



**737-600/700/800/900**

# **POWERPLANT BUILDUP MANUAL**

**Avia Capital Services, LLC**

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**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**Avia Capital Services, LLC  
AKS  
Revision No. 47  
Jun 15/2016**

To: All holders of this Boeing Document D633A106-AKS

Attached is the current revision to the Boeing 737-600/700/800/900 CFM56-7 Powerplant Buildup Manual.

The Powerplant Buildup Manual (PPBU) is furnished either as a printed manual or as digital products, or a combination of the two. This revision replaces all previous digital products. All products are reissued with all obsolete data deleted and all updated pages added.

For printed manuals, changes are indicated on the List of Effective Pages (LEP). The pages which are revised will be identified on the LEP by an R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). The pages that contain customer originated data will be identified on the LEP by a C (COC). Each page in the LEP is identified by Chapter-Section-Subject number, page number and page date.

Pages replaced or made obsolete by this revision should be removed and destroyed.

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**TRANSMITTAL LETTER**



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POWERPLANT BUILDUP MANUAL

### **TEMPORARY REVISIONS**

Remove any Temporary Revisions that have a date earlier than the date of this revision.

Do not remove any Temporary Revisions (TRs) that have a date later than the date of this revision. TRs with a later date will be incorporated into the next revision of the manual (unless they are superseded by a subsequent TR).

A TR status report is sent with each TR. The TR status report has a list of all TRs that were sent for this manual during the last two revision cycles. At the top of the list is the date and time that the list was created.

When you have more than one TR, the TR status report with the latest date and time gives you the most current information.

### **TRANSMITTAL LETTER**

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POWERPLANT BUILDUP MANUAL

| <u>LOCATION OF CHANGE</u> | <u>DESCRIPTION OF CHANGE</u>   |
|---------------------------|--|
| <u>FRONTPARTER</u>        | Changed engine consumable table.<br>Changed special tool table.<br>Changed standard consumable table<br>Changed the data in the Numerical Index to reflect the latest information. |
| <b>CHAPTER 71</b>         |  |
| <b>71-00-02</b>           |  |
| FIGURE 2-1                | Changed a consumable reference.  |
| FIGURE 3-1                | Changed the data to show the preferred part number for COTTER PIN (40).  |
| FIGURE 4-1                | Changed the data for the installation of BRACKET ASSY (400).   |
| FIGURE 5-1                | Changed the data to show the preferred and original configurations for BRACKET ASSY (25).  |
| FIGURE 7-1                | Changed a consumable reference.  |
| FIGURE 9-1                | Changed a consumable reference.  |
| FIGURE 10-1               | Changed a consumable reference.  |
| FIGURE 12-1               | Changed a consumable reference.  |
| FIGURE 13-1               | Changed a consumable reference.  |
| FIGURE 14-1               | Added the new part number for the PRECOOLER CONTROL VALVE (item 75).   |
| FIGURE 15-1               | Changed the data to show the preferred part numbers for BOLT (40) and BOLT (135).  |
| FIGURE 16-1               | Changed a consumable reference.  |
| FIGURE 17-1               | Changed the data to show BOLT (20) and (106).  |
| FIGURE 18-1               | Changed a consumable reference.  |
| FIGURE 21-1               | Added the data to show the part number for the HYDRAULIC PRESSURE HOSE ASSY.   |
|                           | Changed the data to update the instructions to the PPBU manual.  |
| FIGURE 22-1               | Changed a consumable reference.  |
| FIGURE 23-1               | Changed a consumable reference.  |
| FIGURE 24-1               | Changed a consumable reference.  |
| FIGURE 25-1               | Changed a consumable reference.  |
| FIGURE 27-1               | Changed the location of the liter line.<br>Changed the data to show the preferred part number for the VALVE ASSEMBLY (225).<br>Changed the data for the CLAMP (50).                |

## HIGHLIGHTS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

**LOCATION OF CHANGE**

FIGURE 28-1

FIGURE 29-1

FIGURE 31-1

FIGURE 32-2

FIGURE 33-1

**DESCRIPTION OF CHANGE**

Changed the data to show the preferred FIRE DETECTOR INSTALLATION.

Added the new part numbers for the FIRE DETECTOR (items 15, 20).

Changed a consumable reference.

Changed a consumable reference.

Changed a consumable reference.

Changed a consumable reference.

## HIGHLIGHTS



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| Subject/Page                  | Date        | Subject/Page    | Date        | Subject/Page | Date |
|-------------------------------|-------------|-----------------|-------------|--------------|------|
| TITLE PAGE                    |             | NUMERICAL INDEX |             |              |      |
| 1                             | Jun 15/2016 | R 1             | Jun 15/2016 |              |      |
| 2                             | BLANK       | 2               | Jun 15/2016 |              |      |
| TRANSMITTAL LETTER            |             | R 3             | Jun 15/2016 |              |      |
| 1                             | Jun 15/2016 | 4               | Jun 15/2016 |              |      |
| 2                             | Jun 15/2016 | 5               | Jun 15/2016 |              |      |
| HIGHLIGHTS                    |             | R 6             | Jun 15/2016 |              |      |
| 1 thru 2                      | Jun 15/2016 | R 7             | Jun 15/2016 |              |      |
| EFFECTIVE PAGES               |             | R 8             | Jun 15/2016 |              |      |
| 1                             | JUN 15/2016 | R 9             | Jun 15/2016 |              |      |
| 2                             | BLANK       | 10              | Jun 15/2016 |              |      |
| REVISION RECORD               |             | R 11            | Jun 15/2016 |              |      |
| 1                             | Jun 15/2016 | 12              | Jun 15/2016 |              |      |
| 2                             | Jun 15/2016 | R 13            | Jun 15/2016 |              |      |
| RECORD OF TEMPORARY REVISIONS |             | R 14            | Jun 15/2016 |              |      |
| 1                             | Jun 15/2016 | R 15            | Jun 15/2016 |              |      |
| INTRODUCTION                  |             | 16              | Jun 15/2016 |              |      |
| 1                             | Jun 15/2016 | 17              | Jun 15/2016 |              |      |
| 2                             | Jun 15/2016 | 18              | Jun 15/2016 |              |      |
| 3                             | Jun 15/2016 | R 19            | Jun 15/2016 |              |      |
| 4                             | Jun 15/2016 | R 20            | Jun 15/2016 |              |      |
| 5                             | Jun 15/2016 | R 21            | Jun 15/2016 |              |      |
| 6                             | Jun 15/2016 | R 22            | Jun 15/2016 |              |      |
| 7                             | Jun 15/2016 | 23              | Jun 15/2016 |              |      |
| 8                             | Jun 15/2016 | R 24            | Jun 15/2016 |              |      |
| 9                             | Jun 15/2016 | 25              | Jun 15/2016 |              |      |
| 10                            | Jun 15/2016 | R 26            | Jun 15/2016 |              |      |
| 11                            | Jun 15/2016 | 27              | Jun 15/2016 |              |      |
| 12                            | Jun 15/2016 | R 28            | Jun 15/2016 |              |      |
| 13                            | Jun 15/2016 | R 29            | Jun 15/2016 |              |      |
| 14                            | Jun 15/2016 | R 30            | Jun 15/2016 |              |      |
| 15                            | Jun 15/2016 | R 31            | Jun 15/2016 |              |      |
| R 16                          | Jun 15/2016 | 32              | BLANK       |              |      |
| R 17                          | Jun 15/2016 |                 |             |              |      |
| R 18                          | Jun 15/2016 |                 |             |              |      |
| 19                            | Jun 15/2016 |                 |             |              |      |
| 20                            | Jun 15/2016 |                 |             |              |      |
| R 21                          | Jun 15/2016 |                 |             |              |      |
| R 22                          | Jun 15/2016 |                 |             |              |      |
| 23                            | Jun 15/2016 |                 |             |              |      |
| 24                            | Jun 15/2016 |                 |             |              |      |
| 25                            | Jun 15/2016 |                 |             |              |      |
| 26                            | Jun 15/2016 |                 |             |              |      |
| INSTALLATION INDEX            |             |                 |             |              |      |
| 1                             | Jun 15/2016 |                 |             |              |      |
| 2                             | BLANK       |                 |             |              |      |

A = Added, R = Revised, D = Deleted, O = Overflow

## **EFFECTIVE PAGES**



# 737-600/700/800/900 POWERPLANT BUILDUP MANUAL

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## REVISION RECORD



## 737-600/700/800/900 POWERPLANT BUILDUP MANUAL

## REVISION RECORD

2020 RELEASE UNDER E.O. 14176



# 737-600/700/800/900 POWERPLANT BUILDUP MANUAL

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# RECORD OF TEMPORARY REVISIONS



# 737-600/700/800/900 POWERPLANT BUILDUP MANUAL

# RECORD OF TEMPORARY REVISIONS



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**INTRODUCTION**

**1. General**

- A. The 737-600/700/800/900 CFM56-7 series Powerplant Buildup Manual provides procedures for installing a Boeing QEC kit on a CFM56-7 series engine.
- (1) The manual is divided into four major sections: Front Matter, 71-00-02 Powerplant Buildup, 71-00-03 QEC System Tests, and 71-00-04 QEC Inspection/Check.
- (2) Section Front Matter contains these items:
- (a) Description of major characteristics of the powerplant
  - (b) Usage instructions for this manual
  - (c) List of special tools, fixtures, and equipment used in this manual
  - (d) List of vendor names and addresses
  - (e) List of all consumable materials used in this manual
  - (f) A summary of applicable standard practices
  - (g) An index which lists all installation tasks in the manual in alphanumerical sequence by title, and
  - (h) A numerical index which lists all part numbers contained in each installation parts list.
- (3) Section 71-00-02 Powerplant Buildup contains these items:
- (a) An illustrated installation index of all buildup installations in order of accomplishment.
  - (b) Parts lists and procedures to build up a basic engine into a demountable powerplant.
- (4) Section 71-00-03 QEC System Test contains procedures that are used to test the installed components before engine installation on an airplane.
- (5) Section 71-00-04 QEC Inspection/Check contains general inspection/check procedures for QEC components.

- B. Abbreviations and terms used in this manual are defined below as follows:

**Table 1:**

| ABBREVIATION | DEFINITION                          |
|--------------|-------------------------------------|
| AEW&C        | Airborne Early Warning and Control  |
| AGB          | Accessory Gearbox                   |
| ASSY         | Assembly                            |
| BIFUR        | Bifurcation                         |
| BRKT         | Bracket                             |
| BTWN         | Between                             |
| CFMI         | Commercial Fan Moteur International |
| CON          | Consumable                          |
| CONT         | Continued                           |
| CSK          | Countersink/Countersunk             |
| CRES         | Corrosion Resistant Steel           |
| DAC          | Double Annular Combustor            |
| DEL          | Deleted                             |

**INTRODUCTION**



**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

**Table 1: (Continued)**

| ABBREVIATION | DEFINITION                 |
|--------------|----------------------------|
| DET          | Detector, Detection        |
| EEC          | Electronic Engine Control  |
| ENG          | Engine                     |
| FIG          | Figure                     |
| FLG          | Flange                     |
| FTG          | Fitting                    |
| FWD          | Forward                    |
| GSE          | Ground Support Equipment   |
| HMU          | Hydro/Mechanical Unit      |
| HYD          | Hydraulic                  |
| ID           | Inner Diameter             |
| IDG          | Integrated Drive Generator |
| INSTL        | Installation               |
| LH           | Left                       |
| LTD          | Limited                    |
| LPT          | Low Pressure Turbine       |
| LWR          | Lower                      |
| MAX          | Maximum                    |
| OPT          | Optional                   |
| OUTBD        | Outboard                   |
| PRESS        | Pressure                   |
| QAD          | Quick Attach Detach        |
| QEC          | Quick Engine Change (Kit)  |
| QTY          | Quantity                   |
| REF          | Reference                  |
| REG          | Regulator                  |
| REQD         | Required                   |
| RH           | Right                      |
| SAC          | Single Annular Combustor   |
| SYS          | System                     |
| TAI          | Thermal Anti-Ice           |
| TEMP         | Temperature                |
| TOL          | Tool                       |
| UPR          | Upper                      |
| VEN          | Vendor                     |
| W/B          | Wire Bundle                |

## INTRODUCTION



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**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

**Table 2:**

| TERMS:                 | DEFINITION  |
|------------------------|---|
| Basic Engine           | The assembled engine as furnished by the engine manufacturer.             |
| Demountable Powerplant | Basic engine with QEC equipment installed.                                |
| QEC Equipment          | Airframe manufacturer supplied parts installed during powerplant buildup. |
| Run-On Torque          | Torque required to check self-locking features of nuts or nut plates.     |

**2. Description**

A. CFM56-7 Series Basic Engine

- (1) The CFM56-7 series engine is a dual-rotor, axial-flow, high bypass ratio turbofan. A single-stage high pressure turbine drives the 9 stage high pressure compressor. A four stage low pressure turbine drives the integrated front fan and low pressure compressor. The accessory drive system extracts energy from the high pressure, high-speed rotor to drive engine accessories and engine mounted airplane accessories.
- (2) Accessory items pertaining to engine operation such as hydro/mechanical unit, electronic engine control, fuel filter, fuel pump, oil/fuel heat exchanger, oil tank, oil filter, oil pump, starter, and other necessary equipment are supplied and installed by CFMI. Installation procedures for these items are contained in the CFMI CFM56-7 Engine Manual.
- (3) Identification of engine flanges is given in Figure 1.

B. Demountable Powerplant

- (1) The demountable powerplant consists of the CFMI CFM56-7 series basic engine and Boeing furnished QEC kit parts.
- (2) Principal physical characteristics of the powerplant are approximately Figure 2:

**NOTE:** The weights provided below are approximate and should not be used for weight and balance purposes.

**Table 3:**

| ITEM   | WEIGHT               | LENGTH                  | DIAMETER                |
|--|----------------------|-------------------------|-------------------------|
| Basic Engine                                     | 5185 lb<br>(2351 kg) | 121.7 in.<br>(309 cm.)  | 66.1 in.<br>(167.8 cm.) |
| Short Primary Nozzle Assembly                    | 107 lb<br>(48.5 kg)  | 27 in.<br>(68 cm.)      | 38 in.<br>(96 cm.)      |
| Short Primary Plug Assembly                      | 77 lb<br>(35 kg)     | 61.7 in.<br>(156.7 cm.) | 26 in.<br>(66 cm.)      |
| Inlet Cowl                                       | 355 lb<br>(161 kg)   | TBD in.<br>(TBD cm.)    | 89 in.<br>(226 cm.)     |
| Demountable Powerplant (w/<br>Short Nozzle/Plug) | 6620 lb<br>(3002 kg) | 200 in.<br>(508 cm.)    | 89 in.*<br>(226 cm.)    |

\* Maximum diameter.

- (3) Engines and inlet cowls are directly interchangeable between engine positions 1 and 2 on all 737-600/700/800/900 series airplanes.

C. QEC Equipment

# INTRODUCTION



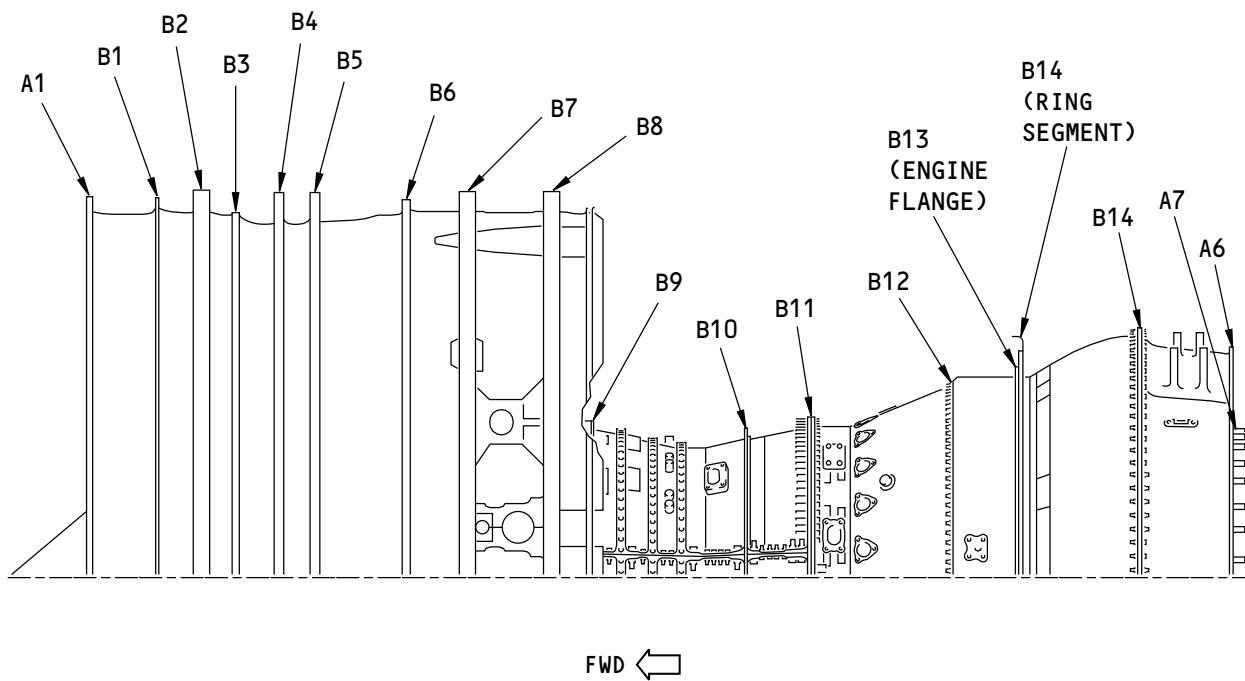
**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

- (1) Accessory items installed on the engine are supplied by Boeing in the form of a QEC (Quick Engine Change) kit. Contact Boeing Customer Services-Spares for the correct kit part/dash number. Procedures for installing this equipment are given in this manual.
- (2) QEC kit parts packaging
  - (a) The QEC kit parts are packaged in a series of tasks identified in the Special Spares Breakdown - Powerplant document issued by Boeing Customer Services - Spares. The task numbers correlate to the figure numbers of 71-00-02. As an example, parts for Figure 8-1 are contained in Task No. 8.
  - (b) Task No. 110 contains all standards and attaching hardware of the QEC kit with the exception of, Figure 2-1, Figure 3-1, and Figure 31-1. For these figures, the standards and attaching hardware will be packaged together with the other Figure/Item hardware. As an example, the standards and attaching hardware for Figure 2-1 are contained in Task No. 2.
- (3) The installations that follow make up a QEC kit:

**Table 4:**

| INSTALLATION          | DWG NUMBER |
|-----------------------|------------|
| ENGINE TO STRUT       | 310A2010   |
| FWD ENGINE MOUNT      | 310A2020   |
| AFT ENGINE MOUNT      | 310A2030   |
| THRUST LINK           | 310A2040   |
| MARKER                | 330A2010   |
| DRAINS                | 332A2100   |
| FUEL SUPPLY HOSE      | 332A2100   |
| IDG PLUMBING          | 332A2100   |
| PNEU BLEED SYSTEM     | 332A2100   |
| WIRE HARNESS          | 332A2200   |
| INLET COWL TAI SYSTEM | 332A2300   |
| PNEU BLEED CONTROLLER | 332A2300   |
| PNEU BLEED DUCT       | 332A2300   |
| START VALVE AND DUCT  | 332A2300   |
| 12 O'CLOCK STRUT      | 332A2370   |
| HYDRAULIC PUMP        | 332A2400   |
| FIRE DETECTION        | 332A2500   |
| IDG                   | 332A2600   |
| BRACKET               | 332A2900   |
| PRIMARY EXHAUST       | 333A2100   |
| INLET                 | 334A2000   |

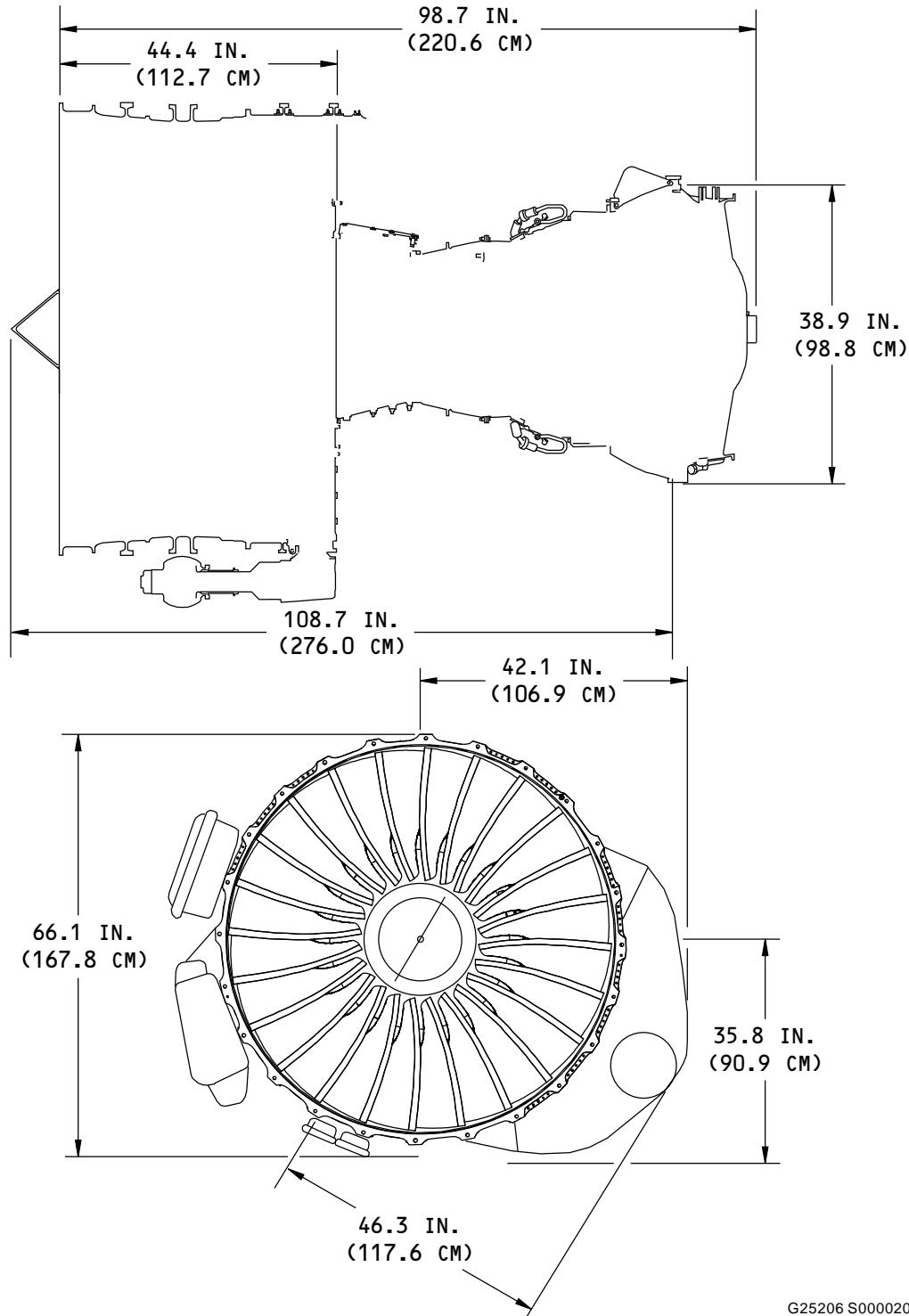
## INTRODUCTION



G25334 S0000208597\_V1

**Engine Flange Locations**  
**Figure 1 (Sheet 1)**

## INTRODUCTION

**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

G25206 S0000208598\_V1

**Bare Engine Dimensions**  
**Figure 2 (Sheet 1)**

# INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**3. Instructions for Using Manual**

**A. Figure and Item Numbers (71-00-02)**

- (1) Figure numbers are assigned to individual segments of build up in a sequential order of accomplishment. Figures in 71-00-02, Powerplant Buildup, utilize a two-part naming nomenclature. The first part is the assigned buildup sequence number. The second part is used to control the configuration. (An exception is Figure 1-1, which is an index figure for 71-00-02.). Please note that if a particular configuration is not applicable to your fleet, it will not be included.
- (2) Item numbers are assigned to parts, wherever possible, in order of installation. The part listing with item numbers and nomenclatures appear on the text pages immediately following the applicable steps for installation of the parts. Unless specified differently, each figure is a complete task and contains its individual set of item numbers.
- (3) Item numbers for consumable materials are assigned a prefix C (e.g. C1). Each of the consumable materials has a unique item number that remains the same throughout each figure. The item number, bulk code number, nomenclature and specification for each consumable material appears on the text page immediately following the applicable steps for the use of that consumable material.
- (4) Item numbers for special tools, fixtures and equipment are assigned a prefix T (e.g. T1). Each of the tools has a unique item number that remains the same throughout each figure. The item number, tool part number and nomenclature for each tool appears on the text page immediately following the applicable steps for the use of that tool.
- (5) Item numbers preceded by a dash (-) in the FIG. ITEM or ITEM NO. column indicates the item is not illustrated.
- (6) Gaps in item numbers are used either for configuration control or for future growth, and does not indicate missing parts.
- (7) This manual uses the indenture system for listing its parts. This system shows the relationship of one part to another. For a given part, the number of indentures defines the relationship of that part to the associated installation, next higher assembly, or components of the part as follows:  
Detail parts, Assembly, or Attaching parts for assembly  
Detail parts for assembly, or Sub-assembly, or Attaching parts for sub-assembly

**B. Locating a Part**

- (1) If a part number is known and it is required to identify the location of the part, find the part number in the Numerical Index in section 71-00-00 and note the section, figure and item number of the part. Locate the item number on the text page of the applicable figure for identification of the part.
- (2) If the part number is not known, but the system or general area on the engine is known, then it may be possible to locate the applicable figure from the alphabetical listing of installations in the Installation Index, 71-00-00, or from the sequential listing in Figure 1-1.
- (3) BCREF( ) - (Boeing Company Ref) part number is a reference number assigned to all part numbers that exceed 15 digits.
  - (a) The actual part number is included in parenthesis after the part name in the nomenclature column.
  - (b) When ordering these parts from Boeing, use either the BCREF( ) part number or the actual part number.

**C. Use of Assembly Procedures**

## **INTRODUCTION**



**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

- (1) Assembly procedures assume the engine is supported on pedestals, adapters, and brackets.
  - (2) Each area of work as illustrated has the instructions and parts list located on the page facing the illustration. The parts required to perform a step are listed immediately following the step.
  - (3) Vendor codes are listed for vendor parts in the parts list to enable identification of the vendors. A list of vendors and their codes and addresses is provided in the Vendor Codes list.
  - (4) All tightening requirements are specified in the applicable steps of the buildup procedures.
  - (5) Consumable materials, such as lubricants, sealants and tape as specified in buildup procedures, are listed in section 71-00-00 with their specification. In addition, if all usage location are required for a consumable, use the table in paragraph () of section 71-00-00 to determine the bulk code. Then use the Numerical Index, section 71-00-00 to find all locations where that consumable is used.
- D. Definitions of part effectiveness terms
- (1) AR - Parts with AR (AS REQUIRED) in the QTY (quantity) column can be used as required.
  - (2) CON - Items with CON (CONSUMABLE) in the UC (usage code) column, and AR (as required) in the QTY (quantity) column, are consumable materials that are used in that figure. Each consumable material's bulk code is listed in the PART NUMBER column and the description and specification are listed in the NOMENCLATURE column. These consumable materials are not part of the QEC kit.
  - (3) DEL - Parts with DEL in the UC (usage code) column and a dash in the QTY (quantity) column should not be used or reinstalled.
  - (4) OPT - Parts with OPT (OPTIONAL) in the NOMENCLATURE column, OPT in the UC (usage code) column and a dash in the QTY (quantity) column, are optional and interchangeable with the same item number listed with a quantity listed in the QTY column. Parts listed with a quantity are preferred and should be used if available.
  - (5) REF - Parts with REF (REFERENCE) in the UC (usage code) column and a dash in the QTY (quantity) column have been identified and installed on an earlier or later sheet or page in the same figure or is a sub-part of an assembly and included for clarification.
  - (6) REPLD BY - Parts with REPLD BY (REPLACED BY) in the NOMENCLATURE column, a LTD (LIMITED) in the UC (usage code) column and a dash in the QTY (quantity) column have been installed on engines delivered on earlier new airplanes and/or have been supplied in earlier QEC kits. These parts are no longer preferred and should not be ordered. Parts having the same item number with a quantity listed in the QTY column are improved designs or are required due to adjacent engine configuration changes and are supplied in current QEC kits.
  - (7) TOL - Parts with TOL (TOOL) in the UC (usage code) column, and a dash in the QTY (quantity) column, are special tools, fixtures and equipment that may be required. These tools are not part of the QEC kit.
  - (8) VEN - Parts with a vendor cage code in the NOMENCLATURE column and/or VEN (VENDOR) in the UC (usage code) column are vendor part number.

**4. Standard Practices**

- A. Before starting engine buildup, read applicable section of manual to become familiar with items to be installed and procedures to be followed.

Also, review the Standard Overhaul Practices Manual (D6-51702) for additional information on standard practices, specifically the following:

## INTRODUCTION



**BOEING**  
**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

**Table 5:**

| <b>Title</b>   | <b>Standard Overhaul Practices Manual Chapter</b> |
|--|---|
| Repair of electrical terminations and electrical bonding areas                             | 20-11-03  |
| Bolt and Nut Installation  | 20-50-01  |
| Installation of Safety Devices   | 20-50-02  |
| Bearing Installation and Retention   | 20-50-03  |
| Installation of Permanent Drill Passage Pin and Plug                                       | 20-50-04  |
| Application of Aluminum Foil and Other Markers   | 20-50-05  |
| Installation of O-Rings and Teflon Seals   | 20-50-06  |
| Lubrication  | 20-50-07  |
| Application of Dry Lubricant   | 20-50-08  |
| Installation of Protective Grommets  | 20-50-09  |
| Application of Stencils, Insignia, Silk Screen, Part Numbering and Identification Markings | 20-50-10  |
| Application of Aerodynamic Smoothing Sealant   | 20-50-11  |
| Application of Adhesives   | 20-50-12  |
| Application of Weather, Fuel Oil, Solvent and Heat Resistant Protective Coatings           | 20-50-13  |
| Cleaners   | 20-60-01  |
| Finishing Materials  | 20-60-02  |
| Lubricants   | 20-60-03  |
| Miscellaneous Materials  | 20-60-04  |

**B. Counter-Sunk (CSK) Washers**

- (1) CSK washers are manufactured with a chamfer on one of the edges of the inside diameter. Position the chamfered edge of the washer against the bottom surface of the bolt head.

**C. Electrical Harness**

- (1) Position electrical harness between connectors to provide equal distribution of support loading on clamps. Maintain sufficient slack at connectors to prevent stress loading the connection.
- (2) Do not wrap tape on the wire bundle under the clamp.
- (3) When connecting to electrical connectors, turn knurled coupling ring while wiggling the backshell assembly. After fully seating the coupling ring, use soft-jawed pliers or a strap wrench to tighten the coupling ring an additional 1/8 turn or until plier slippage occurs Figure 3 (Sheet 1).
- (4) Install protective covers on connectors and receptacles not connected. Lockwire all threaded connectors after installation.
- (5) Boeing-furnished wire bundles shall have a maximum tie spacing of 2 inches.

**D. Clamps**

**(1) Floating Clamps**

- (a) Floating clamps are utilized to establish adequate clearance between tubing, hoses and wire bundles to dampen vibration and prevent chafing.

## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

- (b) Illustrations which show clamping for wire bundles, tubing, and hoses in most cases show floating clamp installations in approximate clamping locations.
- (c) Actual clamp locations may be adjusted from those illustrated and additional clamps may be used to provide required clearances. A minimum clearance of 0.5 inch is desirable, however, 0.2 inch is permissible where 0.5 inch cannot be obtained.

**E. Lockwiring**

- (1) Perform all lockwiring using double twist method per Overhaul Manual 20-50-02 and standard industry practice.
- (2) Use of safety cable in place of lockwire is allowed. Safety cable can only be used with bolts which have center drilled heads. Refer to the applicable installation figures for usage instructions.

**F. Lubrication**

- (1) Lubricate O-ring packings and fittings prior to installation unless specified otherwise.
- (2) Apply grease or anti-seize compound to splines as specified.

**G. Tubes and Fittings**

- (1) Proper alignment must be obtained between fittings and tubing to prevent preloading of lines and assure proper mating of threaded parts.

**Table 6:**

| <b>FLUID TUBING MINIMUM CLEARANCE REQUIREMENTS:<br/>(UNLESS NOTED OTHERWISE)</b>  |   |
|---|---|
| BETWEEN ALL RIGID LINES AND ADJACENT STRUCTURE  |   |
| 0.50 INCH   | - AT NON-SUPPORTED LOCATIONS  |
| 0.10 INCH   | - AT SUPPORTED LOCATIONS (OR THE THICKNESS OF THE SUPPORTING CLAMPS WHEN THE TUBING IS CLAMPED DIRECTLY TO THE SUPPORTING STRUCTURE)          |
| NEAR ANY POSITION OF AN OPERATING MECHANISM   |   |
| 0.50 INCH   | - AT NON-SUPPORTED LOCATIONS  |
| 0.25 INCH   | - AT SUPPORTED LOCATIONS WHEN IT IS EVIDENT THAT NO CHAFING OR INTERFERENCE WILL RESULT   |
| BETWEEN TUBES THAT CROSS OR RUN PARALLEL  |   |
| 0.50 INCH   | - OR THE THICKNESS RESULTING FROM BACK-TO-BACK CLAMPING (ADDITIONAL BACK-TO-BACK CLAMPING MAY BE USED TO MEET MINIMUM CLEARANCE REQUIREMENTS) |
| BETWEEN TUBES AND CONTROL CABLES  |   |
| 0.625 INCH  | - BETWEEN BREAK POINTS OR FAIRLEADS AND CLAMPBLOCK  |
| <b>NOTE:</b> Tubing installations shall be considered supported for a distance of 3 inches from a B-nut that attaches a tube to a rigid piece of equipment. |   |

- (2) Allowable preload shall not exceed the following limits at clamp points when end fittings are attached and torqued.

## INTRODUCTION



**BOEING**  
737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

Table 7:

| Tube Size     | Max. Preload           |
|---------------|------------------------|
| 5/8" & Larger | 20 lbs. (89 newtons)   |
| 1/2"          | 10 lbs. (44.5 newtons) |
| 3/8"          | 5 lbs. (22.2 newtons)  |
| 1/4"          | 3 lbs. (13.3 newtons)  |

- (3) Up to three BACS18AF spacers may be used under support clamp to meet preload limitations.

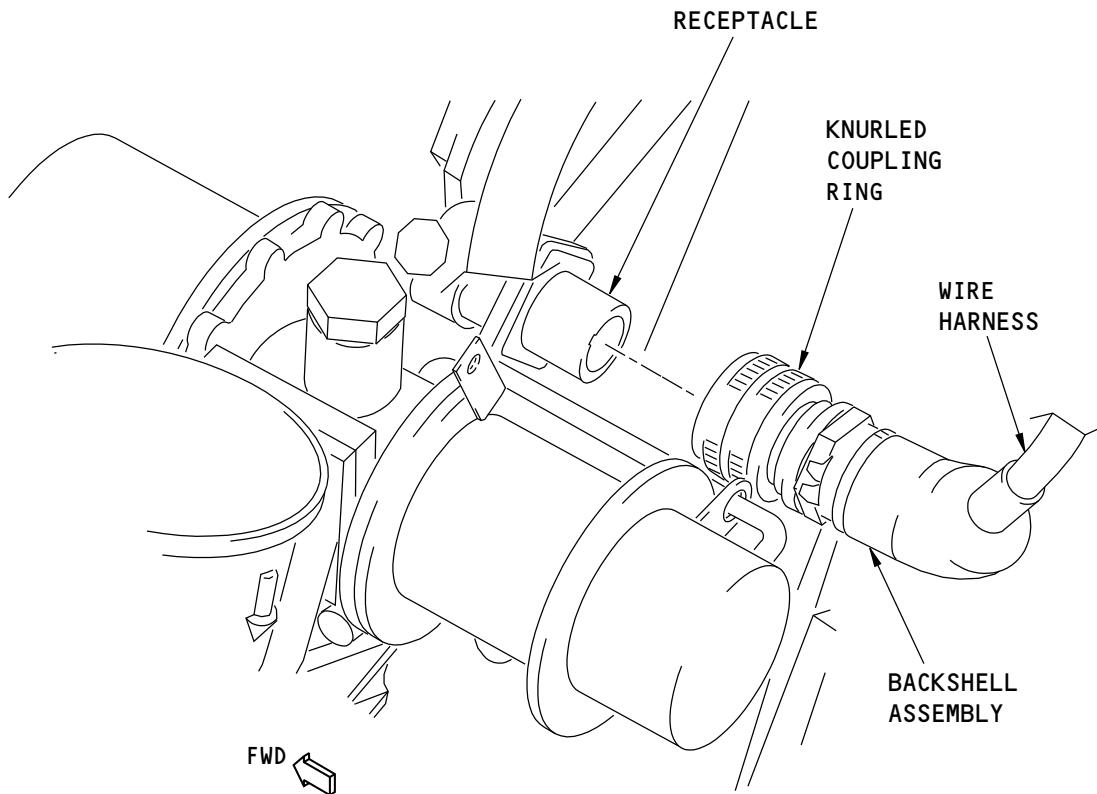
**NOTE:** Ovality of tubes shall not exceed 5% after installation.

H. Tamper-proof "Inspection Verification" seal

- (1) This seal can be used as a visual check of the component after the final torque is applied. It is not required, but its application may be operator policy.
- (2) Make the seal an 1/8-inch wide strip of tamper-proof putty that extends across the junction of the mating parts and continues for 1/2-inch on each side of the mating connection.
  - (a) On tubes, locate the tamper-proof putty to minimize the possibility of the putty entering the tube when the tube is disconnected later.

## INTRODUCTION

**BOEING**  
737-600/700/800/900  
POWERPLANT BUILDUP MANUAL



G25198 S0000208611\_V1

**Wire Harness Connectors**  
**Figure 3 (Sheet 1)**

## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**5. Part Substitution**

- A. Preferred parts are listed first and are applicable to the engine buildup configuration which was installed on the most recent engine configuration to be delivered.
- B. Replaced-by parts should not be used on new engines but may be required for buildup of previous engine configurations.
- C. Optional parts are listed immediately below the preferred part and may be used in place of preferred parts.
- D. Optional parts may be ordered if preferred parts are not available.
- E. Replaced by parts should not be ordered if preferred parts are not available.
- F. The following table lists obsolete part numbers for standard parts. These obsolete parts are no longer preferred and are not shown in the installation procedure.

**Table 8:**

| <b>OBSOLETE<br/>PART NUMBER</b> | <b>PREFERRED<br/>PART NUMBER</b> |
|---------------------------------|----------------------------------|
| AS3236-06                       | BACB30ZF3-06                     |
| AS3236-08                       | BACB30ZF3-08                     |
| AS3236-10                       | BACB30ZF3-10                     |
| AS3236-28                       | BACB30ZF3-28                     |
| AS3237-05                       | BACB30ZF4-05                     |
| AS3237-06                       | BACB30ZF4-06                     |
| AS3237-07                       | BACB30ZF4-07                     |
| AS3237-08                       | BACB30ZF4-08                     |
| AS3237-09                       | BACB30ZF4-09                     |
| AS3237-10                       | BACB30ZF4-10                     |
| AS3237-11                       | BACB30ZF4-11                     |
| AS3237-12                       | BACB30ZF4-12                     |
| AS3237-14                       | BACB30ZF4-14                     |
| AS3237-22                       | BACB30ZF4-22                     |
| AS3237-23                       | BACB30ZF4-23                     |
| AS3237-24                       | BACB30ZF4-24                     |
| AS3237-29                       | BACB30ZF4-29                     |
| AS3237-32                       | BACB30ZF4-32                     |
| AS3237-34                       | BACB30ZF4-34                     |
| AS3510-02( )K                   | BACC13AT3K( )                    |
| BACE21BT0606JN                  | AS4138J0606                      |
| BACE21BT0606T                   | AS4138T0606                      |
| MS21043-3                       | BACN10JC3C                       |
| MS21902-6T                      | AS5230T0606                      |
| MS21902-12T                     | AS5230T1212                      |

## **INTRODUCTION**



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

Table 8: (Continued)

| OBsolete<br>Part Number | Preferred<br>Part Number |
|-------------------------|--------------------------|
| MS21902J6               | AS5230J0606              |
| MS21902K6               | MS21902J6                |
| MS21924J20              | AS1007T2020              |
| MS21924-20T             | AS1007T2020              |
| MS24391J6               | AS5169J06                |
| MS35338-120             | BACW10EC4M               |
| MS35842-12              | BACC10JB034C064          |
| NAS1611-024             | NAS1611-024A             |
| NAS1611-153             | NAS1611-153A             |
| NAS1612-12              | NAS1612-12A              |
| NAS1612-20              | NAS1612-20A              |
| NAS1612-6               | NAS1612-6A               |
| NAS1802-4-16            | BACS12HN4U16             |
| NAS1805-3               | BACN11Z3CK               |
| NAS1805-4               | BACN11Z4CK               |
| NAS1805-6L              | BACN11Z6CD               |
| NAS1805-8P              | BACN11Z8C                |

**6. Customer Originated Material**

- A. Customer originated material, incorporated into the manual at customer request to reflect data or procedures originated by and peculiar to that specific customer, will be permanently identified by the customer's three-letter designator in the space adjacent to the revision bar. In addition, these pages are identified on the List of Effective Pages (LEP) with a special character called a hollow lozenge which is located to the right of the date field. THE BOEING COMPANY does not assume responsibility for the validity and/or the technical accuracy of material so identified. THE BOEING COMPANY will not undertake to test or evaluate in any form the validity or the technical accuracy of the customer-originated material, and the customer shall have the sole and exclusive responsibility for the validity and accuracy of material submitted for incorporation into the manual.
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## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**7. Normal Revision Service**

- A. Aircraft operators who have contracted continuing revision service for this manual receive revisions one time per year dated June 15. Pages which are revised will be so indicated on the list of effective pages by an symbol (R) and identified by both a date and a page code. A revised page may carry a new or the same code and may be dated prior to, the same as, or subsequent to the date of the page it replaces. On each individual page the revised area is indicated by a revision bar on the left margin. Those pages which have not been technically revised, but have been reprinted due to recombination, are so indicated by a revision bar opposite the page number and date.

**8. Temporary Revision Service**

- A. Temporary revision service to this manual will be issued as necessary to alert the customer of configuration changes and to provide advance information prior to the next scheduled revision. Each temporary revision will be incorporated into the next available scheduled revision of the manual, except for "open dated" temporary revisions issued to cover temporary configuration changes, due to e.g., installation of test equipment. These "open dated" temporary revisions will remain active until Boeing has been advised by the customer that the final configuration has been completed.
- B. Each temporary revision will apply to one subject only and will be keyed within this manual so that the temporary revision may be filed facing or to replace the affected pages. Temporary revisions will not be revised.

If changes are required to an existing temporary revision, the temporary revision will be reissued.

**9. Publications Change Requests**

- A. Communications concerning this publication should be directed to Boeing Commercial Airplanes; Attention: Maintenance Engineering Technical Services, M/S 2J-02; P.O. Box 3707, Seattle WA 98124. To facilitate uniform handling and to provide direct routing of your questions to the proper Boeing organization, use of the Publications Change Request (PCR) Form is encouraged. Boeing makes this form available through your publications organization.

## **INTRODUCTION**



**BOEING**  
**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

## 10. Consumable Material Lists

The tables that follow list all of the consumable materials used in this manual.

A separate table will be shown for each different material code. The data in the table is then sorted by the bulk reference number.

- The first set of tables contain all the standard consumable materials.
- The second set of tables contain all the engine consumable materials and will include the engine manufacturers reference number.

**Table 9: Adhesives, Cements, Sealants**

| Reference | Description                                    | Specification                     | Material    | Supplier | Safety Data Sheet |
|-----------|--|-----------------------------------|-------------|----------|-------------------|
| A00027    | Adhesive - Silicone Rubber, 1 Part, RTV        | BAC5010 Type 60                   | RTV 102     | 71984    |                   |
| A00803    | Sealant - Firewall - Hydraulic Fluid Resistant | BMS5-63 Type I                    | Dapco 18-4F | 0V7G8    | 148658            |
| A01076    | Adhesive - Synthetic Rubber                    | BAC5010 Type 93 (BMS5-95 Class B) |             |          |                   |
| A50096    | Sealant - Firewall - Hydraulic Fluid Resistant | BMS5-63 Type II                   |             |          |                   |

**Table 10: Cleaners, Polishes**

| Reference | Description                                  | Specification                    | Material | Supplier | Safety Data Sheet |
|-----------|--|----------------------------------|----------|----------|-------------------|
| B00074    | Solvent - Degreasing                         | MIL-PRF-680 (Supersedes P-D-680) |          |          |                   |
| B00083    | Solvent - VM&P Naphthas                      | ASTM D-3735 Type III             |          |          |                   |
| B00130    | Alcohol - Isopropyl                          | TT-I-735                         |          |          |                   |
| B00571    | Coating - Clear Skydrol Resistant Topcoating | BAC5710 Type 41                  |          |          |                   |

**Table 11: Finishing Materials**

| Reference | Description  | Specification   | Material        | Supplier | Safety Data Sheet |
|-----------|--|-----------------|-----------------|----------|-------------------|
| C00259    | Coating - Chemical And Solvent Resistant Finish, Corrosion Inhibiting Primer | BMS10-11 Type I |                 |          |                   |
| C00944    | Primer - Firewall - Dapco No. 1-100  | BMS5-63 Type I  | Dapco No. 1-100 | 58093    | 016395            |

**Table 12: Lubricants (Oils, Greases, Dry Lubes)**

| Reference | Description  | Specification | Material           | Supplier | Safety Data Sheet |
|-----------|--|---------------|--------------------|----------|-------------------|
| D00006    | Compound - Antiseize Pure Nickel Special - Never-Seez NSBT | BAC5008       | Never-Seez NSBT-8N | 5W425    | 130770            |

# INTRODUCTION



**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

**Table 12: Lubricants (Oils, Greases, Dry Lubes) (Continued)**

| Reference | Description   | Specification                                   | Material                | Supplier                | Safety Data Sheet |
|-----------|---|---|-------------------------|-------------------------|-------------------|
| D00054    | Fluid - Hydraulic Assembly Lubricant - MCS 352B (Formerly Monsanto MCS 352B)                    |   | MCS 352B                | 1CHP6                   | 031367            |
| D00068    | Oil - Aircraft Turbine Engine, Synthetic Base   | MIL-PRF-23699F Class STD (Standard)             |                         |                         |                   |
| D00071    | Oil - Aircraft Turbine Engine, Synthetic Base   | MIL-PRF-7808 Grade 3                            |                         |                         |                   |
| D00153    | Fluid - Hydraulic Fluid, Fire Resistant (Interchangeable And Intermixable With BMS 3-11 Type V) | BMS3-11 Type IV                                 |                         |                         |                   |
| D00173    | Grease - Aircraft and Instrument, Fuel And Oxidizer Resistant                                   | MIL-PRF-27617 (Supersedes MIL-G-27617)          |                         |                         |                   |
| D00254    | Compound - Silicone   | SAE AS8660 (NATO S-736) (Supersedes MIL-S-8660) | DC-4<br>G624<br>PST 525 | 71984<br>0609Y<br>03CA3 | 003270            |
| D00276    | Compound - Silicone (Novagard Silicones - G624)   | SAE AS8660 (Supersedes MIL-S-8660)              | G624                    | 0609Y                   | 003270            |
| D00504    | Grease - Petrolatum   | VV-P-236  |                         |                         |                   |
| D00648    | Lubricant - O-Ring - Syn-Tech NS-6074   |   |                         |                         |                   |
| D50004    | Compound - Antiseize  | BMS3-28   | ARIMATE LF-AS 328       | 81205                   | 049445            |

**Table 13: Miscellaneous Materials**

| Reference | Description   | Specification         | Material        | Supplier | Safety Data Sheet |
|-----------|---|-----------------------|-----------------|----------|-------------------|
| G00251    | Abrasive - Mat, Non-Woven, Non-Metallic   | A-A-58054             |                 |          |                   |
| G01912    | Lockwire - MS20995NC32, Monel - 0.032 Inch (0.8128 mm) Diameter                                       | NASM20995             |                 |          |                   |
| G50043    | Tubing - Fluoroelastomer, Tyco Electronics Viton-3/16-0-SP (Formerly Raychem RT-1146 Tubing)          | AMS-DTL-23053/13      | Viton-3/16-0-SP | 06090    |                   |
| G50044    | Sleeve - Ben-Har Viton 44, 3/16 inch, P/N 3800300503  |                       |                 |          |                   |
| G50365    | Agent - Peelable Parting (AC Products - AC962-73C) Production discontinued, use stock until depleted. |                       | AC962-73C       | 77490    | 114489            |
| G50367    | Agent - Peelable Parting (Aztec Chemical AZ 634-2)  | MIL-PRF-6799, BAC5000 | AZ 634-2        | 0A3C8    | 101850            |

## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**Table 13: Miscellaneous Materials (Continued)**

| Reference | Description   | Specification           | Material     | Supplier | Safety Data Sheet |
|-----------|---|-------------------------|--------------|----------|-------------------|
| G50368    | Agent - Peelable Parting (Rexco Chemical Company - Partail Coverall Film)                       |                         | Partall Film | 17629    | 017140            |
| G50369    | Coating - Alkaline Removable, Water Resistant   | BMS15-12 Type I Class 1 |              |          |                   |
| G50375    | Kit - Safety Cable, 321 CRES - 0.032 Inch (0.81 mm) Diameter, (Contains both Cable and Ferrule) | BACC13AT3K, AMS 5689    | BACC13AT3K   | 70958    |                   |
| G51223    | Marker - Permanent, Felt Tip Pen  | Commercially Available  |              |          |                   |

**Table 14: Lubricants (Oils, Greases, Dry Lubes) - CFM International**

| Reference | Engine Mfr Reference | Description                        | Specification | Material  | Supplier | Safety Data Sheet |
|-----------|----------------------|------------------------------------|---------------|-----------|----------|-------------------|
| D00601    | CP2101               | High-temperature graphite compound | SAE AMS 2518  |           |          |                   |
| D00625    | CP2338               | Grease - Conductive - Brisal OX    |               | Brisal OX | K0680    | 157556            |

## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**11. Tool Lists**

Refer to the tables below for the complete applicability before you use a tool.

The tables that follow show all of the tools that are referred to in this manual.

There is a table for each type of tool. The data in each table is sorted by the GSE requirement identifier.

- The table for Standard Tools shows the standard tools.
- The table for Commercial Tools shows the tools that are commercially available.
- The table for Special Tools shows the tools that are manufactured for specific requirements.
- When there is a fourth table, it shows the airline-specific tools.

**Table 15: Commercial Tools**

| Reference | Description  | Part Number   | Supplier | A/P Effectivity  |
|-----------|--|---------------|----------|--|
| COM-1443  | Jack - Hydraulic, General Low Profile, Capacity: 2000 lbs, Lift: 10 to 44 Inches, or Equivalent Jack Capable of Lifting 300 lbs. | HW93718       | 28047    | 737-600, -700, -700BC, -700BJ, -700C, -700ER, -700QC, -800, -800BJ, -900, -900BJ, -900ER |
|           |  | Opt: W93718   | 36251    | 737-600, -700, -700BC, -700BJ, -700C, -700ER, -700QC, -800, -800BJ, -900, -900BJ, -900ER |
| COM-1568  | Jack - Hydraulic, General Low Profile  | B67563        | 36251    | 737-600, -700, -700BC, -700BJ, -700C, -700ER, -700QC, -800, -800BJ, -900, -900BJ, -900ER |
|           |  | HW93718       | 28047    | 737-600, -700, -700BC, -700BJ, -700C, -700ER, -700QC, -800, -800BJ, -900, -900BJ, -900ER |
|           |  | Opt: W93718   | 36251    | 737-600, -700, -700BC, -700BJ, -700C, -700ER, -700QC, -800, -800BJ, -900, -900BJ, -900ER |
| COM-2060  | Dolly - Nose Cowl, Removal/Installation, CFM56-3 and -7 Engine   | AGSE-T073-G03 | 9M323    | 737-600, -700, -700BC, -700BJ, -700C, -700ER, -700QC, -800, -800BJ, -900, -900BJ, -900ER |

## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**Table 15: Commercial Tools (Continued)**

| Reference | Description | Part Number      | Supplier | A/P Effectivity  |
|-----------|-------------|------------------|----------|--|
|           |             | Opt: AM-1940-400 | 9M323    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |

**Table 16: Special Tools**

| Reference | Description   | Part Number    | Supplier | A/P Effectivity  |
|-----------|---|----------------|----------|--|
| SPL-1634  | Jack Adapter - VSCF and IDG   | C24002-77      | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
|           |   | C24002-78      | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
| SPL-2062  | Sling - Inlet Cowl  | B71040-39      | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
|           |   | Opt: B71040-38 | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
| SPL-2107  | Fixture - Lift, Engine Aft Mount  | C71024-10      | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
|           |   | Opt: C71024-1  | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
| SPL-2165  | Installation/Removal Frame<br>Equipment - Inlet Cowl, CFM56-7<br>Engine | C71027-1       | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |

## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**Table 16: Special Tools (Continued)**

| Reference | Description  | Part Number     | Supplier | A/P Effectivity  |
|-----------|--|-----------------|----------|--|
| SPL-2419  | Equipment - Handling, Primary<br>Exhaust Sleeve and Plug | C78009-72       | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
|           |  | Opt: C78009-38  | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
|           |  | Opt: C78009-39  | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
| SPL-2430  | Hoist - Boom, Ground Based                               | C78026-259      | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |
|           |  | Opt: C78026-161 | 81205    | 737-600, -700, -700BC,<br>-700BJ, -700C,<br>-700ER, -700QC, -800,<br>-800BJ, -900, -900BJ,<br>-900ER |

## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

**12. Supplier List for Consumables and Tools**

The table that follows lists all of the suppliers for the consumable materials and tools used in this manual. The table is sorted by the CAGE code.

**VENDOR CODES**

| <b>Code</b> | <b>Name</b>   |
|-------------|---|
| 00624       | EATON CORPORATION DIV CONVEYANCE SYSTEM DBA AEROSPACE DIV<br>300 S EAST AVE<br>JACKSON, MICHIGAN 49203-1972   |
| 02750       | EATON AEROSPACE ENGINEERED SENSORS<br>15 DURANT AVENUE<br>BETHEL, CONNECTICUT 06801-1901<br>FORMERLY CONSOLIDATED CONTROLS; FORMERLY EATON CORP<br>PRESSURE SENSORS DIV   |
| 03CA3       | POLYSI TECHNOLOGIES INCORPORATED<br>5108 REX MCLEOD<br>SANFORD, NC<br>27330<br>Telephone: 919-775-4989<br>Facsimile: 919-775-2460   |
| 05228       | PTI TECHNOLOGIES INC<br>501 DEL NORTE BLVD<br>OXNARD, CALIFORNIA 93030-7983<br>FORMERLY PUROLATOR TECH; PTI TECH; TEXTRON FILTRATION SYS;<br>FORMERLY IN NEWBURY PARK, CA |
| 06090       | TYCO ELECTRONICS CORPORATION (FORMALLY RAYCHEM CORP.)<br>300 CONSTITUTION DR.<br>MENLO PARK, CA<br>94025-1164<br>Telephone: (650) 361-3333<br>Facsimile: (650) 361-5447   |
| 0609Y       | NOVAGARD SOLUTIONS<br>5109 HAMILTON AVENUE<br>CLEVELAND, OH<br>44114<br>Telephone: 800-380-0138<br>Facsimile: 216-881-6977  |
| 07482       | GENERAL ELECTRIC COMPANY DBA GE DIV GE - AVIATION<br>1 NEUMANN WAY<br>CINCINNATI, OH 45215  |
| 08844       | NORCO, INCORPORATED<br>139 ETHAN ALLEN HIGHWAY<br>RIDGEFIELD, CONNECTICUT 06877   |

**INTRODUCTION**



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| <b>Code</b> | <b>Name</b>  |
|-------------|--|
| 0A3C8       | AZTEC CHEMICAL INCORPORATED<br>10770 LOWER AZUSA ROAD<br>EL MONTE, CA<br>91733<br>Telephone: +1-626-448-9262<br>Facsimile: +1-626-448-9628   |
| 0V7G8       | CYTEC INDUSTRIES INC<br>5 GARRET MOUNTAIN PLZ<br>WOODLAND PARK, NJ<br>07424<br>Telephone: 973-357-3100   |
| 11362       | PARKER-HANNIFIN CORPORATION DIV STRATOFLEX PRODUCTS DIVISION<br>COUPLING BUSINESS UNIT DBA PARKER STRATOFLEX<br>3800 CALLE TECATE<br>CAMARILLO, CA 93012   |
| 14242       | VOSS INDUSTRIES INC<br>2168 WEST 25TH STREET<br>CLEVELAND, OHIO 44113-4115   |
| 15284       | EATON CORPORATION DIV CONVEYANCE SYSTEMS DIVISION DBA FLUID<br>CONVEYANCE<br>11642 OLD BALTIMORE PIKE<br>BELTSVILLE, MARYLAND 20705  |
| 17629       | REXCO CHEMICAL CO<br>879 DAVIS DR SE<br>CONYERS, GA<br>30094-5963<br>Telephone: 770-483-7610<br>Facsimile: 700-483-8550  |
| 1CHP6       | SOLUTIA INC.<br>575 MARYVILLE CENTRE DRIVE<br>SAINT LOUIS, MO<br>63166-6760<br>Telephone: 314-674-3651<br>Facsimile: 314-674-1585  |
| 25693       | WHITTAKER CORP WHITTAKER SAFETY SYSTEMS DIV<br>2731 SYSTRON DRIVE<br>CONCORD, CALIFORNIA 94518-1355<br>FORMERLY IN BERKLEY, CALIF.; LINDBERG, JOHN E VB0124<br>FORMERLY SAFETY SYS DIV SYSTRON DONNER; SYSTRON-DONNER CORP |
| 28047       | HEIN-WERNER CORP. (SNAP-ON TOOLS)<br>2120 PEWAUKEE ROAD<br>2514 181st NE REDMOND, WA 98052<br>WAUKESHA, WI<br>53188-2404<br>Telephone: 414-542-6611<br>Facsimile: 414-464-4298   |

## **INTRODUCTION**



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| <b><u>Code</u></b> | <b><u>Name</u></b>  |
|--------------------|---|
| 36251              | MCNEIL OHIO CORP<br>1 LINCOLN WAY<br>ST. LOUIS, MO<br>63120<br>Telephone: (314) 679-4200/<br>Facsimile: (314) 679-4380/4359   |
| 51563              | ROHR INC<br>FOOT OF H STREET PO BOX 878<br>CHULA VISTA, CALIFORNIA 92012  |
| 58093              | CYTEC ENGINEERED MATERIALS INC.<br>1191 HAWK CIRCLE<br>ANAHEIM, CA<br>92807<br>Telephone: 714-632-8444  |
| 59364              | HONEYWELL INTERNATIONAL INC DBA ENGINES & SYSTEMS DIV<br>1300 WEST WARNER ORAD M/S 1207-2W<br>TEMPE, ARIZONA 85285-2986<br>FORMERLY IN PHOENIX, ARIZONA<br>FORMERLY GARRETT PNEUMATIC SYSTEMS DIV OF GARRETT CORP |
| 5W425              | BOSTIK INC<br>211 BOSTON ST<br>MIDDLETON, MA<br>01949<br>Telephone: 978-777-0100  |
| 60980              | MEGGITT-OREGON INC DBA MEGGITT SILICONE PROD DIV MSP<br>2010 LAFAYETTE AVE P.O. BOX 887<br>MCMINNVILLE, OREGON 97128<br>FORMERLY ELASTOMERIC SILICON PRODUCTS   |
| 62983              | EATON AEROSPACE LLC<br>5353 HIGHLAND DR<br>JACKSON, MS 39206  |
| 70958              | BERGEN CABLE TECHNOLOGIES INC<br>343 KAPLAN DRIVE<br>FAIRFIELD, NJ<br>07004-2510<br>Telephone: 973-276-9596<br>Facsimile: 973-276-9566  |
| 71984              | DOW CORNING CORPORATION<br>P.O. BOX 994 / 2200 WEST SALZBURG ROAD<br>MIDLAND, MI<br>48686-0994<br>Telephone: 1-989-496-4400<br>Facsimile: 1-989-496-6731  |

## **INTRODUCTION**



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| <b>Code</b> | <b>Name</b>   |
|-------------|---|
| 77490       | AC PRODUCTS INCORPORATED (DIVISION OF QUAKER CHEMICAL CORPORATION)<br>172 EAST LA JOLLA STREET<br>One Quaker Park, 901 Hector Street, Conshohocken, PA 19428-0809<br>PLACENTIA, CA<br>92870<br>Telephone: 714-630-7311<br>Facsimile: 714-666-8309   |
| 78570       | TITEFLEX CORP SUB OF BUNDY CORP<br>603 HENDEE STREET PO BOX 90054<br>SPRINGFIELD, MASSACHUSETTS 01139   |
| 78943       | TRIUMPH THERMAL SYSTEMS INC<br>200 RAILROAD STREET<br>FOREST, OHIO 45843-9193<br>FORMERLY UNITED AIRCRAFT PRODUCTS<br>FORMERLY PARKER HANNIFIN CORP. UNITED AIRCRAFT PRODUCTS DIV.  |
| 81205       | THE BOEING COMPANY<br>17930 INTERNATIONAL BLVD. SOUTH<br>SEATAC, WA<br>98188-4321<br>Telephone: 206-662-6650<br>Facsimile: 206-662-7145   |
| 83930       | ADEL WIGGINS GROUP<br>5000 TRIGGS STREET<br>LOS ANGELES, CALIFORNIA 90022-4833<br>FORMERLY ADEL PROD DIV OF DELAVAL TURBINE CALIF INC;<br>FORMERLY EXACTO IND V72285; FORMERLY DELAVAL ADEL FSTN DIV<br>FORMERLY TRANSAMERICA DELAVAL ADEL FTNRS DIV; FORMERLY IMO<br>DELAVAL IN HUNTINGTON, WV |
| 84971       | KIRKHILL-TA CO DIV TA AEROSPACE DBA TA DIVISION<br>28065 FRANKLIN PKWY<br>VALENCIA, CA 91355  |
| 96941       | UNISON INDUSTRIES LLC DBA ELANO DIV<br>2455 DAYTON-XENIA RD<br>DAYTON, OH 45434   |
| 97393       | SHUR-LOK COMPANY DBA SPS FASTENER DIVISION A PCC COMPANY DIV<br>SPS FASTENER DIVISION<br>2541 WHITE RD<br>IRVINE, CA 92614  |
| 98441       | STRATOFLEX AEROSPACE MILITARY CONNECTOR DIV<br>220 ROBERTS CUT-OFF<br>FT. WORTH, TEXAS 76114<br>FORMERLY STRATOFLEX INC; PARKER-HANNIFIN FLUID CONN GROUP;<br>FORMERLY PARKER-HANNIFIN FLUID PWR DIV V82271   |
| 99167       | HAMILTON SUNDSTRAND CORPORATION<br>4747 HARRISON AVE<br>ROCKFORD, IL 61108  |

## INTRODUCTION



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| <b>Code</b> | <b>Name</b>  |
|-------------|--|
| 99755       | FMH INVESTOR GROUP<br>17072 DAIMLER STREET<br>IRVINE, CALIFORNIA 92614-4541<br>FORMERLY FLEXIBLE METAL HOSE MFG CO   |
| 9M323       | ADVANCED GROUND SYSTEMS ENGINEERING CORP (AGSE)<br>10805 PAINTER AVENUE<br>SANTA FE SPRINGS, CA<br>90670<br>Telephone: (562) 906-9300<br>Facsimile: (562) 906-9308 |
| K0680       | ROLLS-ROYCE PLC<br>MOOR LANE<br>FOR 717 CONTACT 49-337-086-1479<br>DERBY, --<br>DE24-8BJ<br>Telephone: (44)1332-242424<br>Facsimile: (44) 1332-2499367             |

## **INTRODUCTION**



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

INSTALLATION INDEX (ALPHA/NUMERICAL ORDER)

| FIGURE TITLE                                       | LOCATION |      |
|--|----------|------|
|  | SUBJECT  | FIG  |
| AFT ENGINE MOUNT INSTALLATION                      | 71-00-02 | 3-1  |
| BLEED CONTROL SYSTEM INSTALLATION - LOWER          | 71-00-02 | 15-1 |
| BLEED CONTROL SYSTEM INSTALLATION - UPPER          | 71-00-02 | 17-1 |
| BLEED CONTROLLER INSTALLATION                      | 71-00-02 | 14-1 |
| BLEED DUCT INSTALLATION - LOWER 5TH- AND 9TH-STAGE | 71-00-02 | 16-1 |
| BLEED DUCT INSTALLATION - UPPER 5TH- AND 9TH-STAGE | 71-00-02 | 18-1 |
| BRACKET INSTALLATION - LEFT SIDE CORE CASE         | 71-00-02 | 7-1  |
| BRACKET INSTALLATION - LOWER LEFT FAN CASE         | 71-00-02 | 5-1  |
| BRACKET INSTALLATION - RIGHT SIDE CORE CASE        | 71-00-02 | 8-1  |
| BRACKET INSTALLATION - RIGHT SIDE FAN CASE         | 71-00-02 | 6-1  |
| BRACKET INSTALLATION - UPPER LEFT FAN CASE         | 71-00-02 | 4-1  |
| DRAINS INSTL - LEFT SIDE FAN CASE                  | 71-00-02 | 9-1  |
| DRAINS INSTL - RIGHT SIDE FAN CASE                 | 71-00-02 | 10-1 |
| FIRE/OVERHEAT DETECTOR INSTALLATION                | 71-00-02 | 28-1 |
| FORWARD ENGINE MOUNT INSTALLATION                  | 71-00-02 | 2-1  |
| FUEL SUPPLY HOSE INSTALLATION                      | 71-00-02 | 12-1 |
| HYDRAULIC PLUMBING INSTALLATION                    | 71-00-02 | 21-1 |
| HYDRAULIC PUMP INSTALLATION (VICKERS)              | 71-00-02 | 20-1 |
| IDG AIR/OIL COOLER INSTALLATION                    | 71-00-02 | 23-1 |
| IDG PLUMBING INSTALLATION                          | 71-00-02 | 24-1 |
| INLET COWL INSTALLATION                            | 71-00-02 | 33-1 |
| INLET COWL TAI SYSTEM INSTALLATION                 | 71-00-02 | 27-1 |
| INTEGRATED DRIVE GENERATOR INSTALLATION            | 71-00-02 | 22-1 |
| MARKERS INSTALLATION                               | 71-00-02 | 30-1 |
| PRIMARY EXHAUST INSTALLATION                       | 71-00-02 | 32-2 |
| STARTER VALVE AND DUCT INSTALLATION                | 71-00-02 | 25-1 |
| THRUST LINK INSTALLATION                           | 71-00-02 | 31-1 |
| W1062 WIRE BUNDLE INSTALLATION                     | 71-00-02 | 29-1 |
| 12 O'CLOCK STRUT INSTALLATION                      | 71-00-02 | 13-1 |

**INSTALLATION INDEX**



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

NUMERICAL INDEX

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| BACN10YR3C   |                     | 71-00-02 | 28-1 | 365  | -   |
| B00130       |                     | 71-00-02 | 28-1 | C1   | AR  |
| MS122902     |                     | 71-00-02 | 28-1 | 368  | -   |
| MS122902     |                     | 71-00-02 | 28-1 | 468  | -   |
| MS21043-3    |                     | 71-00-02 | 28-1 | 365  | -   |
| AE713733-1   |                     | 71-00-02 | 12-1 | 10   | 1   |
| AM-1940-400  |                     | 71-00-02 | 33-1 | T2   | -   |
| AS1007T2020  |                     | 71-00-02 | 20-1 | 55   | 1   |
| AS1895-1-350 |                     | 71-00-02 | 16-1 | 180  | 1   |
| AS1895-1-350 |                     | 71-00-02 | 16-1 | 210  | 1   |
| AS1895-1-350 |                     | 71-00-02 | 18-1 | 55   | 1   |
| AS1895-1-350 |                     | 71-00-02 | 18-1 | 110  | 1   |
| AS1895-4-175 |                     | 71-00-02 | 16-1 | 320  | 1   |
| AS1895-4-175 |                     | 71-00-02 | 27-1 | 260  | 1   |
| AS1895-4-200 |                     | 71-00-02 | 27-1 | 235  | 1   |
| AS1895-4-200 |                     | 71-00-02 | 27-1 | 305  | 1   |
| AS1895-4-200 |                     | 71-00-02 | 27-1 | 380  | 1   |
| AS1895-4-200 |                     | 71-00-02 | 33-1 | 100  | -   |
| AS1895-4-325 |                     | 71-00-02 | 25-1 | 110  | 1   |
| AS1895-4-350 |                     | 71-00-02 | 16-1 | 260  | 1   |
| AS1895-4-350 |                     | 71-00-02 | 16-1 | 310  | 2   |
| AS1895-4-400 |                     | 71-00-02 | 14-1 | 120  | 1   |
| AS1895-4-450 |                     | 71-00-02 | 18-1 | 155  | 1   |
| AS1895-7-175 |                     | 71-00-02 | 16-1 | 315  | 1   |
| AS1895-7-175 |                     | 71-00-02 | 27-1 | 255  | 1   |
| AS1895-7-200 |                     | 71-00-02 | 27-1 | 230  | 1   |
| AS1895-7-200 |                     | 71-00-02 | 27-1 | 300  | 1   |
| AS1895-7-200 |                     | 71-00-02 | 27-1 | 375  | 1   |
| AS1895-7-200 |                     | 71-00-02 | 33-1 | 50   | -   |
| AS1895-7-300 |                     | 71-00-02 | 25-1 | 180  | 1   |
| AS1895-7-300 |                     | 71-00-02 | 25-1 | 255  | 1   |
| AS1895-7-300 |                     | 71-00-02 | 25-1 | 300  | 1   |
| AS1895-7-325 |                     | 71-00-02 | 25-1 | 105  | 1   |

**NUMERICAL INDEX**



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| AS1895-7-350 |                     | 71-00-02 | 16-1 | 175  | 1   |
| AS1895-7-350 |                     | 71-00-02 | 16-1 | 205  | 1   |
| AS1895-7-350 |                     | 71-00-02 | 16-1 | 255  | 1   |
| AS1895-7-350 |                     | 71-00-02 | 16-1 | 305  | 2   |
| AS1895-7-350 |                     | 71-00-02 | 18-1 | 50   | 1   |
| AS1895-7-350 |                     | 71-00-02 | 18-1 | 105  | 1   |
| AS1895-7-400 |                     | 71-00-02 | 14-1 | 115  | 1   |
| AS1895-7-450 |                     | 71-00-02 | 18-1 | 150  | 1   |
| AS1895/1-350 |                     | 71-00-02 | 16-1 | 180  | -   |
| AS1895/1-350 |                     | 71-00-02 | 16-1 | 210  | -   |
| AS1895/1-350 |                     | 71-00-02 | 18-1 | 55   | -   |
| AS1895/1-350 |                     | 71-00-02 | 18-1 | 110  | -   |
| AS1895/4-175 |                     | 71-00-02 | 16-1 | 320  | -   |
| AS1895/4-175 |                     | 71-00-02 | 27-1 | 260  | -   |
| AS1895/4-200 |                     | 71-00-02 | 27-1 | 235  | -   |
| AS1895/4-200 |                     | 71-00-02 | 27-1 | 305  | -   |
| AS1895/4-200 |                     | 71-00-02 | 27-1 | 380  | -   |
| AS1895/4-200 |                     | 71-00-02 | 33-1 | 100  | -   |
| AS1895/4-325 |                     | 71-00-02 | 25-1 | 110  | -   |
| AS1895/4-350 |                     | 71-00-02 | 16-1 | 260  | -   |
| AS1895/4-350 |                     | 71-00-02 | 16-1 | 310  | -   |
| AS1895/4-400 |                     | 71-00-02 | 14-1 | 120  | -   |
| AS1895/4-450 |                     | 71-00-02 | 18-1 | 155  | -   |
| AS1895/7-175 |                     | 71-00-02 | 16-1 | 315  | -   |
| AS1895/7-175 |                     | 71-00-02 | 27-1 | 255  | -   |
| AS1895/7-200 |                     | 71-00-02 | 27-1 | 230  | -   |
| AS1895/7-200 |                     | 71-00-02 | 27-1 | 300  | -   |
| AS1895/7-200 |                     | 71-00-02 | 27-1 | 375  | -   |
| AS1895/7-200 |                     | 71-00-02 | 33-1 | 50   | -   |
| AS1895/7-300 |                     | 71-00-02 | 25-1 | 180  | -   |
| AS1895/7-300 |                     | 71-00-02 | 25-1 | 255  | -   |
| AS1895/7-300 |                     | 71-00-02 | 25-1 | 300  | -   |
| AS1895/7-325 |                     | 71-00-02 | 25-1 | 105  | -   |
| AS1895/7-350 |                     | 71-00-02 | 16-1 | 175  | -   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| AS1895/7-350 |                     | 71-00-02 | 16-1 | 205  | -   |
| AS1895/7-350 |                     | 71-00-02 | 16-1 | 255  | -   |
| AS1895/7-350 |                     | 71-00-02 | 16-1 | 305  | -   |
| AS1895/7-350 |                     | 71-00-02 | 18-1 | 50   | -   |
| AS1895/7-350 |                     | 71-00-02 | 18-1 | 105  | -   |
| AS1895/7-400 |                     | 71-00-02 | 14-1 | 115  | -   |
| AS1895/7-450 |                     | 71-00-02 | 18-1 | 150  | -   |
| AS3209-216   |                     | 71-00-02 | 22-1 | 55   | -   |
| AS3485-09    |                     | 71-00-02 | 14-1 | 110  | 4   |
| AS3485-09    |                     | 71-00-02 | 25-1 | 235  | 1   |
| AS3485-09    |                     | 71-00-02 | 27-1 | 360  | 1   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 20   | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 90   | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 115  | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 290  | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 380  | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 565  | 1   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 610  | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 670  | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 720  | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 785  | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 815  | 2   |
| AS3485-10    |                     | 71-00-02 | 4-1  | 840  | 2   |
| AS3485-10    |                     | 71-00-02 | 5-1  | 20   | 3   |
| AS3485-10    |                     | 71-00-02 | 5-1  | 40   | -   |
| AS3485-10    |                     | 71-00-02 | 5-1  | 40   | 4   |
| AS3485-10    |                     | 71-00-02 | 5-1  | 165  | 2   |
| AS3485-10    |                     | 71-00-02 | 5-1  | 195  | 3   |
| AS3485-10    |                     | 71-00-02 | 5-1  | 215  | 3   |
| AS3485-10    |                     | 71-00-02 | 5-1  | 240  | 2   |
| AS3485-10    |                     | 71-00-02 | 5-1  | 265  | 2   |
| AS3485-10    |                     | 71-00-02 | 6-1  | 90   | 2   |
| AS3485-10    |                     | 71-00-02 | 6-1  | 140  | 2   |
| AS3485-10    |                     | 71-00-02 | 6-1  | 190  | 1   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|-------------|---------------------|----------|------|------|-----|
|             |                     | SUBJECT  | FIG  | ITEM |     |
| AS3485-10   |                     | 71-00-02 | 6-1  | 365  | 1   |
| AS3485-10   |                     | 71-00-02 | 6-1  | 425  | 2   |
| AS3485-10   |                     | 71-00-02 | 6-1  | 465  | 2   |
| AS3485-10   |                     | 71-00-02 | 7-1  | 185  | 3   |
| AS3485-10   |                     | 71-00-02 | 7-1  | 235  | 2   |
| AS3485-10   |                     | 71-00-02 | 7-1  | 310  | 2   |
| AS3485-10   |                     | 71-00-02 | 7-1  | 360  | 2   |
| AS3485-10   |                     | 71-00-02 | 8-1  | 35   | 1   |
| AS3485-10   |                     | 71-00-02 | 9-1  | 25   | 1   |
| AS3485-10   |                     | 71-00-02 | 9-1  | 45   | 1   |
| AS3485-10   |                     | 71-00-02 | 9-1  | 90   | 1   |
| AS3485-10   |                     | 71-00-02 | 9-1  | 120  | 1   |
| AS3485-10   |                     | 71-00-02 | 9-1  | 165  | 2   |
| AS3485-10   |                     | 71-00-02 | 9-1  | 260  | 2   |
| AS3485-10   |                     | 71-00-02 | 10-1 | 20   | 2   |
| AS3485-10   |                     | 71-00-02 | 10-1 | 45   | 2   |
| AS3485-10   |                     | 71-00-02 | 10-1 | 65   | 2   |
| AS3485-10   |                     | 71-00-02 | 10-1 | 95   | 1   |
| AS3485-10   |                     | 71-00-02 | 10-1 | 120  | 1   |
| AS3485-10   |                     | 71-00-02 | 10-1 | 145  | 2   |
| AS3485-10   |                     | 71-00-02 | 16-1 | 30   | 1   |
| AS3485-10   |                     | 71-00-02 | 16-1 | 65   | 1   |
| AS3485-10   |                     | 71-00-02 | 16-1 | 420  | 1   |
| AS3485-10   |                     | 71-00-02 | 16-1 | 470  | 1   |
| AS3485-10   |                     | 71-00-02 | 17-1 | 118  | 1   |
| AS3485-10   |                     | 71-00-02 | 21-1 | 155  | 1   |
| AS3485-10   |                     | 71-00-02 | 21-1 | 242  | 1   |
| AS3485-10   |                     | 71-00-02 | 24-1 | 165  | 2   |
| AS3485-10   |                     | 71-00-02 | 25-1 | 80   | 2   |
| AS3485-10   |                     | 71-00-02 | 25-1 | 145  | 2   |
| AS3485-10   |                     | 71-00-02 | 27-1 | 205  | 2   |
| AS3485-10   |                     | 71-00-02 | 27-1 | 270  | 3   |
| AS3485-10   |                     | 71-00-02 | 27-1 | 340  | 2   |
| AS3485-10   |                     | 71-00-02 | 28-1 | 290  | 1   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER    | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|----------------|---------------------|----------|------|------|-----|
|                |                     | SUBJECT  | FIG  | ITEM |     |
| AS3485-10      |                     | 71-00-02 | 29-1 | 35   | 4   |
| AS3485-10      |                     | 71-00-02 | 33-1 | 140  | 1   |
| AS3485-10      |                     | 71-00-02 | 33-1 | 265  | 1   |
| AS3485-11      |                     | 71-00-02 | 22-1 | 30   | 3   |
| AS3485-11      |                     | 71-00-02 | 22-1 | 110  | 1   |
| AS3485-11      |                     | 71-00-02 | 22-1 | 125  | 1   |
| AS3485-12      |                     | 71-00-02 | 5-1  | 300  | 1   |
| AS3485-12      |                     | 71-00-02 | 16-1 | 535  | 1   |
| AS4138J0606    |                     | 71-00-02 | 27-1 | 125  | 1   |
| AS4138J0606    |                     | 71-00-02 | 27-1 | 140  | 1   |
| AS4138T0606    |                     | 71-00-02 | 21-1 | 100  | 1   |
| AS5169J06      |                     | 71-00-02 | 18-1 | 35   | 1   |
| AS5230J0606    |                     | 71-00-02 | 27-1 | 130  | 1   |
| AS5230T0606    |                     | 71-00-02 | 20-1 | 80   | 1   |
| AS5230T0606    |                     | 71-00-02 | 21-1 | 30   | 1   |
| AS5230T1212    |                     | 71-00-02 | 20-1 | 10   | 1   |
| A00027         |                     | 71-00-02 | 4-1  | C6   | AR  |
| A00027         |                     | 71-00-02 | 27-1 | C6   | AR  |
| A00803         |                     | 71-00-02 | 4-1  | C4   | AR  |
| A00803         |                     | 71-00-02 | 13-1 | C3   | AR  |
| A00803         |                     | 71-00-02 | 27-1 | C4   | AR  |
| A01076         |                     | 71-00-02 | 4-1  | C9   | AR  |
| A50096         |                     | 71-00-02 | 4-1  | C5   | AR  |
| A50096         |                     | 71-00-02 | 13-1 | C4   | AR  |
| A50096         |                     | 71-00-02 | 27-1 | C5   | AR  |
| BACB28AK03-027 |                     | 71-00-02 | 4-1  | 885  | 1   |
| BACB28AK04-030 |                     | 71-00-02 | 16-1 | 55   | 1   |
| BACB28AK04-030 |                     | 71-00-02 | 16-1 | 410  | 1   |
| BACB28AK04-030 |                     | 71-00-02 | 16-1 | 460  | 1   |
| BACB28AK04-030 |                     | 71-00-02 | 25-1 | 70   | 2   |
| BACB28AK04-030 |                     | 71-00-02 | 25-1 | 135  | 2   |
| BACB28AK04-030 |                     | 71-00-02 | 27-1 | 195  | 2   |
| BACB28AK04-030 |                     | 71-00-02 | 27-1 | 330  | 2   |
| BACB28AK04-042 |                     | 71-00-02 | 16-1 | 20   | 1   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER     | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|-----------------|---------------------|----------|------|------|-----|
|                 |                     | SUBJECT  | FIG  | ITEM |     |
| BACB28AK06-040  |                     | 71-00-02 | 16-1 | 525  | 1   |
| BACB28AK06-055  |                     | 71-00-02 | 16-1 | 525  | -   |
| BACB28BA0608060 |                     | 71-00-02 | 5-1  | 290  | 1   |
| BACB30LE3U18    |                     | 71-00-02 | 4-1  | 875  | 1   |
| BACB30LE4HU1    |                     | 71-00-02 | 7-1  | 30   | 1   |
| BACB30LE4HU1    |                     | 71-00-02 | 7-1  | 50   | 2   |
| BACB30LE4HU2    |                     | 71-00-02 | 7-1  | 31   | 1   |
| BACB30LE4K12    |                     | 71-00-02 | 5-1  | 180  | 3   |
| BACB30LE4K4     |                     | 71-00-02 | 13-1 | 215  | 2   |
| BACB30LE4K6     |                     | 71-00-02 | 5-1  | 135  | 2   |
| BACB30LE4K6     |                     | 71-00-02 | 13-1 | 210  | -   |
| BACB30LE4K6     |                     | 71-00-02 | 13-1 | 210  | 2   |
| BACB30LE4K8     |                     | 71-00-02 | 13-1 | 215  | -   |
| BACB30LE5K14    |                     | 71-00-02 | 22-1 | 100  | 1   |
| BACB30LE5K8     |                     | 71-00-02 | 22-1 | 20   | 3   |
| BACB30LE5K8     |                     | 71-00-02 | 22-1 | 115  | 1   |
| BACB30LE5U6     |                     | 71-00-02 | 4-1  | 955  | 2   |
| BACB30LE5U6     |                     | 71-00-02 | 6-1  | 230  | 2   |
| BACB30LE6K14    |                     | 71-00-02 | 5-1  | 280  | 1   |
| BACB30LH3U4     |                     | 71-00-02 | 14-1 | 105  | 4   |
| BACB30LT4U2     |                     | 71-00-02 | 32-2 | 30   | -   |
| BACB30NM4K11    |                     | 71-00-02 | 4-1  | 395  | 2   |
| BACB30NM4K3     |                     | 71-00-02 | 4-1  | 455  | 1   |
| BACB30NM4K5     |                     | 71-00-02 | 4-1  | 630  | 1   |
| BACB30NM4K6     |                     | 71-00-02 | 5-1  | 30   | -   |
| BACB30NM4K6     |                     | 71-00-02 | 5-1  | 30   | 4   |
| BACB30NM4K6     |                     | 71-00-02 | 21-1 | 145  | 1   |
| BACB30NM4K7     |                     | 71-00-02 | 4-1  | 655  | 2   |
| BACB30NM4K7     |                     | 71-00-02 | 5-1  | 10   | 3   |
| BACB30NM4K7     |                     | 71-00-02 | 5-1  | 205  | 3   |
| BACB30NM4K7     |                     | 71-00-02 | 5-1  | 230  | 2   |
| BACB30NN4K11    |                     | 71-00-02 | 13-1 | 250  | -   |
| BACB30NN4K16    |                     | 71-00-02 | 13-1 | 110  | 2   |
| BACB30NN4K18    |                     | 71-00-02 | 13-1 | 105  | 4   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER    | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|----------------|---------------------|----------|------|------|-----|
|                |                     | SUBJECT  | FIG  | ITEM |     |
| BACB30NN4K6    |                     | 71-00-02 | 13-1 | 100  | 6   |
| BACB30NN4K6    |                     | 71-00-02 | 13-1 | 250  | 2   |
| BACB30PN10-19  |                     | 71-00-02 | 2-1  | 100  | -   |
| BACB30PN10-19M |                     | 71-00-02 | 2-1  | 100  | 4   |
| BACB30PN14-32M |                     | 71-00-02 | 3-1  | 100  | 4   |
| BACB30PN4-10   |                     | 71-00-02 | 32-2 | 80   | 3   |
| BACB30PN4-10   |                     | 71-00-02 | 32-2 | 120  | 3   |
| BACB30PN4-14   |                     | 71-00-02 | 16-1 | 40   | 1   |
| BACB30PN4-14   |                     | 71-00-02 | 16-1 | 400  | 1   |
| BACB30PN4-14   |                     | 71-00-02 | 16-1 | 450  | 1   |
| BACB30PN4-14   |                     | 71-00-02 | 25-1 | 50   | 2   |
| BACB30PN4-14   |                     | 71-00-02 | 25-1 | 125  | 2   |
| BACB30PN4-14   |                     | 71-00-02 | 27-1 | 175  | 2   |
| BACB30PN4-14   |                     | 71-00-02 | 27-1 | 320  | 2   |
| BACB30PN4-16   |                     | 71-00-02 | 16-1 | 5    | 1   |
| BACB30PN4-6    |                     | 71-00-02 | 32-2 | 160  | 85  |
| BACB30PN4H7    |                     | 71-00-02 | 13-1 | 15   | 4   |
| BACB30PN5H3    |                     | 71-00-02 | 16-1 | 100  | 4   |
| BACB30PN6C22   |                     | 71-00-02 | 16-1 | 500  | 1   |
| BACB30PN6C24   |                     | 71-00-02 | 16-1 | 500  | -   |
| BACB30US4-10   |                     | 71-00-02 | 32-2 | 80   | -   |
| BACB30US4-10   |                     | 71-00-02 | 32-2 | 120  | -   |
| BACB30US4-6    |                     | 71-00-02 | 32-2 | 160  | -   |
| BACB30US8K29   |                     | 71-00-02 | 33-1 | 75   | 24  |
| BACB30VF4K3    |                     | 71-00-02 | 13-1 | 60   | 2   |
| BACB30ZF3-06   |                     | 71-00-02 | 25-1 | 225  | 1   |
| BACB30ZF3-06   |                     | 71-00-02 | 27-1 | 350  | 1   |
| BACB30ZF3-08   |                     | 71-00-02 | 27-1 | 70   | -   |
| BACB30ZF3-08   |                     | 71-00-02 | 27-1 | 70   | 2   |
| BACB30ZF3-09   |                     | 71-00-02 | 14-1 | 205  | 3   |
| BACB30ZF3-10   |                     | 71-00-02 | 14-1 | 200  | 1   |
| BACB30ZF3-28   |                     | 71-00-02 | 14-1 | 15   | 3   |
| BACB30ZF4-05   |                     | 71-00-02 | 15-1 | 40   | -   |
| BACB30ZF4-05   |                     | 71-00-02 | 15-1 | 135  | -   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| BACB30ZF4-05 |                     | 71-00-02 | 17-1 | 240  | -   |
| BACB30ZF4-06 |                     | 71-00-02 | 4-1  | 120  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 4-1  | 365  | -   |
| BACB30ZF4-06 |                     | 71-00-02 | 4-1  | 385  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 4-1  | 615  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 6-1  | 330  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 7-1  | 105  | 5   |
| BACB30ZF4-06 |                     | 71-00-02 | 7-1  | 130  | 4   |
| BACB30ZF4-06 |                     | 71-00-02 | 7-1  | 280  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 7-1  | 330  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 8-1  | 130  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 10-1 | 180  | 1   |
| BACB30ZF4-06 |                     | 71-00-02 | 15-1 | 40   | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 15-1 | 135  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 17-1 | 20   | 1   |
| BACB30ZF4-06 |                     | 71-00-02 | 17-1 | 106  | 1   |
| BACB30ZF4-06 |                     | 71-00-02 | 17-1 | 240  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 21-1 | 130  | 1   |
| BACB30ZF4-06 |                     | 71-00-02 | 21-1 | 180  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 24-1 | 60   | 1   |
| BACB30ZF4-06 |                     | 71-00-02 | 24-1 | 115  | 3   |
| BACB30ZF4-06 |                     | 71-00-02 | 24-1 | 160  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 24-1 | 215  | 3   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 25   | 4   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 50   | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 55   | 1   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 150  | 4   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 175  | 8   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 275  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 300  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 302  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 400  | -   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 400  | 2   |
| BACB30ZF4-06 |                     | 71-00-02 | 28-1 | 425  | 1   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| BACB30ZF4-06 |                     | 71-00-02 | 29-1 | 55   | 3   |
| BACB30ZF4-07 |                     | 71-00-02 | 5-1  | 335  | -   |
| BACB30ZF4-07 |                     | 71-00-02 | 7-1  | 155  | 2   |
| BACB30ZF4-07 |                     | 71-00-02 | 7-1  | 205  | 3   |
| BACB30ZF4-07 |                     | 71-00-02 | 7-1  | 305  | 2   |
| BACB30ZF4-07 |                     | 71-00-02 | 7-1  | 355  | 2   |
| BACB30ZF4-07 |                     | 71-00-02 | 8-1  | 30   | 1   |
| BACB30ZF4-07 |                     | 71-00-02 | 10-1 | 40   | 1   |
| BACB30ZF4-07 |                     | 71-00-02 | 10-1 | 60   | 2   |
| BACB30ZF4-07 |                     | 71-00-02 | 10-1 | 85   | 1   |
| BACB30ZF4-07 |                     | 71-00-02 | 10-1 | 90   | 1   |
| BACB30ZF4-07 |                     | 71-00-02 | 12-1 | 55   | 4   |
| BACB30ZF4-07 |                     | 71-00-02 | 17-1 | 25   | 1   |
| BACB30ZF4-07 |                     | 71-00-02 | 17-1 | 108  | 1   |
| BACB30ZF4-07 |                     | 71-00-02 | 17-1 | 114  | 1   |
| BACB30ZF4-07 |                     | 71-00-02 | 24-1 | 170  | -   |
| BACB30ZF4-07 |                     | 71-00-02 | 28-1 | 215  | 1   |
| BACB30ZF4-07 |                     | 71-00-02 | 28-1 | 250  | -   |
| BACB30ZF4-07 |                     | 71-00-02 | 28-1 | 250  | 4   |
| BACB30ZF4-07 |                     | 71-00-02 | 28-1 | 405  | -   |
| BACB30ZF4-07 |                     | 71-00-02 | 28-1 | 405  | 2   |
| BACB30ZF4-07 |                     | 71-00-02 | 29-1 | 60   | 1   |
| BACB30ZF4-08 |                     | 71-00-02 | 4-1  | 270  | 2   |
| BACB30ZF4-08 |                     | 71-00-02 | 4-1  | 395  | -   |
| BACB30ZF4-08 |                     | 71-00-02 | 4-1  | 485  | -   |
| BACB30ZF4-08 |                     | 71-00-02 | 4-1  | 770  | 2   |
| BACB30ZF4-08 |                     | 71-00-02 | 5-1  | 350  | 2   |
| BACB30ZF4-08 |                     | 71-00-02 | 7-1  | 230  | 2   |
| BACB30ZF4-08 |                     | 71-00-02 | 9-1  | 40   | 1   |
| BACB30ZF4-08 |                     | 71-00-02 | 9-1  | 85   | 1   |
| BACB30ZF4-08 |                     | 71-00-02 | 9-1  | 110  | 1   |
| BACB30ZF4-08 |                     | 71-00-02 | 9-1  | 160  | 3   |
| BACB30ZF4-08 |                     | 71-00-02 | 9-1  | 255  | 3   |
| BACB30ZF4-08 |                     | 71-00-02 | 10-1 | 15   | 2   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| BACB30ZF4-08 |                     | 71-00-02 | 10-1 | 35   | 1   |
| BACB30ZF4-08 |                     | 71-00-02 | 10-1 | 115  | 1   |
| BACB30ZF4-08 |                     | 71-00-02 | 13-1 | 155  | 2   |
| BACB30ZF4-08 |                     | 71-00-02 | 14-1 | 280  | 4   |
| BACB30ZF4-08 |                     | 71-00-02 | 21-1 | 190  | 2   |
| BACB30ZF4-08 |                     | 71-00-02 | 21-1 | 240  | 5   |
| BACB30ZF4-08 |                     | 71-00-02 | 21-1 | 275  | 3   |
| BACB30ZF4-08 |                     | 71-00-02 | 21-1 | 315  | -   |
| BACB30ZF4-08 |                     | 71-00-02 | 21-1 | 315  | 2   |
| BACB30ZF4-08 |                     | 71-00-02 | 21-1 | 330  | 4   |
| BACB30ZF4-08 |                     | 71-00-02 | 24-1 | 1    | -   |
| BACB30ZF4-08 |                     | 71-00-02 | 24-1 | 161  | 2   |
| BACB30ZF4-08 |                     | 71-00-02 | 27-1 | 105  | -   |
| BACB30ZF4-08 |                     | 71-00-02 | 28-1 | 276  | 1   |
| BACB30ZF4-08 |                     | 71-00-02 | 28-1 | 301  | 1   |
| BACB30ZF4-08 |                     | 71-00-02 | 29-1 | 30   | 4   |
| BACB30ZF4-08 |                     | 71-00-02 | 33-1 | 125  | 4   |
| BACB30ZF4-09 |                     | 71-00-02 | 8-1  | 10   | 1   |
| BACB30ZF4-09 |                     | 71-00-02 | 9-1  | 20   | 1   |
| BACB30ZF4-10 |                     | 71-00-02 | 5-1  | 105  | 2   |
| BACB30ZF4-10 |                     | 71-00-02 | 7-1  | 180  | -   |
| BACB30ZF4-10 |                     | 71-00-02 | 10-1 | 135  | 2   |
| BACB30ZF4-10 |                     | 71-00-02 | 21-1 | 241  | 1   |
| BACB30ZF4-10 |                     | 71-00-02 | 21-1 | 280  | 1   |
| BACB30ZF4-10 |                     | 71-00-02 | 23-1 | 15   | 8   |
| BACB30ZF4-10 |                     | 71-00-02 | 27-1 | 10   | 1   |
| BACB30ZF4-10 |                     | 71-00-02 | 27-1 | 265  | 3   |
| BACB30ZF4-11 |                     | 71-00-02 | 5-1  | 85   | 2   |
| BACB30ZF4-11 |                     | 71-00-02 | 5-1  | 155  | 2   |
| BACB30ZF4-12 |                     | 71-00-02 | 4-1  | 10   | 2   |
| BACB30ZF4-12 |                     | 71-00-02 | 4-1  | 80   | 2   |
| BACB30ZF4-12 |                     | 71-00-02 | 4-1  | 105  | 2   |
| BACB30ZF4-12 |                     | 71-00-02 | 4-1  | 155  | 2   |
| BACB30ZF4-12 |                     | 71-00-02 | 4-1  | 510  | 1   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| BACB30ZF4-12 |                     | 71-00-02 | 4-1  | 805  | 2   |
| BACB30ZF4-12 |                     | 71-00-02 | 5-1  | 255  | 2   |
| BACB30ZF4-12 |                     | 71-00-02 | 6-1  | 455  | 2   |
| BACB30ZF4-12 |                     | 71-00-02 | 7-1  | 180  | 3   |
| BACB30ZF4-12 |                     | 71-00-02 | 21-1 | 355  | 2   |
| BACB30ZF4-14 |                     | 71-00-02 | 4-1  | 370  | 2   |
| BACB30ZF4-14 |                     | 71-00-02 | 4-1  | 765  | 1   |
| BACB30ZF4-14 |                     | 71-00-02 | 4-1  | 830  | 2   |
| BACB30ZF4-14 |                     | 71-00-02 | 6-1  | 80   | 2   |
| BACB30ZF4-14 |                     | 71-00-02 | 6-1  | 130  | 2   |
| BACB30ZF4-14 |                     | 71-00-02 | 6-1  | 180  | 1   |
| BACB30ZF4-14 |                     | 71-00-02 | 6-1  | 355  | 1   |
| BACB30ZF4-14 |                     | 71-00-02 | 12-1 | 15   | 4   |
| BACB30ZF4-16 |                     | 71-00-02 | 4-1  | 555  | 1   |
| BACB30ZF4-16 |                     | 71-00-02 | 4-1  | 760  | 1   |
| BACB30ZF4-24 |                     | 71-00-02 | 6-1  | 415  | 2   |
| BACB30ZF4-24 |                     | 71-00-02 | 29-1 | 10   | 2   |
| BACB30ZF4-26 |                     | 71-00-02 | 4-1  | 265  | 1   |
| BACB30ZF4-26 |                     | 71-00-02 | 4-1  | 605  | 2   |
| BACB30ZF4-29 |                     | 71-00-02 | 4-1  | 260  | 1   |
| BACB30ZF4-32 |                     | 71-00-02 | 21-1 | 50   | 3   |
| BACB30ZF4-34 |                     | 71-00-02 | 4-1  | 710  | 2   |
| BACC10GF24CT |                     | 71-00-02 | 27-1 | 50   | -   |
| BACC10GF24CT |                     | 71-00-02 | 27-1 | 50   | 1   |
| BACC10GT2-04 |                     | 71-00-02 | 15-1 | 30   | 4   |
| BACC10GT2-04 |                     | 71-00-02 | 15-1 | 125  | 4   |
| BACC10GT2-04 |                     | 71-00-02 | 17-1 | 15   | 4   |
| BACC10GT2-04 |                     | 71-00-02 | 17-1 | 104  | 4   |
| BACC10GT2-04 |                     | 71-00-02 | 17-1 | 112  | 4   |
| BACC10GT2-04 |                     | 71-00-02 | 17-1 | 235  | 4   |
| BACC10GT2-06 |                     | 71-00-02 | 9-1  | 35   | 4   |
| BACC10GT2-08 |                     | 71-00-02 | 28-1 | 65   | -   |
| BACC10GT2-08 |                     | 71-00-02 | 28-1 | 185  | -   |
| BACC10GT2-08 |                     | 71-00-02 | 28-1 | 285  | -   |

## NUMERICAL INDEX

Page 11

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER     | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|-----------------|---------------------|----------|------|------|-----|
|                 |                     | SUBJECT  | FIG  | ITEM |     |
| BACC10GT2-08    |                     | 71-00-02 | 28-1 | 310  | -   |
| BACC10GT2-08    |                     | 71-00-02 | 28-1 | 435  | -   |
| BACC10JB034C064 |                     | 71-00-02 | 33-1 | 105  | 1   |
| BACC14AD04J     |                     | 71-00-02 | 25-1 | 200  | -   |
| BACJ40AC54-7    |                     | 71-00-02 | 4-1  | 500  | 1   |
| BACJ40AC54-9    |                     | 71-00-02 | 27-1 | 5    | 1   |
| BACM10L1EBZ     |                     | 71-00-02 | 30-1 | 5    | 1   |
| BACM10L1EBZ     |                     | 71-00-02 | 30-1 | 35   | 1   |
| BACN10HR4C      |                     | 71-00-02 | 32-2 | 110  | 3   |
| BACN10HR4C      |                     | 71-00-02 | 32-2 | 150  | 3   |
| BACN10HR4C      |                     | 71-00-02 | 32-2 | 180  | 85  |
| BACN10HR5CS     |                     | 71-00-02 | 22-1 | 30   | -   |
| BACN10HR5CS     |                     | 71-00-02 | 22-1 | 110  | -   |
| BACN10HR5CS     |                     | 71-00-02 | 22-1 | 125  | -   |
| BACN10HR8C      |                     | 71-00-02 | 32-2 | 60   | 16  |
| BACN10HR8CS     |                     | 71-00-02 | 33-1 | 90   | 24  |
| BACN10HY6AC     |                     | 71-00-02 | 20-1 | 120  | 6   |
| BACN10JC3C      |                     | 71-00-02 | 28-1 | 105  | -   |
| BACN10JC3C      |                     | 71-00-02 | 28-1 | 205  | -   |
| BACN10JC3C      |                     | 71-00-02 | 28-1 | 355  | -   |
| BACN10JC3C      |                     | 71-00-02 | 28-1 | 455  | -   |
| BACN10JC8CM     |                     | 71-00-02 | 2-1  | 85   | 3   |
| BACN10JC8CM     |                     | 71-00-02 | 31-1 | 40   | 2   |
| BACN10JC8CM     |                     | 71-00-02 | 31-1 | 65   | 2   |
| BACN10YR3C      |                     | 71-00-02 | 28-1 | 105  | -   |
| BACN10YR3C      |                     | 71-00-02 | 28-1 | 205  | -   |
| BACN10YR3C      |                     | 71-00-02 | 28-1 | 355  | -   |
| BACN10YR3C      |                     | 71-00-02 | 28-1 | 455  | -   |
| BACN10YR4CD     |                     | 71-00-02 | 4-1  | 525  | 1   |
| BACN10YR4CD     |                     | 71-00-02 | 27-1 | 20   | 1   |
| BACN10YR4CM     |                     | 71-00-02 | 28-1 | 120  | 1   |
| BACN10YR4CM     |                     | 71-00-02 | 33-1 | 15   | 2   |
| BACN11Z3CK      |                     | 71-00-02 | 4-1  | 900  | 1   |
| BACN11Z4CK      |                     | 71-00-02 | 6-1  | 40   | 1   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER    | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|----------------|---------------------|----------|------|------|-----|
|                |                     | SUBJECT  | FIG  | ITEM |     |
| BACN11Z4CK     |                     | 71-00-02 | 6-1  | 210  | 1   |
| BACN11Z4CK     |                     | 71-00-02 | 13-1 | 70   | 2   |
| BACN11Z4CK     |                     | 71-00-02 | 13-1 | 120  | 6   |
| BACN11Z4CK     |                     | 71-00-02 | 13-1 | 270  | 2   |
| BACN11Z8C      |                     | 71-00-02 | 3-1  | 35   | 2   |
| BACN11Z8C      |                     | 71-00-02 | 3-1  | 65   | 2   |
| BACP18BC03B06P |                     | 71-00-02 | 2-1  | 87   | 3   |
| BACP18BC03B06P |                     | 71-00-02 | 3-1  | 40   | 2   |
| BACP18BC03B06P |                     | 71-00-02 | 3-1  | 70   | 2   |
| BACP18BC03B06P |                     | 71-00-02 | 31-1 | 42   | 2   |
| BACP18BC03B06P |                     | 71-00-02 | 31-1 | 67   | 2   |
| BACP18BC03B07P |                     | 71-00-02 | 2-1  | 87   | -   |
| BACP18BC03B07P |                     | 71-00-02 | 3-1  | 40   | -   |
| BACP18BC03B07P |                     | 71-00-02 | 3-1  | 70   | -   |
| BACP18BC03B07P |                     | 71-00-02 | 31-1 | 42   | -   |
| BACP18BC03B07P |                     | 71-00-02 | 31-1 | 67   | -   |
| BACP18BC03B08P |                     | 71-00-02 | 2-1  | 87   | -   |
| BACP18BC03B08P |                     | 71-00-02 | 3-1  | 40   | -   |
| BACP18BC03B08P |                     | 71-00-02 | 3-1  | 70   | -   |
| BACP18BC03B08P |                     | 71-00-02 | 31-1 | 42   | -   |
| BACP18BC03B08P |                     | 71-00-02 | 31-1 | 67   | -   |
| BACS12HN4U12   |                     | 71-00-02 | 4-1  | 50   | 1   |
| BACS18K25-39W  |                     | 71-00-02 | 5-1  | 380  | 2   |
| BACS18K25-45W  |                     | 71-00-02 | 6-1  | 405  | 2   |
| BACV10CE12     |                     | 71-00-02 | 21-1 | 15   | 1   |
| BACW10BN6UC    |                     | 71-00-02 | 16-1 | 520  | 1   |
| BACW10BP10ACU  |                     | 71-00-02 | 2-1  | 105  | 4   |
| BACW10BP12ACU  |                     | 71-00-02 | 31-1 | 30   | 2   |
| BACW10BP12ACU  |                     | 71-00-02 | 31-1 | 55   | 2   |
| BACW10BP14ACU  |                     | 71-00-02 | 3-1  | 105  | 4   |
| BACW10BP3ACU   |                     | 71-00-02 | 4-1  | 880  | 1   |
| BACW10BP4ACU   |                     | 71-00-02 | 4-1  | 560  | 1   |
| BACW10BP4ACU   |                     | 71-00-02 | 4-1  | 635  | 1   |
| BACW10BP4ACU   |                     | 71-00-02 | 4-1  | 660  | 2   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| BACW10BP4ACU |                     | 71-00-02 | 4-1  | 780  | 1   |
| BACW10BP4ACU |                     | 71-00-02 | 5-1  | 15   | 3   |
| BACW10BP4ACU |                     | 71-00-02 | 5-1  | 35   | -   |
| BACW10BP4ACU |                     | 71-00-02 | 5-1  | 35   | 4   |
| BACW10BP4ACU |                     | 71-00-02 | 5-1  | 140  | 2   |
| BACW10BP4ACU |                     | 71-00-02 | 5-1  | 185  | 3   |
| BACW10BP4ACU |                     | 71-00-02 | 5-1  | 210  | 3   |
| BACW10BP4ACU |                     | 71-00-02 | 5-1  | 235  | 2   |
| BACW10BP4ACU |                     | 71-00-02 | 7-1  | 35   | 2   |
| BACW10BP4ACU |                     | 71-00-02 | 7-1  | 60   | 2   |
| BACW10BP4ACU |                     | 71-00-02 | 13-1 | 17   | 4   |
| BACW10BP4ACU |                     | 71-00-02 | 16-1 | 15   | 1   |
| BACW10BP4ACU |                     | 71-00-02 | 16-1 | 50   | 1   |
| BACW10BP4ACU |                     | 71-00-02 | 16-1 | 405  | 1   |
| BACW10BP4ACU |                     | 71-00-02 | 16-1 | 455  | 1   |
| BACW10BP4ACU |                     | 71-00-02 | 21-1 | 150  | 1   |
| BACW10BP4ACU |                     | 71-00-02 | 25-1 | 60   | 2   |
| BACW10BP4ACU |                     | 71-00-02 | 25-1 | 130  | 2   |
| BACW10BP4ACU |                     | 71-00-02 | 27-1 | 190  | 2   |
| BACW10BP4ACU |                     | 71-00-02 | 27-1 | 325  | 2   |
| BACW10BP4ACU |                     | 71-00-02 | 32-2 | 100  | 3   |
| BACW10BP4ACU |                     | 71-00-02 | 32-2 | 140  | 3   |
| BACW10BP4ACU |                     | 71-00-02 | 32-2 | 170  | 77  |
| BACW10BP4APU |                     | 71-00-02 | 4-1  | 60   | 2   |
| BACW10BP4CD  |                     | 71-00-02 | 5-1  | 140  | -   |
| BACW10BP4CD  |                     | 71-00-02 | 27-1 | 190  | -   |
| BACW10BP4PK  |                     | 71-00-02 | 13-1 | 65   | 2   |
| BACW10BP4PK  |                     | 71-00-02 | 13-1 | 115  | 6   |
| BACW10BP4PK  |                     | 71-00-02 | 13-1 | 265  | 2   |
| BACW10BP5ACU |                     | 71-00-02 | 4-1  | 960  | 2   |
| BACW10BP5ACU |                     | 71-00-02 | 6-1  | 235  | 2   |
| BACW10BP5ACU |                     | 71-00-02 | 16-1 | 115  | 4   |
| BACW10BP5ACU |                     | 71-00-02 | 22-1 | 25   | 3   |
| BACW10BP5ACU |                     | 71-00-02 | 22-1 | 105  | 1   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| BACW10BP5ACU |                     | 71-00-02 | 22-1 | 120  | 1   |
| BACW10BP5APU |                     | 71-00-02 | 22-1 | 106  | 1   |
| BACW10BP5CD  |                     | 71-00-02 | 22-1 | 25   | -   |
| BACW10BP5CD  |                     | 71-00-02 | 22-1 | 105  | -   |
| BACW10BP5CD  |                     | 71-00-02 | 22-1 | 120  | -   |
| BACW10BP6ACU |                     | 71-00-02 | 5-1  | 285  | 1   |
| BACW10BP8ACU |                     | 71-00-02 | 2-1  | 25   | 10  |
| BACW10BP8ACU |                     | 71-00-02 | 33-1 | 85   | 24  |
| BACW10BP8APU |                     | 71-00-02 | 32-2 | 50   | 16  |
| BACW10EC4M   |                     | 71-00-02 | 4-1  | 55   | 1   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 15   | 2   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 85   | 2   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 110  | 2   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 160  | 2   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 287  | 1   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 375  | 2   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 512  | 1   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 562  | 1   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 607  | 2   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 775  | 3   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 810  | 2   |
| BACW10P393CB |                     | 71-00-02 | 4-1  | 835  | 2   |
| BACW10P393CB |                     | 71-00-02 | 5-1  | 90   | 2   |
| BACW10P393CB |                     | 71-00-02 | 5-1  | 110  | 2   |
| BACW10P393CB |                     | 71-00-02 | 5-1  | 160  | 2   |
| BACW10P393CB |                     | 71-00-02 | 5-1  | 190  | 3   |
| BACW10P393CB |                     | 71-00-02 | 5-1  | 237  | 2   |
| BACW10P393CB |                     | 71-00-02 | 5-1  | 260  | 4   |
| BACW10P393CB |                     | 71-00-02 | 6-1  | 87   | 2   |
| BACW10P393CB |                     | 71-00-02 | 6-1  | 135  | 4   |
| BACW10P393CB |                     | 71-00-02 | 6-1  | 185  | 2   |
| BACW10P393CB |                     | 71-00-02 | 6-1  | 362  | 1   |
| BACW10P393CB |                     | 71-00-02 | 6-1  | 420  | 1   |
| BACW10P393CB |                     | 71-00-02 | 6-1  | 460  | 2   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| BAC27DHY0337 |                     | 71-00-02 | 30-1 | 25   | 1   |
| BAC27DPP470  |                     | 71-00-02 | 30-1 | 15   | 1   |
| B00083       |                     | 71-00-02 | 28-1 | C1   | AR  |
| B00083       |                     | 71-00-02 | 30-1 | C1   | AR  |
| B00130       |                     | 71-00-02 | 4-1  | C2   | AR  |
| B00130       |                     | 71-00-02 | 5-1  | C1   | AR  |
| B00130       |                     | 71-00-02 | 6-1  | C1   | AR  |
| B00130       |                     | 71-00-02 | 7-1  | C1   | AR  |
| B00130       |                     | 71-00-02 | 8-1  | C1   | AR  |
| B00130       |                     | 71-00-02 | 14-1 | C1   | AR  |
| B00130       |                     | 71-00-02 | 27-1 | C2   | AR  |
| B00571       |                     | 71-00-02 | 30-1 | C2   | AR  |
| B700-2       |                     | 71-00-02 | 10-1 | 100  | 1   |
| B71040       |                     | 71-00-02 | 33-1 | T1   | -   |
| C00259       |                     | 71-00-02 | 4-1  | C8   | AR  |
| C00944       |                     | 71-00-02 | 4-1  | C3   | AR  |
| C00944       |                     | 71-00-02 | 13-1 | C2   | AR  |
| C00944       |                     | 71-00-02 | 27-1 | C3   | AR  |
| C24002       |                     | 71-00-02 | 22-1 | T1   | -   |
| C71024-1     |                     | 71-00-02 | 3-1  | T1   | -   |
| C71027       |                     | 71-00-02 | 33-1 | T3   | -   |
| C78009       |                     | 71-00-02 | 32-2 | T1   | -   |
| C78026       |                     | 71-00-02 | 33-1 | T4   | -   |
| D00006       |                     | 71-00-02 | 2-1  | C1   | AR  |
| D00006       |                     | 71-00-02 | 3-1  | C1   | AR  |
| D00006       |                     | 71-00-02 | 7-1  | C2   | AR  |
| D00006       |                     | 71-00-02 | 9-1  | C6   | AR  |
| D00006       |                     | 71-00-02 | 10-1 | C6   | AR  |
| D00006       |                     | 71-00-02 | 12-1 | C2   | AR  |
| D00006       |                     | 71-00-02 | 13-1 | C1   | AR  |
| D00006       |                     | 71-00-02 | 14-1 | C2   | AR  |
| D00006       |                     | 71-00-02 | 15-1 | C1   | AR  |
| D00006       |                     | 71-00-02 | 16-1 | C1   | AR  |
| D00006       |                     | 71-00-02 | 17-1 | C1   | AR  |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|-------------|---------------------|----------|------|------|-----|
|             |                     | SUBJECT  | FIG  | ITEM |     |
| D00006      |                     | 71-00-02 | 18-1 | C1   | AR  |
| D00006      |                     | 71-00-02 | 22-1 | C5   | AR  |
| D00006      |                     | 71-00-02 | 23-1 | C1   | AR  |
| D00006      |                     | 71-00-02 | 24-1 | C1   | AR  |
| D00006      |                     | 71-00-02 | 25-1 | C1   | AR  |
| D00006      |                     | 71-00-02 | 27-1 | C7   | AR  |
| D00006      |                     | 71-00-02 | 28-1 | C2   | AR  |
| D00006      |                     | 71-00-02 | 29-1 | C1   | AR  |
| D00006      |                     | 71-00-02 | 31-1 | C1   | AR  |
| D00006      |                     | 71-00-02 | 32-2 | C1   | AR  |
| D00054      |                     | 71-00-02 | 20-1 | C1   | AR  |
| D00054      |                     | 71-00-02 | 21-1 | C1   | AR  |
| D00068      |                     | 71-00-02 | 22-1 | C3   | AR  |
| D00071      |                     | 71-00-02 | 22-1 | C2   | AR  |
| D00153      |                     | 71-00-02 | 20-1 | C2   | AR  |
| D00173      |                     | 71-00-02 | 21-1 | C2   | AR  |
| D00254      |                     | 71-00-02 | 20-1 | C4   | AR  |
| D00254      |                     | 71-00-02 | 22-1 | C4   | AR  |
| D00276      |                     | 71-00-02 | 20-1 | C3   | AR  |
| D00504      |                     | 71-00-02 | 9-1  | C1   | AR  |
| D00504      |                     | 71-00-02 | 10-1 | C1   | AR  |
| D00504      |                     | 71-00-02 | 12-1 | C1   | AR  |
| D00601      |                     | 71-00-02 | 33-1 | C1   | AR  |
| D00625      |                     | 71-00-02 | 33-1 | C1   | AR  |
| D00648      |                     | 71-00-02 | 22-1 | C1   | AR  |
| D50004      |                     | 71-00-02 | 4-1  | C7   | AR  |
| D50004      |                     | 71-00-02 | 5-1  | C2   | AR  |
| D50004      |                     | 71-00-02 | 6-1  | C6   | AR  |
| G00251      |                     | 71-00-02 | 27-1 | C1   | AR  |
| G01912      |                     | 71-00-02 | 2-1  | C2   | AR  |
| G01912      |                     | 71-00-02 | 7-1  | C4   | AR  |
| G01912      |                     | 71-00-02 | 13-1 | C7   | AR  |
| G01912      |                     | 71-00-02 | 16-1 | C2   | AR  |
| G01912      |                     | 71-00-02 | 22-1 | C7   | AR  |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|-------------|---------------------|----------|------|------|-----|
|             |                     | SUBJECT  | FIG  | ITEM |     |
| G01912      |                     | 71-00-02 | 25-1 | C2   | AR  |
| G01912      |                     | 71-00-02 | 27-1 | C8   | AR  |
| G50043      |                     | 71-00-02 | 2-1  | C4   | AR  |
| G50044      |                     | 71-00-02 | 2-1  | C5   | -   |
| G50365      |                     | 71-00-02 | 13-1 | C5   | AR  |
| G50367      |                     | 71-00-02 | 13-1 | C8   | AR  |
| G50368      |                     | 71-00-02 | 13-1 | C9   | AR  |
| G50369      |                     | 71-00-02 | 13-1 | C10  | AR  |
| G50375      |                     | 71-00-02 | 2-1  | C3   | 1   |
| G50375      |                     | 71-00-02 | 7-1  | C3   | 3   |
| G50375      |                     | 71-00-02 | 13-1 | C6   | AR  |
| G50375      |                     | 71-00-02 | 16-1 | C3   | 1   |
| G50375      |                     | 71-00-02 | 16-1 | C3   | 2   |
| G50375      |                     | 71-00-02 | 22-1 | C6   | 1   |
| G50375      |                     | 71-00-02 | 25-1 | C3   | 2   |
| G50375      |                     | 71-00-02 | 27-1 | C9   | 2   |
| G51223      |                     | 71-00-02 | 4-1  | C1   | AR  |
| HW93718     |                     | 71-00-02 | 22-1 | T2   | -   |
| HW93718     |                     | 71-00-02 | 32-2 | T2   | -   |
| J1221G06    |                     | 71-00-02 | 9-1  | 15   | 1   |
| J1221G06    |                     | 71-00-02 | 9-1  | 30   | 2   |
| J1221G06    |                     | 71-00-02 | 9-1  | 80   | 2   |
| J1221G06    |                     | 71-00-02 | 9-1  | 105  | 1   |
| J1221G06    |                     | 71-00-02 | 9-1  | 155  | 3   |
| J1221G06    |                     | 71-00-02 | 9-1  | 250  | 3   |
| J1221G06    |                     | 71-00-02 | 10-1 | 110  | 1   |
| J1221G06    |                     | 71-00-02 | 10-1 | 130  | 3   |
| J1221G06    |                     | 71-00-02 | 10-1 | 175  | 1   |
| J1221G06    |                     | 71-00-02 | 21-1 | 125  | 1   |
| J1221G06    |                     | 71-00-02 | 21-1 | 140  | 1   |
| J1221G06    |                     | 71-00-02 | 21-1 | 175  | 2   |
| J1221G08    |                     | 71-00-02 | 10-1 | 10   | 2   |
| J1221G08    |                     | 71-00-02 | 10-1 | 30   | 2   |
| J1221G08    |                     | 71-00-02 | 10-1 | 55   | 2   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER    | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|----------------|---------------------|----------|------|------|-----|
|                |                     | SUBJECT  | FIG  | ITEM |     |
| J1221G08       |                     | 71-00-02 | 10-1 | 80   | 2   |
| J1221G10       |                     | 71-00-02 | 24-1 | 55   | 1   |
| J1221G10       |                     | 71-00-02 | 24-1 | 110  | 3   |
| J1221G12       |                     | 71-00-02 | 24-1 | 155  | 4   |
| J1221G12       |                     | 71-00-02 | 24-1 | 210  | 3   |
| J1221G28       |                     | 71-00-02 | 21-1 | 310  | -   |
| J1221G28       |                     | 71-00-02 | 21-1 | 310  | 2   |
| J1238P54       |                     | 71-00-02 | 14-1 | 30   | 1   |
| J1238P54       |                     | 71-00-02 | 15-1 | 155  | 1   |
| J522P52        |                     | 71-00-02 | 14-1 | 160  | 2   |
| J522P52        |                     | 71-00-02 | 14-1 | 260  | 1   |
| J522P52        |                     | 71-00-02 | 16-1 | 155  | 1   |
| J522P52        |                     | 71-00-02 | 18-1 | 15   | 1   |
| J522P53        |                     | 71-00-02 | 14-1 | 85   | 2   |
| J522P53        |                     | 71-00-02 | 14-1 | 170  | 1   |
| J522P53        |                     | 71-00-02 | 14-1 | 270  | 1   |
| J522P53        |                     | 71-00-02 | 17-1 | 175  | 1   |
| J522P53        |                     | 71-00-02 | 18-1 | 25   | 1   |
| MS21043-3      |                     | 71-00-02 | 28-1 | 355  | -   |
| MS21043-3      |                     | 71-00-02 | 28-1 | 455  | -   |
| MS21043-3      |                     | 71-00-02 | 28-1 | 465  | -   |
| MS21914-4J     |                     | 71-00-02 | 25-1 | 200  | -   |
| MS27198-24     |                     | 71-00-02 | 12-1 | 5    | 1   |
| MS35650-3254   |                     | 71-00-02 | 4-1  | 65   | 1   |
| M83248-1-216   |                     | 71-00-02 | 22-1 | 55   | -   |
| NAS1057T3-050  |                     | 71-00-02 | 14-1 | 10   | 3   |
| NAS1057W4A-064 |                     | 71-00-02 | 4-1  | 275  | -   |
| NAS1057W4A-080 |                     | 71-00-02 | 4-1  | 280  | -   |
| NAS1057W4A025  |                     | 71-00-02 | 13-1 | 220  | -   |
| NAS1057W4A025  |                     | 71-00-02 | 13-1 | 255  | -   |
| NAS1149C0316R  |                     | 71-00-02 | 25-1 | 230  | 1   |
| NAS1149C0316R  |                     | 71-00-02 | 27-1 | 355  | 1   |
| NAS1149C0316R  |                     | 71-00-02 | 28-1 | 100  | 2   |
| NAS1149C0316R  |                     | 71-00-02 | 28-1 | 200  | 2   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER   | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|---------------|---------------------|----------|------|------|-----|
|               |                     | SUBJECT  | FIG  | ITEM |     |
| NAS1149C0316R |                     | 71-00-02 | 28-1 | 350  | -   |
| NAS1149C0316R |                     | 71-00-02 | 28-1 | 350  | 2   |
| NAS1149C0316R |                     | 71-00-02 | 28-1 | 450  | -   |
| NAS1149C0316R |                     | 71-00-02 | 28-1 | 450  | 2   |
| NAS1149C0332R |                     | 71-00-02 | 28-1 | 100  | -   |
| NAS1149C0332R |                     | 71-00-02 | 28-1 | 200  | -   |
| NAS1149C0332R |                     | 71-00-02 | 28-1 | 450  | -   |
| NAS1149C0363R |                     | 71-00-02 | 27-1 | 75   | -   |
| NAS1149C0416R |                     | 71-00-02 | 13-1 | 20   | AR  |
| NAS1149C0432R |                     | 71-00-02 | 4-1  | 285  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 4-1  | 397  | 2   |
| NAS1149C0432R |                     | 71-00-02 | 4-1  | 460  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 4-1  | 715  | 2   |
| NAS1149C0432R |                     | 71-00-02 | 6-1  | 35   | 1   |
| NAS1149C0432R |                     | 71-00-02 | 6-1  | 85   | 2   |
| NAS1149C0432R |                     | 71-00-02 | 6-1  | 205  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 6-1  | 360  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 8-1  | 15   | 1   |
| NAS1149C0432R |                     | 71-00-02 | 10-1 | 140  | 2   |
| NAS1149C0432R |                     | 71-00-02 | 13-1 | 20   | AR  |
| NAS1149C0432R |                     | 71-00-02 | 16-1 | 25   | 1   |
| NAS1149C0432R |                     | 71-00-02 | 16-1 | 60   | 1   |
| NAS1149C0432R |                     | 71-00-02 | 16-1 | 415  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 16-1 | 465  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 17-1 | 116  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 21-1 | 55   | 3   |
| NAS1149C0432R |                     | 71-00-02 | 25-1 | 75   | 2   |
| NAS1149C0432R |                     | 71-00-02 | 25-1 | 140  | 2   |
| NAS1149C0432R |                     | 71-00-02 | 27-1 | 200  | 2   |
| NAS1149C0432R |                     | 71-00-02 | 27-1 | 335  | 2   |
| NAS1149C0432R |                     | 71-00-02 | 28-1 | 115  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 28-1 | 220  | 1   |
| NAS1149C0432R |                     | 71-00-02 | 28-1 | 350  | -   |
| NAS1149C0432R |                     | 71-00-02 | 28-1 | 450  | -   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER     | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|-----------------|---------------------|----------|------|------|-----|
|                 |                     | SUBJECT  | FIG  | ITEM |     |
| NAS1149C0463R   |                     | 71-00-02 | 23-1 | 20   | 8   |
| NAS1149C0632R   |                     | 71-00-02 | 5-1  | 295  | 1   |
| NAS1149D0416H   |                     | 71-00-02 | 4-1  | 515  | 2   |
| NAS1149D0416H   |                     | 71-00-02 | 4-1  | 665  | 2   |
| NAS1149D0416H   |                     | 71-00-02 | 27-1 | 15   | 3   |
| NAS1149E0332R   |                     | 71-00-02 | 4-1  | 895  | 1   |
| NAS1149E0432P   |                     | 71-00-02 | 9-1  | 115  | 1   |
| NAS1149E0432P   |                     | 71-00-02 | 33-1 | 10   | 2   |
| NAS1149E0432R   |                     | 71-00-02 | 33-1 | 130  | 4   |
| NAS1149E0432R   |                     | 71-00-02 | 33-1 | 135  | 1   |
| NAS1149E0432R   |                     | 71-00-02 | 33-1 | 255  | 1   |
| NAS1149E0516P   |                     | 71-00-02 | 22-1 | 27   | 2   |
| NAS1149E0516P   |                     | 71-00-02 | 22-1 | 122  | 1   |
| NAS1149E0532P   |                     | 71-00-02 | 22-1 | 26   | 4   |
| NAS1149E0532P   |                     | 71-00-02 | 22-1 | 121  | 1   |
| NAS1149E0563R   |                     | 71-00-02 | 22-1 | 28   | 3   |
| NAS1149E0563R   |                     | 71-00-02 | 22-1 | 107  | 1   |
| NAS1149E0563R   |                     | 71-00-02 | 22-1 | 123  | 1   |
| NAS1149E0616R   |                     | 71-00-02 | 16-1 | 505  | 4   |
| NAS1149E0632R   |                     | 71-00-02 | 16-1 | 530  | 1   |
| NAS1611-024A    |                     | 71-00-02 | 21-1 | 301  | -   |
| NAS1611-153A    |                     | 71-00-02 | 20-1 | 100  | -   |
| NAS1612-12A     |                     | 71-00-02 | 20-1 | 5    | 1   |
| NAS1612-20A     |                     | 71-00-02 | 20-1 | 50   | 1   |
| NAS1612-6A      |                     | 71-00-02 | 20-1 | 75   | 1   |
| NAS1612-6A      |                     | 71-00-02 | 21-1 | 10   | 1   |
| NAS1612-6A      |                     | 71-00-02 | 21-1 | 25   | 1   |
| NAS1802-3-6     |                     | 71-00-02 | 28-1 | 360  | -   |
| NAS1802-3-6     |                     | 71-00-02 | 28-1 | 460  | -   |
| RC2769-1        |                     | 71-00-02 | 4-1  | 890  | 1   |
| RP235-00        |                     | 71-00-02 | 33-1 | 200  | -   |
| SL4147CA10A     |                     | 71-00-02 | 2-1  | 110  | 4   |
| SL4147CA14EBSP1 |                     | 71-00-02 | 3-1  | 110  | 4   |
| TA025146-15     |                     | 71-00-02 | 29-1 | 25   | 5   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER    | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|----------------|---------------------|----------|------|------|-----|
|                |                     | SUBJECT  | FIG  | ITEM |     |
| TA025146-15    |                     | 71-00-02 | 29-1 | 50   | 4   |
| TA0910064-06   |                     | 71-00-02 | 21-1 | 185  | 1   |
| TA0910083      |                     | 71-00-02 | 21-1 | 325  | 2   |
| TA0910083      |                     | 71-00-02 | 21-1 | 350  | 1   |
| TA0910091H1    |                     | 71-00-02 | 12-1 | 50   | 2   |
| UA538551-3     |                     | 71-00-02 | 23-1 | 5    | 1   |
| U542648        |                     | 71-00-02 | 23-1 | 10   | -   |
| VR1030-300     |                     | 71-00-02 | 25-1 | 185  | -   |
| VR1030-300     |                     | 71-00-02 | 25-1 | 260  | -   |
| VR1030-300     |                     | 71-00-02 | 25-1 | 305  | -   |
| X-310A         |                     | 71-00-02 | 30-1 |      | -   |
| 0646C624-18    |                     | 71-00-02 | 22-1 | 90   | -   |
| 107484-7       |                     | 71-00-02 | 14-1 | 150  | 1   |
| 107492-6       |                     | 71-00-02 | 14-1 | 250  | 1   |
| 115096-2       |                     | 71-00-02 | 24-1 | 200  | 1   |
| 115096-4       |                     | 71-00-02 | 24-1 | 100  | 1   |
| 11777-08       |                     | 71-00-02 | 28-1 | 60   | 3   |
| 11777-08       |                     | 71-00-02 | 28-1 | 180  | 8   |
| 11777-08       |                     | 71-00-02 | 28-1 | 280  | 3   |
| 11777-08       |                     | 71-00-02 | 28-1 | 305  | 5   |
| 11777-08       |                     | 71-00-02 | 28-1 | 430  | 1   |
| 155006-06-16   |                     | 71-00-02 | 21-1 | 200  | 1   |
| 155006-06-23   |                     | 71-00-02 | 21-1 | 75   | 1   |
| 155012-12-2014 |                     | 71-00-02 | 21-1 | 225  | 1   |
| 155012-12-21   |                     | 71-00-02 | 21-1 | 225  | -   |
| 155012-73-20   |                     | 71-00-02 | 20-1 | 20   | 1   |
| 155016-20-11   |                     | 71-00-02 | 21-1 | 300  | -   |
| 155016-20-11   |                     | 71-00-02 | 21-1 | 300  | 1   |
| 16135-80       |                     | 71-00-02 | 17-1 | 50   | 1   |
| 16135-80       |                     | 71-00-02 | 17-1 | 275  | 1   |
| 16135-81       |                     | 71-00-02 | 17-1 | 125  | 1   |
| 16135-83       |                     | 71-00-02 | 17-1 | 75   | -   |
| 16135-84       |                     | 71-00-02 | 15-1 | 175  | 1   |
| 16135-96       |                     | 71-00-02 | 17-1 | 75   | 1   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| 1794M49P01   |                     | 71-00-02 | 15-1 | 35   | 2   |
| 1794M49P01   |                     | 71-00-02 | 15-1 | 130  | 2   |
| 1794M49P01   |                     | 71-00-02 | 17-1 | 10   | 2   |
| 1794M49P01   |                     | 71-00-02 | 17-1 | 102  | 2   |
| 1794M49P01   |                     | 71-00-02 | 17-1 | 110  | 2   |
| 1794M49P01   |                     | 71-00-02 | 17-1 | 230  | 2   |
| 21SN41-52    |                     | 71-00-02 | 27-1 | 60   | -   |
| 21SN41-52    |                     | 71-00-02 | 27-1 | 60   | 1   |
| 286A1062-002 |                     | 71-00-02 | 29-1 | 5    | 1   |
| 30645-300    |                     | 71-00-02 | 25-1 | 185  | 1   |
| 30645-300    |                     | 71-00-02 | 25-1 | 260  | 1   |
| 30645-300    |                     | 71-00-02 | 25-1 | 305  | 1   |
| 310A2020-12  |                     | 71-00-02 | 2-1  | 15   | 1   |
| 310A2020-6   |                     | 71-00-02 | 2-1  | 20   | 2   |
| 310A2021-6   |                     | 71-00-02 | 2-1  | 50   | 1   |
| 310A2029-11  |                     | 71-00-02 | 2-1  | 5    | 8   |
| 310A2029-19  |                     | 71-00-02 | 2-1  | 10   | 2   |
| 310A2030-19  |                     | 71-00-02 | 3-1  | 5    | 1   |
| 310A2037-14  |                     | 71-00-02 | 3-1  | 25   | 2   |
| 310A2037-15  |                     | 71-00-02 | 3-1  | 50   | 1   |
| 310A2037-16  |                     | 71-00-02 | 3-1  | 55   | 1   |
| 310A2039-1   |                     | 71-00-02 | 3-1  | 30   | 2   |
| 310A2039-2   |                     | 71-00-02 | 3-1  | 60   | 2   |
| 310A2040-7   |                     | 71-00-02 | 2-1  | 78   | 2   |
| 310A2040-7   |                     | 71-00-02 | 31-1 | 32   | 1   |
| 310A2040-7   |                     | 71-00-02 | 31-1 | 57   | 1   |
| 310A2041-10  |                     | 71-00-02 | 31-1 | 10   | 1   |
| 310A2041-9   |                     | 71-00-02 | 31-1 | 5    | 1   |
| 310A2042-3   |                     | 71-00-02 | 2-1  | 75   | 3   |
| 310A2042-3   |                     | 71-00-02 | 31-1 | 25   | 2   |
| 310A2042-3   |                     | 71-00-02 | 31-1 | 50   | 2   |
| 310A2043-2   |                     | 71-00-02 | 2-1  | 80   | 3   |
| 310A2043-2   |                     | 71-00-02 | 31-1 | 35   | 2   |
| 310A2043-2   |                     | 71-00-02 | 31-1 | 60   | 2   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| 314-2100-2   |                     | 71-00-02 | 33-1 | 25   | -   |
| 314-2100-3   |                     | 71-00-02 | 33-1 | 25   | -   |
| 314-2100-4   |                     | 71-00-02 | 33-1 | 25   | 1   |
| 314A2630-103 |                     | 71-00-02 | 32-2 | 70   | 1   |
| 314A2640-100 |                     | 71-00-02 | 32-2 | 10   | -   |
| 314A2640-100 |                     | 71-00-02 | 32-2 | 10   | 1   |
| 314A2640-17  |                     | 71-00-02 | 32-2 | 40   | -   |
| 314A2640-34  |                     | 71-00-02 | 32-2 | 20   | -   |
| 314T3019-3   |                     | 71-00-02 | 33-1 | 5    | 2   |
| 315A2080-1   |                     | 71-00-02 | 13-1 | 72   | -   |
| 315A2080-4   |                     | 71-00-02 | 13-1 | 72   | 1   |
| 315A2081-5   |                     | 71-00-02 | 13-1 | 80   | -   |
| 315A2083-1   |                     | 71-00-02 | 13-1 | 75   | -   |
| 3202222-1    |                     | 71-00-02 | 16-1 | 250  | 1   |
| 320548-2     |                     | 71-00-02 | 14-1 | 5    | 1   |
| 3214446-4    |                     | 71-00-02 | 16-1 | 150  | 1   |
| 3214552-6    |                     | 71-00-02 | 18-1 | 5    | 1   |
| 3215618-4    |                     | 71-00-02 | 27-1 | 225  | -   |
| 3215618-5    |                     | 71-00-02 | 27-1 | 225  | -   |
| 3215618-5    |                     | 71-00-02 | 27-1 | 225  | 1   |
| 3215618-6    |                     | 71-00-02 | 27-1 | 225  | -   |
| 322U2338-2   |                     | 71-00-02 | 25-1 | 55   | 2   |
| 3289562-5    |                     | 71-00-02 | 14-1 | 75   | -   |
| 3289562-7    |                     | 71-00-02 | 14-1 | 75   | -   |
| 3289630-2    |                     | 71-00-02 | 25-1 | 175  | 1   |
| 332A1325-1   |                     | 71-00-02 | 27-1 | 55   | -   |
| 332A1325-1   |                     | 71-00-02 | 27-1 | 55   | 1   |
| 332A2240-1   |                     | 71-00-02 | 24-1 | 50   | 1   |
| 332A2240-10  |                     | 71-00-02 | 24-1 | 5    | 1   |
| 332A2240-11  |                     | 71-00-02 | 24-1 | 150  | 1   |
| 332A2310-4   |                     | 71-00-02 | 25-1 | 250  | 1   |
| 332A2313-1   |                     | 71-00-02 | 25-1 | 100  | 1   |
| 332A2321-10  |                     | 71-00-02 | 16-1 | 200  | 1   |
| 332A2322-54  |                     | 71-00-02 | 16-1 | 300  | 1   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|-------------|---------------------|----------|------|------|-----|
|             |                     | SUBJECT  | FIG  | ITEM |     |
| 332A2323-14 |                     | 71-00-02 | 16-1 | 105  | 1   |
| 332A2326-45 |                     | 71-00-02 | 18-1 | 100  | 1   |
| 332A2341-2  |                     | 71-00-02 | 27-1 | 185  | 1   |
| 332A2341-3  |                     | 71-00-02 | 27-1 | 180  | 1   |
| 332A2341-4  |                     | 71-00-02 | 16-1 | 10   | 1   |
| 332A2341-5  |                     | 71-00-02 | 16-1 | 45   | 1   |
| 332A2350-1  |                     | 71-00-02 | 27-1 | 145  | 1   |
| 332A2350-11 |                     | 71-00-02 | 15-1 | 55   | 1   |
| 332A2350-12 |                     | 71-00-02 | 17-1 | 200  | 1   |
| 332A2350-13 |                     | 71-00-02 | 17-1 | 225  | 1   |
| 332A2350-14 |                     | 71-00-02 | 17-1 | 150  | 1   |
| 332A2350-4  |                     | 71-00-02 | 15-1 | 100  | 1   |
| 332A2350-5  |                     | 71-00-02 | 17-1 | 5    | 1   |
| 332A2350-7  |                     | 71-00-02 | 17-1 | 100  | 1   |
| 332A2350-9  |                     | 71-00-02 | 15-1 | 5    | 1   |
| 332A2371-3  |                     | 71-00-02 | 13-1 | 5    | -   |
| 332A2371-4  |                     | 71-00-02 | 13-1 | 5    | 1   |
| 332A2372-3  |                     | 71-00-02 | 13-1 | 50   | 1   |
| 332A2372-4  |                     | 71-00-02 | 13-1 | 55   | 1   |
| 332A2373-1  |                     | 71-00-02 | 13-1 | 30   | AR  |
| 332A2373-2  |                     | 71-00-02 | 13-1 | 35   | AR  |
| 332A2374-10 |                     | 71-00-02 | 13-1 | 205  | -   |
| 332A2374-13 |                     | 71-00-02 | 13-1 | 200  | 1   |
| 332A2374-14 |                     | 71-00-02 | 13-1 | 205  | 1   |
| 332A2374-9  |                     | 71-00-02 | 13-1 | 200  | -   |
| 332A2376-1  |                     | 71-00-02 | 13-1 | 225  | -   |
| 332A2376-1  |                     | 71-00-02 | 13-1 | 260  | -   |
| 332A2390-12 |                     | 71-00-02 | 27-1 | 250  | 1   |
| 332A2390-3  |                     | 71-00-02 | 27-1 | 100  | -   |
| 332A2390-43 |                     | 71-00-02 | 13-1 | 10   | -   |
| 332A2390-45 |                     | 71-00-02 | 13-1 | 10   | 1   |
| 332A2390-48 |                     | 71-00-02 | 27-1 | 100  | 1   |
| 332A2410-1  |                     | 71-00-02 | 21-1 | 110  | 1   |
| 332A2600-4  |                     | 71-00-02 | 22-1 | 5    | 1   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| 332A2600-5   |                     | 71-00-02 | 22-1 | 10   | 1   |
| 332A2600-6   |                     | 71-00-02 | 22-1 | 15   | 1   |
| 332A2710-1   |                     | 71-00-02 | 9-1  | 10   | 1   |
| 332A2710-11  |                     | 71-00-02 | 9-1  | 125  | -   |
| 332A2710-13  |                     | 71-00-02 | 9-1  | 150  | 1   |
| 332A2710-15  |                     | 71-00-02 | 9-1  | 200  | 1   |
| 332A2710-25  |                     | 71-00-02 | 10-1 | 105  | 1   |
| 332A2710-27  |                     | 71-00-02 | 9-1  | 225  | 1   |
| 332A2710-3   |                     | 71-00-02 | 9-1  | 5    | 1   |
| 332A2710-30  |                     | 71-00-02 | 9-1  | 100  | -   |
| 332A2710-31  |                     | 71-00-02 | 10-1 | 75   | 1   |
| 332A2710-32  |                     | 71-00-02 | 10-1 | 5    | -   |
| 332A2710-33  |                     | 71-00-02 | 10-1 | 50   | 1   |
| 332A2710-36  |                     | 71-00-02 | 9-1  | 75   | 1   |
| 332A2710-38  |                     | 71-00-02 | 9-1  | 100  | 1   |
| 332A2710-42  |                     | 71-00-02 | 10-1 | 5    | -   |
| 332A2710-43  |                     | 71-00-02 | 10-1 | 5    | 1   |
| 332A2910-1   |                     | 71-00-02 | 27-1 | 65   | -   |
| 332A2910-101 |                     | 71-00-02 | 5-1  | 225  | -   |
| 332A2910-104 |                     | 71-00-02 | 5-1  | 375  | -   |
| 332A2910-106 |                     | 71-00-02 | 7-1  | 275  | 1   |
| 332A2910-108 |                     | 71-00-02 | 7-1  | 325  | 1   |
| 332A2910-11  |                     | 71-00-02 | 7-1  | 225  | 1   |
| 332A2910-111 |                     | 71-00-02 | 7-1  | 150  | 1   |
| 332A2910-112 |                     | 71-00-02 | 5-1  | 100  | 1   |
| 332A2910-125 |                     | 71-00-02 | 4-1  | 700  | 1   |
| 332A2910-128 |                     | 71-00-02 | 7-1  | 200  | 1   |
| 332A2910-134 |                     | 71-00-02 | 5-1  | 75   | 1   |
| 332A2910-136 |                     | 71-00-02 | 4-1  | 755  | 1   |
| 332A2910-138 |                     | 71-00-02 | 4-1  | 625  | 1   |
| 332A2910-141 |                     | 71-00-02 | 5-1  | 375  | 1   |
| 332A2910-143 |                     | 71-00-02 | 4-1  | 75   | 1   |
| 332A2910-147 |                     | 71-00-02 | 4-1  | 400  | -   |
| 332A2910-149 |                     | 71-00-02 | 4-1  | 450  | -   |

**NUMERICAL INDEX**



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |     |      | QTY |
|--------------|---------------------|----------|-----|------|-----|
|              |                     | SUBJECT  | FIG | ITEM |     |
| 332A2910-159 |                     | 71-00-02 | 4-1 | 400  | 1   |
| 332A2910-161 |                     | 71-00-02 | 4-1 | 450  | 1   |
| 332A2910-163 |                     | 71-00-02 | 4-1 | 390  | 1   |
| 332A2910-165 |                     | 71-00-02 | 5-1 | 225  | 1   |
| 332A2910-24  |                     | 71-00-02 | 5-1 | 5    | 1   |
| 332A2910-26  |                     | 71-00-02 | 6-1 | 325  | 1   |
| 332A2910-39  |                     | 71-00-02 | 7-1 | 300  | 1   |
| 332A2910-41  |                     | 71-00-02 | 4-1 | 505  | 1   |
| 332A2910-51  |                     | 71-00-02 | 6-1 | 400  | 1   |
| 332A2910-67  |                     | 71-00-02 | 5-1 | 325  | -   |
| 332A2910-69  |                     | 71-00-02 | 5-1 | 75   | -   |
| 332A2910-74  |                     | 71-00-02 | 5-1 | 150  | 1   |
| 332A2910-87  |                     | 71-00-02 | 4-1 | 355  | -   |
| 332A2910-89  |                     | 71-00-02 | 4-1 | 755  | -   |
| 332A2910-91  |                     | 71-00-02 | 4-1 | 625  | -   |
| 332A2910-95  |                     | 71-00-02 | 6-1 | 125A | -   |
| 332A2910-96  |                     | 71-00-02 | 6-1 | 125B | -   |
| 332A2910-99  |                     | 71-00-02 | 6-1 | 125  | 1   |
| 332A2911-1   |                     | 71-00-02 | 5-1 | 275  | 1   |
| 332A2911-2   |                     | 71-00-02 | 5-1 | 175  | 1   |
| 332A2911-5   |                     | 71-00-02 | 5-1 | 200  | 1   |
| 332A2911-9   |                     | 71-00-02 | 8-1 | 125  | 1   |
| 332A2920-110 |                     | 71-00-02 | 5-1 | 25   | -   |
| 332A2920-115 |                     | 71-00-02 | 4-1 | 360  | -   |
| 332A2920-117 |                     | 71-00-02 | 4-1 | 255  | -   |
| 332A2920-119 |                     | 71-00-02 | 5-1 | 250  | 1   |
| 332A2920-124 |                     | 71-00-02 | 7-1 | 25   | -   |
| 332A2920-131 |                     | 71-00-02 | 4-1 | 250  | -   |
| 332A2920-132 |                     | 71-00-02 | 6-1 | 175  | 2   |
| 332A2920-142 |                     | 71-00-02 | 4-1 | 150  | 1   |
| 332A2920-143 |                     | 71-00-02 | 7-1 | 100  | -   |
| 332A2920-15  |                     | 71-00-02 | 4-1 | 825  | 1   |
| 332A2920-157 |                     | 71-00-02 | 4-1 | 250  | 1   |
| 332A2920-178 |                     | 71-00-02 | 4-1 | 325  | 1   |

## NUMERICAL INDEX



**737-600/700/800/900  
POWERPLANT BUILDUP MANUAL**

| PART NUMBER  | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|--------------|---------------------|----------|------|------|-----|
|              |                     | SUBJECT  | FIG  | ITEM |     |
| 332A2920-179 |                     | 71-00-02 | 7-1  | 175  | 1   |
| 332A2920-185 |                     | 71-00-02 | 7-1  | 125  | 1   |
| 332A2920-193 |                     | 71-00-02 | 5-1  | 25   | -   |
| 332A2920-197 |                     | 71-00-02 | 4-1  | 350  | 1   |
| 332A2920-199 |                     | 71-00-02 | 7-1  | 100  | 1   |
| 332A2920-201 |                     | 71-00-02 | 7-1  | 25   | 1   |
| 332A2920-222 |                     | 71-00-02 | 4-1  | 800  | 1   |
| 332A2920-224 |                     | 71-00-02 | 4-1  | 750  | 1   |
| 332A2920-225 |                     | 71-00-02 | 7-1  | 55   | 1   |
| 332A2920-228 |                     | 71-00-02 | 4-1  | 600  | 1   |
| 332A2920-229 |                     | 71-00-02 | 4-1  | 5    | 1   |
| 332A2920-230 |                     | 71-00-02 | 8-1  | 5    | 1   |
| 332A2920-232 |                     | 71-00-02 | 4-1  | 100  | 1   |
| 332A2920-235 |                     | 71-00-02 | 5-1  | 330  | 1   |
| 332A2920-236 |                     | 71-00-02 | 4-1  | 390  | -   |
| 332A2920-237 |                     | 71-00-02 | 6-1  | 450  | 1   |
| 332A2920-245 |                     | 71-00-02 | 5-1  | 25   | -   |
| 332A2920-245 |                     | 71-00-02 | 5-1  | 25   | 2   |
| 332A2920-29  |                     | 71-00-02 | 6-1  | 175  | -   |
| 332A2920-39  |                     | 71-00-02 | 7-1  | 125  | -   |
| 332A2920-48  |                     | 71-00-02 | 6-1  | 450  | -   |
| 332A2920-55  |                     | 71-00-02 | 7-1  | 350  | 1   |
| 332A2920-92  |                     | 71-00-02 | 5-1  | 80   | 1   |
| 332A2920-92  |                     | 71-00-02 | 5-1  | 130  | 1   |
| 332A2921-1   |                     | 71-00-02 | 8-1  | 25   | 1   |
| 332A2930-1   |                     | 71-00-02 | 6-1  | 50   | 1   |
| 332A2930-1   |                     | 71-00-02 | 6-1  | 75   | 1   |
| 332A2930-17  |                     | 71-00-02 | 7-1  | 175  | -   |
| 332A2930-26  |                     | 71-00-02 | 6-1  | 405  | -   |
| 332A2930-30  |                     | 71-00-02 | 4-1  | 325  | -   |
| 332A2930-33  |                     | 71-00-02 | 4-1  | 550  | -   |
| 332A2930-49  |                     | 71-00-02 | 14-1 | 10   | -   |
| 332A2930-54  |                     | 71-00-02 | 5-1  | 330  | -   |
| 332A2930-57  |                     | 71-00-02 | 4-1  | 700  | -   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER   | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|---------------|---------------------|----------|------|------|-----|
|               |                     | SUBJECT  | FIG  | ITEM |     |
| 332A2930-60   |                     | 71-00-02 | 5-1  | 380  | -   |
| 332A2930-61   |                     | 71-00-02 | 4-1  | 950  | 1   |
| 332A2930-62   |                     | 71-00-02 | 6-1  | 225  | 1   |
| 332A2930-7    |                     | 71-00-02 | 4-1  | 650  | 1   |
| 332A2930-85   |                     | 71-00-02 | 4-1  | 550  | -   |
| 332A2930-88   |                     | 71-00-02 | 4-1  | 705  | 1   |
| 332A2930-89   |                     | 71-00-02 | 4-1  | 602  | 1   |
| 332A2930-90   |                     | 71-00-02 | 6-1  | 350  | 1   |
| 332A2930-98   |                     | 71-00-02 | 4-1  | 392  | 1   |
| 332A2930-99   |                     | 71-00-02 | 4-1  | 550  | 1   |
| 332A2931-3    |                     | 71-00-02 | 5-1  | 125  | 1   |
| 332T3323-2    |                     | 71-00-02 | 20-1 | 110  | 1   |
| 332W1910-9    |                     | 71-00-02 | 24-1 | 220  | 3   |
| 332W3130-18   |                     | 71-00-02 | 21-1 | 245  | 3   |
| 332W3130-18   |                     | 71-00-02 | 21-1 | 285  | 2   |
| 332W5101-10   |                     | 71-00-02 | 21-1 | 250  | 3   |
| 332W5101-10   |                     | 71-00-02 | 21-1 | 290  | 2   |
| 333A2020-5    |                     | 71-00-02 | 32-2 | 90   | 1   |
| 333A2020-5    |                     | 71-00-02 | 32-2 | 130  | 1   |
| 334A2010-1    |                     | 71-00-02 | 33-1 | 80   | 24  |
| 340-087-904-0 |                     | 71-00-02 | 24-1 | 2    | -   |
| 370D1005-5    |                     | 71-00-02 | 6-1  | 30   | 1   |
| 370D1005-5    |                     | 71-00-02 | 6-1  | 200  | 1   |
| 387999        |                     | 71-00-02 | 20-1 | 105  | -   |
| 63292146-1    |                     | 71-00-02 | 14-1 | 75   | 1   |
| 649-304-004-0 |                     | 71-00-02 | 33-1 | 270  | -   |
| 649-341-011-0 |                     | 71-00-02 | 33-1 | 260  | -   |
| 683-3-20      |                     | 71-00-02 | 30-1 |      | -   |
| 69A94         |                     | 71-00-02 | 33-1 | 250  | -   |
| 731476        |                     | 71-00-02 | 22-1 | 85   | -   |
| 7579078       |                     | 71-00-02 | 21-1 | 5    | 1   |
| 761574        |                     | 71-00-02 | 22-1 | 50   | -   |
| 761574B       |                     | 71-00-02 | 22-1 | 50   | 1   |
| 762075        |                     | 71-00-02 | 22-1 | 80   | -   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER   | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|---------------|---------------------|----------|------|------|-----|
|               |                     | SUBJECT  | FIG  | ITEM |     |
| 762246        |                     | 71-00-02 | 22-1 | 75   | 1   |
| 801A50-0004-A |                     | 71-00-02 | 14-1 | 25   | 1   |
| 801A50-0004-A |                     | 71-00-02 | 15-1 | 150  | 1   |
| 801A50-0004A  |                     | 71-00-02 | 14-1 | 25   | -   |
| 801A50-0004A  |                     | 71-00-02 | 15-1 | 150  | -   |
| 801A50-0005-A |                     | 71-00-02 | 14-1 | 155  | 2   |
| 801A50-0005-A |                     | 71-00-02 | 14-1 | 255  | 1   |
| 801A50-0005-A |                     | 71-00-02 | 16-1 | 160  | 1   |
| 801A50-0005-A |                     | 71-00-02 | 18-1 | 10   | 1   |
| 801A50-0005A  |                     | 71-00-02 | 14-1 | 155  | -   |
| 801A50-0005A  |                     | 71-00-02 | 14-1 | 255  | -   |
| 801A50-0005A  |                     | 71-00-02 | 16-1 | 160  | -   |
| 801A50-0005A  |                     | 71-00-02 | 18-1 | 10   | -   |
| 801A50-0006-A |                     | 71-00-02 | 14-1 | 80   | 2   |
| 801A50-0006-A |                     | 71-00-02 | 14-1 | 165  | 1   |
| 801A50-0006-A |                     | 71-00-02 | 14-1 | 265  | 1   |
| 801A50-0006-A |                     | 71-00-02 | 17-1 | 180  | 1   |
| 801A50-0006-A |                     | 71-00-02 | 18-1 | 20   | 1   |
| 801A50-0006-A |                     | 71-00-02 | 18-1 | 30   | 1   |
| 801A50-0006-A |                     | 71-00-02 | 27-1 | 135  | 1   |
| 801A50-0006A  |                     | 71-00-02 | 14-1 | 80   | -   |
| 801A50-0006A  |                     | 71-00-02 | 14-1 | 165  | -   |
| 801A50-0006A  |                     | 71-00-02 | 14-1 | 265  | -   |
| 801A50-0006A  |                     | 71-00-02 | 17-1 | 180  | -   |
| 801A50-0006A  |                     | 71-00-02 | 18-1 | 20   | -   |
| 801A50-0006A  |                     | 71-00-02 | 18-1 | 30   | -   |
| 801A50-0006A  |                     | 71-00-02 | 27-1 | 135  | -   |
| 82C10020-2    |                     | 71-00-02 | 14-1 | 100  | 1   |
| 849589        |                     | 71-00-02 | 20-1 | 15   | 1   |
| 8757-350      |                     | 71-00-02 | 16-1 | 110  | 1   |
| 902016-01     |                     | 71-00-02 | 28-1 | 10   | 1   |
| 902018-01     |                     | 71-00-02 | 28-1 | 20   | -   |
| 902018-02     |                     | 71-00-02 | 28-1 | 20   | 1   |
| 902862        |                     | 71-00-02 | 28-1 | 15   | -   |

## NUMERICAL INDEX



737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| PART NUMBER | AIRLINE PART NUMBER | LOCATION |      |      | QTY |
|-------------|---------------------|----------|------|------|-----|
|             |                     | SUBJECT  | FIG  | ITEM |     |
| 902862-01   |                     | 71-00-02 | 28-1 | 15   | 1   |
| 902864      |                     | 71-00-02 | 28-1 | 5    | 1   |
| 9134M25P29  |                     | 71-00-02 | 13-1 | 150  | 1   |
| 9352M41P03  |                     | 71-00-02 | 9-1  | 35   | -   |
| 9352M41P04  |                     | 71-00-02 | 28-1 | 65   | 6   |
| 9352M41P04  |                     | 71-00-02 | 28-1 | 185  | 16  |
| 9352M41P04  |                     | 71-00-02 | 28-1 | 285  | 6   |
| 9352M41P04  |                     | 71-00-02 | 28-1 | 310  | 10  |
| 9352M41P04  |                     | 71-00-02 | 28-1 | 435  | 2   |
| 9352M41P16  |                     | 71-00-02 | 15-1 | 30   | -   |
| 9352M41P16  |                     | 71-00-02 | 15-1 | 125  | -   |
| 9352M41P16  |                     | 71-00-02 | 17-1 | 15   | -   |
| 9352M41P16  |                     | 71-00-02 | 17-1 | 104  | -   |
| 9352M41P16  |                     | 71-00-02 | 17-1 | 112  | -   |
| 9352M41P16  |                     | 71-00-02 | 17-1 | 235  | -   |
| 974219      |                     | 71-00-02 | 20-1 | 150  | -   |

## NUMERICAL INDEX

# CHAPTER

# 71

## POWERPLANT BUILDUP

(CFM56 ENGINES (CFM56-7))

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**CHAPTER 71**  
**POWERPLANT BUILDUP**

| Subject/Page                      | Date        | Subject/Page                           | Date        | Subject/Page                           | Date        |
|-----------------------------------|-------------|--|-------------|--|-------------|
| 71-EFFECTIVE PAGES                |             | 71-00-02 P/P BUILDUP FIGURE 4-1 (cont) |             | 71-00-02 P/P BUILDUP FIGURE 4-1 (cont) |             |
| 1 thru 6                          | JUN 15/2016 | 3                                      | Jun 15/2016 | 45                                     | Jun 15/2016 |
| 71-CONTENTS                       |             | 4                                      | Jun 15/2016 | 46                                     | Jun 15/2016 |
| 1                                 | Jun 15/2016 | 5                                      | Jun 15/2016 | 47                                     | Jun 15/2016 |
| 2                                 | Jun 15/2016 | 6                                      | Jun 15/2016 | 48                                     | Jun 15/2016 |
| 71-00-02 SUBJECT INDEX FIGURE 1-1 |             | 7                                      | Jun 15/2016 | 49                                     | Jun 15/2016 |
| 1                                 | Jun 15/2016 | 8                                      | Jun 15/2016 | 50                                     | Jun 15/2016 |
| 2                                 | Jun 15/2016 | 9                                      | Jun 15/2016 | 51                                     | Jun 15/2016 |
| 3                                 | Jun 15/2016 | 10                                     | Jun 15/2016 | 52                                     | Jun 15/2016 |
| 4                                 | Jun 15/2016 | 11                                     | Jun 15/2016 | 53                                     | Jun 15/2016 |
| 5                                 | Jun 15/2016 | 12                                     | Jun 15/2016 | 54                                     | Jun 15/2016 |
| 6                                 | Jun 15/2016 | 13                                     | Jun 15/2016 | 55                                     | Jun 15/2016 |
| 7                                 | Jun 15/2016 | 14                                     | Jun 15/2016 | 56                                     | Jun 15/2016 |
| 8                                 | BLANK       | 15                                     | Jun 15/2016 | 57                                     | Jun 15/2016 |
| 71-00-02 P/P BUILDUP FIGURE 2-1   |             | 16                                     | Jun 15/2016 | 58                                     | Jun 15/2016 |
| 1                                 | Jun 15/2016 | 17                                     | Jun 15/2016 | 59                                     | Jun 15/2016 |
| 2                                 | Jun 15/2016 | 18                                     | Jun 15/2016 | 60                                     | Jun 15/2016 |
| R 3                               | Jun 15/2016 | 19                                     | Jun 15/2016 | 61                                     | Jun 15/2016 |
| 4                                 | Jun 15/2016 | 20                                     | Jun 15/2016 | 62                                     | BLANK       |
| 5                                 | Jun 15/2016 | 21                                     | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 5-1        |             |
| 6                                 | Jun 15/2016 | 22                                     | Jun 15/2016 | 1                                      | Jun 15/2016 |
| R 7                               | Jun 15/2016 | 23                                     | Jun 15/2016 | 2                                      | Jun 15/2016 |
| 8                                 | Jun 15/2016 | 24                                     | Jun 15/2016 | 3                                      | Jun 15/2016 |
| R 9                               | Jun 15/2016 | 25                                     | Jun 15/2016 | R 4                                    | Jun 15/2016 |
| 10                                | Jun 15/2016 | 26                                     | Jun 15/2016 | R 5                                    | Jun 15/2016 |
| 11                                | Jun 15/2016 | 27                                     | Jun 15/2016 | 6                                      | Jun 15/2016 |
| 12                                | BLANK       | R 28                                   | Jun 15/2016 | 7                                      | Jun 15/2016 |
| 71-00-02 P/P BUILDUP FIGURE 3-1   |             | R 29                                   | Jun 15/2016 | 8                                      | Jun 15/2016 |
| 1                                 | Jun 15/2016 | 30                                     | Jun 15/2016 | 9                                      | Jun 15/2016 |
| 2                                 | Jun 15/2016 | 31                                     | Jun 15/2016 | 10                                     | Jun 15/2016 |
| R 3                               | Jun 15/2016 | 32                                     | Jun 15/2016 | 11                                     | Jun 15/2016 |
| 4                                 | Jun 15/2016 | 33                                     | Jun 15/2016 | 12                                     | Jun 15/2016 |
| R 5                               | Jun 15/2016 | 34                                     | Jun 15/2016 | 13                                     | Jun 15/2016 |
| 6                                 | Jun 15/2016 | 35                                     | Jun 15/2016 | 14                                     | Jun 15/2016 |
| R 7                               | Jun 15/2016 | 36                                     | Jun 15/2016 | 15                                     | Jun 15/2016 |
| 8                                 | Jun 15/2016 | 37                                     | Jun 15/2016 | 16                                     | Jun 15/2016 |
| 9                                 | Jun 15/2016 | 38                                     | Jun 15/2016 | 17                                     | Jun 15/2016 |
| 10                                | Jun 15/2016 | 39                                     | Jun 15/2016 | 18                                     | Jun 15/2016 |
| 11                                | Jun 15/2016 | 40                                     | Jun 15/2016 | 19                                     | Jun 15/2016 |
| 12                                | BLANK       | 41                                     | Jun 15/2016 | 20                                     | Jun 15/2016 |
| 71-00-02 P/P BUILDUP FIGURE 4-1   |             | 42                                     | Jun 15/2016 | 21                                     | Jun 15/2016 |
| 1                                 | Jun 15/2016 | 43                                     | Jun 15/2016 | 22                                     | Jun 15/2016 |
| 2                                 | Jun 15/2016 | 44                                     | Jun 15/2016 | 23                                     | Jun 15/2016 |

A = Added, R = Revised, D = Deleted, O = Overflow

**71-EFFECTIVE PAGES**

Page 1

Jun 15/2016

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**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**CHAPTER 71**  
**POWERPLANT BUILDUP**

| Subject/Page                           | Date        | Subject/Page                           | Date        | Subject/Page                           | Date        |
|--|-------------|--|-------------|--|-------------|
| 71-00-02 P/P BUILDUP FIGURE 5-1 (cont) |             | 71-00-02 P/P BUILDUP FIGURE 7-1 (cont) |             | 71-00-02 P/P BUILDUP FIGURE 9-1 (cont) |             |
| 24                                     | Jun 15/2016 | 8                                      | Jun 15/2016 | 6                                      | Jun 15/2016 |
| 25                                     | Jun 15/2016 | 9                                      | Jun 15/2016 | R 7                                    | Jun 15/2016 |
| 26                                     | Jun 15/2016 | 10                                     | Jun 15/2016 | 8                                      | Jun 15/2016 |
| 27                                     | Jun 15/2016 | 11                                     | Jun 15/2016 | R 9                                    | Jun 15/2016 |
| 28                                     | Jun 15/2016 | 12                                     | Jun 15/2016 | 10                                     | Jun 15/2016 |
| 29                                     | Jun 15/2016 | 13                                     | Jun 15/2016 | 11                                     | Jun 15/2016 |
| 30                                     | BLANK       | 14                                     | Jun 15/2016 | 12                                     | Jun 15/2016 |
| 71-00-02 P/P BUILDUP FIGURE 6-1        |             | 15                                     | Jun 15/2016 | R 13                                   | Jun 15/2016 |
| 1                                      | Jun 15/2016 | 16                                     | Jun 15/2016 | 14                                     | Jun 15/2016 |
| 2                                      | Jun 15/2016 | 17                                     | Jun 15/2016 | 15                                     | Jun 15/2016 |
| 3                                      | Jun 15/2016 | 18                                     | Jun 15/2016 | 16                                     | Jun 15/2016 |
| 4                                      | Jun 15/2016 | 19                                     | Jun 15/2016 | R 17                                   | Jun 15/2016 |
| 5                                      | Jun 15/2016 | 20                                     | Jun 15/2016 | 18                                     | BLANK       |
| 6                                      | Jun 15/2016 | 21                                     | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 10-1       |             |
| 7                                      | Jun 15/2016 | 22                                     | Jun 15/2016 | 1                                      | Jun 15/2016 |
| 8                                      | Jun 15/2016 | 23                                     | Jun 15/2016 | 2                                      | Jun 15/2016 |
| 9                                      | Jun 15/2016 | 24                                     | Jun 15/2016 | R 3                                    | Jun 15/2016 |
| 10                                     | Jun 15/2016 | 25                                     | Jun 15/2016 | 4                                      | Jun 15/2016 |
| 11                                     | Jun 15/2016 | 26                                     | Jun 15/2016 | R 5                                    | Jun 15/2016 |
| 12                                     | Jun 15/2016 | 27                                     | Jun 15/2016 | 6                                      | Jun 15/2016 |
| 13                                     | Jun 15/2016 | 28                                     | Jun 15/2016 | R 7                                    | Jun 15/2016 |
| 14                                     | Jun 15/2016 | 29                                     | Jun 15/2016 | 8                                      | Jun 15/2016 |
| 15                                     | Jun 15/2016 | 30                                     | BLANK       | R 9                                    | Jun 15/2016 |
| 16                                     | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 8-1        |             | 10                                     | Jun 15/2016 |
| 17                                     | Jun 15/2016 | 1                                      | Jun 15/2016 | 11                                     | Jun 15/2016 |
| 18                                     | Jun 15/2016 | 2                                      | Jun 15/2016 | 12                                     | Jun 15/2016 |
| 19                                     | Jun 15/2016 | 3                                      | Jun 15/2016 | R 13                                   | Jun 15/2016 |
| 20                                     | Jun 15/2016 | 4                                      | Jun 15/2016 | 14                                     | Jun 15/2016 |
| 21                                     | Jun 15/2016 | 5                                      | Jun 15/2016 | R 15                                   | Jun 15/2016 |
| 22                                     | Jun 15/2016 | 6                                      | Jun 15/2016 | 16                                     | BLANK       |
| 23                                     | Jun 15/2016 | 7                                      | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 12-1       |             |
| 24                                     | Jun 15/2016 | 8                                      | Jun 15/2016 | 1                                      | Jun 15/2016 |
| 25                                     | Jun 15/2016 | 9                                      | Jun 15/2016 | 2                                      | Jun 15/2016 |
| 26                                     | BLANK       | 10                                     | Jun 15/2016 | R 3                                    | Jun 15/2016 |
| 71-00-02 P/P BUILDUP FIGURE 7-1        |             | 11                                     | Jun 15/2016 | 4                                      | Jun 15/2016 |
| 1                                      | Jun 15/2016 | 12                                     | BLANK       | R 5                                    | Jun 15/2016 |
| 2                                      | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 9-1        |             | 6                                      | BLANK       |
| 3                                      | Jun 15/2016 | 1                                      | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 13-1       |             |
| 4                                      | Jun 15/2016 | 2                                      | Jun 15/2016 | 1                                      | Jun 15/2016 |
| R 5                                    | Jun 15/2016 | R 3                                    | Jun 15/2016 | 2                                      | Jun 15/2016 |
| 6                                      | Jun 15/2016 | 4                                      | Jun 15/2016 | 3                                      | Jun 15/2016 |
| R 7                                    | Jun 15/2016 | R 5                                    | Jun 15/2016 | 4                                      | Jun 15/2016 |

A = Added, R = Revised, D = Deleted, O = Overflow

**71-EFFECTIVE PAGES**

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**CHAPTER 71**  
**POWERPLANT BUILDUP**

| Subject/Page                               | Date        | Subject/Page                               | Date        | Subject/Page                               | Date        |
|--|-------------|--|-------------|--|-------------|
| 71-00-02 P/P BUILDUP FIGURE 13-1<br>(cont) |             | 71-00-02 P/P BUILDUP FIGURE 14-1<br>(cont) |             | 71-00-02 P/P BUILDUP FIGURE 16-1<br>(cont) |             |
| 5  | Jun 15/2016 | R 17                                       | Jun 15/2016 | 18   | Jun 15/2016 |
| 6  | Jun 15/2016 | 18   | Jun 15/2016 | R 19                                       | Jun 15/2016 |
| R 7  | Jun 15/2016 | 19   | Jun 15/2016 | 20   | Jun 15/2016 |
| 8  | Jun 15/2016 | 20   | Jun 15/2016 | R 21                                       | Jun 15/2016 |
| 9  | Jun 15/2016 | 21   | Jun 15/2016 | 22   | Jun 15/2016 |
| 10   | Jun 15/2016 | 22   | Jun 15/2016 | 23   | Jun 15/2016 |
| 11   | Jun 15/2016 | 23   | Jun 15/2016 | 24   | Jun 15/2016 |
| 12   | Jun 15/2016 | 24   | BLANK       | R 25                                       | Jun 15/2016 |
| 13   | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 15-1           |             | 26   | BLANK       |
| 14   | Jun 15/2016 | 1  | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 17-1           |             |
| 15   | Jun 15/2016 | 2  | Jun 15/2016 | 1  | Jun 15/2016 |
| R 16                                       | Jun 15/2016 | R 3  | Jun 15/2016 | R 2  | Jun 15/2016 |
| R 17                                       | Jun 15/2016 | 4  | Jun 15/2016 | R 3  | Jun 15/2016 |
| 18   | Jun 15/2016 | R 5  | Jun 15/2016 | 4  | Jun 15/2016 |
| 19   | Jun 15/2016 | 6  | Jun 15/2016 | 5  | Jun 15/2016 |
| 20   | Jun 15/2016 | 7  | Jun 15/2016 | 6  | Jun 15/2016 |
| R 21                                       | Jun 15/2016 | 8  | Jun 15/2016 | 7  | Jun 15/2016 |
| 22   | Jun 15/2016 | 9  | Jun 15/2016 | R 8  | Jun 15/2016 |
| 23   | Jun 15/2016 | 10   | Jun 15/2016 | R 9  | Jun 15/2016 |
| 24   | Jun 15/2016 | R 11                                       | Jun 15/2016 | 10   | Jun 15/2016 |
| 25   | Jun 15/2016 | 12   | Jun 15/2016 | 11   | Jun 15/2016 |
| 26   | Jun 15/2016 | R 13                                       | Jun 15/2016 | 12   | Jun 15/2016 |
| 27   | Jun 15/2016 | 14   | BLANK       | 13   | Jun 15/2016 |
| 28   | BLANK       | 71-00-02 P/P BUILDUP FIGURE 16-1           |             | 14   | Jun 15/2016 |
| 71-00-02 P/P BUILDUP FIGURE 14-1           |             | 1  | Jun 15/2016 | R 15                                       | Jun 15/2016 |
| 1  | Jun 15/2016 | 2  | Jun 15/2016 | 16   | Jun 15/2016 |
| 2  | Jun 15/2016 | R 3  | Jun 15/2016 | 17   | Jun 15/2016 |
| 3  | Jun 15/2016 | 4  | Jun 15/2016 | 18   | Jun 15/2016 |
| R 4  | Jun 15/2016 | R 5  | Jun 15/2016 | R 19                                       | Jun 15/2016 |
| R 5  | Jun 15/2016 | 6  | Jun 15/2016 | 20   | Jun 15/2016 |
| 6  | Jun 15/2016 | R 7  | Jun 15/2016 | 21   | Jun 15/2016 |
| 7  | Jun 15/2016 | 8  | Jun 15/2016 | 22   | BLANK       |
| R 8  | Jun 15/2016 | R 9  | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 18-1           |             |
| R 9  | Jun 15/2016 | 10   | Jun 15/2016 | 1  | Jun 15/2016 |
| 10   | Jun 15/2016 | 11   | Jun 15/2016 | 2  | Jun 15/2016 |
| 11   | Jun 15/2016 | 12   | Jun 15/2016 | R 3  | Jun 15/2016 |
| 12   | Jun 15/2016 | 13   | Jun 15/2016 | 4  | Jun 15/2016 |
| R 13                                       | Jun 15/2016 | 14   | Jun 15/2016 | 5  | Jun 15/2016 |
| 14   | Jun 15/2016 | 15   | Jun 15/2016 | 6  | Jun 15/2016 |
| 15   | Jun 15/2016 | 16   | Jun 15/2016 | 7  | Jun 15/2016 |
| 16   | Jun 15/2016 | 17   | Jun 15/2016 | 8  | Jun 15/2016 |

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**71-EFFECTIVE PAGES**

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**CHAPTER 71**  
**POWERPLANT BUILDUP**

| Subject/Page                               | Date | Subject/Page                               | Date | Subject/Page                               | Date |
|--|------|--|------|--|------|
| 71-00-02 P/P BUILDUP FIGURE 18-1<br>(cont) |      | 71-00-02 P/P BUILDUP FIGURE 21-1<br>(cont) |      | 71-00-02 P/P BUILDUP FIGURE 24-1<br>(cont) |      |
| 9 Jun 15/2016                              |      | 22 Jun 15/2016                             |      | 10 Jun 15/2016                             |      |
| 10 Jun 15/2016                             |      | 23 Jun 15/2016                             |      | R 11 Jun 15/2016                           |      |
| 11 Jun 15/2016                             |      | 24 Jun 15/2016                             |      | 12 Jun 15/2016                             |      |
| 12 BLANK                                   |      | 25 Jun 15/2016                             |      | R 13 Jun 15/2016                           |      |
| 71-00-02 P/P BUILDUP FIGURE 20-1           |      | 26 Jun 15/2016                             |      | 14 Jun 15/2016                             |      |
| 1 Jun 15/2016                              |      | 27 Jun 15/2016                             |      | R 15 Jun 15/2016                           |      |
| 2 Jun 15/2016                              |      | 28 Jun 15/2016                             |      | 16 Jun 15/2016                             |      |
| 3 Jun 15/2016                              |      | 29 Jun 15/2016                             |      | 17 Jun 15/2016                             |      |
| 4 Jun 15/2016                              |      | 30 BLANK                                   |      | 18 Jun 15/2016                             |      |
| 5 Jun 15/2016                              |      | 71-00-02 P/P BUILDUP FIGURE 22-1           |      | R 19 Jun 15/2016                           |      |
| 6 Jun 15/2016                              |      | 1 Jun 15/2016                              |      | 20 Jun 15/2016                             |      |
| 7 Jun 15/2016                              |      | 2 Jun 15/2016                              |      | 21 Jun 15/2016                             |      |
| 8 Jun 15/2016                              |      | 3 Jun 15/2016                              |      | 22 Jun 15/2016                             |      |
| 9 Jun 15/2016                              |      | 4 Jun 15/2016                              |      | 23 Jun 15/2016                             |      |
| 10 Jun 15/2016                             |      | 5 Jun 15/2016                              |      | 24 BLANK                                   |      |
| 11 Jun 15/2016                             |      | 6 Jun 15/2016                              |      | 71-00-02 P/P BUILDUP FIGURE 25-1           |      |
| 12 Jun 15/2016                             |      | R 7 Jun 15/2016                            |      | 1 Jun 15/2016                              |      |
| 13 Jun 15/2016                             |      | 8 Jun 15/2016                              |      | 2 Jun 15/2016                              |      |
| 14 BLANK                                   |      | 9 Jun 15/2016                              |      | 3 Jun 15/2016                              |      |
| 71-00-02 P/P BUILDUP FIGURE 21-1           |      | 10 Jun 15/2016                             |      | 4 Jun 15/2016                              |      |
| 1 Jun 15/2016                              |      | 11 Jun 15/2016                             |      | R 5 Jun 15/2016                            |      |
| 2 Jun 15/2016                              |      | 12 Jun 15/2016                             |      | 6 Jun 15/2016                              |      |
| 3 Jun 15/2016                              |      | 13 Jun 15/2016                             |      | 7 Jun 15/2016                              |      |
| 4 Jun 15/2016                              |      | 14 Jun 15/2016                             |      | 8 Jun 15/2016                              |      |
| 5 Jun 15/2016                              |      | 15 Jun 15/2016                             |      | R 9 Jun 15/2016                            |      |
| 6 Jun 15/2016                              |      | 16 BLANK                                   |      | 10 Jun 15/2016                             |      |
| 7 Jun 15/2016                              |      | 71-00-02 P/P BUILDUP FIGURE 23-1           |      | 11 Jun 15/2016                             |      |
| 8 Jun 15/2016                              |      | 1 Jun 15/2016                              |      | 12 Jun 15/2016                             |      |
| 9 Jun 15/2016                              |      | 2 Jun 15/2016                              |      | 13 Jun 15/2016                             |      |
| 10 Jun 15/2016                             |      | R 3 Jun 15/2016                            |      | 14 Jun 15/2016                             |      |
| 11 Jun 15/2016                             |      | 4 BLANK                                    |      | 15 Jun 15/2016                             |      |
| 12 Jun 15/2016                             |      | 71-00-02 P/P BUILDUP FIGURE 24-1           |      | 16 Jun 15/2016                             |      |
| 13 Jun 15/2016                             |      | 1 Jun 15/2016                              |      | 17 Jun 15/2016                             |      |
| 14 Jun 15/2016                             |      | 2 Jun 15/2016                              |      | 18 Jun 15/2016                             |      |
| 15 Jun 15/2016                             |      | R 3 Jun 15/2016                            |      | 19 Jun 15/2016                             |      |
| 16 Jun 15/2016                             |      | 4 Jun 15/2016                              |      | 20 Jun 15/2016                             |      |
| 17 Jun 15/2016                             |      | 5 Jun 15/2016                              |      | 21 Jun 15/2016                             |      |
| 18 Jun 15/2016                             |      | 6 Jun 15/2016                              |      | 22 BLANK                                   |      |
| R 19 Jun 15/2016                           |      | 7 Jun 15/2016                              |      | 71-00-02 P/P BUILDUP FIGURE 27-1           |      |
| 20 Jun 15/2016                             |      | 8 Jun 15/2016                              |      | 1 Jun 15/2016                              |      |
| 21 Jun 15/2016                             |      | 9 Jun 15/2016                              |      | R 2 Jun 15/2016                            |      |

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**71-EFFECTIVE PAGES**

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**CHAPTER 71**  
**POWERPLANT BUILDUP**

| Subject/Page                               | Date        | Subject/Page                               | Date        | Subject/Page                     | Date        |
|--|-------------|--|-------------|----------------------------------|-------------|
| 71-00-02 P/P BUILDUP FIGURE 27-1<br>(cont) |             | 71-00-02 P/P BUILDUP FIGURE 28-1<br>(cont) |             | 71-00-02 P/P BUILDUP FIGURE 30-1 |             |
| 3  | Jun 15/2016 | R 19                                       | Jun 15/2016 | 1                                | Jun 15/2016 |
| 4  | Jun 15/2016 | R 20                                       | Jun 15/2016 | 2                                | Jun 15/2016 |
| 5  | Jun 15/2016 | R 21                                       | Jun 15/2016 | 3                                | Jun 15/2016 |
| 6  | Jun 15/2016 | R 22                                       | Jun 15/2016 | 4                                | Jun 15/2016 |
| R 7  | Jun 15/2016 | R 23                                       | Jun 15/2016 | 5                                | Jun 15/2016 |
| 8  | Jun 15/2016 | R 24                                       | Jun 15/2016 | 6                                | Jun 15/2016 |
| 9  | Jun 15/2016 | R 25                                       | Jun 15/2016 | 7                                | Jun 15/2016 |
| 10   | Jun 15/2016 | R 26                                       | Jun 15/2016 | 8                                | Jun 15/2016 |
| R 11                                       | Jun 15/2016 | R 27                                       | Jun 15/2016 | 9                                | Jun 15/2016 |
| 12   | Jun 15/2016 | R 28                                       | Jun 15/2016 | 10                               | Jun 15/2016 |
| R 13                                       | Jun 15/2016 | R 29                                       | Jun 15/2016 | 11                               | Jun 15/2016 |
| 14   | Jun 15/2016 | R 30                                       | Jun 15/2016 | 12                               | Jun 15/2016 |
| 15   | Jun 15/2016 | R 31                                       | Jun 15/2016 | 13                               | Jun 15/2016 |
| 16   | Jun 15/2016 | R 32                                       | Jun 15/2016 | 14                               | BLANK       |
| 17   | Jun 15/2016 | R 33                                       | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 31-1 |             |
| 18   | Jun 15/2016 | R 34                                       | Jun 15/2016 | 1                                | Jun 15/2016 |
| R 19                                       | Jun 15/2016 | R 35                                       | Jun 15/2016 | 2                                | Jun 15/2016 |
| 20   | Jun 15/2016 | R 36                                       | Jun 15/2016 | R 3                              | Jun 15/2016 |
| 21   | Jun 15/2016 | R 37                                       | Jun 15/2016 | 4                                | Jun 15/2016 |
| 22   | Jun 15/2016 | R 38                                       | Jun 15/2016 | R 5                              | Jun 15/2016 |
| 23   | Jun 15/2016 | R 39                                       | Jun 15/2016 | 6                                | Jun 15/2016 |
| 24   | BLANK       | R 40                                       | Jun 15/2016 | R 7                              | Jun 15/2016 |
| 71-00-02 P/P BUILDUP FIGURE 28-1           |             | R 41                                       | Jun 15/2016 | 8                                | BLANK       |
| 1  | Jun 15/2016 | R 42                                       | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 32-2 |             |
| 2  | Jun 15/2016 | R 43                                       | Jun 15/2016 | 1                                | Jun 15/2016 |
| R 3  | Jun 15/2016 | R 44                                       | Jun 15/2016 | 2                                | Jun 15/2016 |
| 4  | Jun 15/2016 | R 45                                       | Jun 15/2016 | 3                                | Jun 15/2016 |
| 5  | Jun 15/2016 | R 46                                       | Jun 15/2016 | 4                                | Jun 15/2016 |
| 6  | Jun 15/2016 | R 47                                       | Jun 15/2016 | R 5                              | Jun 15/2016 |
| R 7  | Jun 15/2016 | 48   | BLANK       | 6                                | Jun 15/2016 |
| 8  | Jun 15/2016 | 71-00-02 P/P BUILDUP FIGURE 29-1           |             | R 7                              | Jun 15/2016 |
| 9  | Jun 15/2016 | 1  | Jun 15/2016 | 8                                | Jun 15/2016 |
| 10   | Jun 15/2016 | 2  | Jun 15/2016 | 9                                | Jun 15/2016 |
| 11   | Jun 15/2016 | 3  | Jun 15/2016 | 10                               | Jun 15/2016 |
| 12   | Jun 15/2016 | 4  | Jun 15/2016 | R 11                             | Jun 15/2016 |
| R 13                                       | Jun 15/2016 | R 5  | Jun 15/2016 | 12                               | Jun 15/2016 |
| 14   | Jun 15/2016 | 6  | Jun 15/2016 | R 13                             | Jun 15/2016 |
| 15   | Jun 15/2016 | 7  | Jun 15/2016 | 14                               | Jun 15/2016 |
| R 16                                       | Jun 15/2016 | 8  | Jun 15/2016 | R 15                             | Jun 15/2016 |
| R 17                                       | Jun 15/2016 | 9  | Jun 15/2016 | 16                               | Jun 15/2016 |
| R 18                                       | Jun 15/2016 | 10   | BLANK       | 17                               | Jun 15/2016 |
|  |             |  |             | 18                               | Jun 15/2016 |

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**71-EFFECTIVE PAGES**

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**CHAPTER 71**  
**POWERPLANT BUILDUP**

| Subject/Page                               | Date        | Subject/Page | Date | Subject/Page | Date |
|--|-------------|--------------|------|--------------|------|
| 71-00-02 P/P BUILDUP FIGURE 32-2<br>(cont) |             |              |      |              |      |
| 19   | Jun 15/2016 |              |      |              |      |
| 20   | BLANK       |              |      |              |      |
| 71-00-02 P/P BUILDUP FIGURE 33-1           |             |              |      |              |      |
| 1  | Jun 15/2016 |              |      |              |      |
| 2  | Jun 15/2016 |              |      |              |      |
| 3  | Jun 15/2016 |              |      |              |      |
| 4  | Jun 15/2016 |              |      |              |      |
| 5  | Jun 15/2016 |              |      |              |      |
| 6  | Jun 15/2016 |              |      |              |      |
| 7  | Jun 15/2016 |              |      |              |      |
| 8  | Jun 15/2016 |              |      |              |      |
| 9  | Jun 15/2016 |              |      |              |      |
| 10   | Jun 15/2016 |              |      |              |      |
| 11   | Jun 15/2016 |              |      |              |      |
| 12   | Jun 15/2016 |              |      |              |      |
| 13   | Jun 15/2016 |              |      |              |      |
| 14   | Jun 15/2016 |              |      |              |      |
| 15   | Jun 15/2016 |              |      |              |      |
| 16   | Jun 15/2016 |              |      |              |      |
| 17   | Jun 15/2016 |              |      |              |      |
| 18   | Jun 15/2016 |              |      |              |      |
| R 19                                       | Jun 15/2016 |              |      |              |      |
| 20   | Jun 15/2016 |              |      |              |      |
| 21   | Jun 15/2016 |              |      |              |      |
| 22   | Jun 15/2016 |              |      |              |      |
| 23   | Jun 15/2016 |              |      |              |      |
| 24   | BLANK       |              |      |              |      |
| 71-00-03 QEC SYSTEM TESTS FIGURE 1         |             |              |      |              |      |
| 1  | Jun 15/2016 |              |      |              |      |
| 2  | Jun 15/2016 |              |      |              |      |
| 71-00-04 QEC INSPECTION/CHECK<br>FIGURE 1  |             |              |      |              |      |
| 1  | Jun 15/2016 |              |      |              |      |
| 2  | Jun 15/2016 |              |      |              |      |

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**71-EFFECTIVE PAGES**Page 6  
Jun 15/2016

D633A106-AKS

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**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**CHAPTER 71**  
**POWERPLANT BUILDUP**

| <u>SUBJECT</u>  | <u>CHAPTER</u><br><u>SECTION</u><br><u>SUBJECT</u> |
|---|--|
| <b>POWERPLANT BUILDUP</b>                                       | 71-00-02   |
| FIGURE 1-1, CFM56-7 SERIES POWERPLANT WITH QEC INSTALLED        |  |
| FIGURE 2-1, FORWARD ENGINE MOUNT INSTALLATION                   |  |
| FIGURE 3-1, AFT ENGINE MOUNT INSTALLATION                       |  |
| FIGURE 4-1, BRACKET INSTALLATION - UPPER LEFT FAN CASE          |  |
| FIGURE 5-1, BRACKET INSTALLATION - LOWER LEFT FAN CASE          |  |
| FIGURE 6-1, BRACKET INSTALLATION - RIGHT SIDE FAN CASE          |  |
| FIGURE 7-1, BRACKET INSTALLATION - LEFT SIDE CORE CASE          |  |
| FIGURE 8-1, BRACKET INSTALLATION - RIGHT SIDE CORE CASE         |  |
| FIGURE 9-1, DRAINS INSTL - LEFT SIDE FAN CASE                   |  |
| FIGURE 10-1, DRAINS INSTL - RIGHT SIDE FAN CASE                 |  |
| FIGURE 12-1, FUEL SUPPLY HOSE INSTALLATION                      |  |
| FIGURE 13-1, 12 O'CLOCK STRUT INSTALLATION                      |  |
| FIGURE 14-1, BLEED CONTROLLER INSTALLATION                      |  |
| FIGURE 15-1, BLEED CONTROL SYSTEM INSTALLATION - LOWER          |  |
| FIGURE 16-1, BLEED DUCT INSTALLATION - LOWER 5TH- AND 9TH-STAGE |  |
| FIGURE 17-1, BLEED CONTROL SYSTEM INSTALLATION - UPPER          |  |
| FIGURE 18-1, BLEED DUCT INSTALLATION - UPPER 5TH- AND 9TH-STAGE |  |
| FIGURE 20-1, HYDRAULIC PUMP INSTALLATION (VICKERS)              |  |
| FIGURE 21-1, HYDRAULIC PLUMBING INSTALLATION                    |  |
| FIGURE 22-1, INTEGRATED DRIVE GENERATOR INSTALLATION            |  |
| FIGURE 23-1, IDG AIR/OIL COOLER INSTALLATION                    |  |
| FIGURE 24-1, IDG PLUMBING INSTALLATION                          |  |
| FIGURE 25-1, STARTER VALVE AND DUCT INSTALLATION                |  |
| FIGURE 27-1, INLET COWL TAI SYSTEM INSTALLATION                 |  |
| FIGURE 28-1, FIRE/OVERHEAT DETECTOR INSTALLATION                |  |
| FIGURE 29-1, W1062 WIRE BUNDLE INSTALLATION                     |  |
| FIGURE 30-1, MARKERS INSTALLATION                               |  |

**71-CONTENTS**

737-600/700/800/900  
POWERPLANT BUILDUP MANUALCHAPTER 71  
POWERPLANT BUILDUP

| <u>SUBJECT</u>                            | <u>CHAPTER</u><br><u>SECTION</u><br><u>SUBJECT</u> |
|---|--|
| FIGURE 31-1, THRUST LINK INSTALLATION     |  |
| FIGURE 32-2, PRIMARY EXHAUST INSTALLATION |  |
| FIGURE 33-1, INLET COWL INSTALLATION      |  |
| <b>QEC SYSTEM TESTS</b>                   | 71-00-03   |
| FIGURE 1, QEC SYSTEM TESTS                |  |
| <b>QEC INSPECTION/CHECK</b>               | 71-00-04   |
| FIGURE 1, QEC INSPECTION/CHECK            |  |

## 71-CONTENTS

**FIGURE 1-1**

## **CFM56-7 SERIES POWERPLANT WITH QEC INSTALLED**

**REF DWG: 300A2020**

**71-00-02**

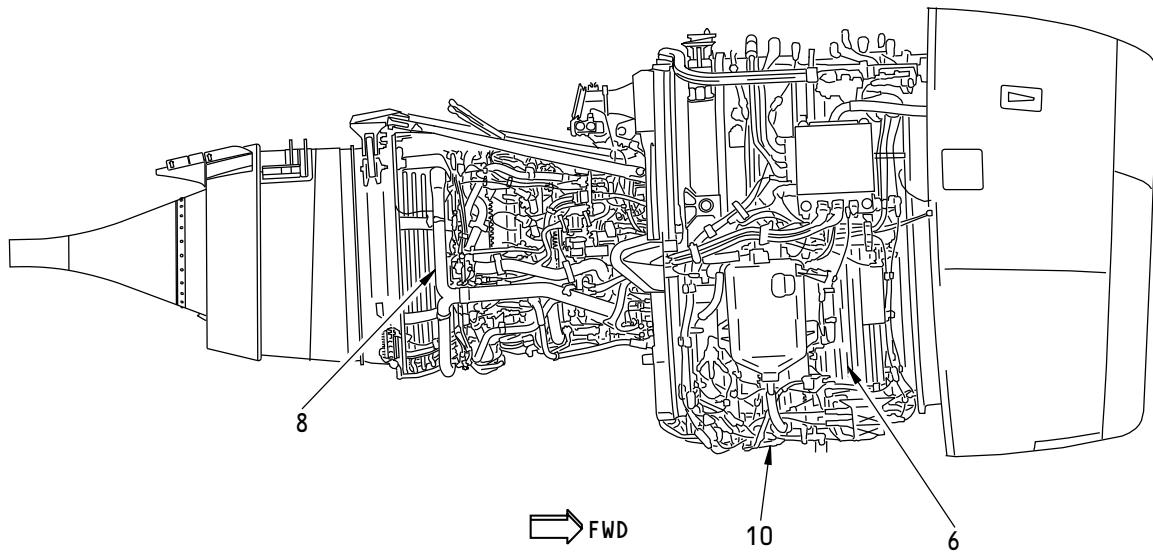
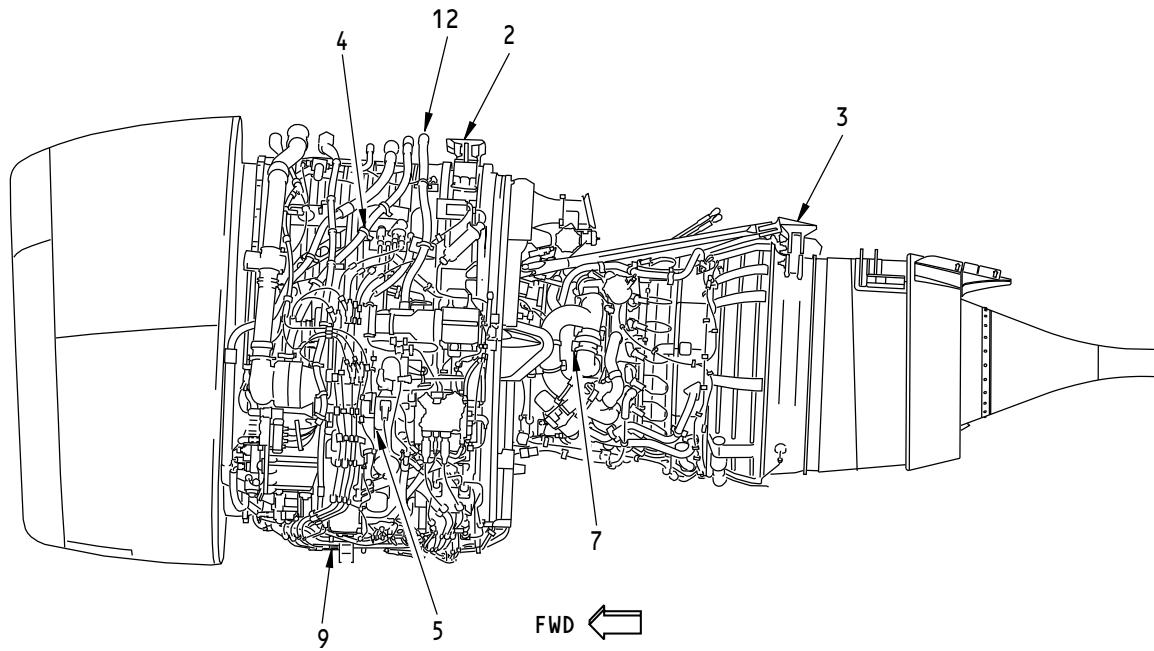
**SUBJECT INDEX FIGURE 1-1**

**Page 1**

**Jun 15/2016**

**D633A106-AKS**

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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CFM56-7 Powerplant with QEC Installed  
Figure 1-1 (Sheet 1)

71-00-02

SUBJECT INDEX FIGURE 1-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | FIGURE TITLE   | FIGURE |
|----------|--|--------|
| 1-1      | <b>CFM56-7 POWERPLANT WITH QEC INSTALLED (FIGURE 1-1, SHEET 1)</b> |        |
| 2        | FORWARD ENGINE MOUNT INSTALLATION                                  | 2-1    |
| 3        | AFT ENGINE MOUNT INSTALLATION                                      | 3-1    |
| 4        | BRACKET INSTALLATION - UPPER LEFT FAN CASE                         | 4-1    |
| 5        | BRACKET INSTALLATION - LOWER LEFT FAN CASE                         | 5-1    |
| 6        | BRACKET INSTALLATION - RIGHT SIDE FAN CASE                         | 6-1    |
| 7        | BRACKET INSTALLATION - LEFT SIDE CORE CASE                         | 7-1    |
| 8        | BRACKET INSTALLATION - RIGHT SIDE CORE CASE                        | 8-1    |
| 9        | DRAINS INSTL - LEFT SIDE FAN CASE                                  | 9-1    |
| 10       | DRAINS INSTL - RIGHT SIDE FAN CASE                                 | 10-1   |
| 12       | FUEL SUPPLY HOSE INSTALLATION                                      | 12-1   |

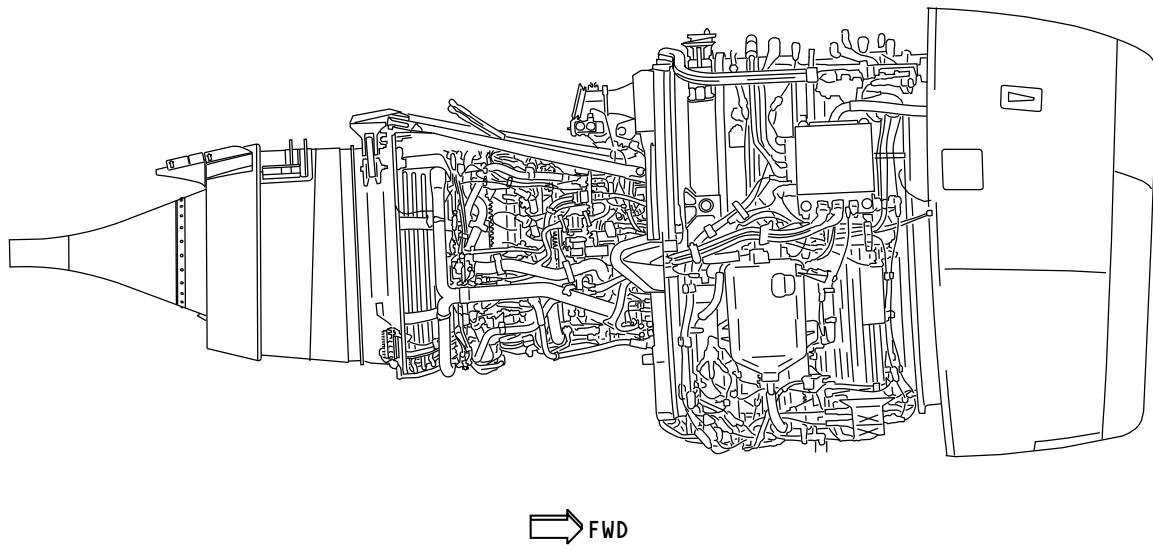
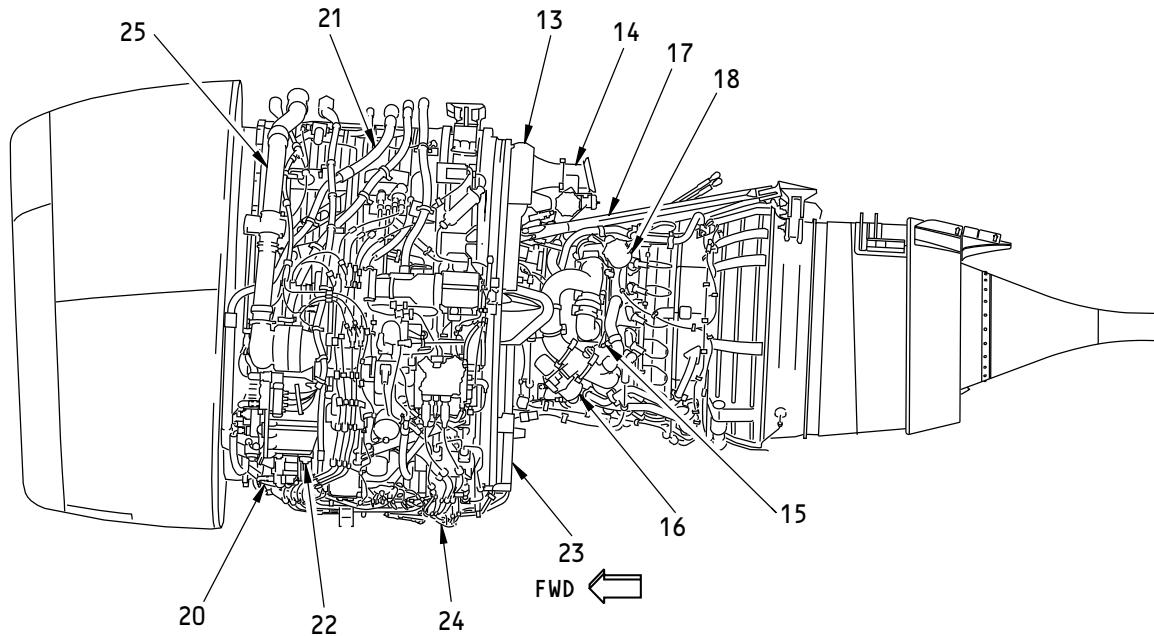
**71-00-02****SUBJECT INDEX FIGURE 1-1**

Page 3

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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CFM56-7 Powerplant with QEC Installed  
Figure 1-1 (Sheet 2)

71-00-02

SUBJECT INDEX FIGURE 1-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | FIGURE TITLE   | FIGURE |
|----------|--|--------|
| 1-1      | <b>CFM56-7 POWERPLANT WITH QEC INSTALLED (FIGURE 1-1, SHEET 2)</b> |        |
| 13       | 12 O'CLOCK STRUT INSTALLATION                                      | 13-1   |
| 14       | BLEED CONTROLLER INSTALLATION                                      | 14-1   |
| 15       | BLEED CONTROL SYSTEM INSTALLATION - LOWER                          | 15-1   |
| 16       | BLEED DUCT INSTALLATION - LOWER 5TH- AND 9TH-STAGE                 | 16-1   |
| 17       | BLEED CONTROL SYSTEM INSTALLATION - UPPER                          | 17-1   |
| 18       | BLEED DUCT INSTALLATION - UPPER 5TH- AND 9TH-STAGE                 | 18-1   |
| 20       | HYDRAULIC PUMP INSTALLATION (VICKERS)                              | 20-1   |
| 21       | HYDRAULIC PLUMBING INSTALLATION                                    | 21-1   |
| 22       | INTEGRATED DRIVE GENERATOR INSTALLATION                            | 22-1   |
| 23       | IDG AIR/OIL COOLER INSTALLATION                                    | 23-1   |
| 24       | IDG PLUMBING INSTALLATION  | 24-1   |
| 25       | STARTER VALVE AND DUCT INSTALLATION                                | 25-1   |

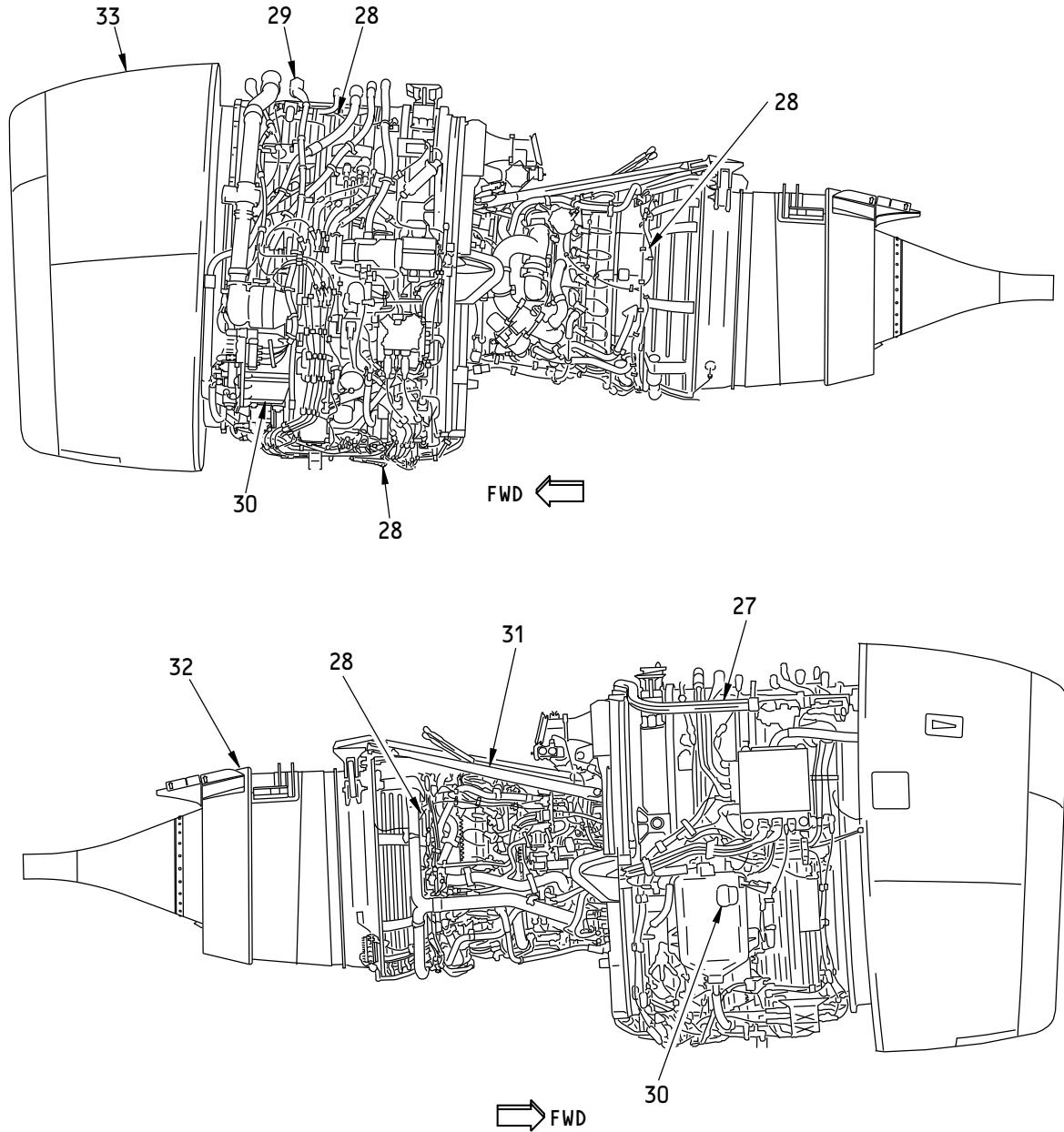
**71-00-02****SUBJECT INDEX FIGURE 1-1**

Page 5

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

2103708 S0000448651\_V1

CFM56-7 Powerplant with QEC Installed  
Figure 1-1 (Sheet 3)

71-00-02

SUBJECT INDEX FIGURE 1-1

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | FIGURE TITLE   | FIGURE |
|----------|--|--------|
| 1-1      | <b>CFM56-7 POWERPLANT WITH QEC INSTALLED (FIGURE 1-1, SHEET 3)</b> |        |
| 27       | INLET COWL TAI SYSTEM INSTALLATION                                 | 27-1   |
| 28       | FIRE/OVERHEAT DETECTOR INSTALLATION                                | 28-1   |
| 29       | W1062 WIRE BUNDLE INSTALLATION                                     | 29-1   |
| 30       | MARKERS INSTALLATION   | 30-1   |
| 31       | THRUST LINK INSTALLATION   | 31-1   |
| 32       | PRIMARY EXHAUST INSTALLATION                                       | 32-2   |
| 33       | INLET COWL INSTALLATION  | 33-1   |

**71-00-02****SUBJECT INDEX FIGURE 1-1**

Page 7

Jun 15/2016

D633A106-AKS

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**FIGURE 2-1**

**FORWARD ENGINE MOUNT INSTALLATION**

**REF QEC TASK NO.: 2**

**REF DWG: 310A2020  
310A2010**

**71-00-02**

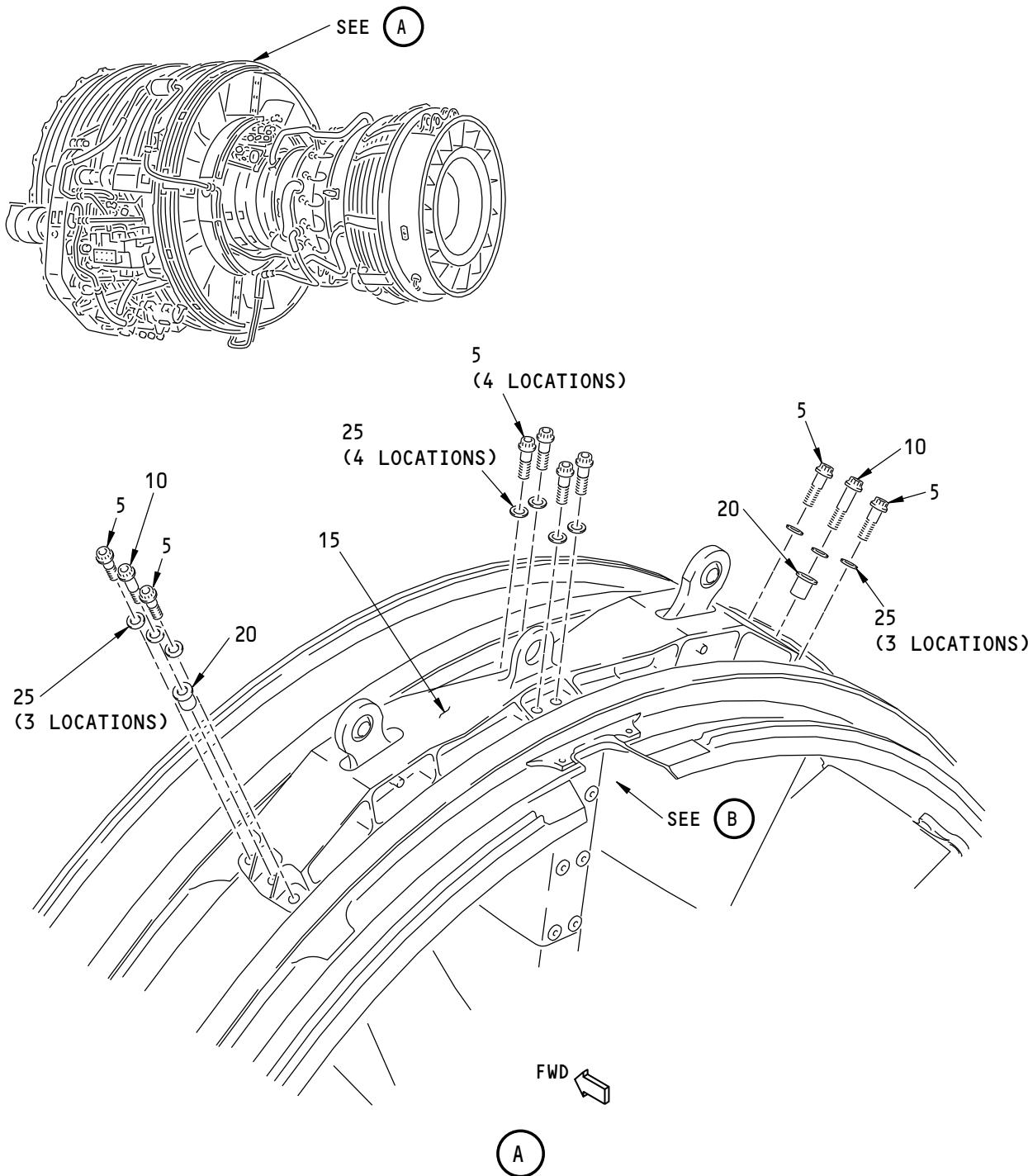
**P/P BUILDUP FIGURE 2-1**

**Page 1**

**Jun 15/2016**

**D633A106-AKS**

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F03135 S00041153626\_V1

Forward Engine Mount Installation  
Figure 2-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 2-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

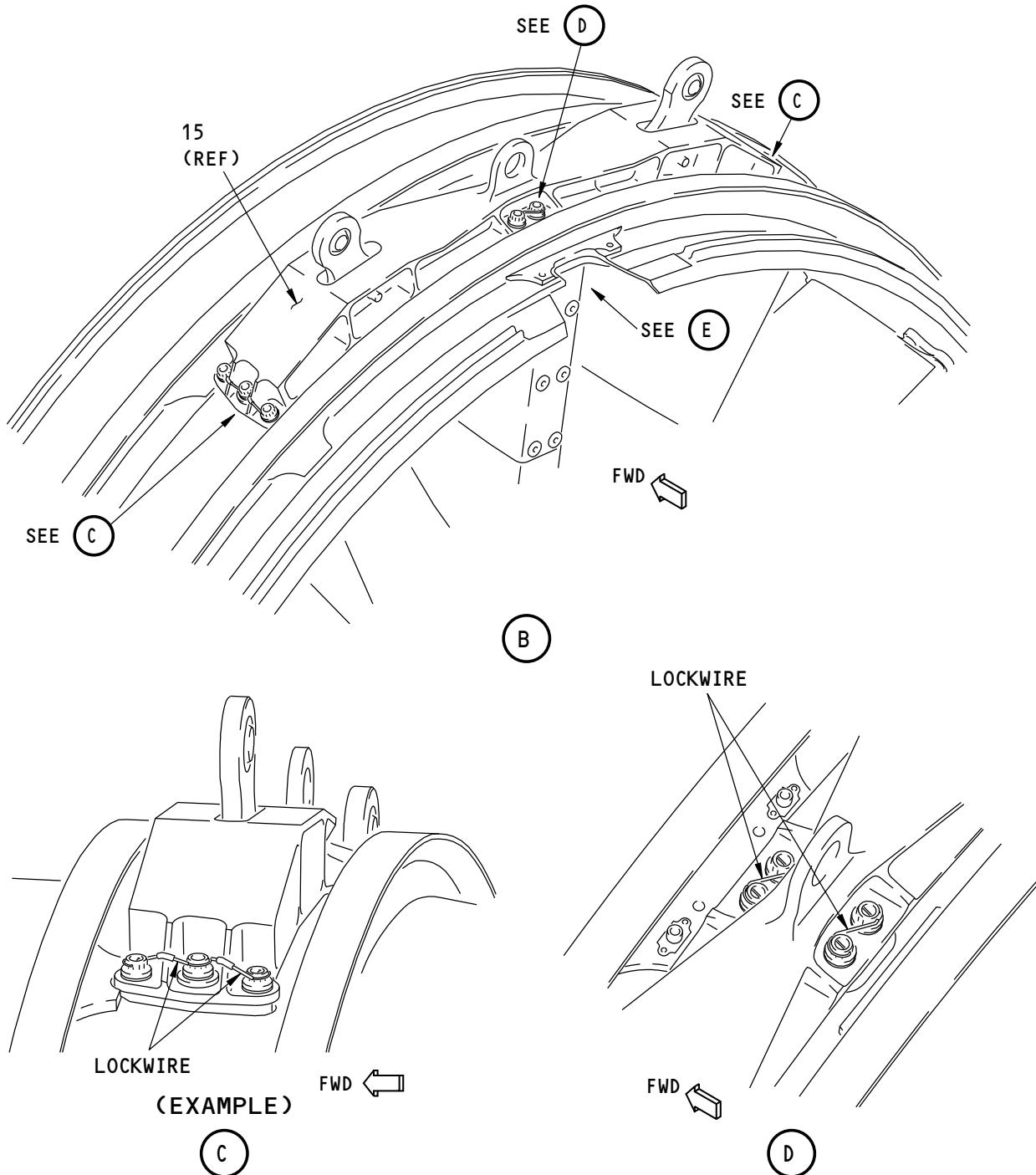
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 2-1      |              | <b>FORWARD ENGINE MOUNT INSTALLATION</b><br><b>(FIGURE 2-1, SHEET 1)</b> <p><b>NOTE:</b> DUE TO LIMITED ACCESS, IT IS RECOMMENDED THAT BRACKET INSTALLATION - UPPER LEFT FAN CASE/ Figure 4-1, ITEM NO. (800) BRACKET ASSY BE INSTALLED PRIOR TO FORWARD MOUNT SUB-ASSY (15) INSTALLATION.</p> <p>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO THREADS AND UNDERSIDE HEAD OF BOLTS (5) AND (10).</p> <p><b>NOTE:</b> DO NOT APPLY LUBRICANT IN HEAVY AMOUNTS.</p> |     |     |
| 5        | 310A2029-11  | . BOLT   |     | 8   |
| 10       | 310A2029-19  | . BOLT   |     | 2   |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND  | CON | AR  |
|          |              | <b>WARNING:</b> FWD MOUNT SUB-ASSY WEIGHS APPROXIMATELY 55 POUNDS (25 KG). MAKE SURE YOU USE A SLING OR A SUFFICIENT NUMBER OF PERSONS TO LIFT THE MOUNT ONTO ENGINE. IF YOU DO NOT, MOUNT CAN FALL AND CAUSE INJURIES TO PERSONS.   |     |     |
| 15       | 310A2020-12  | USE SLING OR TWO PERSONS TO POSITION FWD MOUNT SUB-ASSY (15) ON ENGINE FAN FRAME BETWEEN FLANGES B7 AND B8. <p>. FWD MOUNT SUB-ASSY</p>  |     | 1   |
|          |              | LOOSELY SECURE FWD MOUNT SUB-ASSY (15) TO ENGINE WITH LUBRICATED BOLTS (5) AND (10), BUSHINGS (20) AND WASHERS (25). MAKE SURE BOLTS (10) AND BUSHINGS (20) ARE IN OUTBOARD CENTER POSITION ONLY AND CSK SIDE OF WASHER IS AGAINST BOLT HEAD.  |     |     |
| 20       | 310A2020-6   | . BUSHING  |     | 2   |
| 25       | BACW10BP8ACU | . WASHER (CSK)   |     | 10  |

**71-00-02****P/P BUILDUP FIGURE 2-1**

Page 3

Jun 15/2016

D633A106-AKS



F03287 S00041153627\_V1

**Forward Engine Mount Installation**  
**Figure 2-1 (Sheet 2)**

**71-00-02****P/P BUILDUP FIGURE 2-1**

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 2-1      |             | <b>FORWARD ENGINE MOUNT INSTALLATION</b><br><b>(FIGURE 2-1, SHEET 2)</b><br><br>TIGHTEN BOLTS (5) AND (10) TO 585-715 POUND-INCHES (66-81 NEWTON METERS).<br>ATTACH MS20995NC32 lockwire, G01912 (C2) OR safety cable kit, G50375 (C3) BETWEEN BOLTS (5) AT 12 O'CLOCK POSITION AND BETWEEN OUTBOARD BOLTS (5) AND (10). COVER EXPOSED LOCKWIRE OR SAFETY CABLE WITH Tyco Fluoroelastomer Tubing, G50043 (C4) OR Viton sleeve, G50044 (C5) BETWEEN FASTENER HEADS TO PREVENT CONTACT WITH LOCKWIRE AND FAN CASE FITTING. |     |     |
| C2       | G01912      | . MS20995NC32 LOCKWIRE   | CON | AR  |
| C3       | G50375      | . SAFETY CABLE KIT <sup>[1]</sup>  | CON | 1   |
| C4       | G50043      | . TYCO FLUOROELASTOMER TUBING  | CON | AR  |
| C5       | G50044      | . VITON SLEEVE   | OPT | -   |

\*[1] USE 12 OR 18 INCH LENGTH SAFETY CABLE

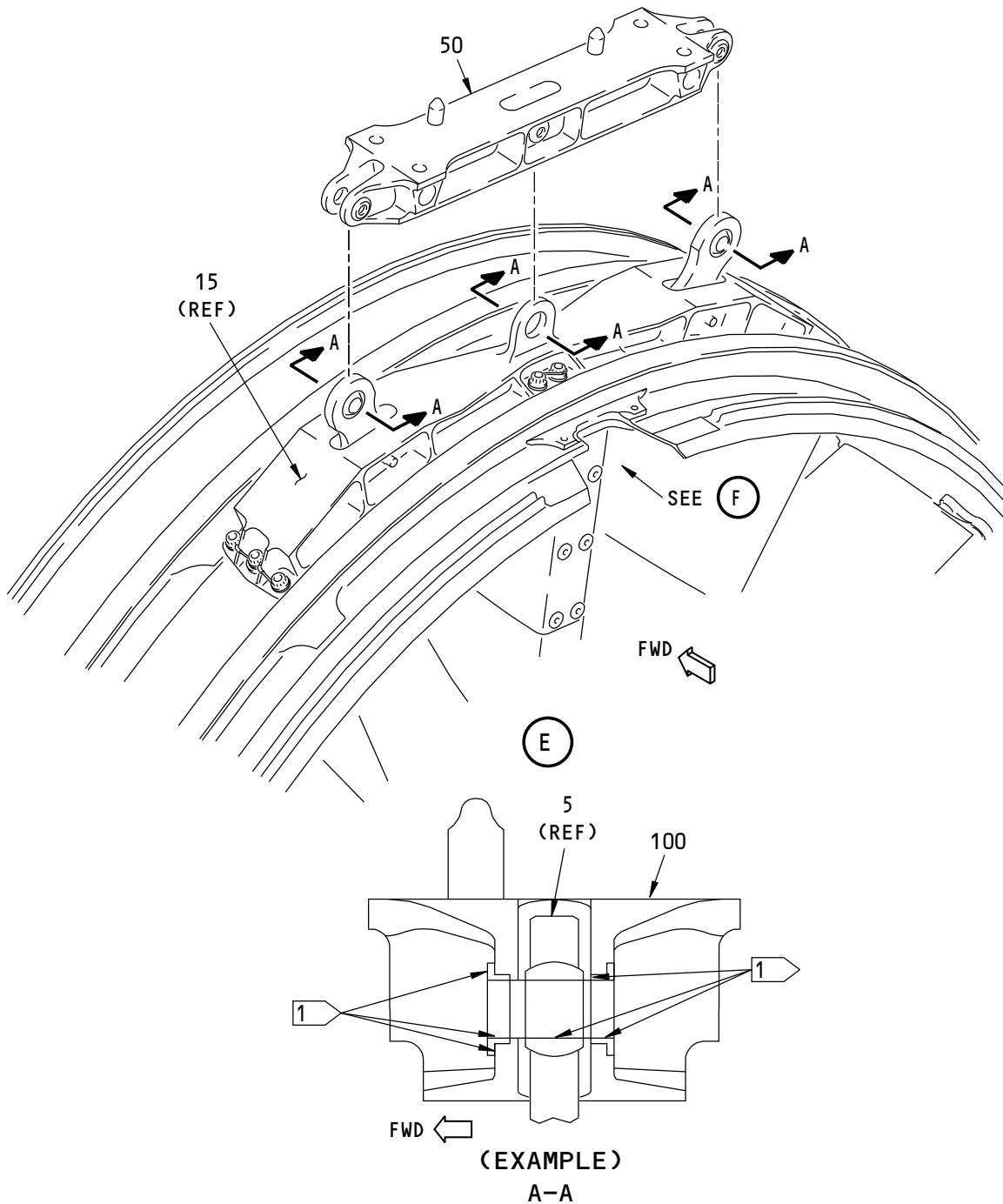
**71-00-02**

**P/P BUILDUP FIGURE 2-1**

Page 5

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

1 ◀ APPLY ANTI-SEIZE COMPOUND AS INDICATED.

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**Forward Engine Mount Installation**  
**Figure 2-1 (Sheet 3)**

**71-00-02**

**P/P BUILDUP FIGURE 2-1**

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

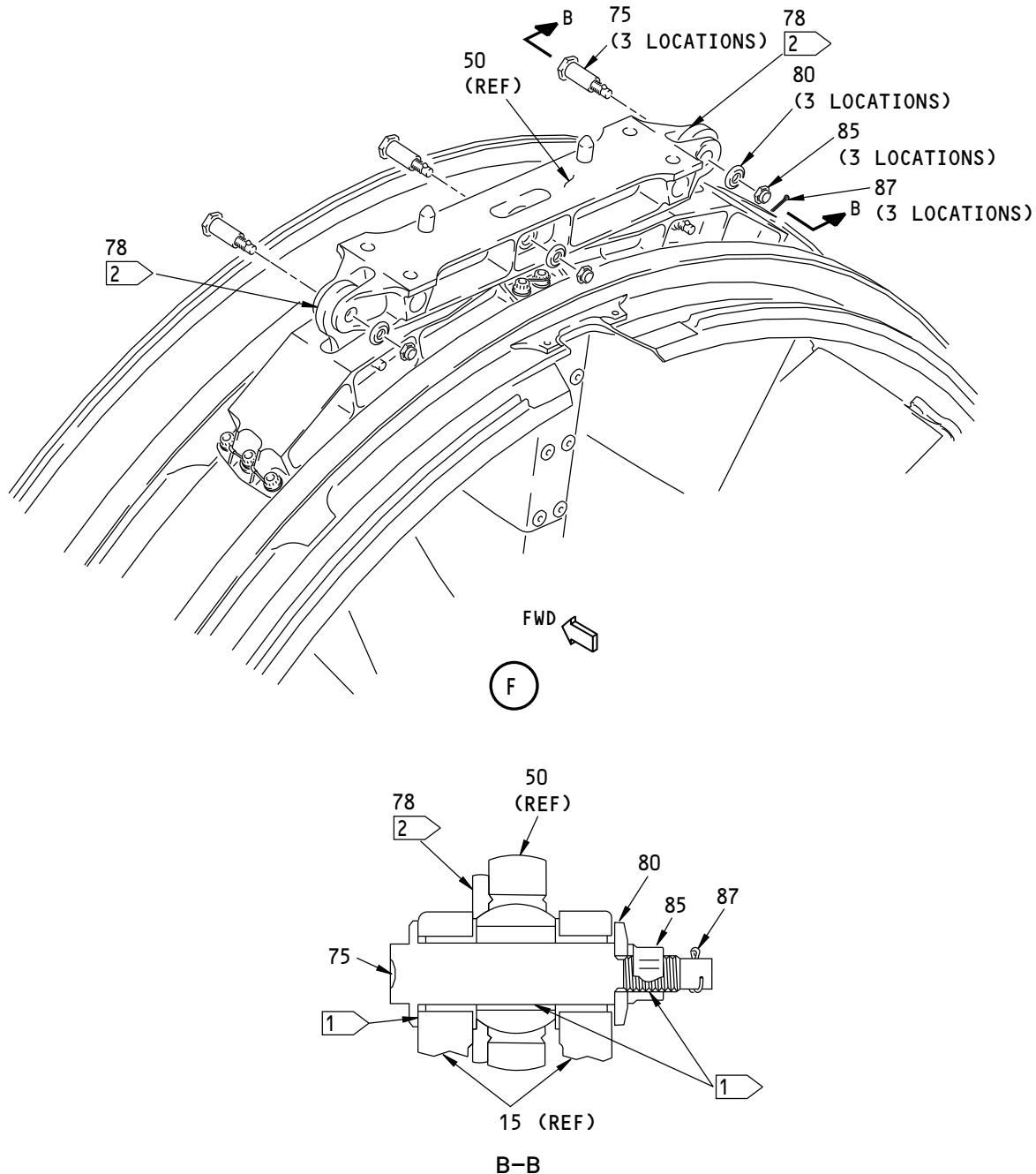
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 2-1      |             | <b>FORWARD ENGINE MOUNT INSTALLATION (FIGURE 2-1, SHEET 3)</b><br><br>POSITION HANGER FTG ASSY (50) ON FWD MOUNT SUB ASSY (15). MAKE SURE ALL HOLES ARE ALIGNED.<br><br><b>CAUTION:</b> MAKE SURE SHEAR PINS ARE ON FWD SIDE OF HANGER FTG ASSY. IF THEY ARE NOT, DAMAGE TO AIRPLANE STRUT CAN OCCUR DURING ENGINE INSTALLATION.                            |     |     |
| 50       | 310A2021-6  | . HANGER FTG ASSY<br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO SPHERICAL BEARING BORE AND BALL FLAT SURFACES OF HANGER FTG ASSY (50).<br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO BUSHING BORES AND FLANGE FACES OF FWD MOUNT SIDE LINKS.<br><br><b>NOTE:</b> DO NOT APPLY LUBRICANT IN HEAVY AMOUNTS. | 1   |     |
| C1       | D00006      | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 2-1**

Page 7

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

1 → APPLY ANTI-SEIZE COMPOUND AS INDICATED.

2 → INSTALL ON EITHER FORWARD OR AFT SIDE OF HANGER FITTING ASSEMBLY (50).

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**Forward Engine Mount Installation**  
**Figure 2-1 (Sheet 4)**

**71-00-02**  
**P/P BUILDUP FIGURE 2-1**

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER    | NOMENCLATURE  | UC  | QTY |
|----------|----------------|---|-----|-----|
| 2-1      |                | <b>FORWARD ENGINE MOUNT INSTALLATION (FIGURE 2-1, SHEET 4)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO THREADS, SHANK AND UNDERNEATH HEAD OF PINS (75).<br><br><u>NOTE:</u> DO NOT APPLY LUBRICANT IN HEAVY AMOUNTS.   |     |     |
| 75       | 310A2042-3     | . THRUST LINK PIN   |     | 3   |
| C1       | D00006         | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |
|          |                | INSTALL THRUST LINK PIN (75) WITH HEAD SIDE FORWARD IN THREE LOCATIONS ON HANGER FTG ASSY (50). INSTALL WASHER (78) BETWEEN EITHER FORWARD OR AFT SIDE OF HANGER FITTING ASSY (50) AND FORWARD MOUNT (15). ENSURE WASHER (78) CHAMFER FACES BEARING THEN ATTACH WITH END CAP (80) AND NUT (85).<br><br><u>NOTE:</u> MAKE SURE FLAT SIDE OF END CAP IS AGAINST PIN SHOULDER. |     |     |
| 78       | 310A2040-7     | . WASHER  |     | 2   |
| 80       | 310A2043-2     | . END CAP   |     | 3   |
| 85       | BACN10JC8CM    | . NUT   |     | 3   |
|          |                | TIGHTEN NUT (85) TO 290-510 POUND-INCHES (33-58 NEWTON METERS). APPLY TORQUE TO NUT.<br><br>INSTALL COTTER PINS (87).   |     |     |
| 87       | BACP18BC03B06P | . COTTER PIN  |     | 3   |
| 87       | BACP18BC03B07P | . COTTER PIN (OPTIONAL TO BACP18BC03B06P)   | OPT | -   |
| 87       | BACP18BC03B08P | . COTTER PIN (OPTIONAL TO BACP18BC03B06P)   | OPT | -   |

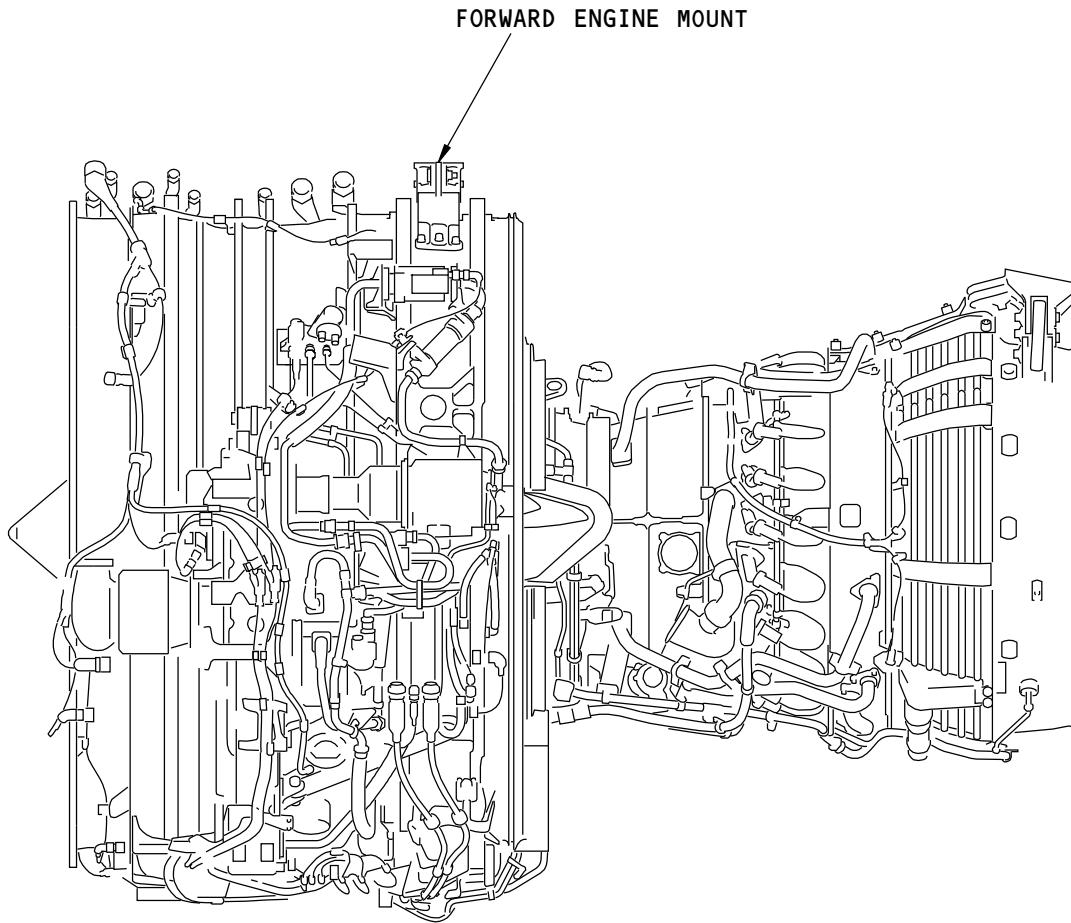
**71-00-02****P/P BUILDUP FIGURE 2-1**

Page 9

Jun 15/2016

D633A106-AKS

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**Forward Engine Mount Installation  
Figure 2-1 (Sheet 5)**

**71-00-02**  
**P/P BUILDUP FIGURE 2-1**  
Page 10  
Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER    | NOMENCLATURE  | UC  | QTY |
|----------|----------------|---|-----|-----|
| 2-1      |                | <b>FORWARD ENGINE MOUNT INSTALLATION</b><br><b>(FIGURE 2-1, SHEET 5)</b><br><br>PUT ITEMS (100) THRU (110) IN A BAG AND SECURE TO FWD MOUNT ASSY.<br><br><u>NOTE:</u> ITEMS (100) THRU (110) ARE INSTALLED DURING POWERPLANT INSTALLATION ON AIRPLANE STRUT (AMM PAGEBLOCK 71-00-02/401). |     |     |
| 100      | BACB30PN10-19M | . BOLT* <sup>[1]</sup>  |     | 4   |
| 100      | BACB30PN10-19  | . BOLT (OPTIONAL TO BACB30PN10-19M)* <sup>[1]</sup>   | OPT | -   |
| 105      | BACW10BP10ACU  | . WASHER* <sup>[1]</sup>  |     | 4   |
| 110      | SL4147CA10A    | . BARREL NUT ASSY (V97393)* <sup>[1]</sup>  | VEN | 4   |
|          |                | *[1] ITEM NOT ILLUSTRATED   |     |     |

**71-00-02****P/P BUILDUP FIGURE 2-1**

Page 11

Jun 15/2016

D633A106-AKS

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**FIGURE 3-1**

**AFT ENGINE MOUNT INSTALLATION**

**REF QEC TASK NO.: 3**

**REF DWG: 310A2030  
310A2010**

**71-00-02**

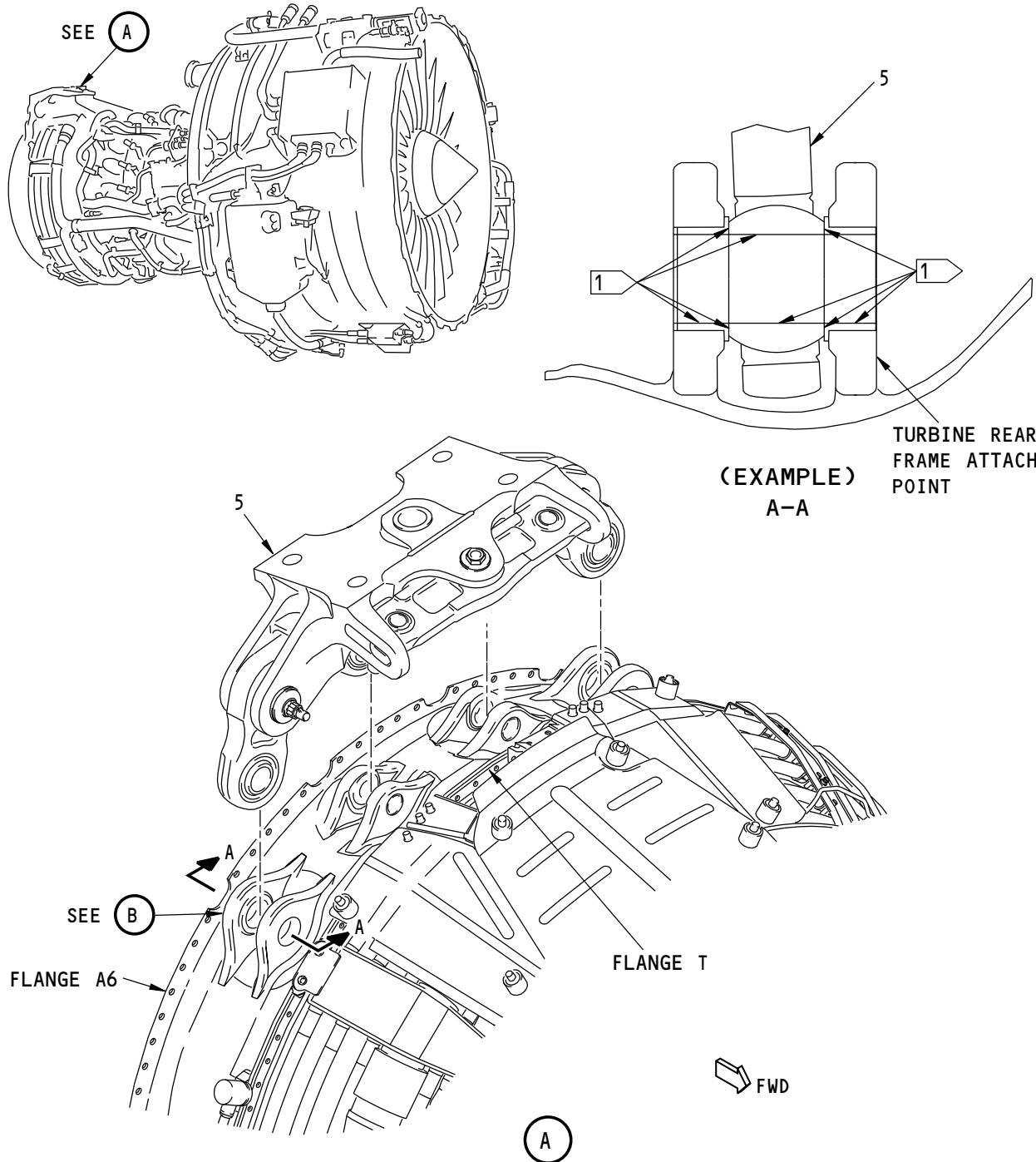
**P/P BUILDUP FIGURE 3-1**

**Page 1**

**Jun 15/2016**

**D633A106-AKS**

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1 ▶ APPLY ANTI-SEIZE COMPOUND AS INDICATED.

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**Aft Engine Mount Installation**  
**Figure 3-1 (Sheet 1)**

**71-00-02**  
**P/P BUILDUP FIGURE 3-1**

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

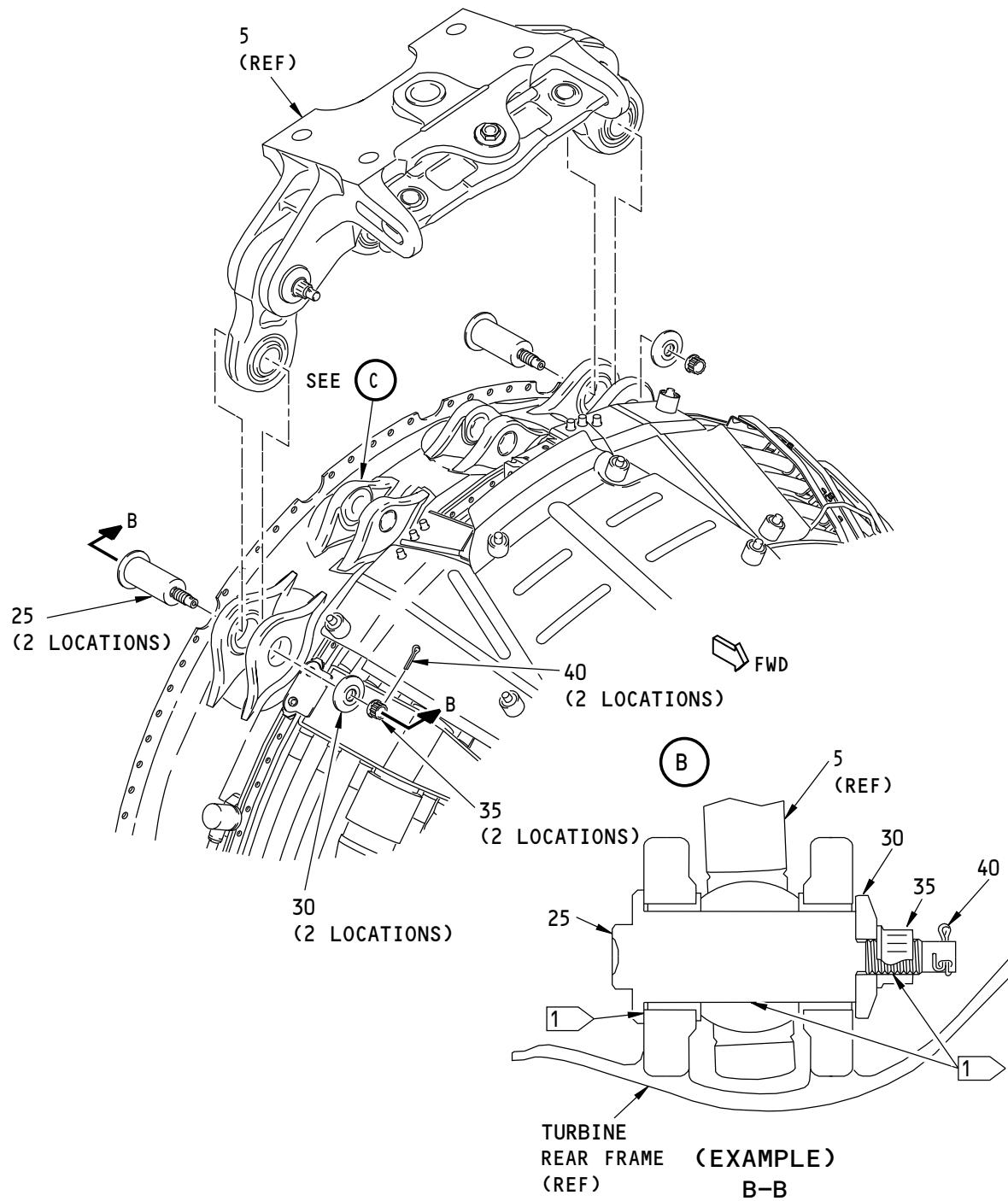
| ITEM NO. | PART NUMBER           | NOMENCLATURE  | UC  | QTY     |
|----------|-----------------------|---|-----|---------|
| 3-1      |                       | <b>AFT ENGINE MOUNT INSTALLATION<br/>(FIGURE 3-1, SHEET 1)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO SPHERICAL BEARING BORE AND BALL FLAT SURFACES OF AFT ENGINE MOUNT ASSY (5).<br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO BUSHING BORES AND FLANGE FACES OF TURBINE REAR FRAME ATTACH POINTS.<br><br><u>NOTE:</u> DO NOT APPLY LUBRICANT IN HEAVY AMOUNTS.<br><br>. AFT ENGINE MOUNT ASSY<br>. NEVER-SEEZ NSBT-8N COMPOUND<br><br><u>WARNING:</u> AFT ENGINE MOUNT ASSY WEIGHS APPROXIMATELY 80 POUNDS (36 KG). MAKE SURE YOU USE SLING OR SUFFICIENT NUMBER OF PERSONS TO LIFT MOUNT ONTO ENGINE. IF YOU DO NOT, MOUNT CAN FALL AND CAUSE INJURIES TO PERSONS.<br><br>ATTACH fixture, SPL-2107 (T1) TO AFT ENGINE MOUNT ASSY (5) AND POSITION MOUNT ON ENGINE TURBINE REAR FRAME BETWEEN FLANGES T AND A6.<br><br>. FIXTURE, SPL-2107 |     |         |
| 5<br>C1  | 310A2030-19<br>D00006 |   | CON | 1<br>AR |
| T1       | C71024-1              |   | TOL | -       |

**71-00-02****P/P BUILDUP FIGURE 3-1**

Page 3

Jun 15/2016

D633A106-AKS



1 ➤ APPLY ANTI-SEIZE COMPOUND AS INDICATED.

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**Aft Engine Mount Installation**  
**Figure 3-1 (Sheet 2)**

**71-00-02**  
**P/P BUILDUP FIGURE 3-1**

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

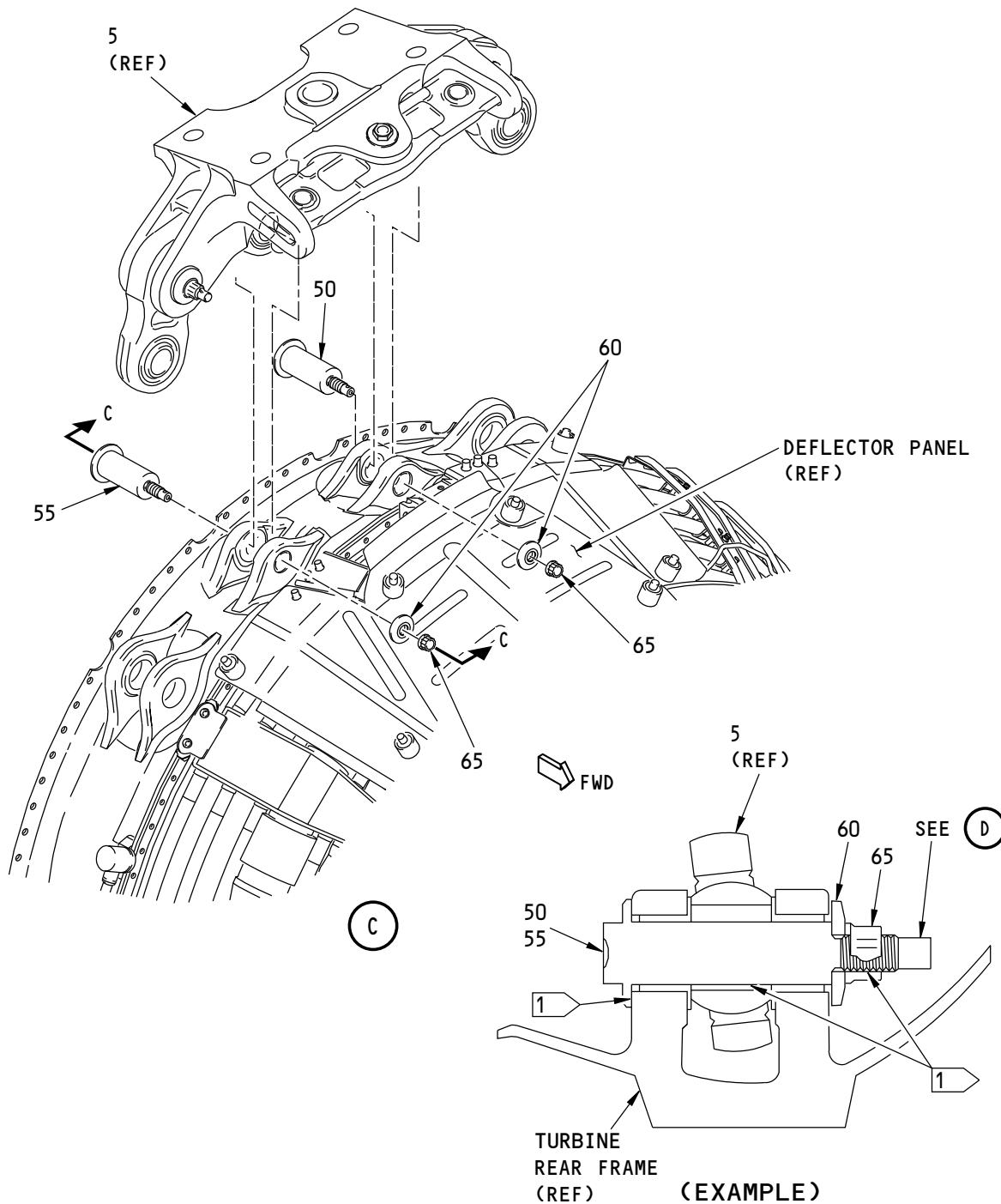
| ITEM NO. | PART NUMBER    | NOMENCLATURE  | UC  | QTY |
|----------|----------------|---|-----|-----|
| 3-1      |                | <b>AFT ENGINE MOUNT INSTALLATION<br/>(FIGURE 3-1, SHEET 2)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO THREADS, SHANK AND UNDERNEATH HEAD OF PIN (25).<br><b>NOTE:</b> DO NOT APPLY LUBRICANT IN HEAVY AMOUNTS.  |     |     |
| 25       | 310A2037-14    | . LINK PIN USED WITH COTTER PIN   |     | 2   |
| C1       | D00006         | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>INSTALL PIN (25) IN OUTBOARD LOCATIONS OF ENGINE MOUNT (5) AND ATTACH WITH END CAP (30) AND NUT (35).<br><b>NOTE:</b> MAKE SURE FLAT SIDE OF END CAP IS AGAINST PIN SHOULDER.<br><br>MAKE SURE NO PRELOAD IS PRESENT WHEN LINK PINS ARE INSTALLED. | CON | AR  |
| 30       | 310A2039-1     | . END CAP   |     | 2   |
| 35       | BACN11Z8C      | . NUT<br><br>TIGHTEN NUT (35) TO 440-650 POUND-INCHES (50-73 NEWTON METERS). APPLY TORQUE TO EITHER NUT OR PIN HEAD.<br><br>INSTALL COTTER PINS (40).   |     | 2   |
| 40       | BACP18BC03B06P | . COTTER PIN  |     | 2   |
| 40       | BACP18BC03B07P | . COTTER PIN (OPTIONAL TO BACP18BC03B06P)   | OPT | -   |
| 40       | BACP18BC03B08P | . COTTER PIN (OPTIONAL TO BACP18BC03B06P)   | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 3-1**

Page 5

Jun 15/2016

D633A106-AKS



**1** APPLY ANTI-SEIZE COMPOUND AS INDICATED.

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**Aft Engine Mount Installation**  
**Figure 3-1 (Sheet 3)**

**71-00-02**  
**P/P BUILDUP FIGURE 3-1**

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

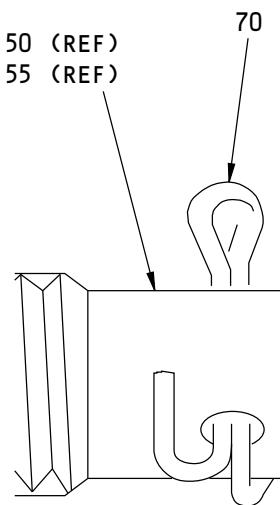
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 3-1      |             | <b>AFT ENGINE MOUNT INSTALLATION<br/>(FIGURE 3-1, SHEET 3)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO THREADS, SHANK AND UNDERNEATH HEAD OF PINS (50) AND (55).<br><br><b>NOTE:</b> DO NOT APPLY LUBRICANT IN HEAVY AMOUNTS.  |     |     |
| 50       | 310A2037-15 | . LINK PIN USED WITH COTTER PIN   |     | 1   |
| 55       | 310A2037-16 | . LINK PIN USED WITH COTTER PIN   |     | 1   |
| C1       | D00006      | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>INSTALL PROTECTIVE PAD BETWEEN AFT ENGINE MOUNT ASSY (5) AND DEFLECTOR PANEL.<br><br><b>NOTE:</b> PROTECTIVE PAD WILL BE REMOVED AFTER THRUST LINKS ARE INSTALLED.<br><br>INSTALL PIN (50) IN LEFT INBOARD LOCATION OF ENGINE MOUNT (5) AND PIN (55) IN RIGHT INBOARD LOCATION. ATTACH WITH END CAPS (60) AND NUTS (65).<br><br><b>NOTE:</b> MAKE SURE FLAT SIDE OF END CAP IS AGAINST PIN SHOULDER. MAKE SURE NO PRELOAD IS PRESENT WHEN LINK PINS ARE INSTALLED.<br><br><b>NOTE:</b> PIN (55) DIAMETER IS UNDERSIZED TO SPHERICAL BEARING BORE OF MOUNT BY DESIGN. PIN SERVES AS A FAIL-SAFE BOLT. | CON | AR  |
| 60       | 310A2039-2  | . END CAP   |     | 2   |
| 65       | BACN11Z8C   | . NUT<br><br>TIGHTEN NUTS (65) TO 440-650 POUND-INCHES (50-73 NEWTON METERS). APPLY TORQUE TO EITHER NUT OR PIN HEAD.   |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 3-1**

Page 7

Jun 15/2016

D633A106-AKS



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Aft Engine Mount Installation  
Figure 3-1 (Sheet 4)

**71-00-02**

P/P BUILDUP FIGURE 3-1

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

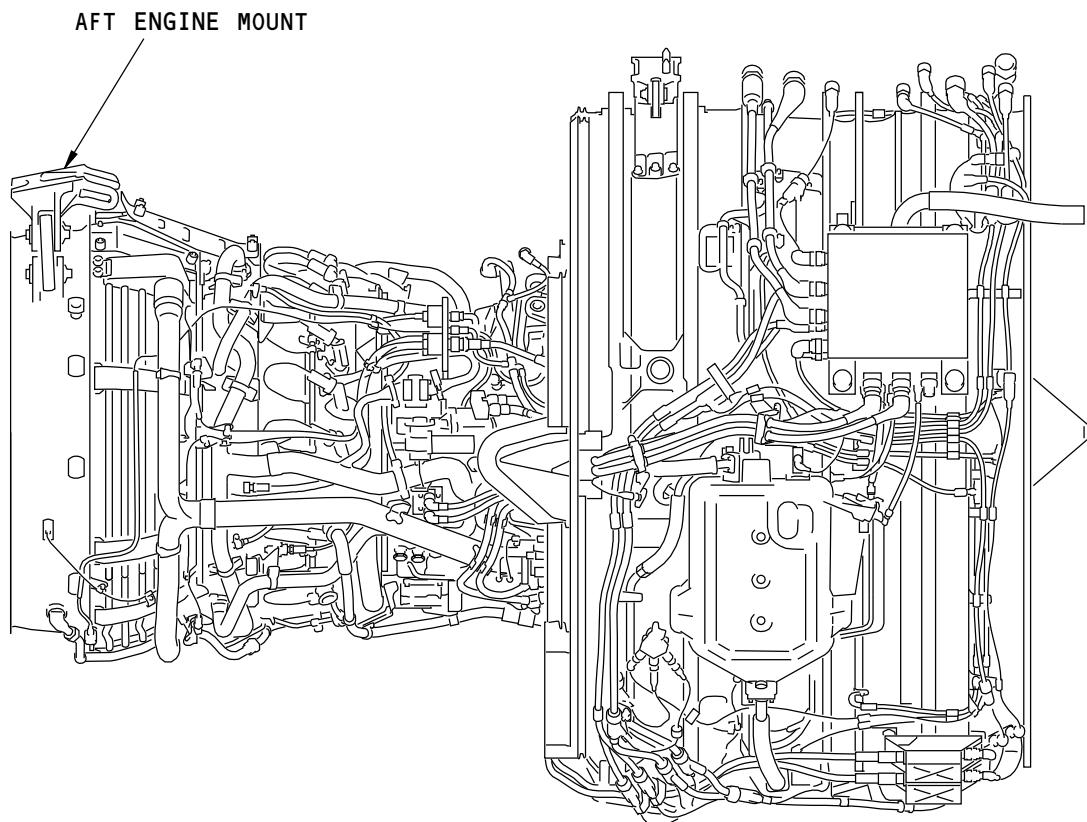
| ITEM NO. | PART NUMBER    | NOMENCLATURE   | UC  | QTY |
|----------|----------------|--|-----|-----|
| 3-1      |                | <b>AFT ENGINE MOUNT INSTALLATION<br/>(FIGURE 3-1, SHEET 4)</b> |     |     |
| 70       | BACP18BC03B06P | INSTALL COTTER PINS (70).<br>. COTTER PIN                      |     | 2   |
| 70       | BACP18BC03B07P | . COTTER PIN (OPTIONAL TO BACP18BC03B06P)                      | OPT | -   |
| 70       | BACP18BC03B08P | . COTTER PIN (OPTIONAL TO BACP18BC03B06P)                      | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 3-1**

Page 9

Jun 15/2016

D633A106-AKS



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**Aft Engine Mount Installation  
Figure 3-1 (Sheet 5)**

**71-00-02**  
**P/P BUILDUP FIGURE 3-1**  
Page 10  
Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER     | NOMENCLATURE  | UC  | QTY |
|----------|-----------------|---|-----|-----|
| 3-1      |                 | <b>AFT ENGINE MOUNT INSTALLATION<br/>(FIGURE 3-1, SHEET 5)</b>  |     |     |
| T1       | C71024-1        | <p>REMOVE fixture, SPL-2107 (T1) FROM AFT ENGINE MOUNT.</p> <p>. FIXTURE, SPL-2107</p> <p>PUT ITEMS (100) THRU (110) IN A BAG AND SECURE TO AFT MOUNT ASSY.</p> <p><b>NOTE:</b> ITEMS (100) THRU (110) ARE INSTALLED DURING POWERPLANT INSTALLATION ON AIRPLANE STRUT (AMM PAGEBLOCK 71-00-02/401).</p> | TOL | -   |
| 100      | BACB30PN14-32M  | . BOLT* <sup>[6]</sup>  |     | 4   |
| 105      | BACW10BP14ACU   | . WASHER* <sup>[6]</sup>  |     | 4   |
| 110      | SL4147CA14EBSP1 | . BARREL NUT ASSY (V97393)* <sup>[6]</sup>  | VEN | 4   |
|          |                 | *[6] ITEM NOT ILLUSTRATED   |     |     |

**71-00-02****P/P BUILDUP FIGURE 3-1**

Page 11

Jun 15/2016

D633A106-AKS

**FIGURE 4-1**

**BRACKET INSTALLATION - UPPER LEFT FAN  
CASE**

**REF QEC TASK NO.: 4**

**REF DWG: 332A2900**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

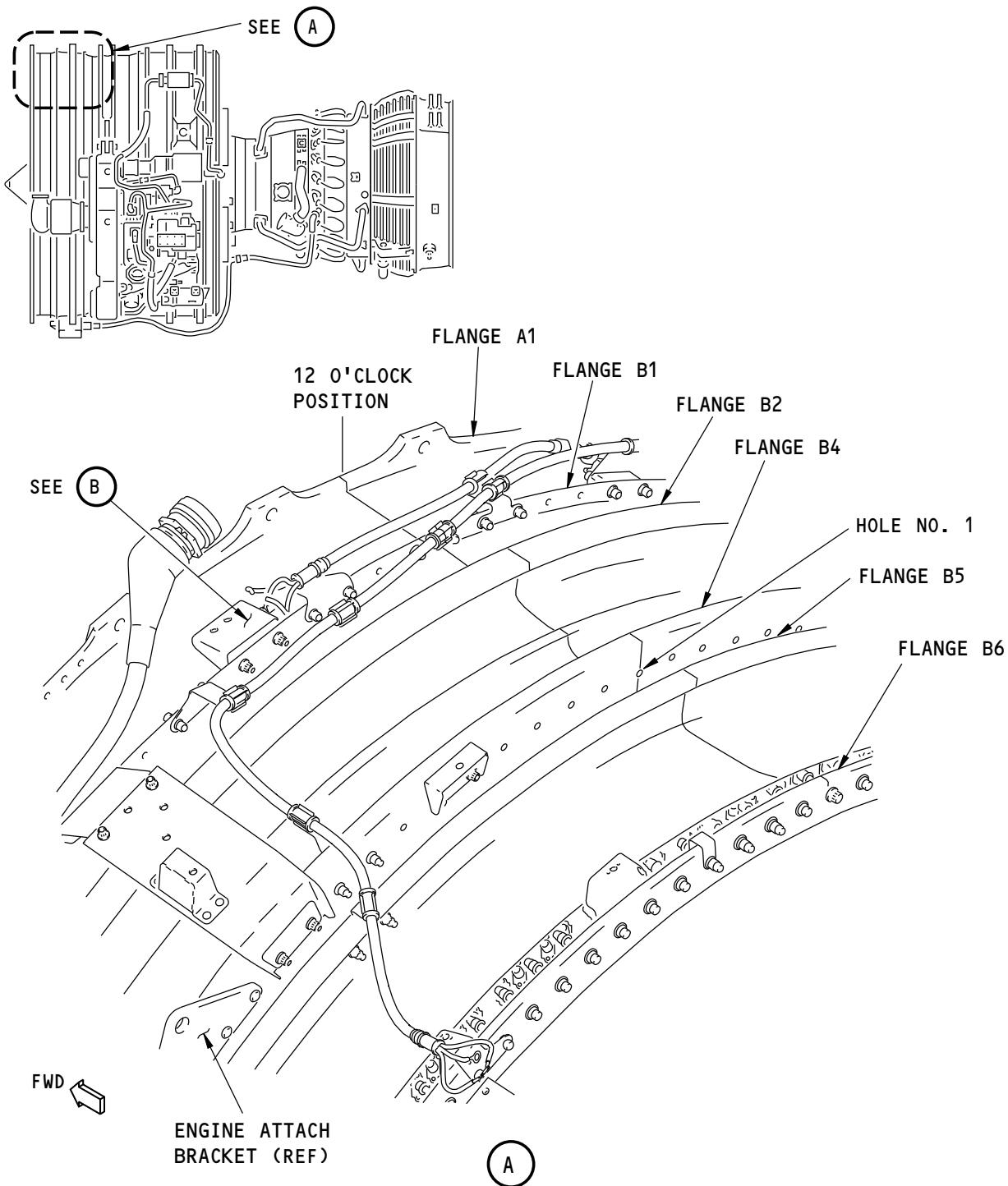
**P/P BUILDUP FIGURE 4-1**

**Page 1**

**Jun 15/2016**

**D633A106-AKS**

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Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 4-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

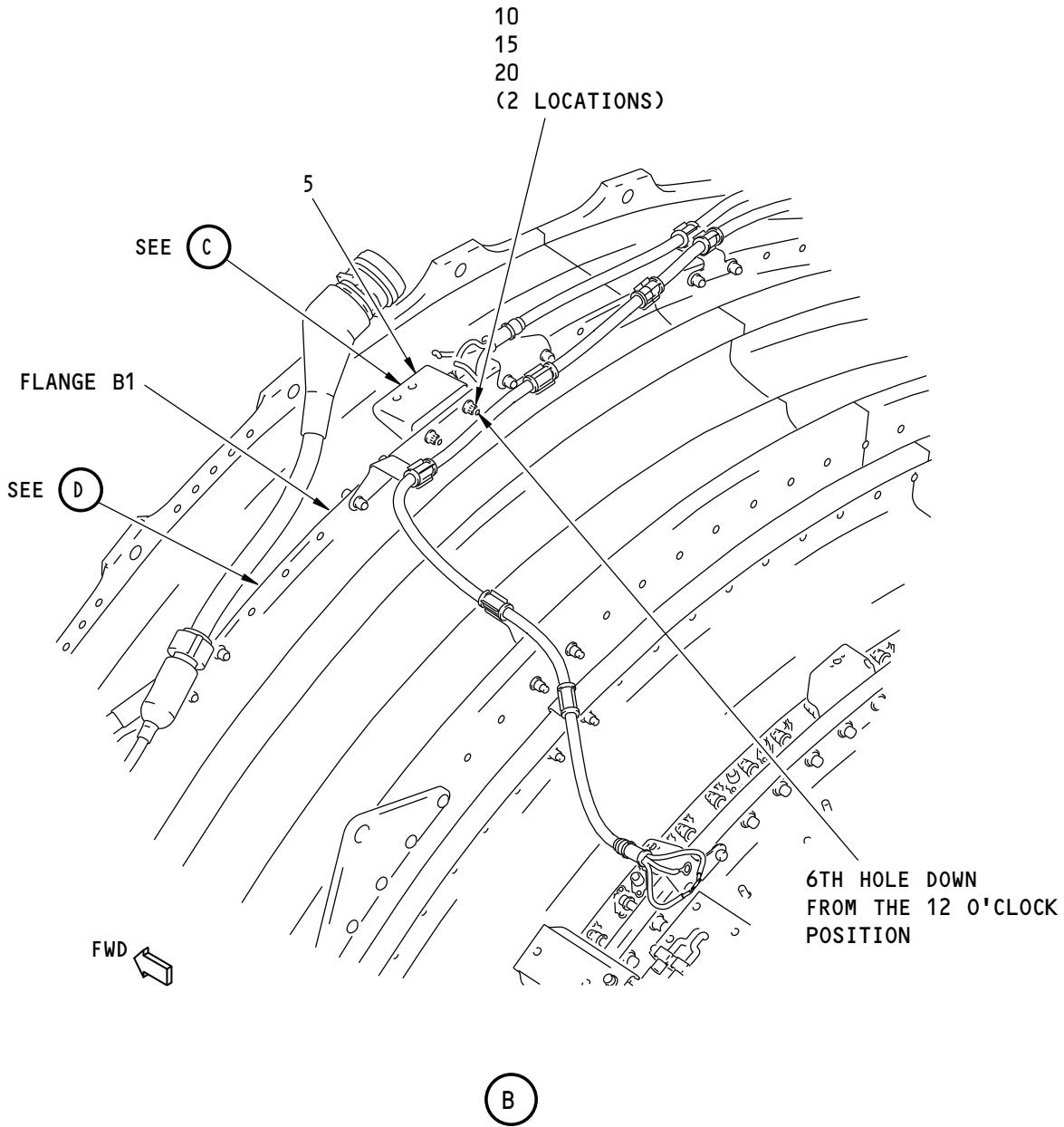
| ITEM NO.  | PART NUMBER | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|-----------|-------------|---|----------------------------------|-------------|-----|-----|
|           |             |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1<br>C1 | G51223      | <p><b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 1)</b></p> <p>COUNT 12 HOLES UP FROM ENGINE ATTACH BRACKET ON FLANGE B4. USE A marker, G51223 (C1) TO MARK THE LOCATION OF THIS HOLE ON ALL FAN FLANGES. THIS IS HOLE NO. 1 AND INDICATES THE 12 O'CLOCK POSITION.</p> <p><b>NOTE:</b> IN THIS FIGURE, HOLES ARE COUNTED FROM THE NO. 1 HOLE COUNTERCLOCKWISE (AFT LOOKING FWD) UNLESS OTHERWISE STATED.</p> <p>. MARKER</p> |                                  |             | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 3

Jun 15/2016

D633A106-AKS



F38971 S00041153652\_V1

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 2)71-00-02  
P/P BUILDUP FIGURE 4-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

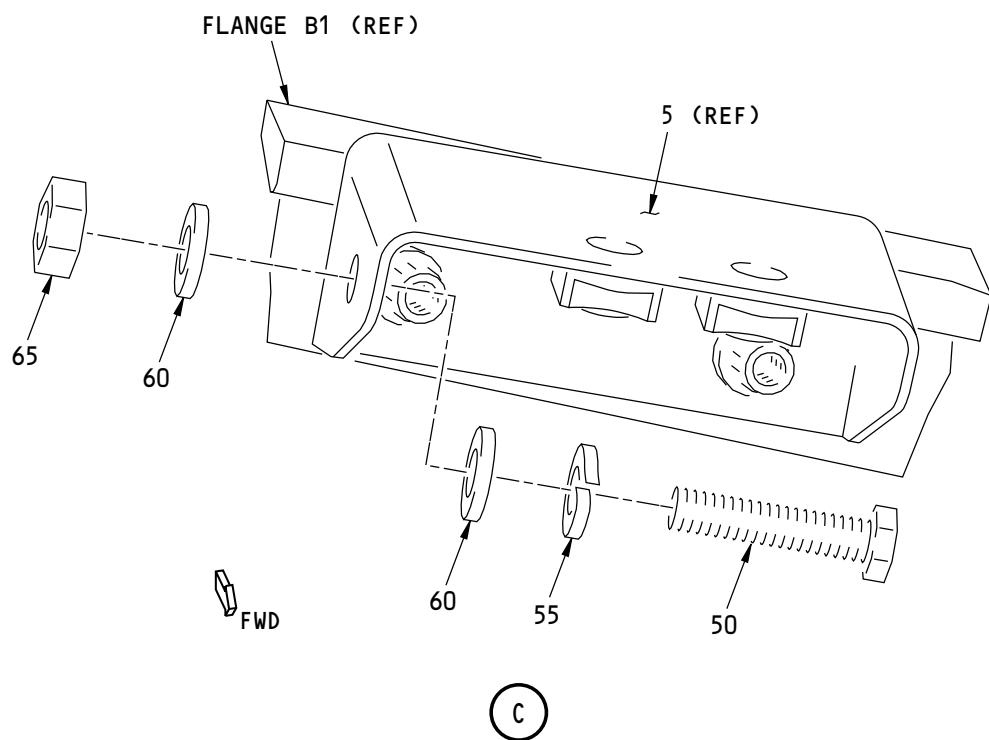
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |              | BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE<br>(FIGURE 4-1, SHEET 2)<br>CLEAN MATING SURFACES OF BRACKET ASSY (5) AND FLANGE B1 WITH alcohol, B00130 (C2). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS.   |                                  |             |     |     |
| 5        | 332A2920-229 | . BRACKET ASSY   | FWD                              | FWD         |     | 1   |
| C2       | B00130       | . ALCOHOL<br><br><u>NOTE:</u> DUE TO LIMITED ACCESS, IT IS RECOMMENDED ITEMS 50 THRU 65 BE INSTALLED PRIOR TO BRACKET (5) ATTACHMENT.<br><br>ATTACH BRACKET ASSY (5) TO 6TH AND 7TH HOLE DOWN FROM 12 O'CLOCK ON FLANGE B1. USE BOLTS (10), WASHERS (15) AND NUT (20). |                                  |             | CON | AR  |
| 10       | BACB30ZF4-12 | . BOLT (FWD SIDE)  |                                  |             |     | 2   |
| 15       | BACW10P393CB | . WASHER (UNDER NUT)   |                                  |             |     | 2   |
| 20       | AS3485-10    | . NUT<br><br>TIGHTEN BOLTS (10) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 5

Jun 15/2016

D633A106-AKS



F39519 S00041153653\_V2

**Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 3)****71-00-02**  
**P/P BUILDUP FIGURE 4-1**

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

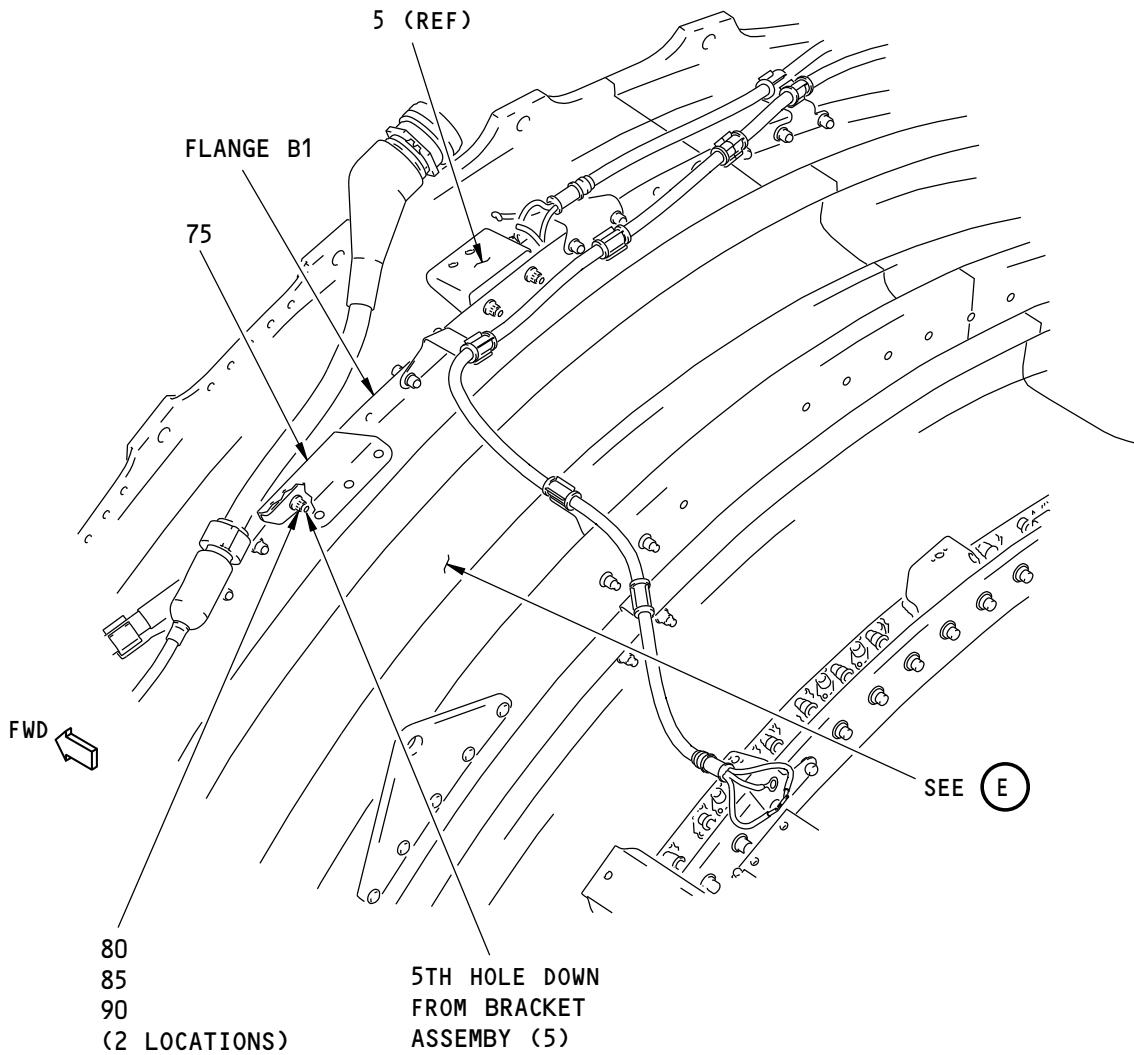
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |              | BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE<br>(FIGURE 4-1, SHEET 3)<br><br>CLEAN SURFACES OF TOP BOLT HOLE ON BRACKET ASSY (5) WITH alcohol, B00130 (C2). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS. |                                  |             |     |     |
| C2       | B00130       | . ALCOHOL<br><br>ON TOP HOLE OF BRACKET ASSY (5), ATTACH GROUNDING BOLT (50), LOCK WASHER (55), WASHERS (60) AND ELECTRICAL NUT (65).  |                                  |             | CON | AR  |
| 50       | BACS12HN4U12 | . SCREW  |                                  |             |     | 1   |
| 55       | BACW10EC4M   | . LOCK WASHER  |                                  |             |     | 1   |
| 60       | BACW10BP4APU | . WASHER   |                                  |             |     | 2   |
| 65       | MS35650-3254 | . ELECTRICAL NUT<br><br>TIGHTEN BOLT (50) TO 90-105 POUND-INCHES (10.2-11.9 NEWTON METERS).  |                                  |             |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 7

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 4)71-00-02  
P/P BUILDUP FIGURE 4-1

Page 8

Jun 15/2016

D633A106-AKS

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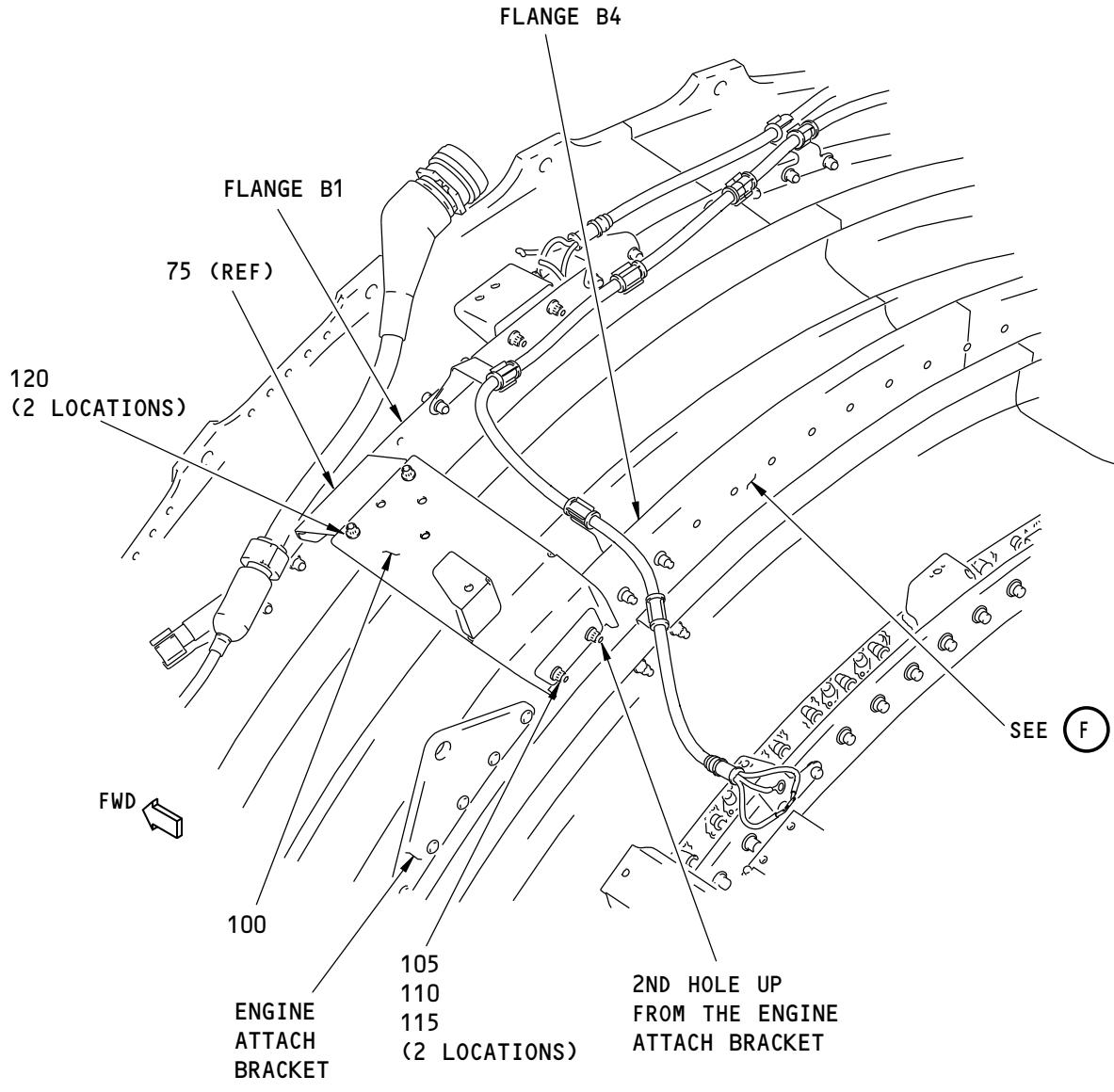
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 4)</b><br>ATTACH BRACKET (75) TO 4TH AND 5TH HOLES DOWN FROM BRACKET ASSY (5) ON FLANGE B1. USE BOLTS (80), WASHERS (85) AND NUTS (90). |                                  |             |    |     |
| 75       | 332A2910-143 | . BRACKET   | AFT                              | AFT         | 1  |     |
| 80       | BACB30ZF4-12 | . BOLT (FWD SIDE)   |                                  |             |    | 2   |
| 85       | BACW10P393CB | . WASHER (UNDER BOLT)   |                                  |             |    | 2   |
| 90       | AS3485-10    | . NUT   |                                  |             |    | 2   |
|          |              | TIGHTEN BOLTS (80) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 9

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
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Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 5)71-00-02  
P/P BUILDUP FIGURE 4-1

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

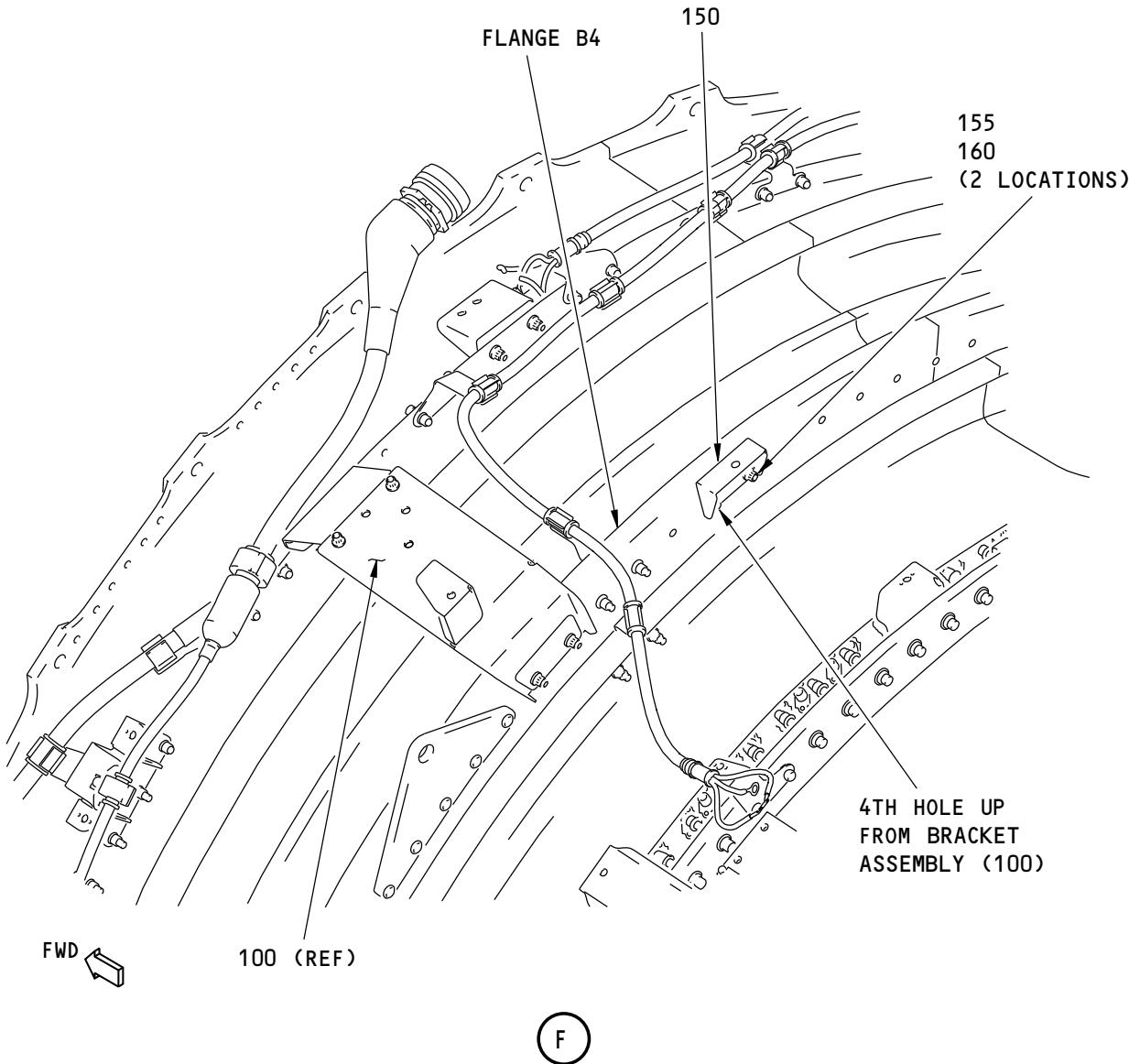
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |              | <p><b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 5)</b></p> <p>ATTACH BRACKET ASSY (100) TO 1ST AND 2ND HOLES UP FROM ENGINE ATTACH BRACKET ON FLANGE B4 ALIGNING HOLES ON FWD END WITH BRACKET (75). USE BOLTS (105), WASHERS (110) AND NUTS (115) ON FLANGE B4 AND BOLTS (120) ON BRACKET (75).</p> <p><b>NOTE:</b> DO NOT INSTALL BOLT IN CENTER HOLE OF BRACKET ASSY (100). HOLE WILL BE USED TO ATTACH HYDRAULIC FILTER (REF HYDRAULIC PLUMBING INSTALLATION/Figure 21-1).</p> |                                  |             |    |     |
| 100      | 332A2920-232 | . BRKT ASSY   | AFT                              | FWD         | 1  |     |
| 105      | BACB30ZF4-12 | . BOLT (FWD SIDE)   |                                  |             |    | 2   |
| 110      | BACW10P393CB | . WASHER (UNDER BOLT)   |                                  |             |    | 2   |
| 115      | AS3485-10    | . NUT   |                                  |             |    | 2   |
| 120      | BACB30ZF4-06 | . BOLT  |                                  |             |    | 2   |
|          |              | TIGHTEN BOLTS (105) AND (120) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 11

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 6)**

**71-00-02**  
**P/P BUILDUP FIGURE 4-1**  
Page 12  
Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|--|----------------------------------|-------------|----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 6)</b><br>ATTACH BRACKET ASSY (150) TO 4TH AND 5TH HOLES UP FROM BRACKET ASSY (100) ON FLANGE B4. USE BOLTS (155) AND WASHERS (160). |                                  |             |    |     |
| 150      | 332A2920-142 | . BRACKET ASSY   | AFT                              | AFT         |    | 1   |
| 155      | BACB30ZF4-12 | . BOLT (FWD SIDE)  |                                  |             |    | 2   |
| 160      | BACW10P393CB | . WASHER (UNDER BOLT)  |                                  |             |    | 2   |
|          |              | TIGHTEN BOLTS (155) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 13

Jun 15/2016

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Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 7)

**71-00-02**

P/P BUILDUP FIGURE 4-1

Page 14

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 4-1      |             | BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE<br>(FIGURE 4-1, SHEET 7)<br>THIS SHEET NOT USED |    |     |

71-00-02

P/P BUILDUP FIGURE 4-1

Page 15

Jun 15/2016

D633A106-AKS

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Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 8)

**71-00-02**

P/P BUILDUP FIGURE 4-1

Page 16

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 4-1      |             | BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE<br>(FIGURE 4-1, SHEET 8)<br>THIS SHEET NOT USED |    |     |

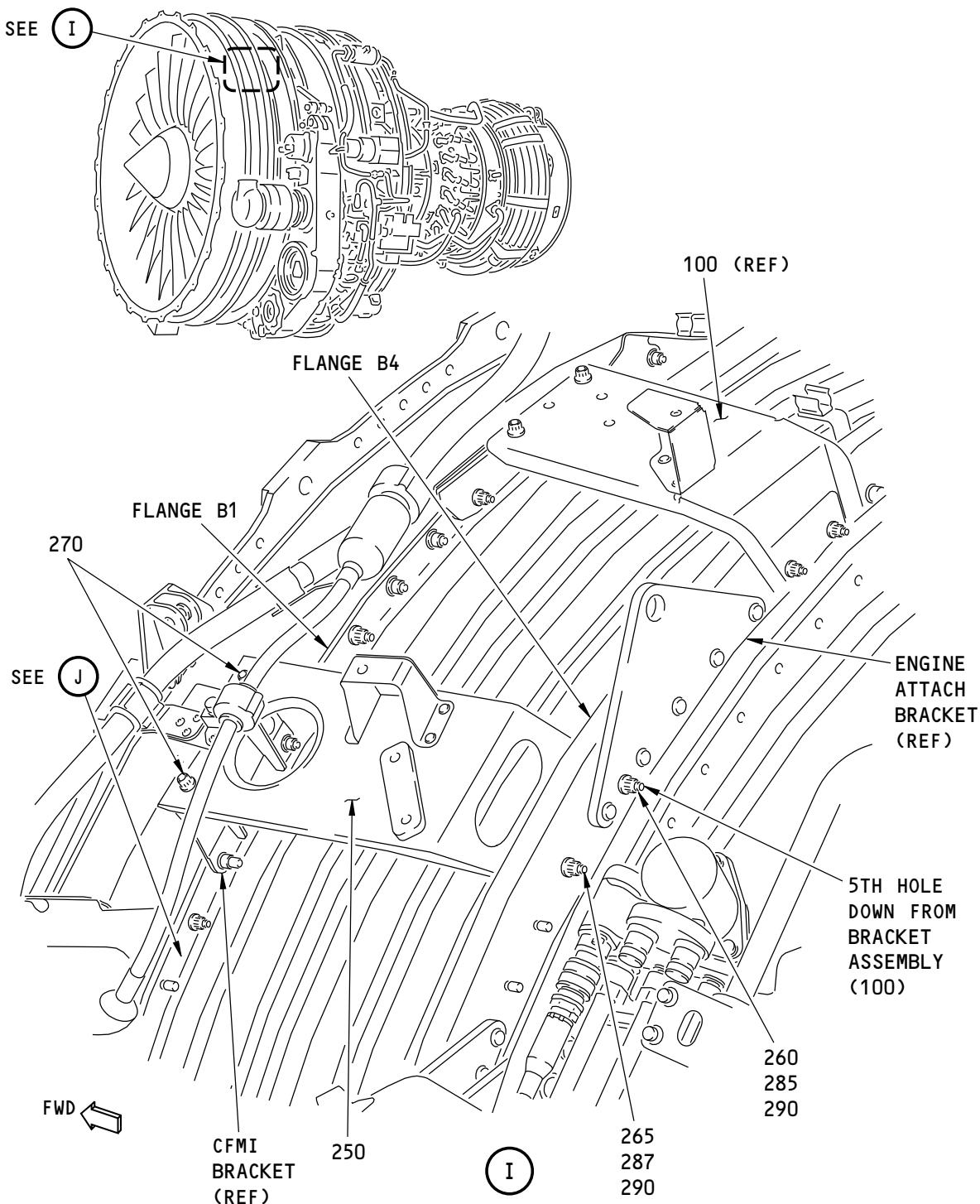
**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 17

Jun 15/2016

D633A106-AKS

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Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 4-1

Page 18

Jun 15/2016

D633A106-AKS

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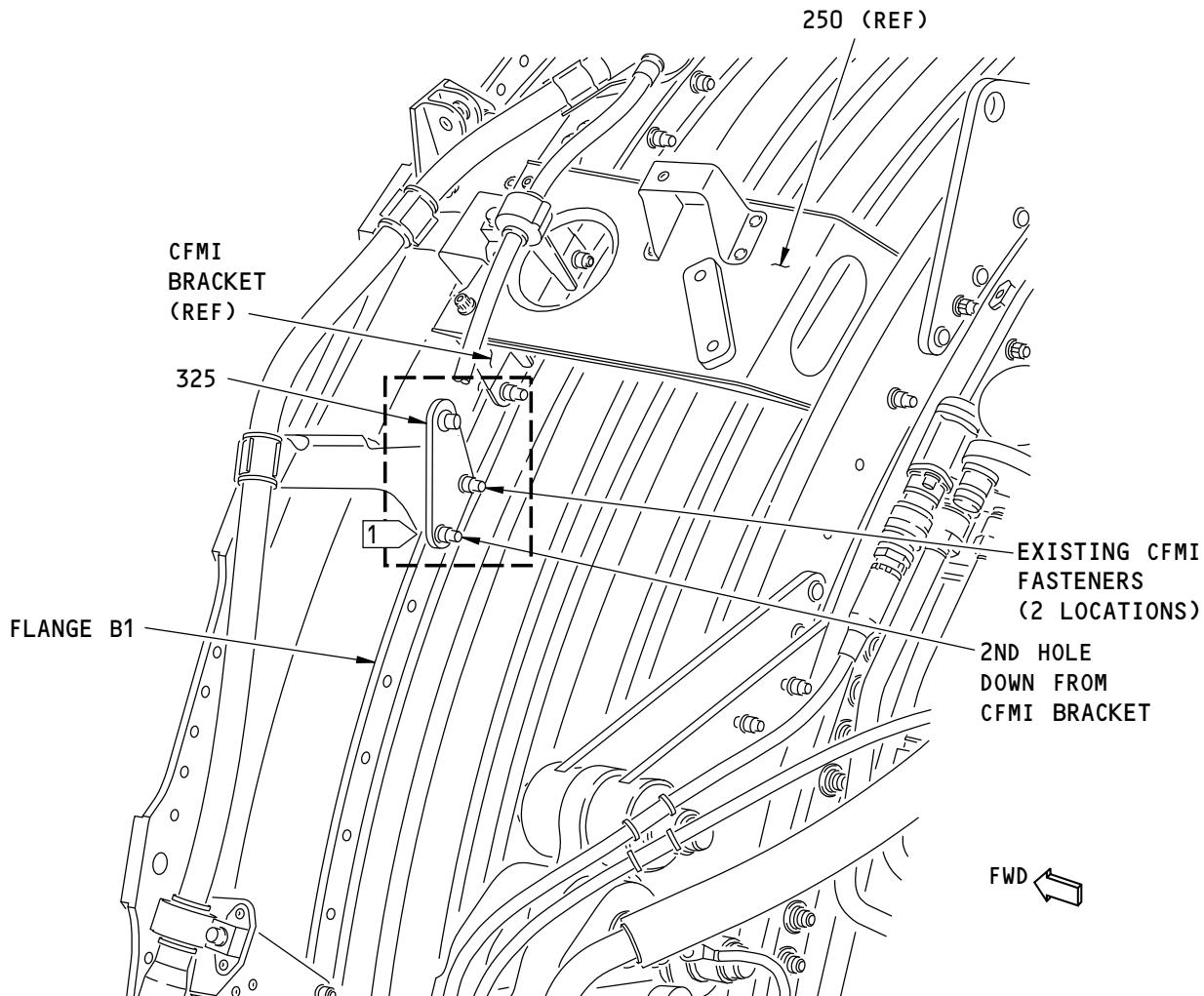
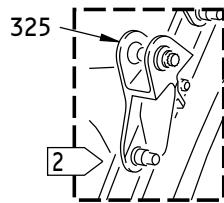
| ITEM NO. | PART NUMBER    | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|----------------|--|----------------------------------|-------------|-----|-----|
|          |                |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |                | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 9)</b><br>ATTACH BRACKET ASSY (250) OR (255) TO 5TH AND 7TH HOLES DOWN FROM BRACKET ASSY (100) ON FLANGE B4, ALIGNING FWD HOLES WITH CFMI BRACKET ON FLANGE B1. USE BOLTS (260) AND (265), WASHERS (285, 287) AND NUTS (290) ON FLANGE B4 AND BOLTS (270) ON CFMI BRACKET ON FLANGE B1.<br>IF BRACKET ASSY (255) IS USED, INSTALL SPACER (275) ON UPR HOLE AND SPACER (280) ON LWR HOLE. |                                  |             |     |     |
| 250      | 332A2920-157   | . BRACKET ASSY   | FWD                              | FWD         |     | 1   |
| 250      | 332A2920-131   | . BRACKET ASSY (OPTIONAL)  | FWD                              | FWD         | OPT | -   |
| 255      | 332A2920-117   | . BRACKET ASSY (OPTIONAL)* <sup>[3]*[4]</sup>  | FWD                              | FWD         | OPT | -   |
| 260      | BACB30ZF4-29   | . BOLT (FWD SIDE) (UPPER HOLE)   |                                  |             |     | 1   |
| 265      | BACB30ZF4-26   | . BOLT (FWD SIDE) (LOWER HOLE)   |                                  |             |     | 1   |
| 270      | BACB30ZF4-08   | . BOLT   |                                  |             |     | 2   |
| 275      | NAS1057W4A-064 | . SPACER (UPR HOLE) (1 REQD)* <sup>[3]*[4]</sup>   |                                  |             | OPT | -   |
| 280      | NAS1057W4A-080 | . SPACER (LWR HOLE) (1 REQD)* <sup>[3]*[4]</sup>   |                                  |             | OPT | -   |
| 285      | NAS1149C0432R  | . WASHER (UNDER NUT)   |                                  |             |     | 1   |
| 287      | BACW10P393CB   | . WASHER (UNDER NUT)   |                                  |             |     | 1   |
| 290      | AS3485-10      | . NUT  |                                  |             |     | 2   |
|          |                | TIGHTEN BOLTS (260), (265) AND (270) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |                                  |             |     |     |
|          |                | *[3] BRACKET ASSY (255) WITH SPACERS (275) AND (280) IS OPTIONAL TO BRACKET ASSY (250)   |                                  |             |     |     |
|          |                | *[4] ITEM NOT ILLUSTRATED  |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 19

Jun 15/2016

D633A106-AKS



- PREFERRED BRACKET ASSEMBLY  
 OPTIONAL BRACKET ASSEMBLY

J

F40351 S00041153663\_V1

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 10)

71-00-02  
P/P BUILDUP FIGURE 4-1  
Page 20  
Jun 15/2016

D633A106-AKS

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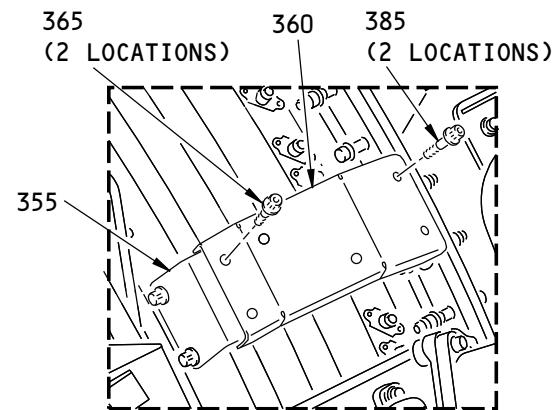
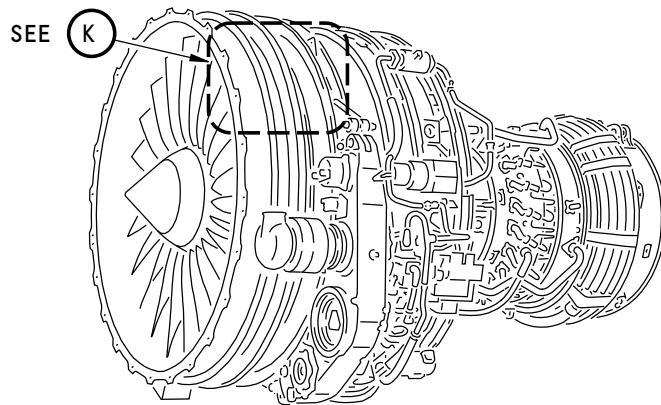
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 10)</b><br>REMOVE EXISTING CFMI FASTENERS FROM 1ST AND 2ND HOLES DOWN FROM CFMI BRACKET ON FLANGE B1.<br>ATTACH BRACKET ASSY (325) USING EXISTING CFMI FASTENERS. |                                  |             |    |     |
| 325      | 332A2920-178 | . BRACKET ASSY  | AFT                              |             |    | 1   |
| 325      | 332A2930-30  | . BRKT ASSY (OPTIONAL TO 332A2920-178)<br>TIGHTEN EXISTING CFMI FASTENERS TO 100-112 POUND-INCHES (11.3-12.7 NEWTON METERS).  | AFT                              | OPT         |    | -   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

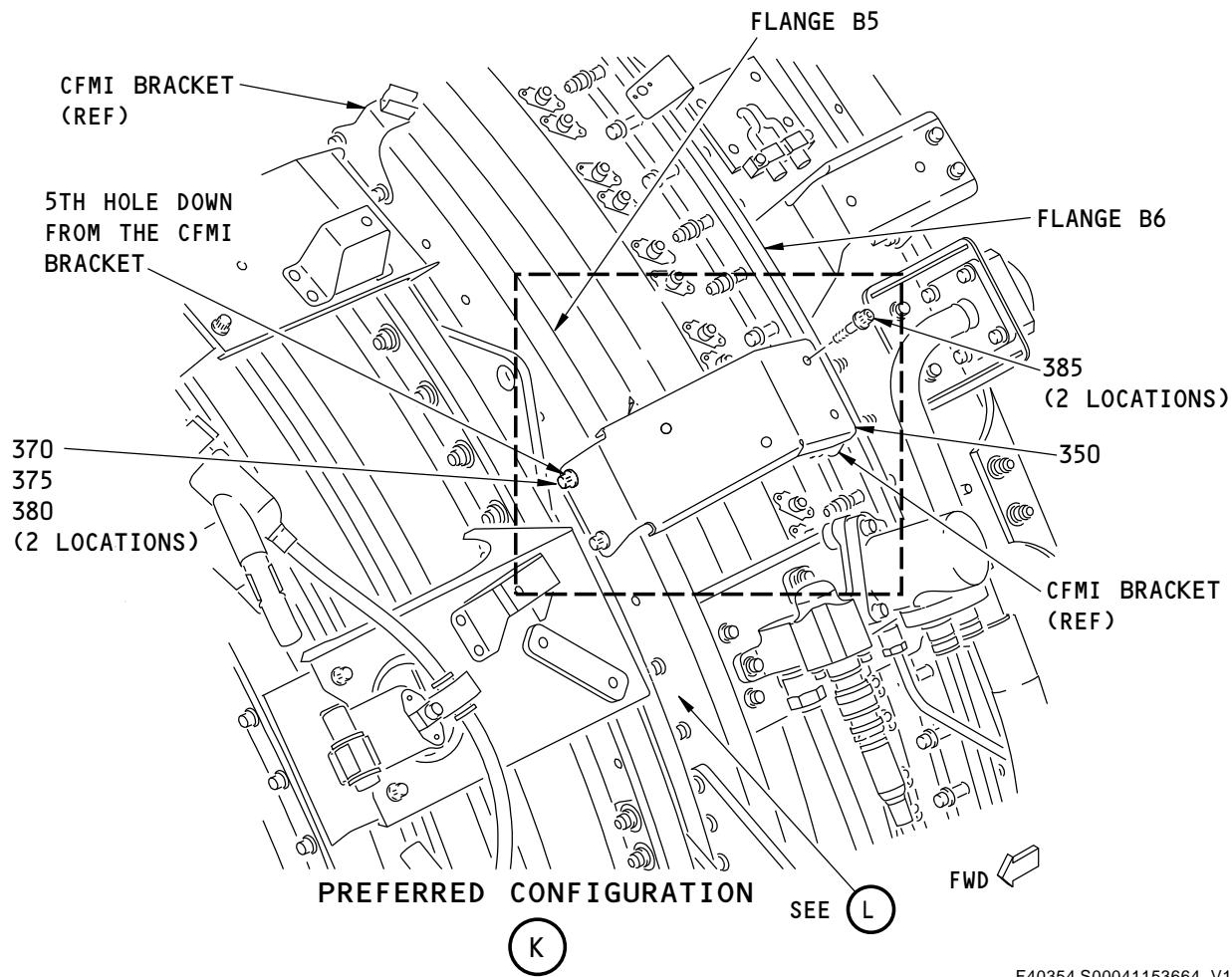
Page 21

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

OPTIONAL CONFIGURATION



F40354 S00041153664\_V1

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 4-1

Page 22

Jun 15/2016

D633A106-AKS

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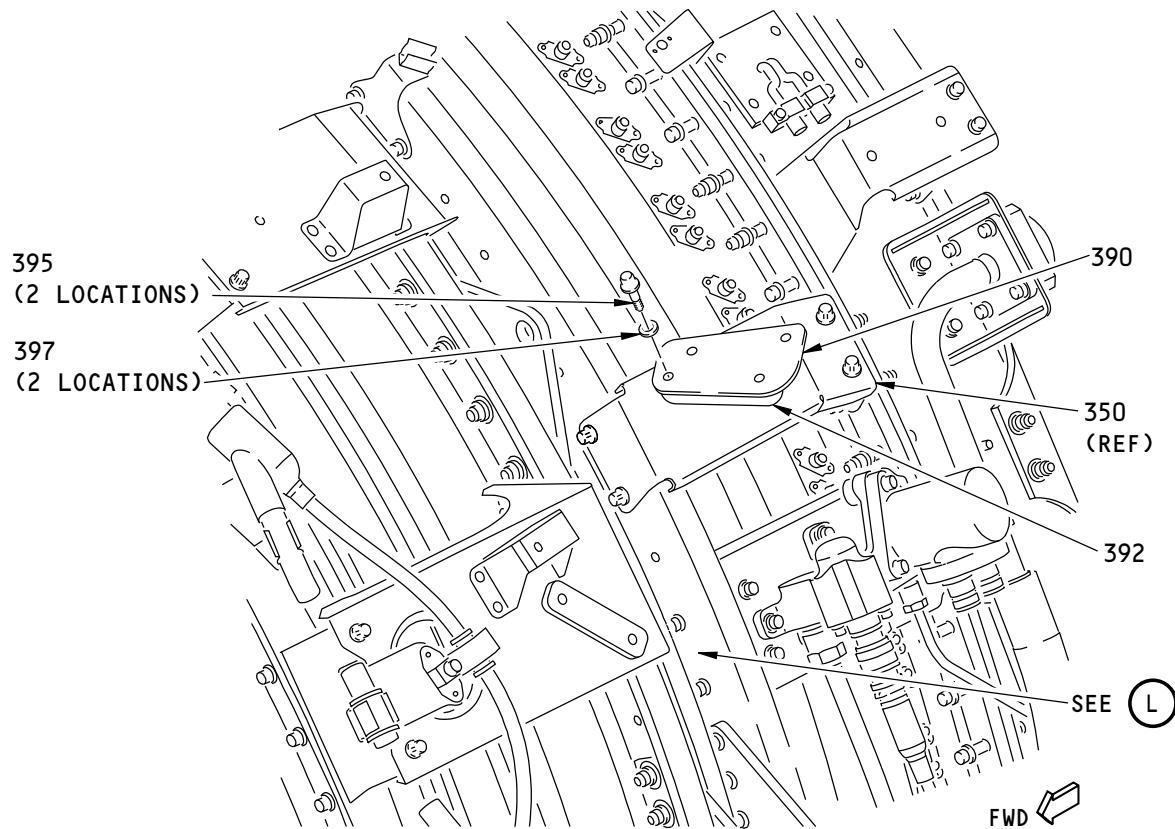
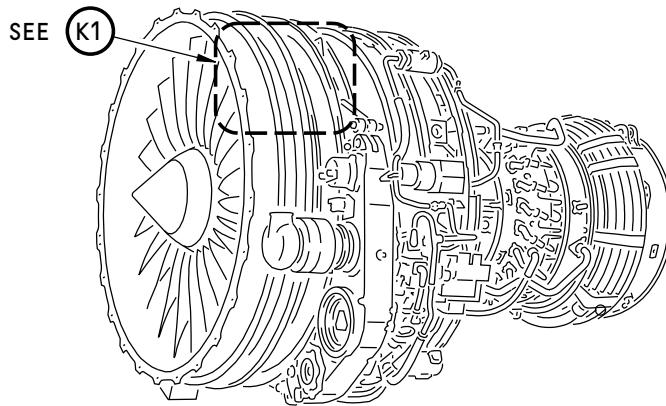
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |              | <p><b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 11)</b></p> <p><b>PREFERRED CONFIGURATION:</b></p> <p>ATTACH BRACKET ASSY (350) TO 5TH AND 6TH HOLES DOWN FROM CFMI BRACKET ON FLANGE B5 USING BOLTS (370), WASHERS (375) AND NUTS (380) AND TO CFMI BRACKET ON FLANGE B6 USING BOLTS (385).</p> <p><b>OPTIONAL CONFIGURATION:</b></p> <p>ATTACH BRACKET (355) TO BRACKET ASSY (360) USING BOLTS (365). TIGHTEN BOLTS TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).</p> <p>ATTACH BRACKET (355) TO 5TH AND 6TH HOLES DOWN FROM CFMI BRACKET ON FLANGE B5 USING BOLTS (370), WASHERS (375) AND NUTS (380).</p> <p>ATTACH BRACKET (360) TO CFMI BRACKET ON FLANGE B6 USING BOLTS (385).</p> |                                  |             |     |     |
| 350      | 332A2920-197 | . BRACKET ASSY  | FWD                              | AFT         |     | 1   |
| 355      | 332A2910-87  | . BRACKET (1 REQD)  | FWD                              | AFT         | OPT | -   |
| 360      | 332A2920-115 | . BRACKET ASSY (1 REQD)   |                                  |             | OPT | -   |
| 365      | BACB30ZF4-06 | . BOLT (2 REQD)   |                                  |             | OPT | -   |
| 370      | BACB30ZF4-14 | . BOLT (FWD SIDE)   |                                  |             |     | 2   |
| 375      | BACW10P393CB | . WASHER (UNDER NUT)  |                                  |             |     | 2   |
| 380      | AS3485-10    | . NUT   |                                  |             |     | 2   |
| 385      | BACB30ZF4-06 | . BOLT  |                                  |             |     | 2   |
|          |              | TIGHTEN BOLTS (370, 385) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 23

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

## PREFERRED CONFIGURATION

(K1)

2339289 S0000533010\_V1

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 12)**

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 24

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

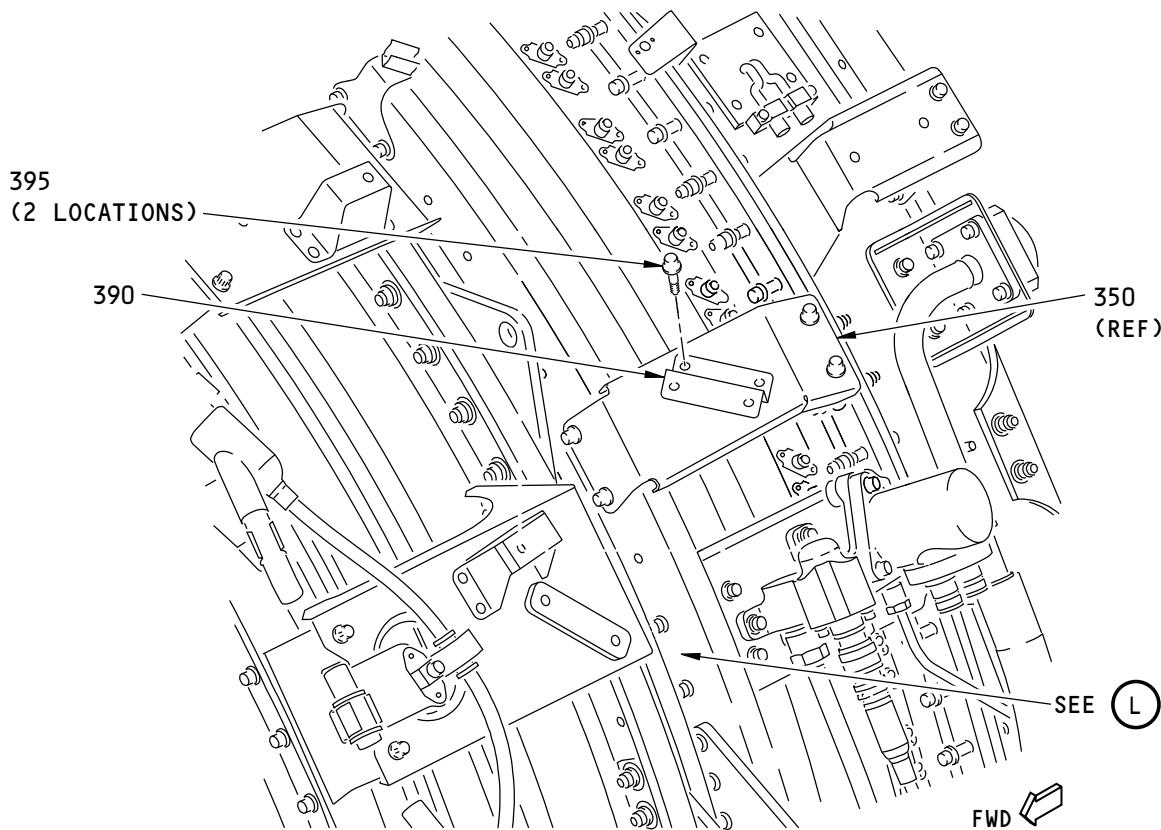
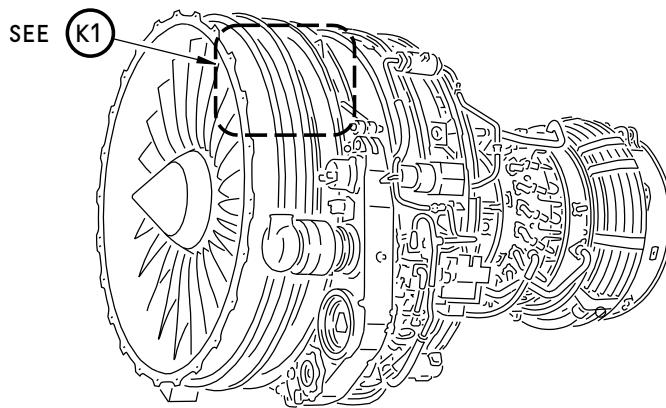
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|---------------|---|----------------------------------|-------------|-----|-----|
|          |               |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |               | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 12)</b><br><u>PREFERRED CONFIGURATION</u><br>APPLY primer, C00259 (C8) OR adhesive, A01076 (C9) TO THE SHANKS OF BOLTS (395). ATTACH BRACKET ASSY (390) AND BRACKET DETAIL (392) USING BOLTS (395) AND WASHERS (397). |                                  |             |     |     |
| 390      | 332A2910-163  | . BRACKET ASSY  | FWD                              | AFT         |     | 1   |
| 392      | 332A2930-98   | . BRACKET DETAIL  | FWD                              | AFT         |     | 1   |
| 395      | BACB30NM4K11  | . BOLT  | FWD                              | AFT         |     | 2   |
| 397      | NAS1149C0432R | . WASHER  | FWD                              | AFT         |     | 2   |
| C8       | C00259        | . PRIMER  |                                  |             | CON | AR  |
| C9       | A01076        | . ADHESIVE  |                                  |             | CON | AR  |
|          |               | TIGHTEN BOLTS (395) TO 73-78 POUND-INCHES (8.2-8.8 NEWTON METERS).  |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 25

Jun 15/2016

D633A106-AKS



ORIGINAL CONFIGURATION

(K1)

1732670 S0000313567\_V3

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 13)**

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 26

Jun 15/2016

D633A106-AKS

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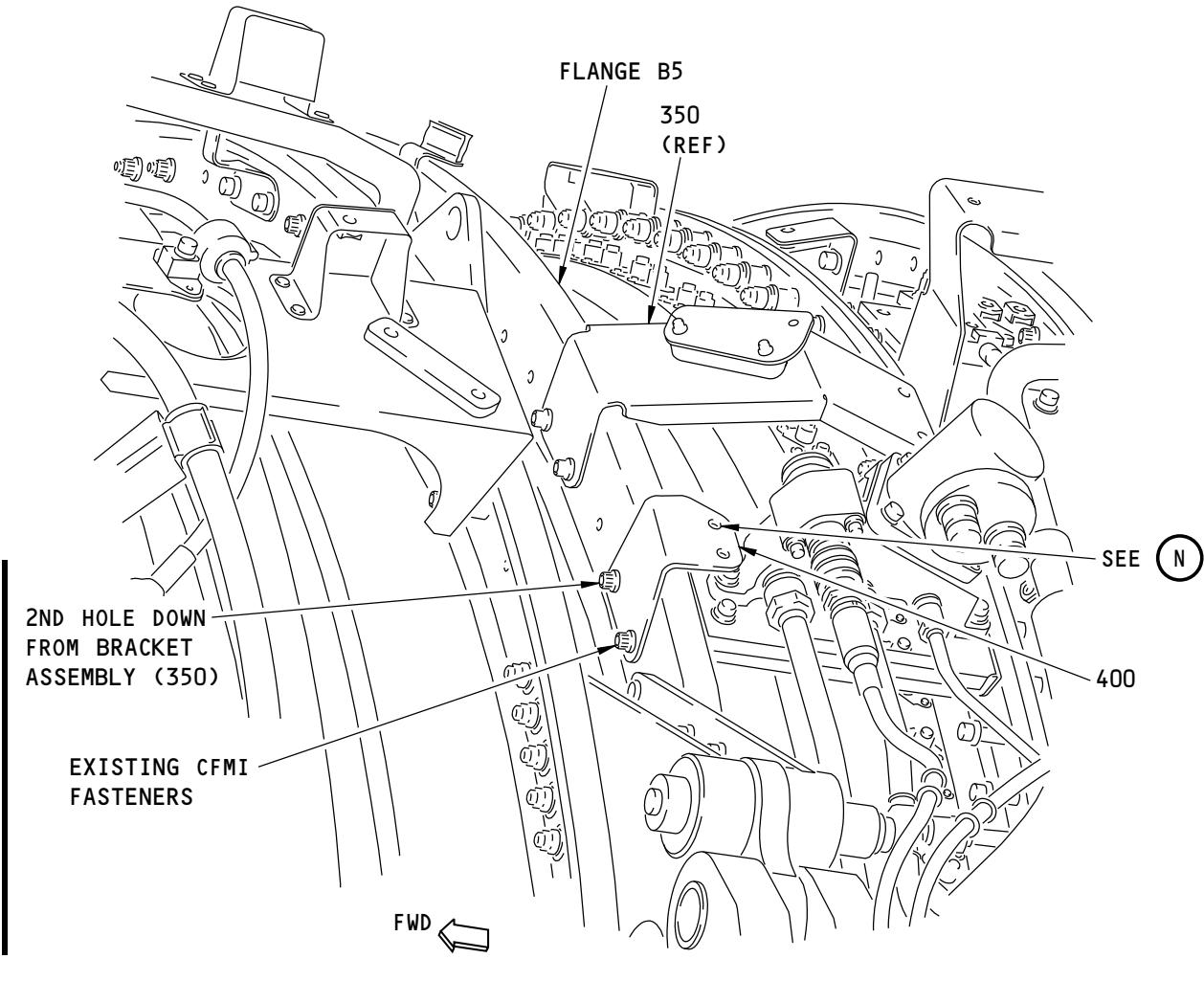
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 13)</b><br><u>ORIGINAL CONFIGURATION</u><br>ATTACH BRACKET ASSY (390) USING BOLTS (395).<br>. BRACKET ASSY <sup>*[5]</sup> * <sup>[14]</sup><br>. BOLT (QTY 2)<br>TIGHTEN BOLTS (395) TO 78-82 POUND-INCHES (8.8-9.3 NEWTON METERS).<br>* <sup>[5]</sup> ENGINES WITH IMPROVED HYDRAULIC PRESSURE HOSE SUPPORT BRACKETS (POST SB 737-29-1111).<br>* <sup>[14]</sup> BRACKET ASSY 332A2920-236 (390) REPLACED BY BRACKET ASSY 332A2910-163 (390) TOGETHER WITH BRACKET DETAIL (392). |                                  |             |     |     |
| 390      | 332A2920-236 |   | FWD                              | AFT         | LTD | -   |
| 395      | BACB30ZF4-08 |   | FWD                              | AFT         | LTD | -   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 27

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

## PREFERRED CONFIGURATION

(L)

2339292 S0000533011\_V2

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 14)**

**71-00-02**  
**P/P BUILDUP FIGURE 4-1**  
 Page 28  
 Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

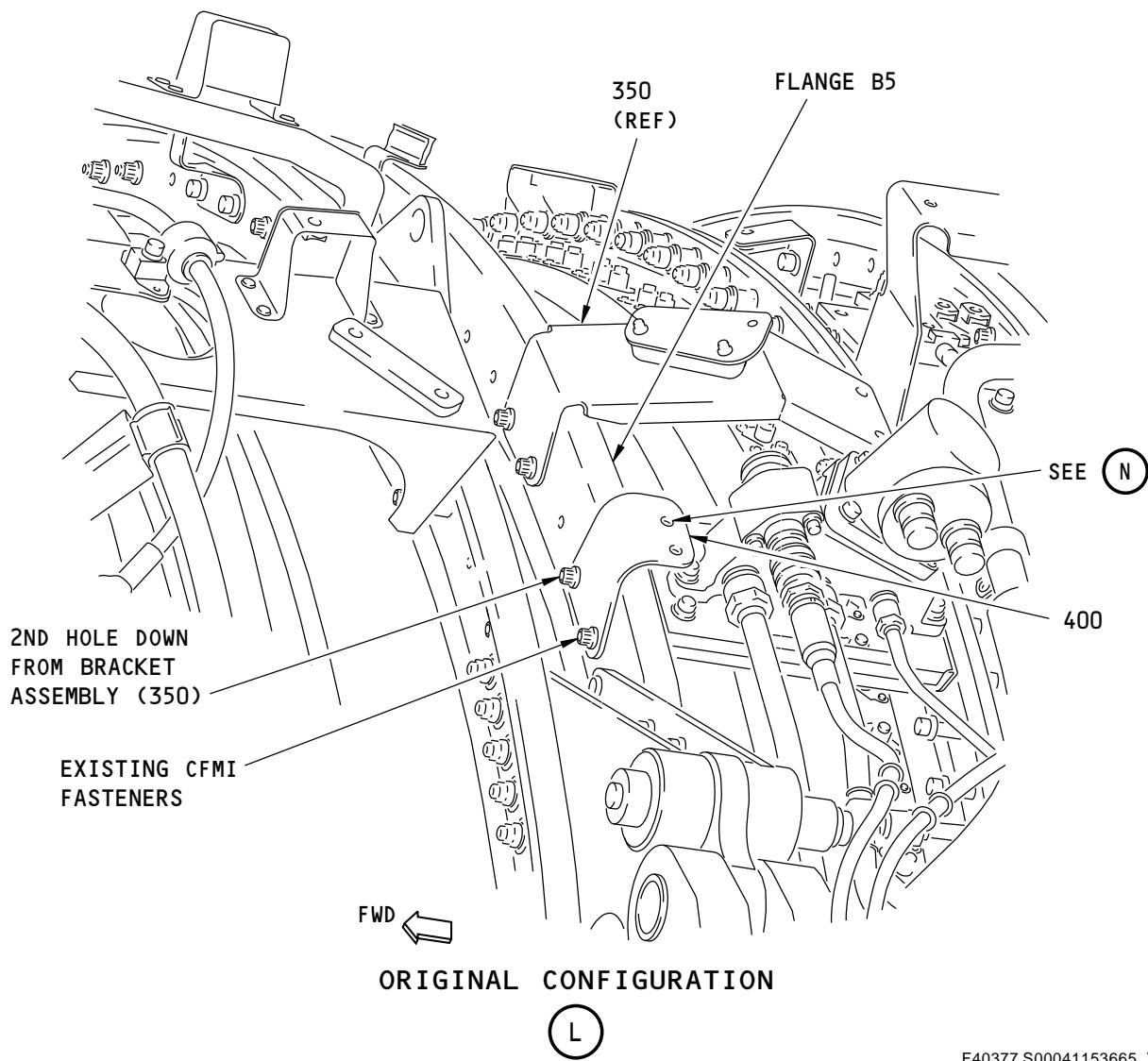
| ITEM NO.  | PART NUMBER            | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY     |
|-----------|------------------------|--|----------------------------------|-------------|-----|---------|
|           |                        |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |         |
| 4-1       |                        | <p><b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 14)</b></p> <p><b>PREFERRED CONFIGURATION</b></p> <p>ON FLANGE B5 REMOVE EXISTING CFMI FASTENERS FROM 2ND AND 3RD HOLES DOWN FROM BRACKET ASSY (350) OR BRACKET (355). DISCARD THE RED CFMI SPACERS.</p> <p>APPLY A THIN COATING OF compound, D50004 (C7) TO EXISTING CFMI FASTENERS.</p> <p>ATTACH BRACKET ASSY (400) USING EXISTING CFMI FASTENERS.</p> |                                  |             |     |         |
| 400<br>C7 | 332A2910-159<br>D50004 | <p>. BRACKET ASSY</p> <p>. COMPOUND</p> <p>TIGHTEN EXISTING CFMI FASTENERS TO 100-112 POUND-INCHES (11.3-12.7 NEWTON METERS).</p>  | FWD                              | AFT         | CON | 1<br>AR |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 29

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F40377 S00041153665\_V5

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 15)**

**71-00-02**  
**P/P BUILDUP FIGURE 4-1**

Page 30

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

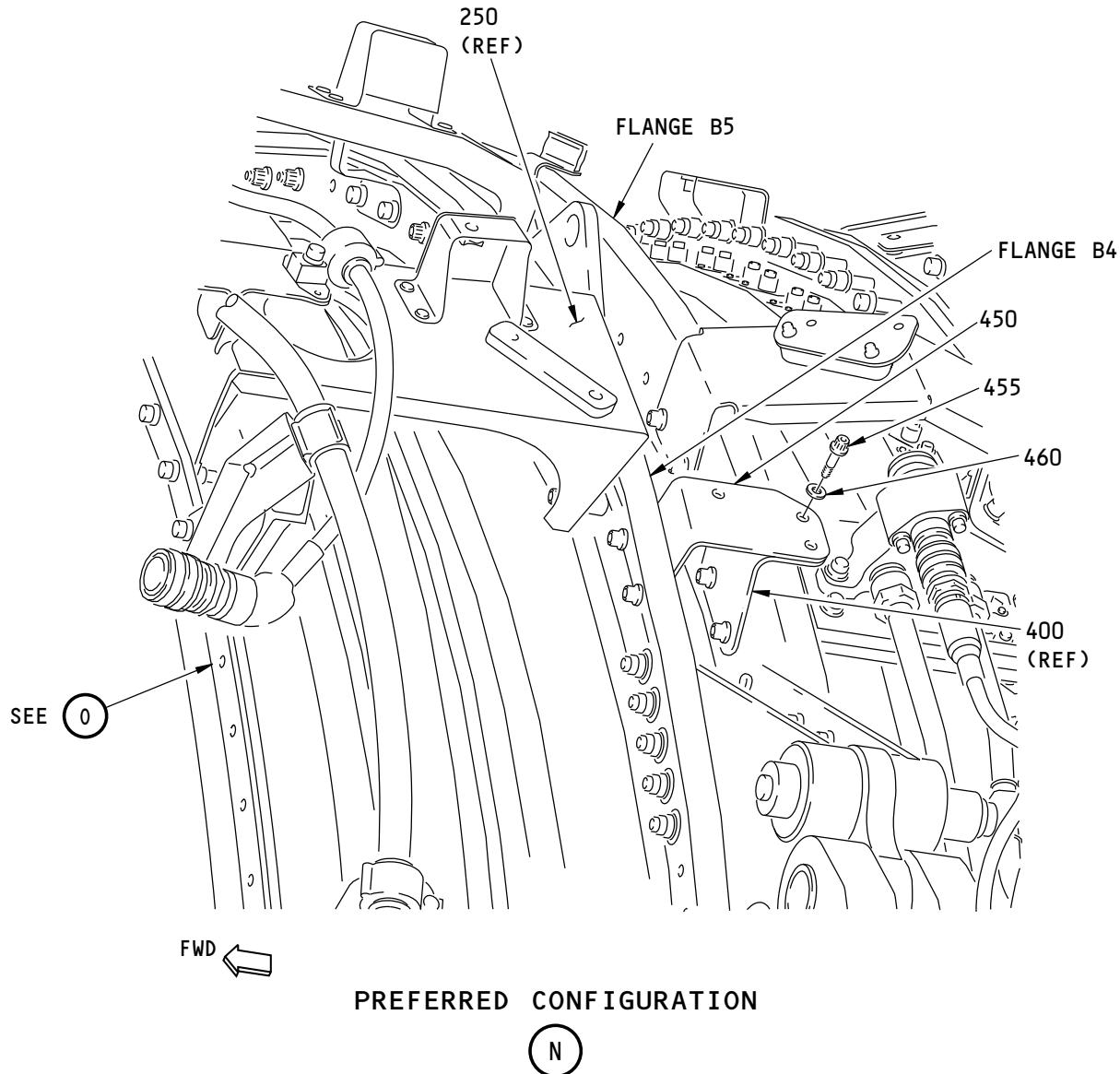
| ITEM NO.   | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|------------|--------------|---|----------------------------------|-------------|-----|-----|
|            |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1<br>400 | 332A2910-147 | <p><b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 15)</b></p> <p><b>ORIGINAL CONFIGURATION</b></p> <p>ON FLANGE B5 REMOVE EXISTING CFMI FASTENERS FROM 2ND AND 3RD HOLES DOWN FROM BRACKET ASSY (350) OR BRACKET (355). DISCARD THE RED CFMI SPACERS.</p> <p>ATTACH BRACKET ASSY (400) USING EXISTING CFMI FASTENERS.</p> <p>. BRKT (REPLACED BY 332A2910-159)</p> <p>TIGHTEN EXISTING CFMI FASTENERS TO 100-112 POUND-INCHES (11.3-12.7 NEWTON METERS).</p> | FWD                              | AFT         | LTD | -   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 31

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

2339295 S0000533012\_V1

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 16)

71-00-02

P/P BUILDUP FIGURE 4-1

Page 32

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

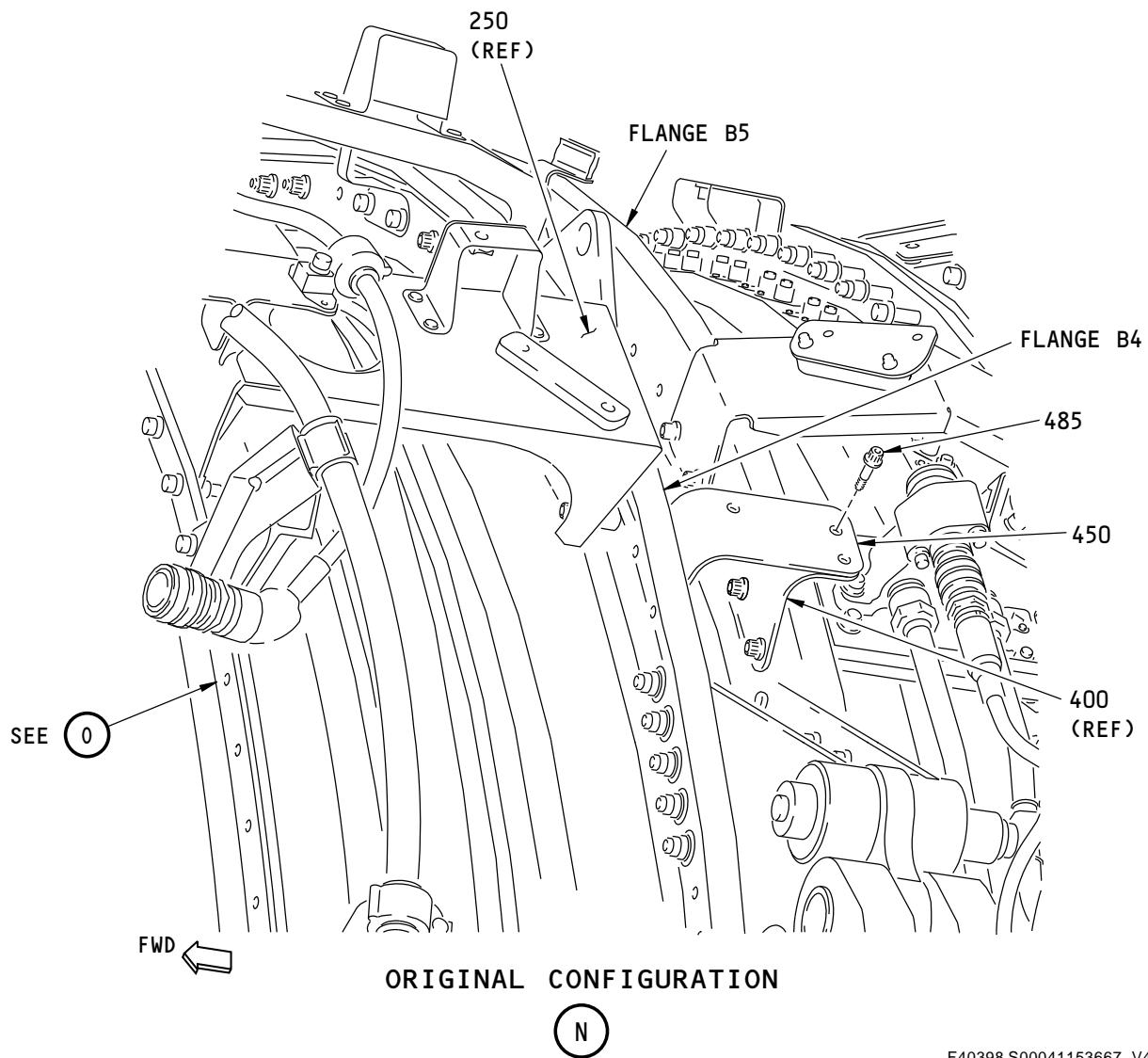
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|---------------|--|----------------------------------|-------------|----|-----|
|          |               |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |               | <p><b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 16)</b></p> <p><b>PREFERRED CONFIGURATION</b></p> <p>ATTACH BRACKET ASSY (450) TO BRACKET ASSY (400) WITH BOLT (455) AND WASHER (460) AT UPPER LOCATION ONLY. TIGHTEN BOLT TO 78-82 POUND-INCHES (8.0-9.0 NEWTON METERS)</p> <p><b>NOTE:</b> LOWER HOLE WILL BE USED TO ATTACH HYD PRESSURE HOSE (REF HYDRAULIC PLUMBING INSTALLATION/Figure 21-1). BRACKET (450) FASTENERS TO FLANGE B4 ARE INSTALLED LATER.</p> |                                  |             |    |     |
| 450      | 332A2910-161  | . BRACKET ASSY   | AFT                              | AFT         |    | 1   |
| 455      | BACB30NM4K3   | . BOLT   |                                  |             |    | 1   |
| 460      | NAS1149C0432R | . WASHER   |                                  |             |    | 1   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 33

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F40398 S00041153667\_V4

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 17)

71-00-02

P/P BUILDUP FIGURE 4-1

Page 34

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

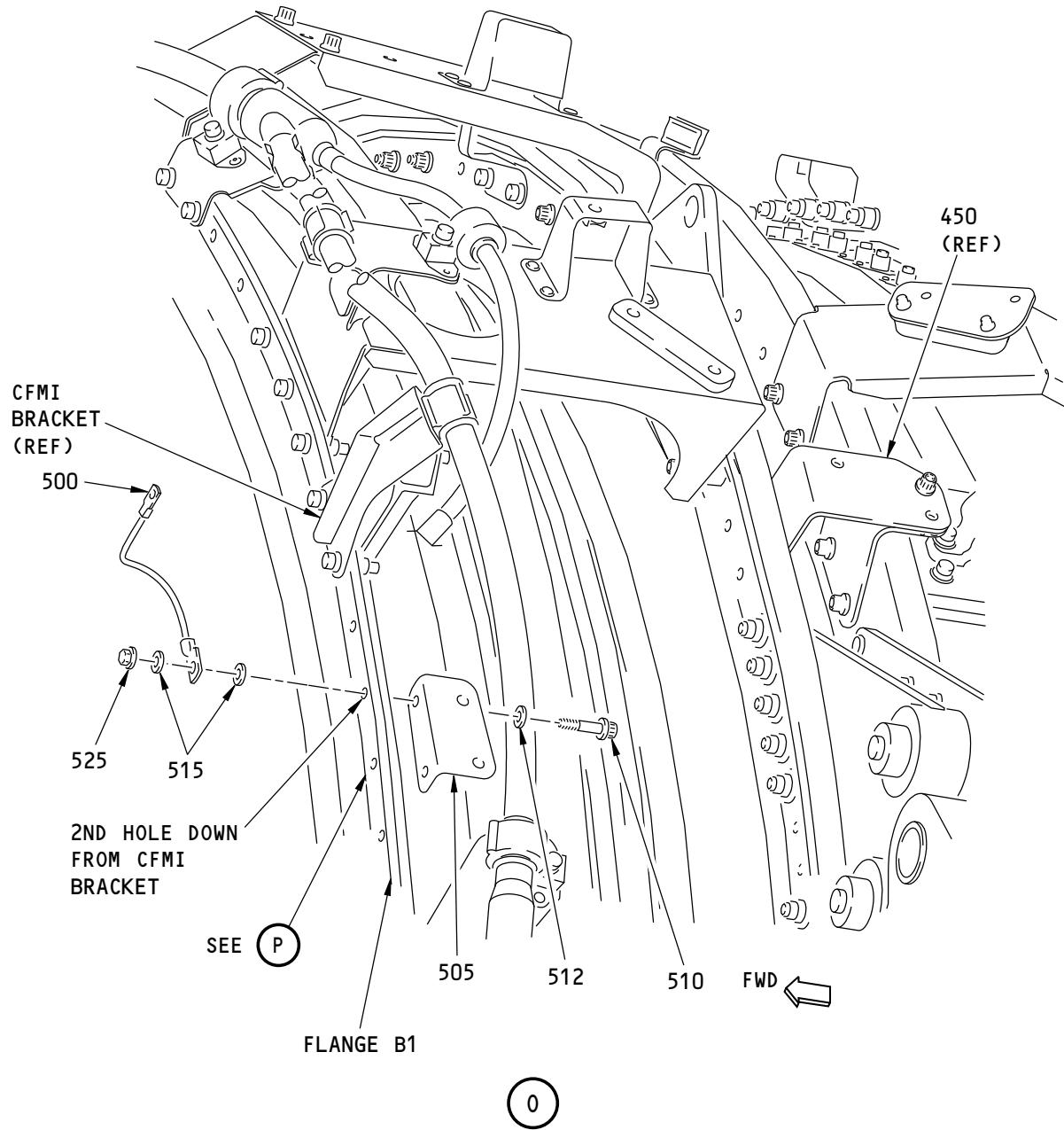
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE</b><br><b>(FIGURE 4-1, SHEET 17)</b><br><u>ORIGINAL CONFIGURATION</u><br><br>ATTACH BRACKET ASSY (450) TO BRACKET ASSY (400) WITH BOLT (485) AT UPPER LOCATION ONLY. TIGHTEN BOLT TO 70-80 POUND-INCHES (8.0-9.0 NEWTON METERS)<br><br><u>NOTE:</u> LOWER HOLE WILL BE USED TO ATTACH HYD PRESSURE HOSE (REF HYDRAULIC PLUMBING INSTALLATION/Figure 21-1).<br>BRACKET (450) FASTENERS TO FLANGE B4 ARE INSTALLED LATER. |                                  |             |     |     |
| 450      | 332A2910-149 | <ul style="list-style-type: none"> <li>. BRACKET ASSY (REPLACED BY 332A2910-161)</li> </ul>  | AFT                              | AFT         | LTD | -   |
| 485      | BACB30ZF4-08 | <ul style="list-style-type: none"> <li>. BOLT (QTY 1)</li> </ul>   |                                  |             | LTD | -   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 35

Jun 15/2016

D633A106-AKS



F40417 S00041153668\_V4

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 18)**

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 36

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

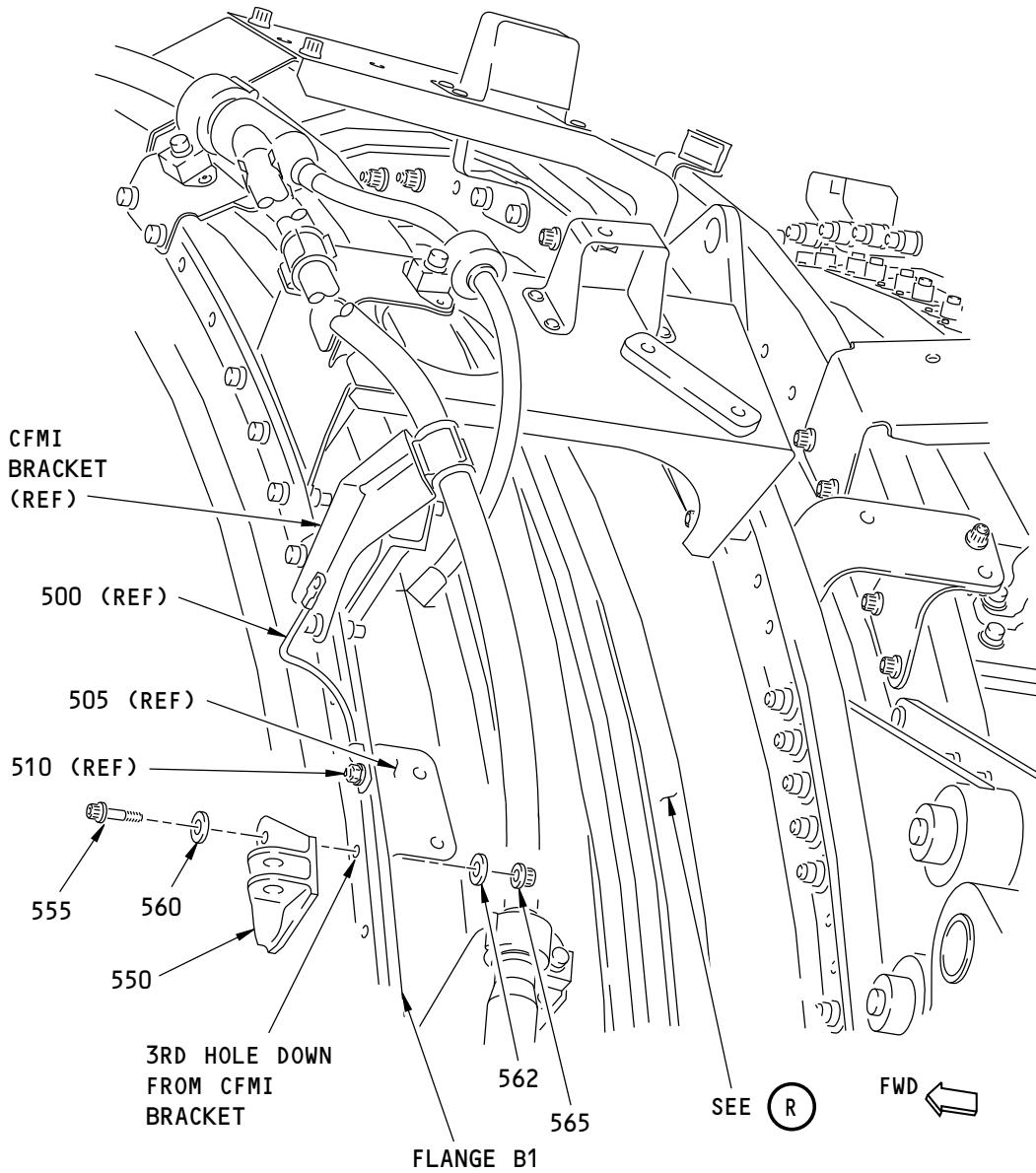
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|---------------|--|----------------------------------|-------------|-----|-----|
|          |               |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |               | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 18)</b><br>CLEAN MATING SURFACES OF BONDING JUMPER (500) AND 2ND HOLE DOWN FROM CFMI BRKT ON FLANGE B1 WITH alcohol, B00130 (C2). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS.<br>. BONDING JUMPER<br>. ALCOHOL<br>POSITION BRACKET ASSY (505) ON 2ND AND 3RD HOLE DOWN FROM CFMI BRKT. AT UPPER HOLE, LOOSELY ATTACH BONDING JUMPER (500) WITH BOLT (510), WASHERS (512, 515) AND NUT (525) (LOWER BOLT WILL BE ATTACHED LATER).<br><u>NOTE:</u> 3RD HOLE DOWN IS SHARED WITH BRACKET ASSY (550).<br><u>NOTE:</u> UPPER END OF BONDING JUMPER (500) IS ATTACHED IN STARTER VALVE AND DUCT INSTALLATION/ Figure 25-1. |                                  |             |     |     |
| 500      | BACJ40AC54-7  |  |                                  |             |     | 1   |
| C2       | B00130        |  |                                  |             | CON | AR  |
| 505      | 332A2910-41   | . BRACKET ASSY   | AFT                              | AFT         |     | 1   |
| 510      | BACB30ZF4-12  | . BOLT (AFT SIDE) (UPPER HOLE)   |                                  |             |     | 1   |
| 512      | BACW10P393CB  | . WASHER (UNDER BOLT HEAD)   |                                  |             |     | 1   |
| 515      | NAS1149D0416H | . WASHER   |                                  |             |     | 2   |
| 525      | BACN10YR4CD   | . NUT  |                                  |             |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 37

Jun 15/2016

D633A106-AKS



2042232 S0000412902\_V1

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 19)**

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 38

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 19)</b><br>LOOSELY ATTACH BRACKET ASSY (550) TO 3RD HOLE DOWN FROM CFMI BRKT. USE BOLT (555), WASHERS (560, 562) AND NUT (565) AT UPPER LOCATION ONLY (LOWER HOLE WILL BE ATTACHED LATER).<br><b>NOTE:</b> 3RD HOLE DOWN IS SHARED WITH BRACKET ASSY (505).  |                                  |             |     |     |
| 550      | 332A2930-99  | . BRACKET ASSY   | FWD                              |             |     | 1   |
| 550      | 332A2930-85  | . BRACKET ASSY (REPLACED BY 332A2930-99)   | FWD                              |             | LTD | -   |
| 550      | 332A2930-33  | . BRKT ASSY (OPTIONAL TO 332A2930-85)  | FWD                              |             | OPT | -   |
| 555      | BACB30ZF4-16 | . BOLT (FWD SIDE)  |                                  |             |     | 1   |
| 560      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)   |                                  |             |     | 1   |
| 562      | BACW10P393CB | . WASHER (UNDER NUT)   |                                  |             |     | 1   |
| 565      | AS3485-10    | . NUT  |                                  |             |     | 1   |
|          |              | WHILE ALIGNING LOWER HOLE ON BRACKET ASSY (550), TIGHTEN BOLTS (510) AND (555) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).<br>APPLY FILLET SEAL OF sealant, A00803 (C4) OR sealant, A50096 (C5) OR adhesive, A00027 (C6) AROUND JUMPER (500) AND BOLT (510). IF sealant, A00803 (C4) IS USED, APPLY Dapco No. 1-100 primer, C00944 (C3) BEFORE SEALANT APPLICATION. |                                  |             |     |     |
| C3       | C00944       | . DAPCO NO. 1-100 PRIMER   |                                  |             | CON | AR  |
| C4       | A00803       | . SEALANT  |                                  |             | CON | AR  |
| C5       | A50096       | . SEALANT  |                                  |             | CON | AR  |
| C6       | A00027       | . ADHESIVE   |                                  |             | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 39

Jun 15/2016

D633A106-AKS

THIS SHEET NOT USED

U64289 S00041154064\_V2

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 20)

**71-00-02**

P/P BUILDUP FIGURE 4-1

Page 40

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 4-1      |             | BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE<br>(FIGURE 4-1, SHEET 20)<br>THIS SHEET NOT USED |    |     |

71-00-02

P/P BUILDUP FIGURE 4-1

Page 41

Jun 15/2016

D633A106-AKS

THIS SHEET NOT USED

U64289 S00041154064\_V2

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 21)

**71-00-02**

P/P BUILDUP FIGURE 4-1

Page 42

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 4-1      |             | BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE<br>(FIGURE 4-1, SHEET 21)<br>THIS SHEET NOT USED |    |     |

71-00-02

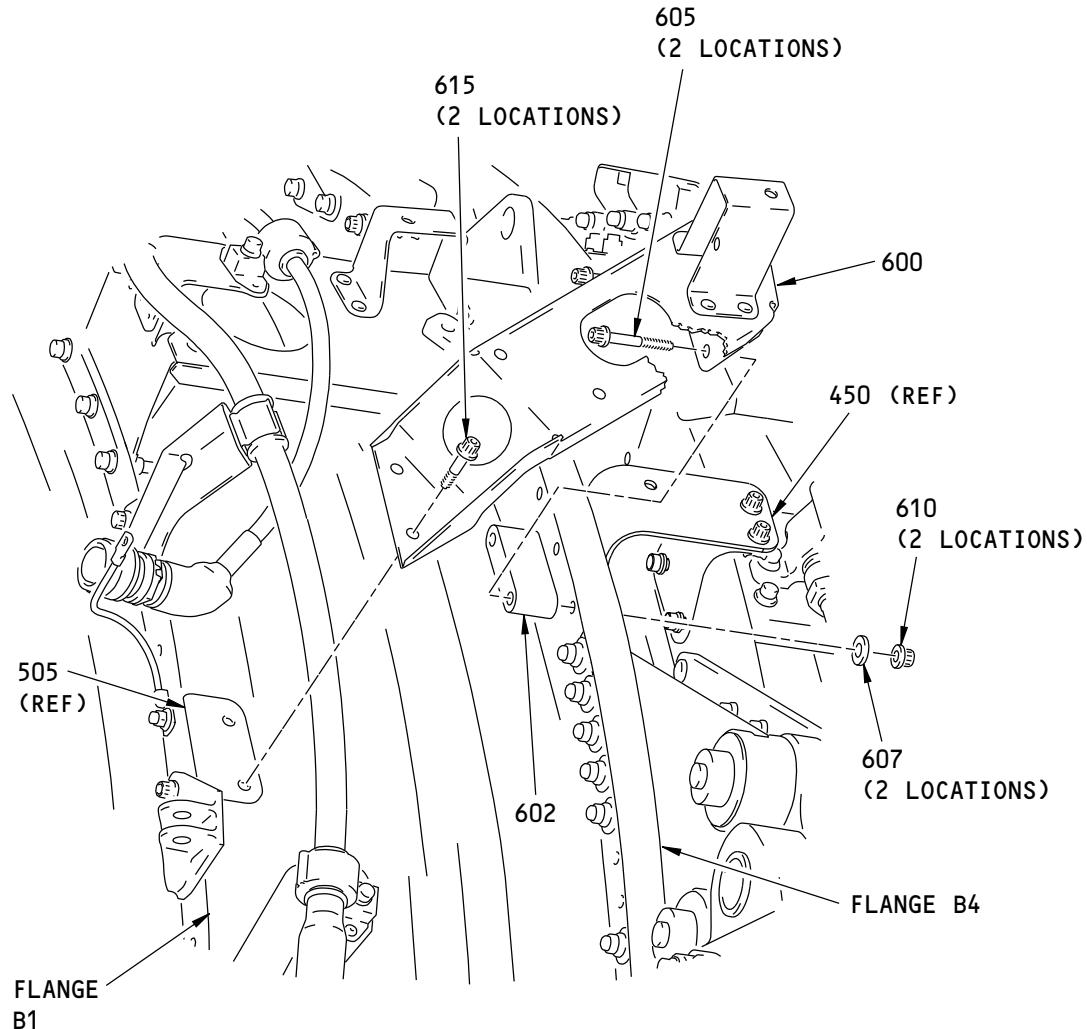
P/P BUILDUP FIGURE 4-1

Page 43

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

W45440 S00041153675\_V2

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 22)

**71-00-02**  
**P/P BUILDUP FIGURE 4-1**  
 Page 44  
 Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

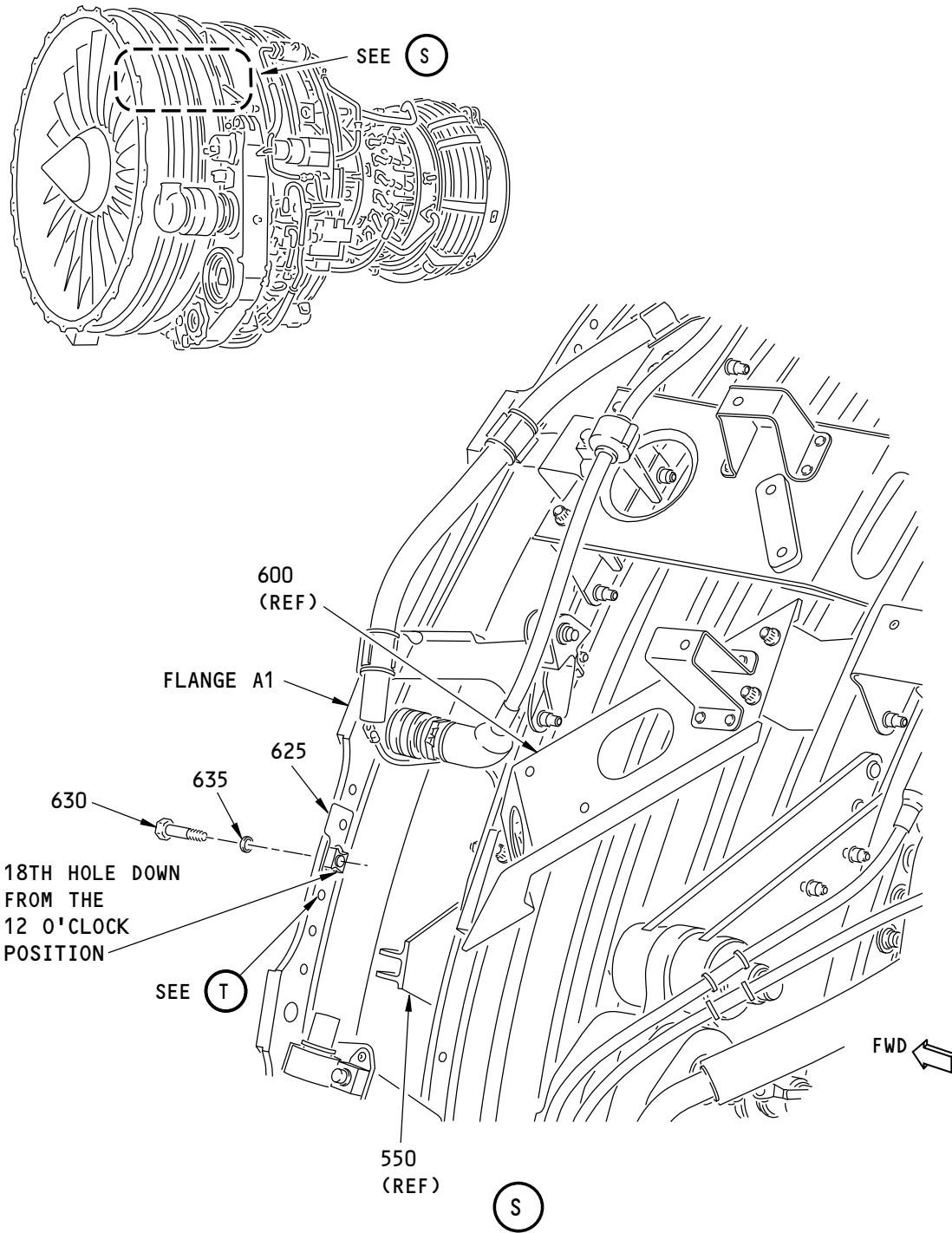
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|--|----------------------------------|-------------|----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 22)</b><br>ATTACH BRACKET ASSY (600), BRACKET DETAIL (602), AND BRACKET ASSY (450) TO FLANGE B4 USING BOLTS (605), WASHERS (607) AND NUTS (610). |                                  |             |    |     |
| 600      | 332A2920-228 | . BRACKET ASSY   | FWD                              |             |    | 1   |
| 602      | 332A2930-89  | . BRACKET DETAIL   |                                  |             |    | 1   |
| 605      | BACB30ZF4-26 | . BOLT (FWD SIDE)  |                                  |             |    | 2   |
| 607      | BACW10P393CB | . WASHER (UNDER NUT)   |                                  |             |    | 2   |
| 610      | AS3485-10    | . NUT  |                                  |             |    | 2   |
| 615      | BACB30ZF4-06 | ATTACH BRACKET ASSY (600) TO BRACKET (505) USING BOLTS (615).<br>TIGHTEN BOLTS (605) TO 80-90 POUND-INCHES (9.0-10.0 NEWTON METERS), AND BOLTS (615) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).                |                                  |             |    | 2   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 45

Jun 15/2016

D633A106-AKS



F40454 S00041153676\_V2

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 23)**

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 46

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

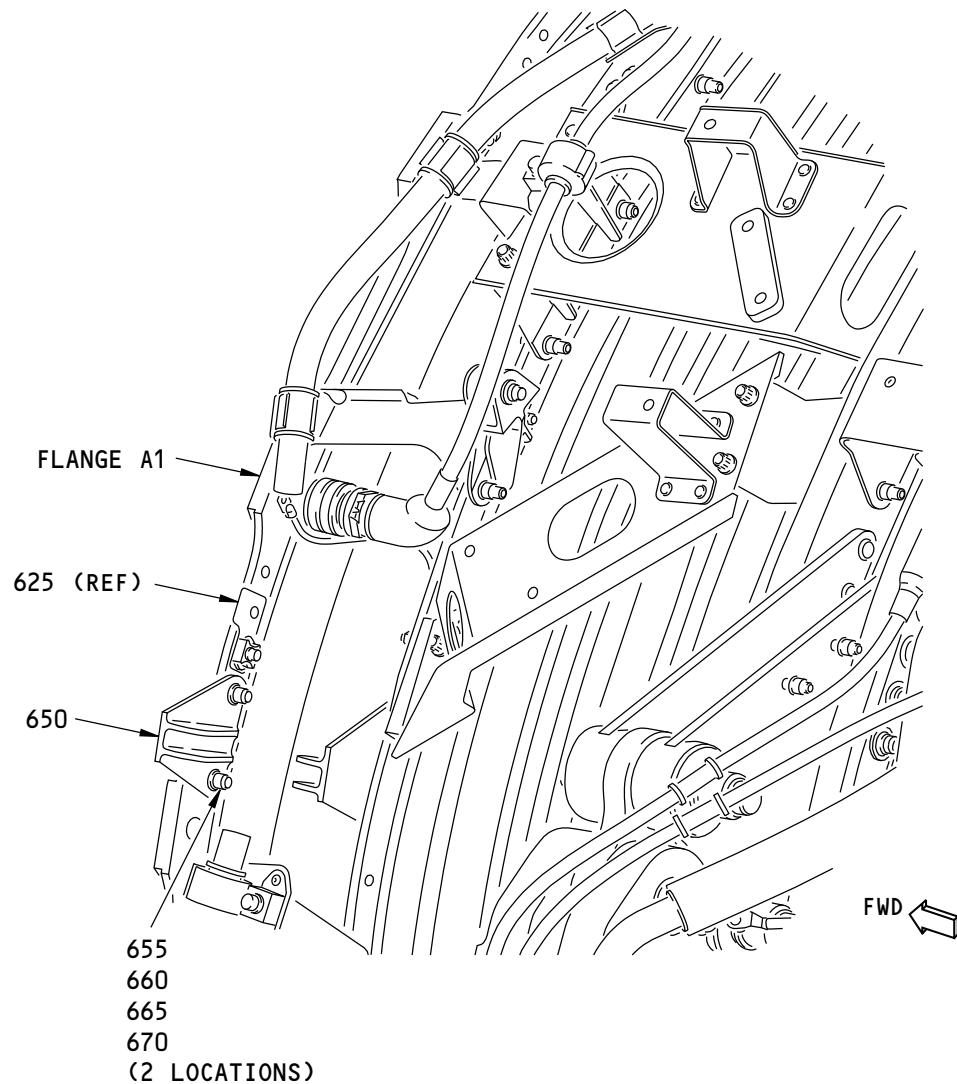
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 23)</b><br>ATTACH BRACKET ASSY (625) TO 18TH HOLE DOWN ON FLANGE A1. USE BOLT (630) AND WASHER (635).<br><ul style="list-style-type: none"> <li>. BRACKET ASSY</li> <li>. BRACKET ASSY (OPTIONAL TO 332A2910-138)</li> <li>. BOLT (FWD SIDE)</li> <li>. WASHER (CSK) (UNDER BOLT HEAD)</li> </ul> TIGHTEN BOLT (630) TO 90-110 POUND-INCHES (10.2-12.4 NEWTON METERS). |                                  |             |     |     |
| 625      | 332A2910-138 |  | AFT                              |             |     | 1   |
| 625      | 332A2910-91  |  | AFT                              |             | OPT | -   |
| 630      | BACB30NM4K5  |  |                                  |             |     | 1   |
| 635      | BACW10BP4ACU |  |                                  |             |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 47

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F40463 S00041153677\_V1

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 24)

71-00-02

P/P BUILDUP FIGURE 4-1

Page 48

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

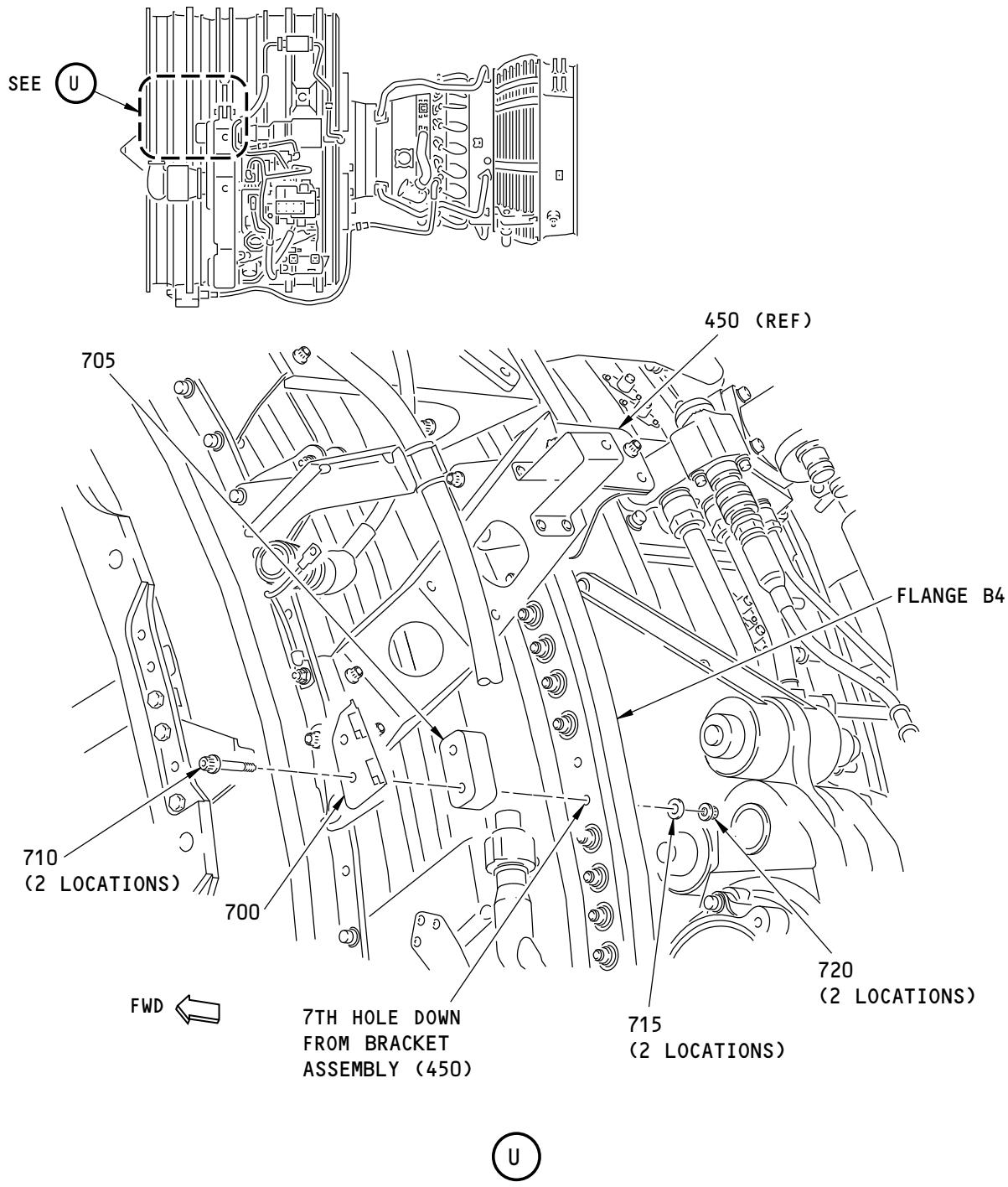
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|---------------|---|----------------------------------|-------------|----|-----|
|          |               |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |               | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 24)</b><br>ATTACH BRACKET ASSY (650) TO 1ST AND 3RD HOLES DOWN FROM BRACKET ASSY (625) ON FLANGE A1. USE BOLTS (655), WASHER (660) AND (665), AND NUTS (670). |                                  |             |    |     |
| 650      | 332A2930-7    | . BRACKET ASSY  | AFT                              |             |    | 1   |
| 655      | BACB30NM4K7   | . BOLT (FWD SIDE)   |                                  |             |    | 2   |
| 660      | BACW10BP4ACU  | . WASHER (CSK) (UNDER BOLT)   |                                  |             |    | 2   |
| 665      | NAS1149D0416H | . WASHER (UNDER NUT)  |                                  |             |    | 2   |
| 670      | AS3485-10     | . NUT   |                                  |             |    | 2   |
|          |               | TIGHTEN BOLTS (655) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 49

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

L98587 S00041153679\_V1

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 25)

71-00-02

P/P BUILDUP FIGURE 4-1

Page 50

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

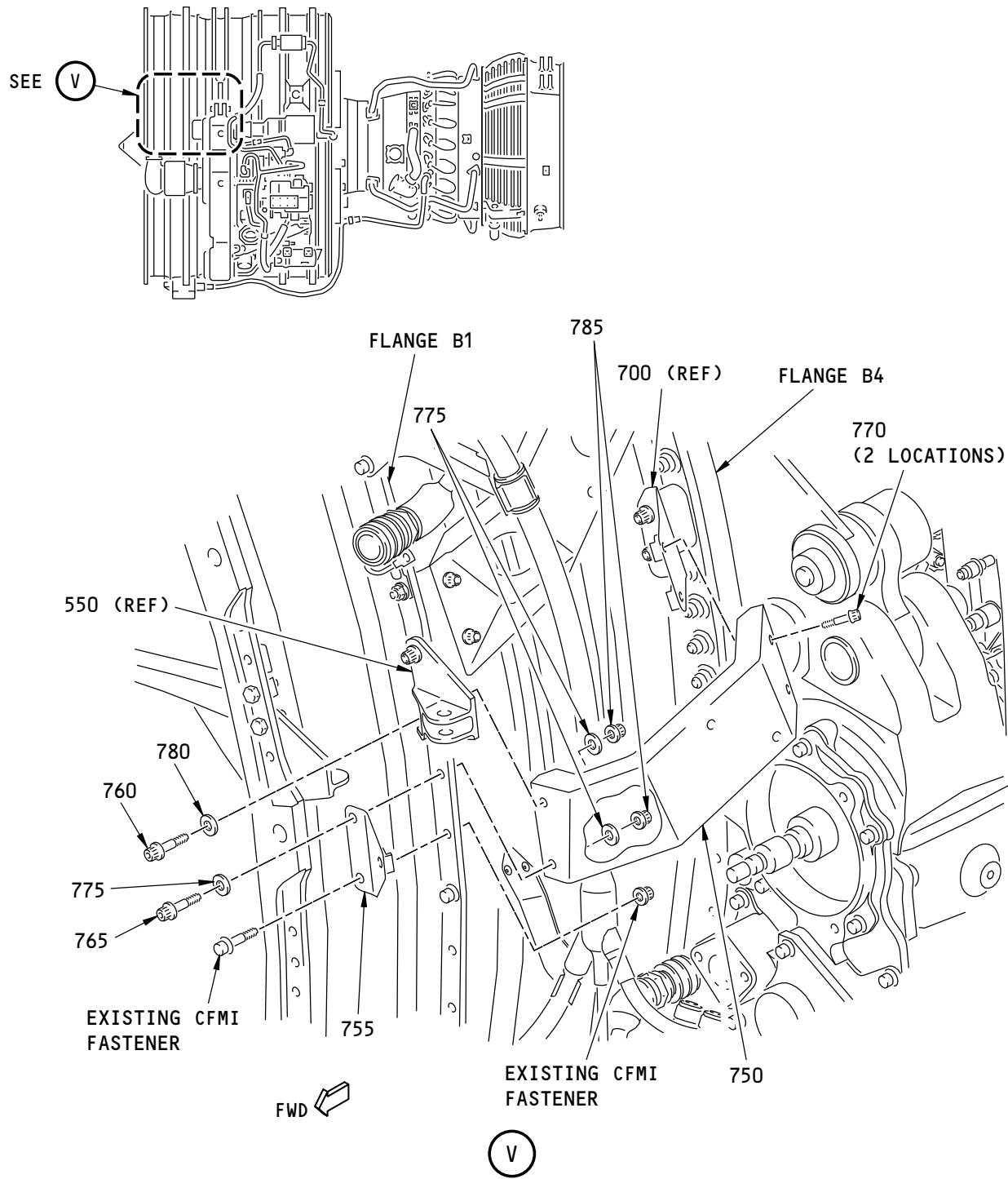
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|---------------|--|----------------------------------|-------------|-----|-----|
|          |               |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |               | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 25)</b><br>ATTACH BRACKET ASSYS (700) AND (705) TO 6TH AND 7TH HOLES DOWN FROM BRACKET ASSY (450) ON FLANGE B4. USE BOLTS (710), WASHERS (715) AND NUTS (720). |                                  |             |     |     |
| 700      | 332A2910-125  | . BRACKET ASSY   | FWD                              | FWD         |     | 1   |
| 700      | 332A2930-57   | . BRACKET ASSY (OPTIONAL TO 332A2910-125)  | FWD                              | FWD         | OPT | -   |
| 705      | 332A2930-88   | . BRACKET  | FWD                              |             |     | 1   |
| 710      | BACB30ZF4-34  | . BOLT (FWD SIDE)  |                                  |             |     | 2   |
| 715      | NAS1149C0432R | . WASHER (UNDER NUT)   |                                  |             |     | 2   |
| 720      | AS3485-10     | . NUT  |                                  |             |     | 2   |
|          |               | TIGHTEN BOLTS (710) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 51

Jun 15/2016

D633A106-AKS



F40640 S00041153680\_V3

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 26)**

**71-00-02**  
**P/P BUILDUP FIGURE 4-1**  
 Page 52  
 Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 26)</b><br>ATTACH BRACKET ASSY (750) TO BRACKET ASSY (700) ON FLANGE B4 AND BRACKET ASSYS (550) AND (755) ON FLANGE B1. USE BOLTS (760, 765 AND 770), WASHERS (775, 780), NUTS (785) AND EXISTING CFMI FASTENERS. |                                  |             |     |     |
| 750      | 332A2920-224 | . BRACKET ASSY  | AFT                              | AFT         |     | 1   |
| 755      | 332A2910-136 | . BRACKET ASSY  | FWD                              |             |     | 1   |
| 755      | 332A2910-89  | . BRACKET ASSY (OPTIONAL TO 332A2910-136)   | FWD                              |             | OPT | -   |
| 760      | BACB30ZF4-16 | . BOLT (FWD SIDE) (THROUGH LOWER HOLE OF ITEM 550 AND UPPER HOLE OF ITEM 750)   |                                  |             |     | 1   |
| 765      | BACB30ZF4-14 | . BOLT (FWD SIDE) (THROUGH UPPER HOLE OF ITEM 755 AND LOWER HOLE OF ITEM 750)   |                                  |             |     | 1   |
| 770      | BACB30ZF4-08 | . BOLT  |                                  |             |     | 2   |
| 775      | BACW10P393CB | . WASHER (UNDER BOLT HEAD (ITEM 765) AND UNDER NUTS (ITEM 785))   |                                  |             |     | 3   |
| 780      | BACW10BP4ACU | . WASHER (UNDER BOLT HEAD (ITEM 760))   |                                  |             |     | 1   |
| 785      | AS3485-10    | . NUT   |                                  |             |     | 2   |
|          |              | TIGHTEN BOLTS (760, 765 AND 770) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). TIGHTEN EXISTING CFMI FASTENER TO 100-112 POUND-INCHES (11.3-12.7 NEWTON METERS).   |                                  |             |     |     |

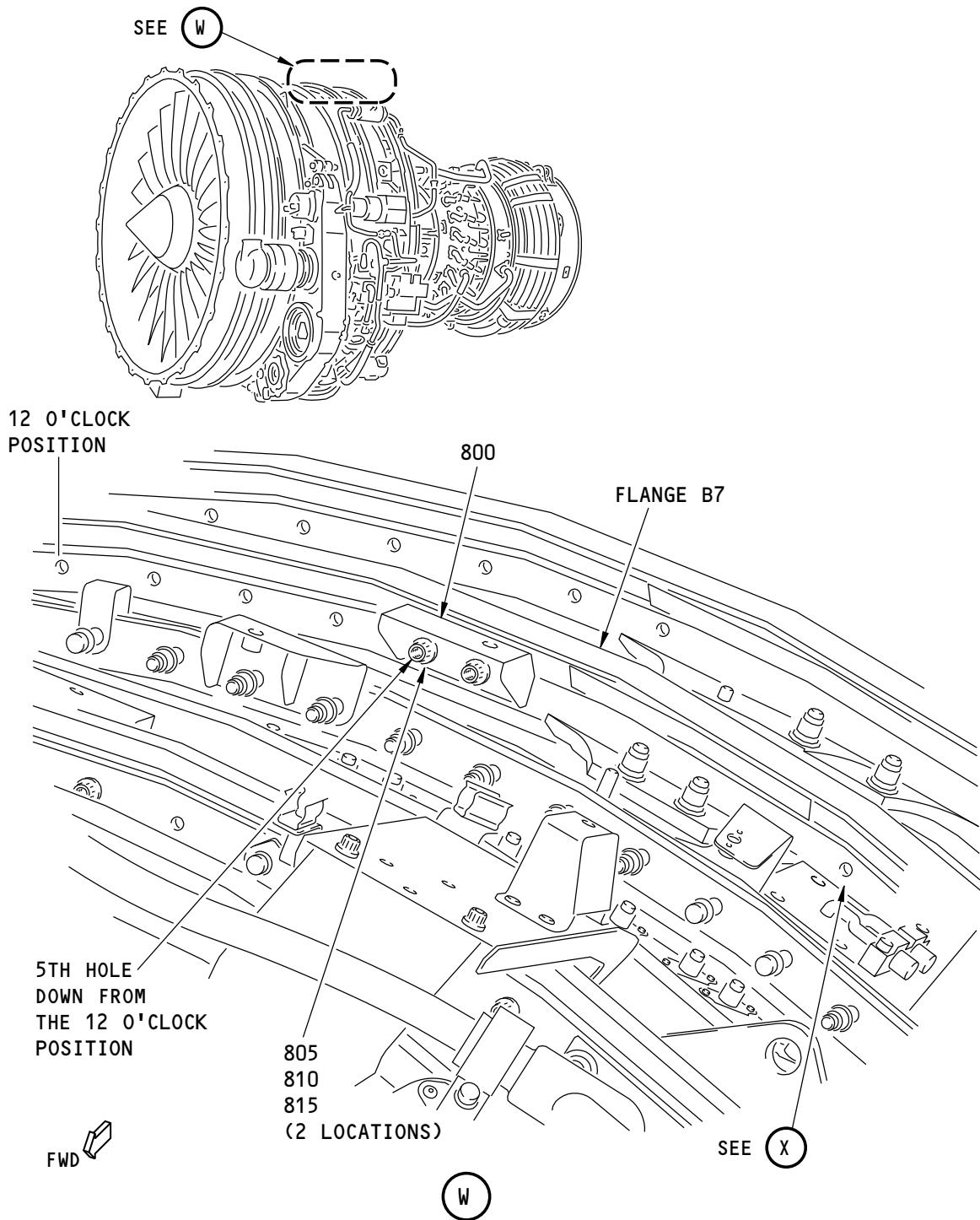
**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 53

Jun 15/2016

D633A106-AKS

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F40644 S00041153681\_V1

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 27)**

**71-00-02**  
**P/P BUILDUP FIGURE 4-1**  
 Page 54  
 Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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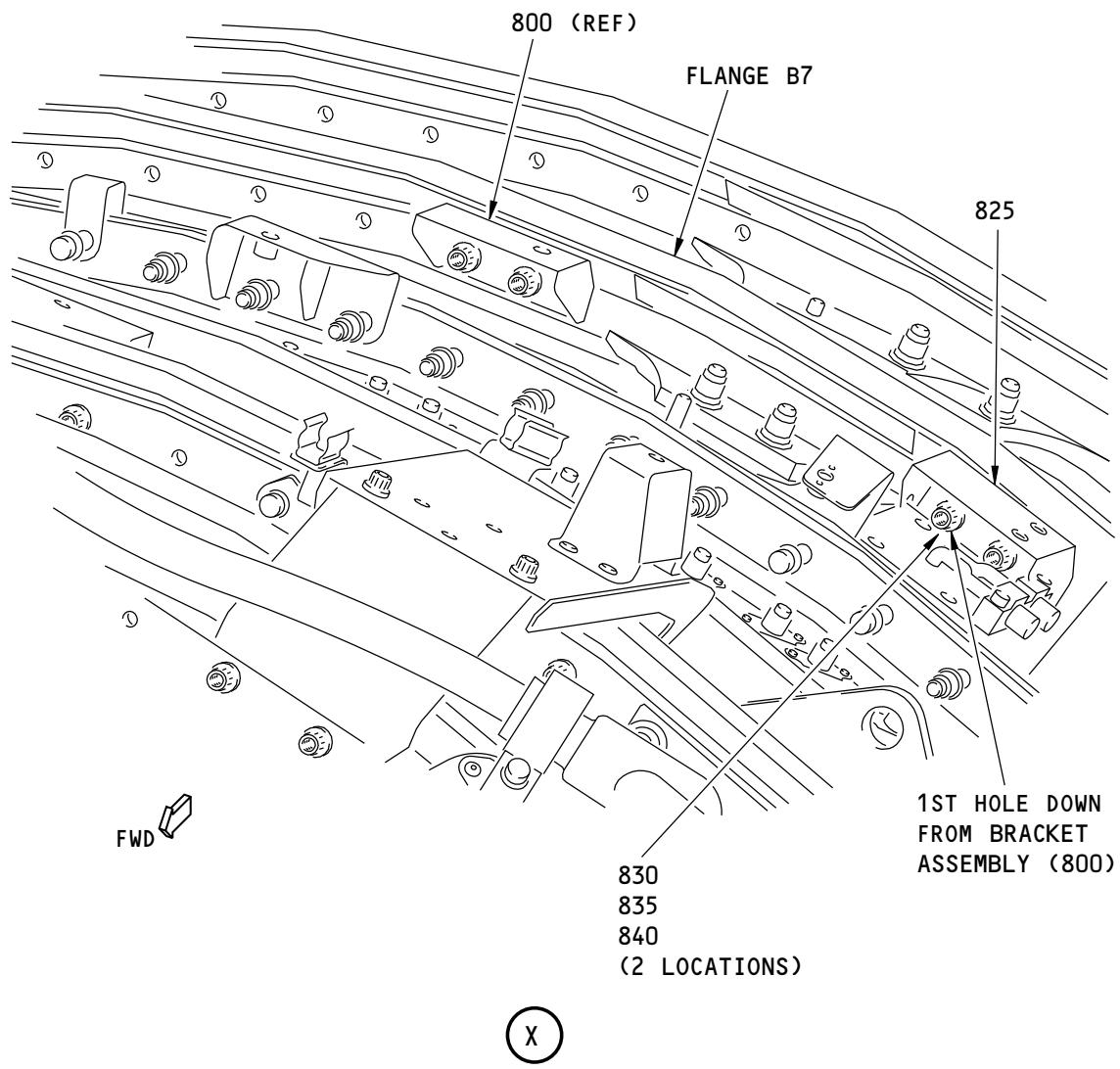
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 27)</b><br>ATTACH BRACKET ASSY (800) TO 5TH AND 6TH HOLES DOWN FROM 12 O'CLOCK ON FLANGE B7. USE BOLTS (805), WASHERS (810), AND NUTS (815).<br><br>800 332A2920-222 . BRACKET ASSY<br>805 BACB30ZF4-12 . BOLT (FWD SIDE)<br>810 BACW10P393CB . WASHER (UNDER NUT)<br>815 AS3485-10 . NUT<br><br>TIGHTEN BOLTS (805) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).<br><br><b>NOTE:</b> BRACKET (800) MAY BE INSTALLED IN FORWARD ENGINE MOUNT INSTALLATION/Figure 2-1 FORWARD ENGINE MOUNT INSTALLATION. |                                  |             |    |     |
| 800      | 332A2920-222 | . BRACKET ASSY  | FWD                              | FWD         |    | 1   |
| 805      | BACB30ZF4-12 | . BOLT (FWD SIDE)   |                                  |             |    | 2   |
| 810      | BACW10P393CB | . WASHER (UNDER NUT)  |                                  |             |    | 2   |
| 815      | AS3485-10    | . NUT   |                                  |             |    | 2   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 55

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F40654 S00041153682\_V1

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 28)

71-00-02

P/P BUILDUP FIGURE 4-1

Page 56

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

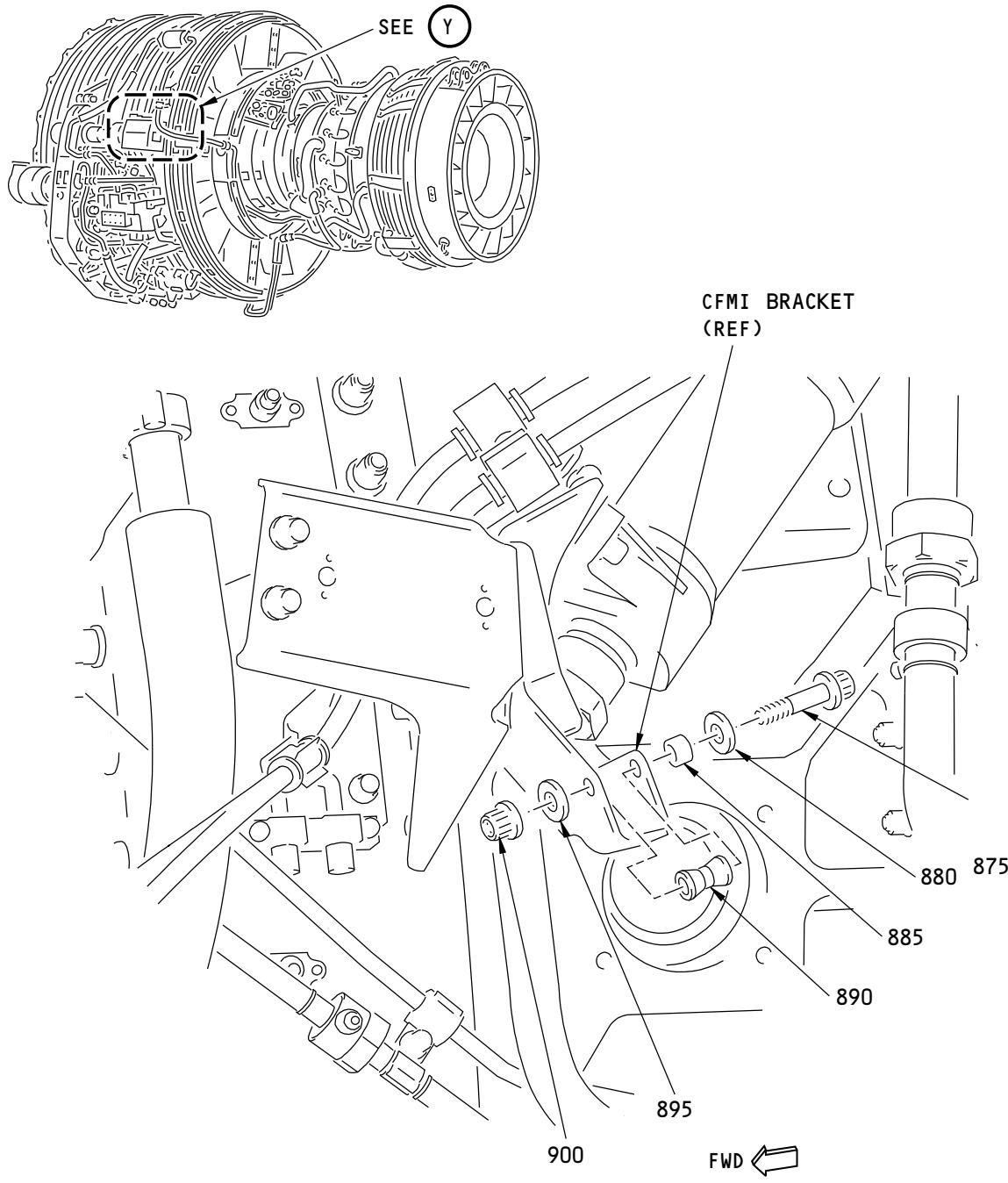
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |              | BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE<br>(FIGURE 4-1, SHEET 28)<br><br>CLEAN MATING SURFACES OF BRACKET ASSY (825) AND FLANGE B7 WITH alcohol, B00130 (C2). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS. |                                  |             |    |     |
| 825      | 332A2920-15  | . BRACKET ASSY  | FWD                              | FWD         |    | 1   |
| C2       | B00130       | . ALCOHOL<br><br>ATTACH BRACKET ASSY (825) TO 1ST AND 2ND HOLES DOWN FROM BRACKET ASSY (800) ON FLANGE B7. USE BOLTS (830), WASHERS (835), AND NUTS (840).  |                                  | CON         |    | AR  |
| 830      | BACB30ZF4-14 | . BOLT (FWD SIDE)   |                                  |             |    | 2   |
| 835      | BACW10P393CB | . WASHER (UNDER NUT)  |                                  |             |    | 2   |
| 840      | AS3485-10    | . NUT<br><br>TIGHTEN BOLTS (830) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |    | 2   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 57

Jun 15/2016

D633A106-AKS



F40663 S00041153683\_V1

**Bracket Installation - Upper Left Side Fan Case**  
**Figure 4-1 (Sheet 29)**

**71-00-02**  
**P/P BUILDUP FIGURE 4-1**

Page 58

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

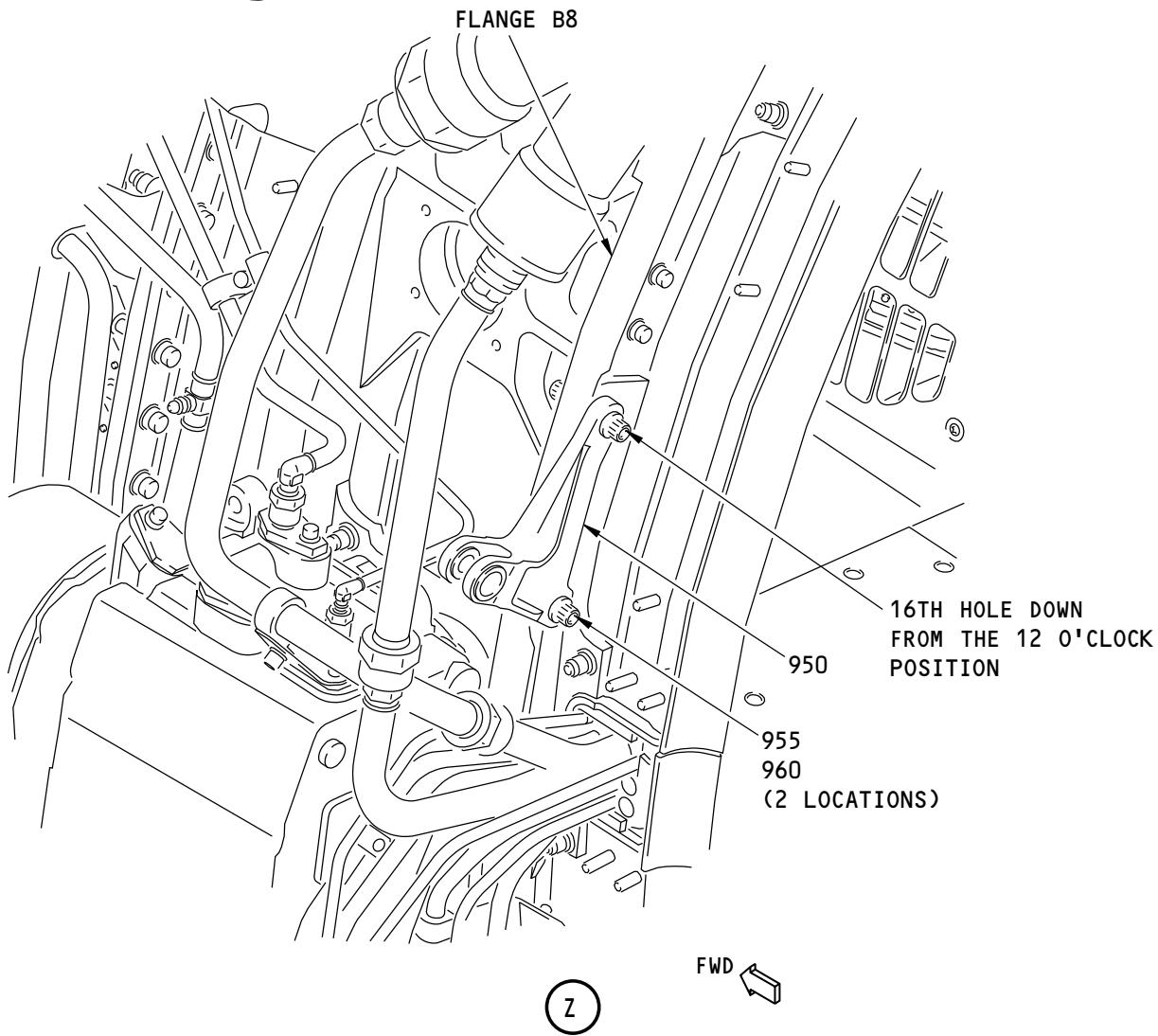
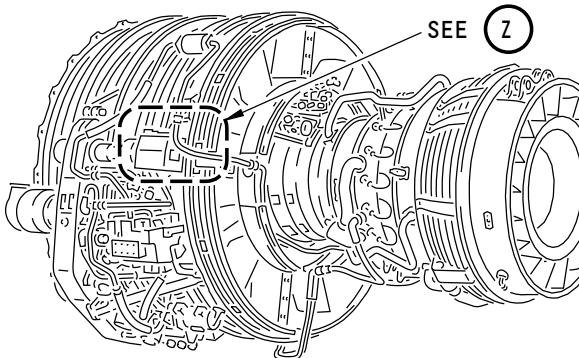
| ITEM NO. | PART NUMBER    | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|----------------|---|----------------------------------|-------------|-----|-----|
|          |                |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 4-1      |                | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 29)</b><br>INSTALL SPOOL (890) USING BOLT (875), WASHERS (880) AND (895), BUSHING (885) AND NUT (900).<br>. BOLT (AFT SIDE)<br>. WASHER (CSK) (UNDER BOLT HEAD)<br>. BUSHING<br>. SPOOL (V08844)<br>. WASHER (UNDER NUT)<br>. NUT (FWD SIDE)<br>TIGHTEN BOLT (875) TO 30-35 POUND-INCHES (3.4-4.0 NEWTON METERS). |                                  |             |     |     |
| 875      | BACB30LE3U18   |   |                                  |             |     | 1   |
| 880      | BACW10BP3ACU   |   |                                  |             |     | 1   |
| 885      | BACB28AK03-027 |   |                                  |             |     | 1   |
| 890      | RC2769-1       |   |                                  |             | VEN | 1   |
| 895      | NAS1149E0332R  |   |                                  |             |     | 1   |
| 900      | BACN11Z3CK     |   |                                  |             |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 59

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

G82692 S00041153684\_V1

Bracket Installation - Upper Left Side Fan Case  
Figure 4-1 (Sheet 30)

**71-00-02**  
**P/P BUILDUP FIGURE 4-1**  
 Page 60  
 Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 4-1      |              | <b>BRACKET INSTALLATION - UPPER LEFT SIDE FAN CASE (FIGURE 4-1, SHEET 30)</b><br>APPLY A THIN COATING OF compound, D50004 (C7) TO BOLTS (955).<br>ATTACH BRACKET ASSY (950) TO 16TH AND 17TH HOLE DOWN FROM 12 O'CLOCK ON FLANGE B8. USE BOLTS (955) AND WASHERS (960). |                                  |             |    |     |
| 950      | 332A2930-61  | . BRACKET ASSY  | AFT                              |             |    | 1   |
| 955      | BACB30LE5U6  | . BOLT (AFT SIDE)   |                                  |             |    | 2   |
| 960      | BACW10BP5ACU | . WASHER (CSK) (UNDER BOLT HEAD)  |                                  |             |    | 2   |
| C7       | D50004       | . COMPOUND<br><br>TIGHTEN BOLTS (955) TO 123-136 POUND-INCHES (13.9-15.4 NEWTON METERS).  |                                  | CON         | AR |     |

**71-00-02****P/P BUILDUP FIGURE 4-1**

Page 61

Jun 15/2016

D633A106-AKS

**FIGURE 5-1**

**BRACKET INSTALLATION - LOWER LEFT FAN  
CASE**

**REF QEC TASK NO.: 5**

**REF DWG: 332A2900**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

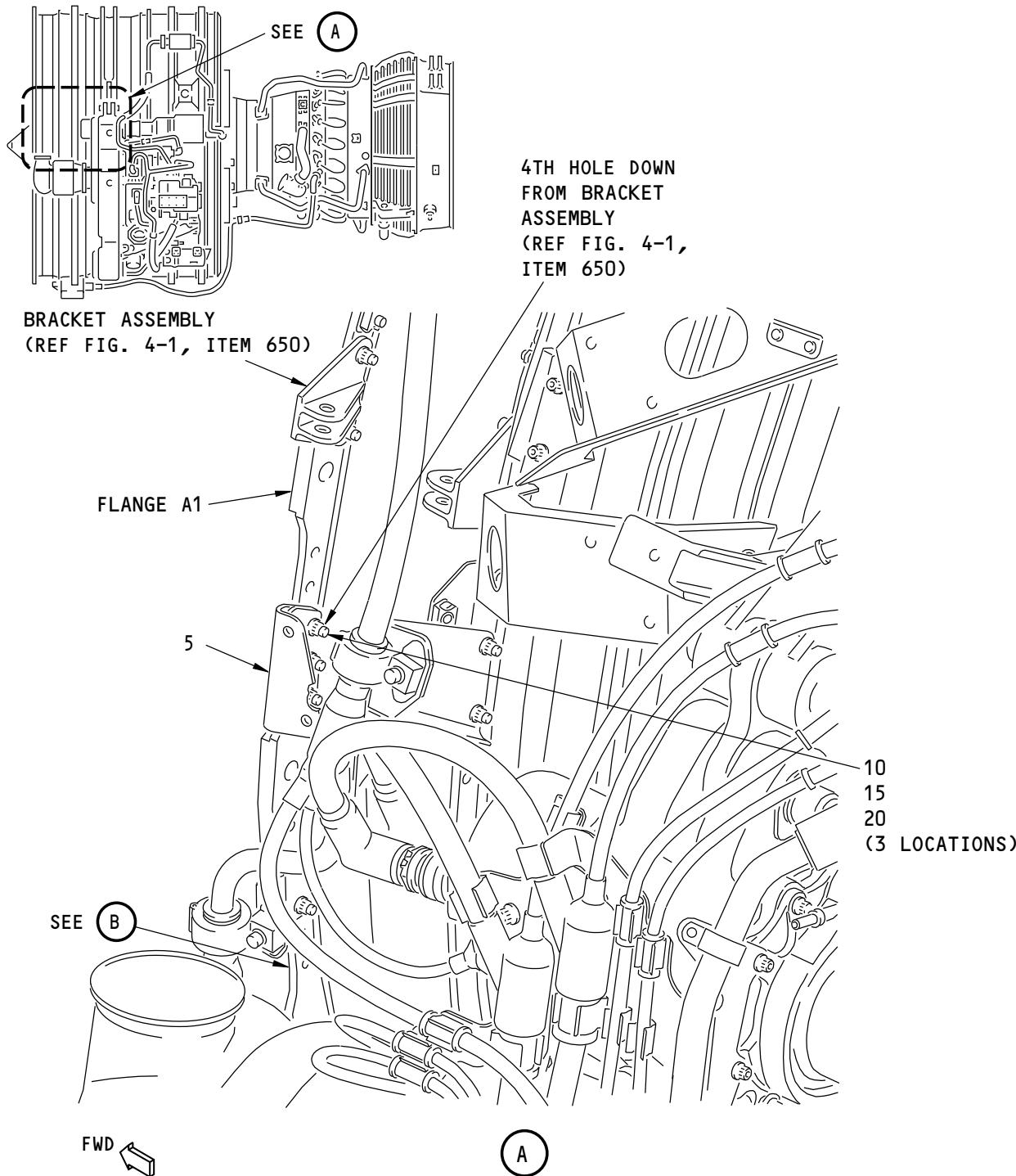
**P/P BUILDUP FIGURE 5-1**

**Page 1**

**Jun 15/2016**

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F38183 S00041153686\_V1

Bracket Installation - Lower Left Side Fan Case  
Figure 5-1 (Sheet 1)71-00-02  
P/P BUILDUP FIGURE 5-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

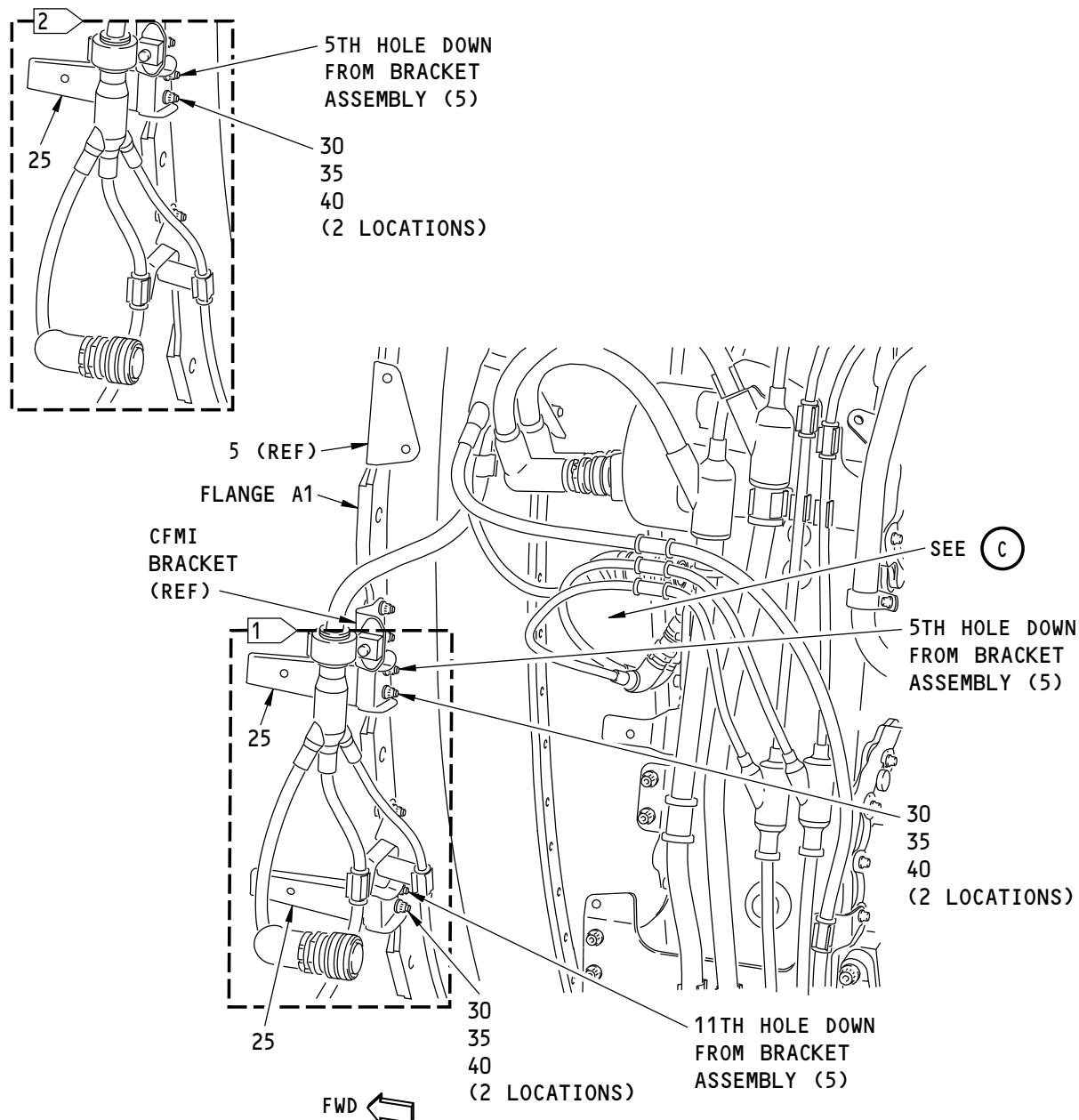
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|--|----------------------------------|-------------|----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 1)</b><br>ATTACH BRACKET ASSY (5) TO 4TH, 5TH AND 6TH HOLE DOWN FROM BRACKET ASSY (BRACKET INSTALLATION - UPPER LEFT FAN CASE/Figure 4-1, ITEM (650)) ON FLANGE A1.<br>USE BOLTS (10), WASHERS (15) AND NUTS (20). |                                  |             |    |     |
| 5        | 332A2910-24  | . BRACKET ASSY   | AFT                              | AFT         |    | 1   |
| 10       | BACB30NM4K7  | . BOLT (FWD SIDE)  |                                  |             |    | 3   |
| 15       | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)   |                                  |             |    | 3   |
| 20       | AS3485-10    | . NUT  |                                  |             |    | 3   |
|          |              | TIGHTEN BOLTS (10) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 3

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

NOTE: STARTER NOT SHOWN.

- 1 ⚡ ENGINES WITH TWO BRACKET ASSEMBLIES (25) (PREFERRED)  
 2 ⚡ ENGINES WITH ONE BRACKET ASSEMBLY (25) (ORIGINAL)

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Bracket Installation - Lower Left Side Fan Case  
Figure 5-1 (Sheet 2)71-00-02  
P/P BUILDUP FIGURE 5-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

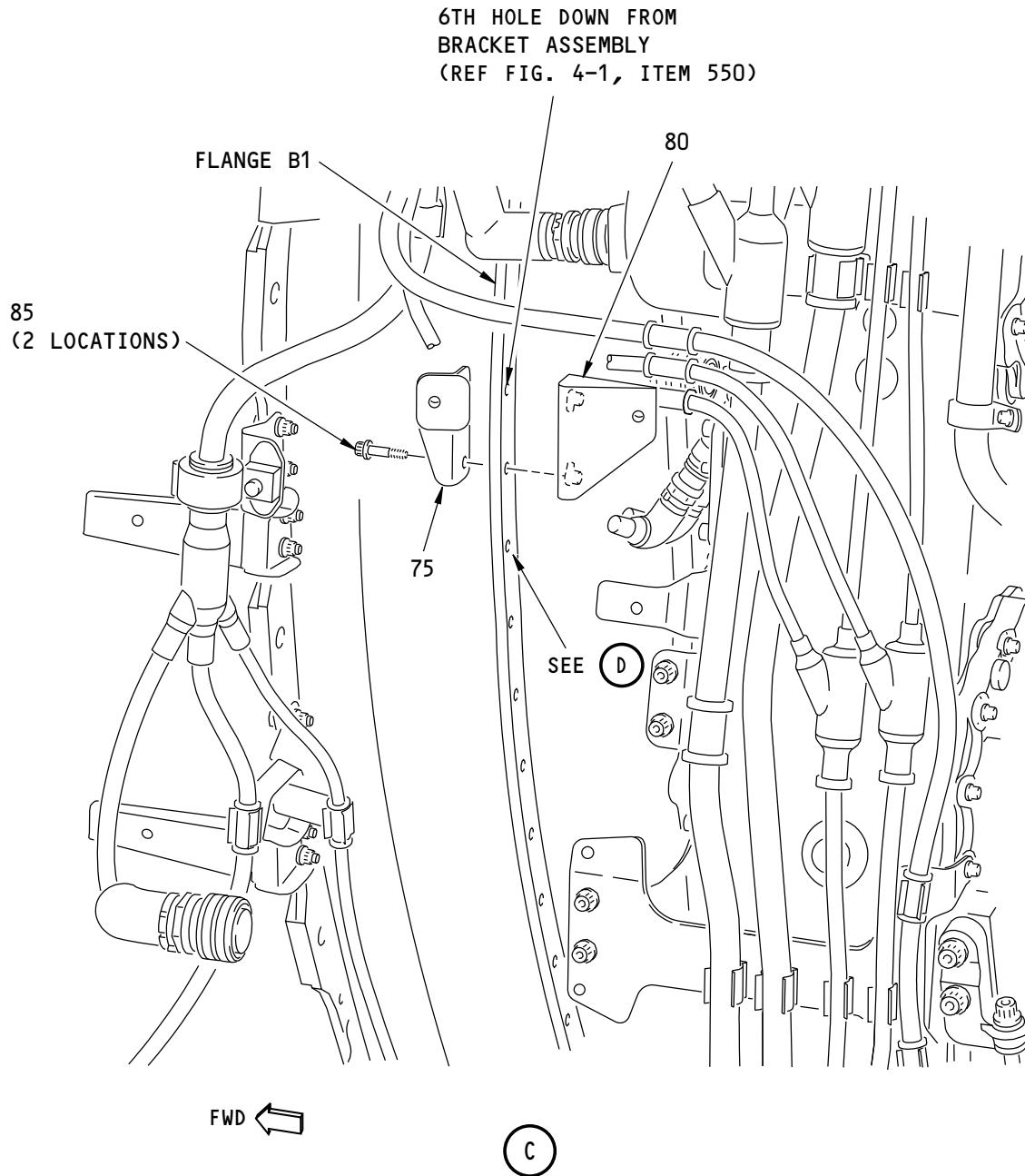
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 2)</b><br><u>PREFERRED BRACKET CONFIGURATION</u><br>ATTACH BRACKET ASSYS (25) TO 5TH AND 6TH HOLE DOWN FROM BRACKET ASSY (5) AND 11TH AND 12TH HOLE DOWN FROM BRACKET ASSY (5) ON FLANGE A1.<br>USE BOLTS (30), WASHERS (35) AND NUTS (40). |                                  |             |     |     |
| 25       | 332A2920-245 | . BRACKET ASSY  | AFT                              | FWD         | 2   |     |
| 30       | BACB30NM4K6  | . BOLT (FWD SIDE)   |                                  |             | 4   |     |
| 35       | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)  |                                  |             | 4   |     |
| 40       | AS3485-10    | . NUT   |                                  |             | 4   |     |
|          |              | TIGHTEN BOLTS (30) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS).   |                                  |             |     |     |
|          |              | <u>ORIGINAL BRACKET CONFIGURATION</u>   |                                  |             |     |     |
|          |              | ATTACH BRACKET ASSY (25) TO 5TH AND 6TH HOLE DOWN FROM BRACKET ASSY (5) ON FLANGE A1.<br>USE BOLTS (30), WASHERS (35) AND NUTS (40).  |                                  |             |     |     |
| 25       | 332A2920-245 | . BRACKET ASSY (1 REQD)   | AFT                              | FWD         | LTD | -   |
| 25       | 332A2920-193 | . BRACKET ASSY (REPLACED BY 332A2920-245)   | AFT                              | FWD         | LTD | -   |
| 25       | 332A2920-110 | . BRACKET ASSY (OPTIONAL TO 332A2920-193)   | AFT                              | FWD         | OPT | -   |
| 30       | BACB30NM4K6  | . BOLT (FWD SIDE) (2 REQD)  |                                  |             | LTD | -   |
| 35       | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD) (2 REQD)   |                                  |             | LTD | -   |
| 40       | AS3485-10    | . NUT (2 REQD)  |                                  |             | LTD | -   |
|          |              | TIGHTEN BOLTS (30) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS).   |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 5

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

NOTE: STARTER NOT SHOWN FOR CLARITY.

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**Bracket Installation - Lower Left Side Fan Case**  
**Figure 5-1 (Sheet 3)**

**71-00-02**

**P/P BUILDUP FIGURE 5-1**

Page 6

Jun 15/2016

D633A106-AKS

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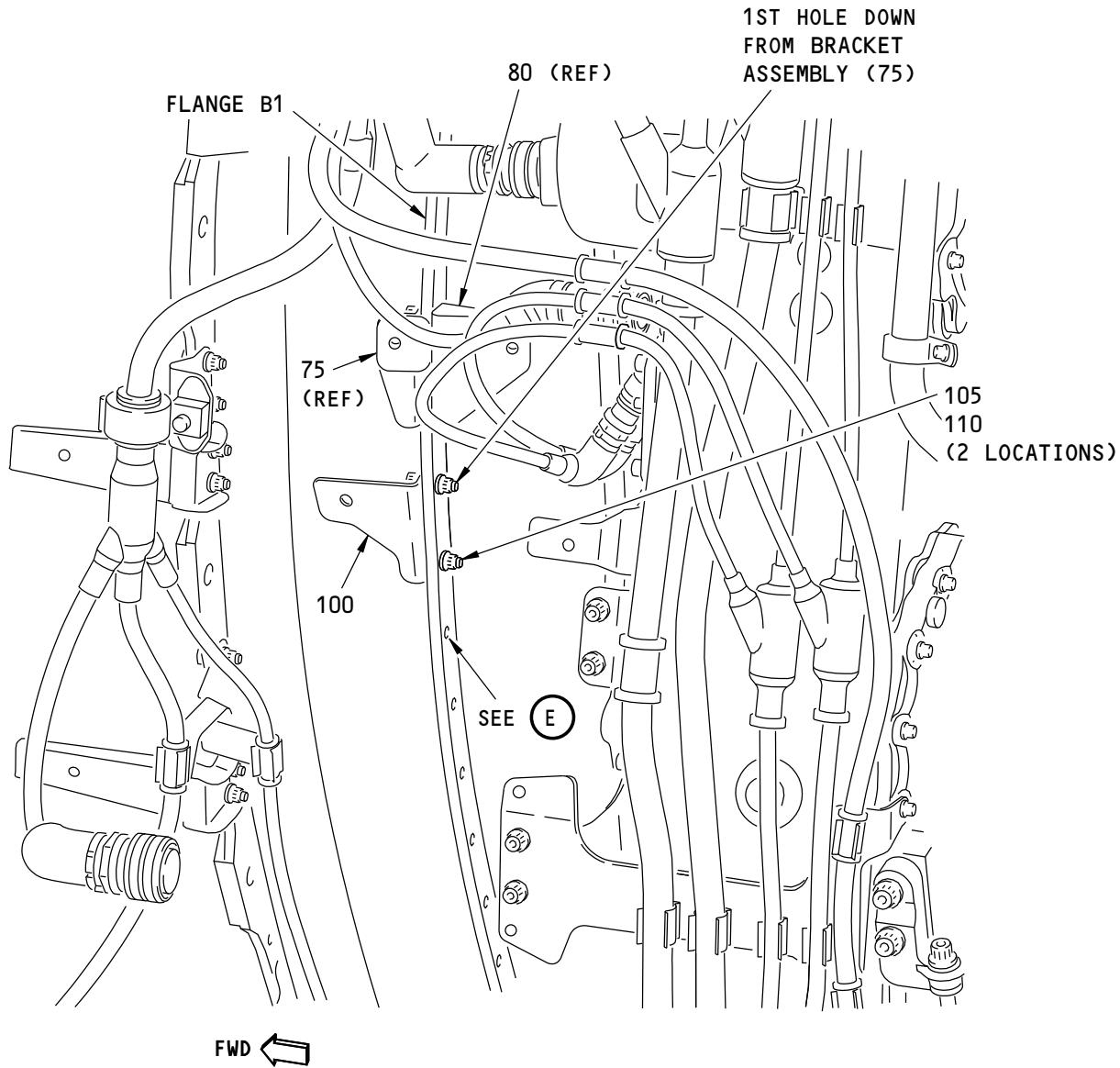
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 3)</b><br>ATTACH BRACKET ASSYS (75) AND (80) ON 6TH AND 7TH HOLE DOWN FROM BRACKET ASSY (BRACKET INSTALLATION - UPPER LEFT FAN CASE/Figure 4-1, ITEM (550)) ON FLANGE B1.<br>USE BOLTS (85) AND WASHERS (90). |                                  |             |     |     |
| 75       | 332A2910-134 | . BRACKET ASSY  | FWD                              | FWD         | 1   |     |
| 75       | 332A2910-69  | . BRACKET ASSY (OPTIONAL TO 332A2910-134)   | FWD                              | FWD         | OPT | -   |
| 80       | 332A2920-92  | . BRACKET ASSY  | AFT                              | AFT         | 1   |     |
| 85       | BACB30ZF4-11 | . BOLT (FWD SIDE)   |                                  |             | 2   |     |
| 90       | BACW10P393CB | . WASHER (UNDER BOLT HEAD)<br>TIGHTEN BOLTS (85) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             | 2   |     |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 7

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

NOTE: STARTER NOT SHOWN FOR CLARITY.

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**Bracket Installation - Lower Left Side Fan Case**  
**Figure 5-1 (Sheet 4)**

**71-00-02**  
**P/P BUILDUP FIGURE 5-1**

Page 8

Jun 15/2016

D633A106-AKS

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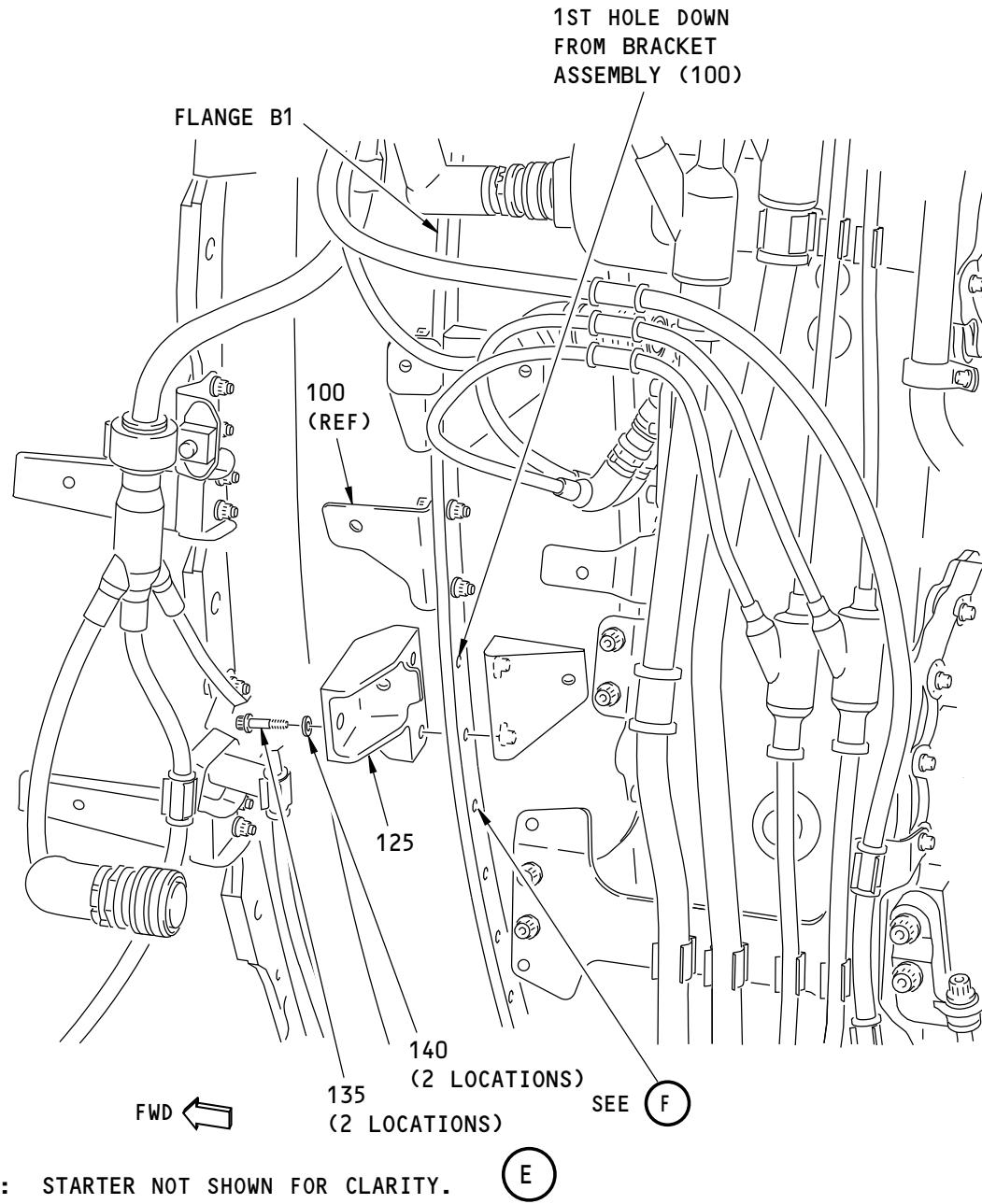
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 4)</b><br>ATTACH BRACKET ASSY (100) ON 1ST AND 2ND HOLE DOWN FROM BRACKET ASSY (75) ON FLANGE B1.<br>USE BOLTS (105) AND WASHERS (110). <ul style="list-style-type: none"> <li>. BRKT ASSY</li> <li>. BOLT (AFT SIDE)</li> <li>. WASHER (UNDER BOLT HEAD)</li> </ul> TIGHTEN BOLTS (105) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). |                                  |             |    |     |
| 100      | 332A2910-112 |   | FWD                              | FWD         |    | 1   |
| 105      | BACB30ZF4-10 |   |                                  |             |    | 2   |
| 110      | BACW10P393CB |   |                                  |             |    | 2   |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 9

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F38222 S00041153691\_V2

Bracket Installation - Lower Left Side Fan Case  
Figure 5-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 5-1

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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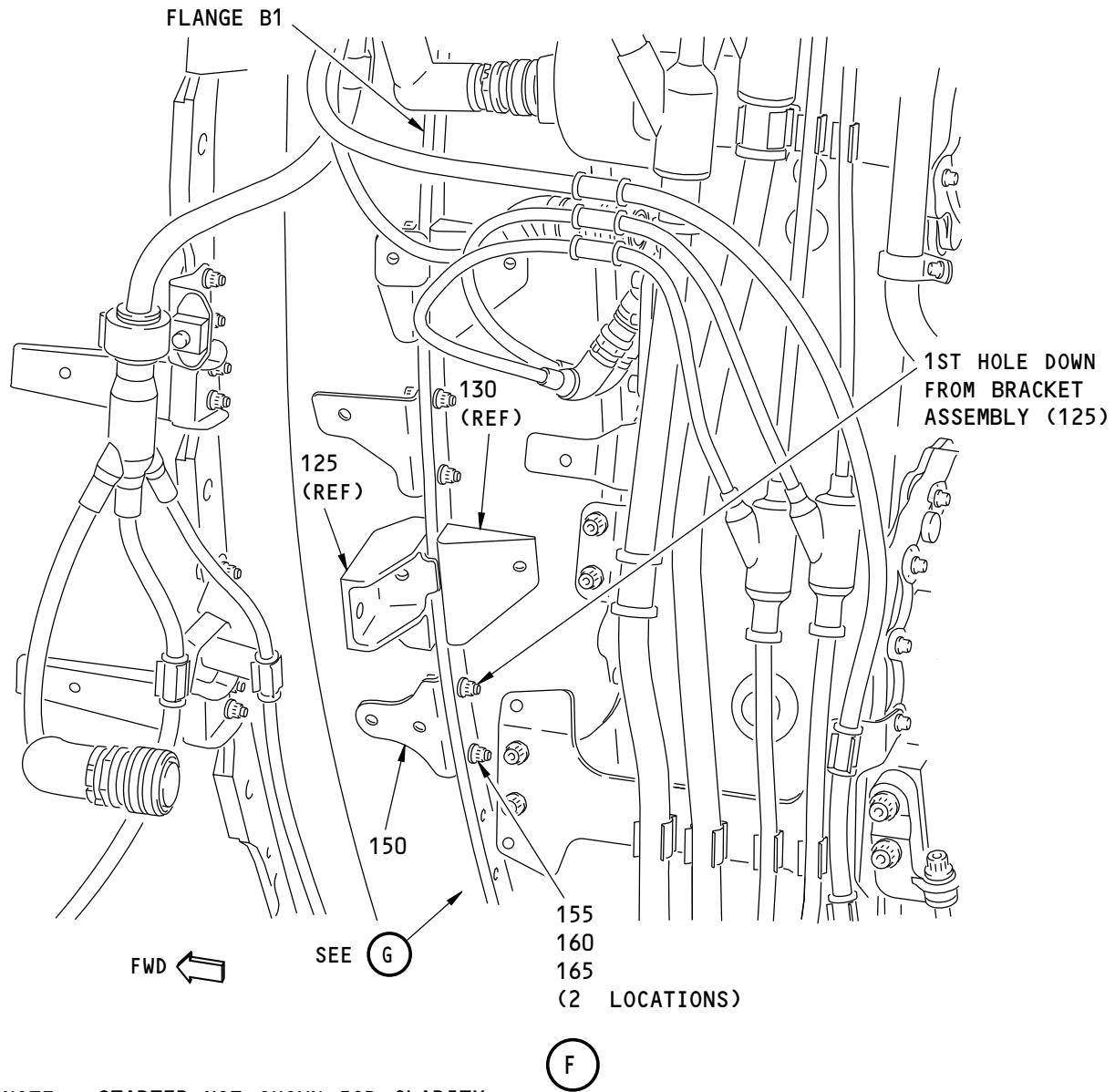
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 5)</b><br><u>NOTE:</u> DUE TO LIMITED ACCESS, IT IS RECOMMENDED THAT INTEGRATED DRIVE GENERATOR INSTALLATION/FIGURE 22-1 ITEM NO. (15) LANYARD ASSY BE LOOSELY ATTACHED TO BRACKET (125) PRIOR TO BRACKET INSTALLATION.<br>ATTACH BRACKET (125) AND BRACKET ASSY (130) ON 1ST AND 2ND HOLES DOWN FROM BRACKET ASSY (100) ON FLANGE B1.<br>USE BOLTS (135) AND WASHERS (140). |                                  |             |     |     |
| 125      | 332A2931-3   | . BRACKET  | FWD                              | FWD         | 1   |     |
| 130      | 332A2920-92  | . BRACKET ASSY   | AFT                              | AFT         | 1   |     |
| 135      | BACB30LE4K6  | . BOLT (FWD SIDE)  |                                  |             | 2   |     |
| 140      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)   |                                  |             | 2   |     |
| 140      | BACW10BP4CD  | . WASHER (CSK) (OPTIONAL TO BACW10BP4ACU)<br><br>TIGHTEN BOLTS (135) TO 90-110 POUND-INCHES (10.2-12.4 NEWTON METERS).   |                                  |             | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 11

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

NOTE: STARTER NOT SHOWN FOR CLARITY.

F38224 S00041153692\_V2

**Bracket Installation - Lower Left Side Fan Case**  
**Figure 5-1 (Sheet 6)**

**71-00-02**

**P/P BUILDUP FIGURE 5-1**

Page 12

Jun 15/2016

D633A106-AKS

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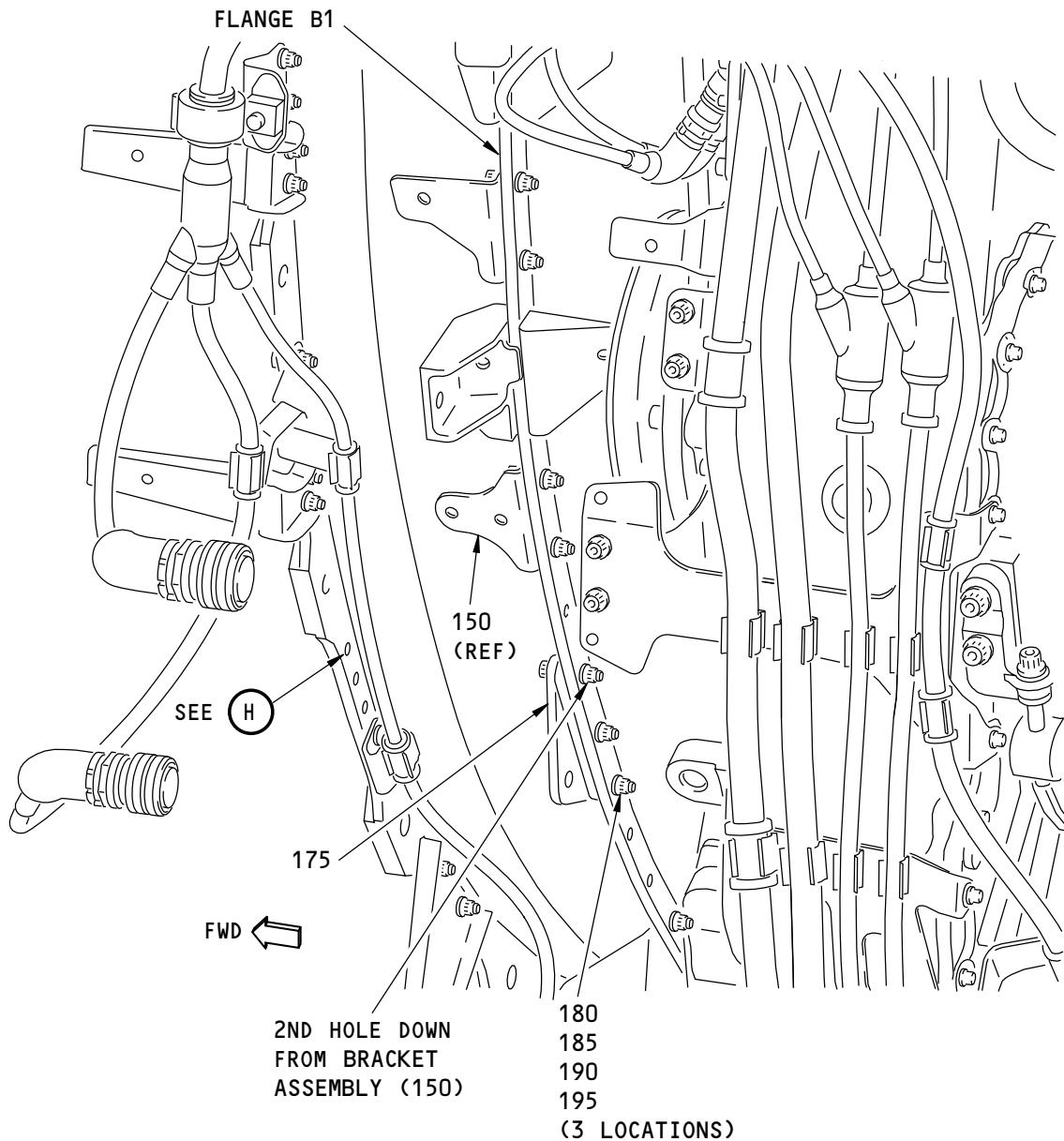
| ITEM NO. | PART NUMBER | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY              |
|----------|-------------|--|----------------------------------|-------------|----|------------------|
|          |             |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |                  |
| 5-1      |             | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 6)</b><br>ATTACH BRACKET ASSY (150) ON 1ST AND 2ND HOLE DOWN FROM BRACKET ASSY (125) ON FLANGE B1.<br>USE BOLTS (155), WASHERS (160) AND NUTS (165).<br><br>150 332A2910-74 . BRACKET ASSY<br>155 BACB30ZF4-11 . BOLT (FWD SIDE)<br>160 BACW10P393CB . WASHER (UNDER NUT)<br>165 AS3485-10 . NUT<br><br>TIGHTEN BOLTS (155) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). | FWD                              | FWD         |    |                  |
|          |             |  |                                  |             |    | 1<br>2<br>2<br>2 |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 13

Jun 15/2016

D633A106-AKS



NOTE: STARTER NOT SHOWN FOR CLARITY.

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**Bracket Installation - Lower Left Side Fan Case**  
**Figure 5-1 (Sheet 7)**

**71-00-02**

**P/P BUILDUP FIGURE 5-1**

Page 14

Jun 15/2016

D633A106-AKS

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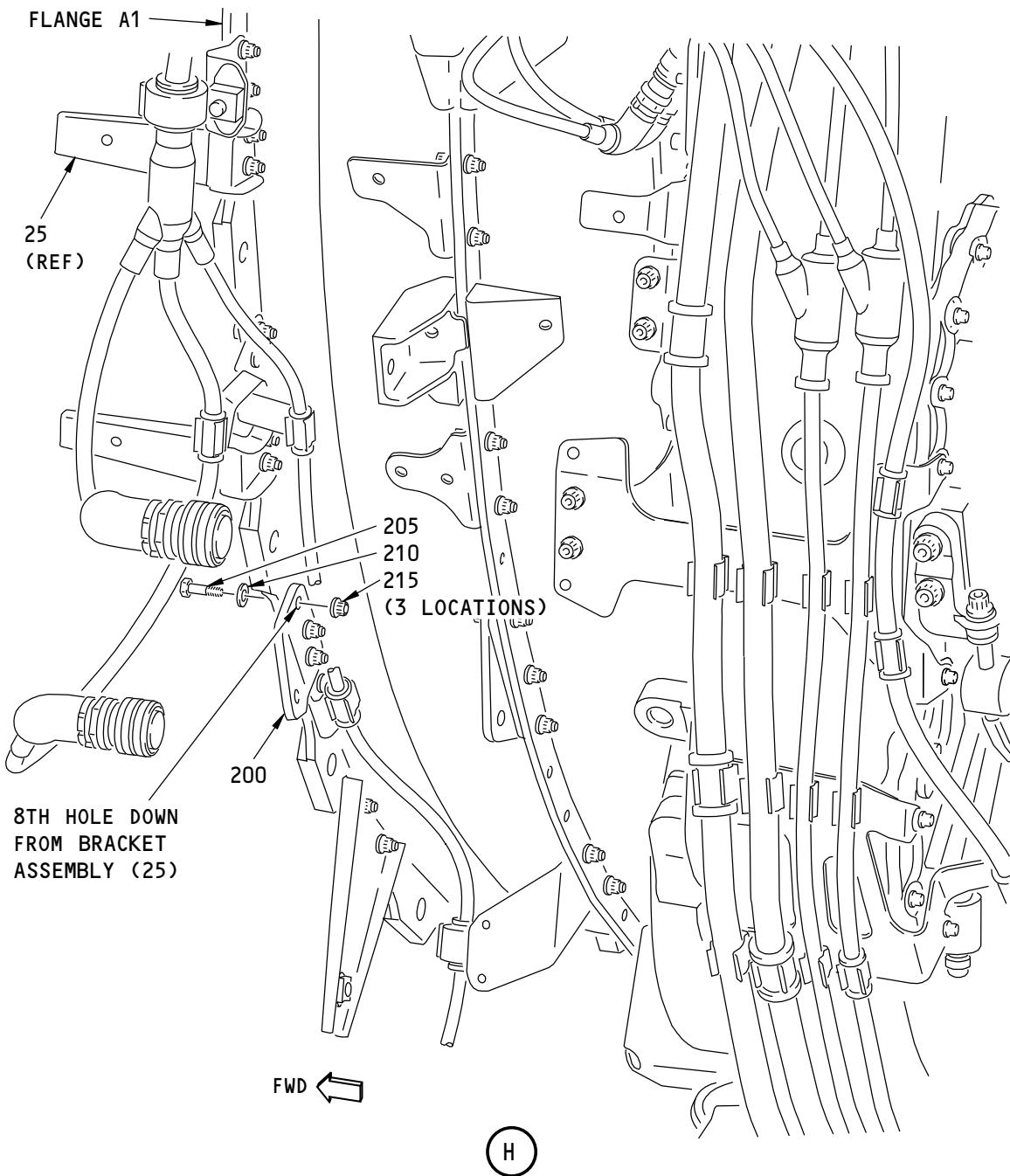
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|--|----------------------------------|-------------|----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 7)</b><br><b>NOTE:</b> DUE TO LIMITED ACCESS, IT IS RECOMMENDED THAT INTEGRATED DRIVE GENERATOR INSTALLATION/Figure 22-1 ITEM NO. (5) LANYARD ASSY BE LOOSELY ATTACHED TO BRACKET ASSY (175) PRIOR TO BRACKET ASSY INSTALLATION.<br>ATTACH BRACKET ASSY (175) TO 2ND, 3RD AND 4TH HOLES DOWN FROM BRACKET ASSY (150) ON FLANGE B1.<br>USE BOLTS (180), WASHERS (185) AND (190) AND NUTS (195). |                                  |             |    |     |
| 175      | 332A2911-2   | . BRACKET ASSY   | FWD                              |             |    | 1   |
| 180      | BACB30LE4K12 | . BOLT (FWD SIDE)  |                                  |             |    | 3   |
| 185      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)   |                                  |             |    | 3   |
| 190      | BACW10P393CB | . WASHER (UNDER NUT)   |                                  |             |    | 3   |
| 195      | AS3485-10    | . NUT  |                                  |             |    | 3   |
|          |              | TIGHTEN BOLTS (180) TO 72-88 POUND-INCHES (8.1-9.9 NEWTON METERS).   |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 15

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

NOTE: STARTER NOT SHOWN FOR CLARITY.

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Bracket Installation - Lower Left Side Fan Case  
Figure 5-1 (Sheet 8)

**71-00-02**  
P/P BUILDUP FIGURE 5-1  
Page 16  
Jun 15/2016

D633A106-AKS

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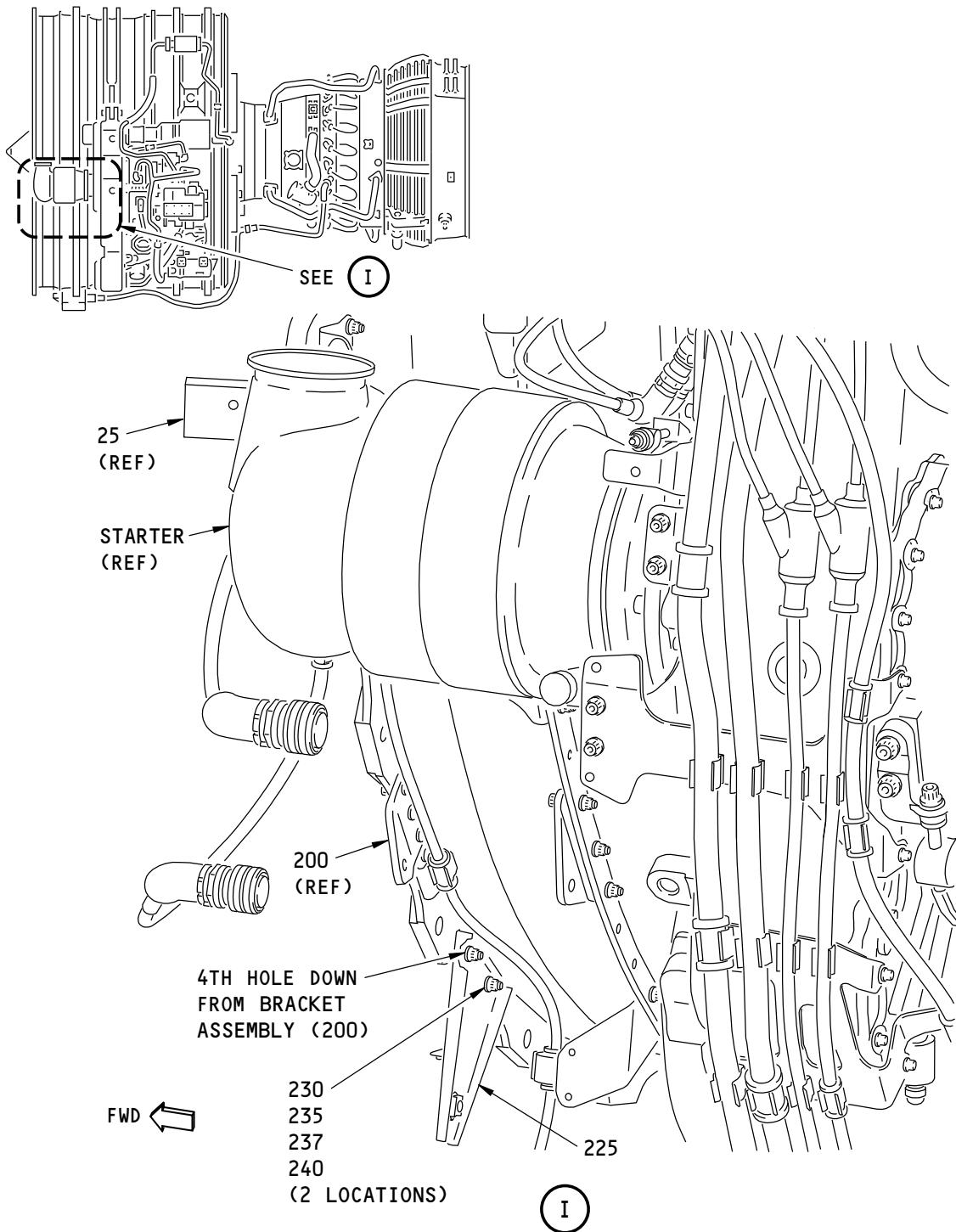
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 8)</b><br><b>NOTE:</b> DUE TO LIMITED ACCESS, IT IS RECOMMENDED THAT INTEGRATED DRIVE GENERATOR INSTALLATION/FIGURE 22-1 ITEM NO. (10) LANYARD ASSY BE LOOSELY ATTACHED TO BRACKET (200) PRIOR TO BRACKET INSTALLATION.<br>ATTACH BRACKET DETAIL (200) TO 8TH, 9TH AND 10TH HOLES DOWN FROM BRACKET ASSY (25) ON FLANGE A1.<br>USE BOLTS (205), WASHERS (210) AND NUTS (215).<br><br>200 332A2911-5 . BRACKET DETAIL<br>205 BACB30NM4K7 . BOLT (FWD SIDE)<br>210 BACW10BP4ACU . WASHER (CSK) (UNDER BOLT HEAD)<br>215 AS3485-10 . NUT<br><br>TIGHTEN BOLTS (205) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS). |                                  |             |    |     |
| 200      | 332A2911-5   | . BRACKET DETAIL  | AFT                              | AFT         |    | 1   |
| 205      | BACB30NM4K7  | . BOLT (FWD SIDE)   |                                  |             |    | 3   |
| 210      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)  |                                  |             |    | 3   |
| 215      | AS3485-10    | . NUT   |                                  |             |    | 3   |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 17

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Lower Left Side Fan Case**  
**Figure 5-1 (Sheet 9)**

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 18

Jun 15/2016

D633A106-AKS

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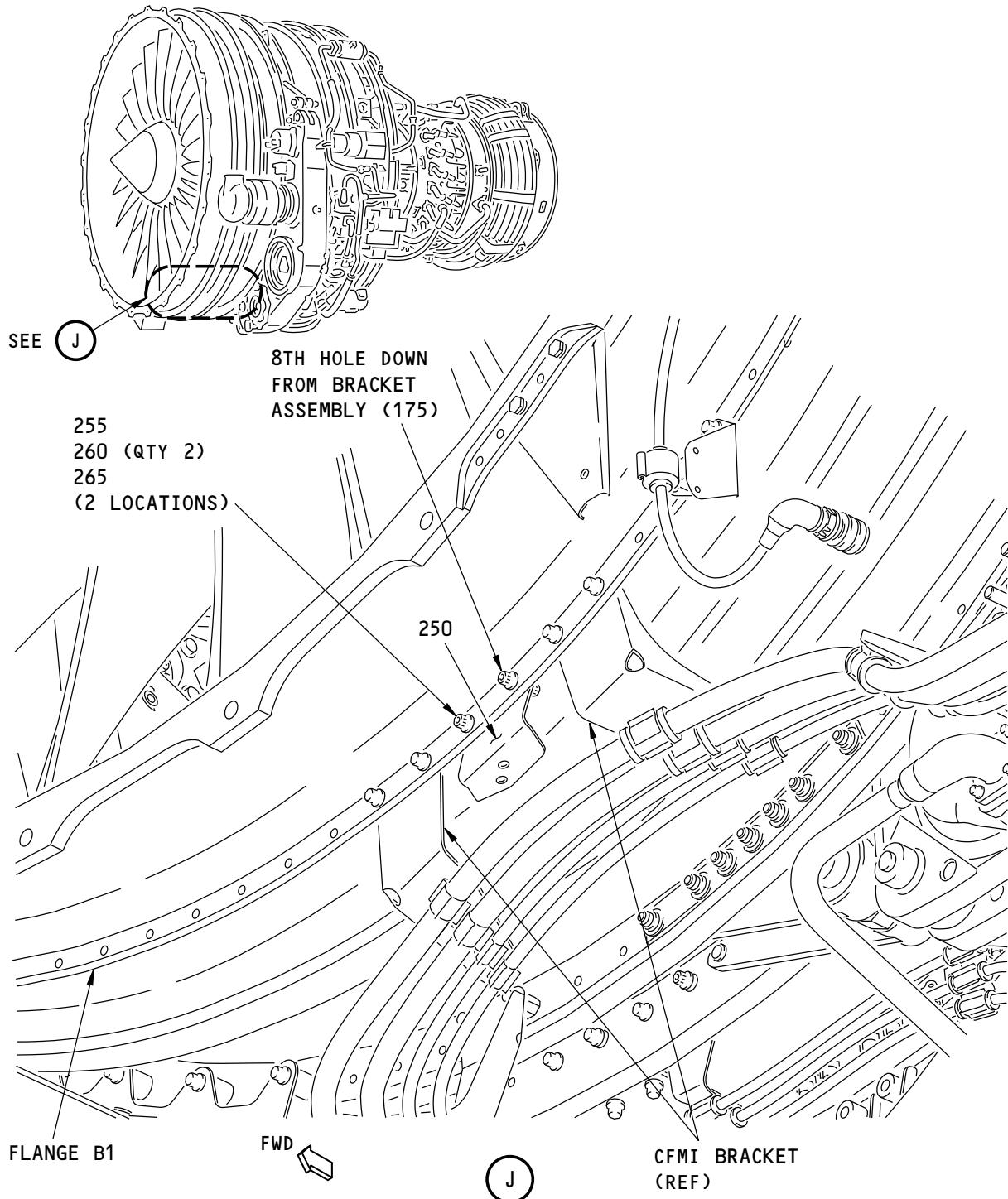
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 9)</b><br>ATTACH BRACKET ASSY (225) TO 4TH AND 6TH HOLES DOWN FROM BRACKET DETAIL (200) ON FLANGE A1.<br>USE BOLTS (230), WASHERS (235, 237) AND NUTS (240). |                                  |             |     |     |
| 225      | 332A2910-165 | . BRACKET ASSY   | AFT                              | AFT         |     | 1   |
| 225      | 332A2910-101 | . BRACKET ASSY (REPLACED BY 332A2910-165)  | AFT                              | AFT         | LTD | -   |
| 230      | BACB30NM4K7  | . BOLT (FWD SIDE)  |                                  |             |     | 2   |
| 235      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)   |                                  |             |     | 2   |
| 237      | BACW10P393CB | . WASHER (UNDER NUT)   |                                  |             |     | 2   |
| 240      | AS3485-10    | . NUT  |                                  |             |     | 2   |
|          |              | TIGHTEN BOLTS (230) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS).   |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 19

Jun 15/2016

D633A106-AKS



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Bracket Installation - Lower Left Side Fan Case  
Figure 5-1 (Sheet 10)

71-00-02

P/P BUILDUP FIGURE 5-1

Page 20

Jun 15/2016

D633A106-AKS

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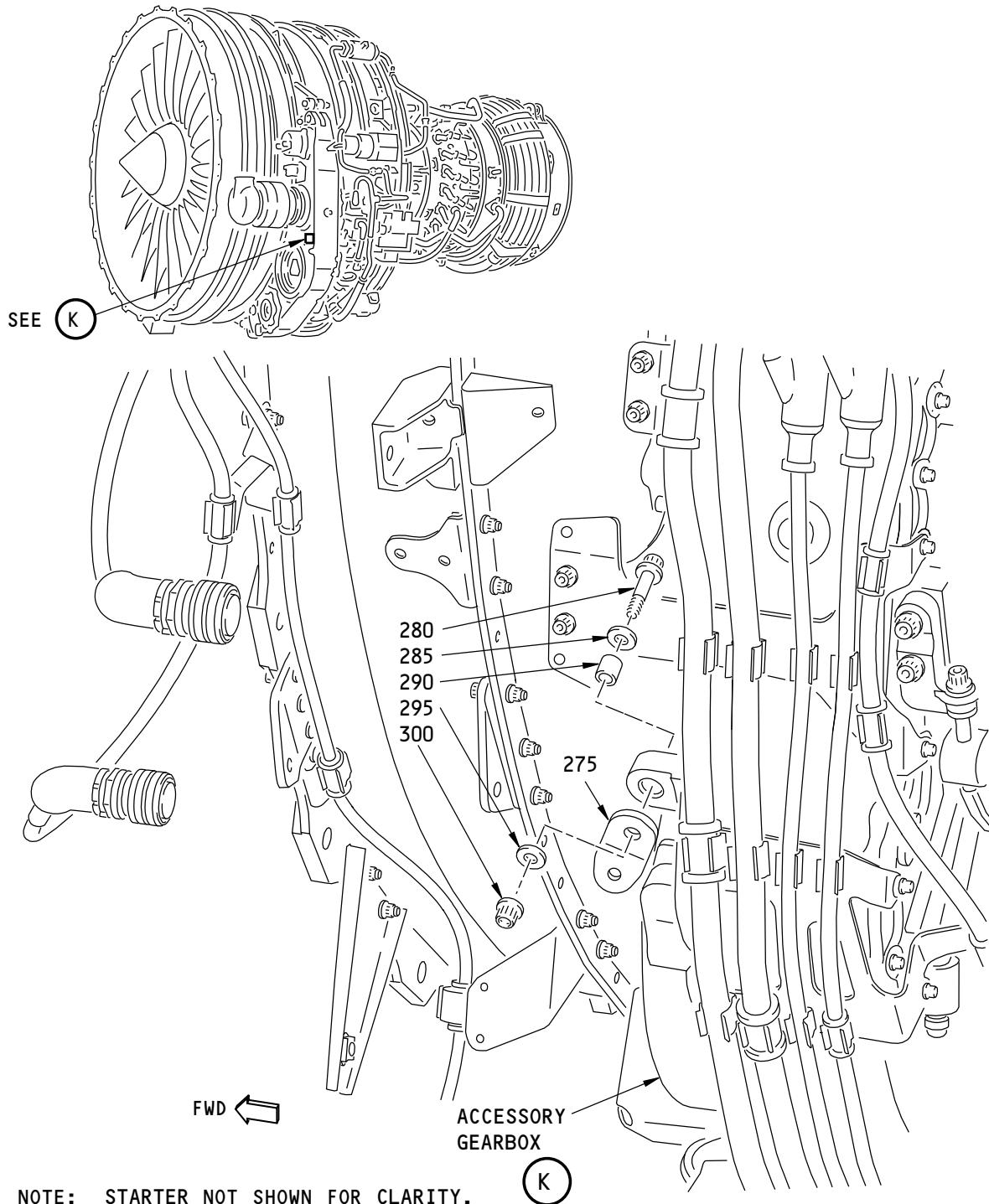
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|--|----------------------------------|-------------|----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 10)</b><br>ATTACH BRACKET (250) TO 8TH AND 9TH HOLES DOWN FROM BRACKET ASSY (175) ON FLANGE B1 (BETWEEN TWO CFMI BRACKETS).<br>USE BOLTS (255), WASHERS (260), AND NUTS (265). |                                  |             |    |     |
| 250      | 332A2920-119 | . BRACKET ASSY   | AFT                              | AFT         |    | 1   |
| 255      | BACB30ZF4-12 | . BOLT (FWD SIDE)  |                                  |             |    | 2   |
| 260      | BACW10P393CB | . WASHER (UNDER BOLT HEAD AND UNDER NUT)   |                                  |             |    | 4   |
| 265      | AS3485-10    | . NUT<br><br>TIGHTEN BOLTS (255) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |                                  |             |    | 2   |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 21

Jun 15/2016

D633A106-AKS



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Bracket Installation - Lower Left Side Fan Case  
Figure 5-1 (Sheet 11)

**71-00-02**  
P/P BUILDUP FIGURE 5-1

Page 22

Jun 15/2016

D633A106-AKS

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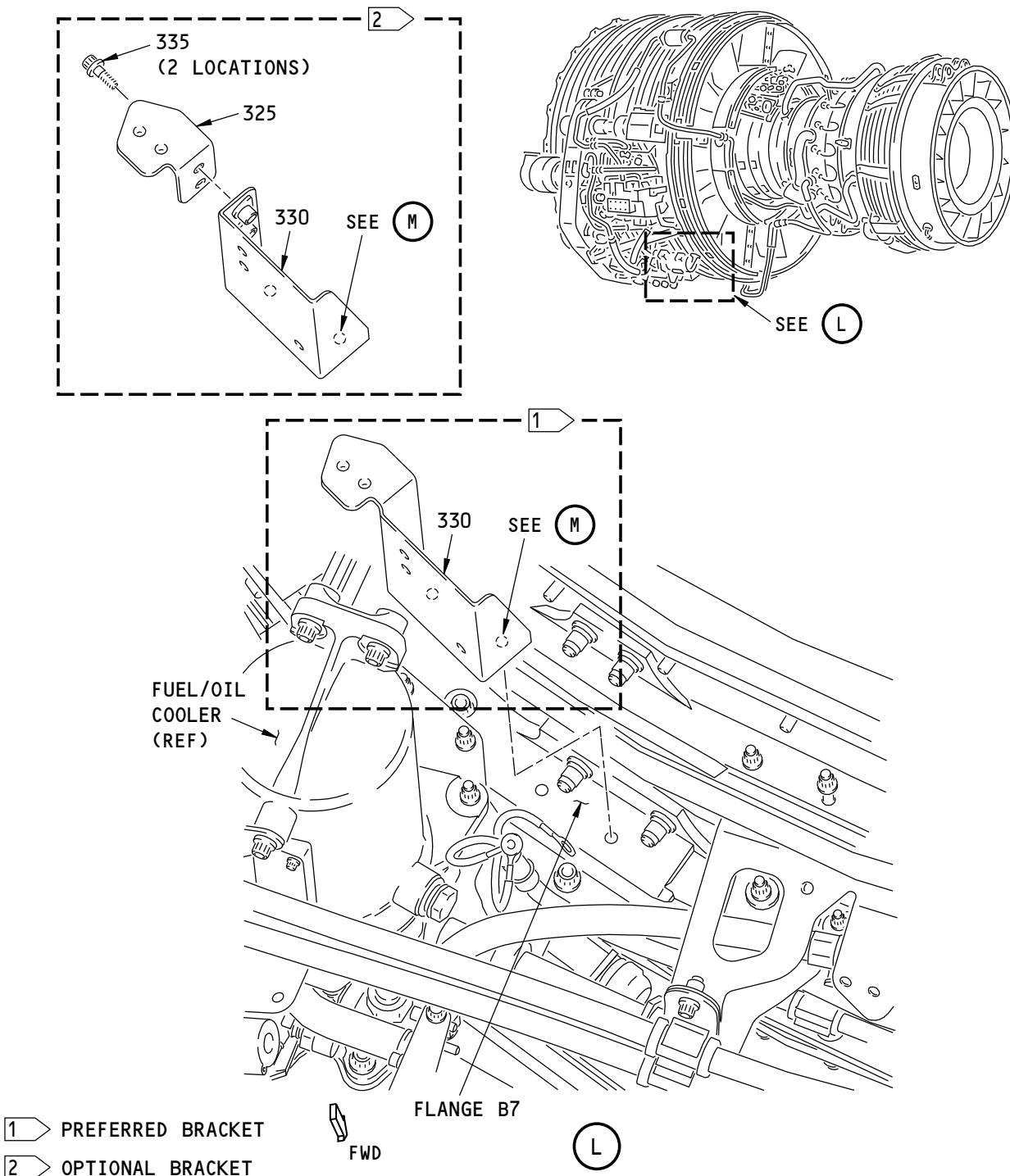
| ITEM NO. | PART NUMBER     | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|-----------------|--|----------------------------------|-------------|----|-----|
|          |                 |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 5-1      |                 | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 11)</b><br>ATTACH BRACKET DETAIL (275) TO ACCESSORY GEARBOX NEAR IDG PAD. USE BOLT (280), WASHER (285), BUSHING (290) AND NUT (295). |                                  |             |    |     |
| 275      | 332A2911-1      | . BRACKET DETAIL   |                                  |             |    | 1   |
| 280      | BACB30LE6K14    | . BOLT   |                                  |             |    | 1   |
| 285      | BACW10BP6ACU    | . WASHER (CSK) (UNDER BOLT HEAD)   |                                  |             |    | 1   |
| 290      | BACB28BA0608060 | . BUSHING  |                                  |             |    | 1   |
| 295      | NAS1149C0632R   | . WASHER (UNDER NUT)   |                                  |             |    | 1   |
| 300      | AS3485-12       | . NUT  |                                  |             |    | 1   |
|          |                 | TIGHTEN BOLT (280) TO 160-240 POUND-INCHES (18.0-27.2 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 23

Jun 15/2016

D633A106-AKS



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Bracket Installation - Lower Left Side Fan Case  
Figure 5-1 (Sheet 12)

71-00-02

P/P BUILDUP FIGURE 5-1

Page 24

Jun 15/2016

D633A106-AKS

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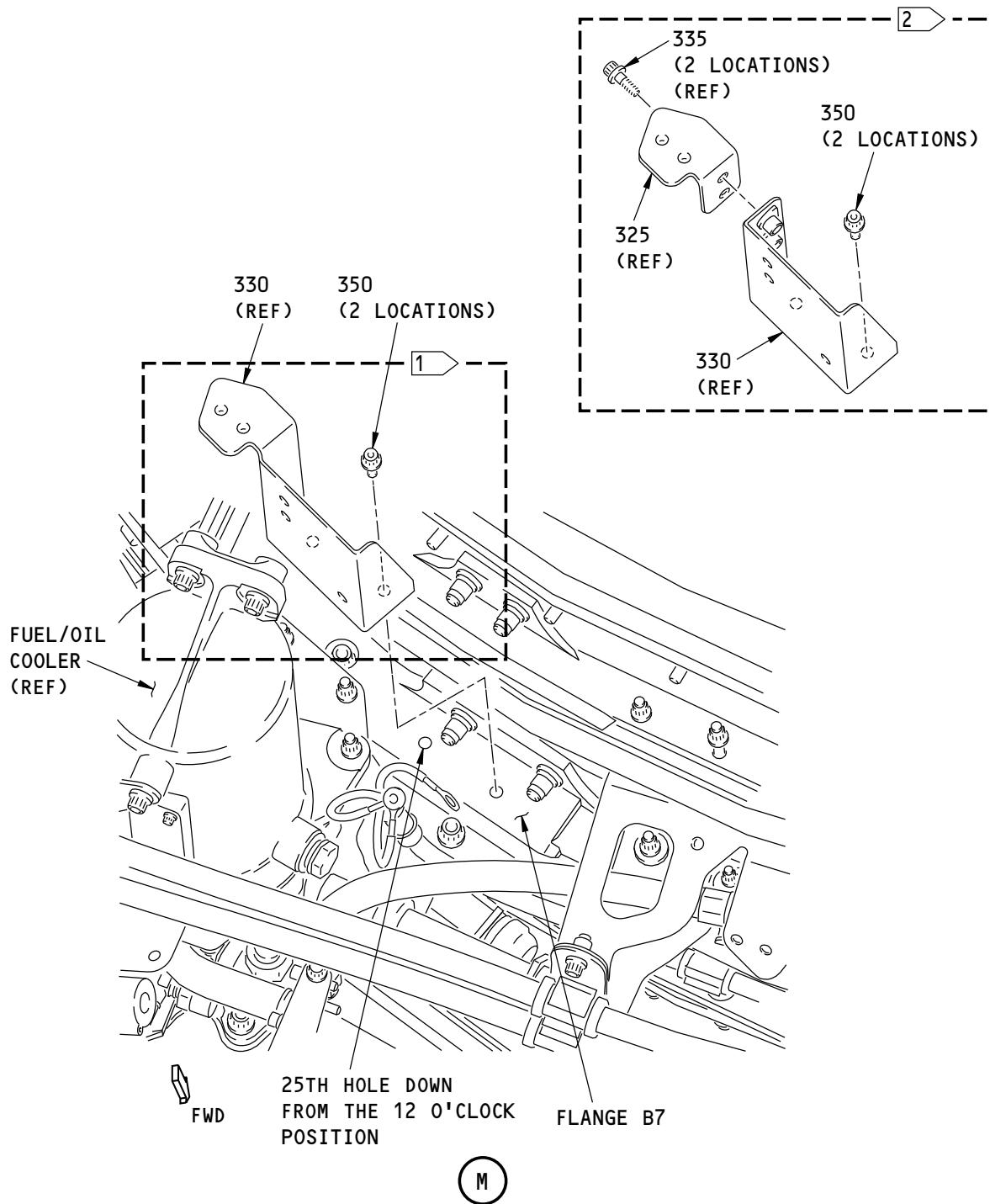
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 5-1      |              | <p><b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 12)</b></p> <p><b>PREFERRED BRACKET CONFIGURATION:</b></p> <p>ATTACH BRACKET ASSY (330) TO FLANGE ON SHEET 13.</p> <p>. BRACKET ASSY (1 PIECE BRACKET)</p> <p><b>OPTIONAL BRACKET CONFIGURATION:</b></p> <p>ATTACH BRACKET ASSY (325) TO BRACKET ASSY (330) USING BOLTS (335).</p> <p>. BRACKET ASSY</p> <p>. BRACKET ASSY</p> <p>. BOLT (2 REQD)</p> <p>TIGHTEN BOLTS (335) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).</p> | AFT                              | AFT         |     | 1   |
| 330      | 332A2920-235 |  |                                  |             |     |     |
| 325      | 332A2910-67  |  | OUTBD                            | OUTBD       | OPT | -   |
| 330      | 332A2930-54  |  | AFT                              | AFT         | OPT | -   |
| 335      | BACB30ZF4-07 |  |                                  |             | OPT | -   |

71-00-02

## P/P BUILDUP FIGURE 5-1

Page 25

Page 23  
Jun 15/2016

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**Bracket Installation - Lower Left Side Fan Case**  
**Figure 5-1 (Sheet 13)**

**71-00-02**  
**P/P BUILDUP FIGURE 5-1**  
 Page 26  
 Jun 15/2016

D633A106-AKS

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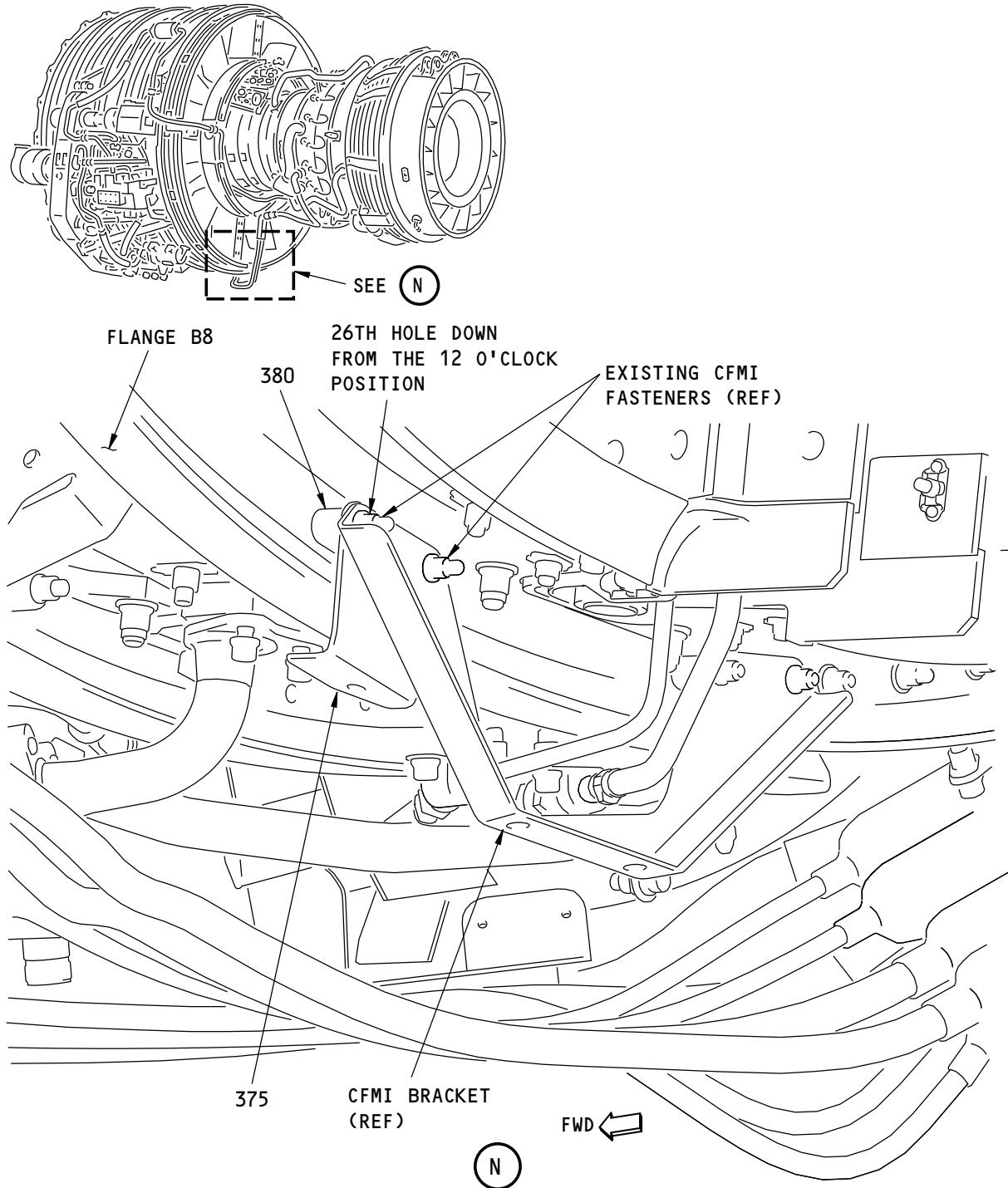
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 5-1      |              | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 13)</b><br>CLEAN MATING SURFACES OF BRACKET (330) AND 25TH AND 26TH HOLES DOWN FROM 12 O'CLOCK ON FLANGE B7 WITH alcohol, B00130 (C1). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS.<br>. ALCOHOL<br>ATTACH BRACKET ASSY (330) TO FLANGE B7 WITH BOLTS (350).<br>. BOLT<br>TIGHTEN BOLTS (350) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). |                                  |             |     |     |
| C1       | B00130       |   |                                  |             | CON | AR  |
| 350      | BACB30ZF4-08 |   |                                  |             |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 27

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Lower Left Side Fan Case**  
**Figure 5-1 (Sheet 14)**

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 28

Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER   | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|---------------|--|----------------------------------|-------------|-----|-----|
|          |               |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 5-1      |               | <b>BRACKET INSTALLATION - LOWER LEFT SIDE FAN CASE (FIGURE 5-1, SHEET 14)</b><br>REMOVE EXISTING CFMI FASTENERS AND SPACER FROM 26TH AND 27TH HOLES DOWN FROM 12 O'CLOCK ON FLANGE B8.<br>APPLY THIN COATING OF ANTI-SEIZE compound, D50004 (C2) TO EXISTING CFMI FASTENERS.<br>ATTACH BRACKET ASSY (375) AND SPACERS (380) OR BRACKET DETAIL (380) BETWEEN CFMI BRACKET AND FLANGE B8 USING EXISTING FASTENERS.<br>. BRACKET ASSY<br>. BRACKET ASSY (OPTIONAL TO 332A2910-141)<br>. SPACER* <sup>[2]</sup><br>. BRACKET DETAIL (1 REQD)* <sup>[2]</sup><br>. COMPOUND<br>TIGHTEN EXISTING CFMI FASTENERS TO 98-110 POUND-INCHES (11.1-12.4 NEWTON METERS).<br>* <sup>[2]</sup> QTY (1) 332A2930-60 BRACKET DETAIL OPTIONAL TO QTY (2) BACS18K25-39W SPACER. |                                  |             |     |     |
| 375      | 332A2910-141  | . BRACKET ASSY   | AFT                              | FWD         | 1   |     |
| 375      | 332A2910-104  | . BRACKET ASSY (OPTIONAL TO 332A2910-141)  | AFT                              | FWD         | OPT | -   |
| 380      | BACS18K25-39W | . SPACER* <sup>[2]</sup>   | AFT                              |             | 2   |     |
| 380      | 332A2930-60   | . BRACKET DETAIL (1 REQD)* <sup>[2]</sup>  | AFT                              |             | OPT | -   |
| C2       | D50004        | . COMPOUND   |                                  | CON         | AR  |     |

**71-00-02****P/P BUILDUP FIGURE 5-1**

Page 29

Jun 15/2016

D633A106-AKS

**FIGURE 6-1**

**BRACKET INSTALLATION - RIGHT SIDE FAN CASE**

**REF QEC TASK NO.: 6**

**REF DWG: 332A2900**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

**P/P BUILDUP FIGURE 6-1**

**Page 1**

**Jun 15/2016**

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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 1)

**71-00-02**

**P/P BUILDUP FIGURE 6-1**

Page 2

Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 6-1      |             | BRACKET INSTALLATION - RIGHT SIDE FAN CASE<br>(FIGURE 6-1, SHEET 1)<br>THIS SHEET NOT USED |    |     |

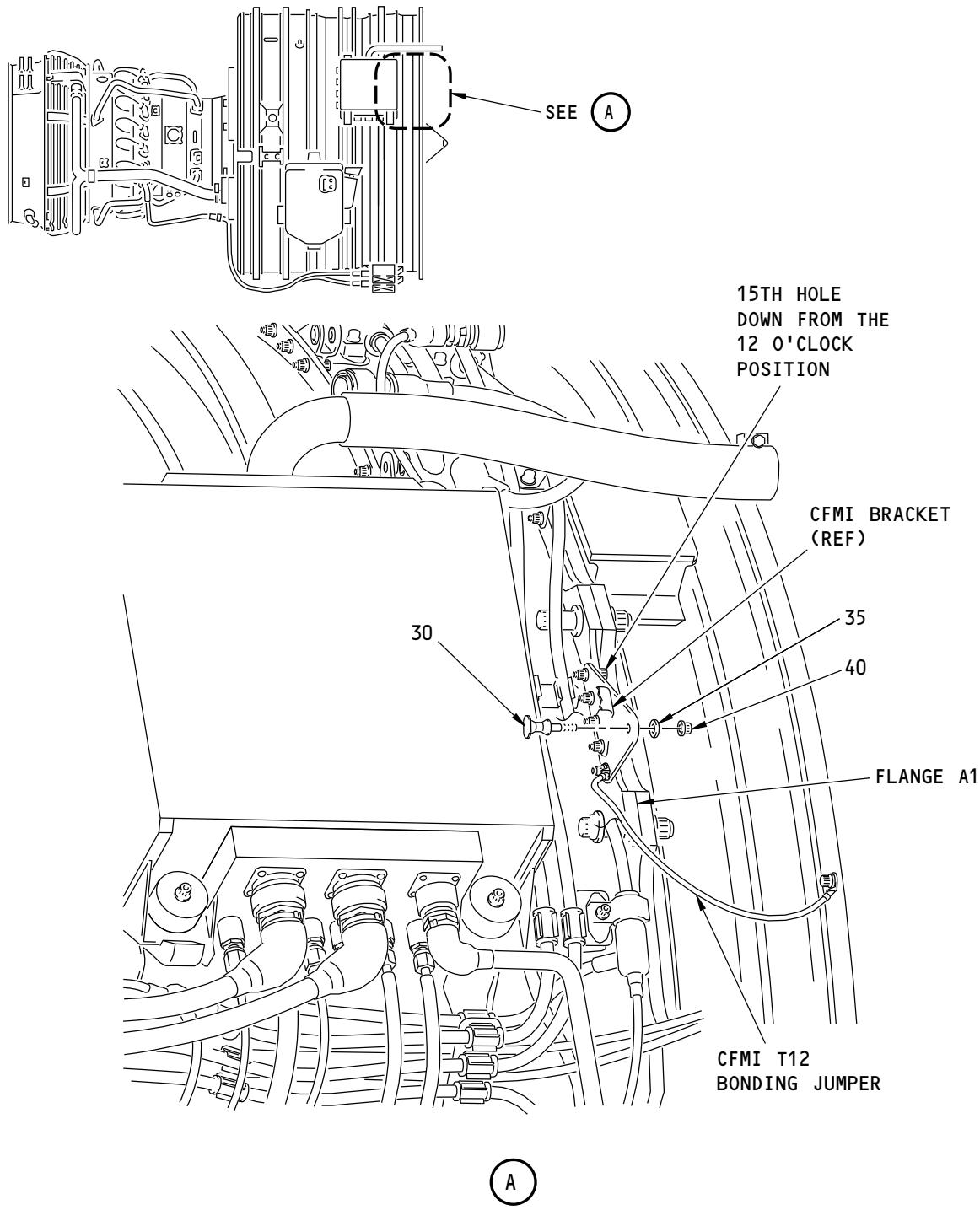
**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 3

Jun 15/2016

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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 6-1

Page 4

Jun 15/2016

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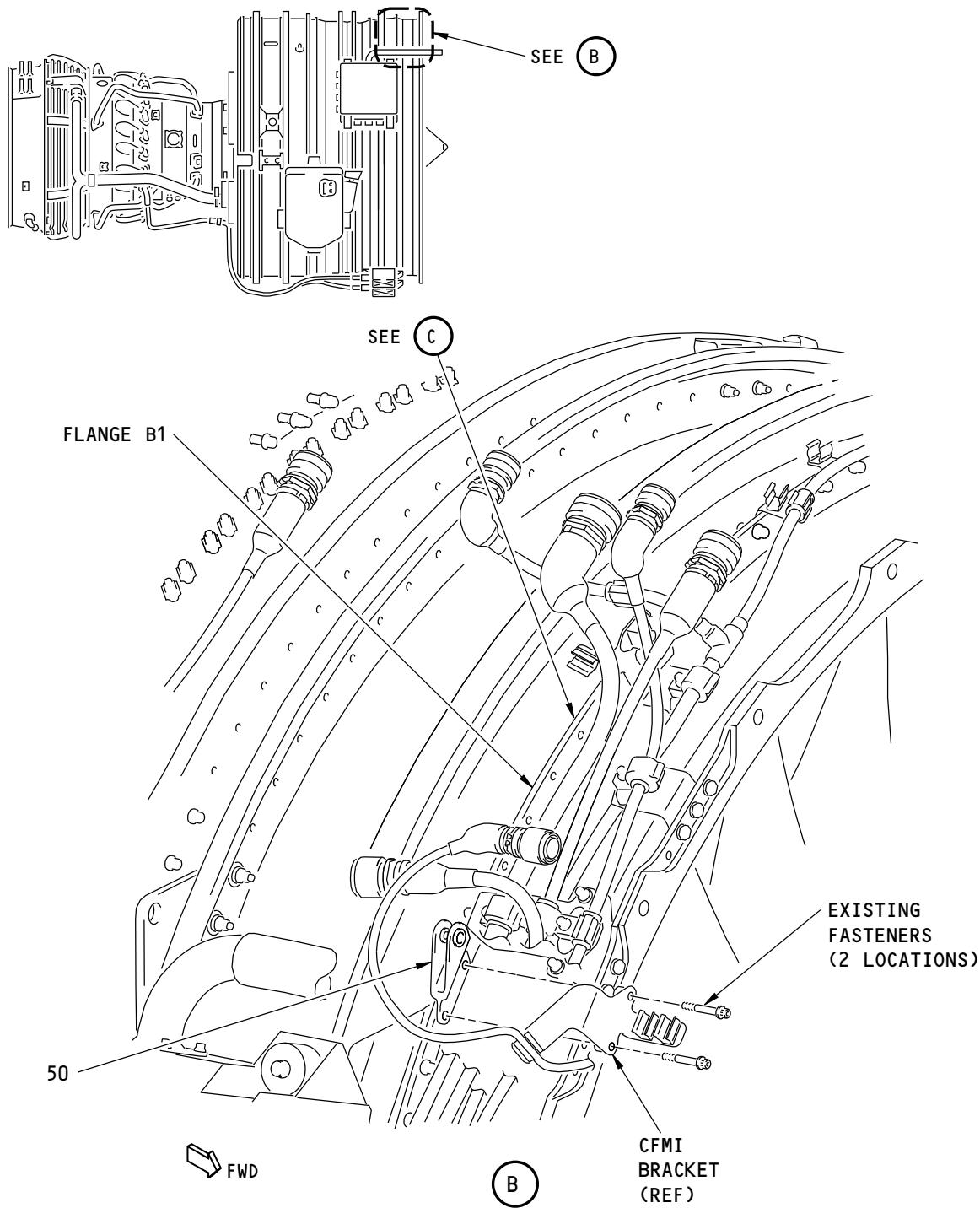
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|---------------|---|----------------------------------|-------------|----|-----|
|          |               |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 6-1      |               | <b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 2)</b><br>ATTACH RECEIVER (30) TO HOLE ON CFMI BRACKET LOCATED ON 15TH THRU 19TH HOLES DOWN FROM 12 O'CLOCK POSITION ON FLANGE A1. USE WASHER (35) AND NUT (40). |                                  |             |    |     |
| 30       | 370D1005-5    | . RECEIVER  | AFT                              |             |    | 1   |
| 35       | NAS1149C0432R | . WASHER (UNDER NUT)  |                                  |             |    | 1   |
| 40       | BACN11Z4CK    | . NUT   |                                  |             |    | 1   |
|          |               | TIGHTEN NUT (40) TO 65-100 POUND-INCHES (7.3-11.3 NEWTON METERS).   |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 5

Jun 15/2016

D633A106-AKS

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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 3)71-00-02  
P/P BUILDUP FIGURE 6-1

Page 6

Jun 15/2016

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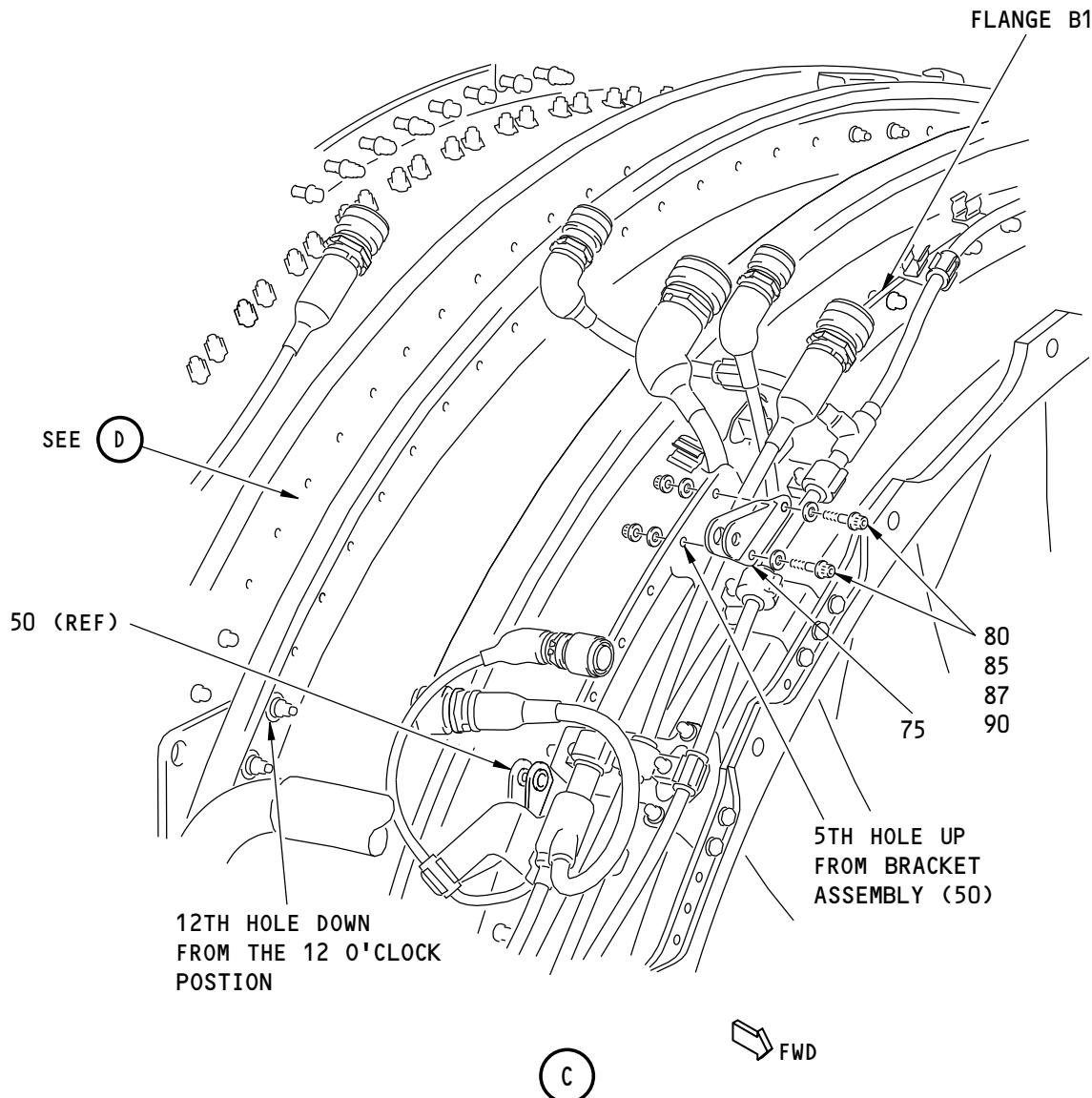
| ITEM NO. | PART NUMBER | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|-------------|--|----------------------------------|-------------|----|-----|
|          |             |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 6-1      |             | <b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 3)</b><br>REMOVE EXISTING CFMI FASTENERS AND CFMI BRACKET FROM FLANGE B1. INSTALL BRACKET ASSY (50) BETWEEN FLANGE B1 AND CFMI BRACKET. REINSTALL CFMI BRACKET USING EXISTING CFMI FASTENERS.<br>. BRACKET ASSY<br>TIGHTEN EXISTING CFMI FASTENERS TO 100-112 POUND-INCHES (11.3-12.7 NEWTON METERS). | FWD                              |             |    | 1   |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 7

Jun 15/2016

D633A106-AKS

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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 4)71-00-02  
P/P BUILDUP FIGURE 6-1

Page 8

Jun 15/2016

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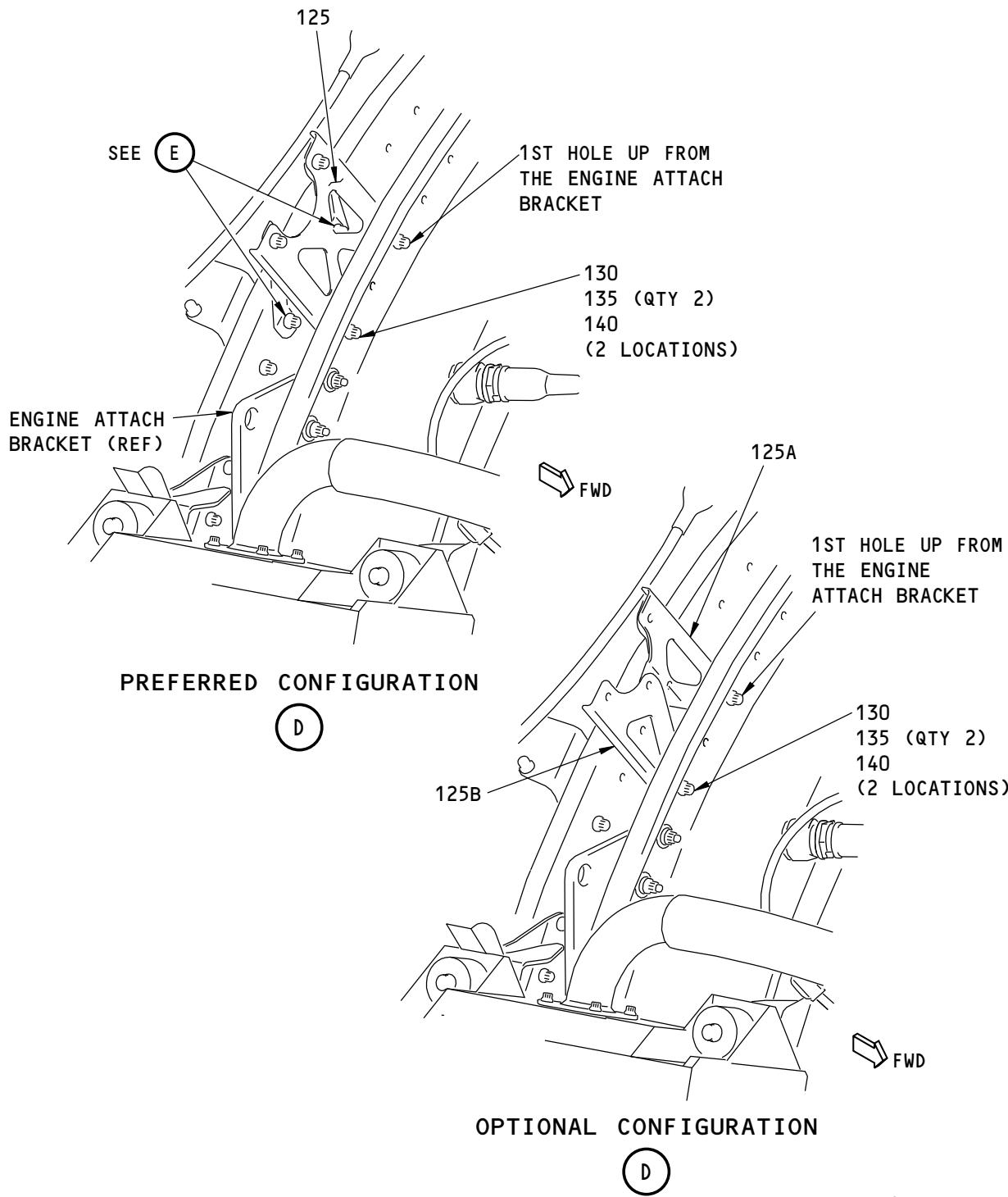
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|---------------|--|----------------------------------|-------------|----|-----|
|          |               |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 6-1      |               | <b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 4)</b><br>ATTACH BRACKET ASSY (75) TO 5TH AND 6TH HOLES UP FROM BRACKET ASSY (50) ON FLANGE B1. USE BOLTS (80), WASHERS (85, 87) AND NUTS (90). |                                  |             |    |     |
| 75       | 332A2930-1    | . BRACKET ASSY   | FWD                              |             |    | 1   |
| 80       | BACB30ZF4-14  | . BOLT (FWD SIDE)  |                                  |             |    | 2   |
| 85       | NAS1149C0432R | . WASHER (UNDER BOLT HEAD)   |                                  |             |    | 2   |
| 87       | BACW10P393CB  | . WASHER (UNDER NUT)   |                                  |             |    | 2   |
| 90       | AS3485-10     | . NUT  |                                  |             |    | 2   |
|          |               | TIGHTEN BOLTS (80) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 9

Jun 15/2016

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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 5)71-00-02  
P/P BUILDUP FIGURE 6-1

Page 10

Jun 15/2016

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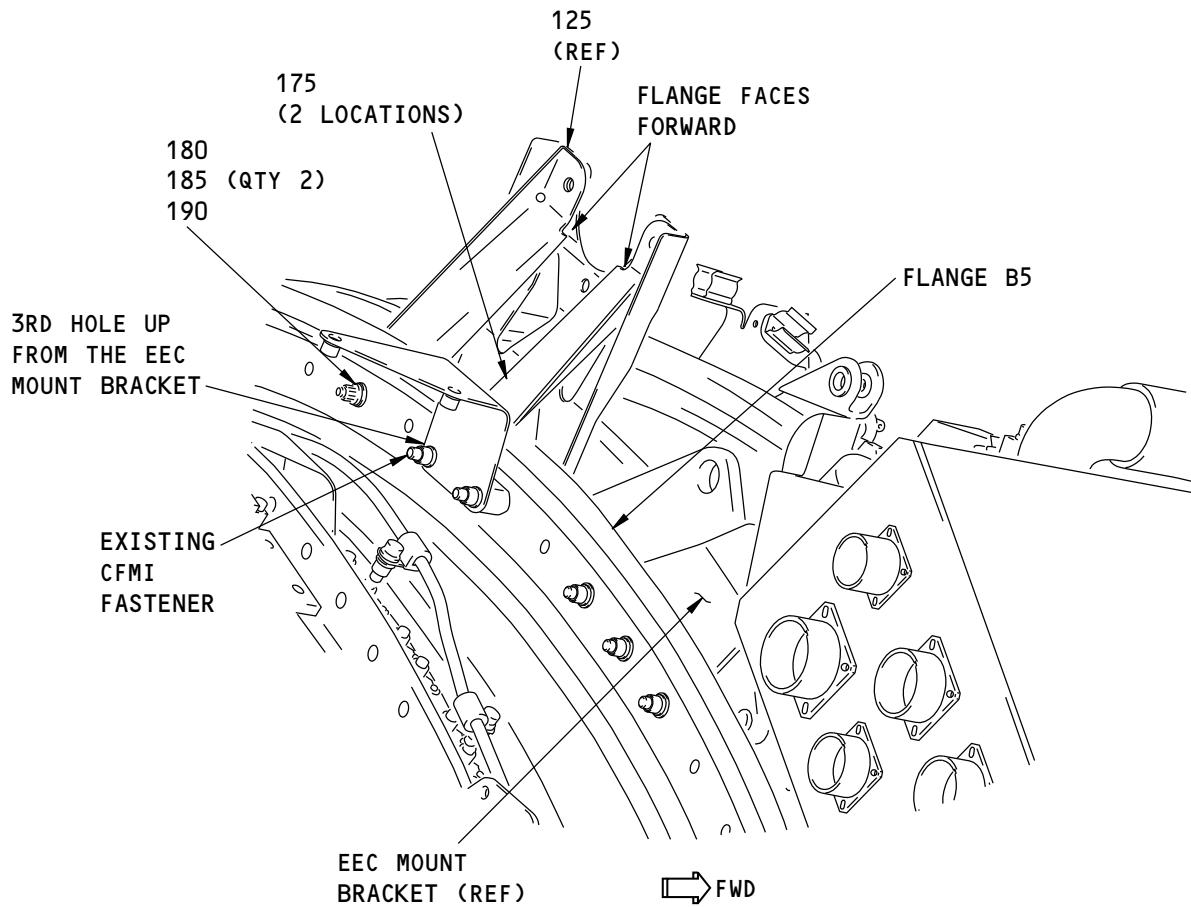
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 6-1      |              | <p><b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 5)</b></p> <p><b>PREFERRED CONFIGURATION:</b></p> <p>ATTACH BRACKET ASSY (125) TO 1ST AND 3RD HOLES UP FROM ENGINE ATTACH BRACKET ON FLANGE B4. USE BOLTS (130), WASHERS (135) AND NUTS (140).</p> <p><b>OPTIONAL CONFIGURATION:</b></p> <p>ATTACH BRACKET (125B) TO 1ST HOLE UP FROM ENGINE ATTACH BRACKET AND ATTACH BRACKET (125A) TO 3RD HOLE UP. USE BOLTS (130), WASHERS (135) AND NUTS (140).</p> <p><b>NOTE:</b> DO NOT INSTALL A FASTENER BETWEEN BRACKETS (125A) AND (125B) AT THIS TIME.</p> |                                  |             |     |     |
| 125      | 332A2910-99  | . BRACKET   | AFT                              |             |     | 1   |
| 125A     | 332A2910-95  | . BRACKET (OPTIONAL)* <sup>[1]</sup>  | AFT                              |             | OPT | -   |
| 125B     | 332A2910-96  | . BRACKET (OPTIONAL)* <sup>[1]</sup>  | AFT                              |             | OPT | -   |
| 130      | BACB30ZF4-14 | . BOLT (FWD SIDE)   |                                  |             |     | 2   |
| 135      | BACW10P393CB | . WASHER (UNDER BOLT HEAD AND UNDER NUT)  |                                  |             |     | 4   |
| 140      | AS3485-10    | . NUT   |                                  |             |     | 2   |
|          |              | TIGHTEN BOLTS (130) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |                                  |             |     |     |
|          |              | * <sup>[1]</sup> [1] BRACKETS (125A) AND (125B) TOGETHER ARE OPTIONAL TO BRACKET (125).   |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 11

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Right Side Fan Case**  
**Figure 6-1 (Sheet 6)**

**71-00-02**  
**P/P BUILDUP FIGURE 6-1**  
 Page 12  
 Jun 15/2016

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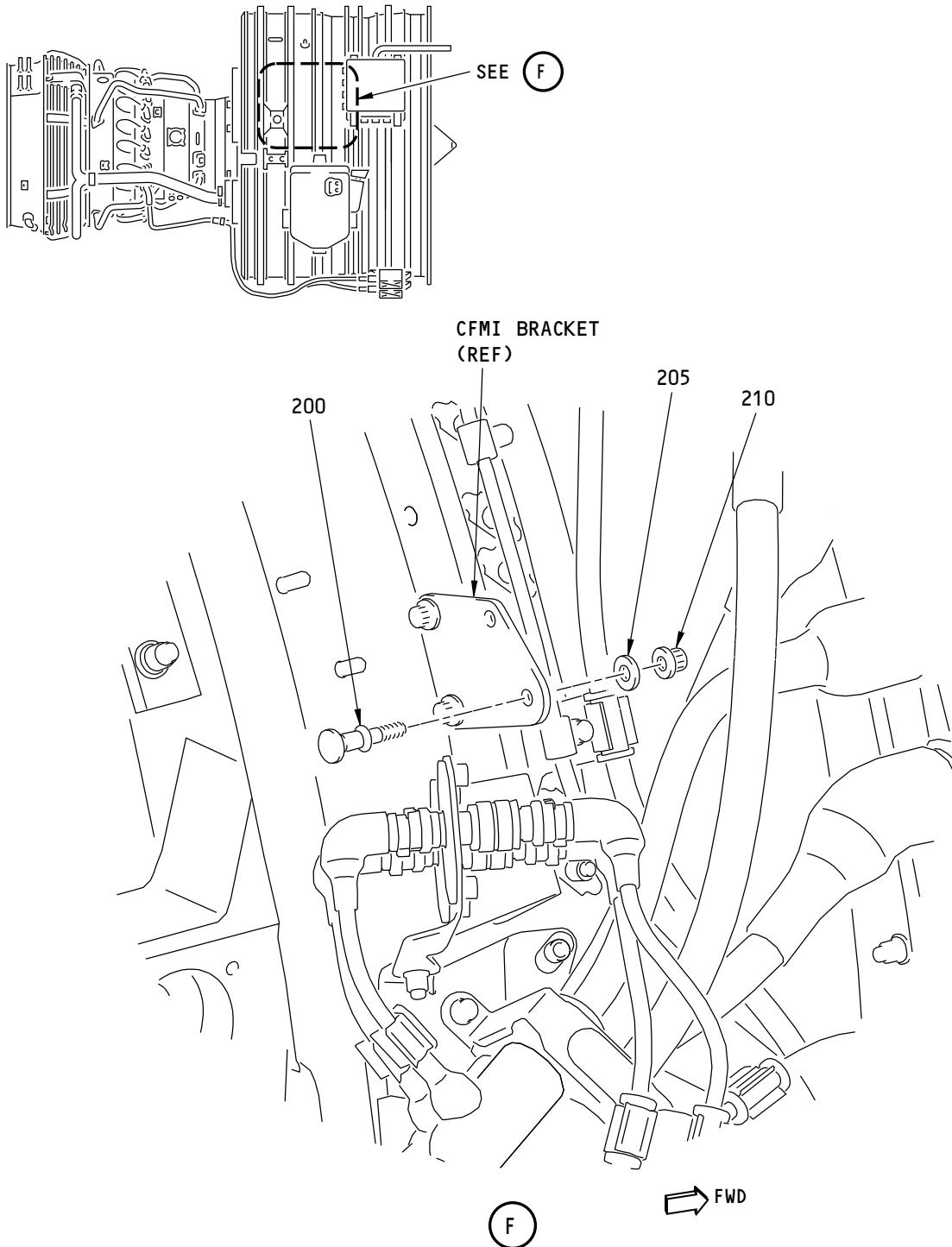
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 6-1      |              | <p><b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 6)</b></p> <p>REMOVE EXISTING CFMI FASTENER FROM 3RD HOLE UP FROM EEC MOUNT BRACKET ON FLANGE B5.</p> <p>ATTACH BRACKET ASSYS (175) TO 3RD AND 5TH HOLES UP FROM EEC MOUNT BRACKET ON FLANGE B5. USE EXISTING CFMI FASTENER AT LOWER HOLE AND BOLT (180), WASHER (185) AND NUT (190) AT UPPER HOLE.</p> <p><b>NOTE:</b> BRACKETS (125) AND (175) WILL BE CONNECTED TO INLET COWL TAI DUCT (REF INLET COWL TAI SYSTEM INSTALLATION/Figure 27-1).</p> |                                  |             |     |     |
| 175      | 332A2920-132 | . BRACKET ASSY  | FWD                              | FWD         |     | 2   |
| 175      | 332A2920-29  | . BRACKET ASSY (OPTIONAL)   | FWD                              | FWD         | OPT | -   |
| 180      | BACB30ZF4-14 | . BOLT (FWD SIDE)   |                                  |             |     | 1   |
| 185      | BACW10P393CB | . WASHER (UNDER BOLT HEAD AND UNDER NUT)  |                                  |             |     | 2   |
| 190      | AS3485-10    | . NUT   |                                  |             |     | 1   |
|          |              | TIGHTEN BOLT (180) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). TIGHTEN EXISTING CFMI FASTENER TO 100-112 POUND-INCHES (11.3-12.7 NEWTON METERS).   |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 13

Jun 15/2016

D633A106-AKS

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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 6-1

Page 14

Jun 15/2016

D633A106-AKS

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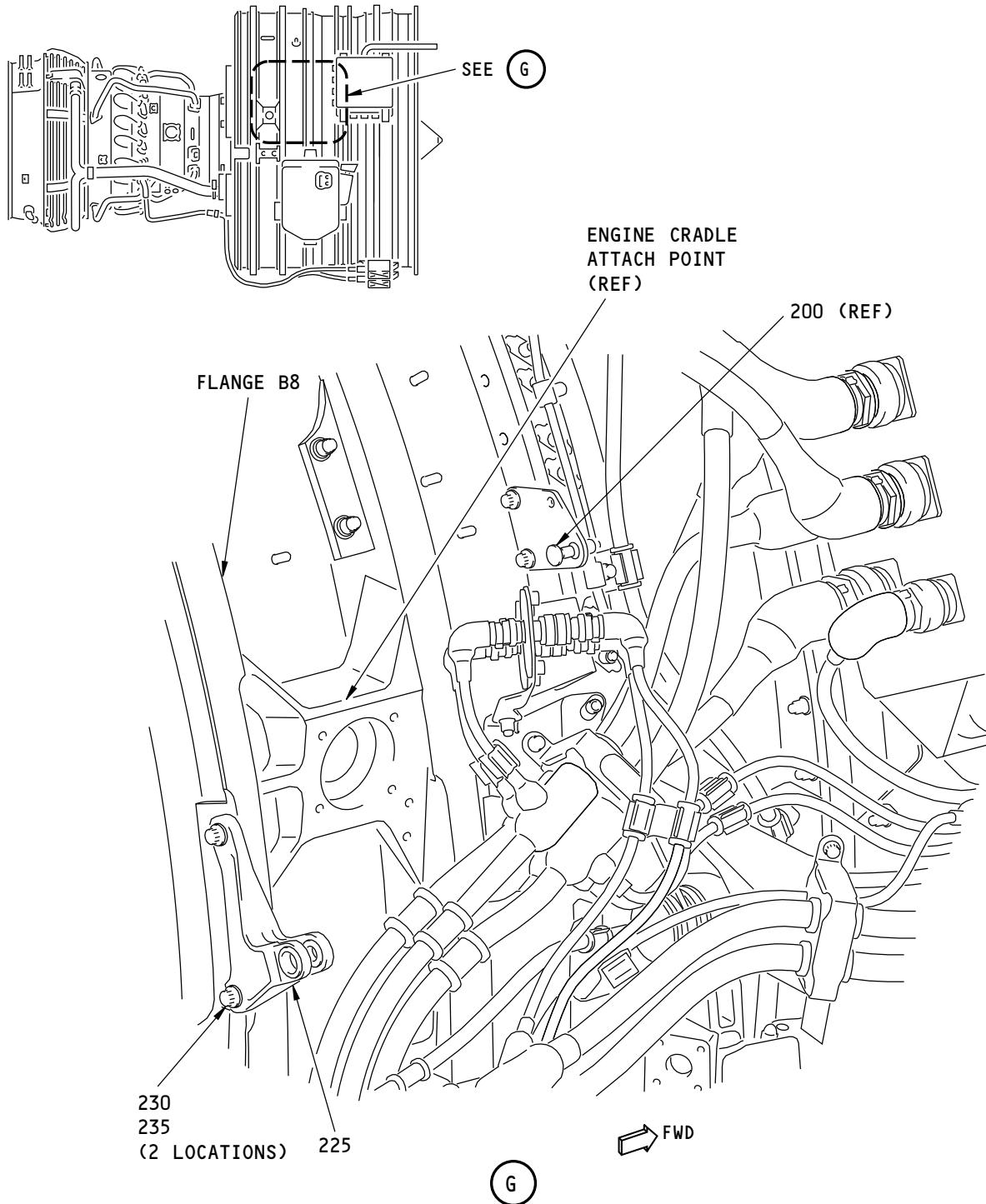
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|---------------|---|----------------------------------|-------------|----|-----|
|          |               |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 6-1      |               | <b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 7)</b><br>ATTACH RECEIVER (200) TO HOLE ON CFMI BRACKET ON 21ST AND 22ND HOLES DOWN FROM 12 O'CLOCK POSITION ON FLANGE B6. USE WASHER (205) AND NUT (210). |                                  |             |    |     |
| 200      | 370D1005-5    | . RECEIVER  | AFT                              |             |    | 1   |
| 205      | NAS1149C0432R | . WASHER (UNDER NUT)  |                                  |             |    | 1   |
| 210      | BACN11Z4CK    | . NUT   |                                  |             |    | 1   |
|          |               | TIGHTEN NUT (210) TO 65-100 POUND-INCHES (7.3-11.3 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 15

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 8)

71-00-02

P/P BUILDUP FIGURE 6-1

Page 16

Jun 15/2016

D633A106-AKS

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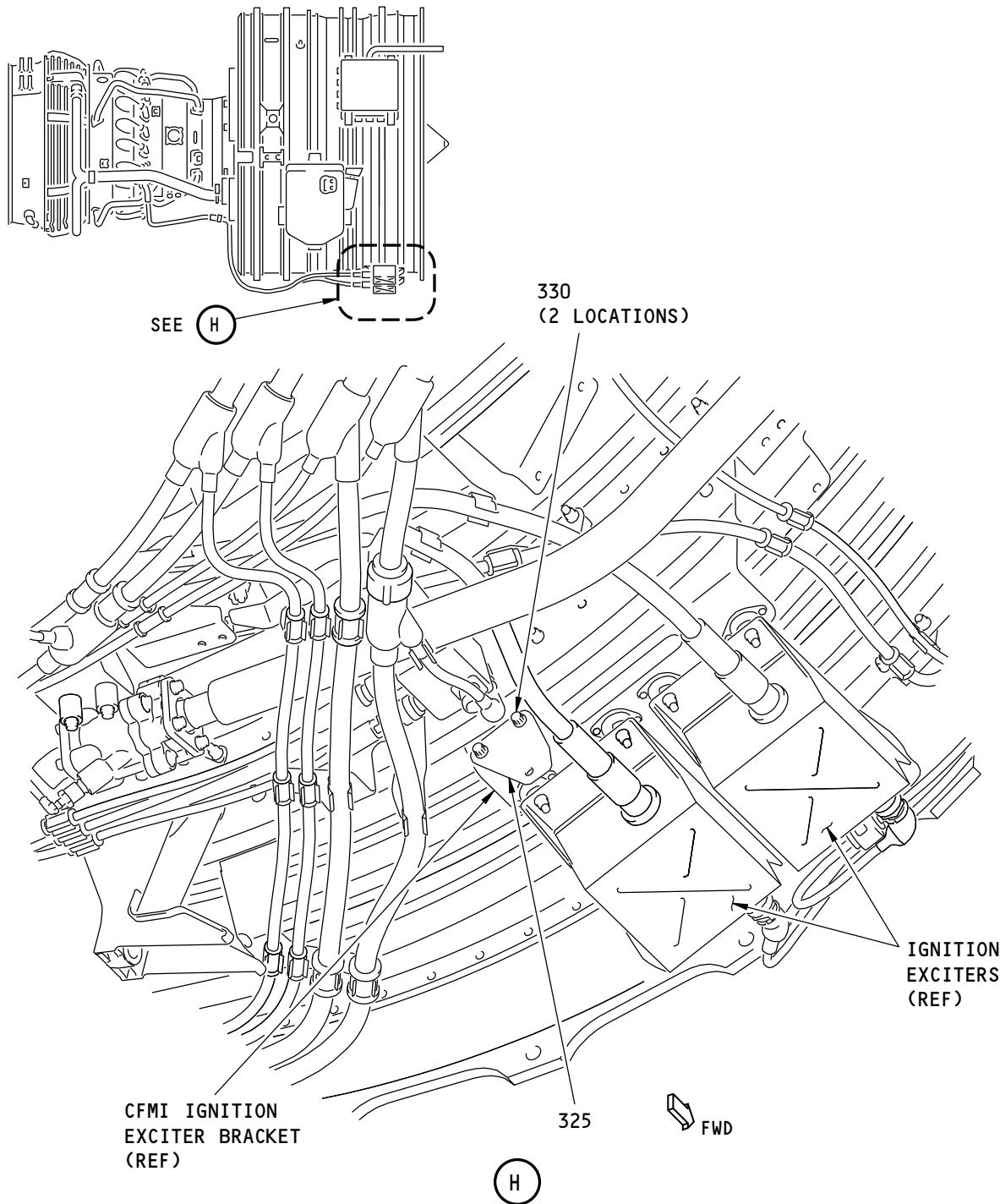
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 6-1      |              | <b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 8)</b><br>APPLY A THIN COATING OF ANTI-SEIZE compound, D50004 (C6) TO BOLTS (230).<br>ATTACH BRACKET ASSY (225) TO FLANGE B8 JUST ABOVE 3 O'CLOCK POSITION AND AFT OF ENGINE CRADLE ATTACH POINT. USE BOLTS (230) AND WASHERS (235). |                                  |             |    |     |
| 225      | 332A2930-62  | . BRACKET ASSY  | AFT                              |             |    | 1   |
| 230      | BACB30LE5U6  | . BOLT (AFT SIDE)   |                                  |             |    | 2   |
| 235      | BACW10BP5ACU | . WASHER (UNDER BOLT HEAD)  |                                  |             |    | 2   |
| C6       | D50004       | . COMPOUND  |                                  | CON         | AR |     |
|          |              | TIGHTEN BOLTS (230) TO 123-136 POUND-INCHES (13.89-15.36 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 17

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Right Side Fan Case**  
**Figure 6-1 (Sheet 9)**

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 18

Jun 15/2016

D633A106-AKS

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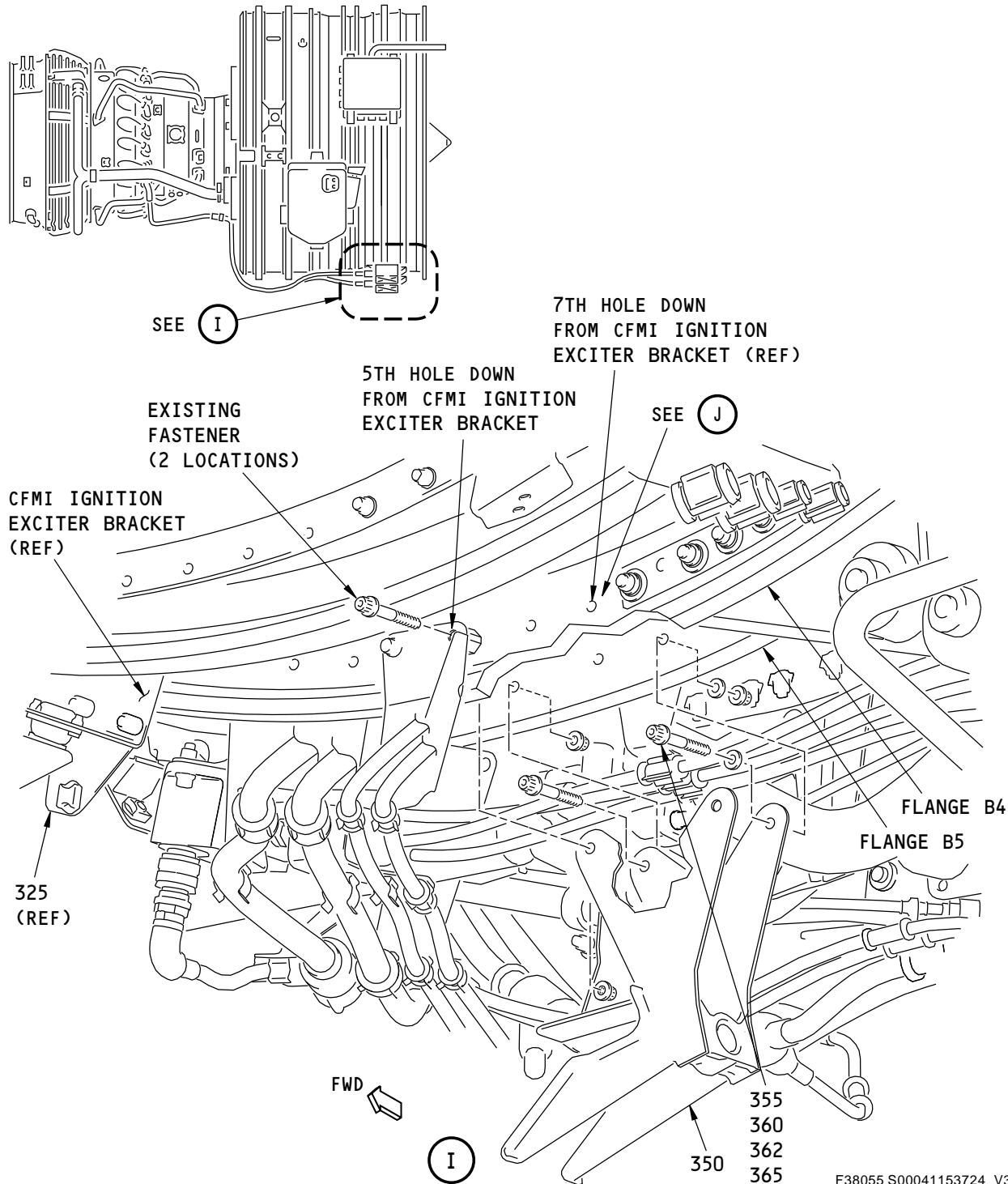
| ITEM NO. | PART NUMBER | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|-------------|--|----------------------------------|-------------|----|-----|
|          |             |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 6-1      |             | BRACKET INSTALLATION - RIGHT SIDE FAN CASE<br><b>(FIGURE 6-1, SHEET 9)</b><br>ATTACH BRACKET (325) TO LOWER AFT SIDE OF CFMI IGNITION EXCITER BRACKET ON FLANGE B4. USE BOLTS (330).<br>325 332A2910-26<br>330 BACB30ZF4-06<br>. BRACKET<br>. BOLT<br>TIGHTEN BOLTS (330) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). |                                  |             |    |     |
|          |             |  |                                  |             |    | 1   |
|          |             |  |                                  |             |    | 2   |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 19

Jun 15/2016

D633A106-AKS



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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 10)

71-00-02

P/P BUILDUP FIGURE 6-1

Page 20

Jun 15/2016

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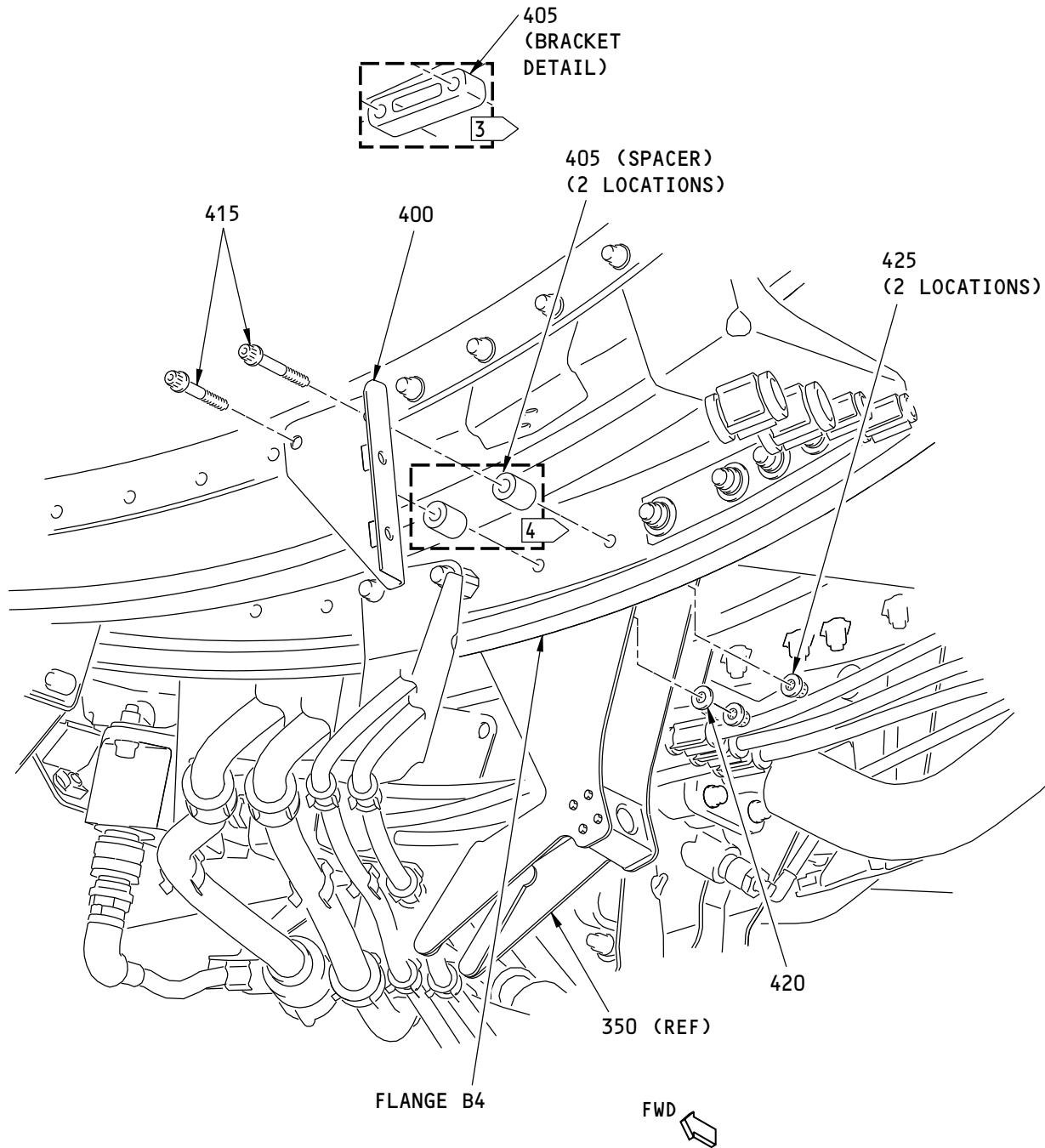
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |      | QTY |
|----------|---------------|---|----------------------------------|-------------|------|-----|
|          |               |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC   |     |
| 6-1      |               | <p><b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 10)</b></p> <p>REMOVE EXISTING CFMI FASTENERS FROM 5TH AND 7TH HOLES DOWN ON FLANGE B4 FROM CFMI IGNITION EXCITER BRACKET AND 7TH HOLE DOWN ON FLANGE B5.</p> <p>POSITION BRACKET ASSY (350) BETWEEN FLANGES B4 AND B5 AND ATTACH WITH EXISTING CFMI FASTENERS AT 5TH HOLES DOWN ON FLANGES B4 AND B5 AND BOLT (355), WASHERS (360, 362) AND NUT (365) AT 7TH HOLE DOWN ON FLANGE B5.</p> <p><b>NOTE:</b> DO NOT INSTALL A FASTENER AT THE 7TH HOLE DOWN ON FLANGE B4 AT THIS TIME.</p> |                                  |             |      |     |
| 350      | 332A2930-90   | . BRKT ASSY   |                                  |             | *[2] | 1   |
| 355      | BACB30ZF4-14  | . BOLT (FWD SIDE)   |                                  |             |      | 1   |
| 360      | NAS1149C0432R | . WASHER (UNDER BOLT HEAD)  |                                  |             |      | 1   |
| 362      | BACW10P393CB  | . WASHER (UNDER NUT)  |                                  |             |      | 1   |
| 365      | AS3485-10     | . NUT   |                                  |             |      | 1   |
|          |               | TIGHTEN BOLT (355) TO 80-90 POUNDS-INCHES (9.0-10.1 NEWTON METERS) AND EXISTING CFM BOLTS TO 100-112 POUND-INCHES (11.3-12.6 NEWTON METERS).  |                                  |             |      |     |
|          |               | *[2] FORKS OF BRACKET ASSY (350) FACE RIGHT SIDE OF ENGINE (SIDE WITH THE OIL TANK).  |                                  |             |      |     |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 21

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

3 ▶ OPTIONAL CONFIGURATION

4 ▶ PREFERRED CONFIGURATION

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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 6-1

Page 22

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

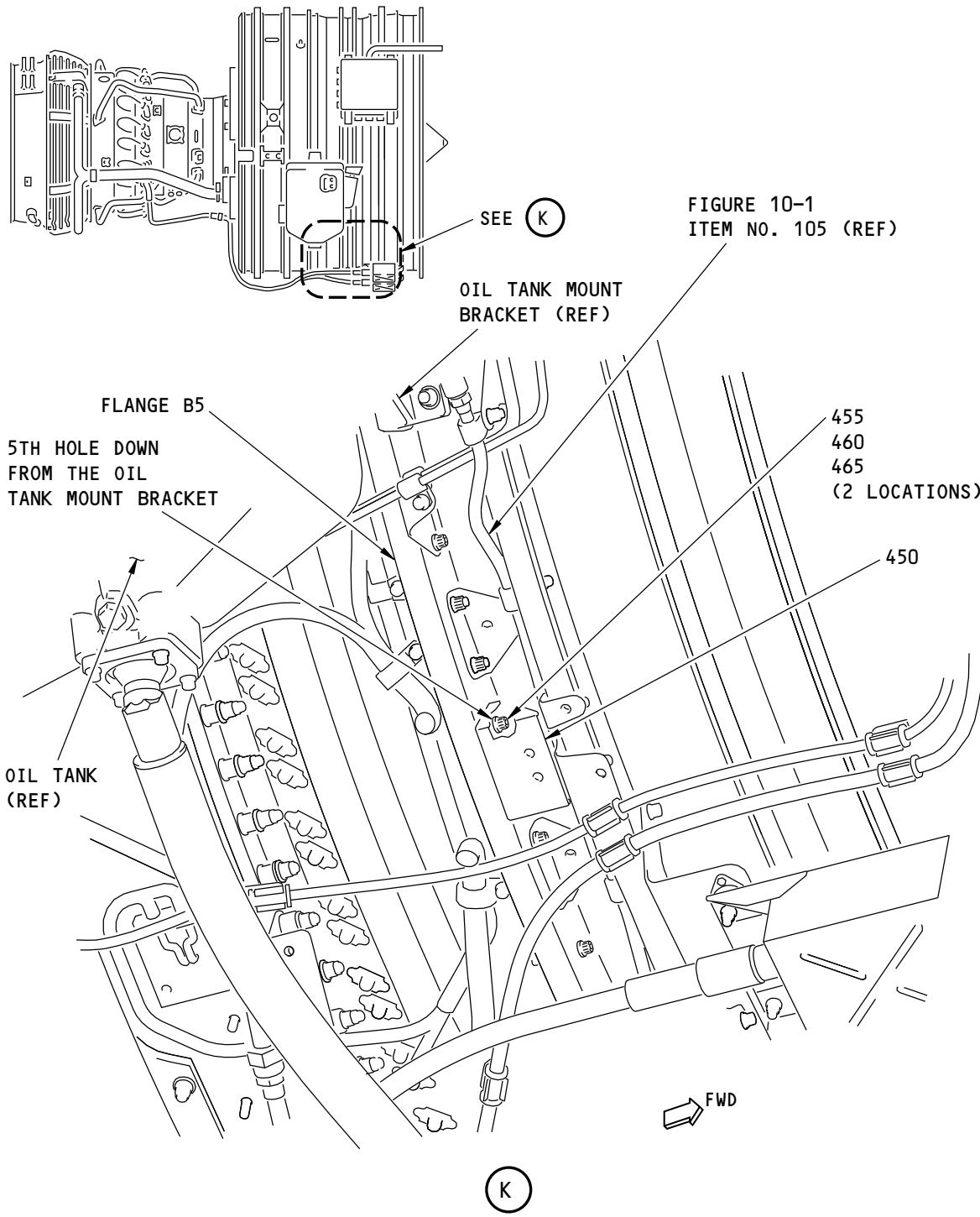
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|---------------|---|----------------------------------|-------------|-----|-----|
|          |               |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 6-1      |               | <b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 6-1, SHEET 11)</b><br>AT REMAINING BOLT LOCATION ON BRACKET ASSY (350), ATTACH BRACKET ASSY (400) AND SPACERS (405) OR BRACKET DETAIL (405) TO FLANGE B4. USE BOLTS (415), WASHER (420) AND NUTS (425). |                                  |             |     |     |
| 400      | 332A2910-51   | . BRACKET ASSY  | FWD                              | FWD         |     | 1   |
| 405      | BACS18K25-45W | . SPACER (PREFERRED CONFIGURATION)  |                                  |             | OPT | 2   |
| 405      | 332A2930-26   | . BRACKET DETAIL (OPT CONFIGURATION)  |                                  |             |     | -   |
| 415      | BACB30ZF4-24  | . BOLT (FWD SIDE)   |                                  |             |     | 2   |
| 420      | BACW10P393CB  | . WASHER (UNDER NUT)  |                                  |             |     | 1   |
| 425      | AS3485-10     | . NUT   |                                  |             |     | 2   |
|          |               | TIGHTEN BOLTS (415) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 23

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

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Bracket Installation - Right Side Fan Case  
Figure 6-1 (Sheet 12)

**71-00-02**  
P/P BUILDUP FIGURE 6-1  
Page 24  
Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|---|----------------------------------|-------------|-----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 6-1      |              | <b>BRACKET INSTALLATION - RIGHT SIDE FAN CASE<br/>(FIGURE 6-1, SHEET 12)</b><br><b>NOTE:</b> DUE TO LIMITED ACCESS, IT IS RECOMMENDED THAT DRAINS INSTL - RIGHT SIDE FAN CASE/ Figure 10-1 ITEM NO. (100) HOSE ASSY AND (105) TUBE ASSY BE INSTALLED PRIOR TO INSTALLATION OF BRACKET ASSY (450).<br>CLEAN MATING SURFACES OF BRACKET ASSY (450) AND FLANGE B5 WITH alcohol, B00130 (C1). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS. |                                  |             |     |     |
| 450      | 332A2920-237 | . BRACKET ASSY  | FWD                              |             |     | 1   |
| 450      | 332A2920-48  | . BRACKET ASSY (OPTIONAL TO 332A2920-237)   | FWD                              |             | OPT | -   |
| C1       | B00130       | . ALCOHOL<br><br>ATTACH BRACKET ASSY (450) TO 5TH AND 6TH HOLES DOWN FROM OIL TANK MOUNT BRACKET ON FLANGE B5. USE BOLTS (455), WASHERS (460) AND NUTS (465).   |                                  |             | CON | AR  |
| 455      | BACB30ZF4-12 | . BOLT (FWD SIDE)   |                                  |             |     | 2   |
| 460      | BACW10P393CB | . WASHER (UNDER NUT)  |                                  |             |     | 2   |
| 465      | AS3485-10    | . NUT<br><br>TIGHTEN BOLTS (455) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 6-1**

Page 25

Jun 15/2016

D633A106-AKS

**FIGURE 7-1**

**BRACKET INSTALLATION - LEFT SIDE CORE CASE**

**REF QEC TASK NO.: 7**

**REF DWG: 332A2900**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

**P/P BUILDUP FIGURE 7-1**

**Page 1**

**Jun 15/2016**

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Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 1)

**71-00-02**  
**P/P BUILDUP FIGURE 7-1**

Page 2

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 7-1      |             | BRACKET INSTALLATION - LEFT SIDE CORE CASE<br>(FIGURE 7-1, SHEET 1)<br>THIS SHEET NOT USED |    |     |

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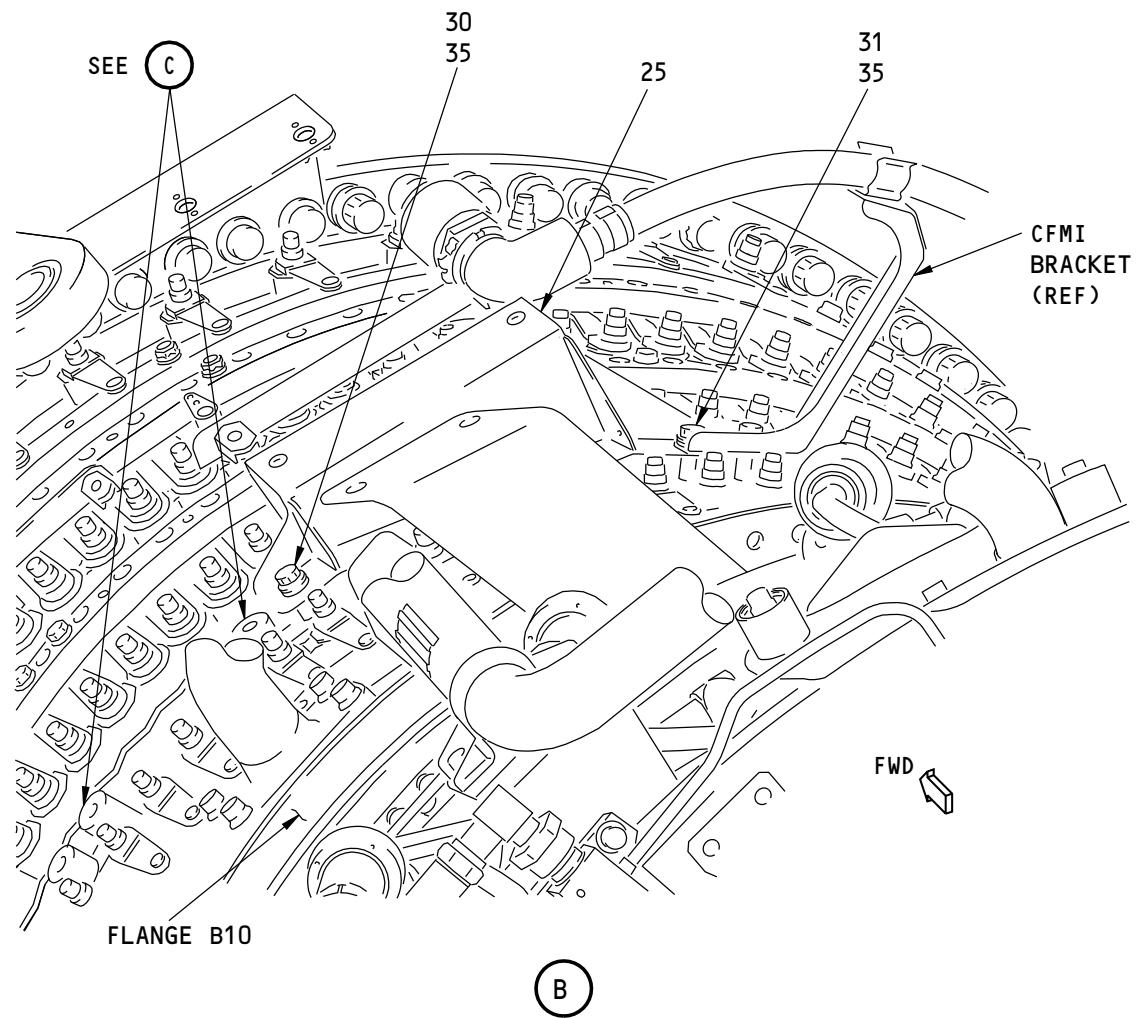
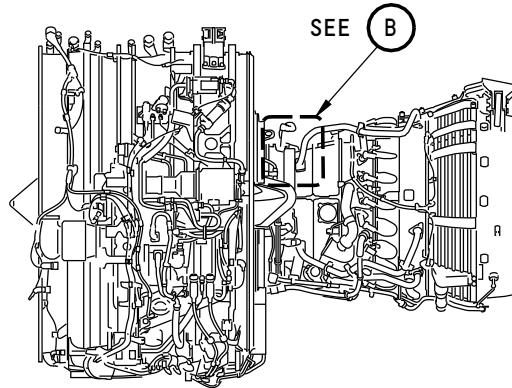
P/P BUILDUP FIGURE 7-1

Page 3

Jun 15/2016

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**Bracket Installation - Left Side Core Case**  
**Figure 7-1 (Sheet 2)**

**71-00-02**  
**P/P BUILDUP FIGURE 7-1**

Page 4

Jun 15/2016

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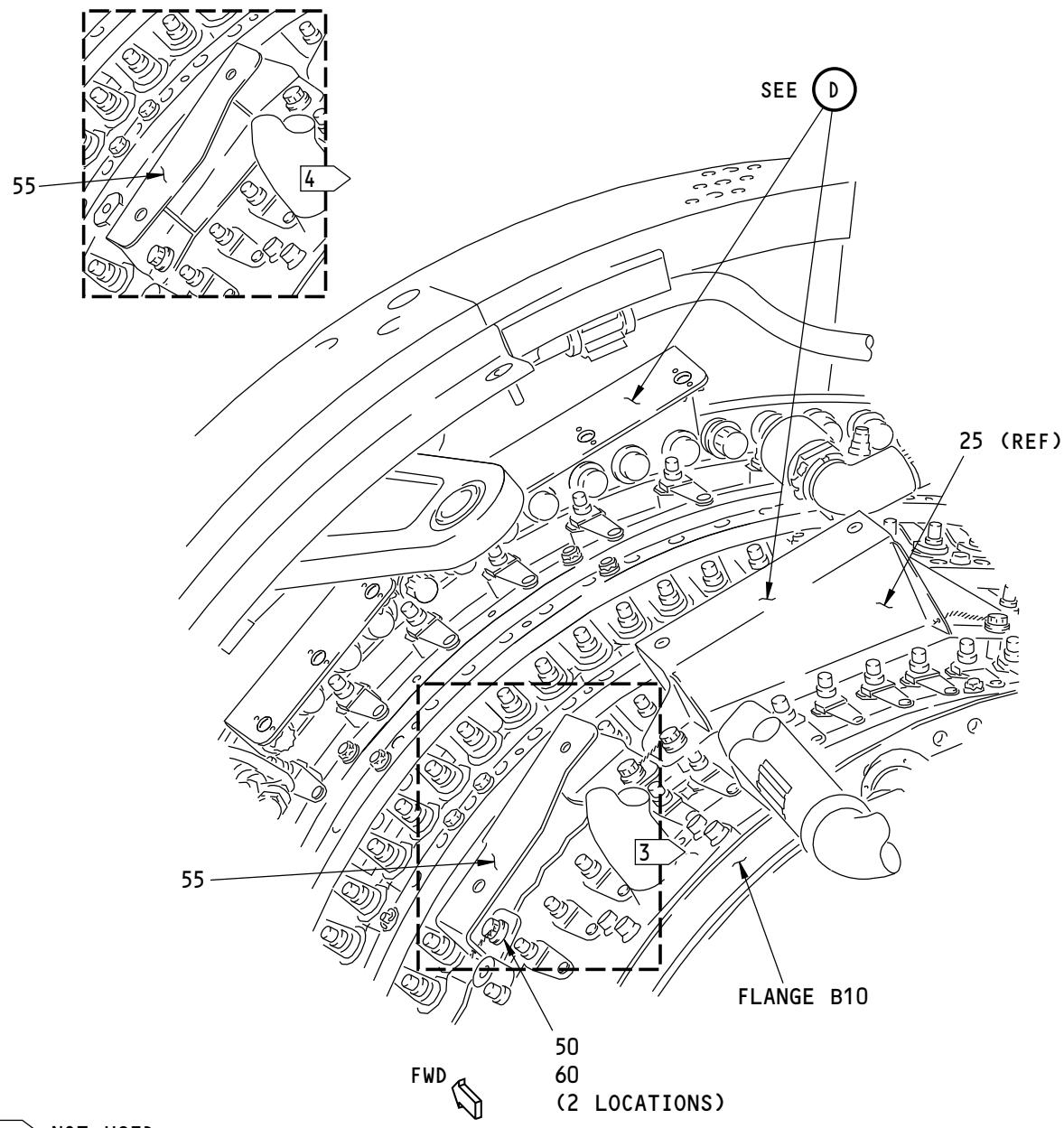
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 7-1      |              | <b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 7-1, SHEET 2)</b><br><br>CLEAN MATING SURFACES OF BRACKET ASSY (25) AND ENGINE BOSSES FWD OF FLANGE B10 WITH alcohol, B00130 (C1). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS. |                                  |             |     |     |
| 25       | 332A2920-201 | . BRACKET ASSY   |                                  |             |     | 1   |
| 25       | 332A2920-124 | . BRKT ASSY (OPTIONAL TO 332A2920-201)   |                                  |             | OPT | -   |
| C1       | B00130       | . ALCOHOL  |                                  |             | CON | AR  |
|          |              | APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C2) TO BOLT (30) AND BOLT (31) THREADS.   |                                  |             |     |     |
| 30       | BACB30LE4HU1 | . BOLT   |                                  |             |     | 1   |
| 31       | BACB30LE4HU2 | . BOLT   |                                  |             |     | 1   |
| C2       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>LOOSELY ATTACH BRACKET ASSY (25) TO ENGINE BOSSES WITH LUBRICATED BOLTS (30, 31) AND WASHERS (35). POSITION UPPER FLANGE OF BRACKET UNDER CFMI BRACKET (IF INSTALLED).                                      |                                  |             | CON | AR  |
| 35       | BACW10BP4ACU | . WASHER (CSK)   |                                  |             |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 5

Jun 15/2016

D633A106-AKS



- 1 NOT USED
- 2 NOT USED
- 3 PREFERRED CONFIGURATION
- 4 OPTIONAL CONFIGURATION

1652260 S0000303269\_V1

Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 3)

**71-00-02**  
P/P BUILDUP FIGURE 7-1

Page 6

Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|--|----------------------------------|-------------|----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 7-1      |              | BRACKET INSTALLATION - LEFT SIDE<br>CORE CASE<br>(FIGURE 7-1, SHEET 3)<br>APPLY LIGHT COATING OF Never-Seez<br>NSBT compound, D00006 (C2) TO BOLT (50)<br>THREADS. |                                  |             |    |     |
| 50       | BACB30LE4HU1 | . BOLT   |                                  |             |    | 2   |
| C2       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND  |                                  |             |    | AR  |
| 55       | 332A2920-225 | LOOSELY ATTACH BRACKET ASSY (55) TO<br>ENGINE BOSSES FWD OF FLANGE B10 AT<br>APPROXIMATELY 10 O'CLOCK POSITION<br>WITH LUBRICATED BOLTS (50) AND<br>WASHERS (60).  |                                  |             |    | 1   |
| 60       | BACW10BP4ACU | . BRACKET ASSY<br>. WASHER (CSK)   |                                  |             |    | 2   |

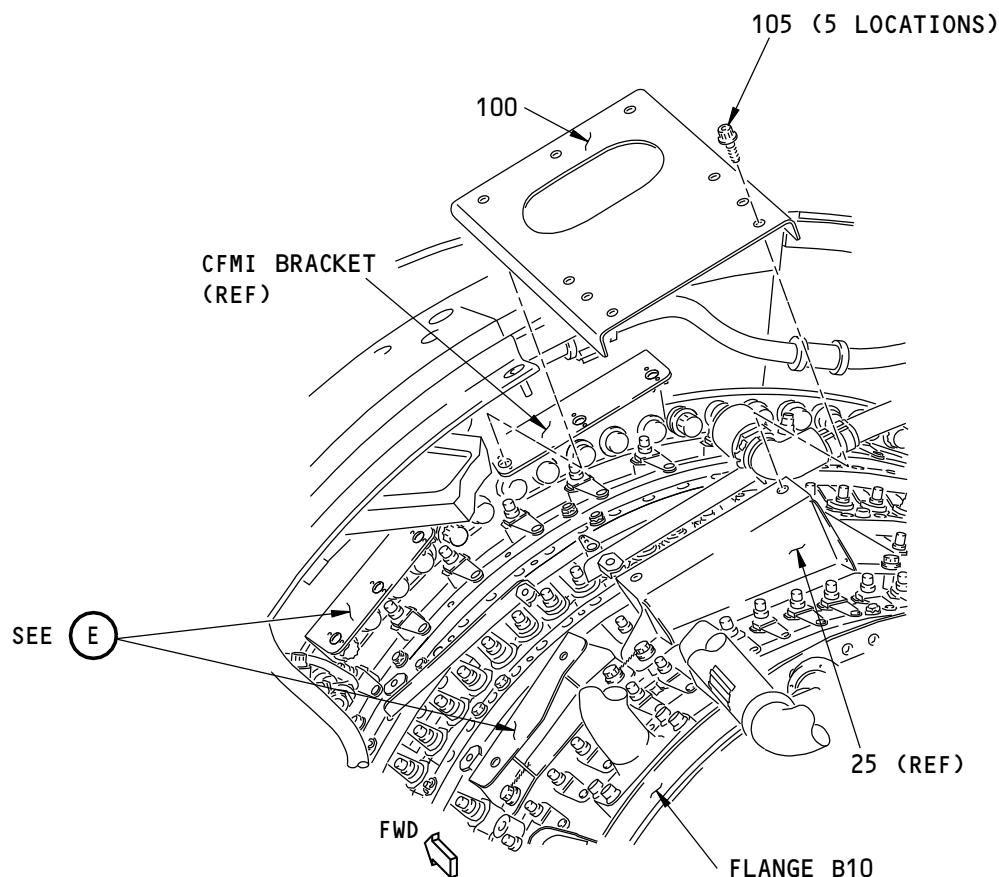
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P/P BUILDUP FIGURE 7-1

Page 7

Jun 15/2016

D633A106-AKS



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Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 4)

**71-00-02**  
**P/P BUILDUP FIGURE 7-1**

Page 8

Jun 15/2016

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POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 7-1      |              | BRACKET INSTALLATION - LEFT SIDE<br>CORE CASE<br>(FIGURE 7-1, SHEET 4)<br>CLEAN MATING SURFACES OF CFMI<br>BRACKET, BRACKET ASSY (100) AND<br>BRACKET ASSY (25) WITH alcohol, B00130<br>(C1).  |                                  |             |     |     |
| 100      | 332A2920-199 | . BRACKET ASSY   |                                  |             |     | 1   |
| 100      | 332A2920-143 | . BRKT ASSY (OPTIONAL TO 332A2920-199)   |                                  |             | OPT | -   |
| C1       | B00130       | . ALCOHOL  |                                  |             | CON | AR  |
| 105      | BACB30ZF4-06 | ATTACH BRACKET ASSY (100) TO BRACKET<br>BRACKET ASSY (25) AND CFMI BRACKET<br>USING BOLTS (105).<br><br>. BOLT<br><br>TIGHTEN BOLTS (105) TO 70-80<br>POUND-INCHES (7.9-9.0 NEWTON<br>METERS). |                                  |             |     | 5   |

71-00-02

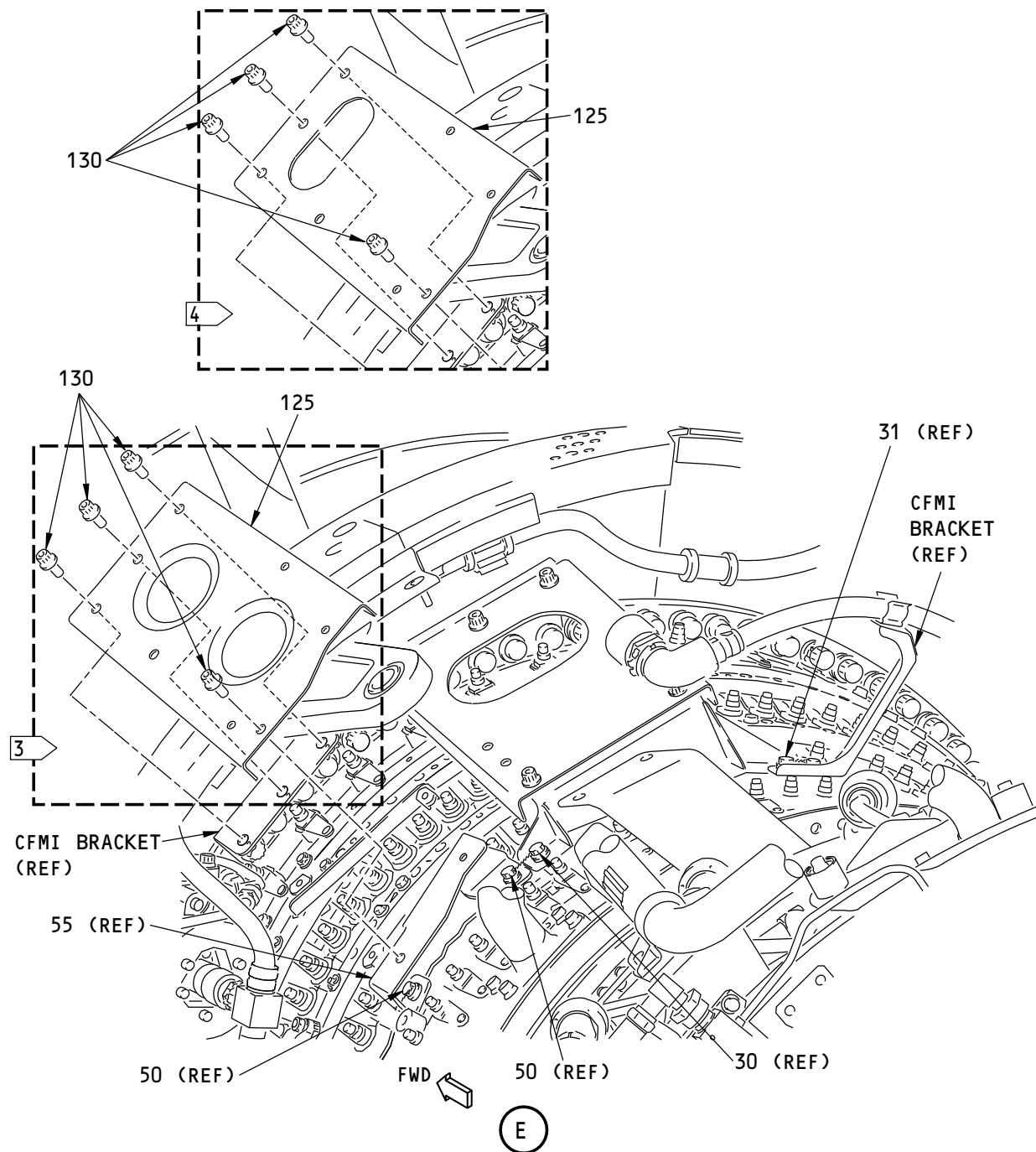
P/P BUILDUP FIGURE 7-1

Page 9

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

3 PREFERRED CONFIGURATION

4 OPTIONAL CONFIGURATION

M32707 S00041153738\_V1

Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 5)

**71-00-02**  
**P/P BUILDUP FIGURE 7-1**  
 Page 10  
 Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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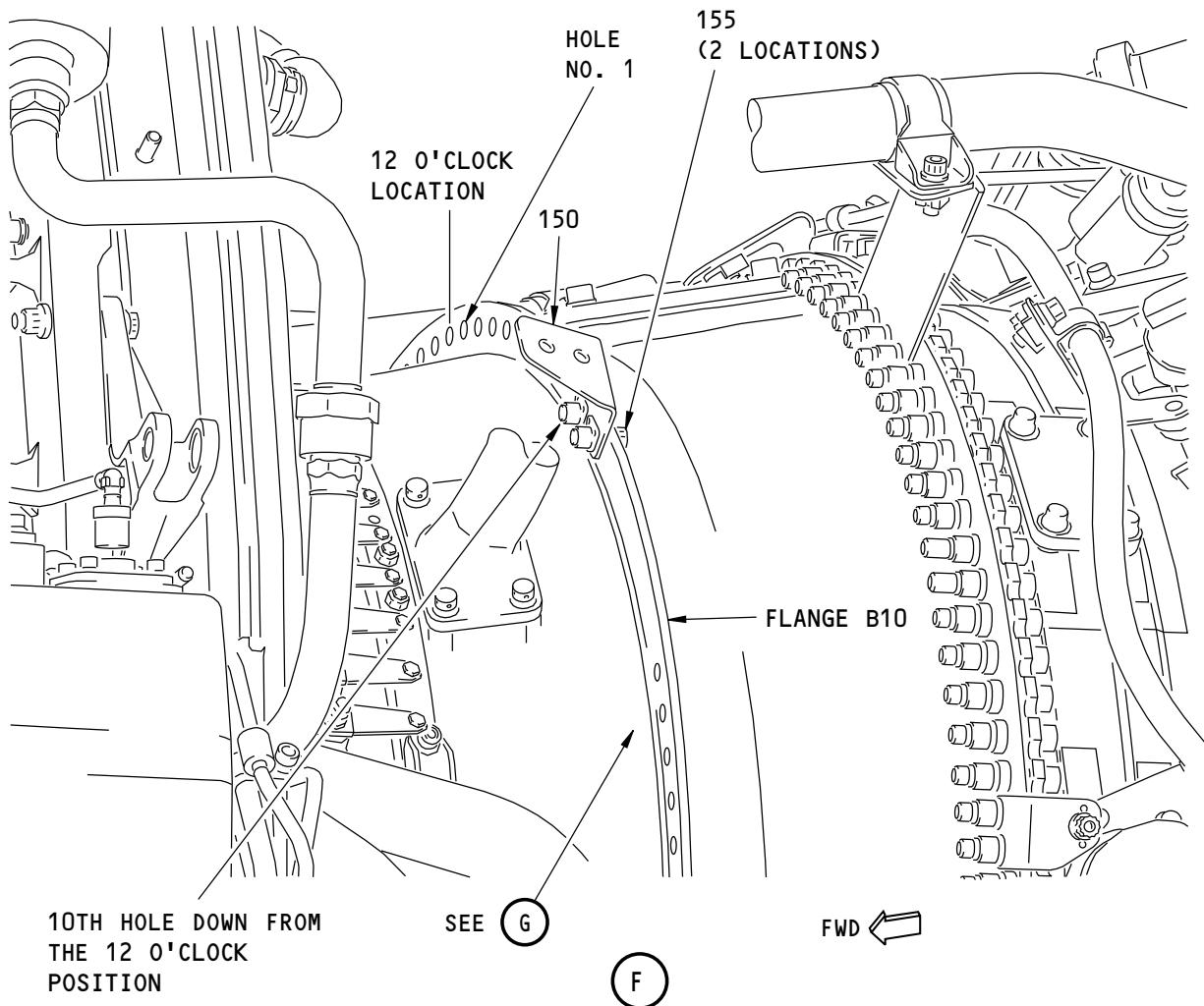
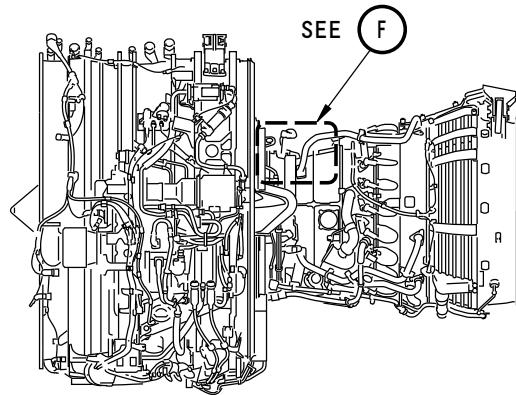
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 7-1      |              | <b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 7-1, SHEET 5)</b><br>ATTACH BRACKET ASSY (125) TO BRACKET ASSY (55) AND CFMI BRACKET USING BOLTS (130). <ul style="list-style-type: none"> <li>. BRACKET ASSY</li> <li>. BRKT ASSY (OPTIONAL TO 332A2920-185)</li> <li>. BOLT</li> </ul> TIGHTEN BOLTS (130) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).<br>TIGHTEN BOLT (30), BOLT (31) AND BOLTS (50) TO 90-110 POUND-INCHES (10.2-12.4 NEWTON METERS). SECURE BOLTS USING safety cable kit, G50375 (C3) OR MS20995NC32 lockwire, G01912 (C4) AS SHOWN.<br><b>NOTE:</b> IF OPT BRACKET ASSY (55) IS INSTALLED, SECURE LOWER BOLT (50) TO STIFFENER ABOVE BOLT. <ul style="list-style-type: none"> <li>. SAFETY CABLE KIT</li> <li>. MS20995NC32 LOCKWIRE</li> </ul> |                                  |             |     |     |
| 125      | 332A2920-185 |  |                                  |             |     | 1   |
| 125      | 332A2920-39  |  |                                  |             | OPT | -   |
| 130      | BACB30ZF4-06 |  |                                  |             |     | 4   |
| C3       | G50375       |  |                                  |             | CON | 3   |
| C4       | G01912       |  |                                  |             | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 11

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 6)

**71-00-02**  
P/P BUILDUP FIGURE 7-1  
Page 12  
Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

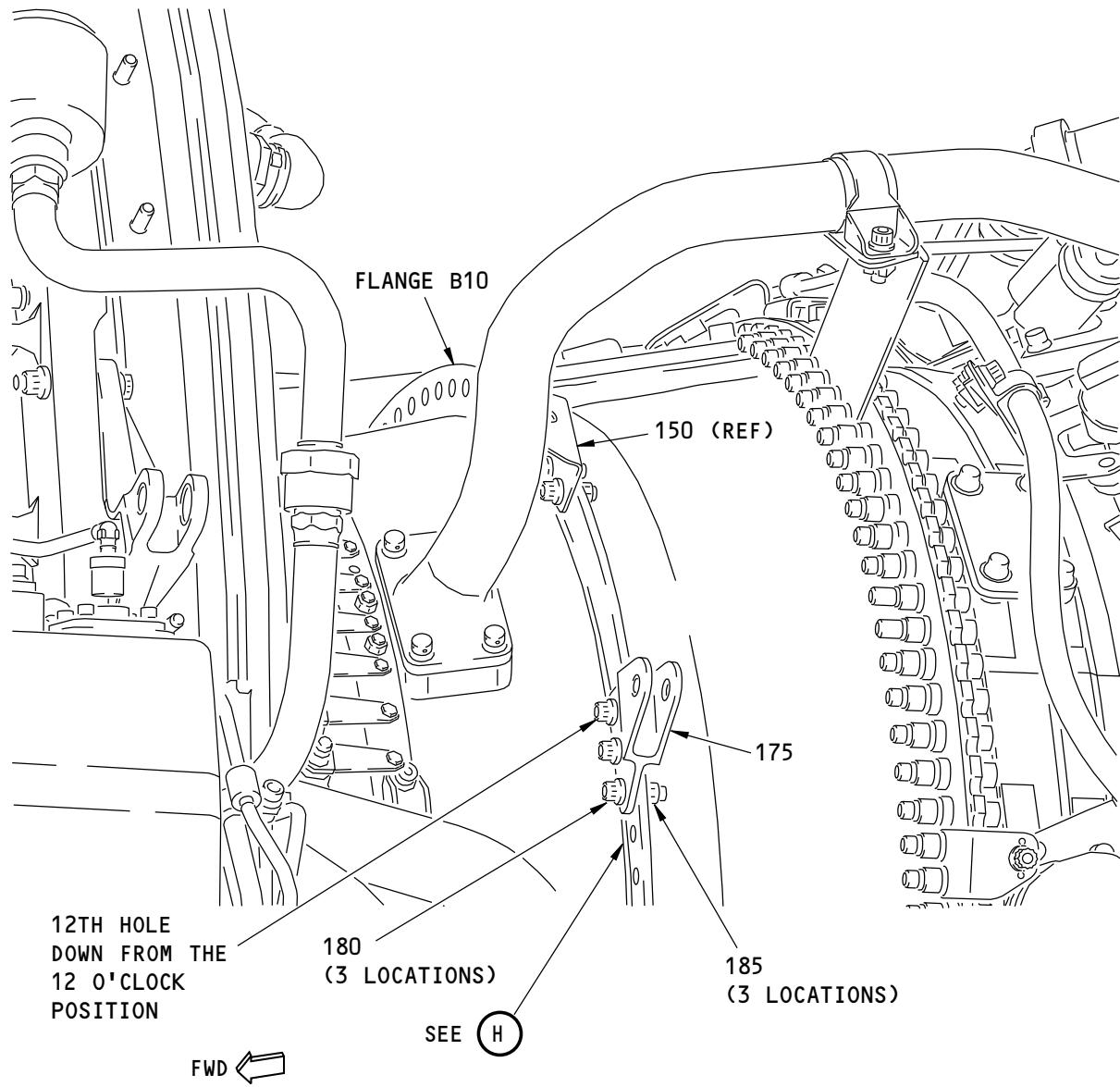
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 7-1      |              | <b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 7-1, SHEET 6)</b><br>ATTACH BRACKET ASSY (150) TO LEFT BOTTOM 2 HOLES ON TOP HOLE SEGMENT (10TH AND 11TH HOLE DOWN FROM 12 O'CLOCK) ON FLANGE B10. USE BOLTS (155). |                                  |             |    |     |
| 150      | 332A2910-111 | . BRACKET ASSY  | FWD                              | FWD         |    | 1   |
| 155      | BACB30ZF4-07 | . BOLT<br><br>TIGHTEN BOLTS (155) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |                                  |             |    | 2   |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 7-1

Page 14

Jun 15/2016

D633A106-AKS

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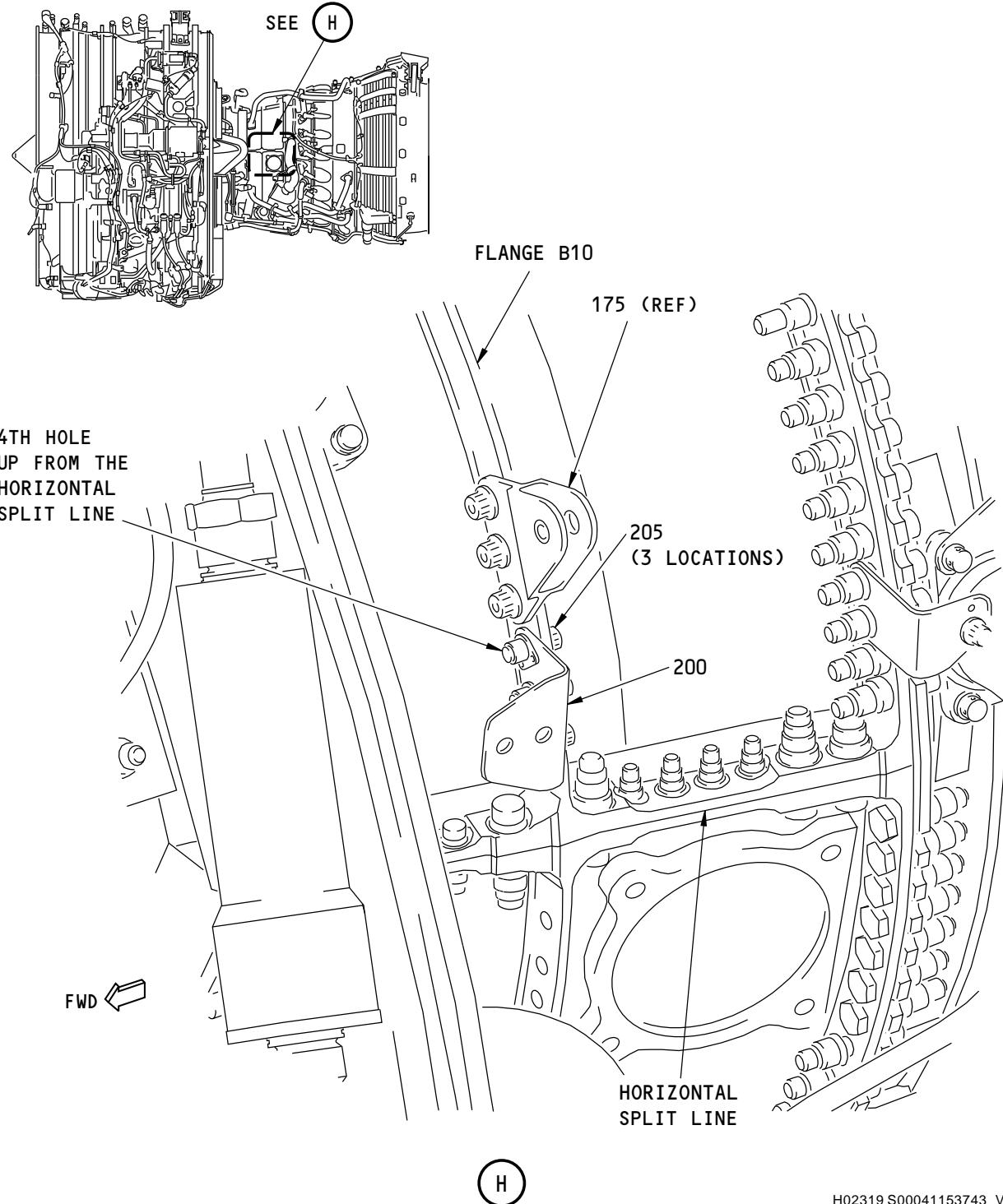
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |     | QTY |
|----------|--------------|--|----------------------------------|-------------|-----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC  |     |
| 7-1      |              | <b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 7-1, SHEET 7)</b><br>ATTACH BRACKET ASSY (175) TO FIRST THREE HOLES IN CENTER BOLT HOLE SEGMENT (12TH, 13TH AND 14TH HOLE DOWN FROM 12 O'CLOCK) ON FLANGE B10. USE BOLTS (180) AND NUTS (185). |                                  |             |     |     |
| 175      | 332A2920-179 | . BRACKET ASSY   | FWD                              |             |     | 1   |
| 175      | 332A2930-17  | . BRACKET ASSY* <sup>[7]</sup>   | FWD                              |             | OPT | -   |
| 180      | BACB30ZF4-12 | . BOLT (FWD SIDE)  |                                  |             |     | 3   |
| 180      | BACB30ZF4-10 | . BOLT (FWD SIDE)* <sup>[7]</sup>  |                                  |             | OPT | -   |
| 185      | AS3485-10    | . NUT  |                                  |             |     | 3   |
|          |              | TIGHTEN BOLTS (180) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |     |     |
|          |              | *[7] 332A2930-17 BRACKET ASSY (175) TOGETHER WITH BACB30ZF4-10 BOLTS (180) OPTIONAL TO 332A2920-179 BRACKET ASSY (175) TOGETHER WITH BACB30ZF4-12 BOLTS (180).   |                                  |             |     |     |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 15

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Left Side Core Case**  
**Figure 7-1 (Sheet 8)**

**71-00-02**  
**P/P BUILDUP FIGURE 7-1**  
 Page 16  
 Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

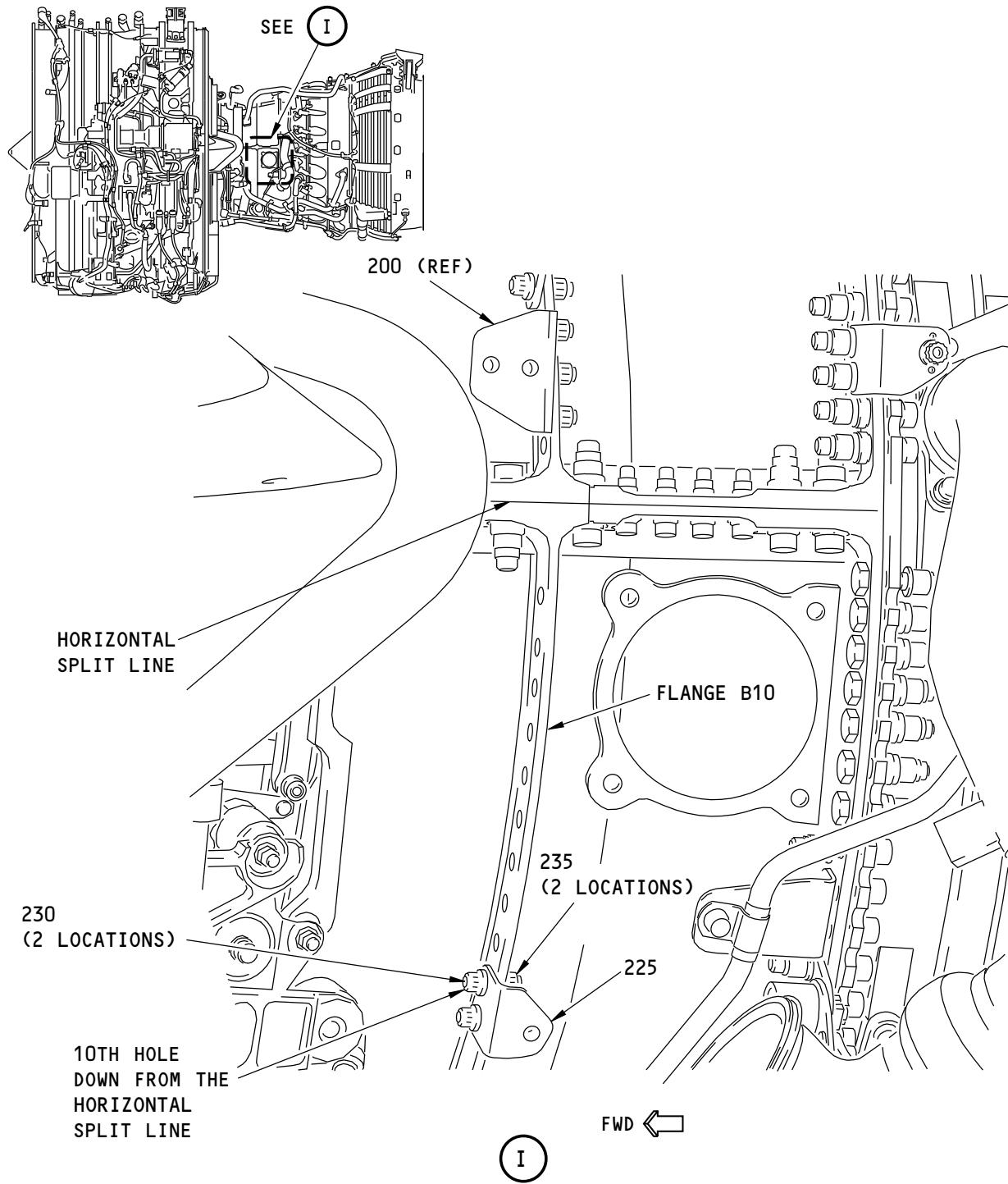
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|--|----------------------------------|-------------|----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 7-1      |              | <b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 7-1, SHEET 8)</b><br><br>ATTACH BRACKET ASSY (200) TO 2ND, 3RD AND 4TH HOLES UP FROM HORIZONTAL SPLIT LINE ON FLANGE B10. USE BOLTS (205). |                                  |             |    |     |
| 200      | 332A2910-128 | . BRACKET ASSY   | FWD                              | FWD         |    | 1   |
| 205      | BACB30ZF4-07 | . BOLT<br><br>TIGHTEN BOLTS (205) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |    | 3   |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 17

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Left Side Core Case**  
**Figure 7-1 (Sheet 9)**

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 18

Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 7-1      |              | <b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 7-1, SHEET 9)</b><br>ATTACH BRACKET ASSY (225) TO 10TH AND 11TH HOLE DOWN FROM HORIZONTAL SPLIT LINE ON FLANGE B10. USE BOLTS (230) AND NUTS (235). |                                  |             |    |     |
| 225      | 332A2910-11  | . BRACKET ASSY  | FWD                              | AFT         | 1  |     |
| 230      | BACB30ZF4-08 | . BOLT (FWD SIDE)   |                                  |             | 2  |     |
| 235      | AS3485-10    | . NUT<br><br>TIGHTEN BOLTS (230) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             | 2  |     |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 19

Jun 15/2016

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Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 10)

**71-00-02**

P/P BUILDUP FIGURE 7-1

Page 20

Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 7-1      |             | BRACKET INSTALLATION - LEFT SIDE CORE CASE<br>(FIGURE 7-1, SHEET 10)<br>THIS SHEET NOT USED |    |     |

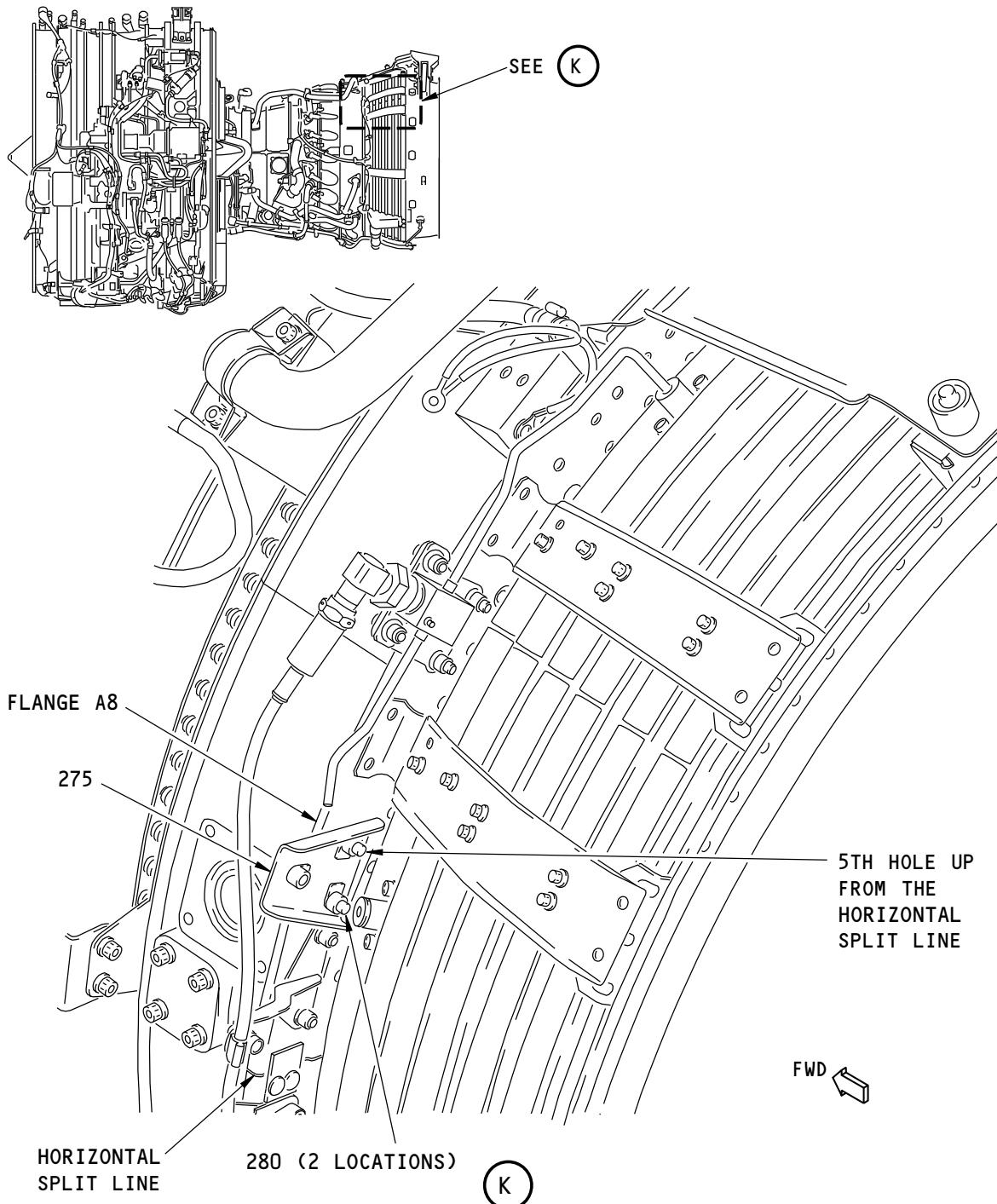
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P/P BUILDUP FIGURE 7-1

Page 21

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Left Side Core Case**  
**Figure 7-1 (Sheet 11)**

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 22

Jun 15/2016

D633A106-AKS

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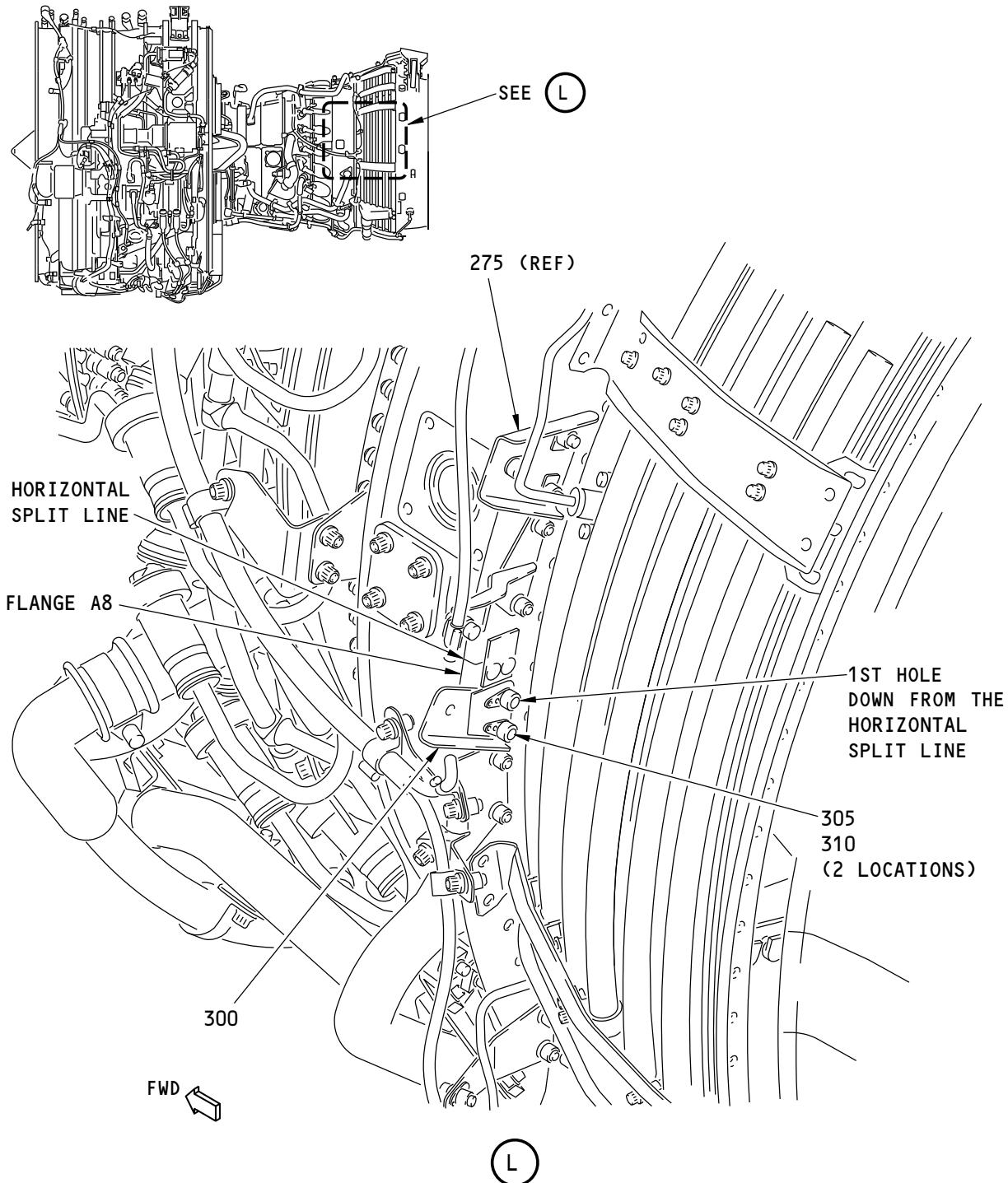
| ITEM NO. | PART NUMBER | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY    |
|----------|-------------|---|----------------------------------|-------------|----|--------|
|          |             |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |        |
| 7-1      |             | BRACKET INSTALLATION - LEFT SIDE<br>CORE CASE<br>(FIGURE 7-1, SHEET 11)<br>ATTACH BRACKET ASSY (275) TO 4TH AND<br>5TH HOLES UP FROM HORIZONTAL SPLIT<br>LINE ON FLG A8 USING BOLTS (280).<br><br>275 332A2910-106<br>280 BACB30ZF4-06<br><br>. BRACKET ASSY<br>. BOLT (FWD SIDE)<br><br>TIGHTEN BOLTS (280) TO 110-120<br>POUND-INCHES (12.4-13.6 NEWTON<br>METERS). | AFT                              |             |    | 1<br>2 |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 23

Jun 15/2016

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Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 12)

**71-00-02**  
**P/P BUILDUP FIGURE 7-1**  
 Page 24  
 Jun 15/2016

D633A106-AKS

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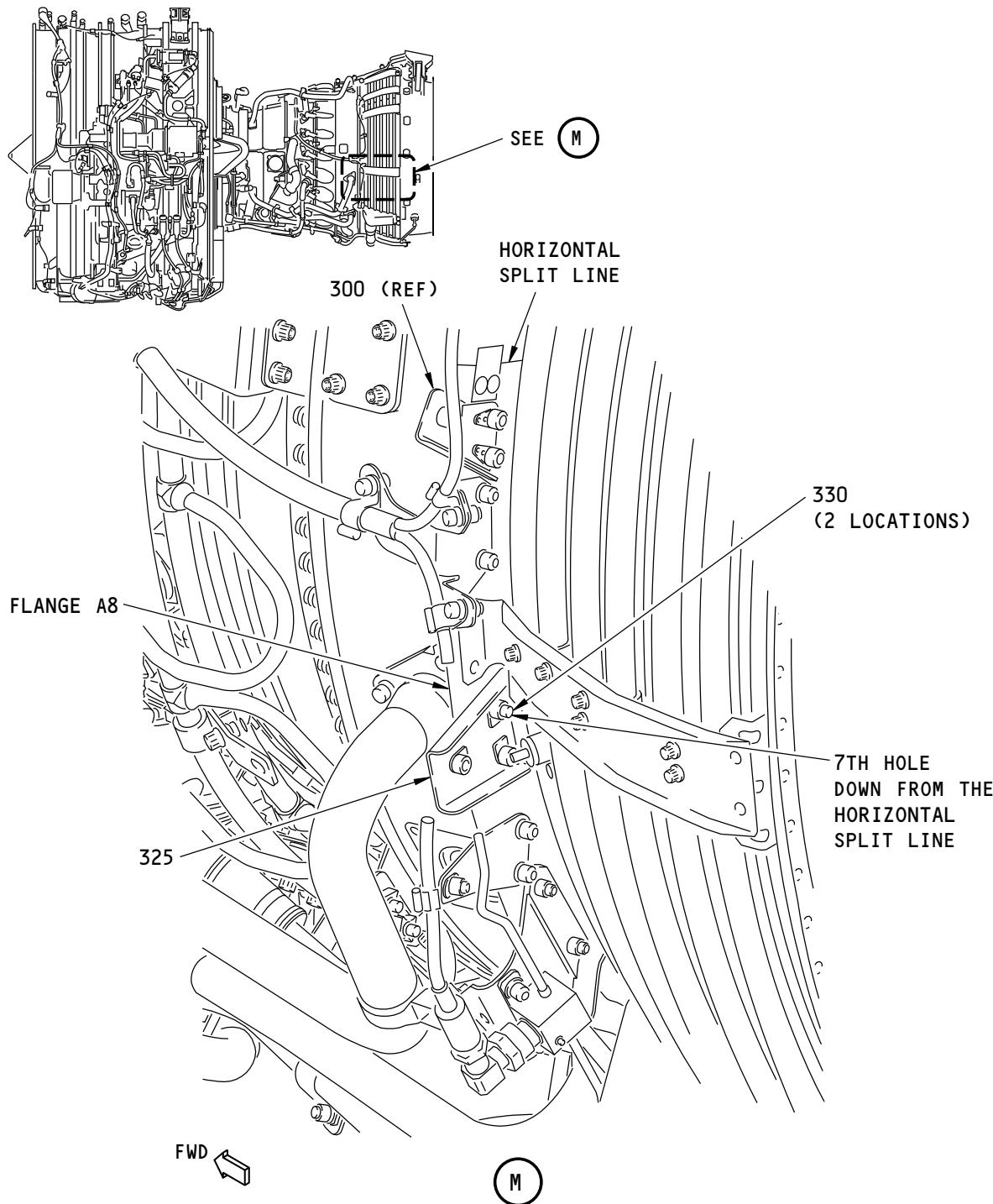
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 7-1      |              | <b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 7-1, SHEET 12)</b><br>ATTACH BRACKET ASSY (300) TO 1ST AND 2ND HOLES DOWN FROM HORIZONTAL SPLIT LINE ON FLANGE A8 USING BOLTS (305) AND NUTS (310). |                                  |             |    |     |
| 300      | 332A2910-39  | . BRACKET ASSY  | AFT                              |             |    | 1   |
| 305      | BACB30ZF4-07 | . BOLT (FWD SIDE)   |                                  |             |    | 2   |
| 310      | AS3485-10    | . NUT   |                                  |             |    | 2   |
|          |              | TIGHTEN BOLTS (305) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 25

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

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Bracket Installation - Left Side Core Case  
Figure 7-1 (Sheet 13)

**71-00-02**  
**P/P BUILDUP FIGURE 7-1**  
 Page 26  
 Jun 15/2016

D633A106-AKS

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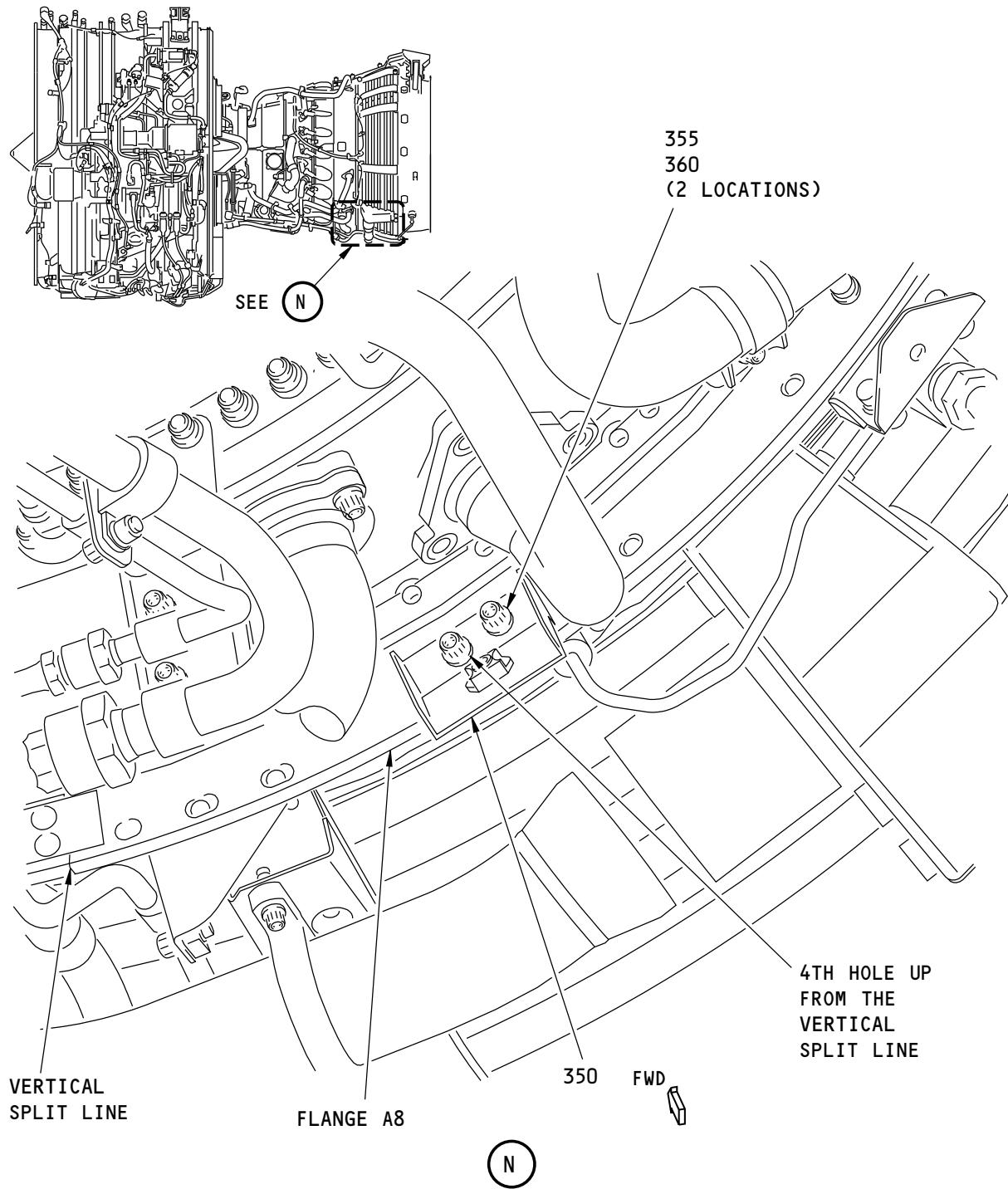
| ITEM NO. | PART NUMBER | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY    |
|----------|-------------|--|----------------------------------|-------------|----|--------|
|          |             |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |        |
| 7-1      |             | BRACKET INSTALLATION - LEFT SIDE<br>CORE CASE<br>(FIGURE 7-1, SHEET 13)<br>ATTACH BRACKET ASSY (325) TO 7TH AND<br>8TH HOLES DOWN FROM HORIZONTAL<br>SPLIT LINE ON FLANGE A8 USING BOLTS<br>(330).<br>325 330<br>. BRACKET ASSY<br>. BOLT (FWD SIDE)<br>TIGHTEN BOLTS (330) TO 110-120<br>POUND-INCHES (12.4-13.6 NEWTON<br>METERS). | AFT                              |             |    | 1<br>2 |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 27

Jun 15/2016

D633A106-AKS



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**Bracket Installation - Left Side Core Case**  
**Figure 7-1 (Sheet 14)**

**71-00-02**  
**P/P BUILDUP FIGURE 7-1**

Page 28

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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| ITEM NO. | PART NUMBER  | NOMENCLATURE   | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|--|----------------------------------|-------------|----|-----|
|          |              |  | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 7-1      |              | <b>BRACKET INSTALLATION - LEFT SIDE CORE CASE (FIGURE 7-1, SHEET 14)</b><br>ATTACH BRACKET ASSY (350) TO 4TH AND 5TH HOLES UP FROM VERTICAL SPLIT LINE AT 6 O'CLOCK POSITION ON FLANGE A8. USE BOLTS (355) AND NUTS (360). |                                  |             |    |     |
| 350      | 332A2920-55  | . BRACKET ASSY   | FWD                              |             |    | 1   |
| 355      | BACB30ZF4-07 | . BOLT (FWD SIDE)  |                                  |             |    | 2   |
| 360      | AS3485-10    | . NUT  |                                  |             |    | 2   |
|          |              | TIGHTEN BOLTS (355) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 7-1**

Page 29

Jun 15/2016

D633A106-AKS

**FIGURE 8-1**

**BRACKET INSTALLATION - RIGHT SIDE CORE  
CASE**

**REF QEC TASK NO.: 8**

**REF DWG: 332A2900**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

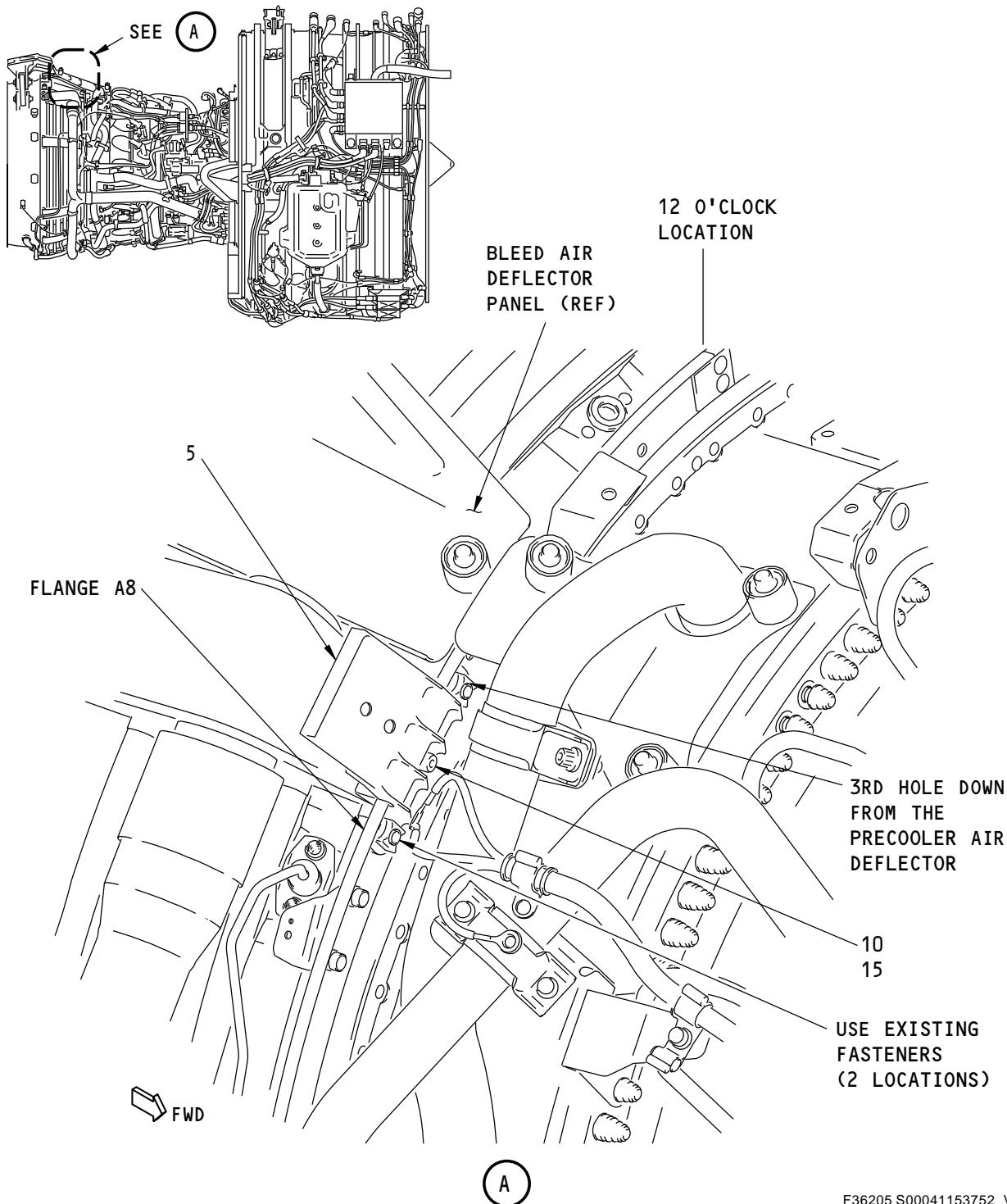
**P/P BUILDUP FIGURE 8-1**

**Page 1**

**Jun 15/2016**

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Bracket Installation - Right Side Core Case  
Figure 8-1 (Sheet 1)

**71-00-02**  
**P/P BUILDUP FIGURE 8-1**  
 Page 2  
 Jun 15/2016

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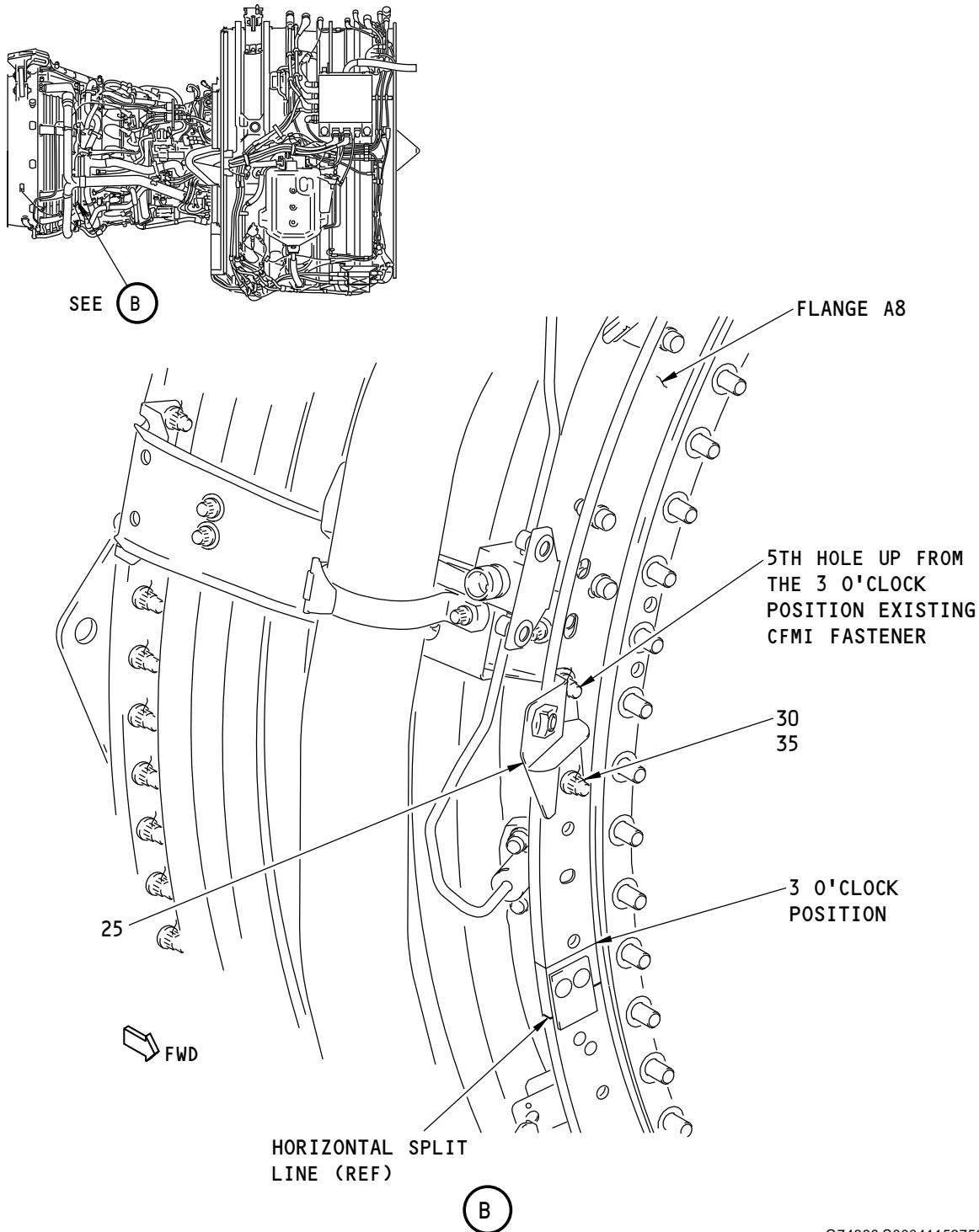
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|---------------|---|----------------------------------|-------------|----|-----|
|          |               |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 8-1      |               | BRACKET INSTALLATION - RIGHT SIDE<br>CORE CASE<br>(FIGURE 8-1, SHEET 1)<br>REMOVE EXISTING CFMI FASTENERS<br>FROM 3RD, 4TH AND 5TH HOLES DOWN<br>FROM PRECOOLER AIR DEFLECTOR ON<br>FLANGE A8. CLEAN MATING SURFACES OF<br>BRACKET ASSY (5) AND ENGINE FLANGE<br>WITH alcohol, B00130 (C1). MAKE SURE<br>YOU REMOVE ALL GREASE AND OTHER<br>CONTAMINANTS. |                                  |             |    |     |
| 5        | 332A2920-230  | . BRACKET ASSY  | FWD                              | CON         | 1  | AR  |
| C1       | B00130        | . ALCOHOL<br><br>ATTACH BRACKET ASSY (5) TO ENGINE<br>FLANGE A8. USE EXISTING CFMI<br>FASTENERS ON OUTBOARD HOLES AND<br>BOLT (10), WASHER (15) AND EXISTING<br>CFMI NUT AT CENTER LOCATION.  |                                  |             |    |     |
| 10       | BACB30ZF4-09  | . BOLT (FWD SIDE)   |                                  |             | 1  |     |
| 15       | NAS1149C0432R | . WASHER (UNDER BOLT HEAD)<br><br>TIGHTEN BOLT (10) TO 110-120<br>POUND-INCHES (12.4-13.6 NEWTON<br>METERS). TIGHTEN EXISTING CFMI BOLTS<br>TO 100-112 POUND-INCHES (11.3-12.7<br>NEWTON METERS).   |                                  |             | 1  |     |

**71-00-02****P/P BUILDUP FIGURE 8-1**

Page 3

Jun 15/2016

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Bracket Installation - Right Side Core Case  
Figure 8-1 (Sheet 2)

**71-00-02**  
P/P BUILDUP FIGURE 8-1  
Page 4  
Jun 15/2016

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| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 8-1      |              | <b>BRACKET INSTALLATION - RIGHT SIDE CORE CASE (FIGURE 8-1, SHEET 2)</b><br>REMOVE EXISTING CFMI FASTENER FROM 5TH HOLE UP FROM 3 O'CLOCK POSITION ON FLANGE A8.<br>ATTACH BRACKET ASSY (25) TO 5TH HOLE UP FROM 3 O'CLOCK POSITION ON FLANGE A8 USING EXISTING CFMI FASTENER AND 4TH HOLE UP USING BOLT (30) AND NUT (35). |                                  |             |    |     |
| 25       | 332A2921-1   | . BRACKET ASSY  | FWD                              |             |    | 1   |
| 30       | BACB30ZF4-07 | . BOLT  |                                  |             |    | 1   |
| 35       | AS3485-10    | . NUT   |                                  |             |    | 1   |
|          |              | TIGHTEN BOLTS (30) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). TIGHTEN EXISTING CFMI BOLTS TO 100-112 POUND-INCHES (11.3-12.7 NEWTON METERS).  |                                  |             |    |     |

**71-00-02****P/P BUILDUP FIGURE 8-1**

Page 5

Jun 15/2016

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Bracket Installation - Right Side Core Case  
Figure 8-1 (Sheet 3)

**71-00-02**

**P/P BUILDUP FIGURE 8-1**

Page 6

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 8-1      |             | BRACKET INSTALLATION - RIGHT SIDE CORE CASE<br>(FIGURE 8-1, SHEET 3)<br>THIS SHEET NOT USED |    |     |

**71-00-02****P/P BUILDUP FIGURE 8-1**

Page 7

Jun 15/2016

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Bracket Installation - Right Side Core Case  
Figure 8-1 (Sheet 4)

**71-00-02**

**P/P BUILDUP FIGURE 8-1**

Page 8

Jun 15/2016

D633A106-AKS

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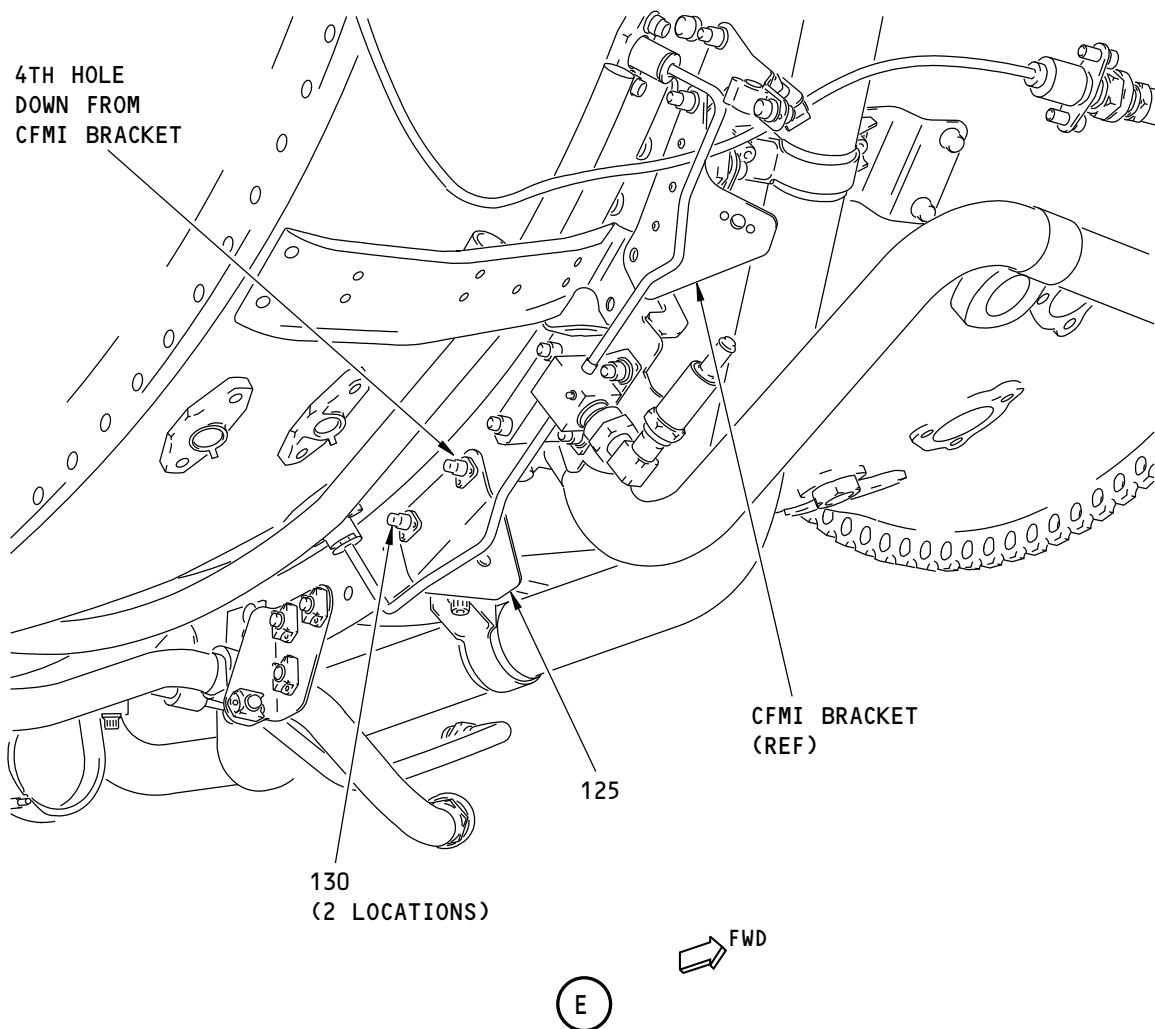
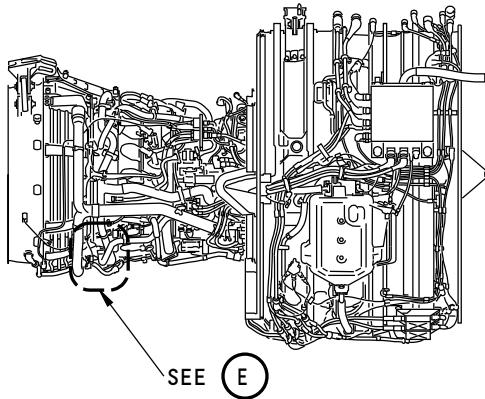
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 8-1      |             | BRACKET INSTALLATION - RIGHT SIDE CORE CASE<br>(FIGURE 8-1, SHEET 4)<br>THIS SHEET NOT USED |    |     |

**71-00-02****P/P BUILDUP FIGURE 8-1**

Page 9

Jun 15/2016

D633A106-AKS



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Bracket Installation - Right Side Core Case  
Figure 8-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 8-1

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | BRACKET LOCATION AND ORIENTATION |             |    | QTY |
|----------|--------------|---|----------------------------------|-------------|----|-----|
|          |              |   | BRKT OR FLG SIDE                 | ANGLE FACES | UC |     |
| 8-1      |              | BRACKET INSTALLATION - RIGHT SIDE<br>CORE CASE<br>(FIGURE 8-1, SHEET 5)<br>ATTACH BRACKET ASSY (125) TO 4TH AND<br>5TH HOLES DOWN FROM CFMI BRACKET<br>(REF) ON FLANGE A8. USE BOLTS (130).<br><br>. BRACKET ASSY<br>. BOLT<br><br>TIGHTEN BOLTS (130) TO 110-120<br>POUND-INCHES (12.4-13.6 NEWTON<br>METERS). |                                  |             |    |     |
| 125      | 332A2911-9   |   | AFT                              | FWD         |    | 1   |
| 130      | BACB30ZF4-06 |   |                                  |             |    | 2   |

**71-00-02****P/P BUILDUP FIGURE 8-1**

Page 11

Jun 15/2016

D633A106-AKS

**FIGURE 9-1**

**DRAINS INSTL - LEFT SIDE FAN CASE**

**REF QEC TASK NO.: 9**

**REF DWG: 332A2100**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

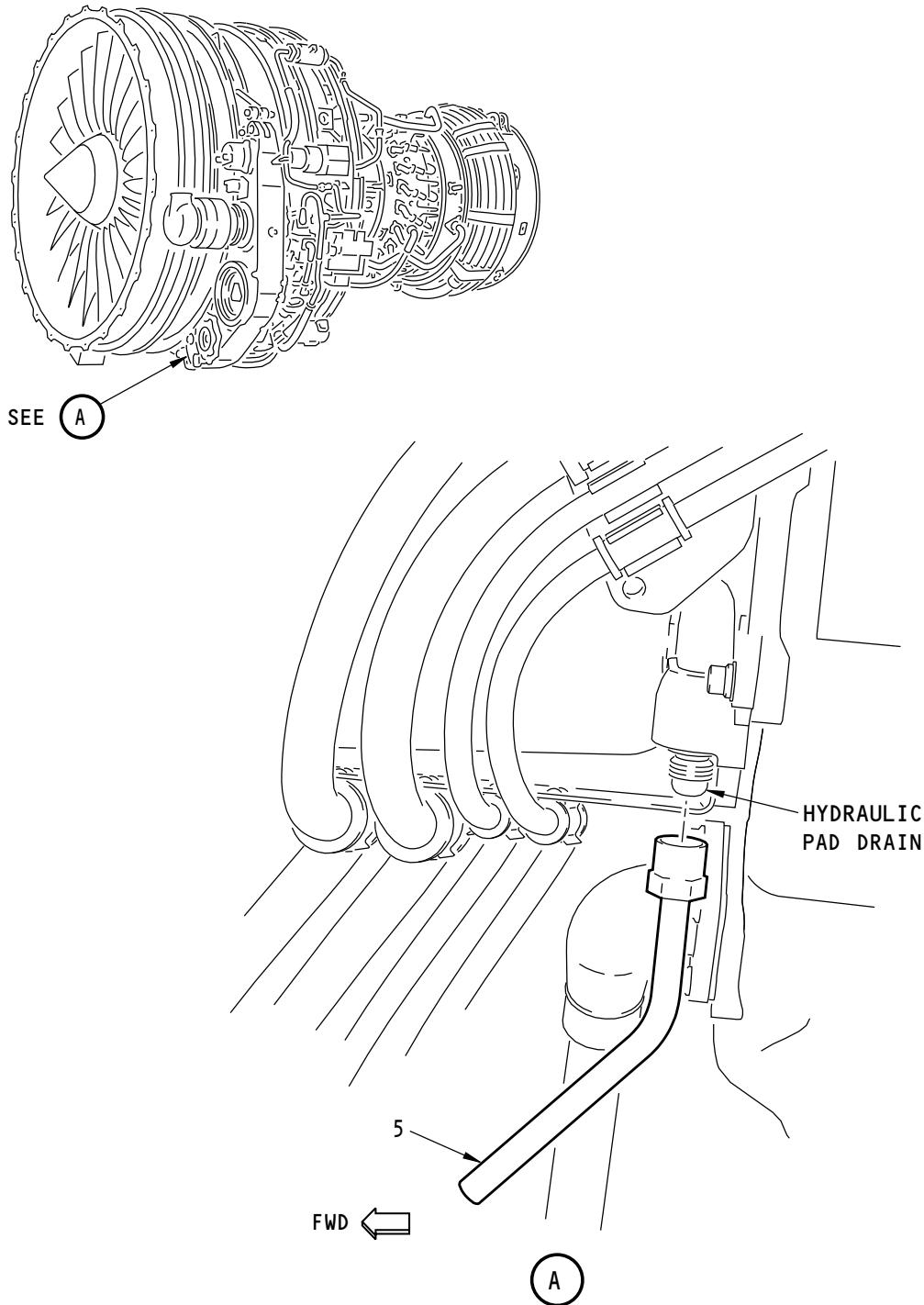
**P/P BUILDUP FIGURE 9-1**

**Page 1**

**Jun 15/2016**

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Drains Installation - Left Side Fan Case  
Figure 9-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 9-1

Page 2

Jun 15/2016

D633A106-AKS

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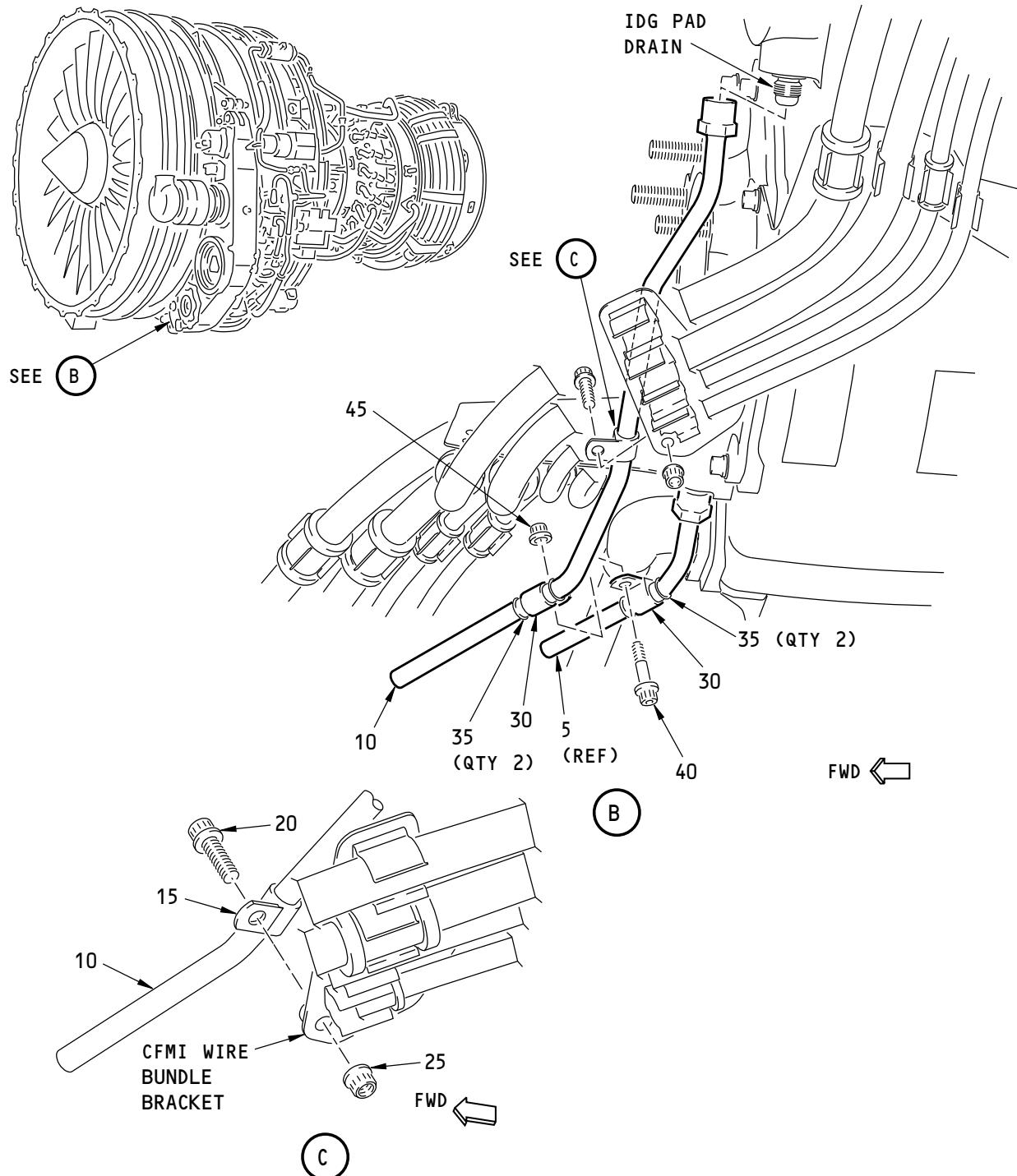
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 9-1      |             | <p><b>DRAINS INSTALLATION - LEFT SIDE FAN CASE (FIGURE 9-1, SHEET 1)</b></p> <p><b>NOTE:</b> IN THIS PROCEDURE, DO NOT TIGHTEN SCREWS AND TUBE OR HOSE NUTS TO THE INDICATED TORQUE UNTIL INSTRUCTED. WHEN TIGHTENING TUBE AND HOSE NUTS, USE TWO WRENCHES; ONE TO HOLD THE SPANNER FLATS ON THE NIPPLE AND ONE TO TIGHTEN THE NUT.</p> <p>TO REDUCE CLAMP DISTORTION UPON INSTALLATION, APPLY Never-Seez NSBT compound, D00006 (C6) TO BOLT HEAD SURFACE THAT COMES INTO CONTACT WITH THE CLAMP. APPLY TO BOLT HEAD UNDERSIDE ONLY. DO NOT APPLY TO BOLT THREADS.</p> <p>REMOVE PROTECTIVE CAP FROM NIPPLE ON HYDRAULIC PAD DRAIN. LUBRICATE THREADS OF NIPPLE WITH grease, D00504 (C1).</p> <p>. GREASE<br/>         . NEVER-SEEZ NSBT-8N COMPOUND<br/>         LOOSELY ATTACH TUBE ASSY (5) TO NIPPLE.<br/>         . TUBE ASSY</p> |     |     |
| C1       | D00504      | . GREASE   | CON | AR  |
| C6       | D00006      | . NEVER-SEEZ NSBT-8N COMPOUND  | CON | AR  |
| 5        | 332A2710-3  | LOOSELY ATTACH TUBE ASSY (5) TO NIPPLE.<br>. TUBE ASSY   |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 9-1**

Page 3

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F23488 S00041153762\_V1

Drains Installation - Left Side Fan Case  
Figure 9-1 (Sheet 2)

**71-00-02**  
**P/P BUILDUP FIGURE 9-1**  
 Page 4  
 Jun 15/2016

D633A106-AKS

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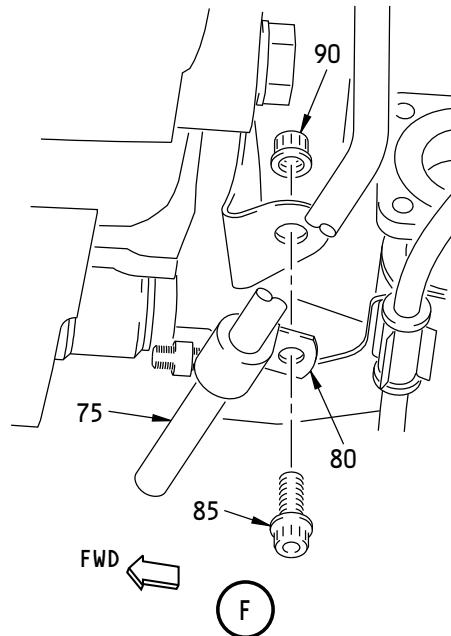
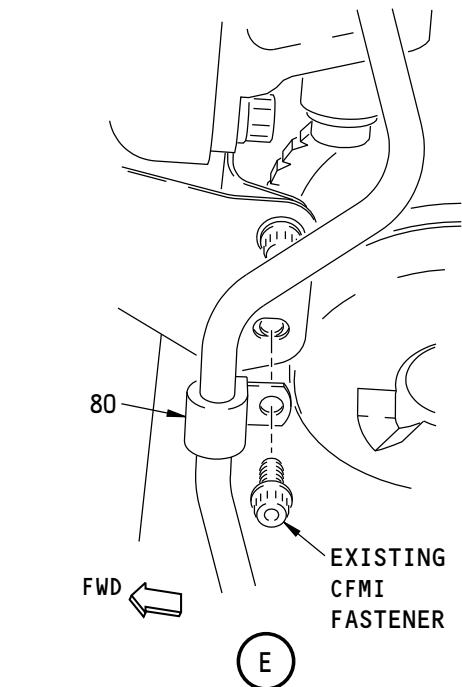
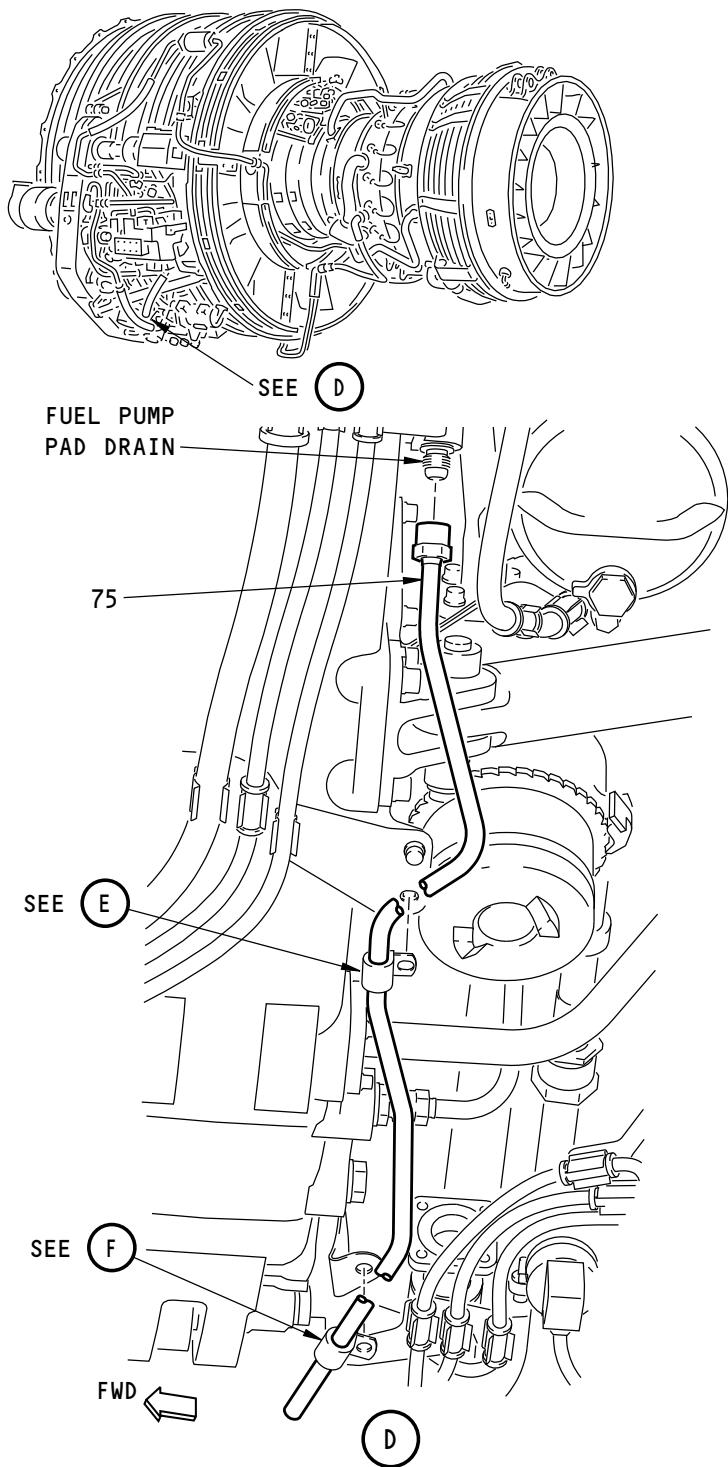
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 9-1      |              | <b>DRAINS INSTALLATION - LEFT SIDE FAN CASE (FIGURE 9-1, SHEET 2)</b>   |     |     |
| C1       | D00504       | REMOVE PROTECTIVE CAP FROM NIPPLE ON IDG PAD DRAIN AND LUBRICATE THREADS OF NIPPLE WITH grease, D00504 (C1).<br>. GREASE  | CON | AR  |
| 10       | 332A2710-1   | ROUTE TUBE ASSY (10) INBOARD OF CFMI WIRE BUNDLE BRACKET AND LOOSELY ATTACH TO NIPPLE.<br>. TUBE ASSY   |     | 1   |
|          |              | APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLT (20). LOOSELY ATTACH TUBE ASSY (10) TO CFMI WIRE BUNDLE BRACKET WITH CLAMP (15), BOLT (20) AND NUT (25).   |     |     |
| 15       | J1221G06     | . CLAMP (V07482)  | VEN | 1   |
| 20       | BACB30ZF4-09 | . BOLT  |     | 1   |
| 25       | AS3485-10    | . NUT   |     | 1   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |
|          |              | APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLT (40). LOOSELY INSTALL FLOATING CLAMPS (30) BETWEEN TUBE ASSY (5) AND (10) AT APPROXIMATE LOCATION SHOWN. USE CLAMPSHELLS (35), BOLT (40) AND NUT (45).   |     |     |
| 30       | J1221G06     | . CLAMP (V07482)  | VEN | 2   |
| 35       | BACC10GT2-06 | . CLAMPSHELL  |     | 4   |
| 35       | 9352M41P03   | . CLAMPSHELL (V83930) (OPTIONAL)  | OPT | -   |
| 40       | BACB30ZF4-08 | . BOLT  |     | 1   |
| 45       | AS3485-10    | . NUT   |     | 1   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |
|          |              | ADJUST TUBE ASSY (5) AND (10) TO BEST POSITION. MAKE SURE PRELOAD AT ALL CLAMP POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS).<br>TIGHTEN TUBE ASSY (5) AND (10) TO 257-284 POUND-INCHES (29.0-32.0 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.<br>TIGHTEN BOLTS (20) AND (40) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). |     |     |

**71-00-02****P/P BUILDUP FIGURE 9-1**

Page 5

Jun 15/2016

D633A106-AKS



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Drains Installation - Left Side Fan Case  
Figure 9-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 9-1

Page 6

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 9-1      |              | DRAINS INSTALLATION - LEFT SIDE FAN CASE<br>(FIGURE 9-1, SHEET 3)  |     |     |
| C1       | D00504       | REMOVE PROTECTIVE CAP FROM NIPPLE ON FUEL PUMP PAD<br>DRAIN AND LUBRICATE THREADS OF NIPPLE WITH grease,<br>D00504 (C1).   | CON | AR  |
| 75       | 332A2710-36  | . GREASE<br>LOOSELY ATTACH TUBE ASSY (75) TO NIPPLE.<br>. TUBE ASSY<br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006<br>(C6) TO UNDERSIDE HEAD OF BOLT (85). AT 2 LOCATIONS,<br>LOOSELY ATTACH TUBE ASSY (75) TO ENGINE BRACKETS ON<br>AFT SIDE OF AGB. USE CLAMP (80) AND EXISTING CFMI<br>FASTENERS AT UPPER LOCATION AND CLAMP (80), BOLT (85)<br>AND NUT (90) AT LOWER LOCATION.         |     | 1   |
| 80       | J1221G06     | . CLAMP (V07482)   | VEN | 2   |
| 85       | BACB30ZF4-08 | . BOLT   |     | 1   |
| 90       | AS3485-10    | . NUT  |     | 1   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br>ADJUST TUBE ASSY (75) TO BEST POSITION. MAKE SURE<br>PRELOAD AT ALL CLAMP POINTS IS NOT MORE THAN 10 POUNDS<br>(44.5 NEWTONS).<br>TIGHTEN TUBE ASSY (75) TO 257-284 POUND-INCHES (29.0-32.0<br>NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN<br>RETIGHTEN.<br>TIGHTEN BOLT (85) AND EXISTING CFMI FASTENER TO 110-120<br>POUND-INCHES (12.4-13.6 NEWTON METERS). | CON | AR  |

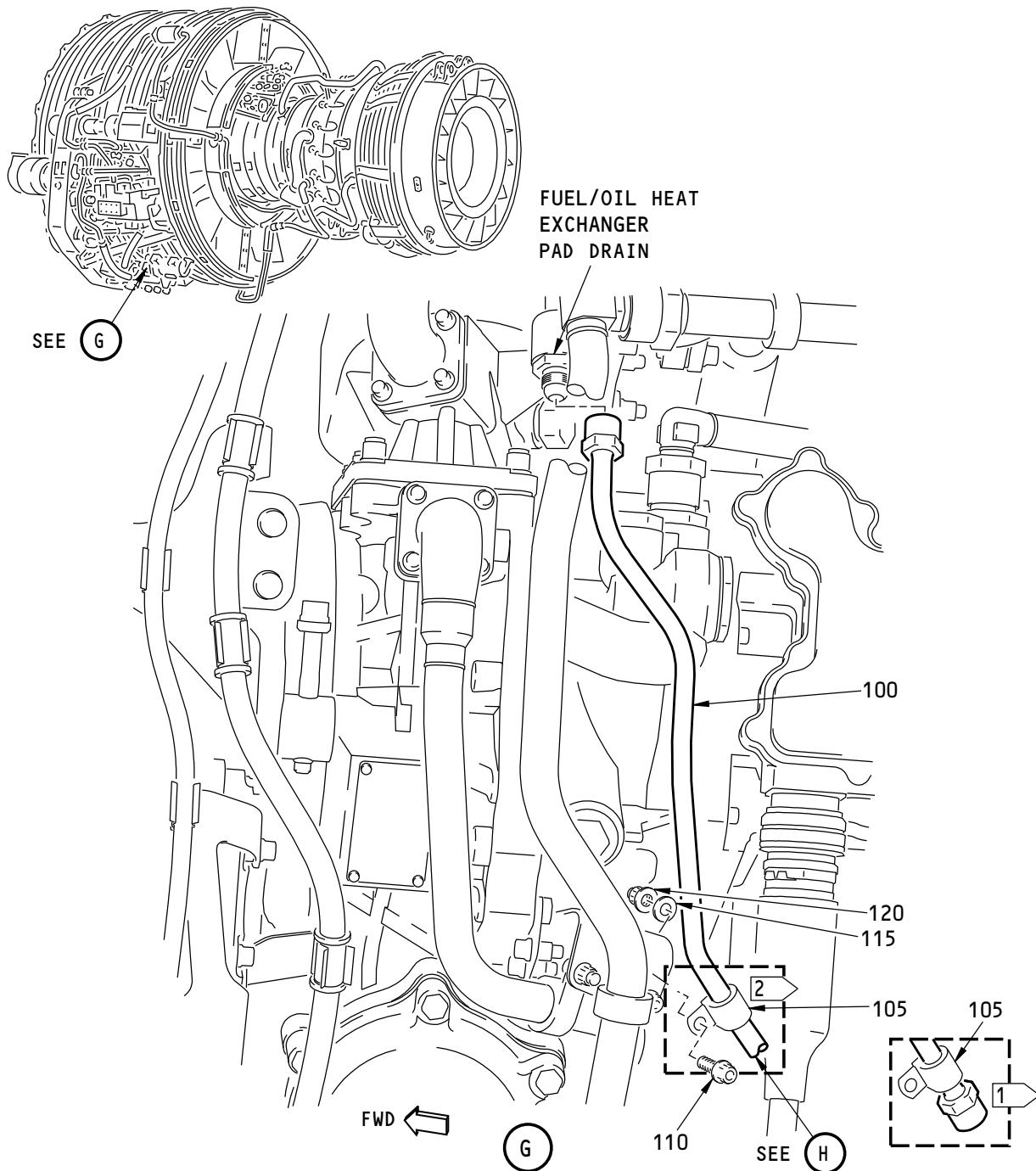
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P/P BUILDUP FIGURE 9-1

Page 7

Jun 15/2016

D633A106-AKS



1 ENGINES WITH 332A2710-30 TUBE ASSEMBLY (100) (OPTIONAL)

2 ENGINES WITH 332A2710-38 TUBE ASSEMBLY (100) (PREFERRED)

F23727 S00041153764\_V1

Drains Installation - Left Side Fan Case  
Figure 9-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 9-1

Page 8

Jun 15/2016

D633A106-AKS

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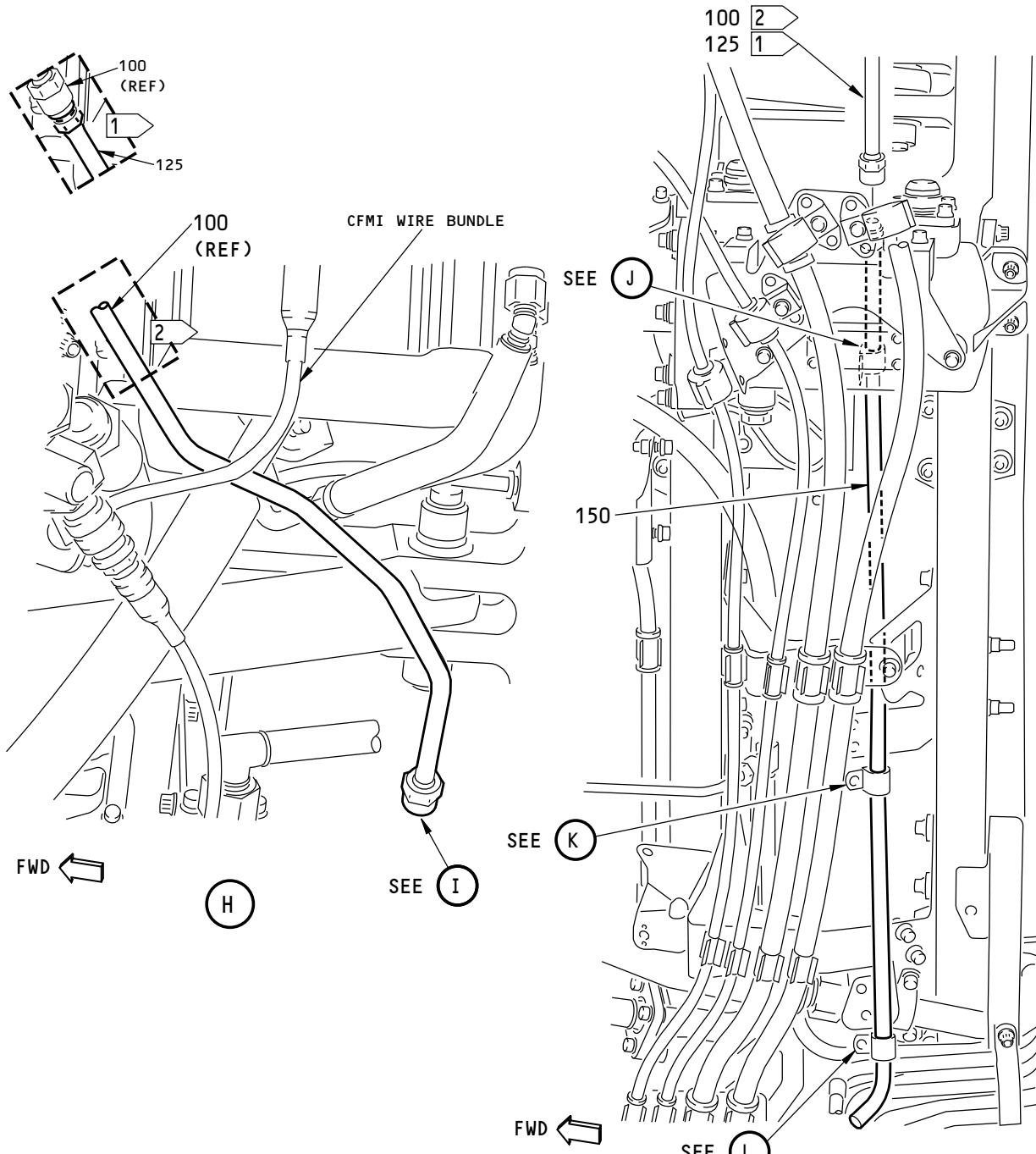
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 9-1      |               | <b>DRAINS INSTALLATION - LEFT SIDE FAN CASE (FIGURE 9-1, SHEET 4)</b><br><br><u>NOTE:</u> DUE TO LIMITED ACCESS, IT IS RECOMMENDED IDG AIR/ OIL COOLER INSTALLATION/Figure 23-1 IDG AIR/OIL COOLER INSTALLATION AND IDG PLUMBING INSTALLATION/Figure 24-1 IDG PLUMBING INSTALLATION BE INSTALLED AT THIS TIME.<br><br>REMOVE PROTECTIVE CAP FROM NIPPLE ON FUEL/OIL HEAT EXCHANGER PAD DRAIN AND LUBRICATE THREADS OF NIPPLE WITH grease, D00504 (C1).<br><br>. GREASE |     |     |
| C1       | D00504        | <u>PREFERRED CONFIGURATION - ENGINES WITH 332A2710-38 TUBE ASSY (100):</u><br><br>ROUTE TUBE ASSY (100) UNDER CFMI WIRE BUNDLE (REF SHEET 5) AND LOOSELY ATTACH TUBE ASSY (100) TO NIPPLE.<br><br><u>OPTIONAL CONFIGURATION - ENGINES WITH 332A2710-30 TUBE ASSY (100):</u><br><br>LOOSELY ATTACH TUBE ASSY (100) TO NIPPLE.   | CON | AR  |
| 100      | 332A2710-38   | . TUBE ASSY* <sup>[1]</sup>  |     | 1   |
| 100      | 332A2710-30   | . TUBE ASSY* <sup>[1]</sup>  | OPT | -   |
|          |               | APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLT (110). LOOSELY ATTACH TUBE ASSY (100) TO ENGINE BRACKET JUST ABOVE FUEL FILTER. USE CLAMP (105), BOLT (110), WASHER (115) AND NUT (120).  |     |     |
| 105      | J1221G06      | . CLAMP (V07482)   | VEN | 1   |
| 110      | BACB30ZF4-08  | . BOLT   |     | 1   |
| 115      | NAS1149E0432P | . WASHER   |     | 1   |
| 120      | AS3485-10     | . NUT  |     | 1   |
| C6       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>ADJUST TUBE ASSY (100) TO BEST POSITION. MAKE SURE PRELOAD AT ALL CLAMP POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS).<br><br>TIGHTEN TUBE ASSY (100) TO HAND TIGHT.   | CON | AR  |
|          |               | *[1] 332A2710-30 TUBE ASSY (100) TOGETHER WITH 332A2710-11 TUBE ASSY (125) OPTIONAL TO 332A2710-38 TUBE ASSY (100). ENGINES WITH 332A2710-38 TUBE ASSY (100) DO NOT REQUIRE TUBE (125).  |     |     |

**71-00-02****P/P BUILDUP FIGURE 9-1**

Page 9

Jun 15/2016

D633A106-AKS



1 ENGINES WITH 332A2710-30 TUBE ASSEMBLY (100) (OPTIONAL)

2 ENGINES WITH 332A2710-38 TUBE ASSEMBLY (100) (PREFERRED)

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## Drains Installation - Left Side Fan Case Figure 9-1 (Sheet 5)

**71-00-02**

## P/P BUILDUP FIGURE 9-1

Page 10

Page 10  
Jun 15/2016

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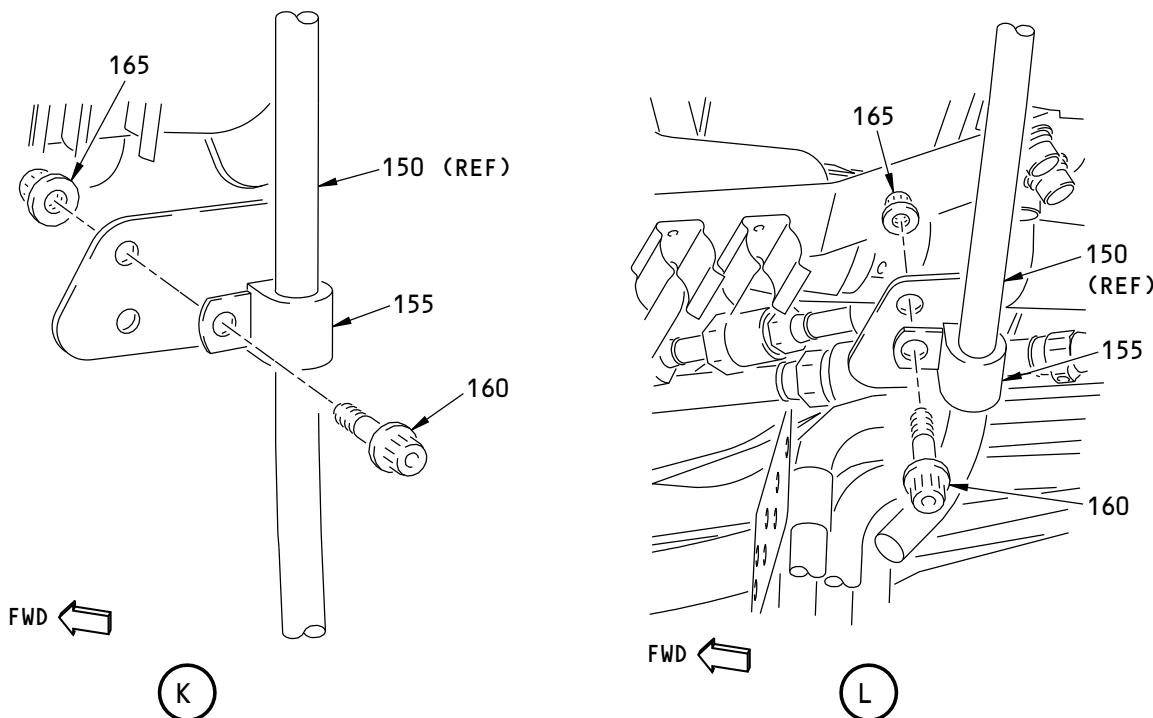
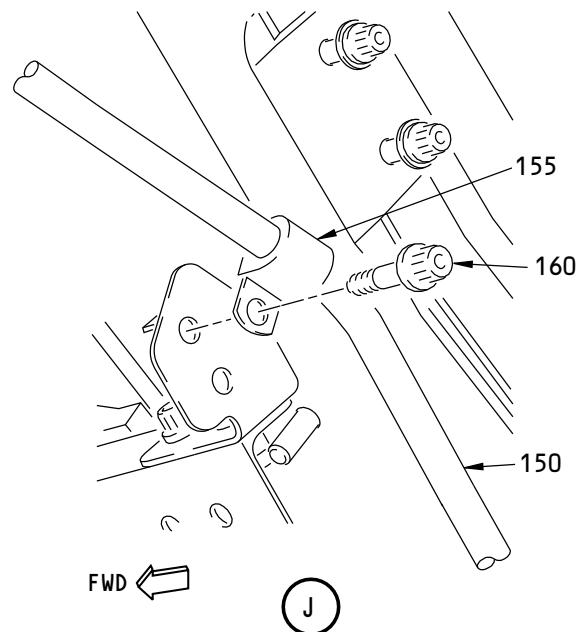
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC      | QTY  |
|----------|-------------|--|---------|------|
| 9-1      |             | <b>DRAINS INSTALLATION - LEFT SIDE FAN CASE<br/>(FIGURE 9-1, SHEET 5)</b><br><br><u>ENGINES WITH 332A2710-30 TUBE ASSY (100):</u><br>LUBRICATE THREADS OF TUBE ASSY (125) WITH grease, D00504 (C1). ROUTE TUBE ASSY (125) UNDER CFMI WIRE BUNDLE AND LOOSELY ATTACH TO 332A2710-30 TUBE ASSY (100).<br><br>125      332A2710-11<br>C1      D00504<br>. TUBE ASSY <sup>[1]</sup><br>. GREASE<br><br>LUBRICATE THREADS OF TUBE ASSY (150) WITH grease, D00504 (C1). ROUTE TUBE ASSY (150) BEHIND FUEL/OIL COOLER AND UNDER CFMI WIRE BUNDLE BRACKETS AND LOOSELY ATTACH TO 332A2710-38 TUBE ASSY (100) OR TUBE ASSY (125).<br><br>150      332A2710-13<br>C1      D00504<br>. TUBE ASSY<br>. GREASE<br><br>*[1] 332A2710-30 TUBE ASSY (100) TOGETHER WITH 332A2710-11 TUBE ASSY (125) OPTIONAL TO 332A2710-38 TUBE ASSY (100). ENGINES WITH 332A2710-38 TUBE ASSY (100) DO NOT REQUIRE TUBE (125). |         |      |
|          |             |  | OPT CON | - AR |
|          |             |  | CON     | 1 AR |

**71-00-02****P/P BUILDUP FIGURE 9-1**

Page 11

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

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Drains Installation - Left Side Fan Case  
Figure 9-1 (Sheet 6)

**71-00-02**  
**P/P BUILDUP FIGURE 9-1**  
 Page 12  
 Jun 15/2016

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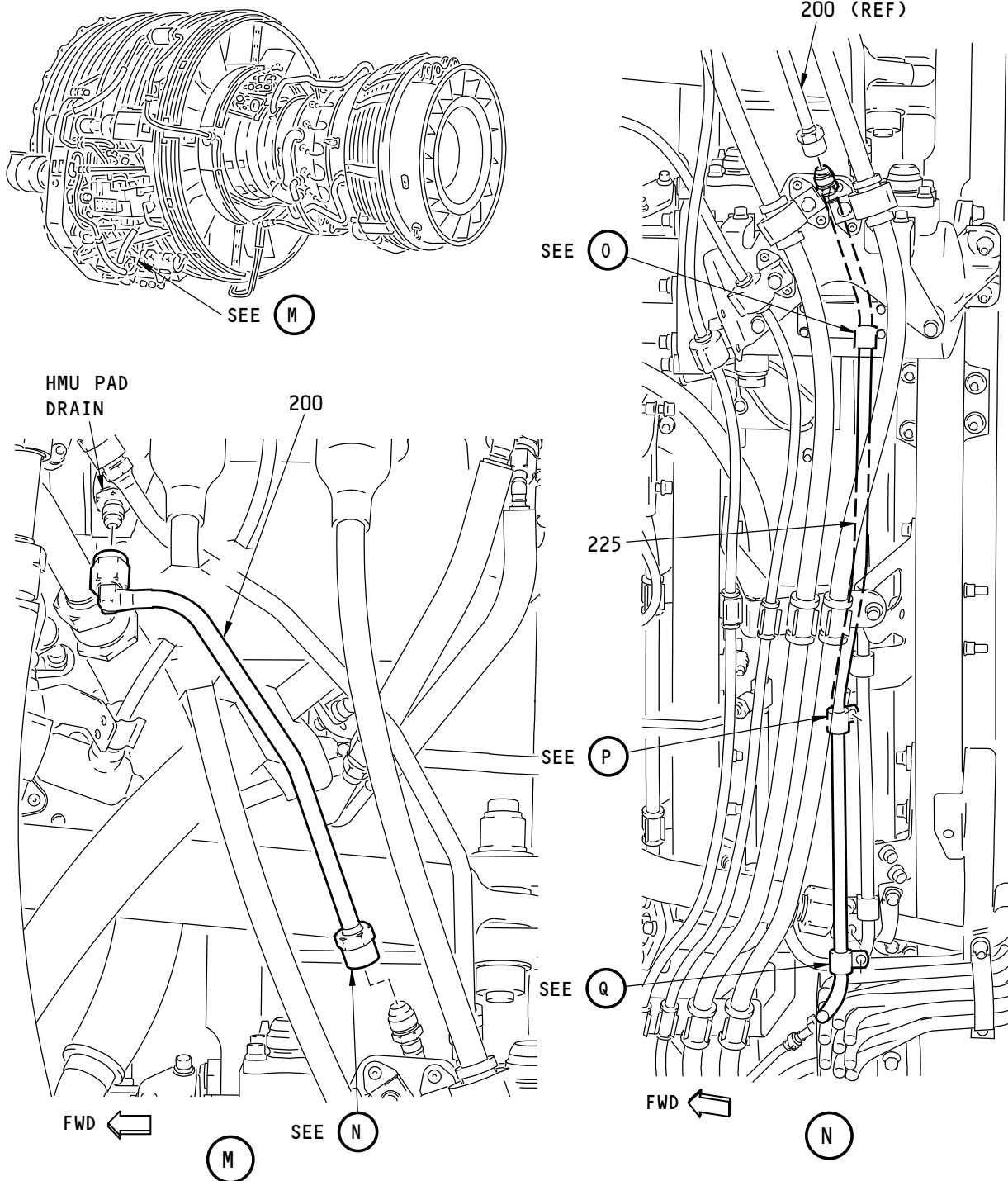
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 9-1      |              | <b>DRAINS INSTALLATION - LEFT SIDE FAN CASE (FIGURE 9-1, SHEET 6)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLTS (160). AT 3 LOCATIONS, ATTACH TUBE (150) TO ENGINE BRACKETS. USE CLAMP (155) AND BOLT (160) AT UPR LOCATION AND CLAMPS (155), BOLTS (160) AND NUTS (165) AT LWR LOCATIONS.  |     |     |
| 155      | J1221G06     | . CLAMP (V07482)   | VEN | 3   |
| 160      | BACB30ZF4-08 | . BOLT   |     | 3   |
| 165      | AS3485-10    | . NUT  |     | 2   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>ADJUST TUBE ASSY (100), (125) (IF USED) AND (150) TO BEST POSITION. MAKE SURE PRELOAD AT ALL CLAMP POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS).<br><br>TIGHTEN TUBE ASSY (100), (125) (IF USED) AND (150) TO 257-284 POUND-INCHES (29.0-32.0 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.<br><br>TIGHTEN BOLTS (110) AND (160) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 9-1**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F24061 S00041153767\_V1

Drains Installation - Left Side Fan Case  
Figure 9-1 (Sheet 7)

**71-00-02**  
**P/P BUILDUP FIGURE 9-1**  
 Page 14  
 Jun 15/2016

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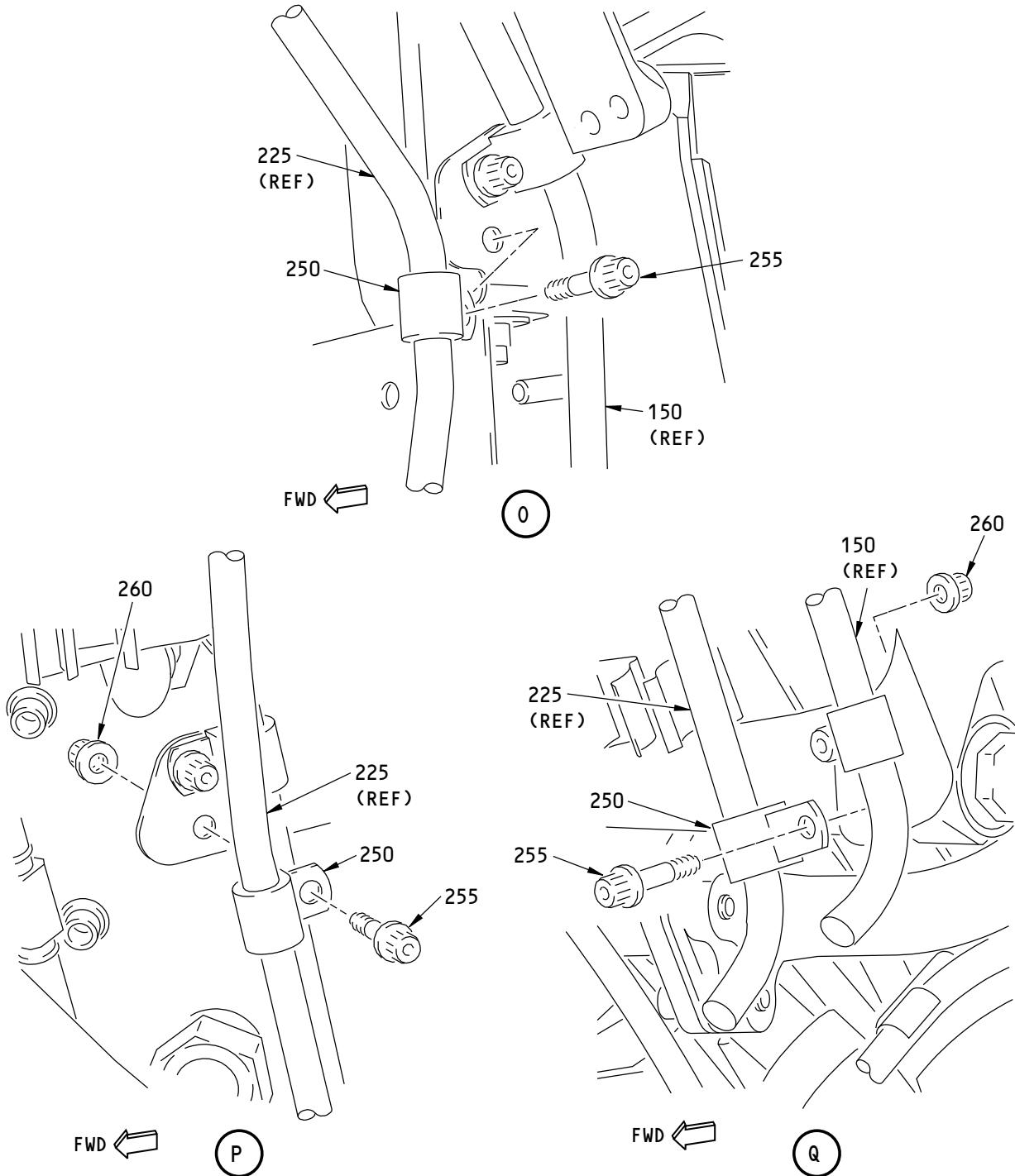
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 9-1      |             | <b>DRAINS INSTALLATION - LEFT SIDE FAN CASE (FIGURE 9-1, SHEET 7)</b>  |     |     |
| C1       | D00504      | REMOVE PROTECTIVE CAP FROM NIPPLE ON HMU PAD DRAIN AND LUBRICATE THREADS OF NIPPLE WITH grease, D00504 (C1).<br>. GREASE               | CON | AR  |
| 200      | 332A2710-15 | LOOSELY ATTACH TUBE ASSY (200) TO NIPPLE.<br>. TUBE ASSY   |     | 1   |
| C1       | D00504      | LUBRICATE THREADS OF TUBE ASSY (225) WITH grease, D00504 (C1).<br>. GREASE   | CON | AR  |
| 225      | 332A2710-27 | ROUTE TUBE ASSY (225) BEHIND FUEL/OIL COOLER AND UNDER CFMI WIRE BUNDLE BRACKETS AND LOOSELY ATTACH TO TUBE ASSY (200).<br>. TUBE ASSY |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 9-1**

Page 15

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F24108 S00041153768\_V1

Drains Installation - Left Side Fan Case  
Figure 9-1 (Sheet 8)

71-00-02

P/P BUILDUP FIGURE 9-1

Page 16

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 9-1      |              | <b>DRAINS INSTALLATION - LEFT SIDE FAN CASE<br/>(FIGURE 9-1, SHEET 8)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLTS (255). AT 3 LOCATIONS, ATTACH TUBE ASSY (225) TO ENGINE BRACKETS. USE CLAMP (250) AND BOLT (255) AT UPR LOCATION AND CLAMPS (250), BOLTS (255) AND NUTS (260) AT LWR LOCATIONS.  |     |     |
| 250      | J1221G06     | . CLAMP (V07482)  | VEN | 3   |
| 255      | BACB30ZF4-08 | . BOLT  |     | 3   |
| 260      | AS3485-10    | . NUT   |     | 2   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>ADJUST TUBES ASSY (200) AND (225) TO BEST POSITION. MAKE SURE PRELOAD AT ALL CLAMP POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS).<br><br>TIGHTEN TUBE ASSY (200) AND (225) TO 257-284 POUND-INCHES (29.0-32.0 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.<br><br>TIGHTEN BOLTS (255) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). | CON | AR  |

**71-00-02**

**P/P BUILDUP FIGURE 9-1**

Page 17

Jun 15/2016

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**FIGURE 10-1**

**DRAINS INSTL - RIGHT SIDE FAN CASE**

**REF QEC TASK NO.: 10**

**REF DWG: 332A2100**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

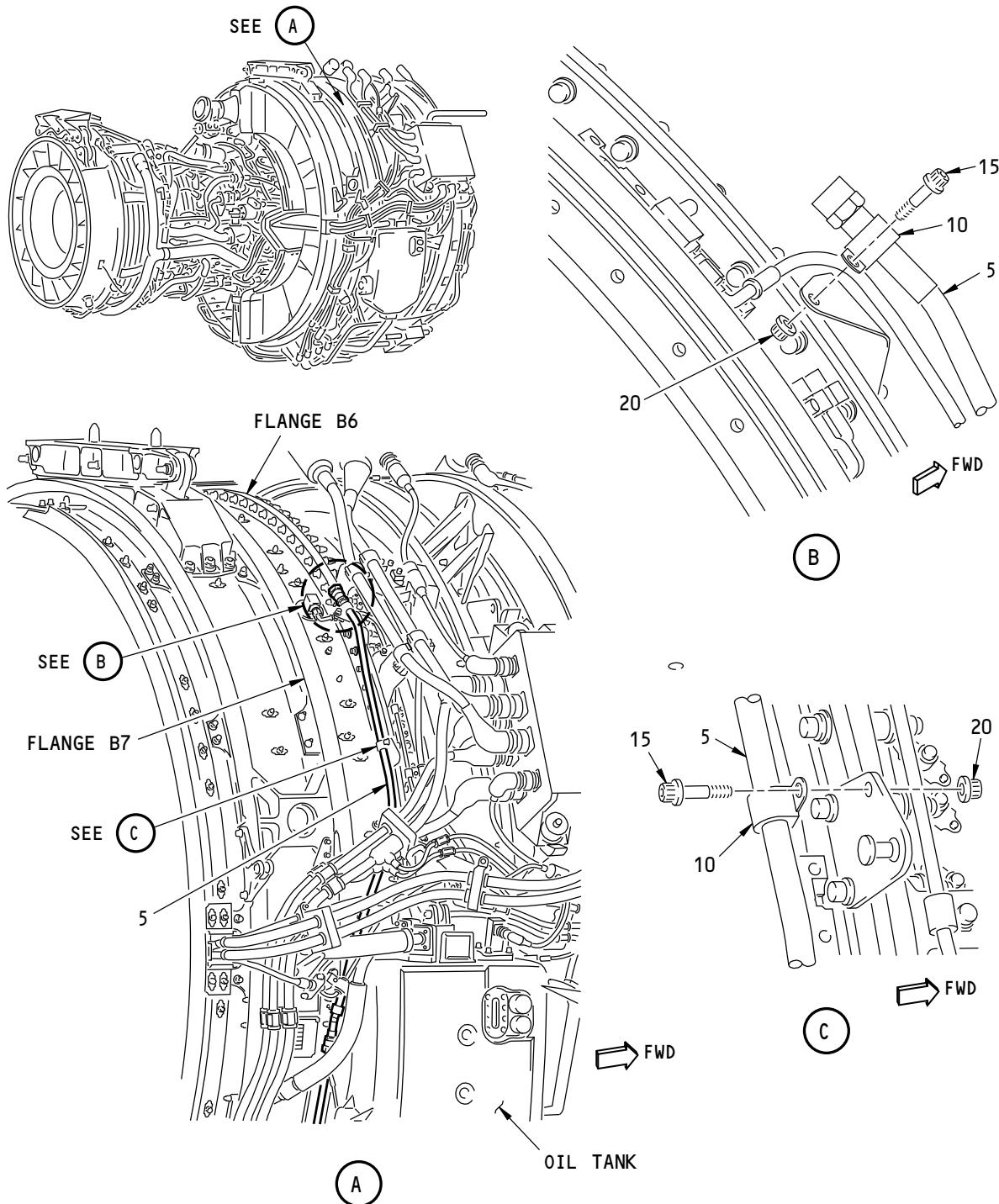
**P/P BUILDUP FIGURE 10-1**

Page 1

Jun 15/2016

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Drains Installation - Right Side Fan Case  
Figure 10-1 (Sheet 1)71-00-02  
P/P BUILDUP FIGURE 10-1

Page 2

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 10-1     |              | DRAINS INSTALLATION - RIGHT SIDE FAN CASE<br>(FIGURE 10-1, SHEET 1)<br><br><u>NOTE:</u> IN THIS PROCEDURE, DO NOT TIGHTEN SCREWS AND TUBE OR HOSE NUTS TO THE INDICATED TORQUE UNTIL INSTRUCTED. WHEN TIGHTENING TUBE AND HOSE NUTS, USE TWO WRENCHES; ONE TO HOLD THE SPANNER FLATS ON THE NIPPLE AND ONE TO TIGHTEN THE NUT.<br><br>TO REDUCE CLAMP DISTORTION UPON INSTALLATION, APPLY Never-Seez NSBT compound, D00006 (C6) TO BOLT HEAD SURFACE THAT COMES INTO CONTACT WITH THE CLAMP. APPLY TO BOLT HEAD UNDERSIDE ONLY. DO NOT APPLY TO BOLT THREADS. |     |     |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>POSITION TUBE ASSY (5) ON ENGINE FAN CASE AT 1 AND 3 O'CLOCK POSITIONS BETWEEN FLANGES B6 AND B7.<br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLTS (15). LOOSELY ATTACH TUBE ASSY (5) AT TOP TWO LOCATIONS TO ENGINE BRACKETS WITH CLAMPS (10), BOLTS (15) AND NUTS (20). MAKE SURE UPPER CLAMP (10) IS INSTALLED BETWEEN MARKS ON TUBE ASSY (5).  | CON | AR  |
| 5        | 332A2710-43  | . TUBE ASSY   |     | 1   |
| 5        | 332A2710-42  | . TUBE ASSY (REPLACED BY 332A2710-43)   | LTD | -   |
| 5        | 332A2710-32  | . TUBE ASSY (REPLACED BY 332A2710-42)   | LTD | -   |
| 10       | J1221G08     | . CLAMP (V07482)  | VEN | 2   |
| 15       | BACB30ZF4-08 | . BOLT  |     | 2   |
| 20       | AS3485-10    | . NUT   |     | 2   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>ADJUST TUBE ASSY (5) TO BEST POSITION. MAKE SURE PRELOAD ON ALL CLAMP POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS).<br><br>TIGHTEN BOLTS (15) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).<br><br>INSTALL PROTECTIVE CAP ON UPPER END OF TUBE ASSY (5).  | CON | AR  |

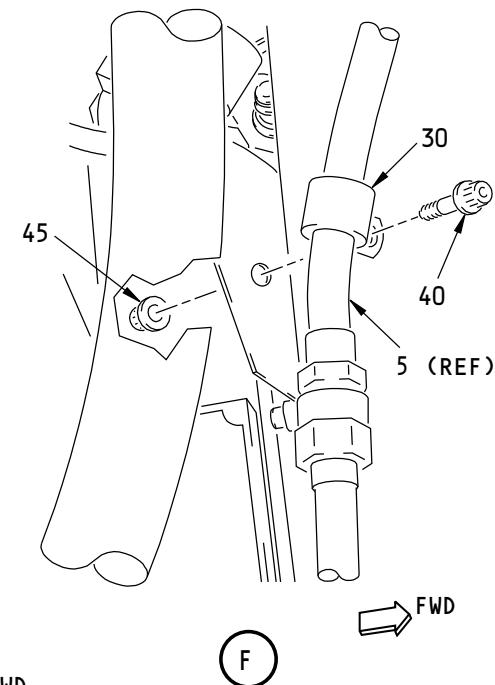
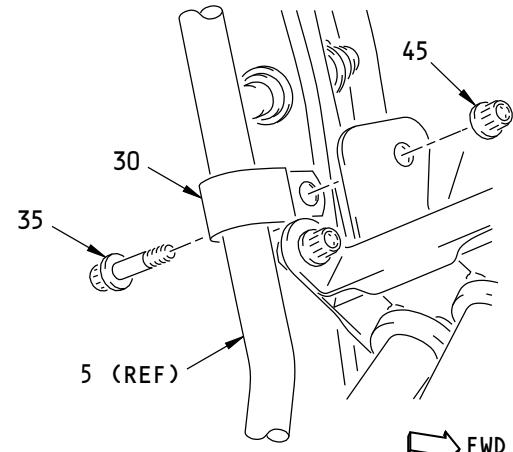
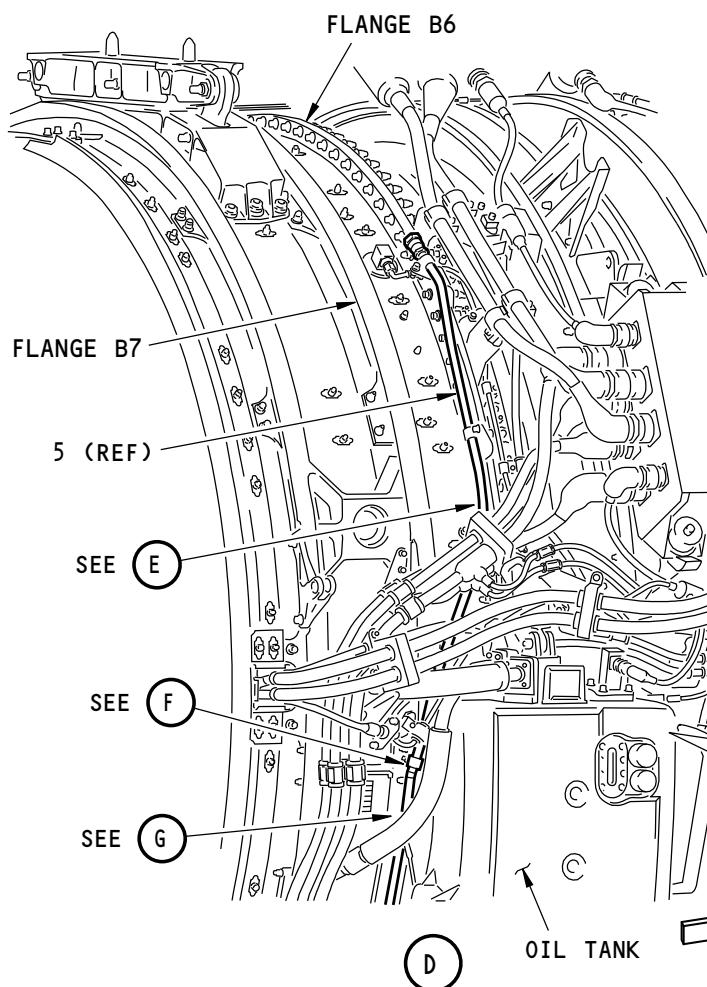
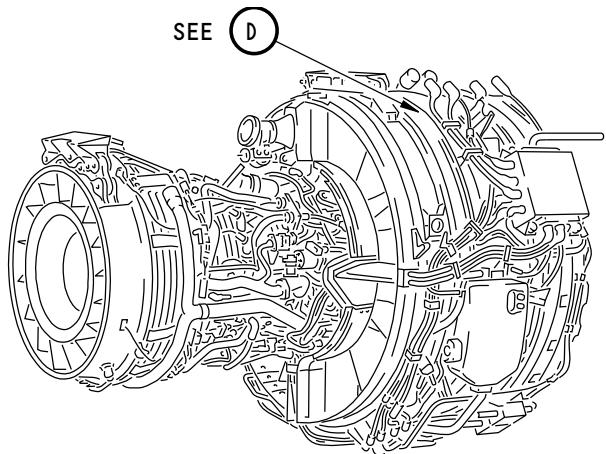
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P/P BUILDUP FIGURE 10-1

Page 3

Jun 15/2016

D633A106-AKS



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Drains Installation - Right Side Fan Case  
Figure 10-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 10-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 10-1     |              | <b>DRAINS INSTALLATION - RIGHT SIDE FAN CASE<br/>(FIGURE 10-1, SHEET 2)</b><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLTS (35, 40). LOOSELY ATTACH TUBE ASSY (5) WITH CLAMP (30), BOLT (35) AND NUT (45) AT UPPER LOCATION AND CLAMP (30), BOLT (40) AND NUT (45) AT LOWER LOCATION. |     |     |
| 30       | J1221G08     | . CLAMP (V07482)  | VEN | 2   |
| 35       | BACB30ZF4-08 | . BOLT  |     | 1   |
| 40       | BACB30ZF4-07 | . BOLT  |     | 1   |
| 45       | AS3485-10    | . NUT   |     | 2   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br>TIGHTEN BOLT (35) AND (40) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  | CON | AR  |

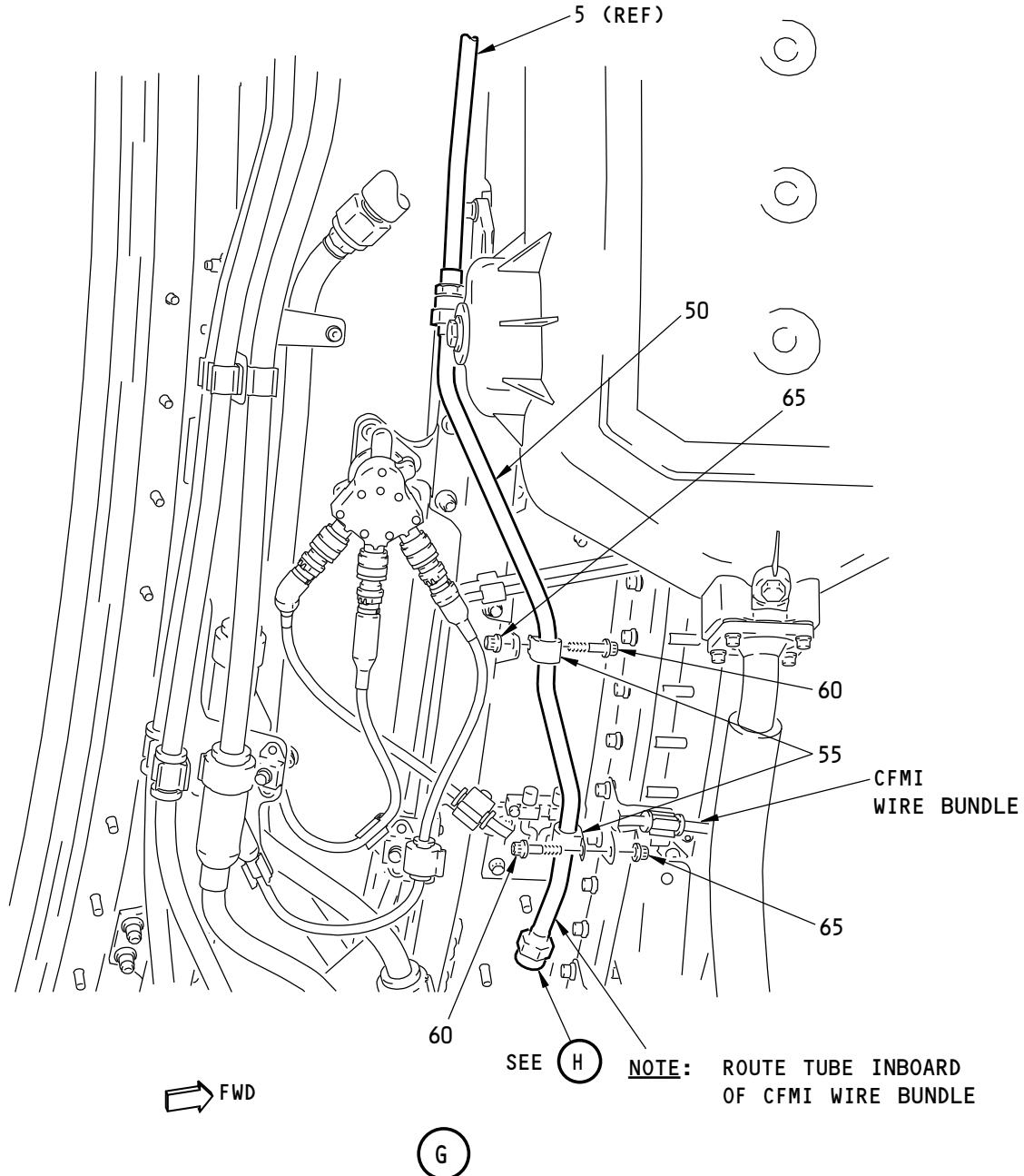
**71-00-02****P/P BUILDUP FIGURE 10-1**

Page 5

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
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Drains Installation - Right Side Fan Case  
Figure 10-1 (Sheet 3)

**71-00-02**  
**P/P BUILDUP FIGURE 10-1**  
 Page 6  
 Jun 15/2016

D633A106-AKS

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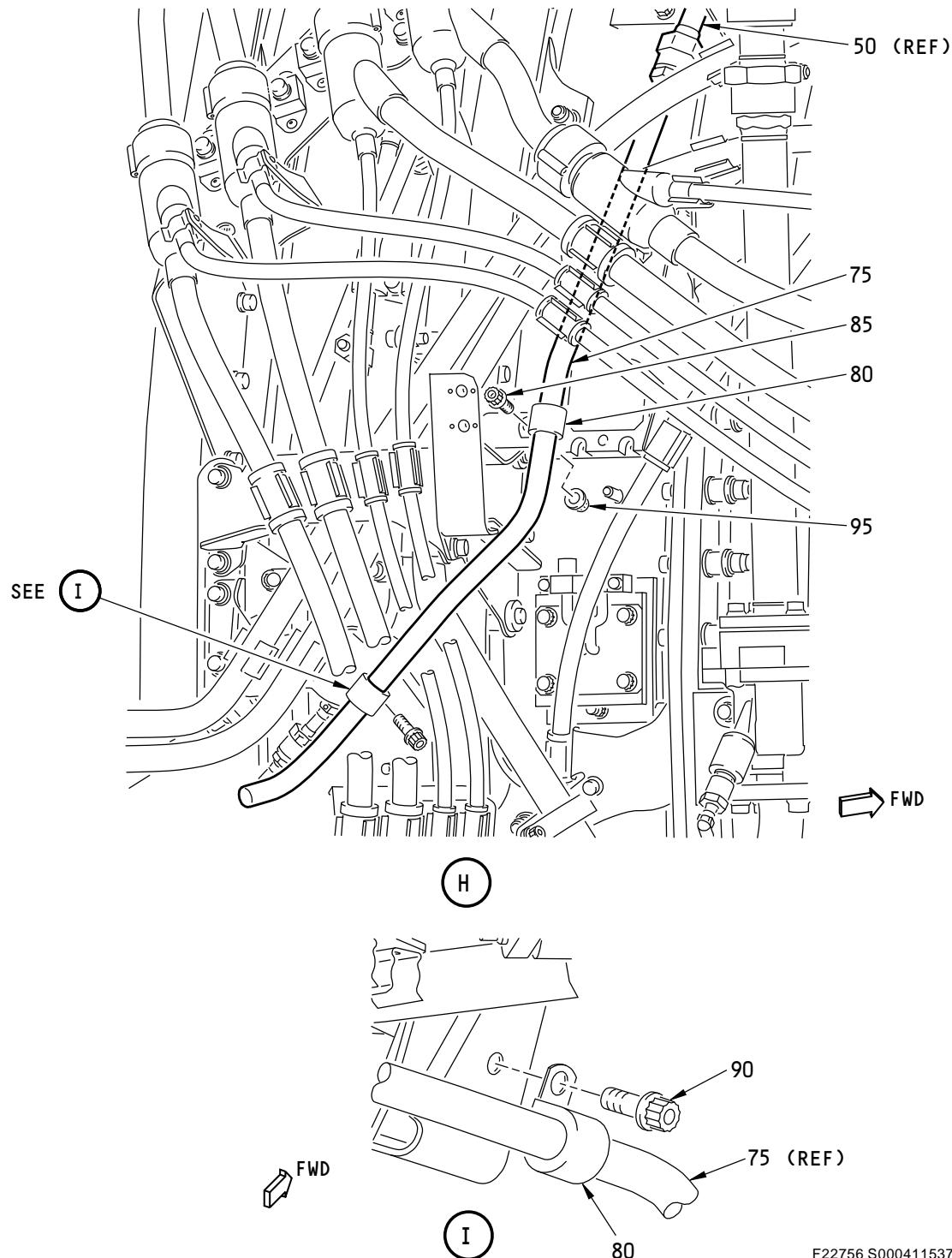
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 10-1     |              | <b>DRAINS INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 10-1, SHEET 3)</b><br><br>LUBRICATE THREADS OF TUBE ASSY (5) WITH grease, D00504(C1). ALIGN TUBE ASSY (50) ON ENGINE FAN CASE AND LOOSELY CONNECT TO TUBE ASSY (5).<br><br><b>NOTE:</b> ROUTE TUBE ASSY (50) INBOARD OF CFMI WIRE BUNDLE.                                   |     |     |
| 50       | 332A2710-33  | . TUBE ASSY  |     | 1   |
| C1       | D00504       | . GREASE   | CON | AR  |
|          |              | APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLTS (60). LOOSELY SECURE TUBE ASSY (50) TO ENGINE BRACKETS AT 2 LOCATIONS WITH CLAMPS (55), BOLTS (60) AND NUTS (65).  |     |     |
| 55       | J1221G08     | . CLAMP (V07482)   | VEN | 2   |
| 60       | BACB30ZF4-07 | . BOLT   |     | 2   |
| 65       | AS3485-10    | . NUT  |     | 2   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND  | CON | AR  |
|          |              | TIGHTEN TUBE ASSY (50) TO 475-525 POUND-INCHES (53.7-59.3 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.<br><br>ADJUST TUBE ASSY (50) TO BEST POSITION. MAKE SURE PRELOAD AT CLAMP POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS).<br><br>TIGHTEN BOLTS (60) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). |     |     |

**71-00-02****P/P BUILDUP FIGURE 10-1**

Page 7

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Drains Installation - Right Side Fan Case  
Figure 10-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 10-1

Page 8

Jun 15/2016

D633A106-AKS

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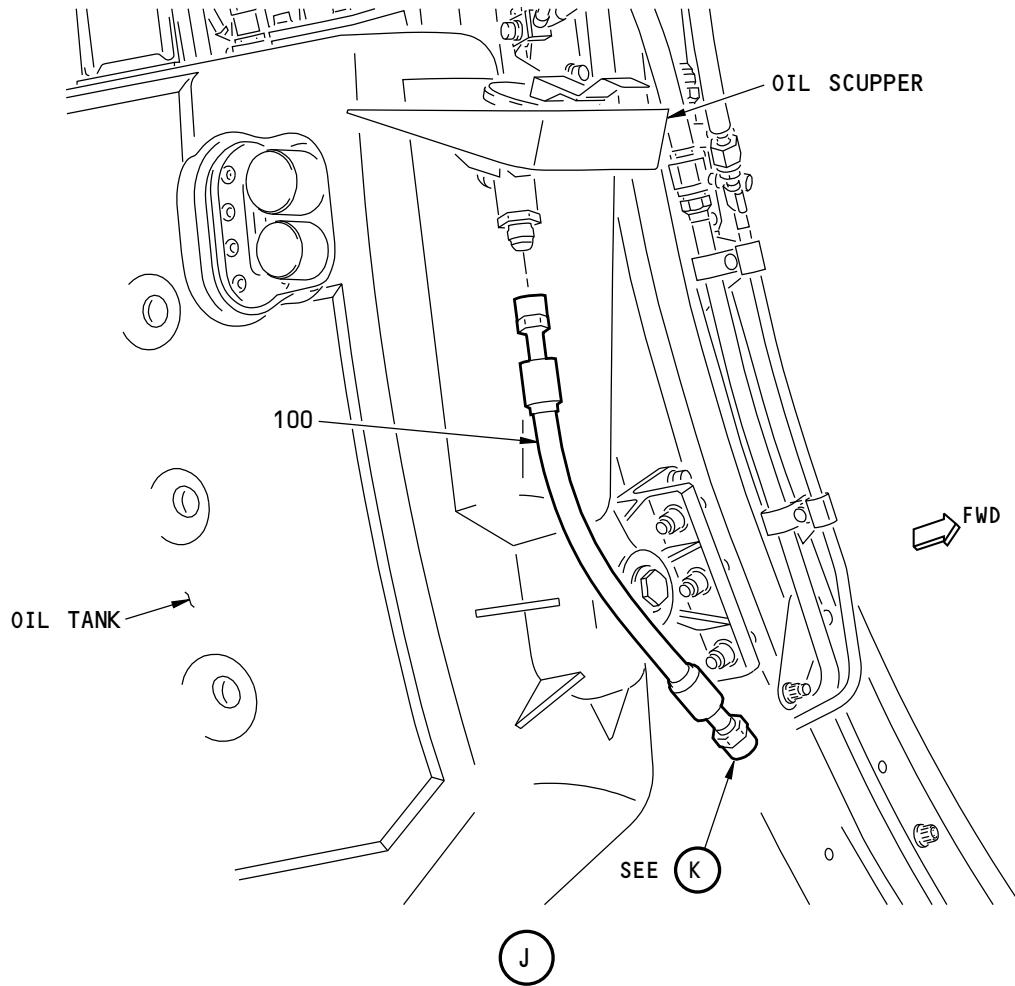
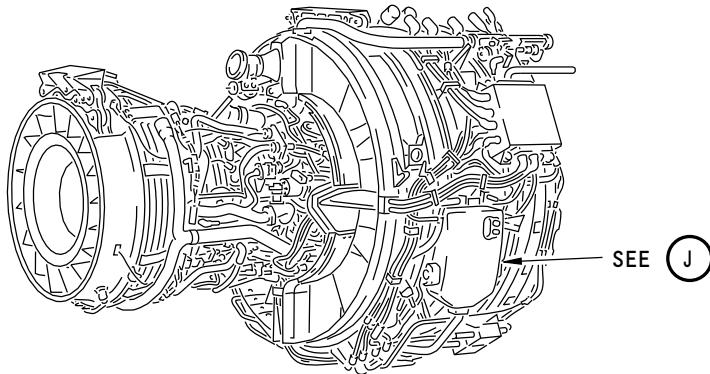
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 10-1     |              | <b>DRAINS INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 10-1, SHEET 4)</b><br><br>LUBRICATE THREADS OF TUBE ASSY (50) WITH grease, D00504 (C1). POSITION TUBE ASSY (75) UNDER CFMI WIRE BUNDLES AND BRACKETS AND LOOSELY CONNECT TO TUBE ASSY (50).   |     |     |
| 75       | 332A2710-31  | . TUBE ASSY  |     | 1   |
| C1       | D00504       | . GREASE   | CON | AR  |
|          |              | APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLTS (85, 90). LOOSELY ATTACH TUBE ASSY (75) AT TWO LOCATIONS TO ENGINE BRACKETS WITH CLAMPS (80), BOLTS (85, 90) AND NUT (95).   |     |     |
| 80       | J1221G08     | . CLAMP (V07482)   | VEN | 2   |
| 85       | BACB30ZF4-07 | . BOLT   |     | 1   |
| 90       | BACB30ZF4-07 | . BOLT   |     | 1   |
| 95       | AS3485-10    | . NUT  |     | 1   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN TUBE ASSY (75) TO 475-525 POUND-INCHES (53.7-59.3 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.<br><br>ADJUST TUBE ASSY (75) TO BEST POSITION. MAKE SURE PRELOAD AT ALL CLAMP POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS).<br><br>TIGHTEN BOLT (85) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).<br><br>TIGHTEN BOLT (90) TO 62-72 POUND-INCHES (7.0-8.1 NEWTON METERS). | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 10-1**

Page 9

Jun 15/2016

D633A106-AKS



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**Drains Installation - Right Side Fan Case**  
**Figure 10-1 (Sheet 5)**

**71-00-02****P/P BUILDUP FIGURE 10-1**

Page 10

Jun 15/2016

D633A106-AKS

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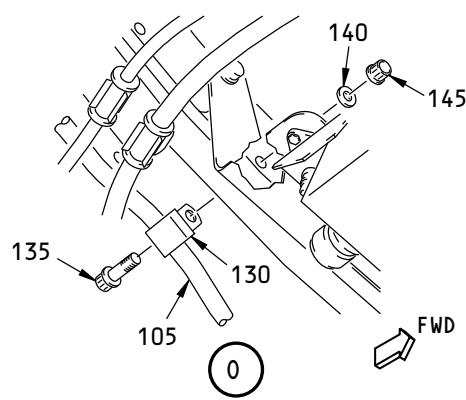
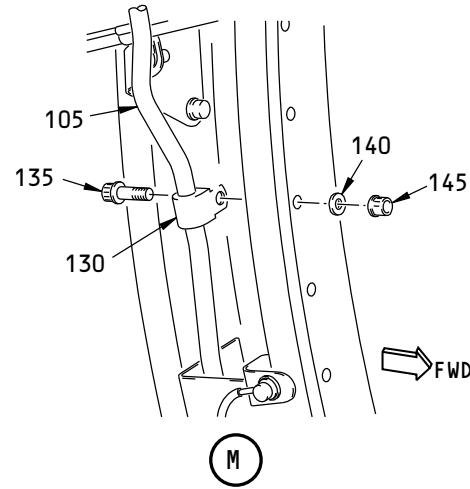
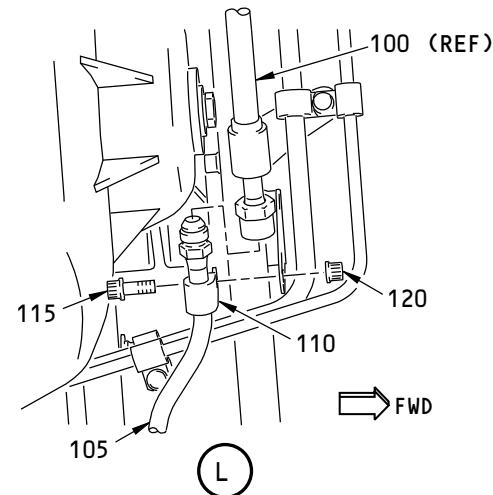
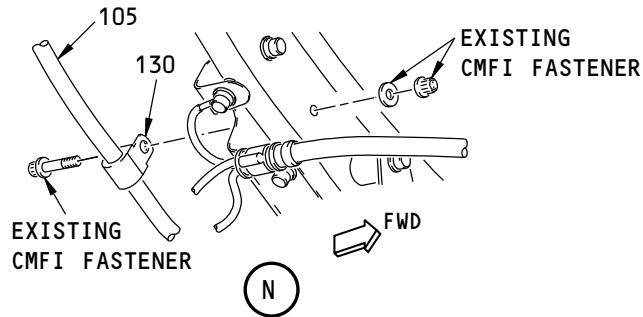
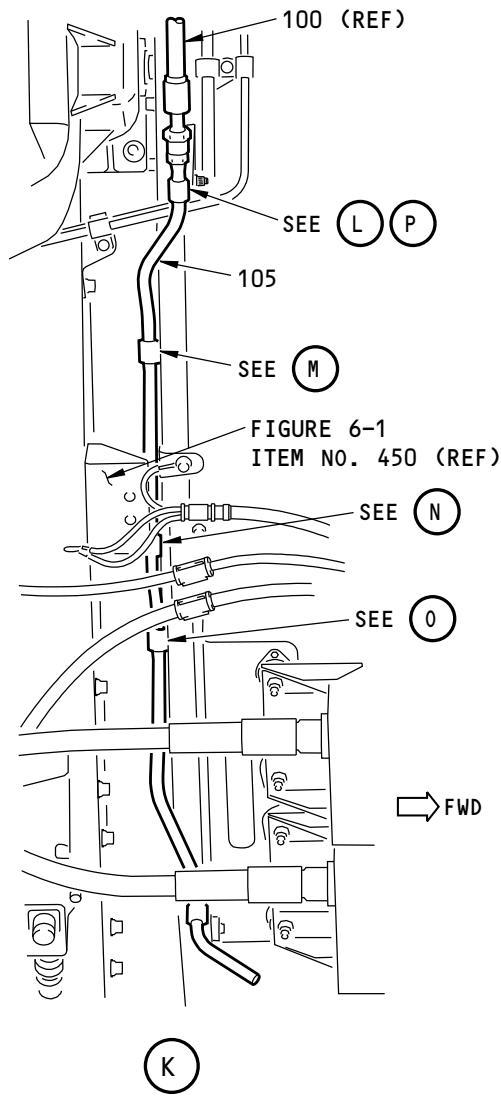
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 10-1     |             | <b>DRAINS INSTALLATION - RIGHT SIDE FAN CASE<br/>(FIGURE 10-1, SHEET 5)</b>  |     |     |
| C1       | D00504      | <p>REMOVE PROTECTIVE CAP FROM OIL SCUPPER DRAIN NIPPLE.<br/>LUBRICATE THREADS OF NIPPLE WITH grease, D00504 (C1).</p> <p>. GREASE</p> <p>ATTACH HOSE ASSY (100) TO NIPPLE AND TIGHTEN TO 257-284 POUND-INCHES (29.0-32.0 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> | CON | AR  |
| 100      | B700-2      | . HOSE ASSY (V98441) (SPEC S332W110-2)   | VEN | 1   |

**71-00-02****P/P BUILDUP FIGURE 10-1**

Page 11

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F22791 S00041153785\_V1

Drains Installation - Right Side Fan Case  
Figure 10-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 10-1

Page 12

Jun 15/2016

D633A106-AKS

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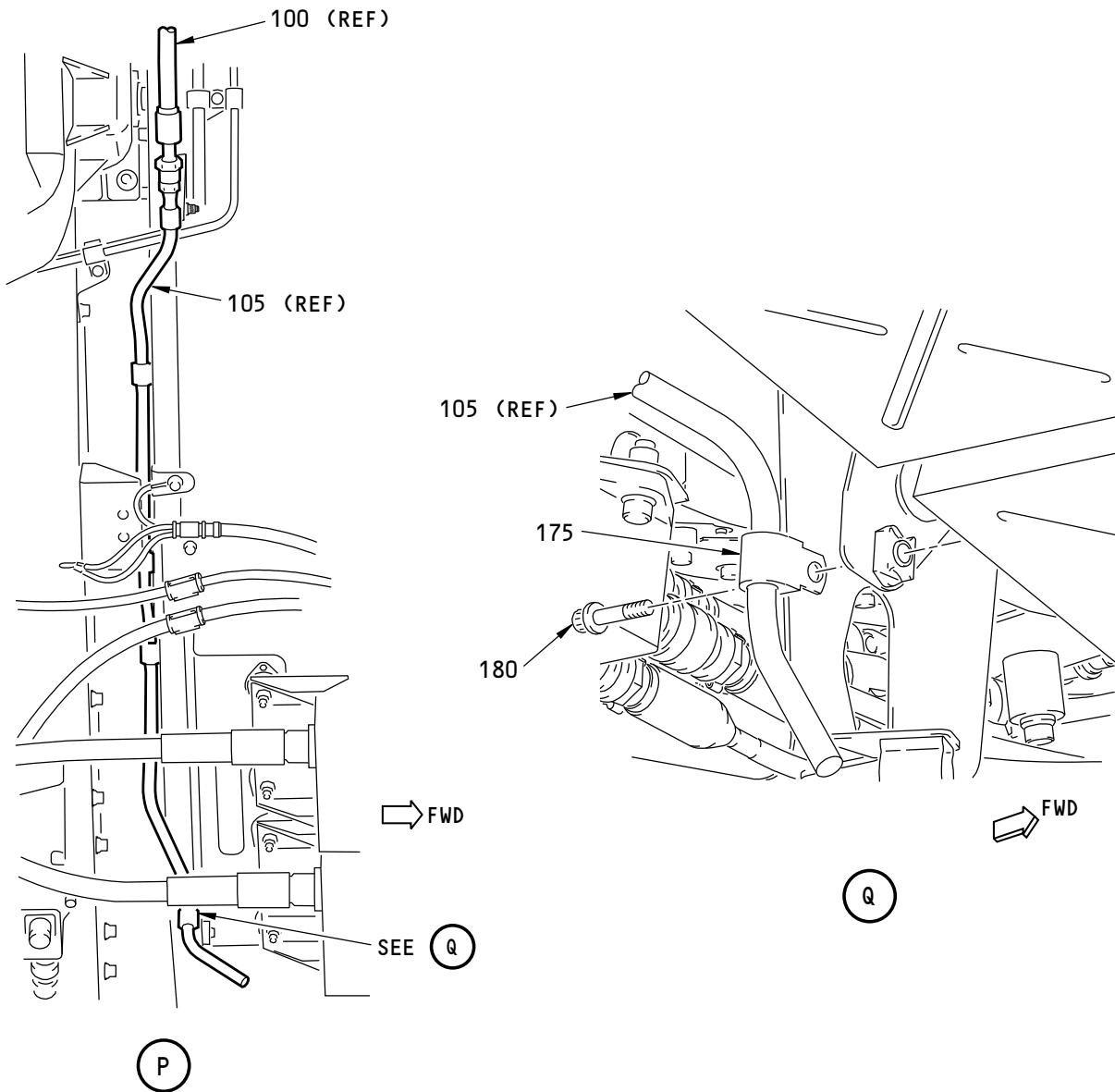
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 10-1     |               | <b>DRAINS INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 10-1, SHEET 6)</b><br><br>LUBRICATE THREADS ON TUBE ASSY (105) WITH grease, D00504 (C1) AND POSITION TUBE ASSY (105) ON ENGINE FAN CASE AND LOOSELY CONNECT TO HOSE ASSY (100).  |     |     |
| 105      | 332A2710-25   | . TUBE ASSY   |     | 1   |
| C1       | D00504        | . GREASE  | CON | AR  |
|          |               | APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLT (115). JUST BELOW TUBE UNION, LOOSELY ATTACH TUBE (105) TO ENGINE BRACKETS WITH CLAMP (110), BOLT (115) AND NUT (120).   |     |     |
| 110      | J1221G06      | . CLAMP (V07482)  | VEN | 1   |
| 115      | BACB30ZF4-08  | . BOLT  |     | 1   |
| 120      | AS3485-10     | . NUT   |     | 1   |
| C6       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLTS (135). AT FIRST AND THIRD THREE LOCATIONS, LOOSELY ATTACH TUBE ASSY (105) TO ENGINE BRACKETS. USE CLAMPS (130), BOLTS (135), WASHERS (140) AND NUTS (145). AT REMAINING LOCATION USE EXISTING CFMI FASTENER. | CON | AR  |
| 130      | J1221G06      | . CLAMP (V07482)  | VEN | 3   |
| 135      | BACB30ZF4-10  | . BOLT  |     | 2   |
| 140      | NAS1149C0432R | . WASHER (AGAINST ENGINE CASE)  |     | 2   |
| 145      | AS3485-10     | . NUT   |     | 2   |
| C6       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN TUBE ASSY (105) TO 257-284 POUND-INCHES (29.0-32.0 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 10-1**

Page 13

Jun 15/2016

D633A106-AKS



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**Drains Installation - Right Side Fan Case**  
**Figure 10-1 (Sheet 7)**

**71-00-02****P/P BUILDUP FIGURE 10-1**

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 10-1     |              | <b>DRAINS INSTALLATION - RIGHT SIDE FAN CASE (FIGURE 10-1, SHEET 7)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C6) TO UNDERSIDE HEAD OF BOLT (180). AT BOTTOM LOCATION, LOOSELY ATTACH TUBE ASSY (105) TO ENGINE BRACKET WITH CLAMP (175) AND BOLT (180).   |     |     |
| 175      | J1221G06     | . CLAMP (V07482)   | VEN | 1   |
| 180      | BACB30ZF4-06 | . BOLT   |     | 1   |
| C6       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>ADJUST TUBE ASSY (105) TO BEST POSITION. MAKE SURE PRELOAD AT ALL CLAMP POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS).<br><br>TIGHTEN BOLTS (115), (135), (180) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). TIGHTEN EXISTING CFMI FASTENER TO 100-110 POUND-INCHES (11.3-12.4 NEWTON METERS). | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 10-1**

Page 15

Jun 15/2016

D633A106-AKS

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**FIGURE 12-1**

**FUEL SUPPLY HOSE INSTALLATION**

**REF QEC TASK NO.: 12**

**REF DWG: 332A2100**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

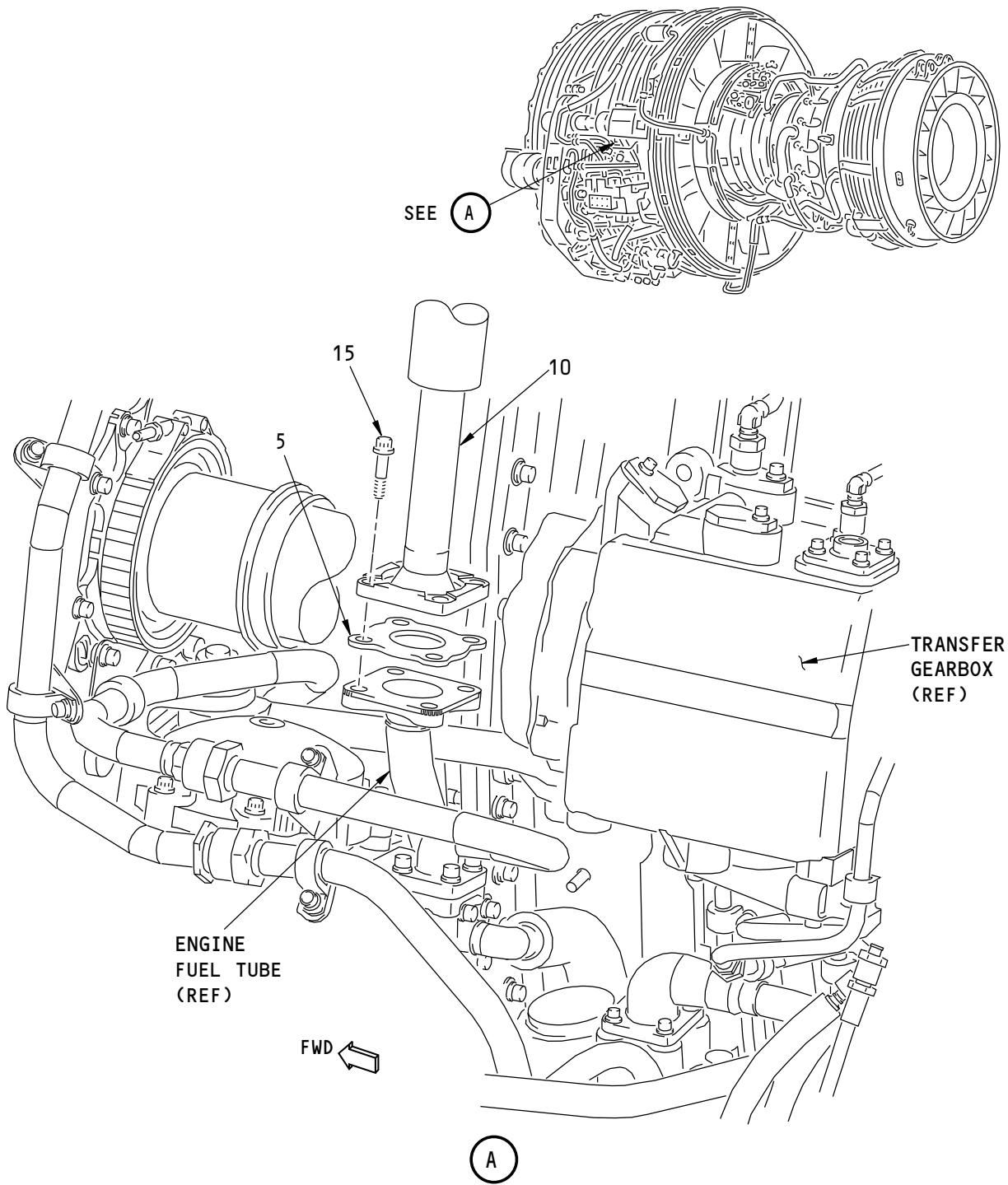
**P/P BUILDUP FIGURE 12-1**

Page 1

Jun 15/2016

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**Fuel Supply Hose Installation**  
**Figure 12-1 (Sheet 1)**

**71-00-02****P/P BUILDUP FIGURE 12-1**

Page 2

Jun 15/2016

D633A106-AKS

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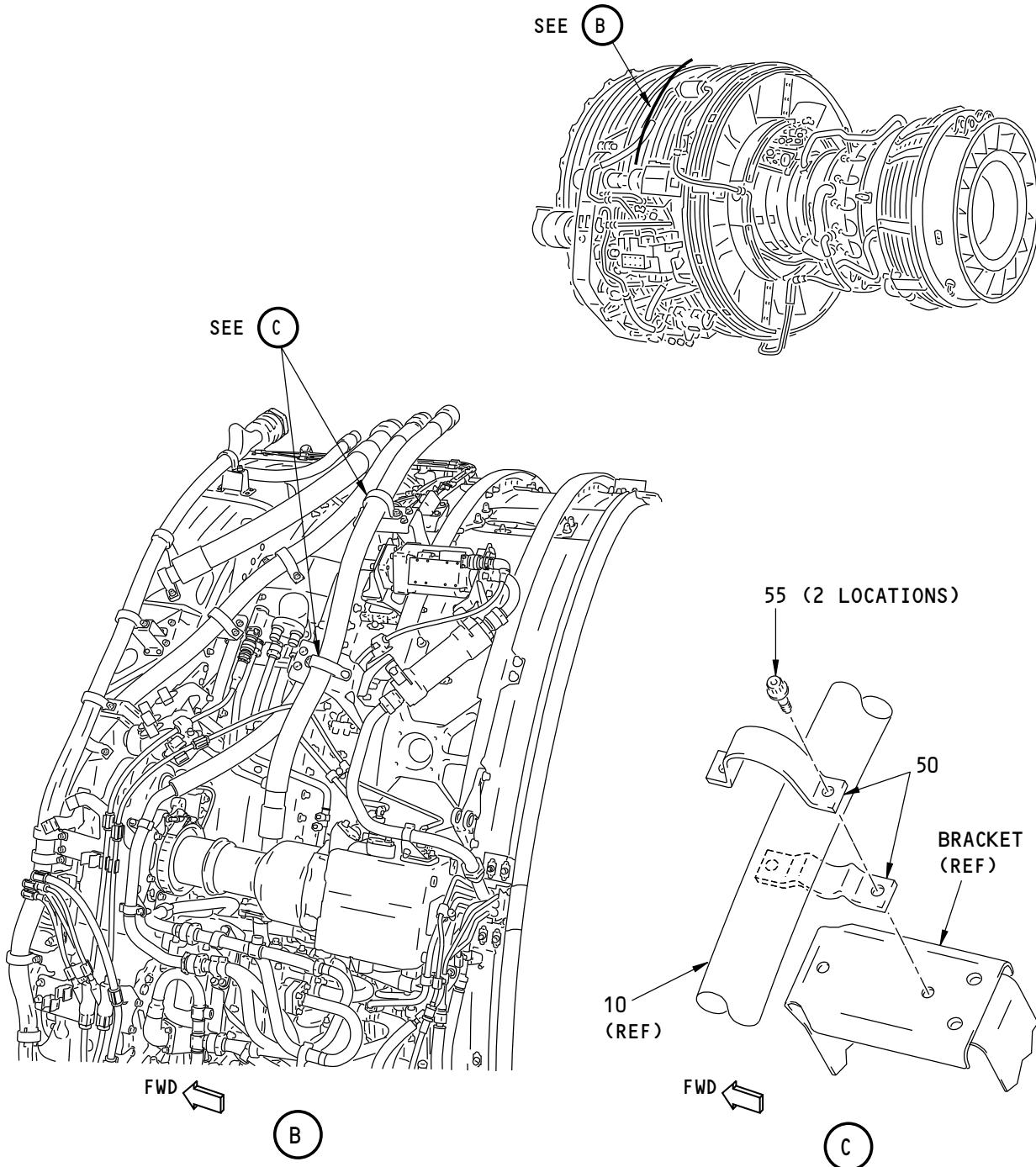
| ITEM NO. | PART NUMBER          | NOMENCLATURE   | UC  | QTY     |
|----------|----------------------|--|-----|---------|
| 12-1     |                      | <b>FUEL SUPPLY HOSE INSTALLATION<br/>(FIGURE 12-1, SHEET 1)</b><br><br>VISUALLY EXAMINE ALL GASKETS AND FITTINGS FOR DAMAGE. REJECT PARTS WITH DAMAGE TO THREADS, SEAL AREAS ON FITTINGS, AND O-RINGS.<br><br>LUBRICATE GASKET (5) WITH grease, D00504 (C1). POSITION GASKET (5) ON ENGINE FUEL TUBE.<br><br>. GASKET<br>. GREASE      |     |         |
| 5<br>C1  | MS27198-24<br>D00504 | POSITION FUEL SUPPLY HOSE ASSY (10) ON ENGINE FUEL TUBE AND GASKET (5). APPLY A COATING OF Never-Seez NSBT compound, D00006 (C2) TO THREADS AND SHANKS OF BOLTS (15). ATTACH HOSE ASSY (10) TO ENGINE FUEL TUBE WITH BOLTS (15).<br><br>. HOSE ASSY, FUEL SUPPLY (V00624) (SPEC S332A280-5)<br>. BOLT<br>. NEVER-SEEZ NSBT-8N COMPOUND | CON | 1<br>AR |
| 10       | AE713733-1           |  | VEN | 1       |
| 15       | BACB30ZF4-14         |  |     | 4       |
| C2       | D00006               | TIGHTEN BOLTS (15) TO 50-55 POUND-INCHES (5.6 - 6.2 NEWTON METERS)   | CON | AR      |

**71-00-02****P/P BUILDUP FIGURE 12-1**

Page 3

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Fuel Supply Hose Installation  
Figure 12-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 12-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 12-1     |              | <b>FUEL SUPPLY HOSE INSTALLATION</b><br><b>(FIGURE 12-1, SHEET 2)</b><br><br>APPLY A COATING OF Never-Seez NSBT compound, D00006 (C2) TO THREADS AND SHANKS OF BOLTS (55).<br>AT TWO LOCATIONS, LOOSELY INSTALL HOSE ASSY (10) ON LEFT FAN CASE WITH CLAMPS (50) AND BOLTS (55).<br><br><b>NOTE:</b> MAINTAIN A MINIMUM CLEARANCE OF 5/8 INCHES (15.9 MM) BETWEEN FUEL SUPPLY HOSE ASSY (10) AND ADJACENT ELECTRICAL WIRING. |     |     |
| 50       | TA0910091H1  | . CLAMP (V84971)   | VEN | 2   |
| 55       | BACB30ZF4-07 | . BOLT   |     | 4   |
| C2       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>ADJUST HOSE ASSY (10) TO BEST POSITION AND TIGHTEN BOLTS (55) TO 98-110 POUND-INCHES (11.1-12.4 NEWTON METERS).   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 12-1**

Page 5

Jun 15/2016

D633A106-AKS

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**FIGURE 13-1**

**12 O'CLOCK STRUT INSTALLATION**

**REF QEC TASK NO.: 13**

**REF DWG: 332A2300  
332A2370**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

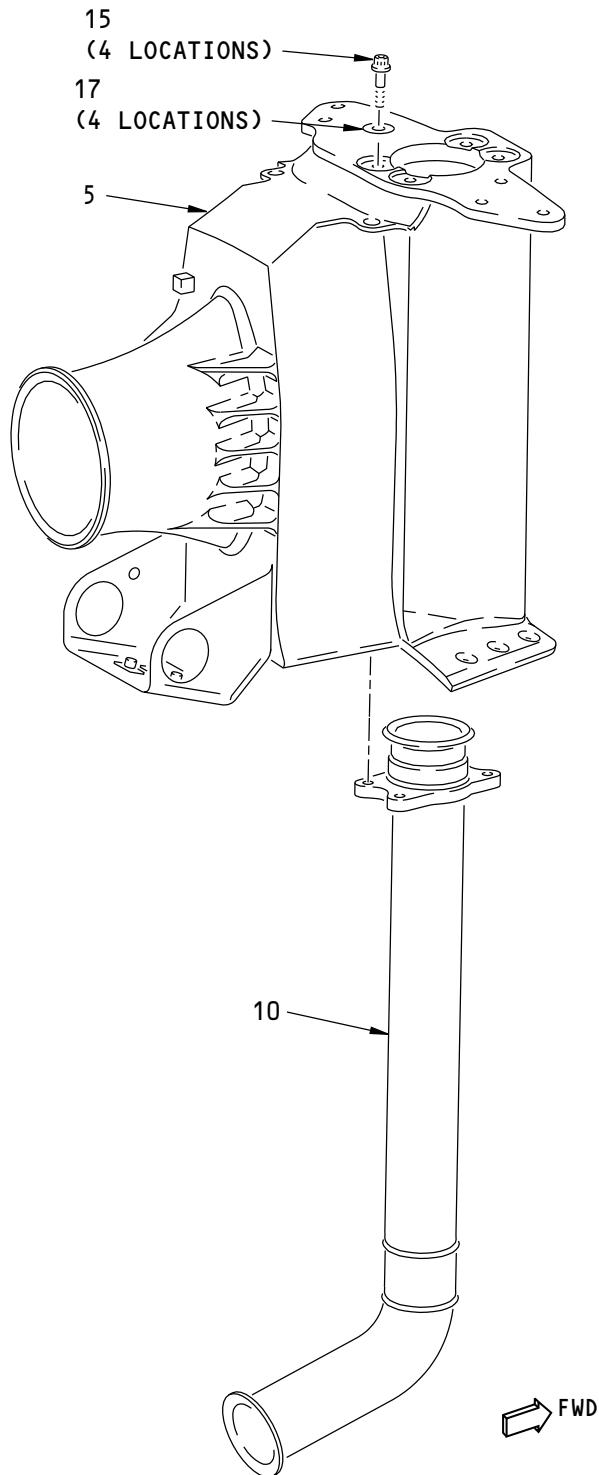
**P/P BUILDUP FIGURE 13-1**

**Page 1**

**Jun 15/2016**

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12 O'Clock Strut Installation  
Figure 13-1 (Sheet 1)71-00-02  
P/P BUILDUP FIGURE 13-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

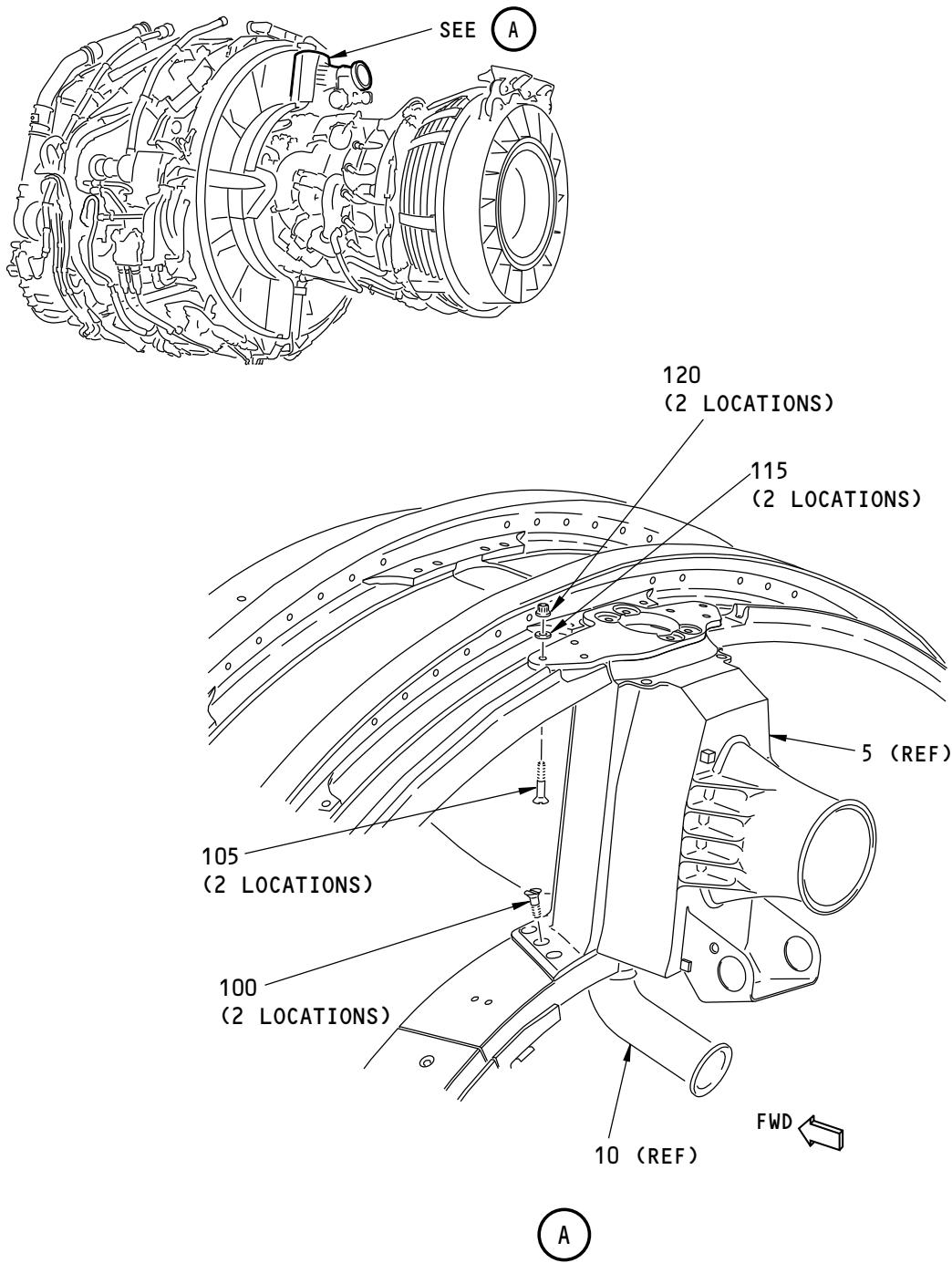
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 13-1     |              | <b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 1)</b><br><br>IN THIS PROCEDURE, DO NOT TIGHTEN BOLTS UNLESS<br>INSTRUCTED OR INSTALL PARTS IN A DIFFERENT SEQUENCE.<br>PREASSEMBLY OF 12 O'CLOCK STRUT<br><br><b>CAUTION:</b> BE CAREFUL NOT TO GOUGE THE INNER WALL OF<br>THE 12 O'CLOCK STRUT WHEN THE CTAI DUCT ASSY<br>IS INSTALLED.<br><br>INSTALL DUCT ASSY (10) INTO 12 O'CLOCK STRUT (5) FROM<br>BOTTOM.<br><br>LOOSELY SECURE WITH BOLTS (15) AND WASHERS (17). |     |     |
| 5        | 332A2371-4   | . 12 O'CLOCK STRUT ASSY  | 1   |     |
| 5        | 332A2371-3   | . 12 O'CLOCK STRUT ASSY (REPLACED BY 332A2371-4)   | LTD | -   |
| 10       | 332A2390-45  | . DUCT ASSY-CTAI   |     | 1   |
| 10       | 332A2390-43  | . DUCT ASSY-CTAI (OPTIONAL TO 332A2390-45)   | OPT | -   |
| 15       | BACB30PN4H7  | . BOLT   |     | 4   |
| 17       | BACW10BP4ACU | . WASHER   |     | 4   |

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 3

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

1654145 S0000243200\_V1

12 O'Clock Strut Installation  
Figure 13-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 13-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 13-1     |             | <p><b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 2)</b></p> <p>TEMPORARILY SECURE 12 O'CLOCK STRUT ASSY (5) TO FAN CASE.</p> <p>LOOSELY ATTACH LOWER FLANGES OF STRUT ASSY TO EXTENSION RING OF ENGINE USING BOLTS (100) IN CENTER HOLE OF FLANGES.</p> <p>LOOSELY ATTACH UPPER FLANGES OF STRUT ASSY TO OUTER FAN CASE USING BOLTS (105), WASHERS (115) AND NUTS (120) IN OUTER HOLE OF FLANGES.</p> |    |     |

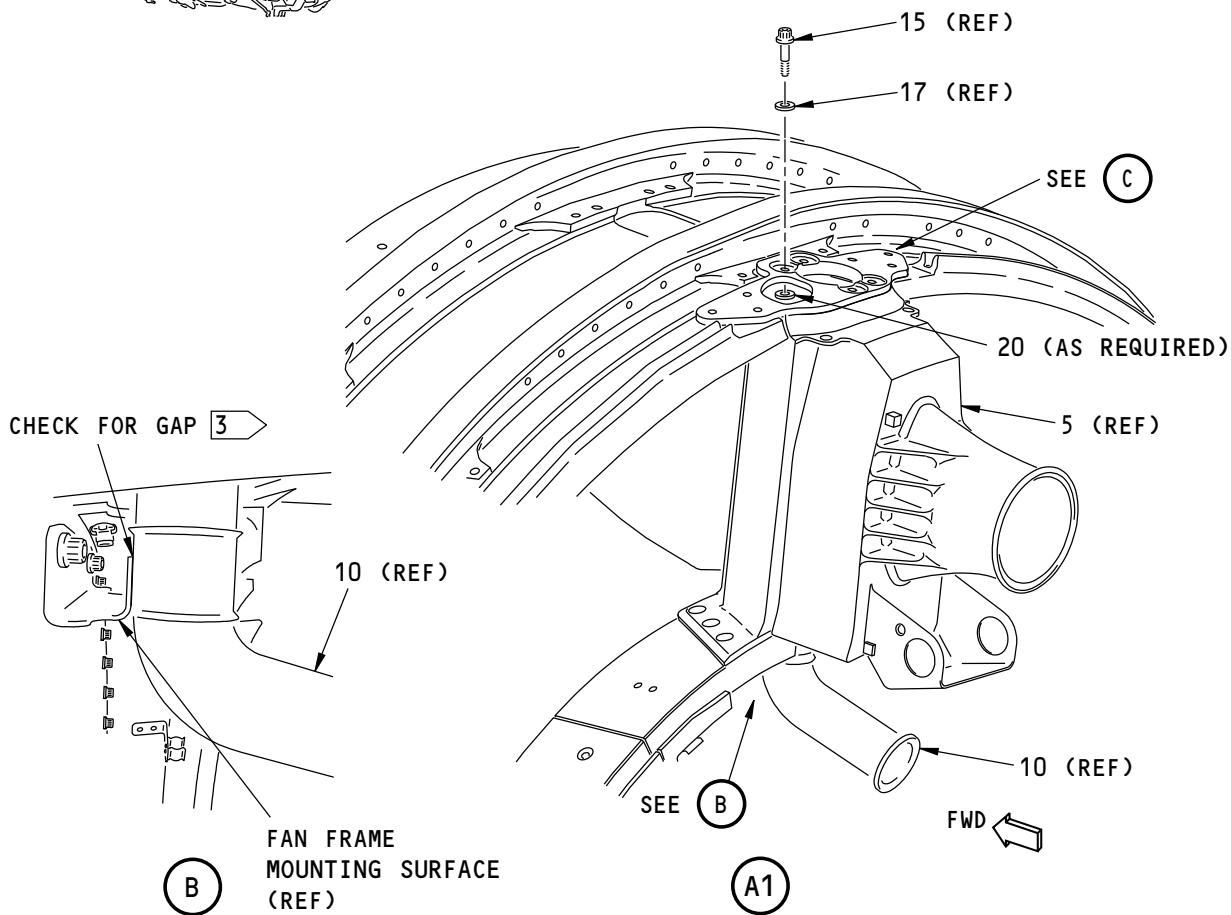
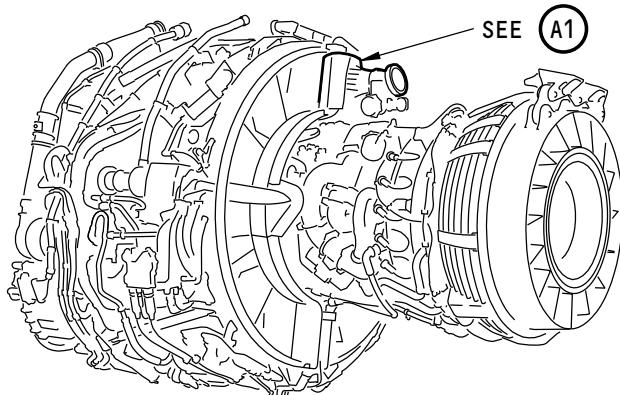
**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 5

Jun 15/2016

D633A106-AKS

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- 3 DUCT (10) MUST BE FLUSH WITH FAN FRAME MOUNTING SURFACE WITHOUT PRELOAD. INSTALL WASHERS (20) IN MATCHED PAIRS BETWEEN DUCT FLANGE (10) AND STRUT ASSEMBLY (5). DIAGONAL PAIRS NOT ACCEPTABLE.

1654260 S0000243204\_V2

**12 O'Clock Strut Installation**  
**Figure 13-1 (Sheet 3)**

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 6

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 13-1     |               | <p><b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 3)</b></p> <p>CHECK DUCT ASSY (10) POSITION.<br/>DUCT MUST BE FLUSH TO FAN FRAME MOUNTING SURFACE<br/>WITHOUT PRELOADING DUCT.</p> <p>TO ADJUST DUCT POSITION:<br/>REMOVE 12 O'CLOCK STRUT ASSY (5) FROM ENGINE. REMOVE<br/>DUCT ASSY (10) FROM 12 O'CLOCK STRUT.<br/>INSTALL WASHERS (20) BETWEEN FLANGE HOLES OF DUCT<br/>ASSY AND 12 O'CLOCK STRUT. WASHERS MUST BE INSTALLED<br/>IN MATCHED FORWARD, AFT, LEFT OR RIGHT PAIRS ONLY.<br/>DIAGONAL PAIRS NOT ACCEPTABLE.<br/>TEMPORARILY RE-SECURE 12 O'CLOCK STRUT. RECHECK DUCT<br/>POSITION. REPEAT THE ABOVE PROCEDURE UNTIL DUCT IS<br/>ALIGNED.</p> <p>IF INSTALLED, MAKE A RECORD OF THE QUANTITY AND<br/>LOCATIONS OF WASHERS (20).</p> <p>REMOVE BOLTS (15), WASHERS (17) AND, IF INSTALLED,<br/>WASHERS (20).</p> <p>APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS<br/>AND SHANK OF BOLTS (15).</p> <p>INSTALL BOLTS (15), WASHERS (17) AND, IF REQUIRED,<br/>WASHERS (20)</p> |     |     |
| 20       | NAS1149C0432R | . WASHER (THICK)  | AR  |     |
| 20       | NAS1149C0416R | . WASHER (THIN)   | OPT | AR  |
| C1       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |
|          |               | ONCE DUCT IS ALIGNED, TIGHTEN BOLTS (15) TO 73-77 POUND-<br>INCHES (8.25-8.7 NEWTON METERS) AND INSTALL safety cable kit,<br>G50375 (C6) OR MS20995NC32 lockwire, G01912 (C7).  |     |     |
| C6       | G50375        | . SAFETY CABLE KIT  | CON | AR  |
| C7       | G01912        | . MS20995NC32 LOCKWIRE  | CON | AR  |

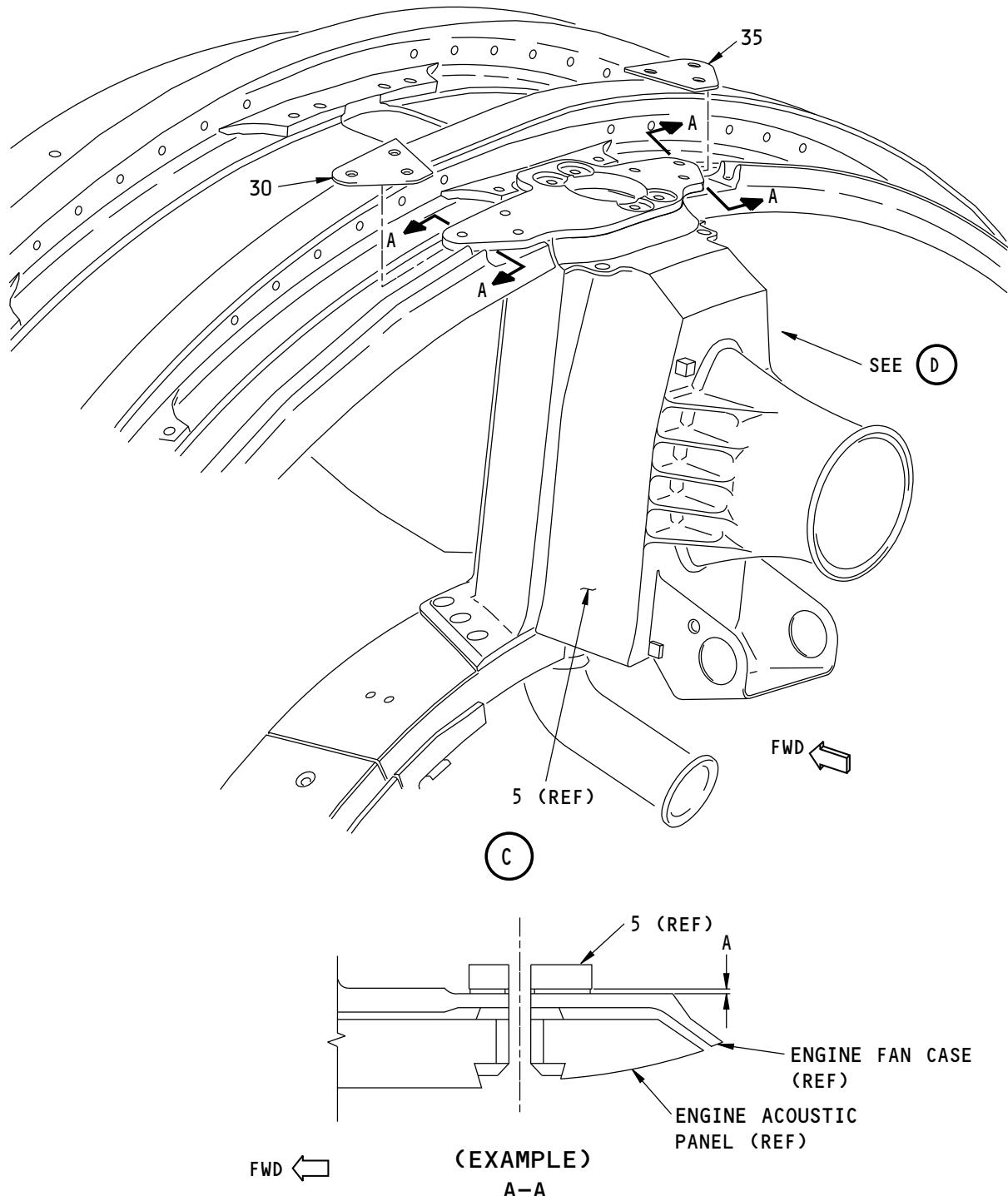
71-00-02

P/P BUILDUP FIGURE 13-1

Page 7

Jun 15/2016

D633A106-AKS



G55244 S00041153794\_V1

12 O'Clock Strut Installation  
Figure 13-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 13-1

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 13-1     |             | <p><b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 4)</b></p> <p>MEASURE GAP "A" BETWEEN OUTER FAN CASE AND 12 O'CLOCK STRUT ON BOTH SIDES. PEEL SHIMS (30) AND (35) UNTIL DESIRED THICKNESS IS ACHIEVED.</p> <p><b>NOTE:</b> IF GAP EXCEEDS 0.063 INCH (1.6 MM), USE TWO SHIMS. GAPS OF 0.070 INCH (1.78 MM) OR MORE ARE NOT PERMITTED.</p> |    |     |
| 30       | 332A2373-1  | . SHIM, LH (MAX OF 2)   | AR |     |
| 35       | 332A2373-2  | . SHIM, RH (MAX OF 2)   | AR |     |

REMOVE 12 O'CLOCK STRUT (5) FROM ENGINE. KEEP SHIMS AND FASTENERS FOR LATER INSTALLATION.

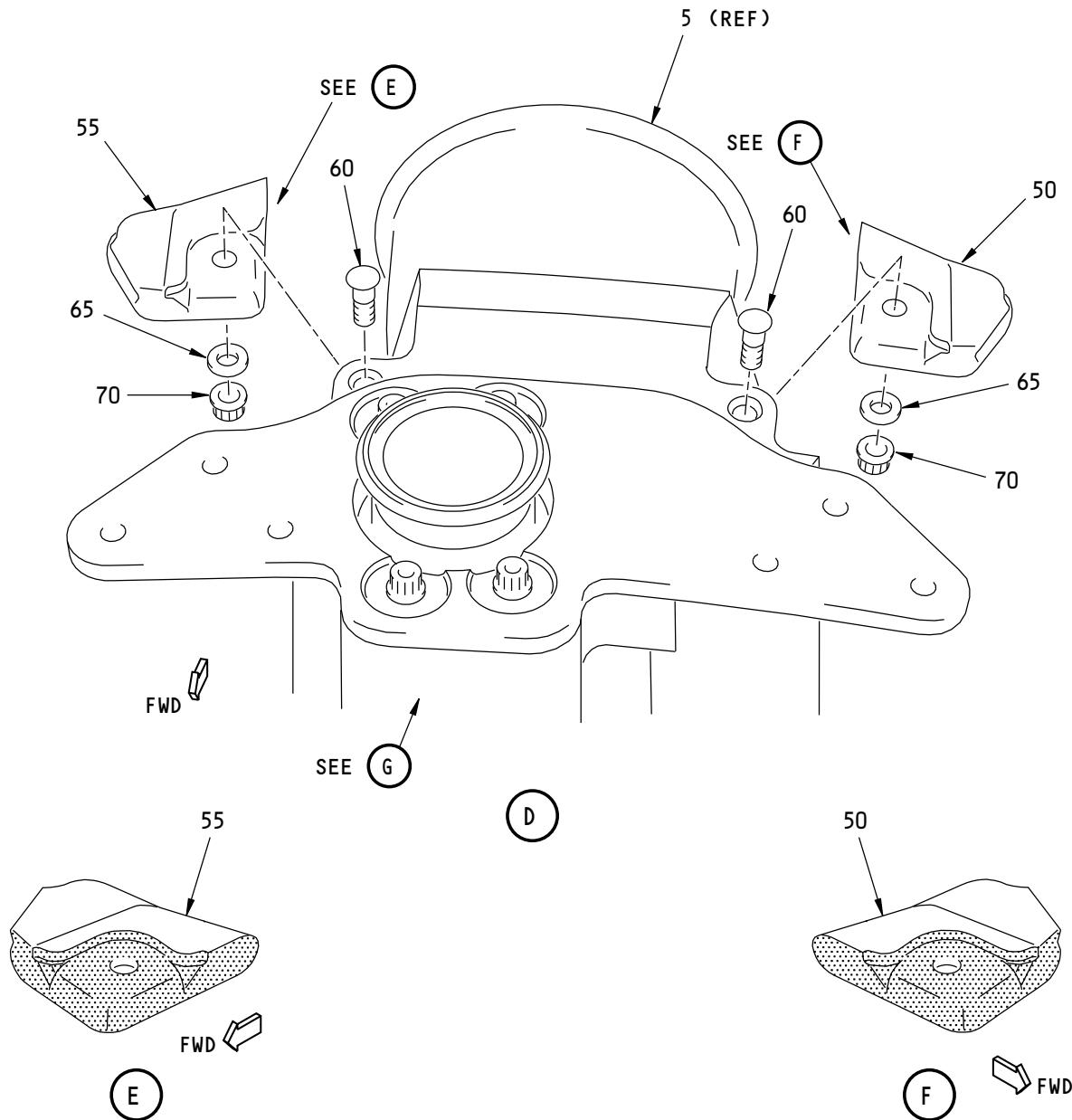
**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 9

Jun 15/2016

D633A106-AKS

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██████████ AREAS OF SEALANT APPLICATION.

F32024 S00041153795\_V1

**12 O'Clock Strut Installation**  
**Figure 13-1 (Sheet 5)**

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 10

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 13-1     |             | <b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 5)</b> <p><b>CAUTION:</b> MAKE SURE ALL SEALANTS ARE APPLIED CORRECTLY. 12 O'CLOCK STRUT IS PART OF FIRE SHIELD BETWEEN ENGINE AND STRUT. INCORRECT APPLICATION OF SEALANTS MAY WEAKEN FIRE PROTECTION.</p> <p>IF sealant, A00803 (C3) IS USED, BRUSH APPLY Dapco No. 1-100 primer, C00944 (C2) TO FAYING SURFACES ON SEALS (50) AND (55) AND 12 O'CLOCK STRUT (5).</p> |     |     |
| 50       | 332A2372-3  | . SEAL, LH   |     | 1   |
| 55       | 332A2372-4  | . SEAL, RH   |     | 1   |
| C2       | C00944      | . DAPCO NO. 1-100 PRIMER   | CON | AR  |
|          |             | APPLY sealant, A00803 (C3) OR sealant, A50096 (C4) TO FAYING SURFACES SHOWN ON SEALS (50) AND (55). ATTACH SEALS TO 12 O'CLOCK STRUT (5) WITH BOLTS (60), WASHERS (65) AND NUTS (70).  |     |     |
| 60       | BACB30VF4K3 | . BOLT   |     | 2   |
| 65       | BACW10BP4PK | . WASHER (UNDER NUT)   |     | 2   |
| 70       | BACN11Z4CK  | . NUT  |     | 2   |
| C3       | A00803      | . SEALANT  | CON | AR  |
| C4       | A50096      | . SEALANT  | CON | AR  |
|          |             | TIGHTEN BOLTS (60) TO 10 POUND-INCHES (1.1 NEWTON METERS).   |     |     |
|          |             | <b>NOTE:</b> TO FACILITATE INSTALLATION, BLEED CONTROLLER INSTALLATION/FIGURE 14-1 ITEMS 5 THRU 30 MAY BE ATTACHED TO 12 O'CLOCK STRUT (5) AT THIS TIME.   |     |     |

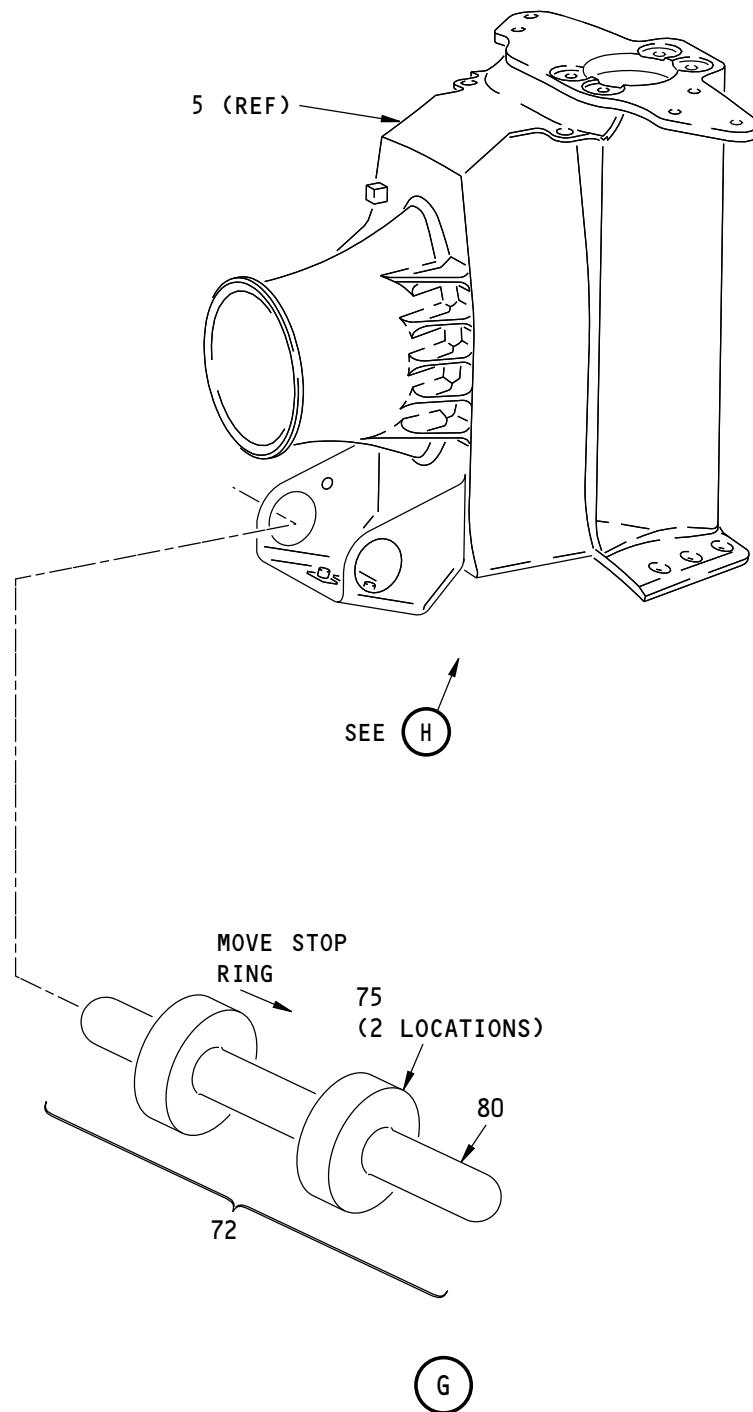
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P/P BUILDUP FIGURE 13-1

Page 11

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

N86598 S00041153797\_V2

12 O'Clock Strut Installation  
Figure 13-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 13-1

Page 12

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

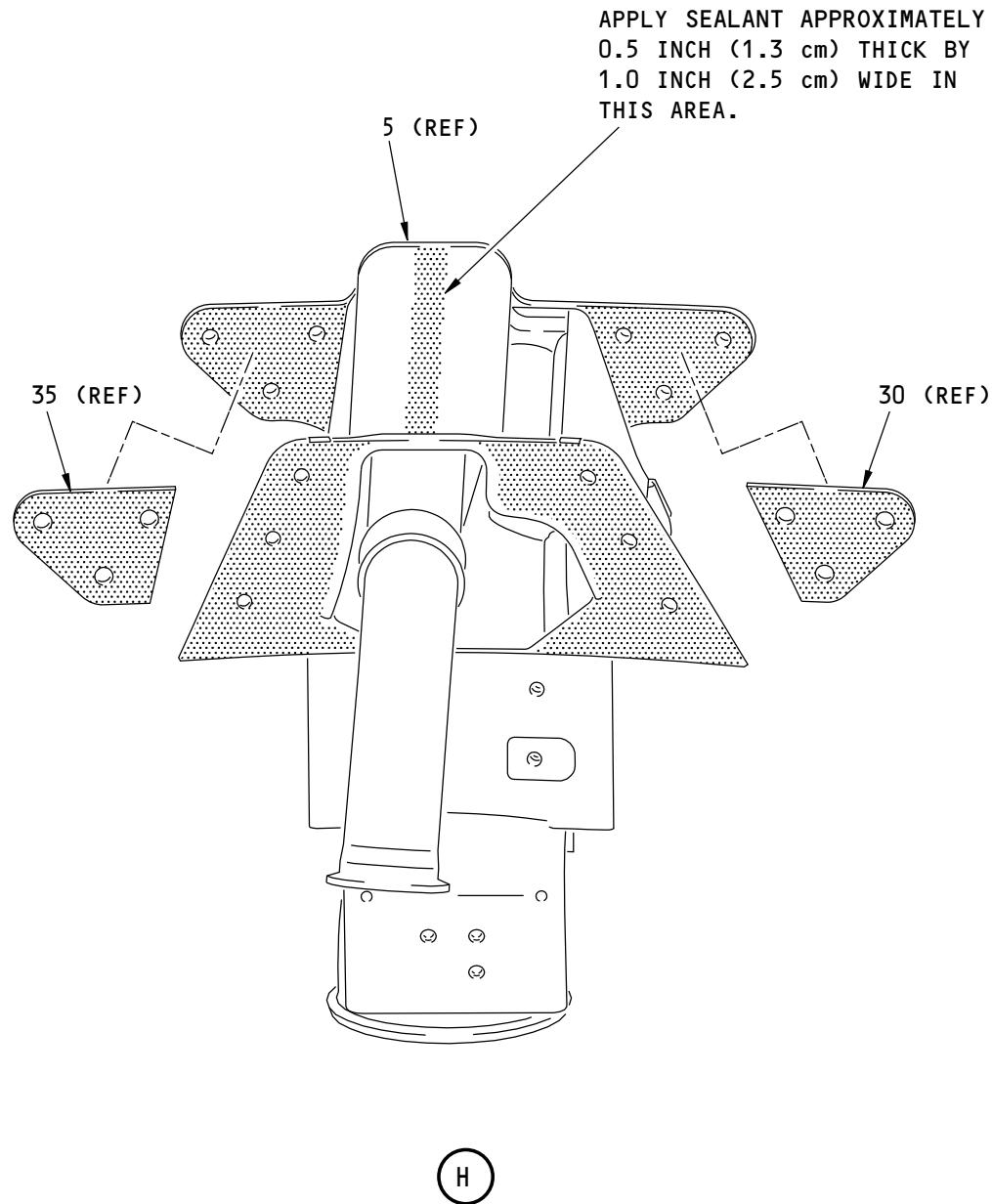
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 13-1     |             | <b>12 O'CLOCK STRUT INSTALLATION</b><br><b>(FIGURE 13-1, SHEET 6)</b><br><br>MOVE LH RUBBER STOP RING (75) TOWARDS CENTER OF ROD (80). POSITION ROD ASSY (72) IN 12 O'CLOCK STRUT (5) BRACKET.<br><br>RE-POSITION LH STOP RING (75) IN ROD (80) CHANNEL. |     |     |
| 72       | 315A2080-4  | . ROD ASSY   | 1   |     |
| 72       | 315A2080-1  | . ROD ASSY (OPTIONAL TO 315A2080-4)  | OPT | -   |
| 75       | 315A2083-1  | . . STOP RING (QTY 2)  | REF | -   |
| 80       | 315A2081-5  | . . ROD (QTY 1)  | REF | -   |

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

AREAS OF SEALANT APPLICATION.

F32042 S00041153798\_V1

12 O'Clock Strut Installation  
Figure 13-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 13-1

Page 14

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

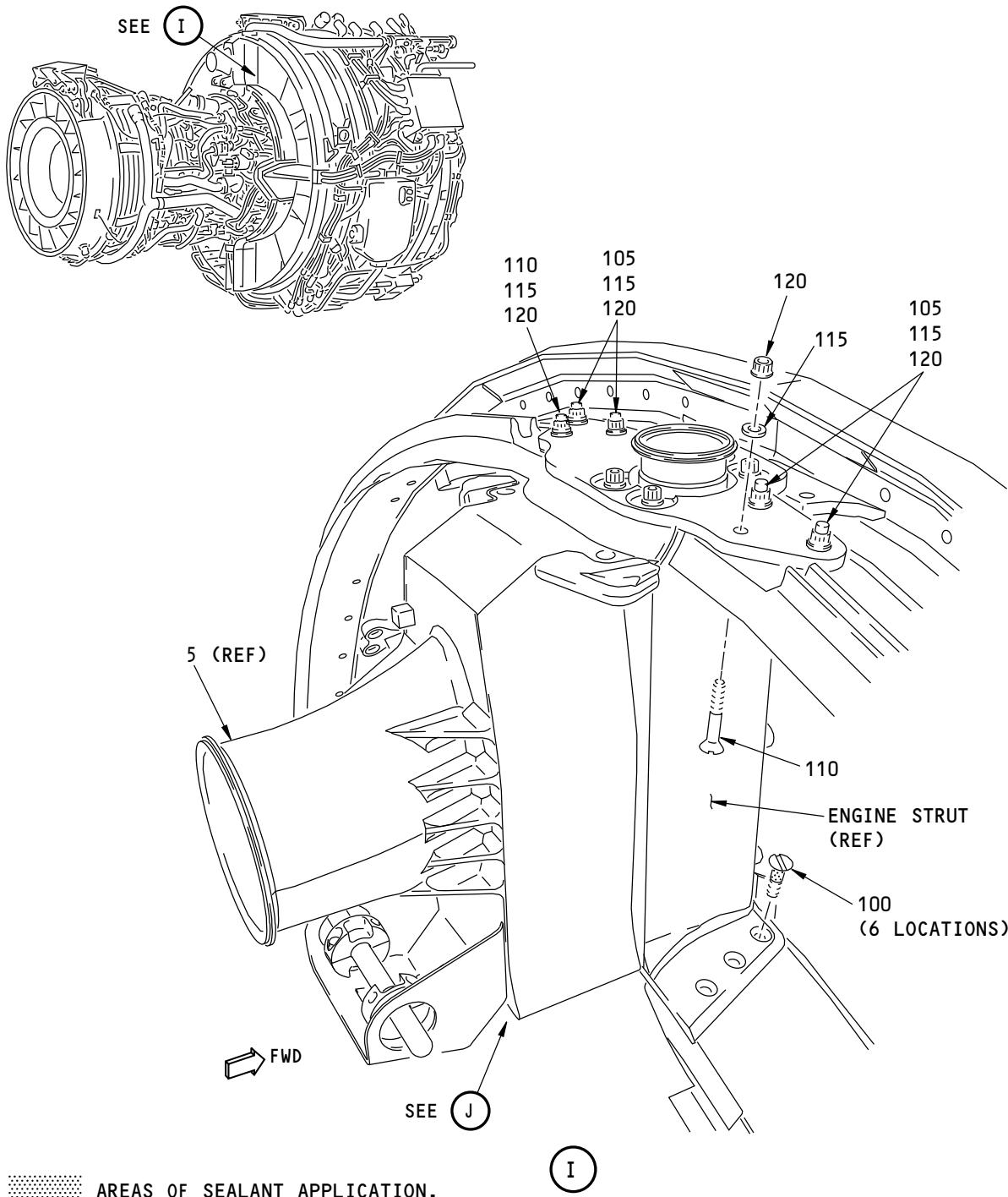
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 13-1     |             | <b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 7)</b><br><br>IF sealant, A00803 (C3) IS USED, APPLY Dapco No. 1-100 primer, C00944 (C2) TO FAYING SURFACES OF 12 O'CLOCK STRUT ASSY (5) AND INNER AND OUTER ENGINE FAN CASE AND TO BOTH SIDES OF SHIMS (30) AND (35). PERMIT PRIMER TO DRY.<br><br><b>NOTE:</b> Dapco No. 1-100 primer, C00944 (C2) DRIES IN APPROXIMATELY 1 HOUR AND CHANGES FROM A GREEN COLOR TO A PINK COLOR.  |     |     |
| C2       | C00944      | . DAPCO NO. 1-100 PRIMER<br><br>APPLY sealant, A00803 (C3) OR sealant, A50096 (C4) TO FAYING SURFACES OF 12 O'CLOCK STRUT ASSY (5) WITH INNER AND OUTER FAN CASE, TO FORWARD LOCATION OF 12 O'CLOCK STRUT AND TO BOTTOM OF SHIMS (30) AND (35) AS SHOWN.<br><br><b>NOTE:</b> WHEN APPLYING SEALANT, ENSURE LAYER IS UNIFORM AND COVERS ENTIRE FAYING SURFACE TO A DEPTH OF 0.005-0.010 INCH. AN ADDITIONAL SMALL BEAD OF SEALANT NEAR EDGE OF FAYING SURFACE IS PERMITTED TO ENSURE PROPER SQUEEZE-OUT OF SEALANT.<br><br>ATTACH SHIMS (30) AND (35) TO OUTER ENGINE FAN CASE FAYING SURFACES, ALIGNING HOLES IN SHIMS WITH HOLES IN ENGINE FAN CASE. APPLY sealant, A00803 (C3) TO TOP FAYING SURFACE OF SHIMS (30) AND (35). | CON | AR  |
| C3       | A00803      | <b>NOTE:</b> SEALANT MUST BE APPLIED ON BOTH SIDES OF SHIMS.   | CON | AR  |
| C4       | A50096      | . SEALANT<br>. SEALANT   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 15

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F33106 S00041153799\_V1

12 O'Clock Strut Installation  
Figure 13-1 (Sheet 8)

71-00-02

P/P BUILDUP FIGURE 13-1

Page 16

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

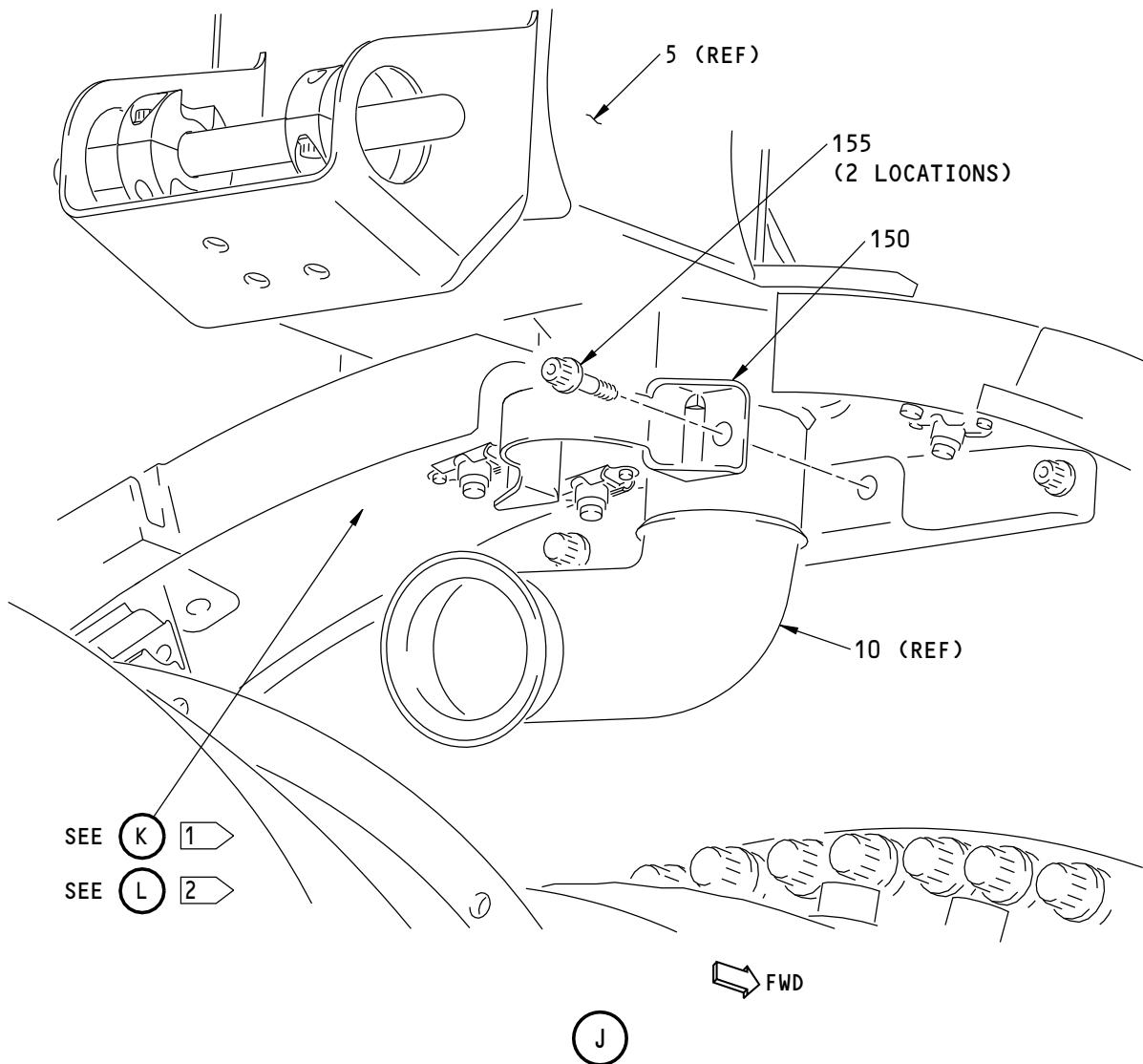
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 13-1     |              | <b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 8)</b><br>APPLY AC962-73C peelable parting agent, G50365 (C5) OR AZ 634-2<br>peelable parting agent, G50367 (C8) OR Rexco Partall Coverall Film<br>peelable parting agent, G50368 (C9) OR temporary coating, G50369<br>(C10) TO SURFACES ON ENGINE OPPOSITE WHERE SEALANT<br>(C3) OR (C4) WAS APPLIED (INNER AND OUTER ENGINE FAN<br>CASE INTERFACES AND DOWN THE CENTER AREA OF ENGINE<br>STRUT INTERFACE WITH 12 O'CLOCK STRUT (5)).<br><b>NOTE:</b> APPLY AGENT TO A WIDE ENOUGH AREA TO ALLOW FOR<br>SEALANT SQUEEZE-OUT. |     |     |
| C5       | G50365       | . AC962-73C PEELABLE PARTING AGENT   | CON | AR  |
| C8       | G50367       | . AZ 634-2 PEELABLE PARTING AGENT  | CON | AR  |
| C9       | G50368       | . REXCO PARTALL COVERALL FILM PEELABLE PARTING AGENT   | CON | AR  |
| C10      | G50369       | . SPRAYLAT SC-1071H-1 AGENT  | CON | AR  |
|          |              | LUBRICATE SHANKS OF BOLTS (105) AND (110) WITH sealant,<br>A00803 (C3) OR sealant, A50096 (C4). APPLY Never-Seez NSBT<br>compound, D00006 (C1) TO THREADS AND SHANK OF BOLTS<br>(100). IF sealant, A00803 (C3) IS USED, APPLY Dapco No. 1-100<br>primer, C00944 (C2) BEFORE SEALANT APPLICATION.   |     |     |
| 100      | BACB30NN4K6  | . BOLT   |     | 6   |
| 105      | BACB30NN4K18 | . BOLT   |     | 4   |
| 110      | BACB30NN4K16 | . BOLT   |     | 2   |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND  | CON | AR  |
| C2       | C00944       | . DAPCO NO. 1-100 PRIMER   | CON | AR  |
| C3       | A00803       | . SEALANT  | CON | AR  |
| C4       | A50096       | . SEALANT  | CON | AR  |
|          |              | POSITION 12 O'CLOCK STRUT ASSY (5) ON ENGINE FAN CASE.<br>ATTACH 12 O'CLOCK STRUT ASSY (5) TO INNER FAN CASE WITH<br>LUBRICATED BOLTS (100). ATTACH 12 O'CLOCK STRUT ASSY TO<br>OUTER FAN CASE WITH LUBRICATED BOLTS (105) AND (110),<br>WASHERS (115) AND NUTS (120).<br><b>NOTE:</b> IF GAP REMAINS AFTER TIGHTENING BOLT (105, 110),<br>USE OF AN ADDITIONAL WASHER (115) IS PERMITTED.   |     |     |
| 115      | BACW10BP4PK  | . WASHER   |     | 6   |
| 120      | BACN11Z4CK   | . NUT  |     | 6   |
|          |              | MAKE SURE BOLTS (100) FULLY ENGAGE NUTPLATES. CHECK<br>BOLT PROTRUSION. MINIMUM BOLT PROTRUSION IS WHEN BOLT<br>IS FLUSH WITH THE END OF THE NUTPLATE. TIGHTEN BOLTS<br>(100) TO 68-82 POUND-INCHES (7.7-9.3 NEWTON METERS).<br>TIGHTEN BOLTS (105) AND (110) TO 72-88 POUND-INCHES (8.1-9.9<br>NEWTON METERS).  |     |     |

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 17

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

1 PREFERRED CONFIGURATION

2 OPTIONAL CONFIGURATION

F33824 S00041153800\_V1

12 O'Clock Strut Installation  
Figure 13-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 13-1

Page 18

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

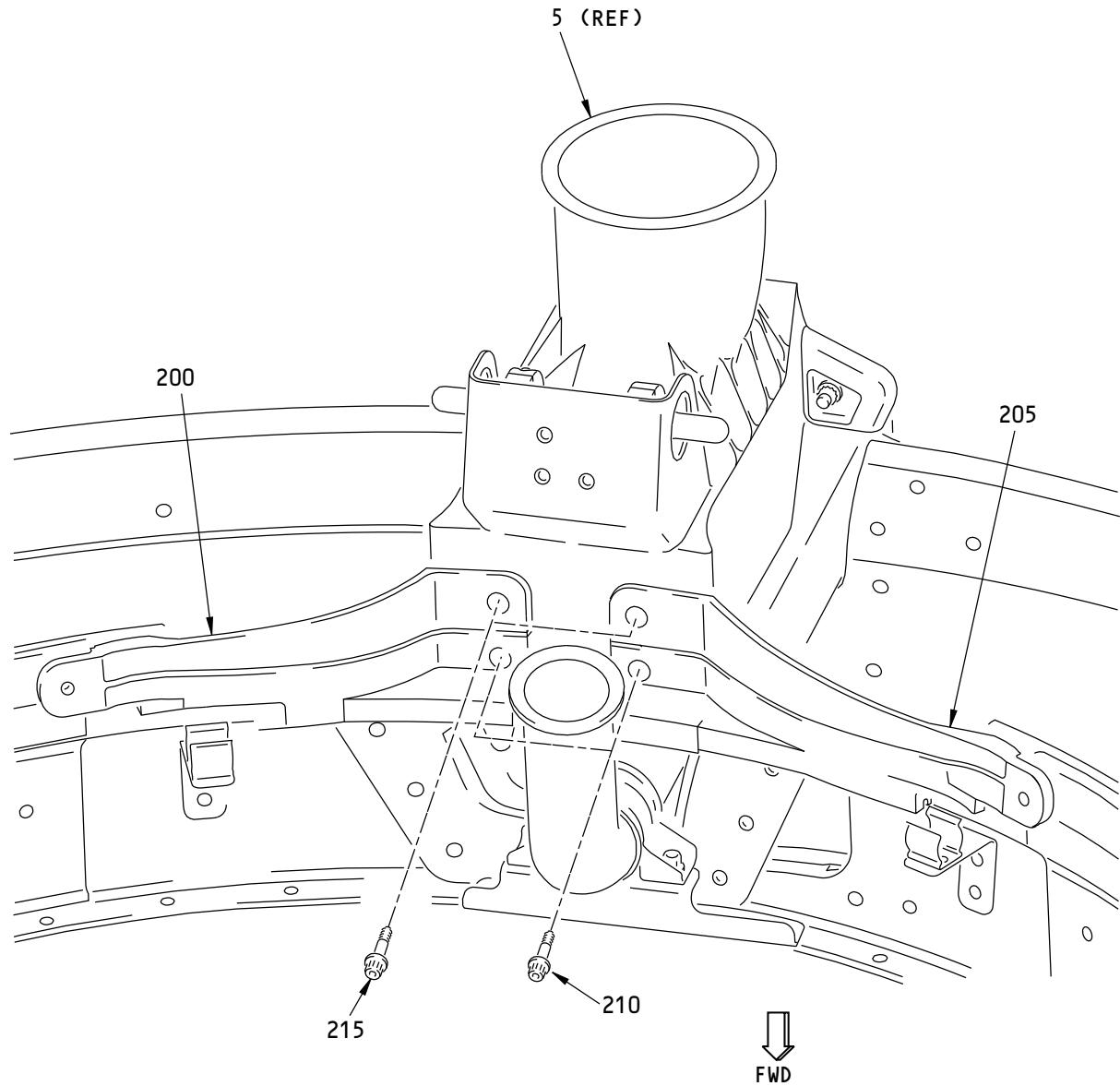
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 13-1     |              | <b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 9)</b>   |     |     |
| 150      | 9134M25P29   | SECURE CTAI DUCT (10) TO ENGINE FAN FRAME WITH<br>RETAINING STRAP (150) AND BOLTS (155).  | VEN | 1   |
| 155      | BACB30ZF4-08 | <ul style="list-style-type: none"> <li>. RETAINING STRAP (V07482)</li> <li>. BOLT</li> </ul> TIGHTEN BOLTS (155) TO 60-70 POUND-INCHES (6.77-7.9<br>NEWTON METERS). |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 19

Jun 15/2016

D633A106-AKS



L66234 S00041153801\_V1

**12 O'Clock Strut Installation  
Figure 13-1 (Sheet 10)****71-00-02****P/P BUILDUP FIGURE 13-1**

Page 20

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 13-1     |             | <b>12 O'CLOCK STRUT INSTALLATION</b><br><b>(FIGURE 13-1, SHEET 10)</b><br><br><u>PREFERRED CONFIGURATION:</u><br><br>APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS AND SHANK OF BOLTS (210) AND (515).<br><br>LOOSELY ATTACH TRANSITION FITTINGS (200) AND (205) TO BOTTOM OF 12 O'CLOCK STRUT ASSY (5). USE BOLT (210) AT FWD LOCATIONS AND BOLT (215) AT AFT LOCATIONS. |     |     |
| 200      | 332A2374-13 | . TRANSITION FITTING ASSY, LH  | 1   |     |
| 205      | 332A2374-14 | . TRANSITION FITTING ASSY, RH  | 1   |     |
| 210      | BACB30LE4K6 | . BOLT (FWD LOCATIONS)   | 2   |     |
| 215      | BACB30LE4K4 | . BOLT (AFT LOCATIONS)   | 2   |     |
| C1       | D00006      | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN BOLTS (210) AND (215) TO 68-82 POUND-INCHES (7.7-9.3 NEWTON METERS).<br><br><b>NOTE:</b> BOLTS (210) AND (215) WILL BE TIGHTENED AFTER OUTBOARD FASTENERS ARE INSTALLED.  | CON | AR  |

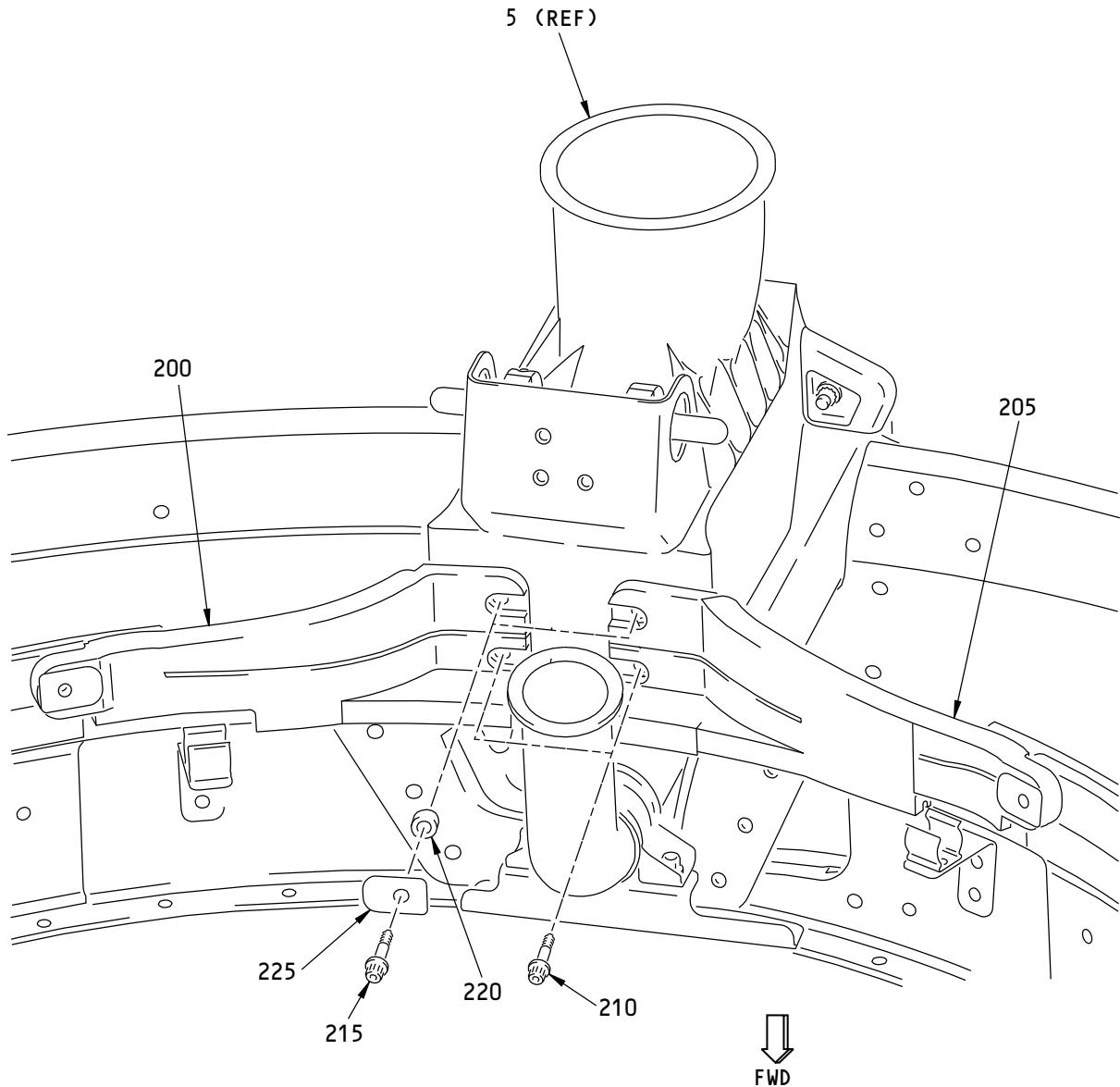
**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 21

Jun 15/2016

D633A106-AKS

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## OPTIONAL CONFIGURATION



F32029 S00041153802\_V1

12 O'Clock Strut Installation  
Figure 13-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 13-1

Page 22

Jun 15/2016

D633A106-AKS

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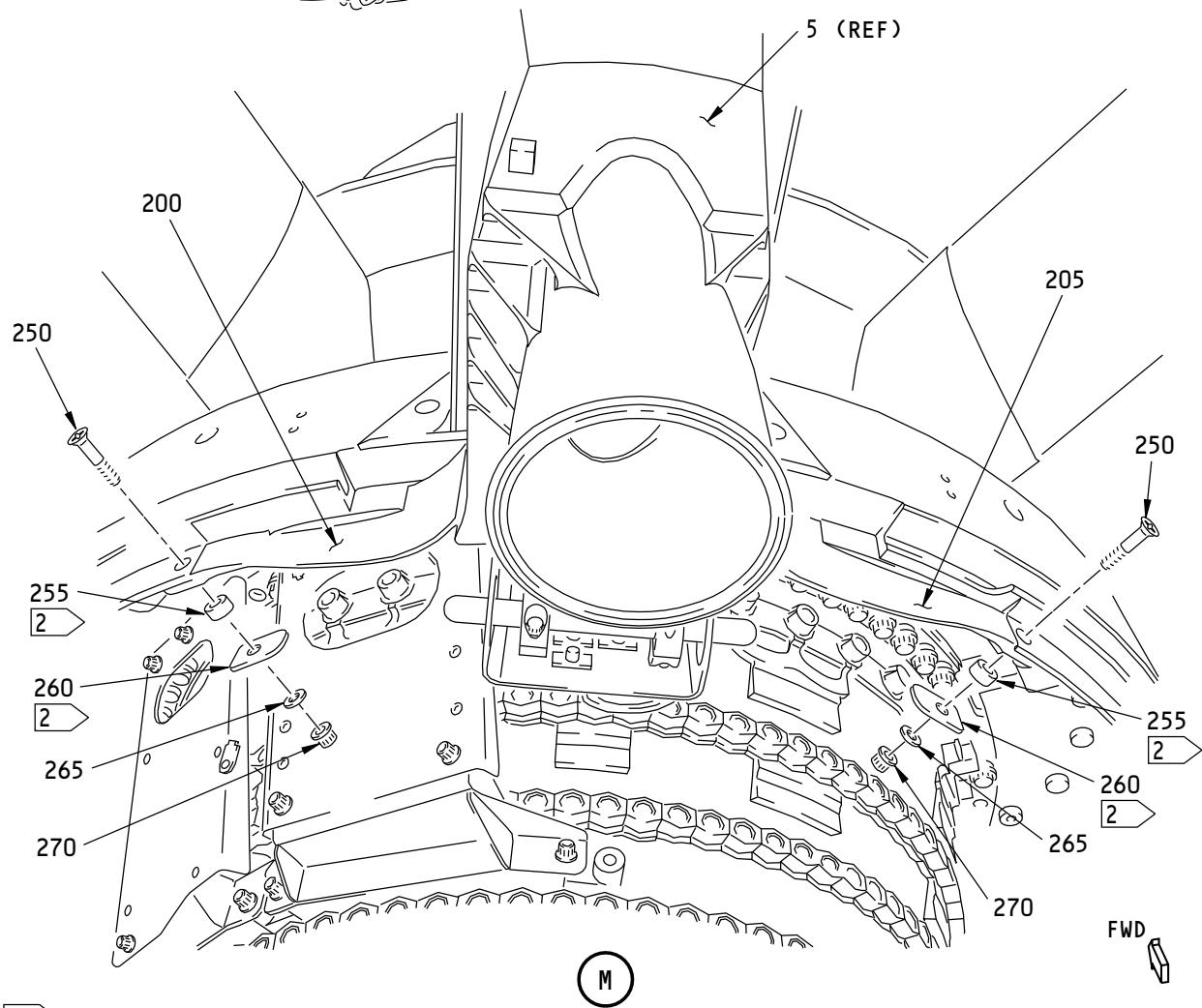
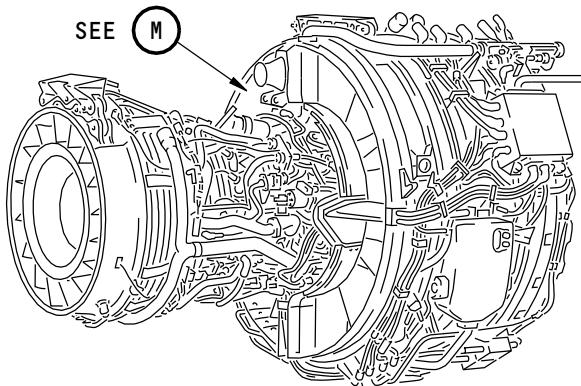
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 13-1     |               | <b>12 O'CLOCK STRUT INSTALLATION</b><br><b>(FIGURE 13-1, SHEET 11)</b><br><u>OPTIONAL CONFIGURATION:</u><br>LOOSELY ATTACH TRANSITION FITTINGS (200) AND (205) TO BOTTOM OF 12 O'CLOCK STRUT ASSY (5).<br>USE BOLT (210) AT FWD LOCATIONS AND BOLT (215), SPACER (220) AND CLIP (225) AT AFT LOCATIONS. |     |     |
| 200      | 332A2374-9    | . TRANSITION FITTING ASSY, LH (1 REQD)  | OPT | -   |
| 205      | 332A2374-10   | . TRANSITION FITTING ASSY, RH (1 REQD)  | OPT | -   |
| 210      | BACB30LE4K6   | . BOLT (FWD LOCATIONS) (2 REQD)   | OPT | -   |
| 215      | BACB30LE4K8   | . BOLT (AFT LOCATIONS) (2 REQD)   | OPT | -   |
| 220      | NAS1057W4A025 | . SPACER (AFT LOCATIONS) (2 REQD)   | OPT | -   |
| 225      | 332A2376-1    | . CLIP (AFT LOCATIONS) (2 REQD)   | OPT | -   |
|          |               | <b>NOTE:</b> BOLTS (210) AND (215) WILL BE TIGHTENED AFTER OUTBOARD FASTENERS ARE INSTALLED.  |     |     |

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 23

Jun 15/2016

D633A106-AKS



2 OPTIONAL CONFIGURATION

F33243 S00041153803\_V1

**12 O'Clock Strut Installation**  
**Figure 13-1 (Sheet 12)**

**71-00-02**

**P/P BUILDUP FIGURE 13-1**

Page 24

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 13-1     |               | <b>12 O'CLOCK STRUT INSTALLATION</b><br><b>(FIGURE 13-1, SHEET 12)</b><br><br>SECURE LEFT AND RIGHT TRANSITION FITTINGS (200) AND (205) TO ENGINE EXTENSION RING WITH BOLTS (250), WASHERS (265) AND NUTS (270).<br><br>USE SPACERS (255) AND CLIPS (260) IF OPTIONAL CONFIGURATION IS INSTALLED.<br><br>. BOLT* <sup>[4]</sup><br>. BOLT (2 REQD)* <sup>[3]</sup><br>. SPACER (2 REQD)* <sup>[3]</sup><br>. CLIP (2 REQD)* <sup>[3]</sup><br>. WASHER<br>. NUT<br><br>TIGHTEN BOLTS (210) AND (215) TO 90-110 POUND-INCHES (10.2-12.4 NEWTON METERS).<br><br>TIGHTEN BOLTS (250) TO 65-100 POUND-INCHES (7.3-11.3 NEWTON METERS). |     |     |
| 250      | BACB30NN4K6   | . BOLT* <sup>[4]</sup>   |     | 2   |
| 250      | BACB30NN4K11  | . BOLT (2 REQD)* <sup>[3]</sup>  | OPT | -   |
| 255      | NAS1057W4A025 | . SPACER (2 REQD)* <sup>[3]</sup>  | OPT | -   |
| 260      | 332A2376-1    | . CLIP (2 REQD)* <sup>[3]</sup>  | OPT | -   |
| 265      | BACW10BP4PK   | . WASHER   |     | 2   |
| 270      | BACN11Z4CK    | . NUT  |     | 2   |

\*[3] USED WITH OPTIONAL CONFIGURATION 332A2374-9 (LH) AND 332A2374-10 (RH) FITTING ASSEMBLIES (REF VIEW L).

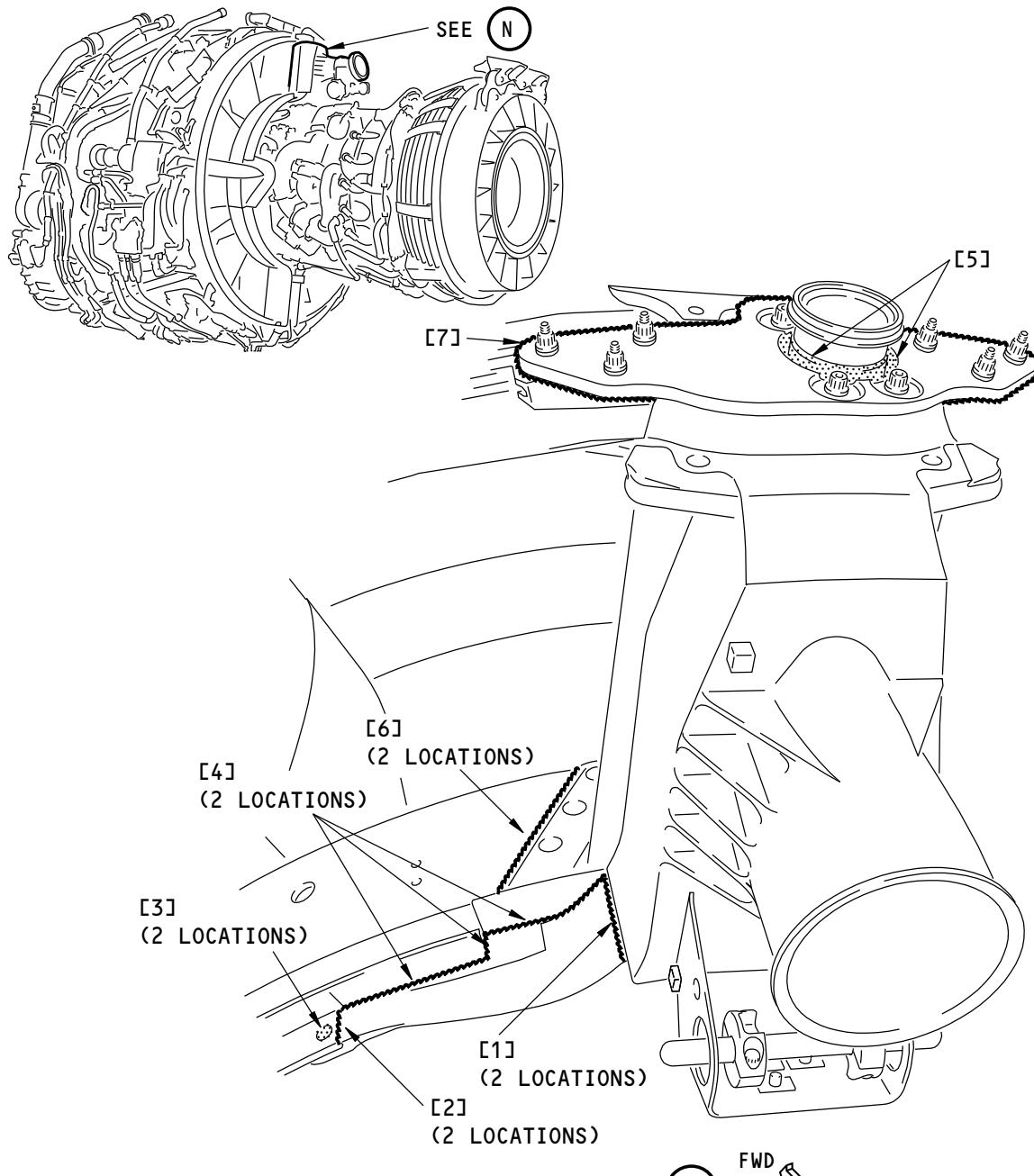
\*[4] USED WITH PREFERRED CONFIGURATION 332A2374-13 (LH) AND 332A2374-14 (RH) FITTING ASSEMBLIES (REF VIEW K).

**71-00-02**
**P/P BUILDUP FIGURE 13-1**

Page 25

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

NOTE: LEFT SIDE SEALANT APPLICATION SHOWN,  
RIGHT SIDE SEALANT APPLICATION OPPOSITE.

AND \_\_\_\_\_, AREAS OF SEALANT APPLICATION.

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**12 O'Clock Strut Installation**  
**Figure 13-1 (Sheet 13)**

**71-00-02**

**P/P BUILDUP FIGURE 13-1**

Page 26

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 13-1     |             | <b>12 O'CLOCK STRUT INSTALLATION<br/>(FIGURE 13-1, SHEET 13)</b><br>APPLY FILLET SEAL AROUND PARTS OF 12 O'CLOCK STRUT ASSY (5) IDENTIFIED BELOW USING sealant, A00803 (C3) OR sealant, A50096 (C4).<br>MAKE SURE ALL AREAS IDENTIFIED BELOW ARE FLUSH AND/OR SMOOTH WITH SURROUNDING SURFACES.<br>IF sealant, A00803 (C3) IS USED, MAKE SURE ALL FILLET SURFACES HAVE BEEN PRIMED USING Dapco No. 1-100 primer, C00944 (C2) BEFORE SEALANT APPLICATION. <ol style="list-style-type: none"> <li>1. TRANSITION FITTINGS AND 12 O'CLOCK STRUT.</li> <li>2. TRANSITION FITTINGS AND ENGINE EXTENSION RING.</li> <li>3. BOLT (200) CAVITY AND ENGINE EXTENSION RING.</li> <li>4. FWD EDGE OF TRANSITION FITTINGS AND ENGINE EXTENSION RING.</li> <li>5. 12 O'CLOCK STRUT AND CTAI DUCT.</li> <li>6. 12 O'CLOCK STRUT LOWER FLANGE AND ENGINE EXTENSION RING.</li> <li>7. 12 O'CLOCK STRUT AND ENGINE OUTER FAN CASE.</li> </ol> |     |     |
| C2       | C00944      | . DAPCO NO. 1-100 PRIMER  | CON | AR  |
| C3       | A00803      | . SEALANT   | CON | AR  |
| C4       | A50096      | . SEALANT   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 13-1**

Page 27

Jun 15/2016

D633A106-AKS

**FIGURE 14-1**

**BLEED CONTROLLER INSTALLATION**

**REF QEC TASK NO.: 14**

**REF DWG: 332A2300  
332A2100**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

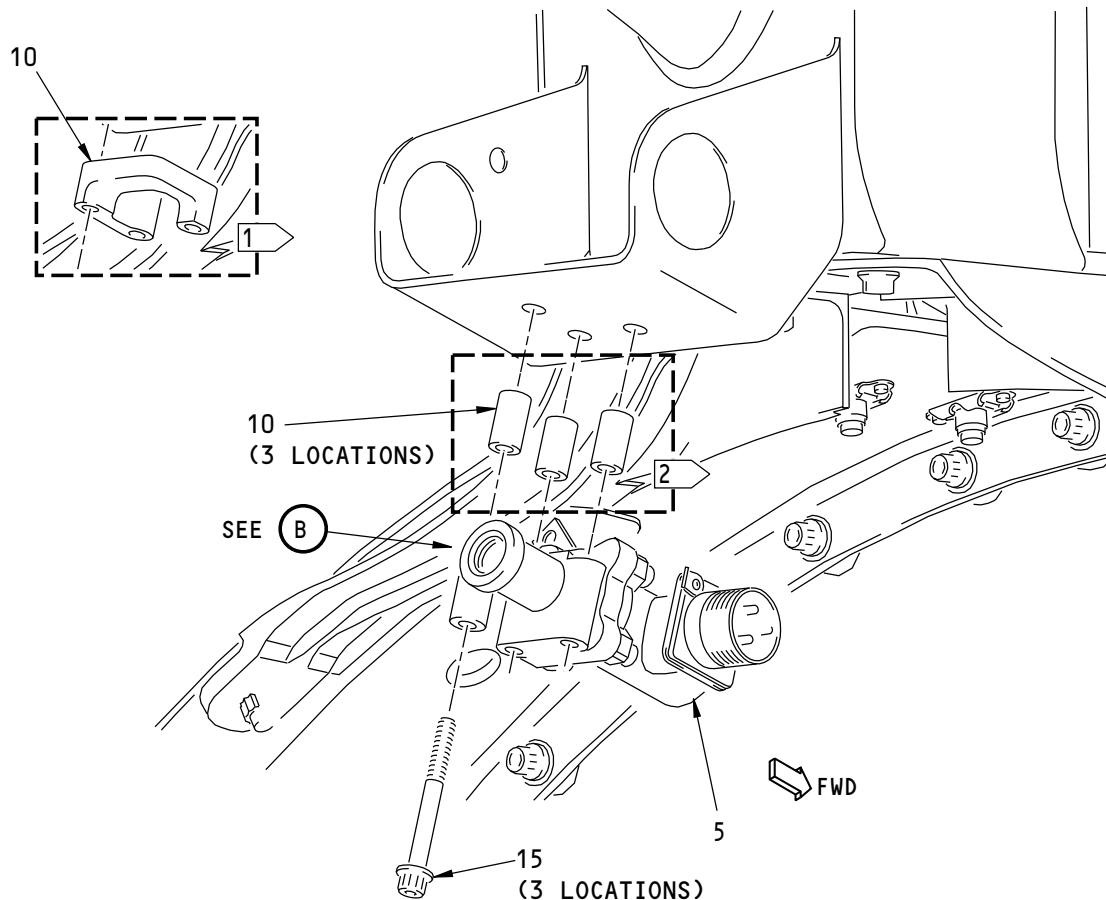
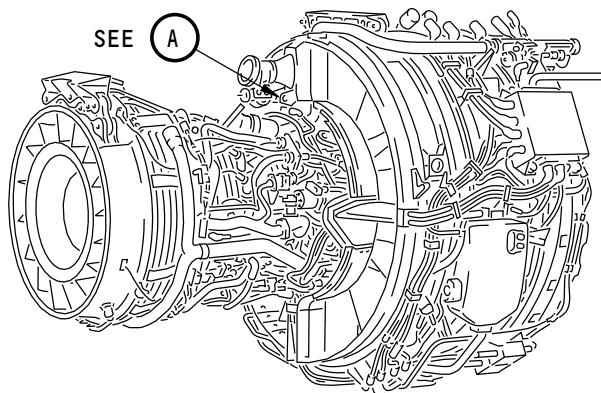
**P/P BUILDUP FIGURE 14-1**

Page 1

Jun 15/2016

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1 ▶ OPTIONAL CONFIGURATION

2 ▶ PREFERRED CONFIGURATION

A

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**Bleed Controller Installation**  
**Figure 14-1 (Sheet 1)**

**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 2

Jun 15/2016

D633A106-AKS

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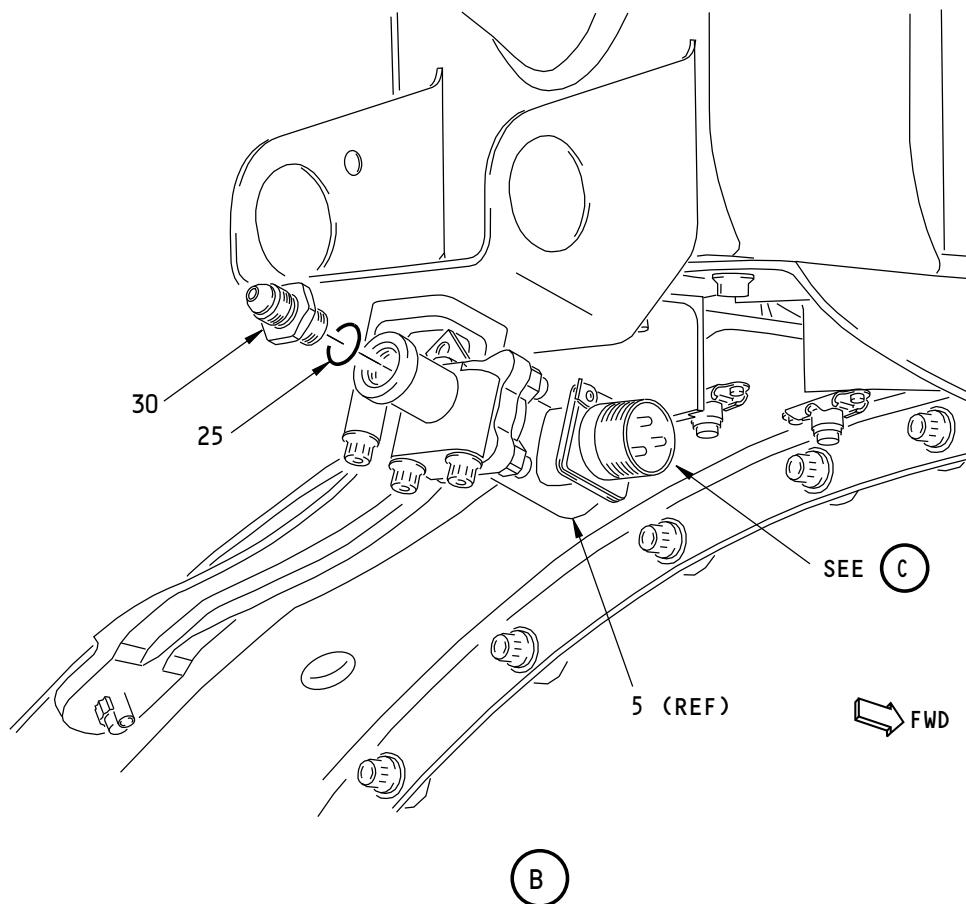
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 14-1     |               | <b>BLEED CONTROLLER INSTALLATION</b><br><b>(FIGURE 14-1, SHEET 1)</b><br><br>ROTATE BONDING TAB ON VALVE (5) TO GIVE A MINIMUM OF 0.25 INCH (6.4 MM) OF CLEARANCE WITH STRUCTURE.<br><br>CLEAN MATING SURFACES OF VALVE (5), SPACERS (10) OR SPACER BLOCK (10) AND ENGINE BRACKET WITH alcohol, B00130 (C1).<br><br>MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS. |     |     |
| 5        | 320548-2      | . VALVE, GROUND WING TAI TEMP SOLENOID (V59364) (SPEC 10-62008-22)  | VEN | 1   |
| 10       | NAS1057T3-050 | . SPACER  |     | 3   |
| 10       | 332A2930-49   | . SPACER BLOCK (1 REQD)   | OPT | -   |
| C1       | B00130        | . ALCOHOL   | CON | AR  |
|          |               | INSTALL VALVE (5) ON BOTTOM BRACKET ON 12 O'CLOCK STRUT SUCH THAT ELECTRICAL CONNECTOR IS ON RIGHT SIDE.  |     |     |
|          |               | INSTALL WITH SPACERS (10) OR SPACER BLOCK (10) AND BOLTS (15).  |     |     |
| 15       | BACB30ZF3-28  | . BOLT<br><br>TIGHTEN BOLTS (15) TO 50-56 POUND-INCHES (5.6-6.3 NEWTON METERS).   |     | 3   |

**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 3

Jun 15/2016

D633A106-AKS



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**Bleed Controller Installation  
Figure 14-1 (Sheet 2)**

**71-00-02**  
**P/P BUILDUP FIGURE 14-1**  
Page 4  
Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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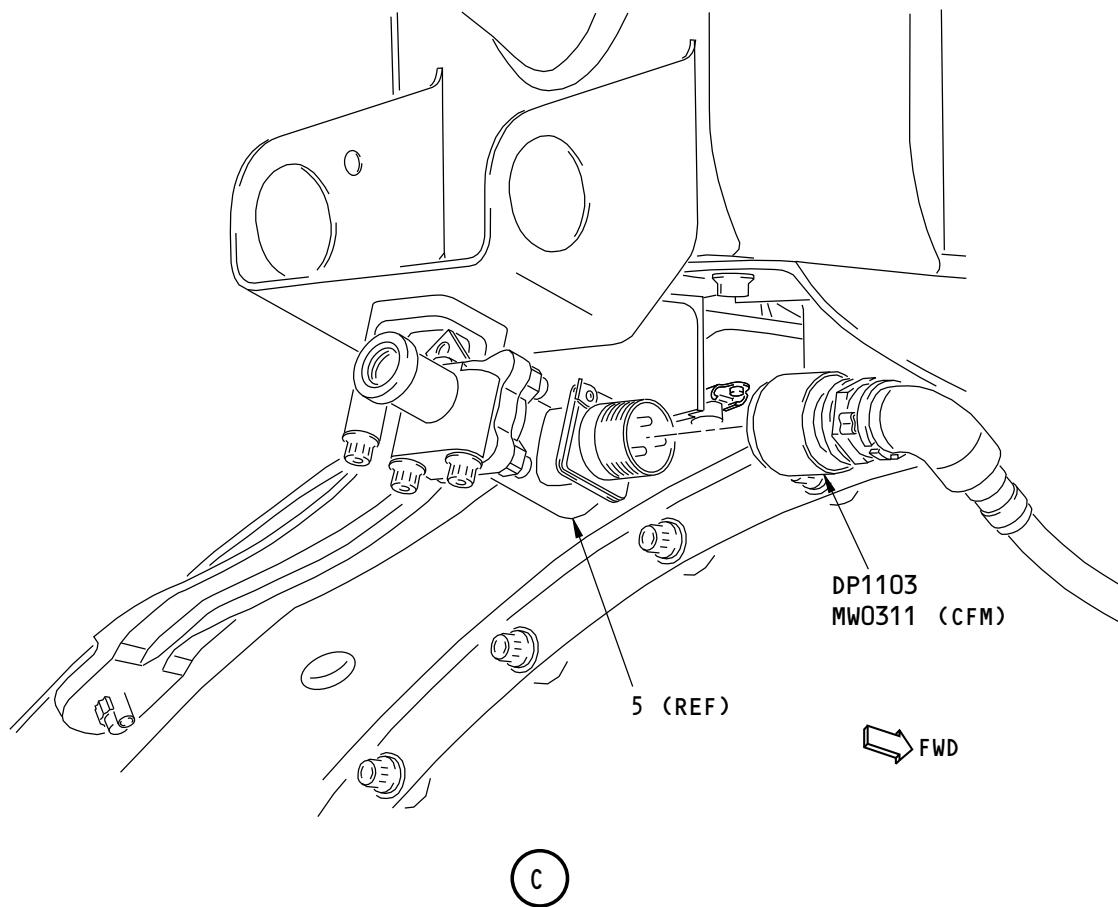
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 14-1     |               | <b>BLEED CONTROLLER INSTALLATION<br/>(FIGURE 14-1, SHEET 2)</b><br><br>INSTALL O-RING (25) ON UNION (30).<br><br>LUBRICATE THREADS OF UNION (30) WITH Never-Seez NSBT compound, D00006 (C2) AND INSTALL UNION (30) ON VALVE (5). |     |     |
| 25       | 801A50-0004-A | . O-RING (V15284)  | VEN | 1   |
| 25       | 801A50-0004A  | . O-RING (V15284) (OPTIONAL TO 801A50-0004-A)  | OPT | -   |
| 30       | J1238P54      | . UNION (V07482)   | VEN | 1   |
| C2       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN UNION (30) TO 133-147 POUND-INCHES (15-17 NEWTON METERS).   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 5

Jun 15/2016

D633A106-AKS



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**Bleed Controller Installation  
Figure 14-1 (Sheet 3)****71-00-02****P/P BUILDUP FIGURE 14-1**

Page 6

Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 14-1     |             | <p><b>BLEED CONTROLLER INSTALLATION<br/>(FIGURE 14-1, SHEET 3)</b></p> <p><b>CAUTION:</b> DO NOT OVERTIGHTEN THE PLUG COUPLING RING. DO NOT USE WATER PUMP PLIERS, PIPE WRENCHES OR VISE GRIPS TO TIGHTEN THE COUPLING RING OR DAMAGE TO THE ELECTRICAL CONNECTOR CAN OCCUR.</p> <p>CONNECT MW0311 ELECTRICAL CONNECTOR, DP1103, TO RECEPTACLE ON GROUND WING TAI TEMP SOLENOID VALVE (5). TURN KNULED COUPLING RING WHILE WIGGLING THE BACKSHELL ASSEMBLY.</p> <p>AFTER FULLY SEATING THE COUPLING RING, USE SOFT-JAWED PLIERS OR A STRAP WRENCH TO TIGHTEN THE COUPLING RING AN ADDITIONAL 1/8-TURN OR UNTIL PLIER SLIPPAGE OCCURS.</p> |    |     |

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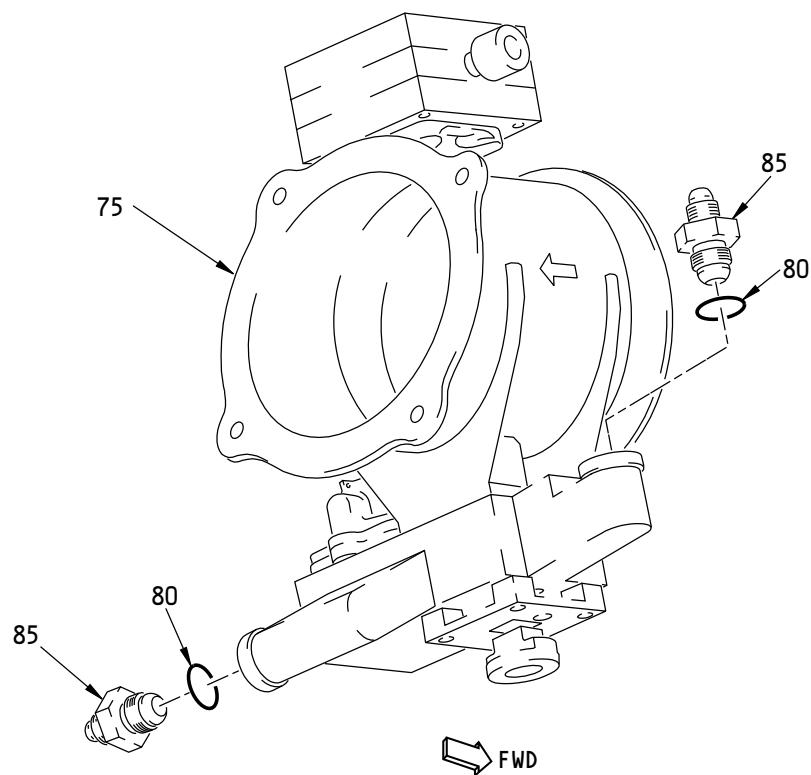
**P/P BUILDUP FIGURE 14-1**

Page 7

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

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Bleed Controller Installation  
Figure 14-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 14-1

Page 8

Jun 15/2016

D633A106-AKS

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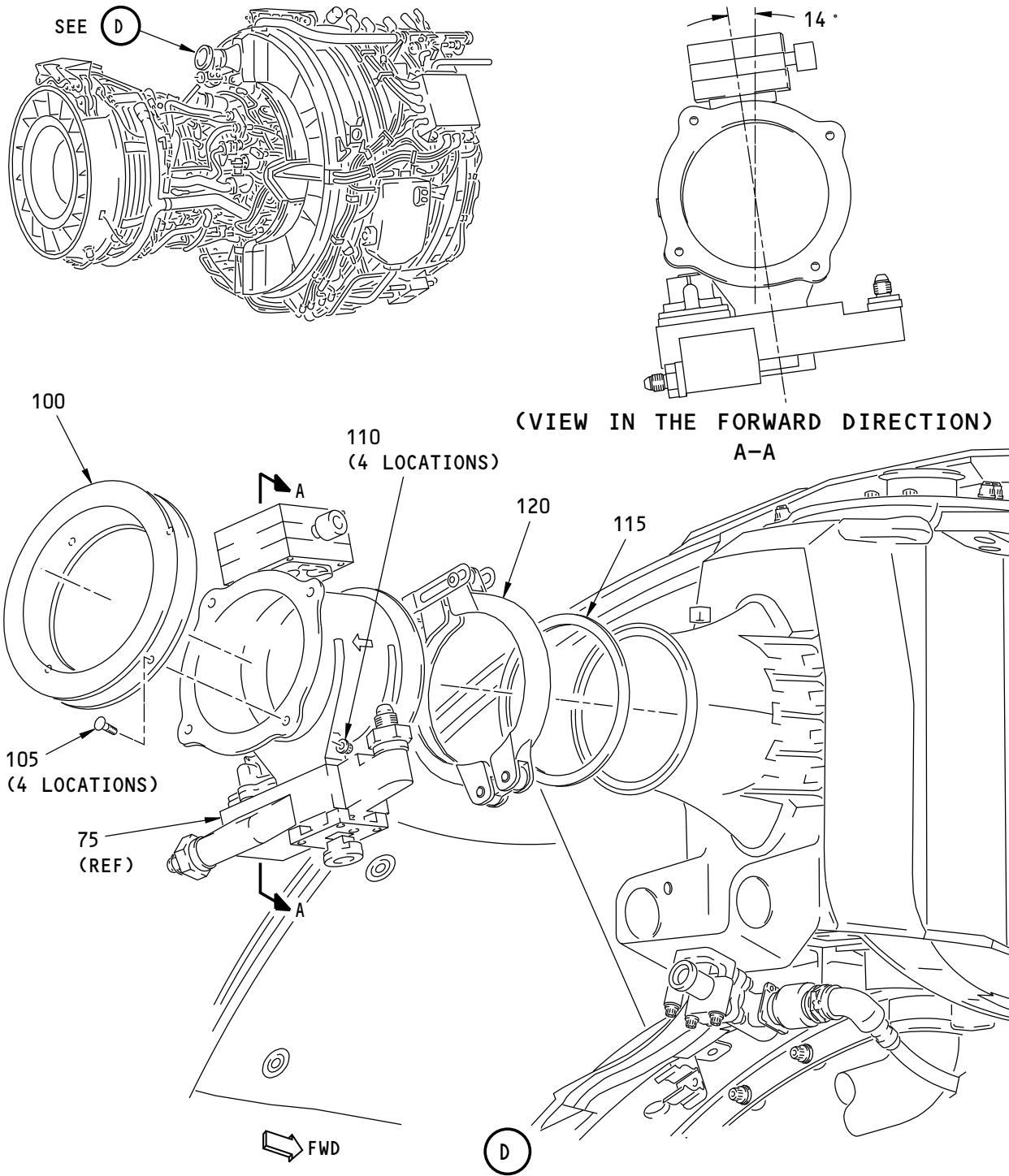
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 14-1     |               | <b>BLEED CONTROLLER INSTALLATION</b><br><b>(FIGURE 14-1, SHEET 4)</b><br><br>INSTALL ONE O-RING (80) ON EACH REDUCER (85).<br><br>LUBRICATE THREADS OF REDUCERS WITH Never-Seez NSBT compound, D00006 (C2) AND INSTALL ON PRECOOLER CONTROL VALVE (75). |     |     |
| 75       | 63292146-1    | . PRECOOLER CONTROL VALVE (V59364) (SPEC 10-62008-48)   | VEN | 1   |
| 75       | 3289562-5     | . PRECOOLER CONTROL VALVE (V59364) (SPEC 10-62008-33 )<br>(REPLACED BY 63292146-1)  | LTD | -   |
| 75       | 3289562-7     | . PRECOOLER CONTROL VALVE (V59364) (SPEC 10-62008-47) (REPLACED BY 3289562-5)   | LTD | -   |
| 80       | 801A50-0006-A | . O-RING (V15284)   | VEN | 2   |
| 80       | 801A50-0006A  | . O-RING (V15284) (OPTIONAL TO 801A50-0006-A)   | OPT | -   |
| 85       | J522P53       | . REDUCER (V90806)  | VEN | 2   |
| C2       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN REDUCERS (85) TO 258-284 POUND-INCHES (29-32 NEWTON METERS).<br><br>INSTALL PROTECTIVE CAPS ON ENDS OF UNION (30) AND REDUCER (85).  | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 9

Jun 15/2016

D633A106-AKS



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Bleed Controller Installation  
Figure 14-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 14-1

Page 10

Jun 15/2016

D633A106-AKS

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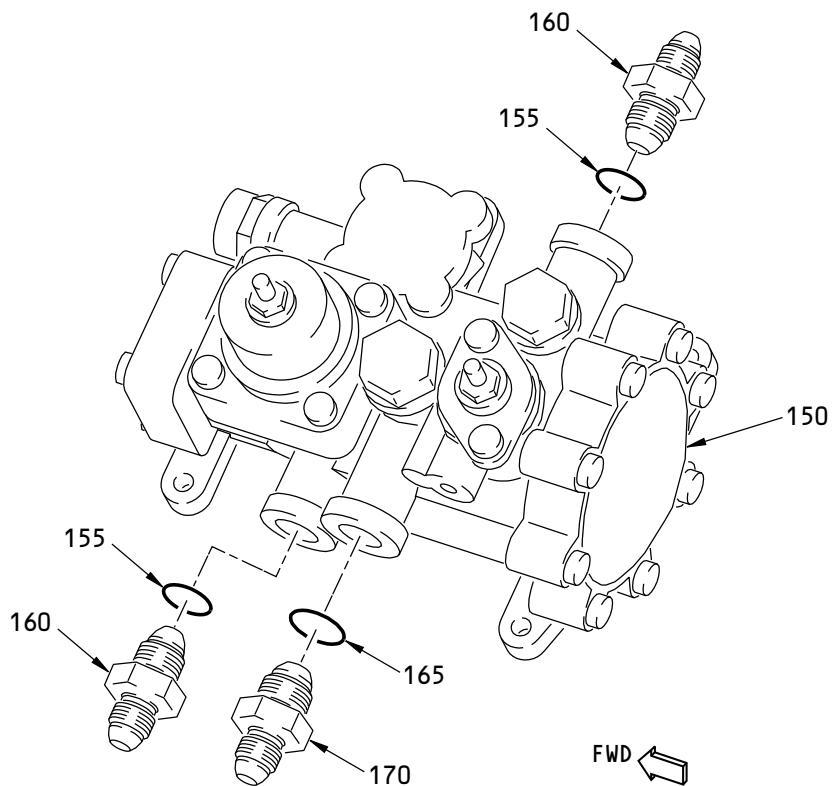
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 14-1     |              | <b>BLEED CONTROLLER INSTALLATION<br/>(FIGURE 14-1, SHEET 5)</b><br><br>INSTALL SEAL (100) ON PRECOOLER CONTROL VALVE (75) WITH BOLTS (105) AND NUTS (110).<br>. SEAL (V60980)<br>. BOLT<br>. NUT<br><br>TIGHTEN BOLTS (105) UNTIL 1 1/2 TO 2 THREADS EXTEND OUT FROM NUTS (110).<br><br><u>NOTE:</u> REQUIRED TORQUE RANGE IS 25-35 POUND-INCHES (2.8-3.9 NEWTON METERS) FOR SEAL 82C10020-2.<br>INSTALL A PROTECTIVE COVER OVER THE SEAL OPENING.<br>POSITION SEAL (115) AND VALVE (75) ON 12 O'CLOCK STRUT FLANGE WITH VALVE ORIENTED AS SHOWN.<br>LOOSELY CONNECT WITH COUPLING (120).<br>MAKE SURE COUPLING IS POSITIONED AS SHOWN. LOOSELY TIGHTEN COUPLING BOLT.<br><br><u>NOTE:</u> COUPLING ORIENTATION ALLOWS ADEQUATE TOOL ACCESS TO COUPLING NUT WHEN VALVE IS REPLACED WITH T/R INSTALLED.<br><br><u>NOTE:</u> DO NOT TIGHTEN COUPLING AT THIS TIME. FINAL ORIENTATION OF VALVE WILL OCCUR DURING UPPER BLEED CONTROL INSTALLATION (REF BLEED CONTROL SYSTEM INSTALLATION - UPPER/Figure 17-1). |     |     |
| 100      | 82C10020-2   |   | VEN | 1   |
| 105      | BACB30LH3U4  |   |     | 4   |
| 110      | AS3485-09    |   |     | 4   |
| 115      | AS1895-7-400 | . SEAL  |     | 1   |
| 115      | AS1895/7-400 | . SEAL (OPTIONAL TO AS1895-7-400)   | OPT | -   |
| 120      | AS1895-4-400 | . COUPLING  |     | 1   |
| 120      | AS1895/4-400 | . SEAL (OPTIONAL TO AS1895-4-400)   | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 11

Jun 15/2016

D633A106-AKS

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Bleed Controller Installation  
Figure 14-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 14-1

Page 12

Jun 15/2016

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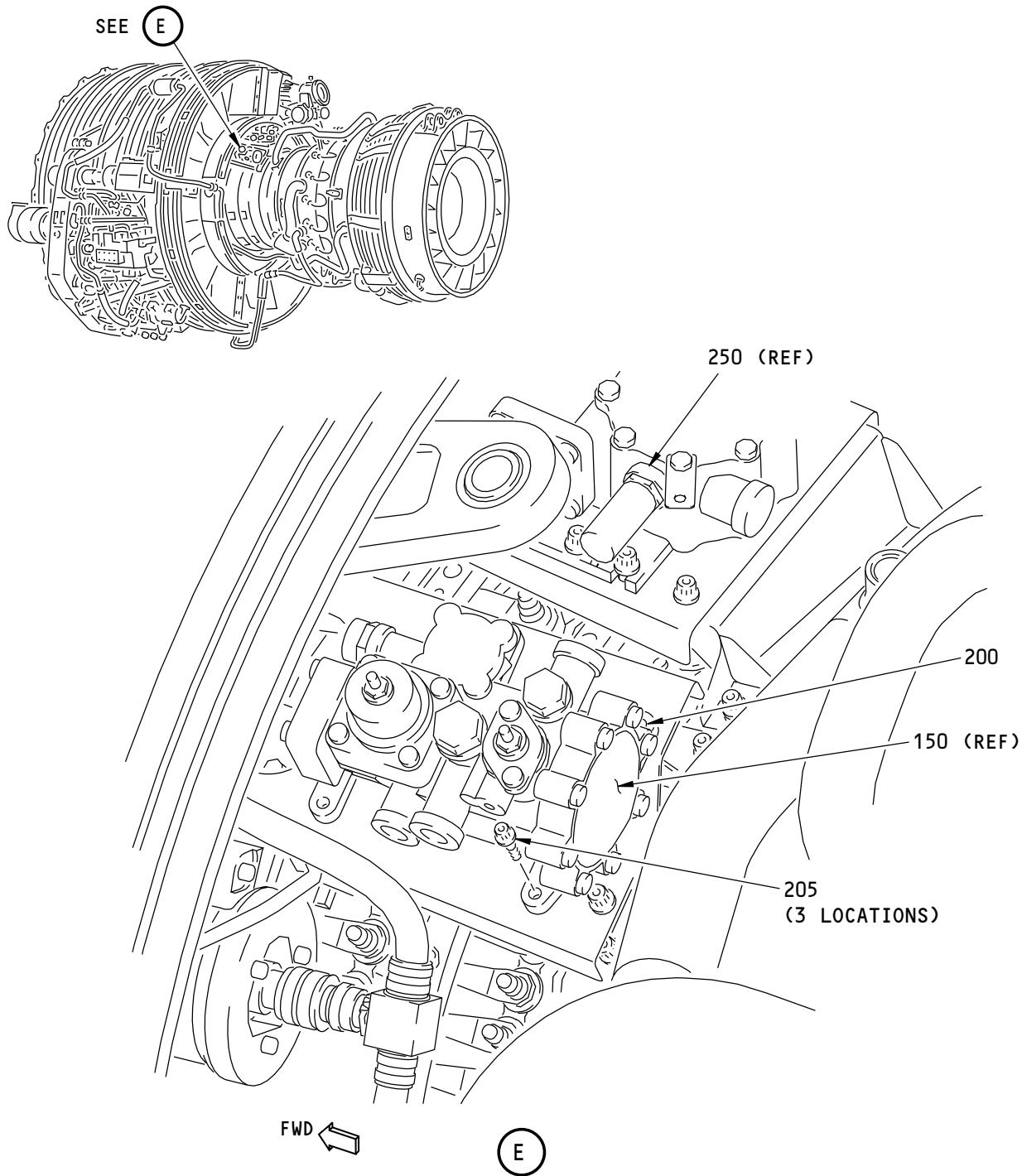
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 14-1     |               | <b>BLEED CONTROLLER INSTALLATION</b><br><b>(FIGURE 14-1, SHEET 6)</b><br><br>INSTALL ONE O-RING (155) ON EACH REDUCER (160) AND<br>INSTALL O-RING (165) ON REDUCER (170).<br><br>LUBRICATE THREADS OF REDUCERS WITH Never-Seez NSBT<br>compound, D00006 (C2) AND INSTALL ON HIGH STAGE<br>REGULATOR (150) AS SHOWN. |     |     |
| 150      | 107484-7      | . HIGH STAGE REGULATOR (V59364)   | VEN | 1   |
| 155      | 801A50-0005-A | . O-RING (V15284)   | VEN | 2   |
| 155      | 801A50-0005A  | . O-RING (V15284) (OPTIONAL TO 801A50-0005-A)   | OPT | -   |
| 160      | J522P52       | . REDUCER (V96941)  | VEN | 2   |
| 165      | 801A50-0006-A | . O-RING (V15284)   | VEN | 1   |
| 165      | 801A50-0006A  | . O-RING (V15284) (OPTIONAL TO 801A50-0006-A)   | OPT | -   |
| 170      | J522P53       | . REDUCER (V90806)  | VEN | 1   |
| C2       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN REDUCERS (160) TO 180-200 POUND-INCHES (20-22<br>NEWTON METERS) AND TIGHTEN REDUCER (170) TO 258-284<br>POUND-INCHES (29-32 NEWTON METERS).  | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 13

Jun 15/2016

D633A106-AKS



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**Bleed Controller Installation**  
**Figure 14-1 (Sheet 7)**

**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC | QTY |
|----------|--------------|--|----|-----|
| 14-1     |              | <b>BLEED CONTROLLER INSTALLATION</b><br><b>(FIGURE 14-1, SHEET 7)</b><br><br>ATTACH HIGH STAGE REGULATOR (150) TO ENGINE CORE BRACKET.<br><br>USE BOLT (200) AT UPPER AFT LOCATION AND BOLTS (205) AT REMAINING LOCATIONS. |    |     |
| 200      | BACB30ZF3-10 | . BOLT   |    | 1   |
| 205      | BACB30ZF3-09 | . BOLT<br><br>TIGHTEN BOLTS (200) AND (205) TO 34-36 POUND-INCHES (3.8-4.1 NEWTON METERS).   |    | 3   |

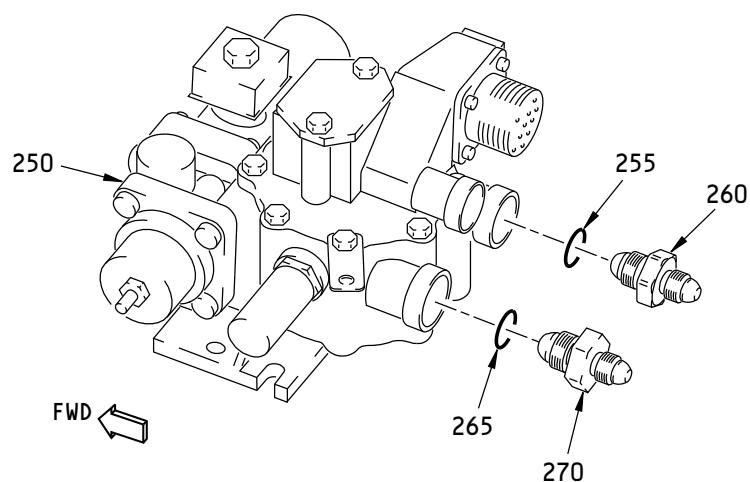
**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 15

Jun 15/2016

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**Bleed Controller Installation  
Figure 14-1 (Sheet 8)****71-00-02****P/P BUILDUP FIGURE 14-1**

Page 16

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 14-1     |               | <b>BLEED CONTROLLER INSTALLATION</b><br><b>(FIGURE 14-1, SHEET 8)</b><br><br>INSTALL O-RING (255) ON REDUCER (260) AND INSTALL O-RING (265) ON REDUCER (270).<br>APPLY Never-Seez NSBT compound, D00006 (C2) TO THREADS OF REDUCERS.<br><br>INSTALL REDUCER (260) IN TOP PORT OF REGULATOR AND INSTALL REDUCER (270) IN BOTTOM PORT OF REGULATOR (250). |     |     |
| 250      | 107492-6      | . BLEED AIR REGULATOR (V59364) (SPEC 10-62008-41)   | VEN | 1   |
| 255      | 801A50-0005-A | . O-RING (V15284)   | VEN | 1   |
| 255      | 801A50-0005A  | . O-RING (V15284) (OPTIONAL TO 801A50-0005-A)   | OPT | -   |
| 260      | J522P52       | . REDUCER (V96941)  | VEN | 1   |
| 265      | 801A50-0006-A | . O-RING (V15284)   | VEN | 1   |
| 265      | 801A50-0006A  | . O-RING (V15284) (OPTIONAL TO 801A50-0006-A)   | OPT | -   |
| 270      | J522P53       | . REDUCER (V90806)  | VEN | 1   |
| C2       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN REDUCER (260) TO 180-200 POUND-INCHES (20-22 NEWTON METERS). TIGHTEN REDUCER (270) TO 258-284 POUND-INCHES (29-32 NEWTON METERS).<br><br>INSTALL PROTECTIVE CAPS ON ENDS OF REDUCERS (260) AND (270).  | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 17

Jun 15/2016

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Bleed Controller Installation  
Figure 14-1 (Sheet 9)

**71-00-02**

**P/P BUILDUP FIGURE 14-1**

Page 18

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
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| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 14-1     |             | BLEED CONTROLLER INSTALLATION<br>(FIGURE 14-1, SHEET 9)<br>THIS SHEET NOT USED |    |     |

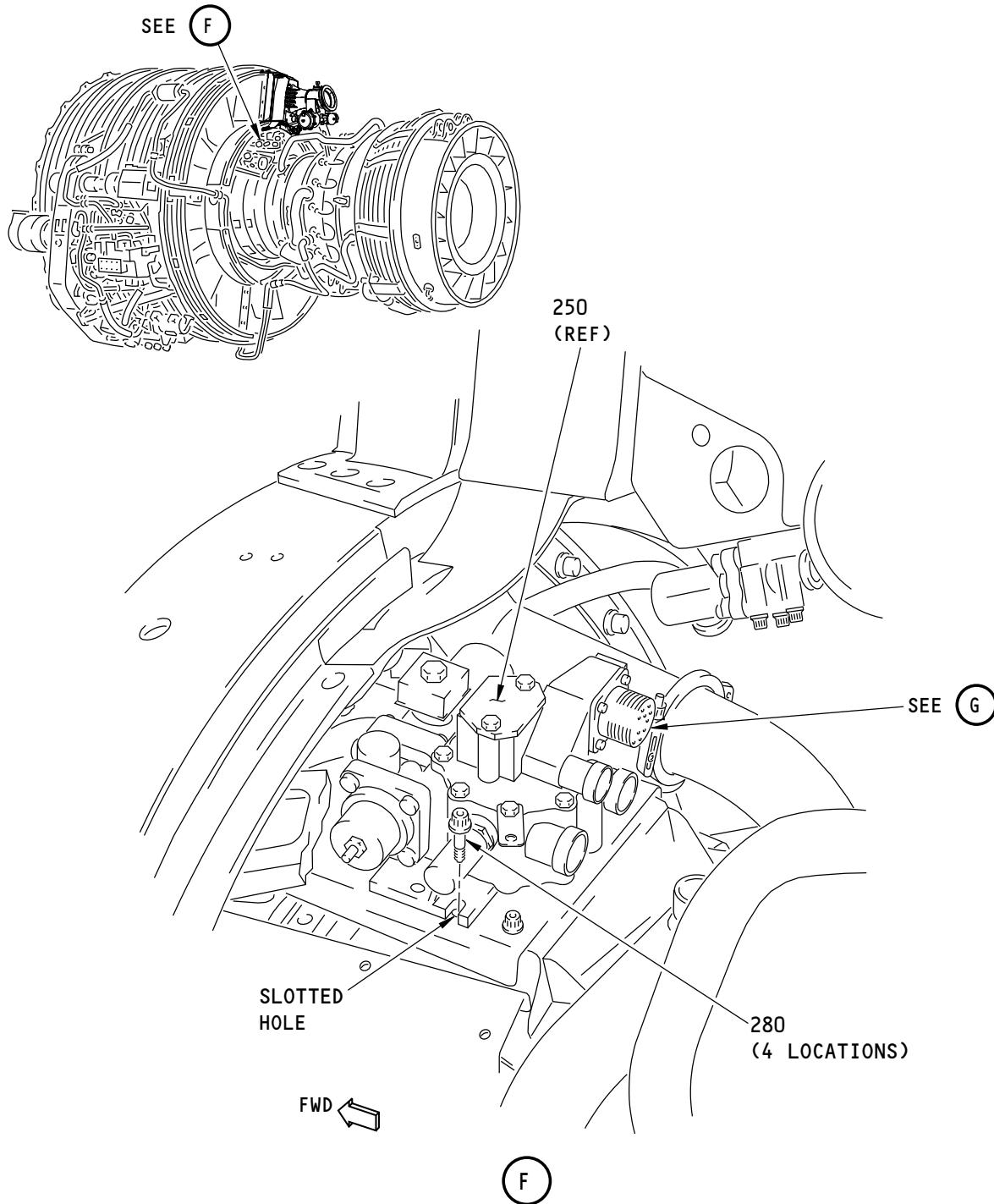
**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 19

Jun 15/2016

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Bleed Controller Installation  
Figure 14-1 (Sheet 10)

71-00-02

P/P BUILDUP FIGURE 14-1

Page 20

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO.    | PART NUMBER  | NOMENCLATURE  | UC | QTY |
|-------------|--------------|---|----|-----|
| 14-1<br>280 | BACB30ZF4-08 | <p><b>BLEED CONTROLLER INSTALLATION<br/>(FIGURE 14-1, SHEET 10)</b></p> <p>INSTALL ONE BOLT (280) IN AFT OUTBOARD HOLE OF UPPER CORE BRACKET.</p> <p>PUT SLOTTED HOLE OF BLEED AIR REGULATOR OVER BOLT AND INSTALL REMAINING BOLTS (280).</p> <p>. BOLT</p> <p>TIGHTEN BOLTS (280) TO 78-82 POUND-INCHES (8.8-9.3 NEWTON METERS).</p> |    | 4   |

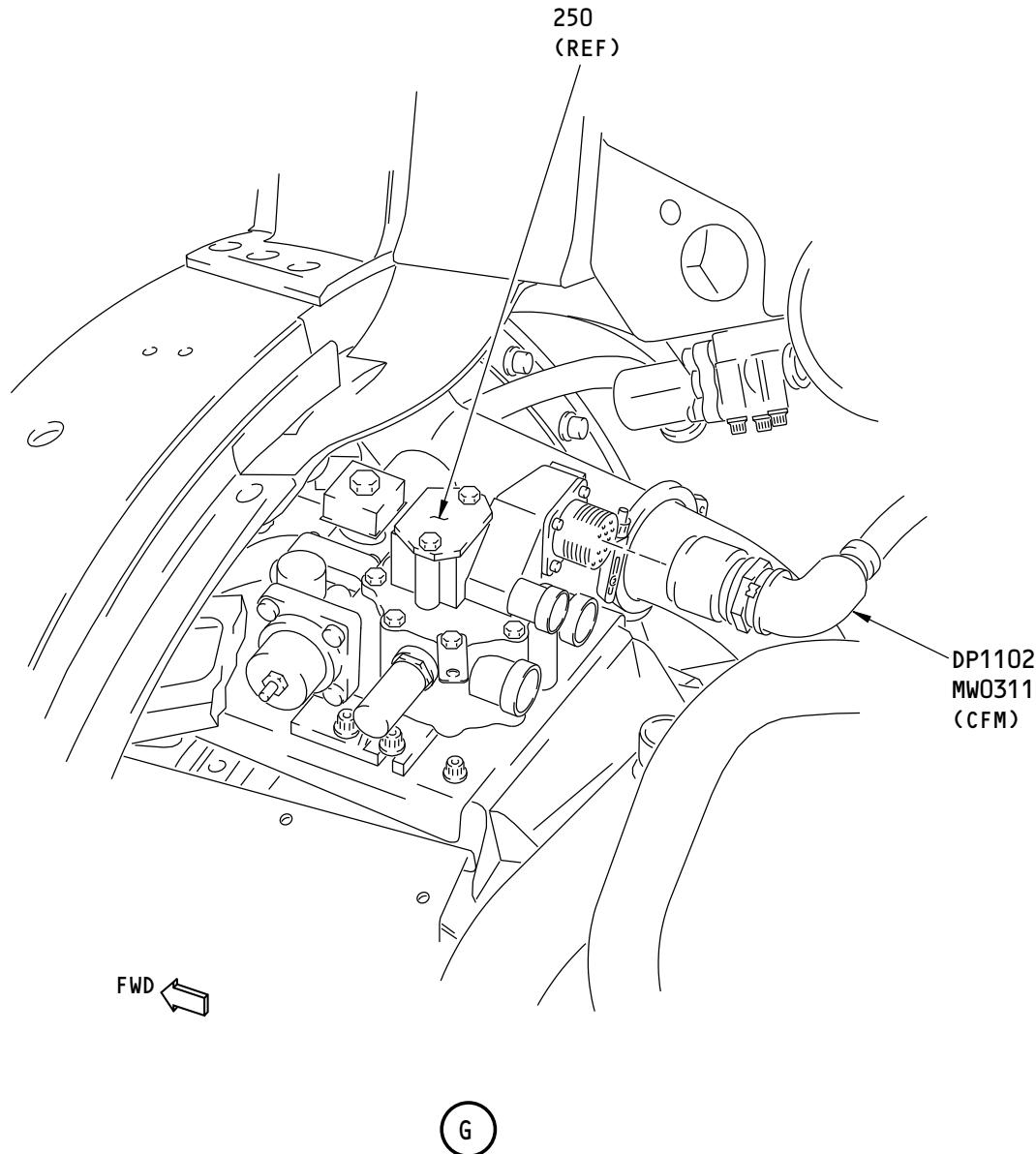
**71-00-02****P/P BUILDUP FIGURE 14-1**

Page 21

Jun 15/2016

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Bleed Controller Installation  
Figure 14-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 14-1

Page 22

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 14-1     |             | <p><b>BLEED CONTROLLER INSTALLATION</b><br/> <b>(FIGURE 14-1, SHEET 11)</b></p> <p><b>CAUTION:</b> DO NOT OVERTIGHTEN THE PLUG COUPLING RING. DO NOT USE WATER PUMP PLIERS, PIPE WRENCHES OR VISE GRIPS TO TIGHTEN THE COUPLING RING OR DAMAGE TO THE ELECTRICAL CONNECTOR CAN OCCUR.</p> <p>CONNECT MW0311 ELECTRICAL CONNECTOR, DP1102, TO RECEPTACLE ON BLEED AIR REGULATOR.</p> <p>TURN KNULED COUPLING RING WHILE WIGGLING THE BACKSHELL ASSEMBLY.</p> <p>AFTER FULLY SEATING THE COUPLING RING, USE SOFT-JAWED PLIERS OR A STRAP WRENCH TO TIGHTEN THE COUPLING RING AN ADDITIONAL 1/8-TURN OR UNTIL PLIER SLIPPAGE OCCURS.</p> |    |     |

**71-00-02**

**P/P BUILDUP FIGURE 14-1**

Page 23

Jun 15/2016

D633A106-AKS

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**FIGURE 15-1**

**BLEED CONTROL SYSTEM INSTALLATION -  
LOWER**

**REF QEC TASK NO.: 15**

**REF DWG: 332A2100**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

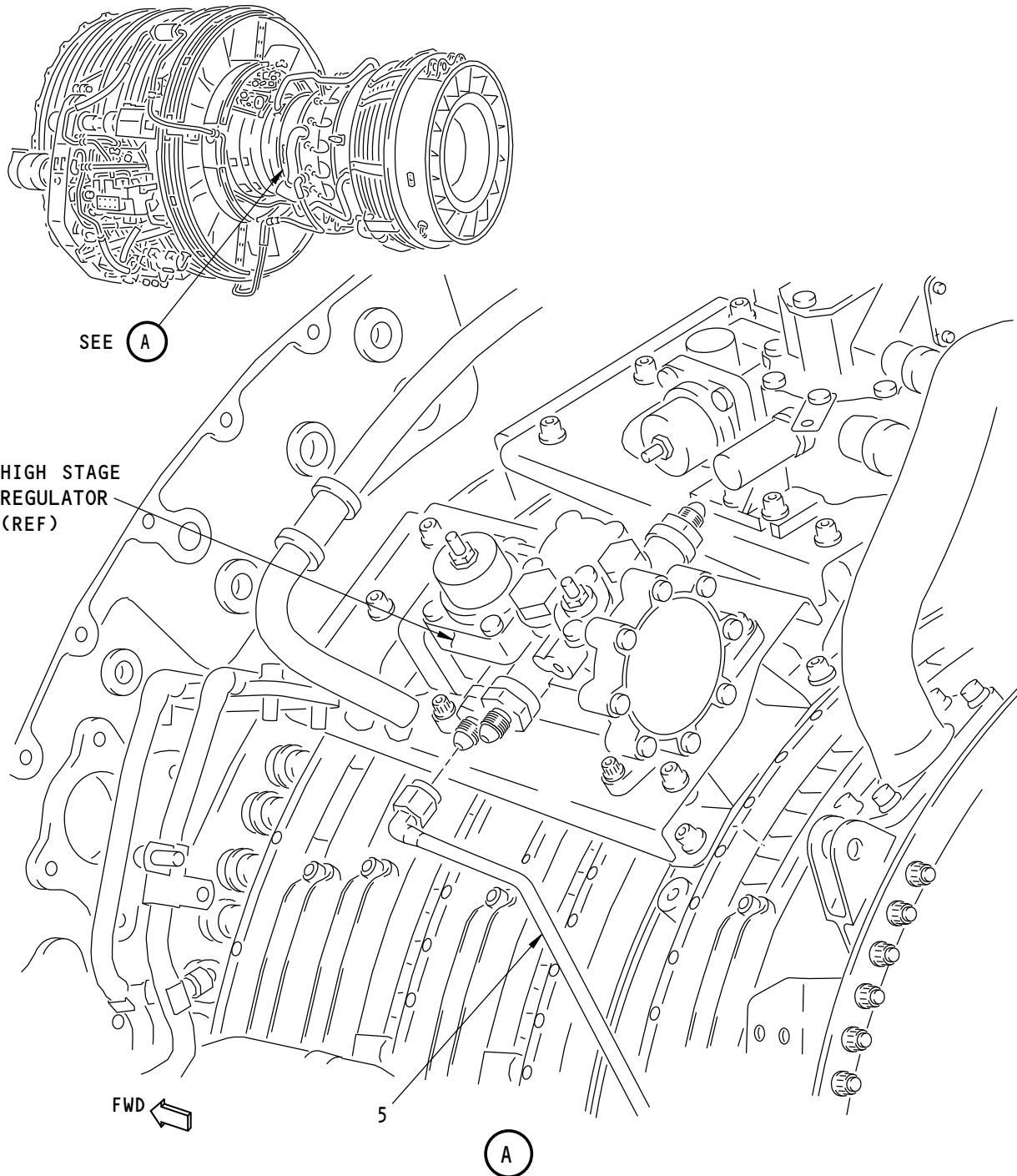
**P/P BUILDUP FIGURE 15-1**

**Page 1**

**Jun 15/2016**

**D633A106-AKS**

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F14422 S00041153824\_V1

**Lower Bleed Control System Installation**  
**Figure 15-1 (Sheet 1)**

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 2

Jun 15/2016

D633A106-AKS

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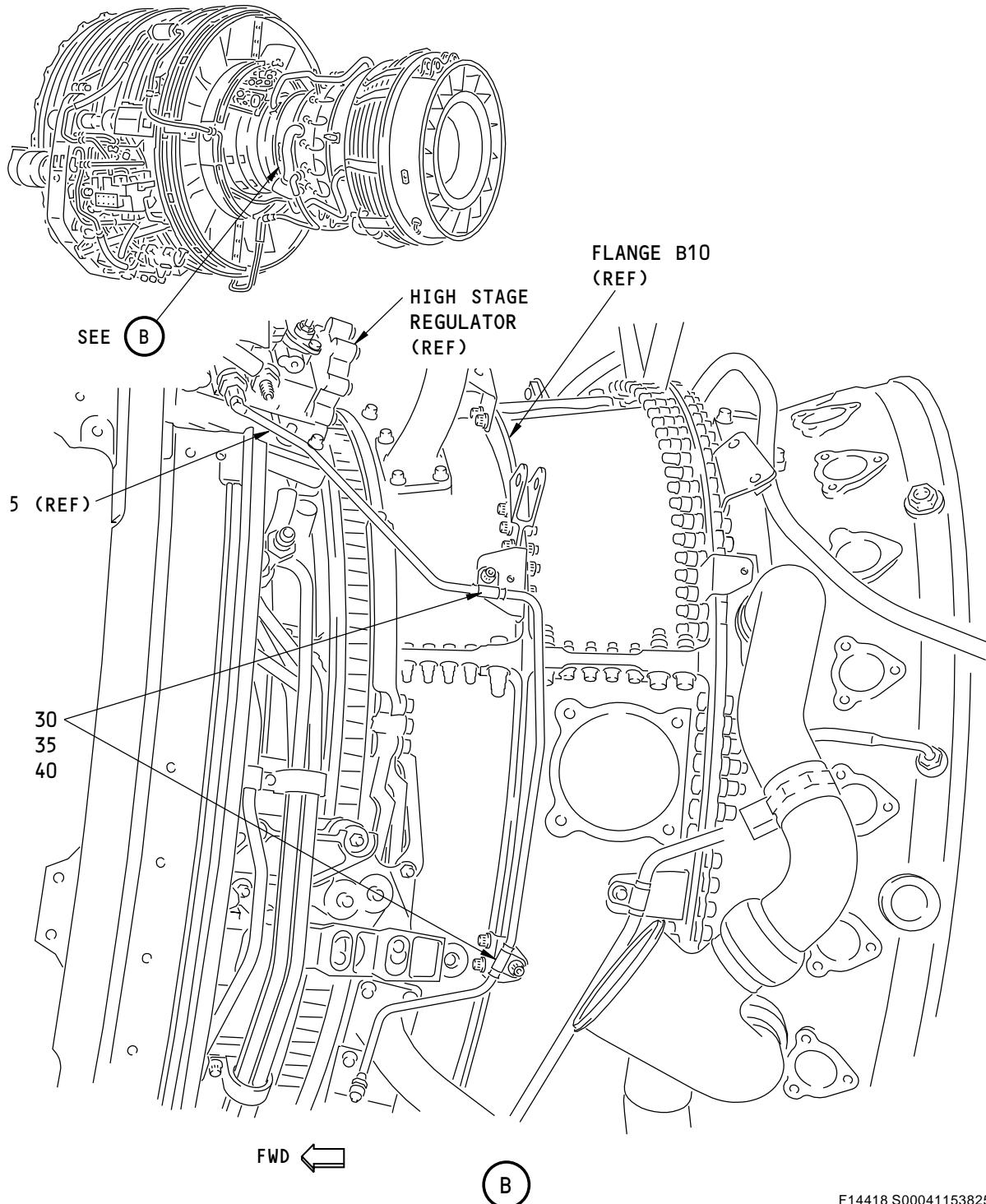
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 15-1     |             | <b>LOWER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 15-1, SHEET 1)</b> <p><b>NOTE:</b> IN THIS PROCEDURE, DO NOT TIGHTEN SCREWS AND TUBE OR HOSE NUTS TO THE INDICATED TORQUE UNTIL INSTRUCTED.</p> <p>WHEN TIGHTENING TUBE AND HOSE NUTS, USE TWO WRENCHES; ONE TO HOLD THE SPANNER FLATS ON THE NIPPLE AND ONE TO TIGHTEN THE NUT.</p> <p>ALL TUBE NUTS HAVE A DRY-FILM LUBRICANT AND DO NOT NEED ADDITIONAL LUBRICATION.</p> <p>TO REDUCE CLAMP DISTORTION UPON INSTALLATION, APPLY Never-Seez NSBT compound, D00006 (C1) TO BOLT HEAD SURFACE THAT COMES INTO CONTACT WITH THE CLAMP. APPLY TO BOLT HEAD UNDERSIDE ONLY. DO NOT APPLY TO BOLT THREADS.</p> |     |     |
| C1       | D00006      | . NEVER-SEEZ NSBT-8N COMPOUND<br>LOOSELY ATTACH TUBE (5) TO UNION ON FWD PORT OF HIGH STAGE REGULATOR.  | CON | AR  |
| 5        | 332A2350-9  | . TUBE ASSY   |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 3

Jun 15/2016

D633A106-AKS



F14418 S00041153825\_V1

Lower Bleed Control System Installation  
Figure 15-1 (Sheet 2)

**71-00-02**  
P/P BUILDUP FIGURE 15-1  
Page 4  
Jun 15/2016

D633A106-AKS

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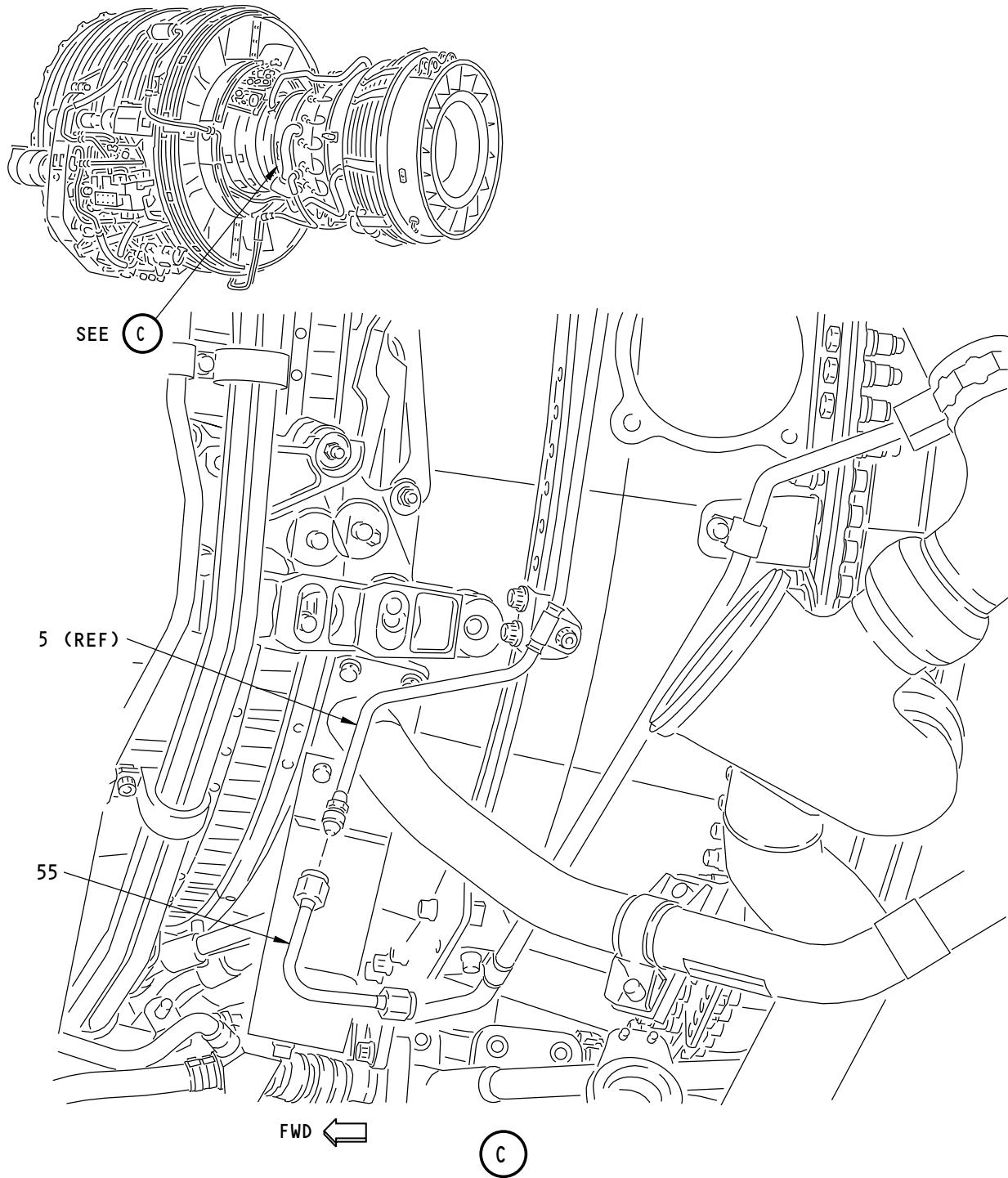
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 15-1     |              | <b>LOWER BLEED CONTROL SYSTEM INSTALLATION (FIGURE 15-1, SHEET 2)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLTS (40). LOOSELY ATTACH TUBE (5) TO ENGINE BRACKETS AT 8 AND 9 O'CLOCK POSITIONS ON FLANGE B10 WITH CLAMPSHELLS (30), CLAMPS (35) AND BOLTS (40).<br><br><b>NOTE:</b> USE FWD HOLE ON BRACKET LOCATED AT 9 O'CLOCK POSITION. |     |     |
| 30       | BACC10GT2-04 | . CLAMPSHELL   |     | 4   |
| 30       | 9352M41P16   | . CLAMPSHELL (V83930) (OPTIONAL)   | OPT | -   |
| 35       | 1794M49P01   | . CLAMP (V96941)   | VEN | 2   |
| 40       | BACB30ZF4-06 | . BOLT   |     | 2   |
| 40       | BACB30ZF4-05 | . BOLT (REPLACED BY BACB30ZF4-06)  | LTD | -   |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>MAKE SURE NO PRELOAD FORCE ON TUBE, OR REGULATOR IS PRESENT.<br><br>IF PRELOAD IS PRESENT, ADJUST TUBE (5) AND CLAMPS (35) TO BEST POSITION.<br><br>TIGHTEN BOLTS (40) TO 60-70 POUND-INCHES (6.8-7.9 NEWTON METERS).<br>TIGHTEN TUBE ASSY (5) TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS).<br>BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.        | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 5

Jun 15/2016

D633A106-AKS



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Lower Bleed Control System Installation  
Figure 15-1 (Sheet 3)

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 6

Jun 15/2016

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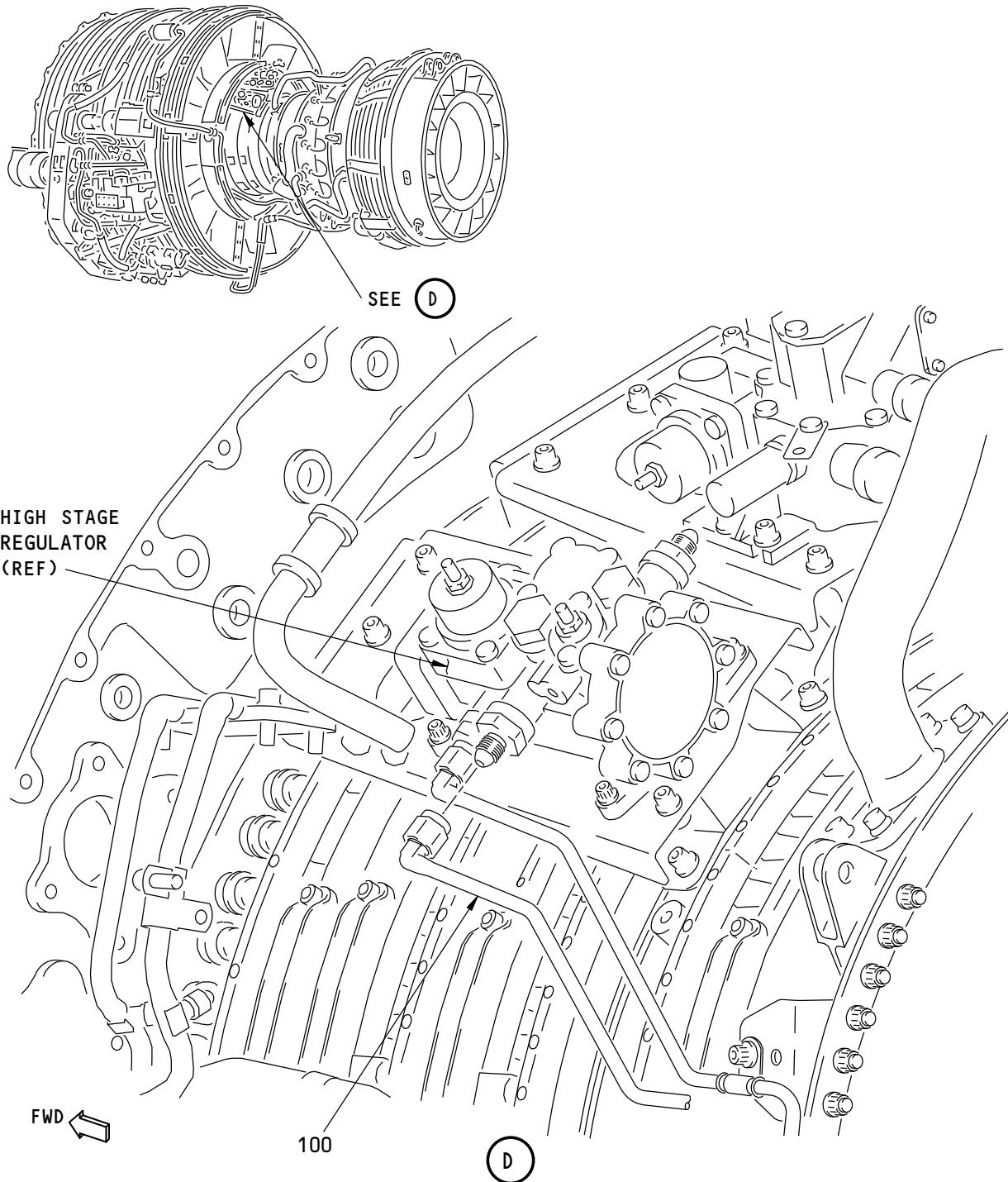
| ITEM NO.   | PART NUMBER | NOMENCLATURE   | UC | QTY |
|------------|-------------|--|----|-----|
| 15-1<br>55 | 332A2350-11 | <p><b>LOWER BLEED CONTROL SYSTEM INSTALLATION (FIGURE 15-1, SHEET 3)</b></p> <p>LOOSELY INSTALL TUBE (55) TO TUBE (5).</p> <p><b>NOTE:</b> DO NOT TIGHTEN TUBE (55) AT THIS TIME.</p> <p>TUBE WILL BE TIGHTENED DURING THE HIGH STAGE VALVE INSTALLATION (REF BLEED DUCT INSTALLATION - LOWER 5TH- AND 9TH-STAGE/Figure 16-1 ).</p> <p>. TUBE ASSY</p> <p>MAKE SURE PROTECTIVE CAP IS INSTALLED ON END OF TUBE (55).</p> |    | 1   |

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 7

Jun 15/2016

D633A106-AKS



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**Lower Bleed Control System Installation**  
**Figure 15-1 (Sheet 4)**

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 8

Jun 15/2016

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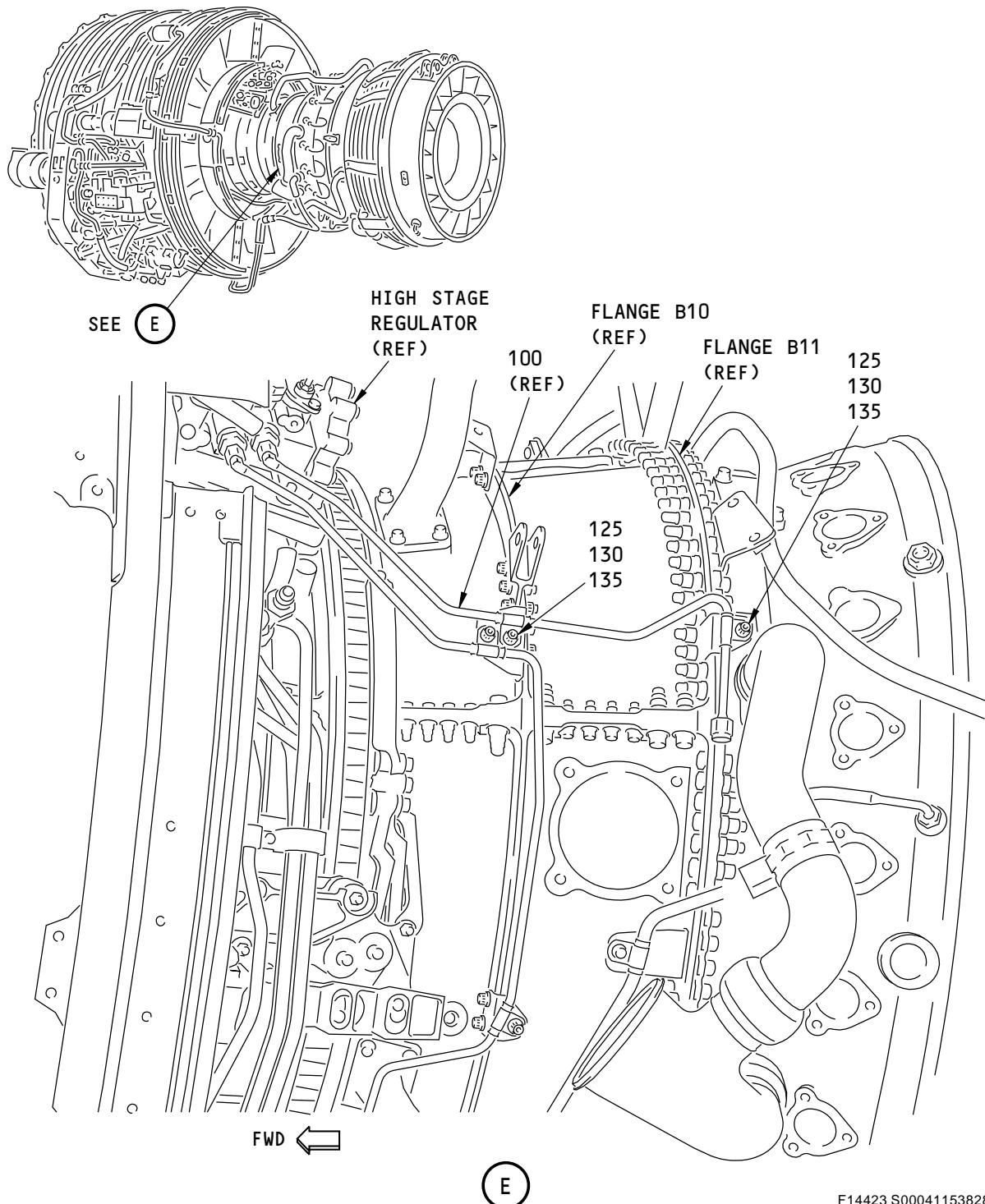
| ITEM NO.    | PART NUMBER | NOMENCLATURE  | UC | QTY |
|-------------|-------------|---|----|-----|
| 15-1<br>100 | 332A2350-4  | <b>LOWER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 15-1, SHEET 4)</b><br>LOOSELY ATTACH TUBE (100) TO UNION ON AFT PORT OF HIGH STAGE REGULATOR.<br>. TUBE ASSY |    | 1   |

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 9

Jun 15/2016

D633A106-AKS



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**Lower Bleed Control System Installation**  
**Figure 15-1 (Sheet 5)**

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 10

Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 15-1     |              | <b>LOWER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 15-1, SHEET 5)</b><br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLTS (135). LOOSELY ATTACH TUBE (100) TO ENGINE BRACKETS JUST ABOVE 9 O'CLOCK POSITION ON FLANGE B10 AND FLANGE B11 WITH CLAMPSHELLS (125), CLAMPS (130) AND BOLTS (135). |     |     |
| 125      | BACC10GT2-04 | . CLAMPSHELL  |     | 4   |
| 125      | 9352M41P16   | . CLAMPSHELL (V83930) (OPTIONAL)  | OPT | -   |
| 130      | 1794M49P01   | . CLAMP (V96941)  | VEN | 2   |
| 135      | BACB30ZF4-06 | . BOLT  |     | 2   |
| 135      | BACB30ZF4-05 | . BOLT (REPLACED BY BACB30ZF4-06)   | LTD | -   |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |

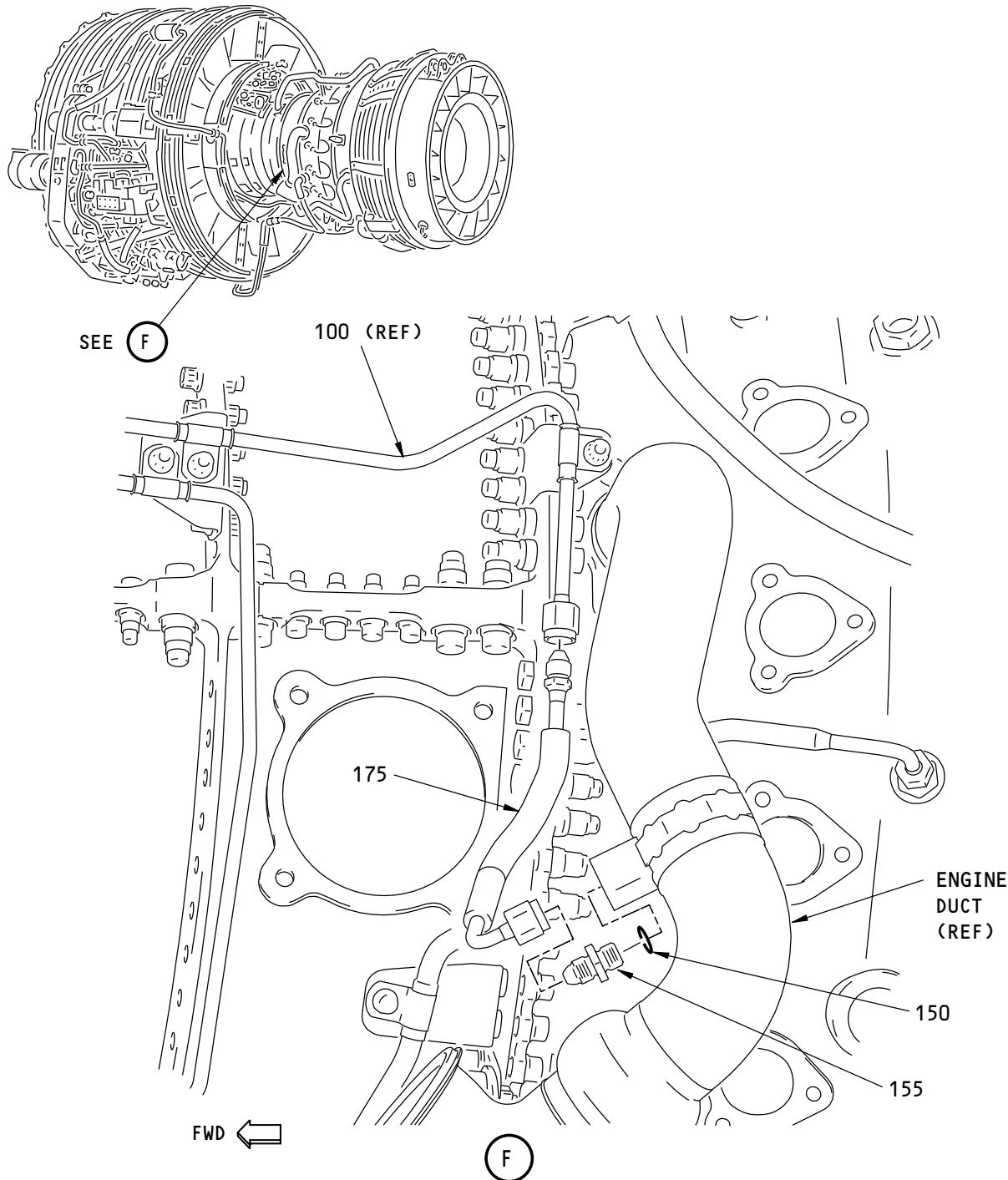
**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 11

Jun 15/2016

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**Lower Bleed Control System Installation**  
**Figure 15-1 (Sheet 6)**

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 12

Jun 15/2016

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| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 15-1     |             | <b>LOWER BLEED CONTROL SYSTEM INSTALLATION (FIGURE 15-1, SHEET 6)</b><br><br>INSTALL O-RING (150) ON UNION (155).<br><br>LUBRICATE THREADS OF UNION (155) WITH Never-Seez NSBT compound, D00006 (C1) AND INSTALL UNION (155) ON ENGINE DUCT.<br><br>150 801A50-0004-A<br>. O-RING (V15284)<br>150 801A50-0004A<br>. O-RING (V15284) (OPTIONAL TO 801A50-0004-A)<br>155 J1238P54<br>. UNION (V07482)<br>C1 D00006<br>. NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN UNION (155) TO 130-150 POUND-INCHES (14.7-16.9 NEWTON METERS)<br><br>LOOSELY INSTALL HOSE ASSY (175) BETWEEN TUBE (100) AND UNION (155).<br><br>175 16135-84<br>. HOSE ASSY (V99755) (SPEC 60B90135-84)<br><br>MAKE SURE NO PRELOAD FORCE ON TUBE, HOSE, REGULATOR OR ENGINE DUCT IS PRESENT.<br><br>IF PRELOAD IS PRESENT, ADJUST TUBE (100) AND CLAMPS (130) TO BEST POSITION.<br><br>TIGHTEN TUBE ASSY (100) AND HOSE ASSY (175) TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.<br><br>TIGHTEN BOLTS (135) TO 60-70 POUND-INCHES (6.8-7.9 NEWTON METERS). |    |     |

**71-00-02****P/P BUILDUP FIGURE 15-1**

Page 13

Jun 15/2016

D633A106-AKS

**FIGURE 16-1**

**BLEED DUCT INSTALLATION - LOWER 5TH- AND  
9TH-STAGE**

**REF QEC TASK NO.: 16**

**REF DWG: 332A2100  
332A2300**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

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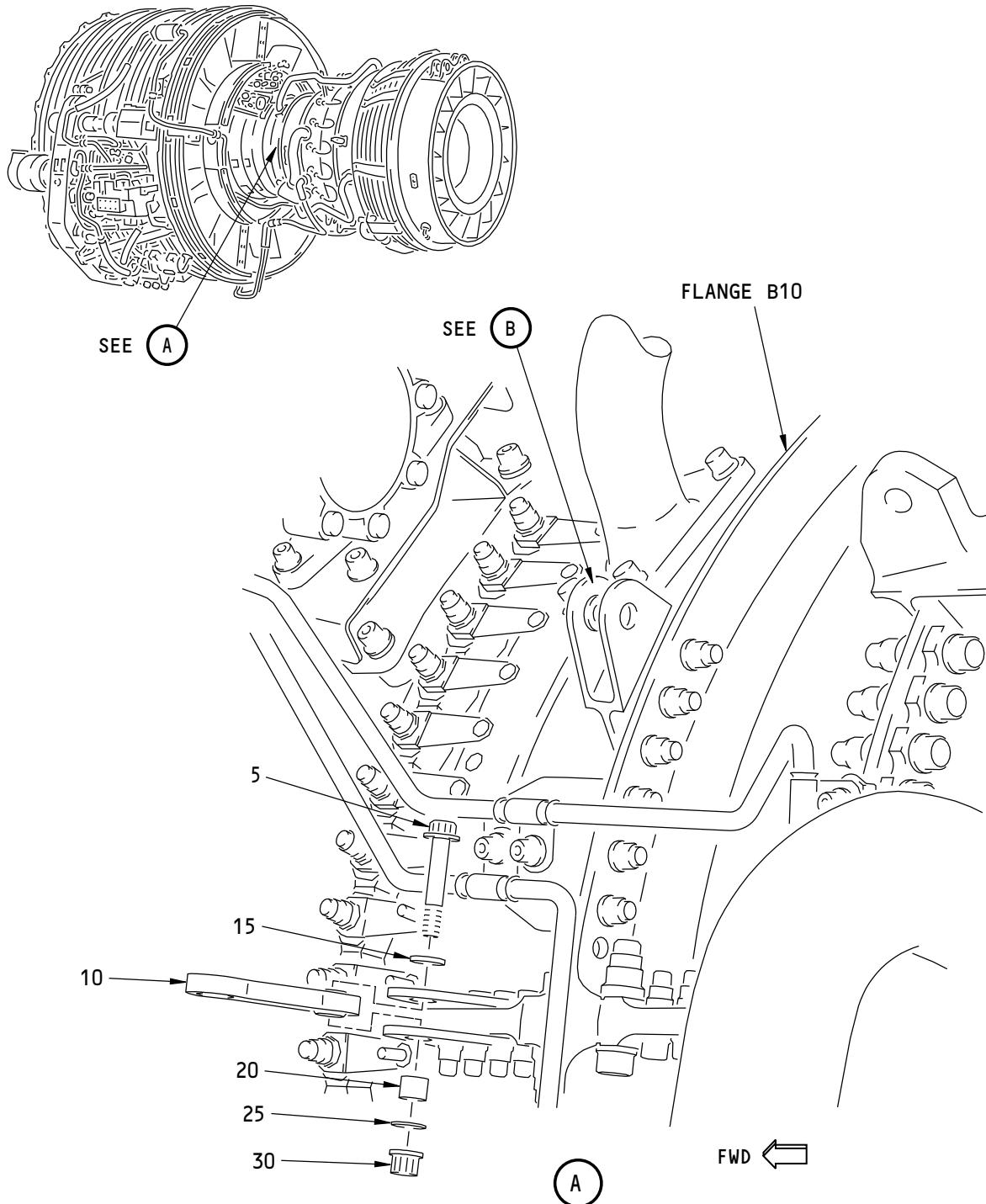
**P/P BUILDUP FIGURE 16-1**

Page 1

Jun 15/2016

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**Lower 5th- and 9th-Stage Bleed Duct Installation**  
**Figure 16-1 (Sheet 1)**

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 2

Jun 15/2016

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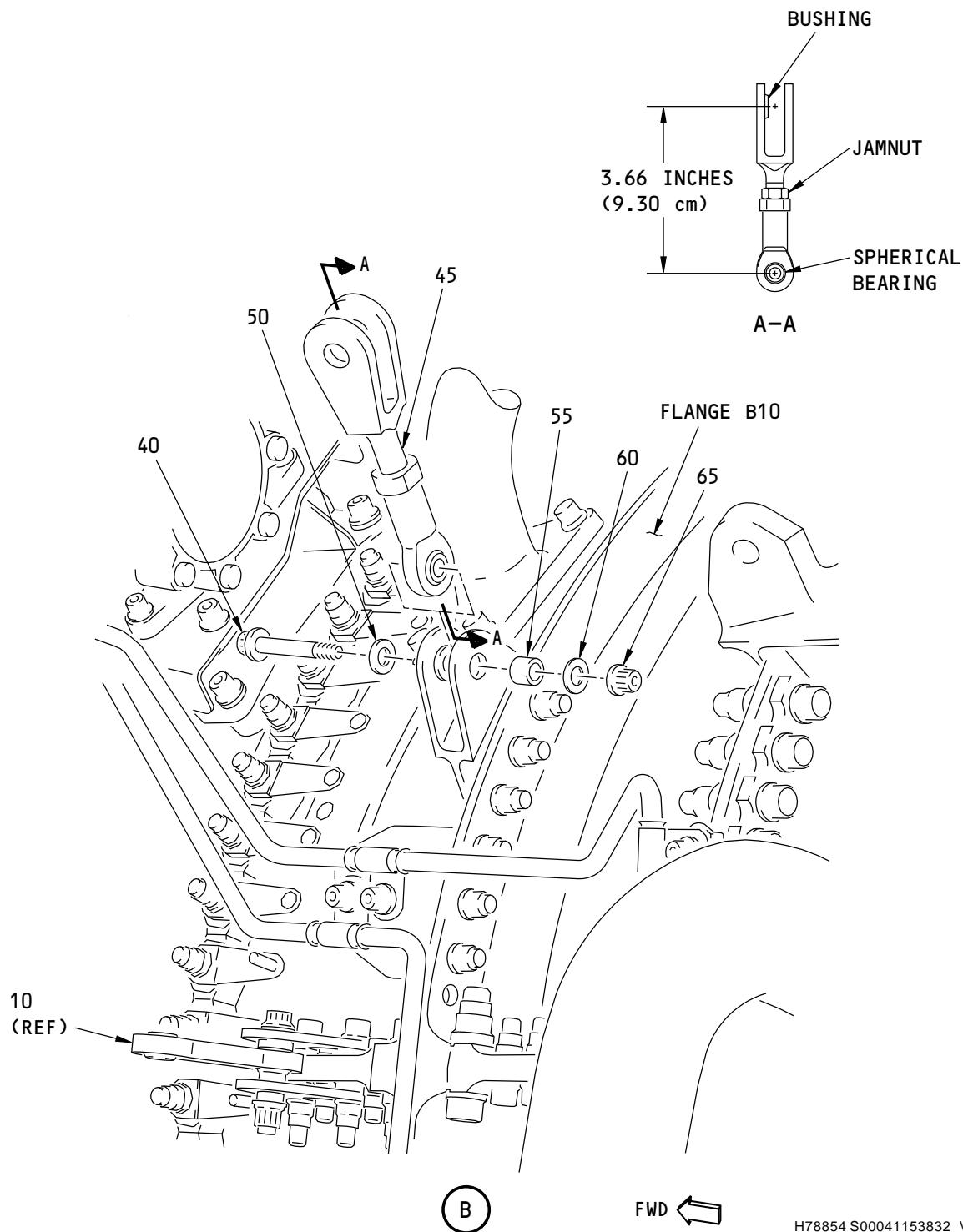
| ITEM NO. | PART NUMBER    | NOMENCLATURE  | UC  | QTY |
|----------|----------------|---|-----|-----|
| 16-1     |                | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 1)</b><br><br><u>NOTE:</u> IN THIS PROCEDURE, DO NOT TIGHTEN SCREWS AND TUBE OR HOSE NUTS TO THE INDICATED TORQUE UNTIL INSTRUCTED.<br><br>WHEN TIGHTENING TUBE AND HOSE NUTS, USE TWO WRENCHES; ONE TO HOLD THE SPANNER FLATS ON THE NIPPLE AND ONE TO TIGHTEN THE NUT.<br><br>APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS AND SHANK OF BOLT (5). |     |     |
| 5        | BACB30PN4-16   | . BOLT  | 1   |     |
| C1       | D00006         | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |
|          |                | LOOSEN CFMI BRACKETS FWD OF FLANGE B10 AT 9 O'CLOCK POSITION ON ENGINE CORE.  |     |     |
|          |                | ATTACH LINK (10) BETWEEN CFMI BRACKETS USING LUBRICATED BOLT (5), WASHERS (15) AND (25), BUSHING (20) AND NUT (30).   |     |     |
| 10       | 332A2341-4     | . LINK ASSY   | 1   |     |
| 15       | BACW10BP4ACU   | . WASHER (CSK) (UNDER BOLTHEAD)   | 1   |     |
| 20       | BACB28AK04-042 | . BUSHING   | 1   |     |
| 25       | NAS1149C0432R  | . WASHER (UNDER NUT)  | 1   |     |
| 30       | AS3485-10      | . NUT   | 1   |     |
|          |                | TIGHTEN BOLT (5) TO 50-75 POUND-INCHES (5.6-8.5 NEWTON METERS).   |     |     |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 3

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 16-1

Page 4

Jun 15/2016

D633A106-AKS

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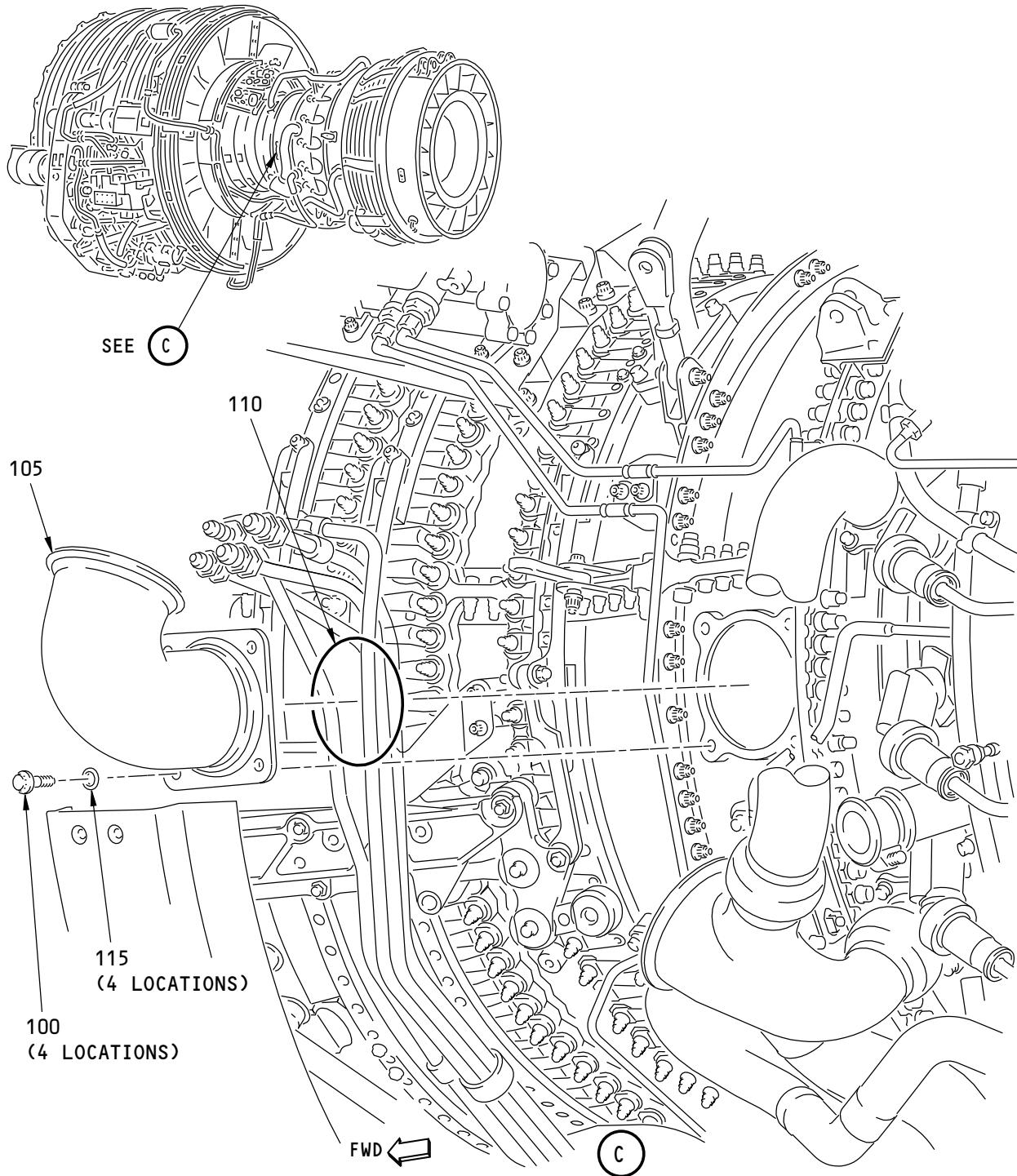
| ITEM NO. | PART NUMBER    | NOMENCLATURE  | UC  | QTY |
|----------|----------------|---|-----|-----|
| 16-1     |                | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 2)</b>  |     |     |
| 40       | BACB30PN4-14   | APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS AND SHANK OF BOLT (40).  |     | 1   |
| C1       | D00006         | <ul style="list-style-type: none"> <li>. BOLT</li> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> </ul>                       | CON | AR  |
|          |                | LOOSEN JAMNUT OF LINK ASSY (45) TO FREE ROD END.  |     |     |
|          |                | ADJUST LINK ASSY TO 3.66 INCHES (9.30 CM) FROM CENTERLINE OF BUSHING TO CENTERLINE OF SPHERICAL BEARING.              |     |     |
|          |                | RETIGHTEN JAMNUT.   |     |     |
|          |                | LOOSEN CLEVIS BRACKET ON FLANGE B10 AT 10 O'CLOCK POSITION ON ENGINE CORE.  |     |     |
|          |                | ATTACH LINK ASSY (45) TO CLEVIS BRACKET USING LUBRICATED BOLT (40), WASHERS (50) AND (60), BUSHING (55) AND NUT (65). |     |     |
| 45       | 332A2341-5     | <ul style="list-style-type: none"> <li>. LINK ASSY</li> </ul>   |     | 1   |
| 50       | BACW10BP4ACU   | <ul style="list-style-type: none"> <li>. WASHER (CSK) (UNDER BOLTHEAD)</li> </ul>                                     |     | 1   |
| 55       | BACB28AK04-030 | <ul style="list-style-type: none"> <li>. BUSHING</li> </ul>   |     | 1   |
| 60       | NAS1149C0432R  | <ul style="list-style-type: none"> <li>. WASHER (UNDER NUT)</li> </ul>  |     | 1   |
| 65       | AS3485-10      | <ul style="list-style-type: none"> <li>. NUT</li> </ul>   |     | 1   |
|          |                | TIGHTEN BOLT (40) TO 50-75 POUND-INCHES (5.6-8.5 NEWTON METERS).  |     |     |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 5

Jun 15/2016

D633A106-AKS



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**Lower 5th- and 9th-Stage Bleed Duct Installation**  
**Figure 16-1 (Sheet 3)**

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 6

Jun 15/2016

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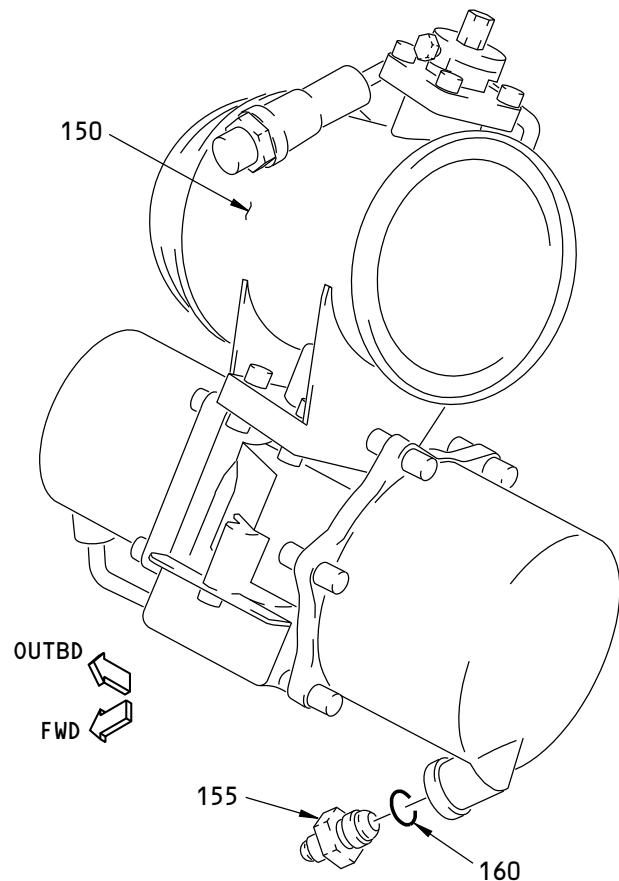
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 16-1     |              | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 3)</b>   |     |     |
| 100      | BACB30PN5H3  | APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS AND SHANK OF BOLTS (100).   |     | 4   |
| C1       | D00006       | <ul style="list-style-type: none"> <li>. BOLT</li> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> </ul>  | CON | AR  |
|          |              | REMOVE PROTECTIVE COVER FROM ENGINE PORT.  |     |     |
|          |              | POSITION DUCT ASSY (105) AND SEAL (110) ON ENGINE PORT AND ATTACH USING BOLTS (100) AND WASHERS (115) (WITH COUNTERSINK TOWARD BOLTHEADS). |     |     |
| 105      | 332A2323-14  | <ul style="list-style-type: none"> <li>. DUCT ASSY</li> </ul>  |     | 1   |
| 110      | 8757-350     | <ul style="list-style-type: none"> <li>. SEAL (V15284)</li> </ul>  | VEN | 1   |
| 115      | BACW10BP5ACU | <ul style="list-style-type: none"> <li>. WASHERS (CSK)</li> </ul>  |     | 4   |
|          |              | TIGHTEN BOLTS (100) TO 115-125 POUND-INCHES (13.0-14.2 NEWTON METERS).   |     |     |
|          |              | INSTALL MS20995NC32 lockwire, G01912 (C2) OR safety cable kit, G50375 (C3) TO FWD AND AFT PAIR OF BOLTS (100).                             |     |     |
| C2       | G01912       | <ul style="list-style-type: none"> <li>. MS20995NC32 LOCKWIRE</li> </ul>   | CON | AR  |
| C3       | G50375       | <ul style="list-style-type: none"> <li>. SAFETY CABLE KIT</li> </ul>   | CON | 2   |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 7

Jun 15/2016

D633A106-AKS



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**Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 4)**

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 16-1     |               | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION<br/>(FIGURE 16-1, SHEET 4)</b><br>LUBRICATE THREADS OF REDUCER (155) WITH Never-Seez NSBT compound, D00006 (C1).<br>INSTALL O-RING (160) ON REDUCER (155) AND INSTALL ON HIGH STAGE VALVE (150). |     |     |
| 150      | 3214446-4     | . HIGH STAGE VALVE (V59364) (SPEC 10-62008-32)   | VEN | 1   |
| 155      | J522P52       | . REDUCER (V96941)   | VEN | 1   |
| 160      | 801A50-0005-A | . O-RING (V15284)  | VEN | 1   |
| 160      | 801A50-0005A  | . O-RING (V15284) (OPTIONAL TO 801A50-0005-A)  | OPT | -   |
| C1       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN REDUCER (155) TO 180-200 POUND-INCHES (20.3-22.6 NEWTON METERS).  | CON | AR  |

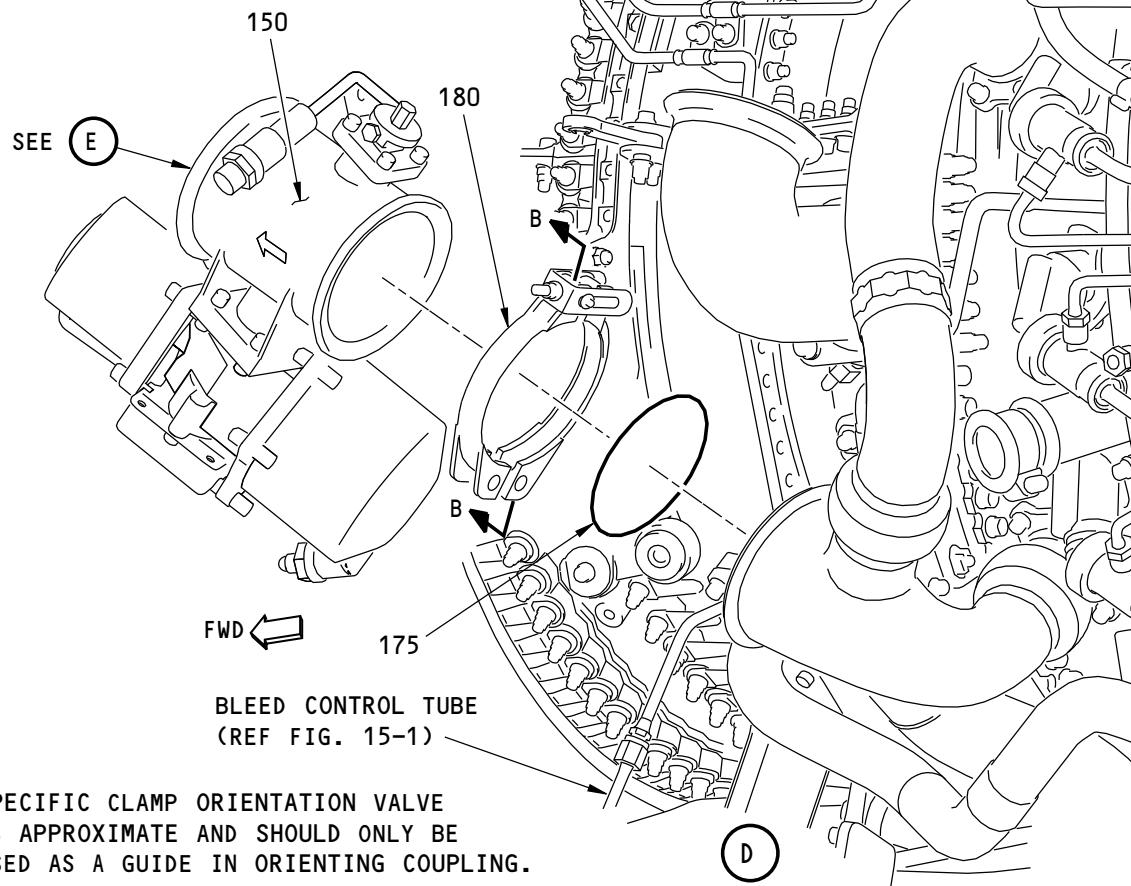
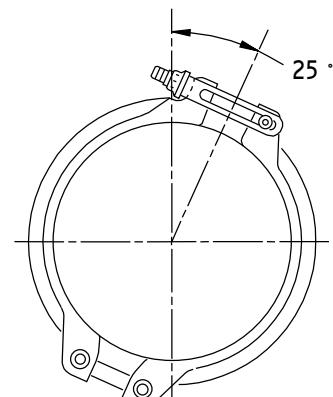
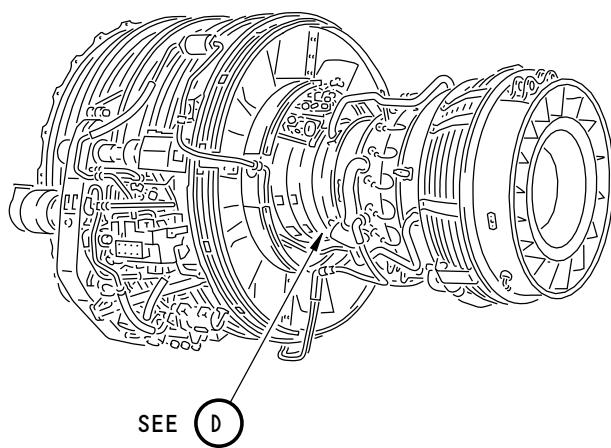
**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 9

Jun 15/2016

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Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 16-1

Page 10

Jun 15/2016

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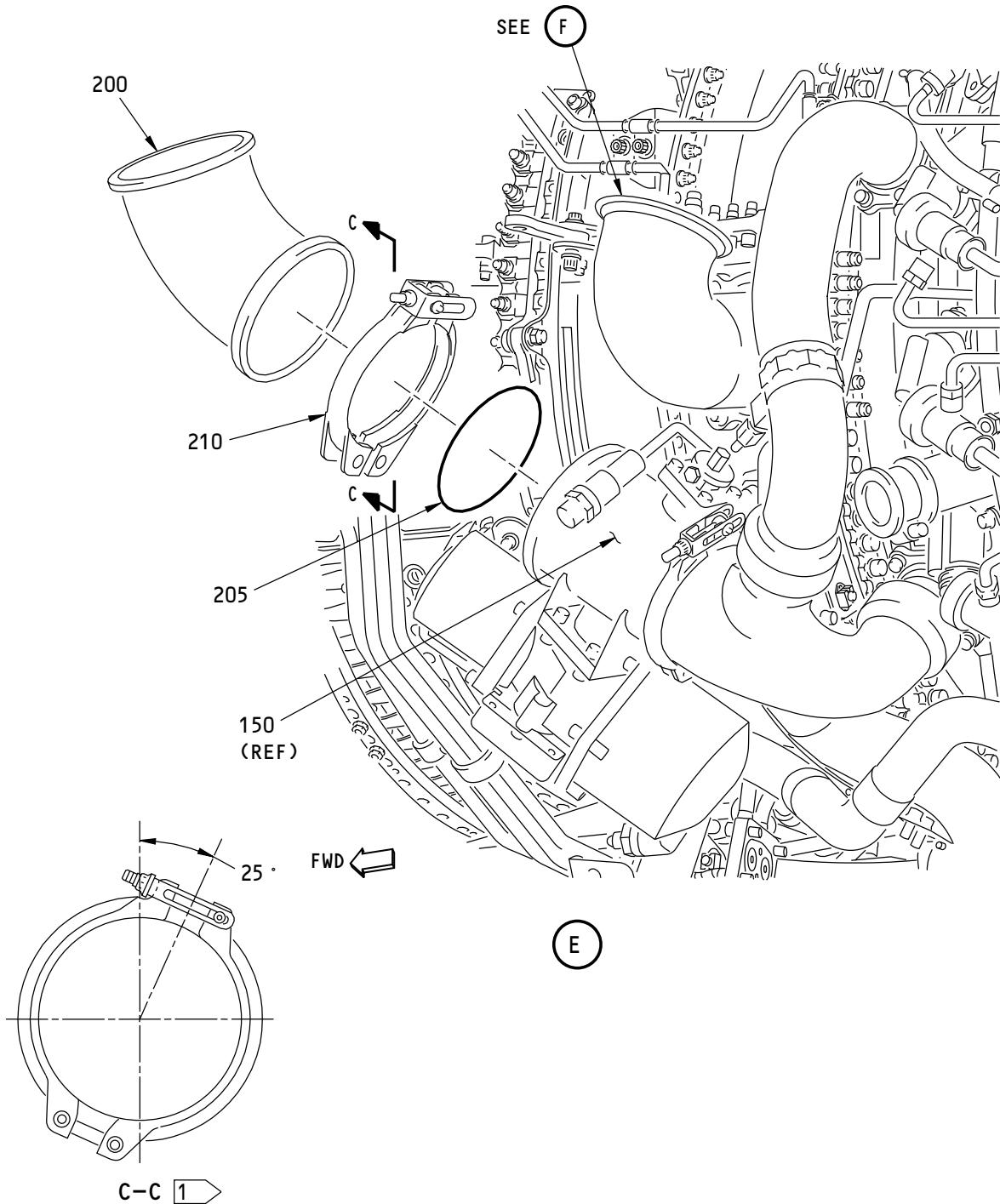
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 16-1     |              | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 5)</b> <p><b>NOTE:</b> ALL DUCT COUPLINGS HAVE A DRY-FILM LUBRICANT AND SHOULD NOT BE LUBRICATED FURTHER.</p> <p>VISUALLY EXAMINE ALL SEAL AND FLANGE SEALING SURFACES BEFORE INSTALLATION TO ENSURE NO SCRATCHES, CUTS, PITS, OR FOREIGN MATERIAL IS PRESENT.</p> <p>LOOSELY ATTACH HIGH STAGE VALVE (150) TO CFMI DUCT AT 8 O'CLOCK LOCATION ON ENGINE CORE.</p> <p>USE SEAL (175) AND COUPLING (180).</p> |     |     |
| 175      | AS1895-7-350 | . SEAL   | 1   |     |
| 175      | AS1895/7-350 | . SEAL (OPTIONAL TO AS1895-7-350)  | OPT | -   |
| 180      | AS1895-1-350 | . COUPLING   | 1   |     |
| 180      | AS1895/1-350 | . COUPLING (OPTIONAL TO AS1895-1-350)  | OPT | -   |
|          |              | LOOSELY INSTALL BLEED CONTROL TUBE (REF BLEED CONTROL SYSTEM INSTALLATION - LOWER/Figure 15-1) TO UNION AND ORIENT HIGH STAGE VALVE TO BEST POSITION.  |     |     |
|          |              | <b>NOTE:</b> FINAL ORIENTATION OF HIGH STAGE VALVE IS DETERMINED BY BLEED CONTROL TUBE.  |     |     |
|          |              | ORIENT COUPLING (180) WITH COUPLING BOLT ON TOP AND COUPLING NUT FACING OUTBOARD.  |     |     |
|          |              | COUPLING LINK MUST BE CENTERED ALONG THE TAB LOCATED AT THE BOTTOM OF THE 9TH STAGE BLEED DUCT.  |     |     |
|          |              | TIGHTEN COUPLING (180) TO TORQUE SPECIFIED ON PART.  |     |     |
|          |              | LIGHTLY TAP OUTER SURFACE OF COUPLING WITH NON-METALLIC MALLET.  |     |     |
|          |              | RETIGHTEN COUPLING TO TORQUE GIVEN ON PART.  |     |     |
|          |              | TIGHTEN BLEED CONTROL TUBE TO AT BOTH ENDS TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.  |     |     |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 11

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 16-1

Page 12

Jun 15/2016

D633A106-AKS

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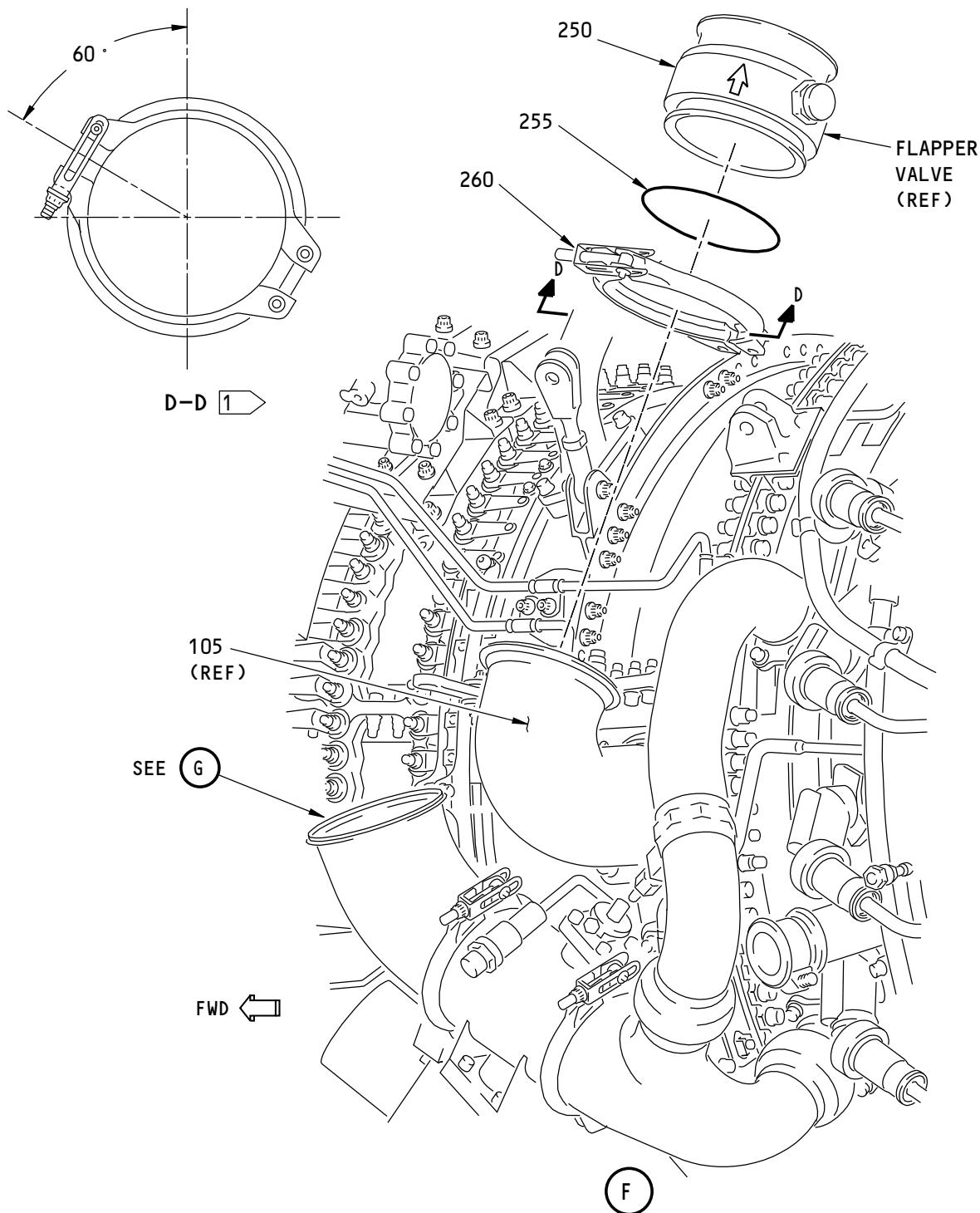
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 16-1     |              | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION<br/>(FIGURE 16-1, SHEET 6)</b>           |     |     |
| 200      | 332A2321-10  | LOOSELY ATTACH DUCT ASSY (200) TO HIGH STAGE VALVE (150) WITH SEAL (205) AND COUPLING (210). |     | 1   |
| 205      | AS1895-7-350 | . DUCT ASSY  |     | 1   |
| 205      | AS1895/7-350 | . SEAL   |     | 1   |
| 210      | AS1895-1-350 | . SEAL (OPTIONAL TO AS1895-7-350)  | OPT | -   |
| 210      | AS1895-1-350 | . COUPLING <sup>[2]</sup>  |     | 1   |
| 210      | AS1895/1-350 | . COUPLING (OPTIONAL TO AS1895-1-350) <sup>[2]</sup>   | OPT | -   |
|          |              | ORIENT COUPLING (210) WITH COUPLING BOLT ON TOP AND COUPLING NUT FACING OUTBOARD.            |     |     |
|          |              | *[2] ORIENT COUPLING TO MAXIMIZE CLEARANCE.  |     |     |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 13

Jun 15/2016

D633A106-AKS

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Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 16-1

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 16-1     |              | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 7)</b><br><br>LOOSELY ATTACH CHECK VALVE (250) TO DUCT (105) AT 9 O'CLOCK LOCATION ON ENGINE CORE.<br>USE SEAL (255) AND COUPLING (260).<br><br>ORIENT CHECK VALVE SO FLOW ARROW POINTS UP AND FLAPPER VALVE SHAFT IS APPROXIMATELY PARALLEL TO 5TH-STAGE PORT +/-0.25 INCH (6.35 MM) TO MAXIMIZE CLEARANCE WITH THRUST REVERSER.<br><br><b>NOTE:</b> DO NOT TIGHTEN COUPLING AT THIS TIME. |     |     |
| 250      | 3202222-1    | . CHECK VALVE (V59364) (SPEC 10-62008-1)  | VEN | 1   |
| 255      | AS1895-7-350 | . SEAL  |     | 1   |
| 255      | AS1895/7-350 | . SEAL (OPTIONAL TO AS1895-7-350)   | OPT | -   |
| 260      | AS1895-4-350 | . COUPLING  |     | 1   |
| 260      | AS1895/4-350 | . COUPLING (OPTIONAL TO AS1895-4-350)   | OPT | -   |

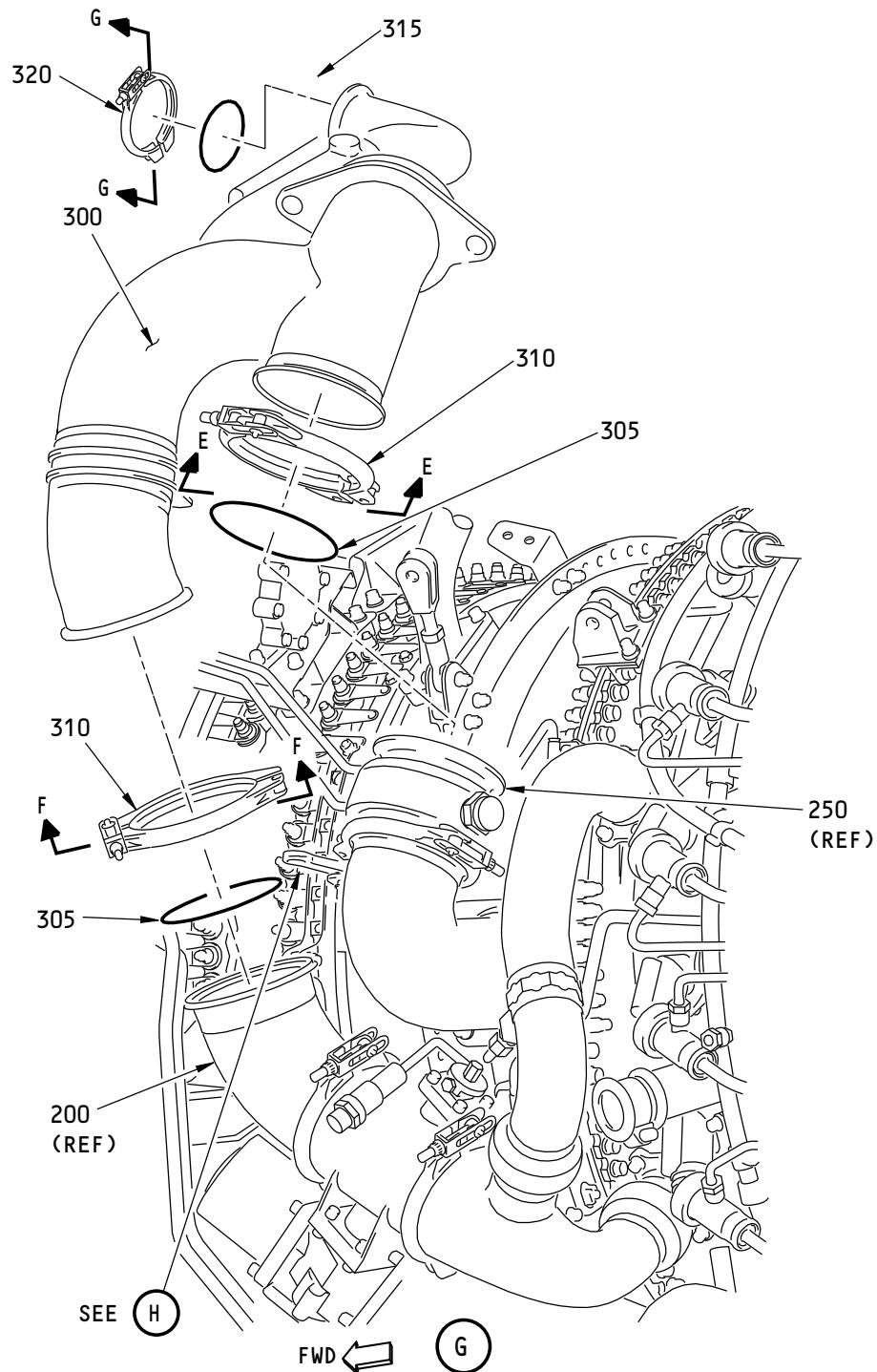
**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 15

Jun 15/2016

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Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 8)

71-00-02

P/P BUILDUP FIGURE 16-1

Page 16

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
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| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 16-1     |              | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 8)</b><br>POSITION DUCT ASSY (300) AND SEALS (305) ON DUCT ASSY (200) AND CHECK VALVE (250).<br>LOOSELY CONNECT DUCT ASSY (300) WITH COUPLINGS (310).<br><b>NOTE:</b> DO NOT TIGHTEN COUPLINGS AT THIS TIME. <ul style="list-style-type: none"> <li>. DUCT ASSY, INTERSECTION MANIFOLD</li> <li>. SEAL</li> <li>. SEAL (OPTIONAL TO AS1895-7-350)</li> <li>. COUPLING<sup>[2]</sup></li> <li>. COUPLING (OPTIONAL TO AS1895-4-350)<sup>[2]</sup></li> </ul> LOOSELY CONNECT CTAI FLANGE OF DUCT (300) TO CTAI BIFUR DUCT AT 12 O'CLOCK POSITION (REF 12 O'CLOCK STRUT INSTALLATION/Figure 13-1) WITH SEAL (315) AND COUPLING (320).<br><b>NOTE:</b> DO NOT TIGHTEN COUPLING AT THIS TIME. <ul style="list-style-type: none"> <li>. SEAL</li> <li>. SEAL (OPTIONAL TO AS1895-7-175)</li> <li>. COUPLING<sup>[2]</sup></li> <li>. COUPLING (OPTIONAL TO AS1895-4-175)<sup>[2]</sup></li> </ul> MAKE SURE PROTECTIVE CAP IS INSTALLED ON TOP OF DUCT (300).<br>* <sup>[2]</sup> ORIENT COUPLING TO MAXIMIZE CLEARANCE. |     |     |
| 300      | 332A2322-54  |   |     | 1   |
| 305      | AS1895-7-350 |   |     | 2   |
| 305      | AS1895/7-350 |   | OPT | -   |
| 310      | AS1895-4-350 |   |     | 2   |
| 310      | AS1895/4-350 |   | OPT | -   |
| 315      | AS1895-7-175 |   |     | 1   |
| 315      | AS1895/7-175 |   | OPT | -   |
| 320      | AS1895-4-175 |   |     | 1   |
| 320      | AS1895/4-175 |   | OPT | -   |

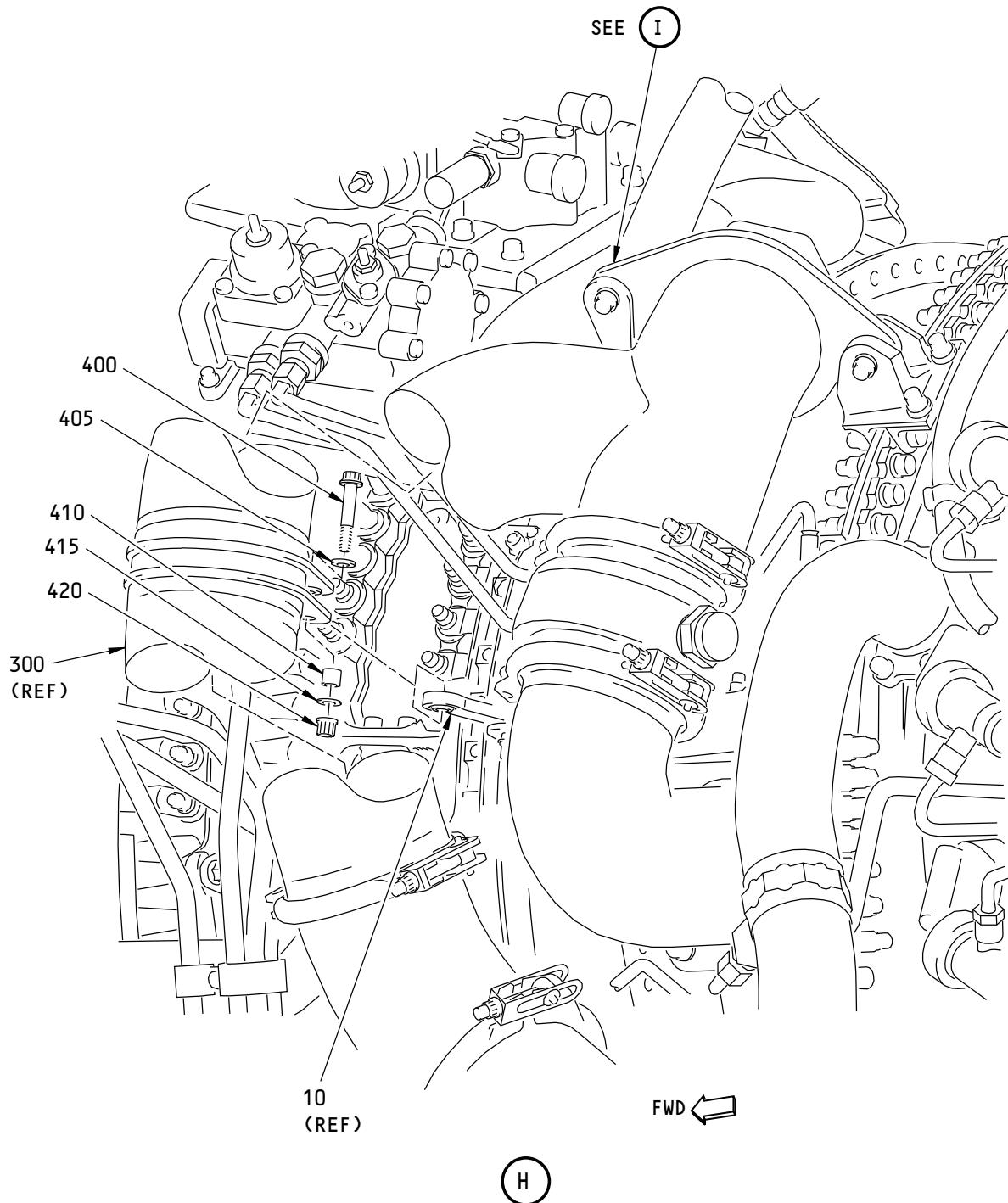
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P/P BUILDUP FIGURE 16-1

Page 17

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

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Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 16-1

Page 18

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

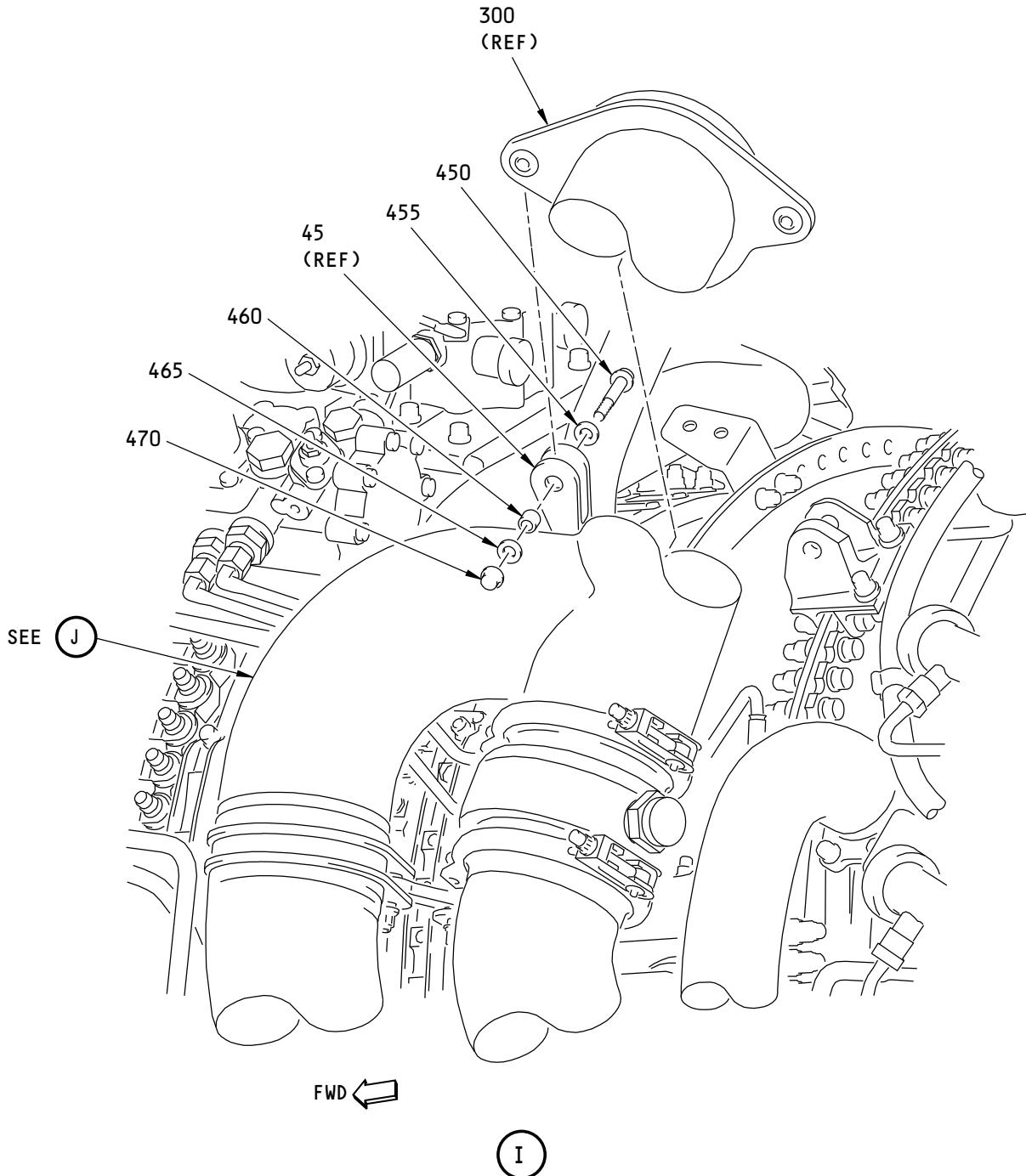
| ITEM NO. | PART NUMBER    | NOMENCLATURE  | UC  | QTY |
|----------|----------------|---|-----|-----|
| 16-1     |                | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 9)</b>  |     |     |
| 400      | BACB30PN4-14   | APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS AND SHANK OF BOLT (400).   |     | 1   |
| C1       | D00006         | <ul style="list-style-type: none"> <li>. BOLT</li> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> </ul>                               | CON | AR  |
|          |                | LOOSELY ATTACH DUCT (300) TO LINK ASSY (10) WITH LUBRICATED BOLT (400), WASHERS (405) AND (415), BUSHING (410) AND NUT (420). |     |     |
|          |                | <b>NOTE:</b> DO NOT TIGHTEN BOLT AT THIS TIME.  |     |     |
| 405      | BACW10BP4ACU   | <ul style="list-style-type: none"> <li>. WASHER (CSK) (UNDER BOLTHEAD)</li> </ul>   |     | 1   |
| 410      | BACB28AK04-030 | <ul style="list-style-type: none"> <li>. BUSHING</li> </ul>   |     | 1   |
| 415      | NAS1149C0432R  | <ul style="list-style-type: none"> <li>. WASHER (UNDER NUT)</li> </ul>  |     | 1   |
| 420      | AS3485-10      | <ul style="list-style-type: none"> <li>. NUT</li> </ul>   |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 19

Jun 15/2016

D633A106-AKS



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**Lower 5th- and 9th-Stage Bleed Duct Installation**  
**Figure 16-1 (Sheet 10)**

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 20

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

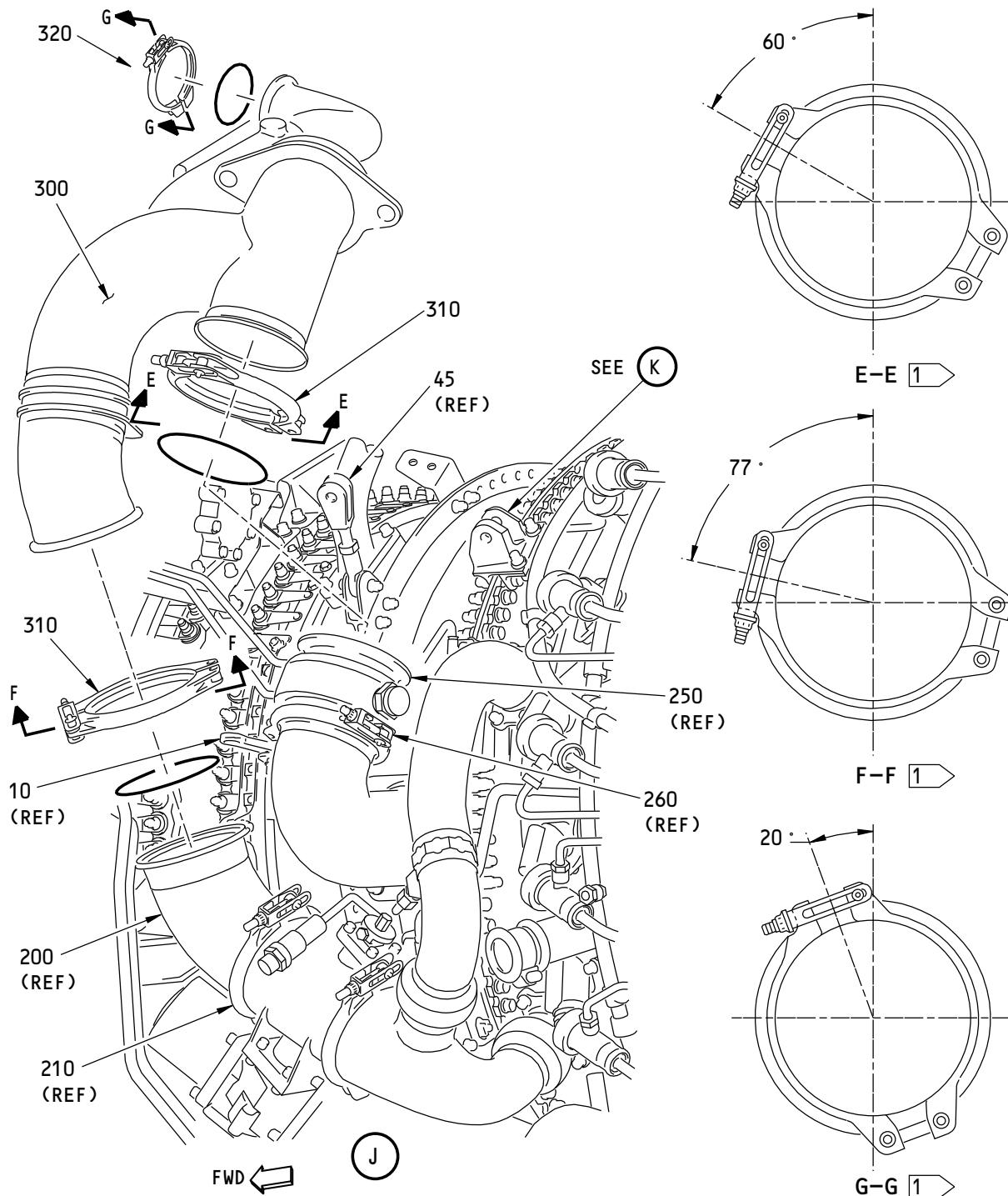
| ITEM NO. | PART NUMBER    | NOMENCLATURE   | UC  | QTY |
|----------|----------------|--|-----|-----|
| 16-1     |                | LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION<br>(FIGURE 16-1, SHEET 10)  |     |     |
| 450      | BACB30PN4-14   | APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS AND SHANK OF BOLT (450).  |     | 1   |
| C1       | D00006         | <ul style="list-style-type: none"> <li>. BOLT</li> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> </ul>  | CON | AR  |
| 455      | BACW10BP4ACU   | LOOSELY ATTACH LINK (45) TO ATTACH FLANGE OF DUCT ASSY (300) WITH LUBRICATED BOLT (450), WASHERS (455) AND (465), BUSHING (460) AND NUT (470). |     | 1   |
| 460      | BACB28AK04-030 | <ul style="list-style-type: none"> <li>. WASHER (CSK) (UNDER BOLTHEAD)</li> <li>. BUSHING</li> </ul>   |     | 1   |
| 465      | NAS1149C0432R  | <ul style="list-style-type: none"> <li>. WASHER (UNDER NUT)</li> </ul>   |     | 1   |
| 470      | AS3485-10      | <ul style="list-style-type: none"> <li>. NUT</li> </ul>  |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 21

Jun 15/2016

D633A106-AKS



Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 16-1

Page 22

Jun 15/2016

D633A106-AKS

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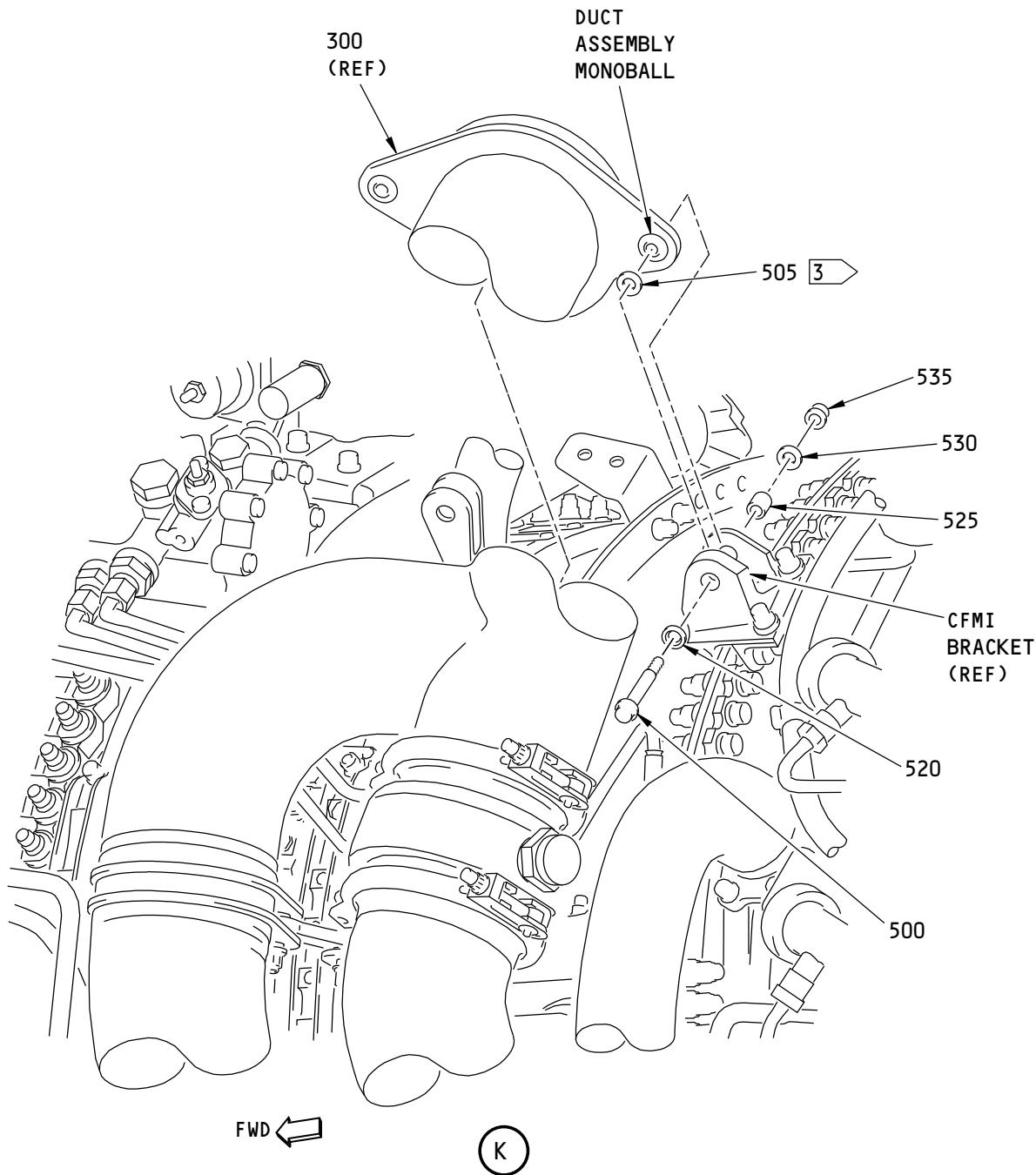
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 16-1     |             | <p><b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 11)</b></p> <p>ORIENT COUPLINGS (310) AND (320) AS SHOWN.</p> <p>ADJUST DUCT ASSYS (200) AND (300) TO MAKE SURE NO PRELOAD EXISTS ON DUCTS, CHECK VALVE (250) AND LINKS (10) AND (45).</p> <p>TIGHTEN COUPLINGS (210), (260), (310) AND (320) TO TORQUE GIVEN ON PART.</p> <p>LIGHTLY TAP OUTER SURFACE WITH NON-METALLIC MALLET.</p> <p>RETIGHTEN COUPLINGS TO TORQUE GIVEN ON PART.</p> <p>TIGHTEN CFMI BRACKETS SUPPORTING LINK (10) AND CLEVIS BRACKET SUPPORTING LINK (45) TO ENGINE FLANGES.</p> <p>TIGHTEN BOLTS TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).</p> <p>TIGHTEN BOLTS (400) AND (450) TO 50-75 POUND-INCHES (5.6-8.5 NEWTON METERS).</p> <p><b>NOTE:</b> MAKE SURE LINKS DO NOT APPLY A PRELOAD TO ADJACENT DUCT OR SUPPORT HARDWARE.</p> <p>IF NECESSARY, ADJUST LINK (10) BY REPOSITIONING CFMI BRACKETS.</p> <p>LOOSEN CFMI FASTENERS, REPOSITION BRACKETS AND RETIGHTEN FASTENERS TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).</p> <p>IF NECESSARY, ADJUST LINK (45) BY LOOSENING JAMNUT ON LINK TO FREE ROD END.</p> <p>ADJUST AS NECESSARY AND RETIGHTEN JAMNUT.</p> <p>APPLY MS20995NC32 lockwire, G01912 (C2) OR safety cable kit, G50375 (C3) BETWEEN JAMNUT AND FEMALE SIDE OF LINK (45).</p> |     |     |
| C2       | G01912      | . MS20995NC32 LOCKWIRE   | CON | AR  |
| C3       | G50375      | . SAFETY CABLE KIT   | CON | 1   |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 23

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

- 3 → INSTALL UP TO 4 WASHERS AS NECESSARY BETWEEN LOWER SIDE OF DUCT ASSEMBLY MONOBALL AND CFMI BRACKET.

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Lower 5th- and 9th-Stage Bleed Duct Installation  
Figure 16-1 (Sheet 12)

71-00-02

P/P BUILDUP FIGURE 16-1

Page 24

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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| ITEM NO. | PART NUMBER    | NOMENCLATURE  | UC  | QTY |
|----------|----------------|---|-----|-----|
| 16-1     |                | <b>LOWER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 16-1, SHEET 12)</b>   |     |     |
|          |                | APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS AND SHANK OF BOLT (500).   |     |     |
| 500      | BACB30PN6C22   | . BOLT <sup>*[4]</sup>  |     | 1   |
| 500      | BACB30PN6C24   | . BOLT (OPTIONAL TO BACB30PN6C22) <sup>*[4]</sup>   | OPT | -   |
| C1       | D00006         | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |
|          |                | INSTALL UP TO 4 WASHERS (505) TO ELIMINATE GAP BETWEEN LOWER SIDE OF DUCT ASSY MONOBALL AND CFMI BRACKET.   |     |     |
|          |                | IF GAP BETWEEN CFMI BRACKET AND DUCT ASSY MONOBALL IS MORE THAN 0.12 INCHES (3.0 MM), REPOSITION CFMI BRACKET TO REDUCE GAP.                            |     |     |
|          |                | RETIGHTEN BRACKET FASTENERS TO 210-230 POUND-INCHES (23.7-26.0 NEWTON METERS).  |     |     |
| 505      | NAS1149E0616R  | . WASHER  |     | 4   |
|          |                | SECURE WASHERS (505) TO DUCT FLANGE AND BRACKET CLEVIS WITH BOLT (500), WASHERS (520) AND (530), BUSHING (525), AND NUT (535).                          |     |     |
|          |                | MAKE SURE DUCT INSTALLATION DOES NOT APPLY A PRELOAD OF MORE THAN 50 POUNDS (222.4 NEWTONS) ON ADJACENT STRUCTURE.                                      |     |     |
| 520      | BACW10BN6UC    | . WASHER (CSK) (UNDER BOLTHEAD)   |     | 1   |
| 525      | BACB28AK06-040 | . BUSHING <sup>*[4]</sup>   |     | 1   |
| 525      | BACB28AK06-055 | . BUSHING <sup>*[4]</sup>   | OPT | -   |
| 530      | NAS1149E0632R  | . WASHER (UNDER NUT)  |     | 1   |
| 535      | AS3485-12      | . NUT   |     | 1   |
|          |                | TIGHTEN BOLT (500) TO 150-250 POUND-INCHES (17.0-28.2 NEWTON METERS).   |     |     |
|          |                | *[4] BACB30PN6C24 BOLT (500) TOGETHER WITH BACB28AK06-055 BUSHING (525) OPTIONAL TO BACB30PN6C22 BOLT (500) TOGETHER WITH BACB28AK06-040 BUSHING (525). |     |     |

**71-00-02****P/P BUILDUP FIGURE 16-1**

Page 25

Jun 15/2016

D633A106-AKS

**FIGURE 17-1**

**BLEED CONTROL SYSTEM INSTALLATION -  
UPPER**

**REF QEC TASK NO.: 17**

**REF DWG: 332A2100**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

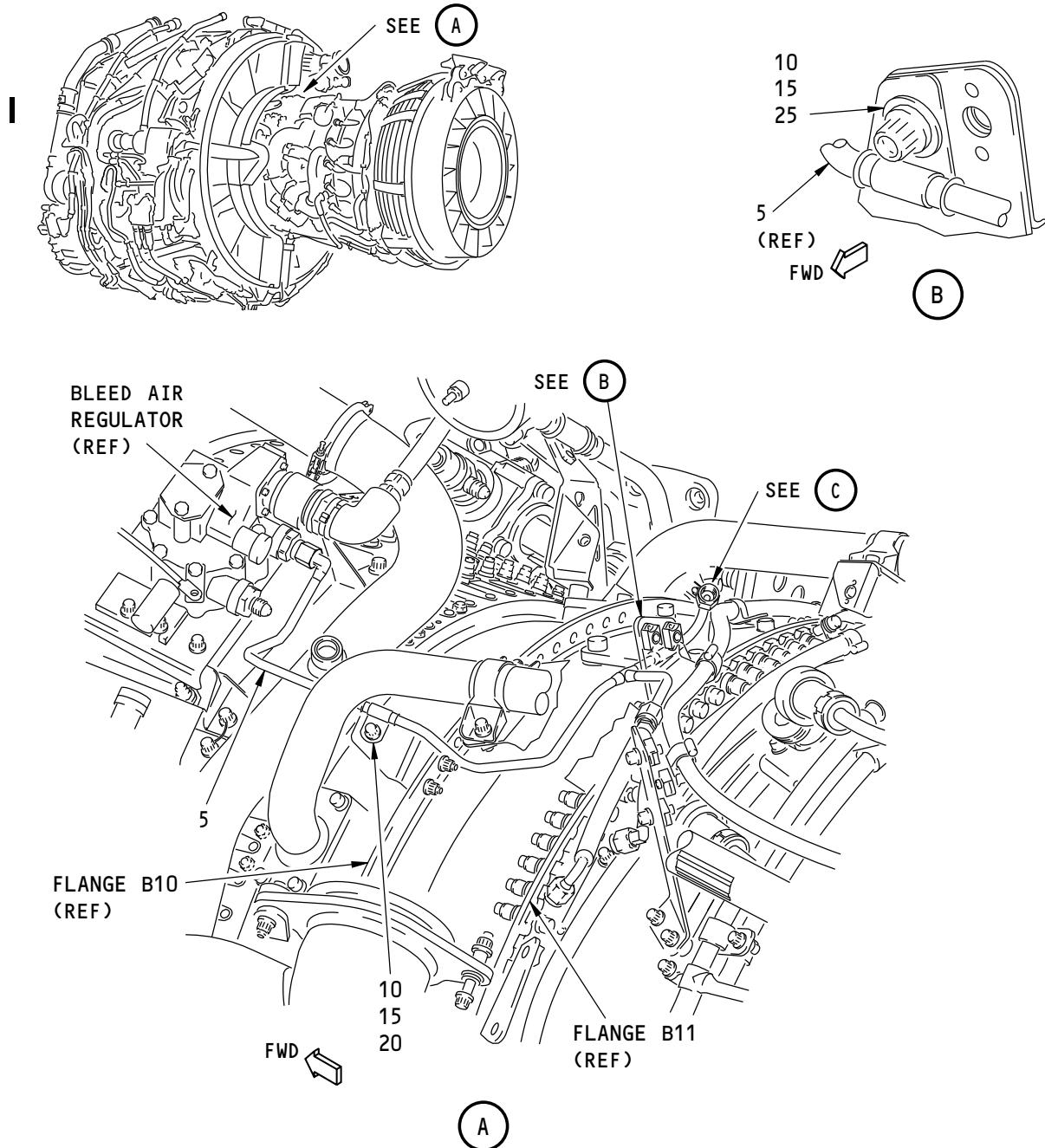
**P/P BUILDUP FIGURE 17-1**

Page 1

Jun 15/2016

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Upper Bleed Control System Installation  
Figure 17-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 17-1

Page 2

Jun 15/2016

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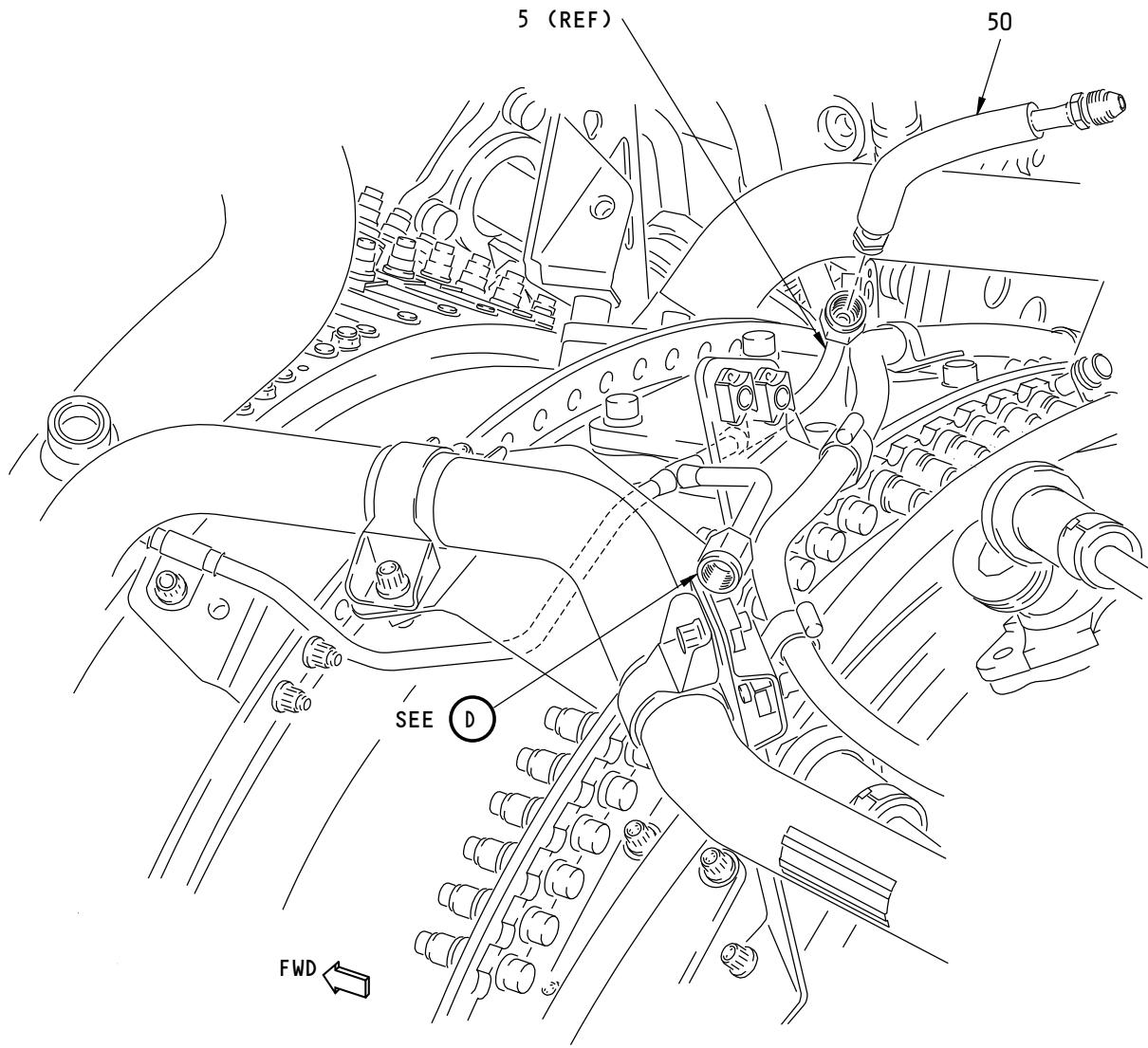
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 17-1     |              | <b>UPPER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 17-1, SHEET 1)</b> <p><b>NOTE:</b> IN THIS PROCEDURE, DO NOT TIGHTEN SCREWS AND TUBE OR HOSE NUTS TO THE INDICATED TORQUE UNTIL INSTRUCTED.</p> <p>WHEN TIGHTENING TUBE AND HOSE NUTS, USE TWO WRENCHES; ONE TO HOLD THE SPANNER FLATS ON THE NIPPLE AND ONE TO TIGHTEN THE NUT.</p> <p>ALL TUBE NUTS HAVE A DRY-FILM LUBRICANT AND DO NOT NEED ADDITIONAL LUBRICATION.</p> <p>TO REDUCE CLAMP DISTORTION UPON INSTALLATION, APPLY Never-Seez NSBT compound, D00006 (C1) TO BOLT HEAD SURFACE THAT COMES INTO CONTACT WITH THE CLAMP. APPLY TO BOLT HEAD ONLY. DO NOT APPLY TO BOLT THREADS.</p> |     |     |
| C1       | D00006       | <ul style="list-style-type: none"> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> <li>POSITION TUBE ASSY (5) ON ENGINE CORE, ALIGNING FORWARD END WITH UPPER UNION ON BLEED AIR REGULATOR.</li> <li>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLTS (20). LOOSELY ATTACH TUBE ASSY (5) TO ENGINE CORE BRACKETS ON FLANGES B10 AND B11. USE CLAMPS (10), CLAMPSHELLS (15) AND BOLTS (20, 25).</li> </ul>   | CON | AR  |
| 5        | 332A2350-5   | . TUBE ASSY   |     | 1   |
| 10       | 1794M49P01   | . CLAMP (V96941)  | VEN | 2   |
| 15       | BACC10GT2-04 | . CLAMPSHELL  |     | 4   |
| 15       | 9352M41P16   | . CLAMPSHELL (V83930) (OPTIONAL)  | OPT | -   |
| 20       | BACB30ZF4-06 | . BOLT  |     | 1   |
| 25       | BACB30ZF4-07 | . BOLT  |     | 1   |
| C1       | D00006       | <ul style="list-style-type: none"> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> <li>ADJUST TUBE ASSY (5) TO BEST POSITION, ENSURING NO PRELOAD EXISTS ON TUBE. TIGHTEN TUBE NUT AT BLEED AIR REGULATOR TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS). BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.</li> <li>TIGHTEN BOLTS (20, 25) TO 60-70 POUND-INCHES (6.8-7.9 NEWTON METERS).</li> </ul>  | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 3

Jun 15/2016

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Upper Bleed Control System Installation  
Figure 17-1 (Sheet 2)**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 4

Jun 15/2016

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| ITEM NO.   | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|------------|-------------|---|-----|-----|
| 17-1<br>50 | 16135-80    | <p><b>UPPER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 17-1, SHEET 2)</b></p> <p>INSTALL HOSE ASSY (50) ON END OF TUBE ASSY (5).<br/> . HOSE ASSY (V99755) (SPEC 60B90135-80)</p> <p>TIGHTEN TUBE NUT ON HOSE ASSY (50) TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS). BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> <p>MAKE SURE PROTECTIVE CAP IS INSTALLED ON END OF HOSE ASSY (50).</p> | VEN | 1   |

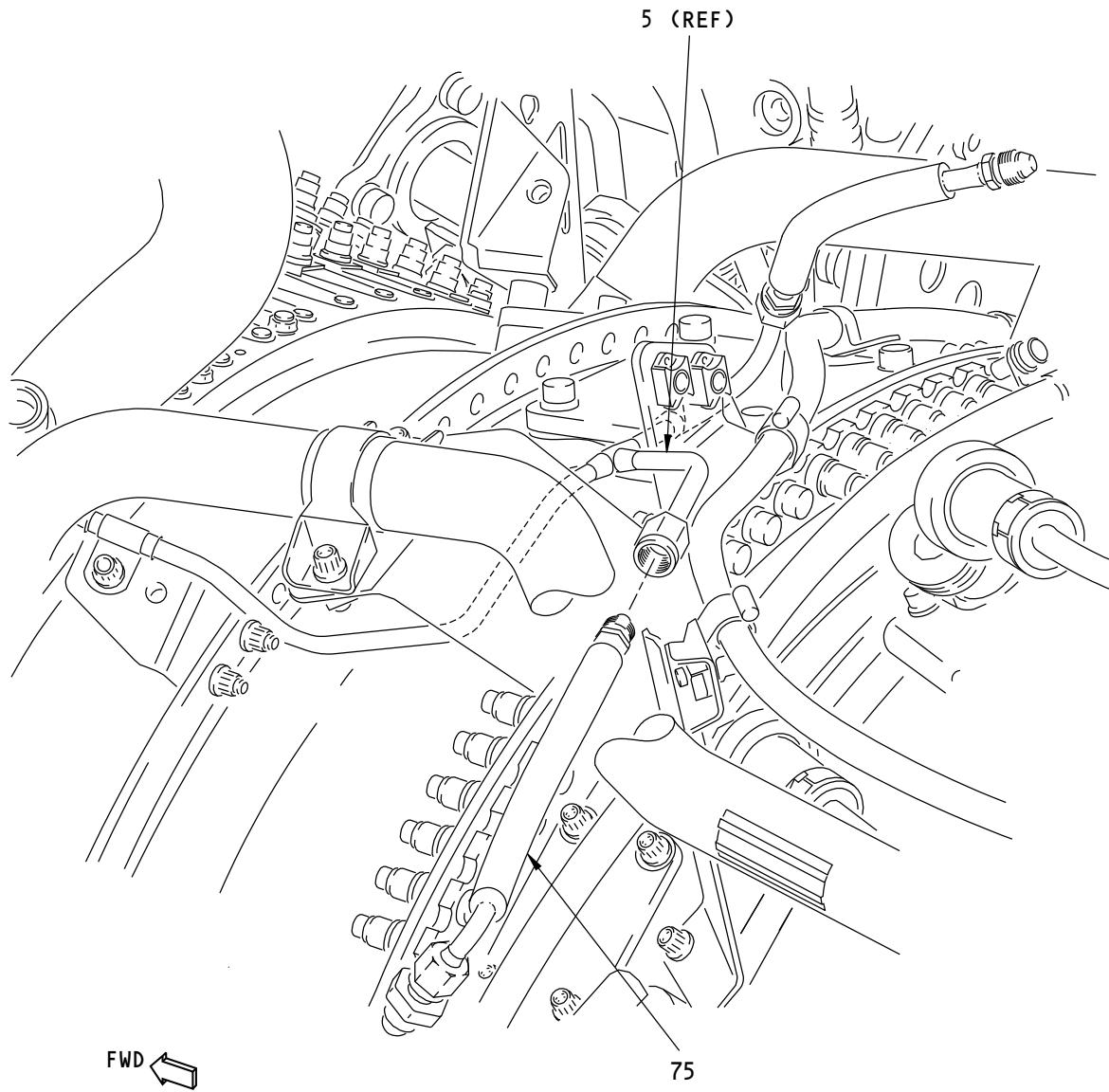
**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 5

Jun 15/2016

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POWERPLANT BUILDUP MANUAL

F14550 S00041153847\_V1

Upper Bleed Control System Installation  
Figure 17-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 17-1

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 17-1     |             | <b>UPPER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 17-1, SHEET 3)</b><br>LOOSELY INSTALL HOSE ASSY (75) TO TUBE ASSY (5).<br><b>NOTE:</b> DO NOT TIGHTEN HOSE ASSY (75) AT THIS TIME. HOSE WILL BE TIGHTENED DURING THE PRSOV INSTALLATION (REF BLEED DUCT INSTALLATION - UPPER 5TH- AND 9TH-STAGE/Figure 18-1 ).<br>. HOSE ASSY (V99755) (SPEC 60B90135-96)<br>. HOSE ASSY (V99755) (SPEC 60B90135-83) (OPTIONAL TO 16135-96)<br>MAKE SURE PROTECTIVE CAP IS INSTALLED ON END OF HOSE ASSY (75). |     |     |
| 75       | 16135-96    |   | VEN | 1   |
| 75       | 16135-83    |   | OPT | -   |

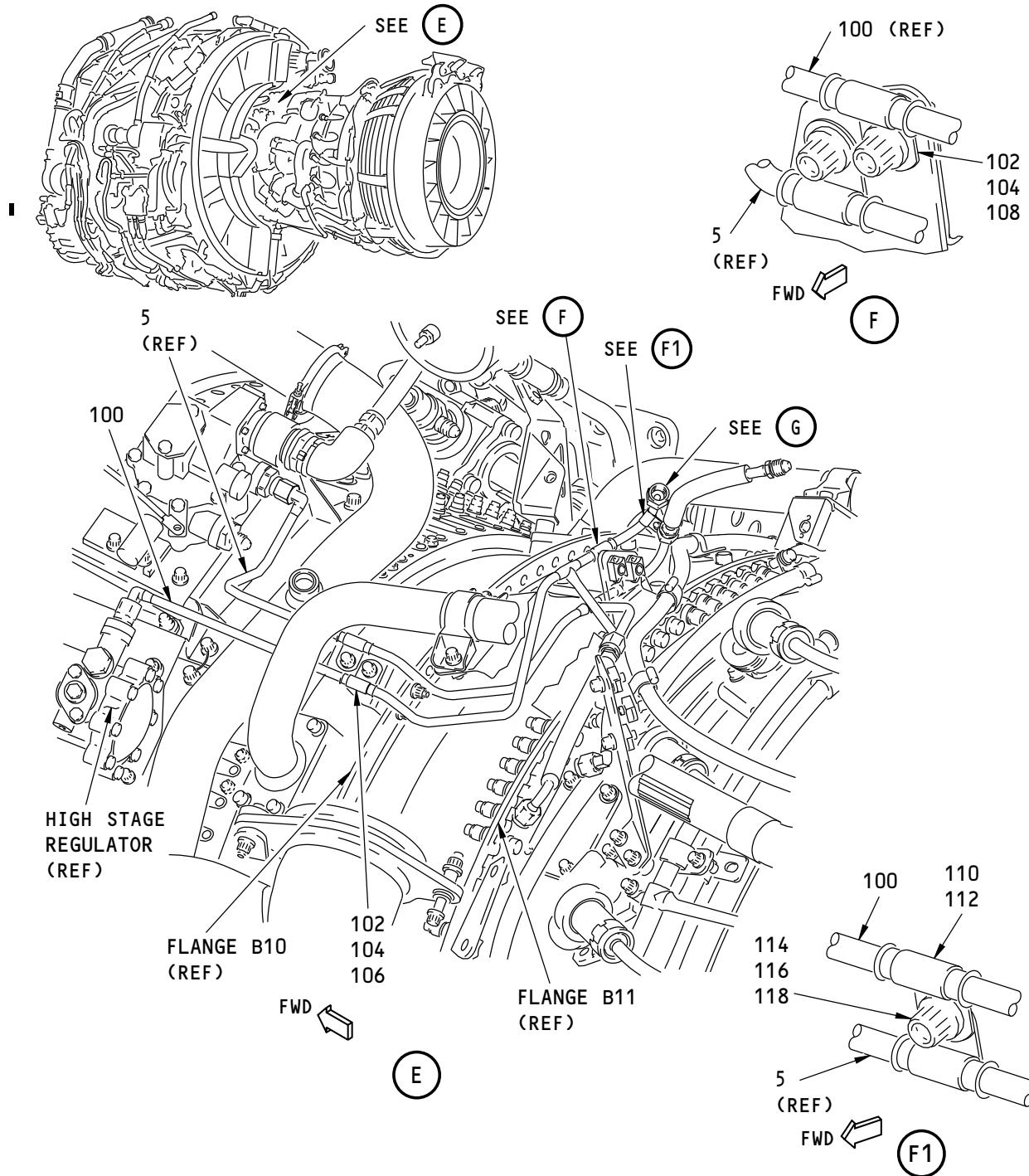
**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 7

Jun 15/2016

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Upper Bleed Control System Installation  
Figure 17-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 17-1

Page 8

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

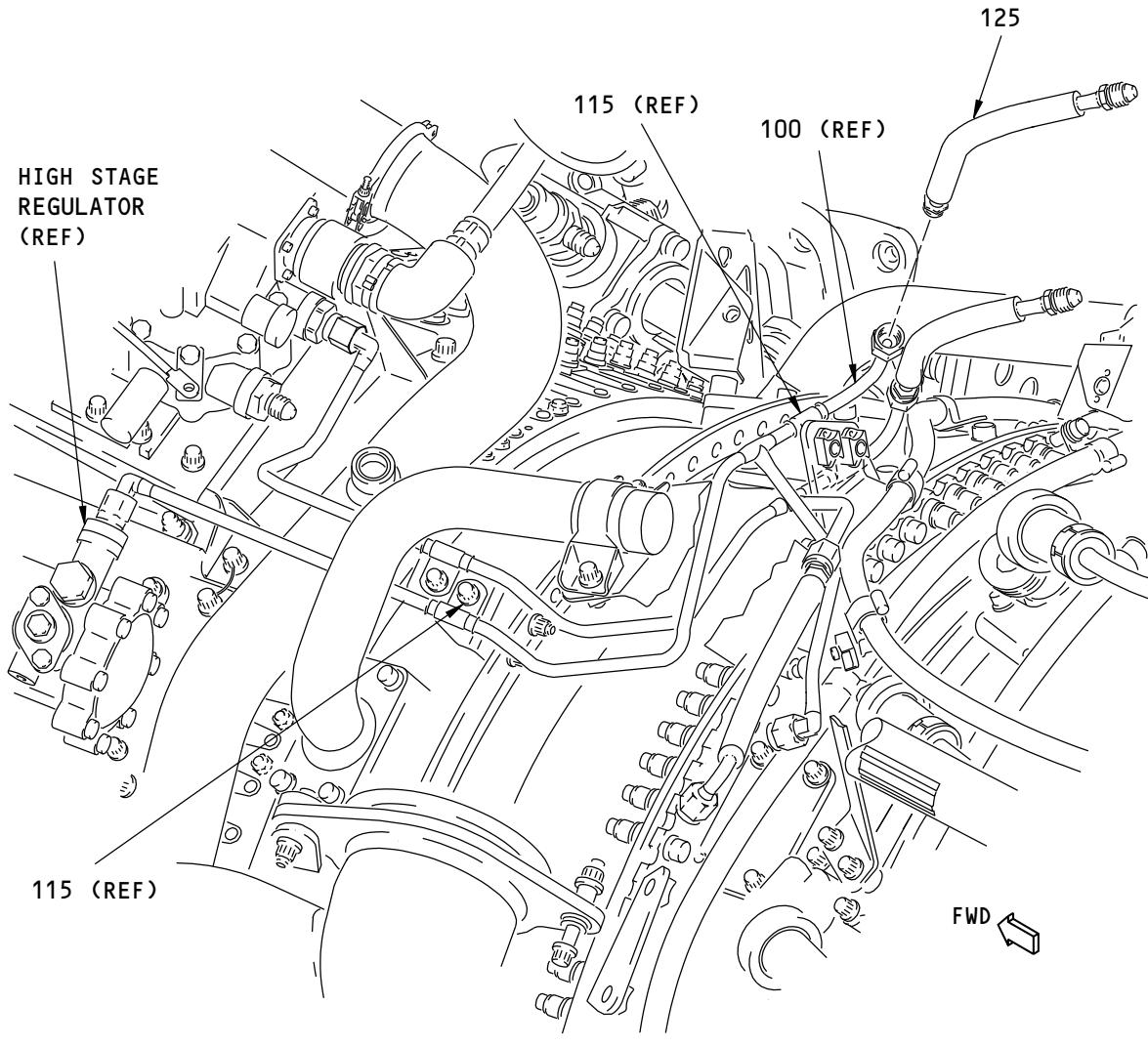
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 17-1     |               | <b>UPPER BLEED CONTROL SYSTEM INSTALLATION (FIGURE 17-1, SHEET 4)</b><br><br>POSITION TUBE ASSY (100) ON ENGINE CORE, ALIGNING FORWARD END WITH TOP UNION ON HIGH STAGE REGULATOR. APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLTS (106). LOOSELY ATTACH TUBE ASSY (100) TO ENGINE CORE BRACKETS ON FLANGES B10 AND B11. USE CLAMPS (102), CLAMPSHELLS (104) AND BOLTS (106, 108).   |     |     |
| 100      | 332A2350-7    | . TUBE ASSY  |     | 1   |
| 102      | 1794M49P01    | . CLAMP (V96941)   | VEN | 2   |
| 104      | BACC10GT2-04  | . CLAMPSHELL   |     | 4   |
| 104      | 9352M41P16    | . CLAMPSHELL (V83930) (OPTIONAL)   | OPT | -   |
| 106      | BACB30ZF4-06  | . BOLT   |     | 1   |
| 108      | BACB30ZF4-07  | . BOLT   |     | 1   |
| C1       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>ADJUST TUBE ASSY (100) TO BEST POSITION, ENSURING NO PRELOAD EXISTS ON TUBE. TIGHTEN TUBE NUT AT HIGH STAGE REGULATOR TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS). BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.<br><br>TIGHTEN BOLTS (106, 108) TO 60-70 POUND-INCHES (6.8-7.9 NEWTON METERS).<br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLT (114). ON AFT END OF TUBE ASSEMBLIES (5) AND (100), LOOSELY ATTACH CLAMP (110), CLAMPSHELLS (112), BOLT (114), WASHER (116) AND NUT, SELF-LOCK (118) TO TUBE ASSEMBLIES (5) AND (100). | CON | AR  |
| 110      | 1794M49P01    | . CLAMP (V96941)   | VEN | 2   |
| 112      | BACC10GT2-04  | . CLAMPSHELL   |     | 4   |
| 112      | 9352M41P16    | . CLAMPSHELL (V83930) (OPTIONAL)   | OPT | -   |
| 114      | BACB30ZF4-07  | . BOLT   |     | 1   |
| 116      | NAS1149C0432R | . WASHER   |     | 1   |
| 118      | AS3485-10     | . NUT, SELF-LOCK   |     | 1   |
| C1       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN BOLT (114) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 9

Jun 15/2016

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**Upper Bleed Control System Installation  
Figure 17-1 (Sheet 5)**

**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO.    | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|-------------|-------------|--|-----|-----|
| 17-1<br>125 | 16135-81    | <p><b>UPPER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 17-1, SHEET 5)</b></p> <p>INSTALL HOSE ASSY (125) ON END OF TUBE ASSY (100).<br/> . HOSE ASSY (V99755) (SPEC 60B90135-81)</p> <p>TIGHTEN TUBE NUT ON HOSE ASSY TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS). BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> <p>MAKE SURE PROTECTIVE CAP IS INSTALLED ON END OF HOSE ASSY (125).</p> | VEN | 1   |

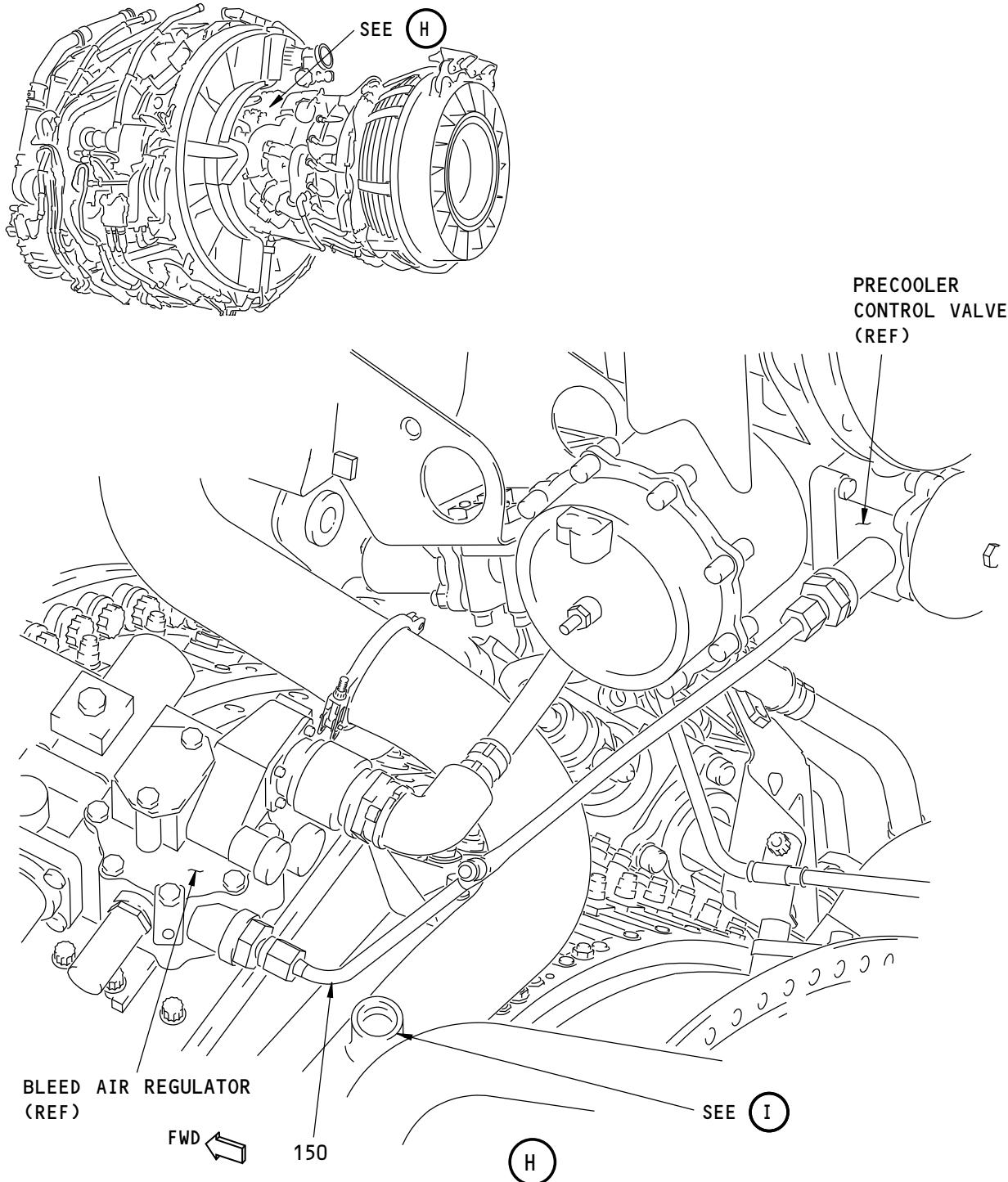
**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 11

Jun 15/2016

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Upper Bleed Control System Installation  
Figure 17-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 17-1

Page 12

Jun 15/2016

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**POWERPLANT BUILDUP MANUAL**

| ITEM NO.    | PART NUMBER | NOMENCLATURE   | UC | QTY |
|-------------|-------------|--|----|-----|
| 17-1<br>150 | 332A2350-14 | <p><b>UPPER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 17-1, SHEET 6)</b></p> <p>LOOSELY INSTALL TUBE ASSY (150) BETWEEN UNIONS ON BLEED AIR REGULATOR AND PRECOOLER CONTROL VALVE.</p> <p><b>NOTE:</b> DO NOT TIGHTEN TUBE ASSY (150) AT THIS TIME.</p> <p>. TUBE ASSY</p> |    | 1   |

**71-00-02**

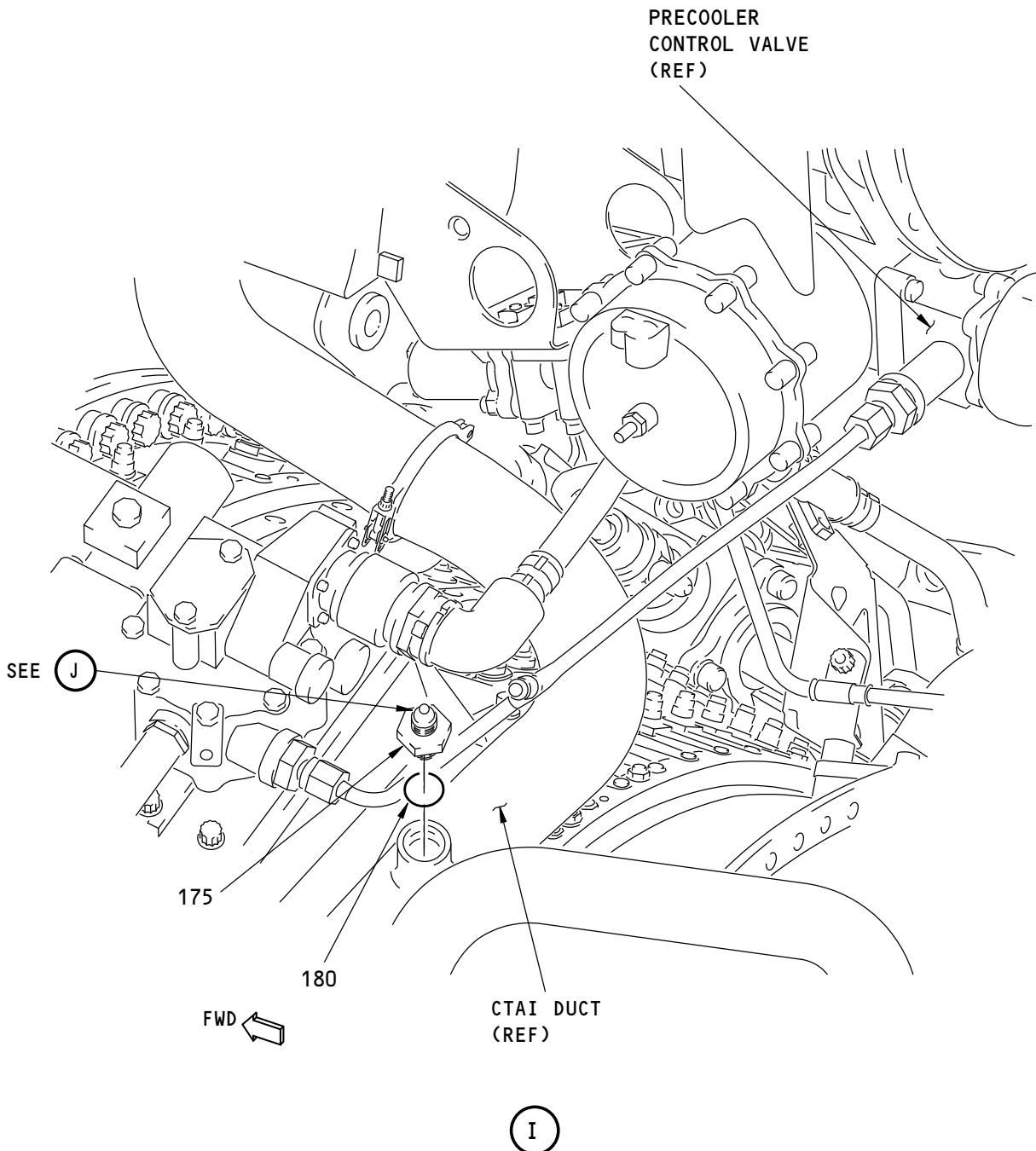
**P/P BUILDUP FIGURE 17-1**

Page 13

Jun 15/2016

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Upper Bleed Control System Installation  
Figure 17-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 17-1

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 17-1     |               | <b>UPPER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 17-1, SHEET 7)</b><br><br>INSTALL O-RING (180) ON REDUCER (175). LUBRICATE THREADS ON O-RING SIDE OF REDUCER (175) WITH Never-Seez NSBT compound, D00006 (C1) AND INSTALL ON CTAI DUCT. |     |     |
| 175      | J522P53       | . REDUCER (V90806)   | VEN | 1   |
| 180      | 801A50-0006-A | . O-RING (V15284)  | VEN | 1   |
| 180      | 801A50-0006A  | . O-RING (V15284) (OPTIONAL TO 801A50-0006-A)  | OPT | -   |
| C1       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN REDUCER (175) TO 258-284 POUND-INCHES (29-32 NEWTON METERS).  | CON | AR  |

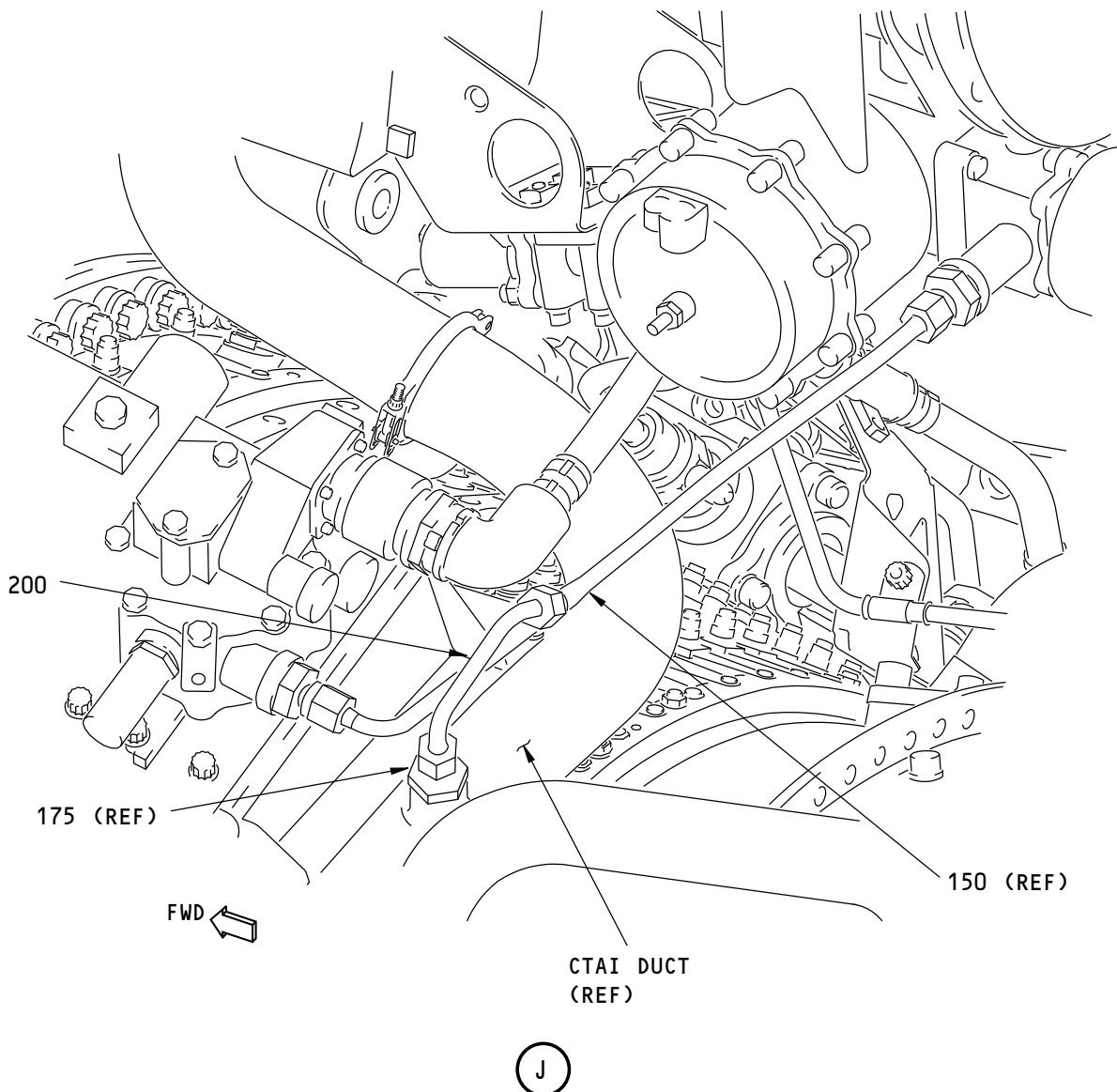
**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 15

Jun 15/2016

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Upper Bleed Control System Installation  
Figure 17-1 (Sheet 8)

**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 16

Jun 15/2016

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| ITEM NO.    | PART NUMBER | NOMENCLATURE   | UC | QTY |
|-------------|-------------|--|----|-----|
| 17-1<br>200 | 332A2350-12 | <p><b>UPPER BLEED CONTROL SYSTEM INSTALLATION (FIGURE 17-1, SHEET 8)</b></p> <p>INSTALL TUBE ASSY (200) BETWEEN TUBE ASSY (150) AND UNION (175) ON CTAI DUCT.</p> <p><b>NOTE:</b> LONGER LEG OF TUBE ASSY (200) WITH 80 DEGREE BEND MATES TO TUBE ASSY (150).</p> <p>. TUBE ASSY</p> <p>ADJUST TUBE ASSY (150) AND (200) TO BEST POSITION, ENSURING NO PRELOAD EXISTS ON TUBES, BLEED AIR REGULATOR, PRECOOLER CONTROL VALVE AND CTAI DUCT.</p> <p>TIGHTEN TUBE ASSY (150) AND (200) TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS). BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> |    | 1   |

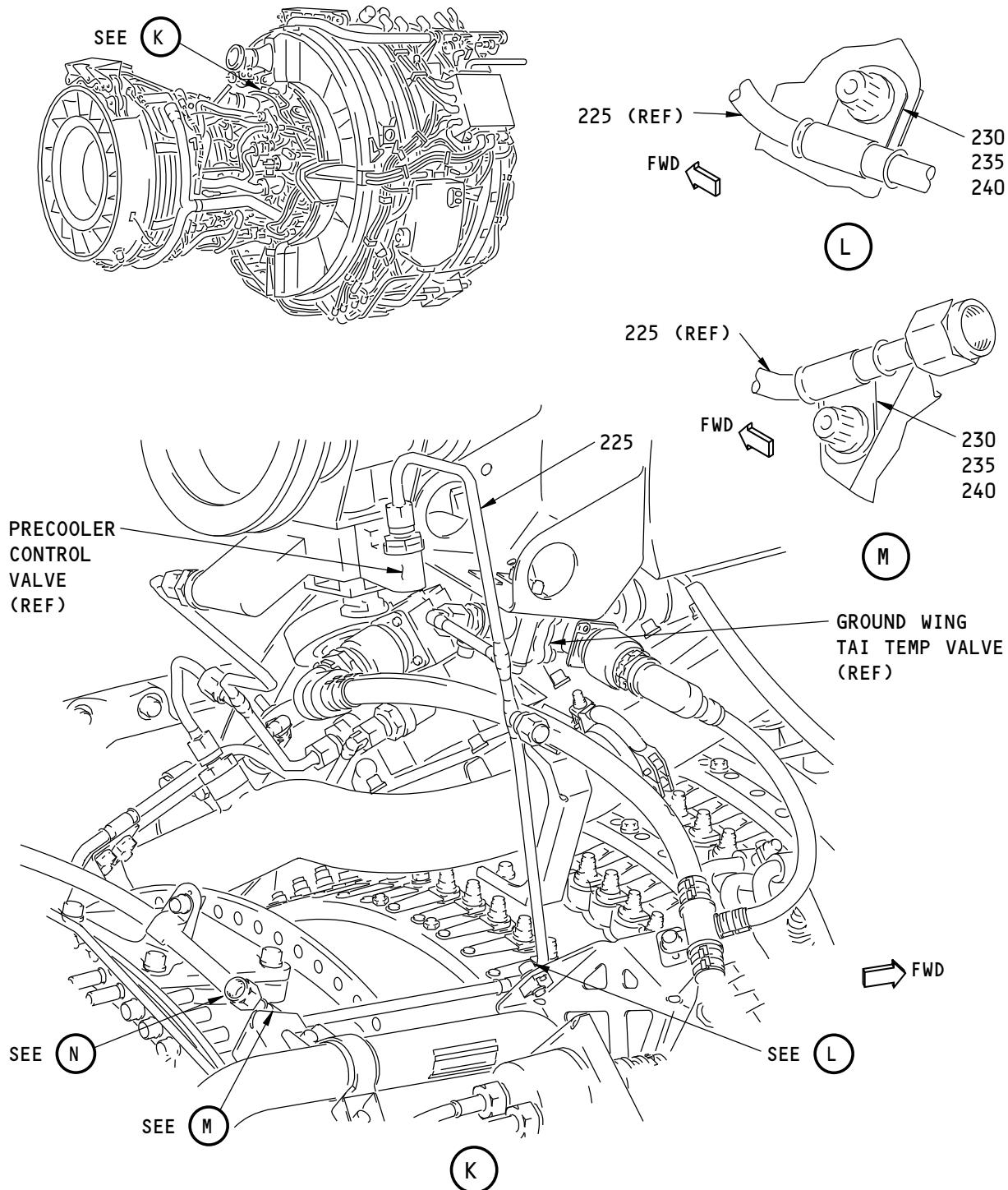
**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 17

Jun 15/2016

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Upper Bleed Control System Installation  
Figure 17-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 17-1

Page 18

Jun 15/2016

D633A106-AKS

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| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 17-1     |              | <b>UPPER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 17-1, SHEET 9)</b><br>APPLY Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE OF HEAD AND THREADS OF BOLTS (240).<br>LOOSELY INSTALL TUBE ASSY (225) ON ENGINE CORE, ALIGNING FORWARD END WITH UNION ON RIGHT SIDE OF PRECOOLER CONTROL VALVE AND UNION ON GROUND WING TAI TEMP VALVE.<br>LOOSELY ATTACH TUBE ASSY (225) TO ENGINE CORE BRACKETS AT 1 O'CLOCK POSITION. USE CLAMPS (230), CLAMPSHELLS (235) AND BOLTS (240).   |     |     |
| 225      | 332A2350-13  | . TUBE ASSY  |     | 1   |
| 230      | 1794M49P01   | . CLAMP (V96941)   | VEN | 2   |
| 235      | BACC10GT2-04 | . CLAMPSHELL   |     | 4   |
| 235      | 9352M41P16   | . CLAMPSHELL (V83930) (OPTIONAL)   | OPT | -   |
| 240      | BACB30ZF4-06 | . BOLT   |     | 2   |
| 240      | BACB30ZF4-05 | . BOLT (REPLACED BY BACB30ZF4-06)  | LTD | -   |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>ADJUST TUBE ASSY (225) TO BEST POSITION, ENSURING NO PRELOAD EXISTS. TIGHTEN TUBE ASSY (225) TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METER). BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.<br>TIGHTEN PRECOOLER CONTROL VALVE COUPLING (REF BLEED CONTROLLER INSTALLATION/Figure 14-1 ITEM NO. 120) TO TORQUE GIVEN ON PART. LIGHTLY TAP OUTER SURFACE WITH NON-METALLIC MALLET. RETIGHTEN COUPLING TO TORQUE GIVEN ON PART.<br>TIGHTEN BOLTS (240) TO 61-71 POUND-INCHES (6.9-8.0 NEWTON METERS). | CON | AR  |

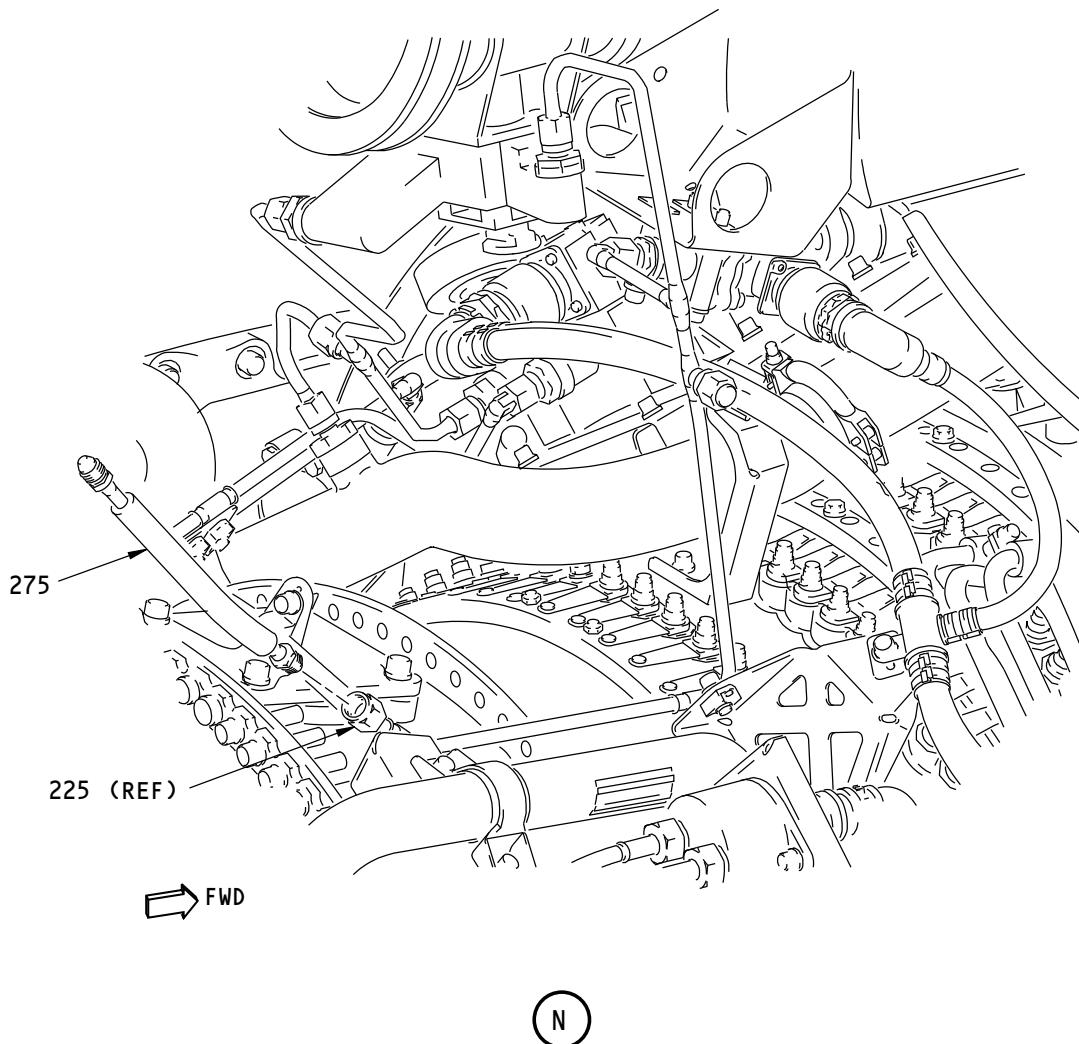
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P/P BUILDUP FIGURE 17-1

Page 19

Jun 15/2016

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**Upper Bleed Control System Installation  
Figure 17-1 (Sheet 10)**

**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 20

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

| ITEM NO.    | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|-------------|-------------|---|-----|-----|
| 17-1<br>275 | 16135-80    | <p><b>UPPER BLEED CONTROL SYSTEM INSTALLATION<br/>(FIGURE 17-1, SHEET 10)</b></p> <p>INSTALL HOSE ASSY (275) ON END OF TUBE ASSY (225).</p> <p>. HOSE ASSY (V99755) (SPEC 60B90135-80)</p> <p>TIGHTEN TUBE NUT ON HOSE ASSY (275) TO 133-147 POUND-INCHES (15.0-16.6 NEWTON METERS). BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> <p>MAKE SURE PROTECTIVE CAP IS INSTALLED ON END OF HOSE ASSY (275).</p> | VEN | 1   |

**71-00-02****P/P BUILDUP FIGURE 17-1**

Page 21

Jun 15/2016

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**FIGURE 18-1**

**BLEED DUCT INSTALLATION - UPPER 5TH- AND  
9TH-STAGE**

**REF QEC TASK NO.: 18**

**REF DWG: 332A2100  
332A2300**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

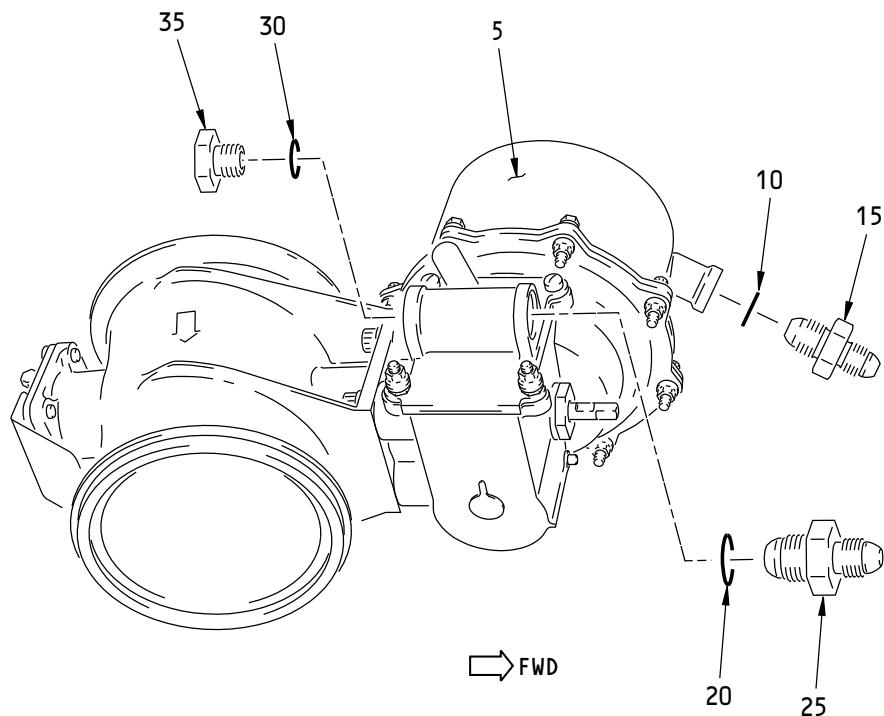
**P/P BUILDUP FIGURE 18-1**

Page 1

Jun 15/2016

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F06743 S00041153856\_V1

Upper 5th- and 9th-Stage Bleed Duct Installation  
Figure 18-1 (Sheet 1)

**71-00-02****P/P BUILDUP FIGURE 18-1**

Page 2

Jun 15/2016

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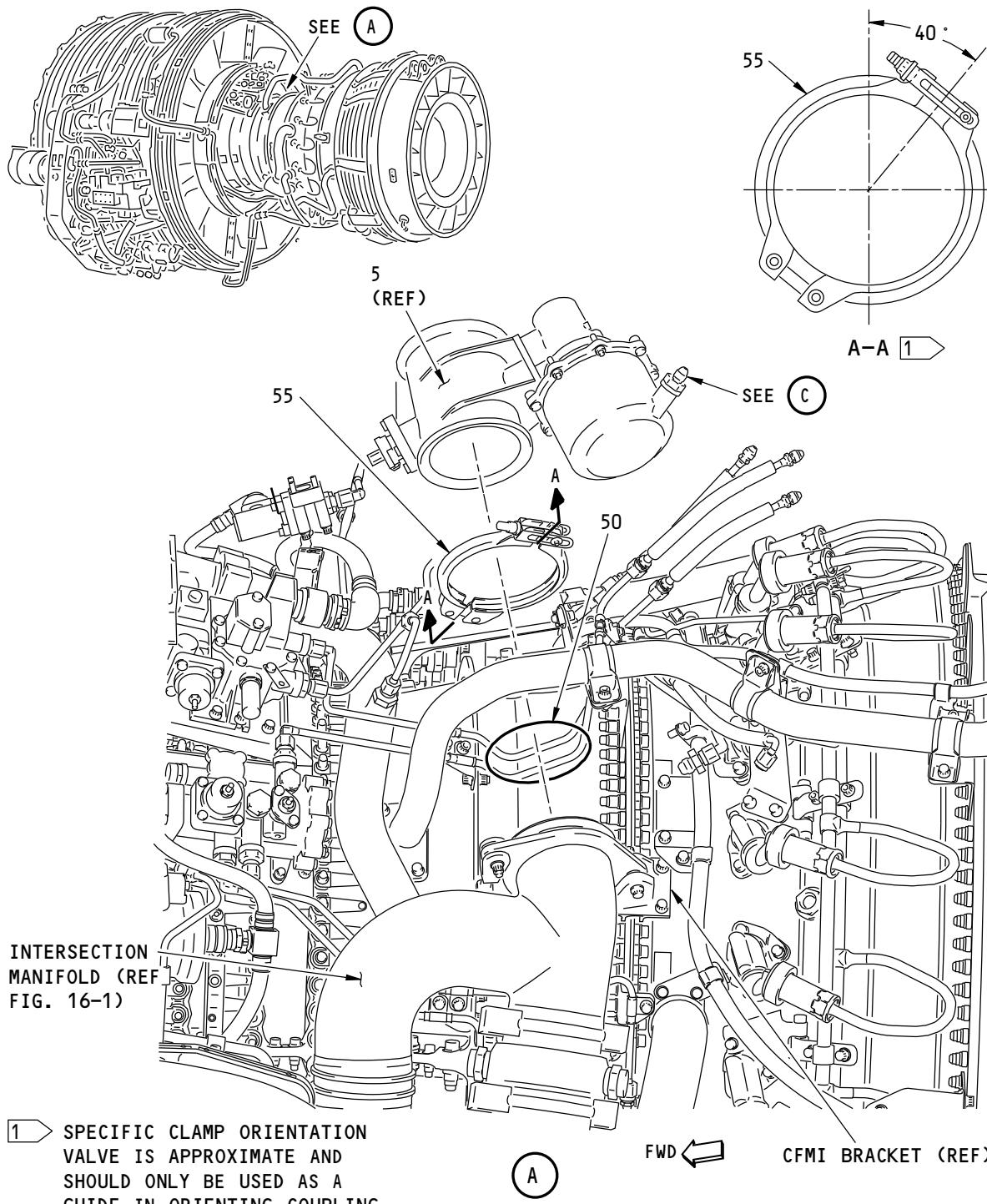
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 18-1     |               | <b>UPPER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 18-1, SHEET 1)</b><br><br>INSTALL O-RING (10) ON REDUCER (15), O-RING (20) ON REDUCER (25) AND O-RING (30) ON PLUG (35).<br>LUBRICATE THREADS OF REDUCERS (15) AND (25) AND PLUG (35) WITH Never-Seez NSBT compound, D00006 (C1).<br>INSTALL REDUCER (15) ON AFT PORT OF PRSOV (5).<br>INSTALL REDUCER (25) ON OUTBOARD PORT OF VALVE BODY AND PLUG (35) IN INBOARD PORT OF VALVE BODY. |     |     |
| 5        | 3214552-6     | . PRESS REG AND SHUTOFF VALVE (PRSOV) (V59364) (SPEC 10-62008-43)   | VEN | 1   |
| 10       | 801A50-0005-A | . O-RING (V15284)   | VEN | 1   |
| 10       | 801A50-0005A  | . O-RING (V15284) (OPTIONAL TO 801A50-0005-A)   | OPT | -   |
| 15       | J522P52       | . REDUCER (V96941)  | VEN | 1   |
| 20       | 801A50-0006-A | . O-RING (V15284)   | VEN | 1   |
| 20       | 801A50-0006A  | . O-RING (V15284) (OPTIONAL TO 801A50-0006-A)   | OPT | -   |
| 25       | J522P53       | . REDUCER (V90806)  | VEN | 1   |
| 30       | 801A50-0006-A | . O-RING (V15284)   | VEN | 1   |
| 30       | 801A50-0006A  | . O-RING (V15284) (OPTIONAL TO 801A50-0006-A)   | OPT | -   |
| 35       | AS5169J06     | . PLUG  |     | 1   |
| C1       | D00006        | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN REDUCER (15) TO 180-200 POUND-INCHES (20-23 NEWTON METERS).<br><br>TIGHTEN REDUCER (25) AND PLUG (35) TO 257-284 POUND-INCHES (29-32 NEWTON METERS).   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 18-1**

Page 3

Jun 15/2016

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Upper 5th- and 9th-Stage Bleed Duct Installation  
Figure 18-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 18-1

Page 4

Jun 15/2016

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**POWERPLANT BUILDUP MANUAL**

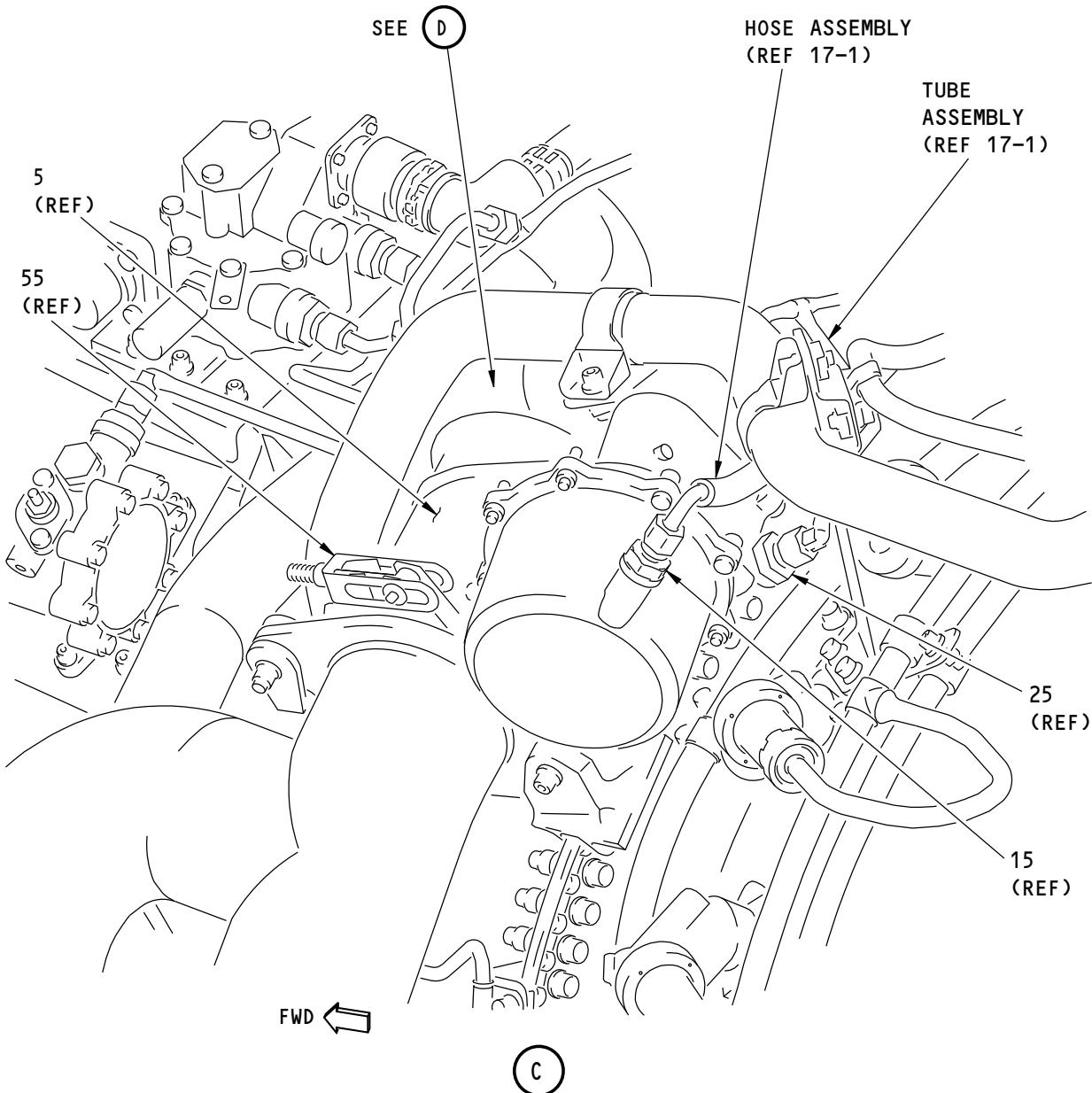
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 18-1     |             | <b>UPPER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 18-1, SHEET 2)</b> <p><b>NOTE:</b> ALL DUCT COUPLINGS HAVE A DRY-FILM LUBRICANT. DO NOT APPLY ANY ADDITIONAL LUBRICANT. VISUALLY EXAMINE ALL SEAL AND FLANGE SEALING SURFACES BEFORE INSTALLATION TO ENSURE NO SCRATCHES, CUTS, PITS, OR FOREIGN MATERIAL IS PRESENT.</p> <p>LOOSELY ATTACH PRSOV (5) TO TOP PORT OF INTERSECTION MANIFOLD WITH SEAL (50) AND COUPLING (55).</p> <p>ORIENT COUPLING (55) AS SHOWN.</p> <p><b>NOTE:</b> FINAL ORIENTATION OF PRSOV IS DETERMINED BY BLEED CONTROL LINES.</p> <p>50 AS1895-7-350 . SEAL 1</p> <p>50 AS1895/7-350 . SEAL (OPTIONAL TO AS1895-7-350) OPT -</p> <p>55 AS1895-1-350 . COUPLING 1</p> <p>55 AS1895/1-350 . COUPLING (OPTIONAL TO AS1895-1-350) OPT -</p> <p><b>NOTE:</b> CFMI BRACKET (REF) MAY BE LOOSENED TO ALLOW COUPLING (55) TO BE INSTALLED OVER VALVE (5). RETIGHTEN CFMI FASTENERS TO 209-231 POUND-INCHES (23.6-26.1 NEWTON METERS).</p> |    |     |

**71-00-02****P/P BUILDUP FIGURE 18-1**

Page 5

Jun 15/2016

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F07056 S00041153858\_V1

Upper 5th- and 9th-Stage Bleed Duct Installation  
Figure 18-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 18-1

Page 6

Jun 15/2016

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**737-600/700/800/900**  
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| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 18-1     |             | <p><b>UPPER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 18-1, SHEET 3)</b></p> <p><b>CAUTION:</b> MAKE SURE NO PRELOAD EXISTS BETWEEN PRSOV AND BLEED CONTROL LINES.</p> <p>ATTACH TUBE ASSY BLEED CONTROL SYSTEM INSTALLATION - UPPER/Figure 17-1 TO REDUCER (25) AND ATTACH HOSE ASSY BLEED CONTROL SYSTEM INSTALLATION - UPPER/Figure 17-1 TO REDUCER (15).</p> <p>USE TUBE AND HOSE ASSYS TO ORIENT PRSOV (5).</p> <p>TIGHTEN COUPLING (55) TO TORQUE SPECIFIED ON PART. LIGHTLY TAP SURFACE OF COUPLING WITH NON-METALLIC MALLET.</p> <p>RETIGHTEN COUPLING TO TORQUE SPECIFIED ON PART.</p> |    |     |

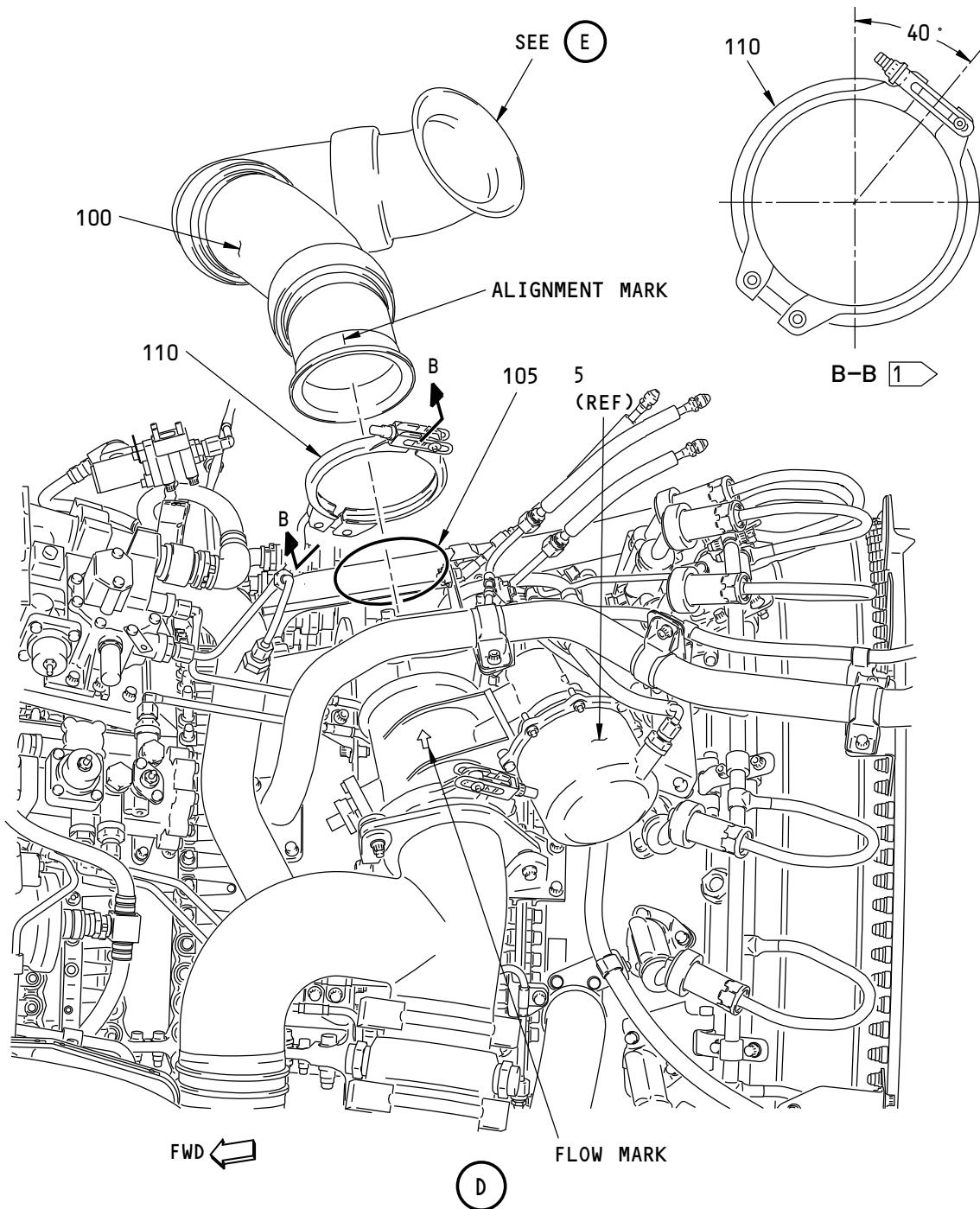
**71-00-02****P/P BUILDUP FIGURE 18-1**

Page 7

Jun 15/2016

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Upper 5th- and 9th-Stage Bleed Duct Installation  
Figure 18-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 18-1

Page 8

Jun 15/2016

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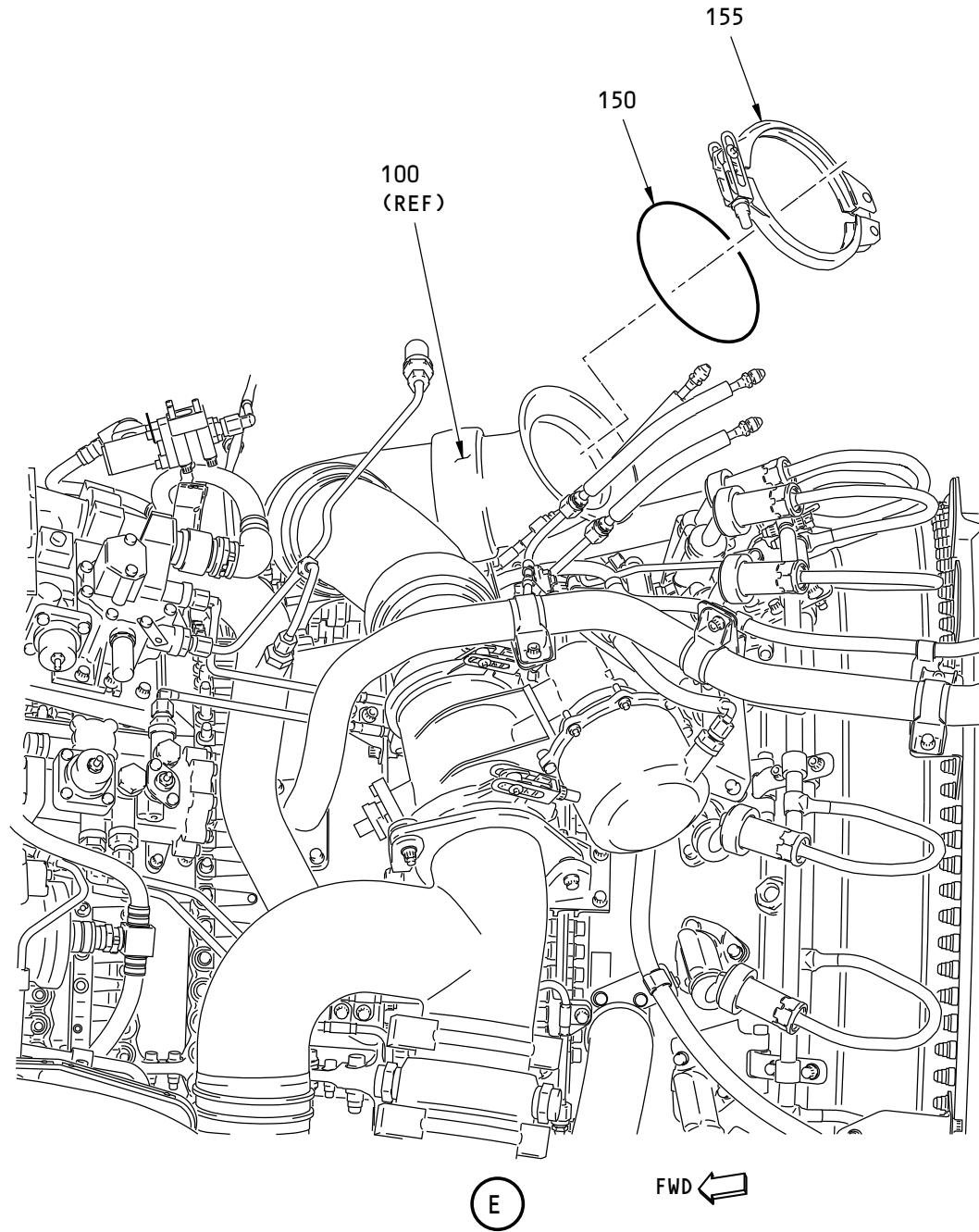
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 18-1     |              | <b>UPPER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION (FIGURE 18-1, SHEET 4)</b><br><br>LOOSELY ATTACH DUCT ASSY (100) TO TOP OF PRSOV (5) WITH SEAL (105) AND COUPLING (110).<br>MAKE SURE ALIGNMENT MARK ON DUCT ASSY (100) ALIGNS WITH FLOW ARROW ON PRSOV (5).<br>ORIENT COUPLING (110) AS SHOWN.<br><br><b>NOTE:</b> IT WILL BE NECESSARY TO ADJUST THE DUCT ASSY FOR PROPER ALIGNMENT WITH THE PRECOOLER DURING ENGINE INSTALLATION. |     |     |
| 100      | 332A2326-45  | . DUCT ASSY  |     | 1   |
| 105      | AS1895-7-350 | . SEAL   |     | 1   |
| 105      | AS1895/7-350 | . SEAL (OPTIONAL TO AS1895-7-350)  | OPT | -   |
| 110      | AS1895-1-350 | . COUPLING   |     | 1   |
| 110      | AS1895/1-350 | . COUPLING (OPTIONAL TO AS1895-1-350)  | OPT | -   |
|          |              | TIGHTEN COUPLING (110) TO TORQUE SPECIFIED ON PART.<br>LIGHTLY TAP SURFACE OF COUPLING WITH NON-METALLIC MALLET.<br>RETIGHTEN COUPLING TO TORQUE SPECIFIED ON PART.  |     |     |

**71-00-02****P/P BUILDUP FIGURE 18-1**

Page 9

Jun 15/2016

D633A106-AKS



F07204 S00041153860\_V1

Upper 5th- and 9th-Stage Bleed Duct Installation  
Figure 18-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 18-1

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 18-1     |              | <b>UPPER 5TH- AND 9TH-STAGE BLEED DUCT INSTALLATION<br/>(FIGURE 18-1, SHEET 5)</b><br><br>PUT ITEMS (150) AND (155) IN A BAG AND SECURE TO DUCT ASSY (100).<br><br><b>NOTE:</b> ITEMS (150) AND (155) ARE INSTALLED DURING POWERPLANT INSTALLATION ON AIRPLANE STRUT (AMM PAGEBLOCK 71-00-02/401). |     |     |
| 150      | AS1895-7-450 | . SEAL   |     | 1   |
| 150      | AS1895/7-450 | . SEAL (OPTIONAL TO AS1895-7-450)  | OPT | -   |
| 155      | AS1895-4-450 | . COUPLING   |     | 1   |
| 155      | AS1895/4-450 | . COUPLING (OPTIONAL TO AS1895-4-450)  | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 18-1**

Page 11

Jun 15/2016

D633A106-AKS

**FIGURE 20-1**

**HYDRAULIC PUMP INSTALLATION**  
**(VICKERS)**

**REF QEC TASK NO.: 20**

**REF DWG: 332A2400**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

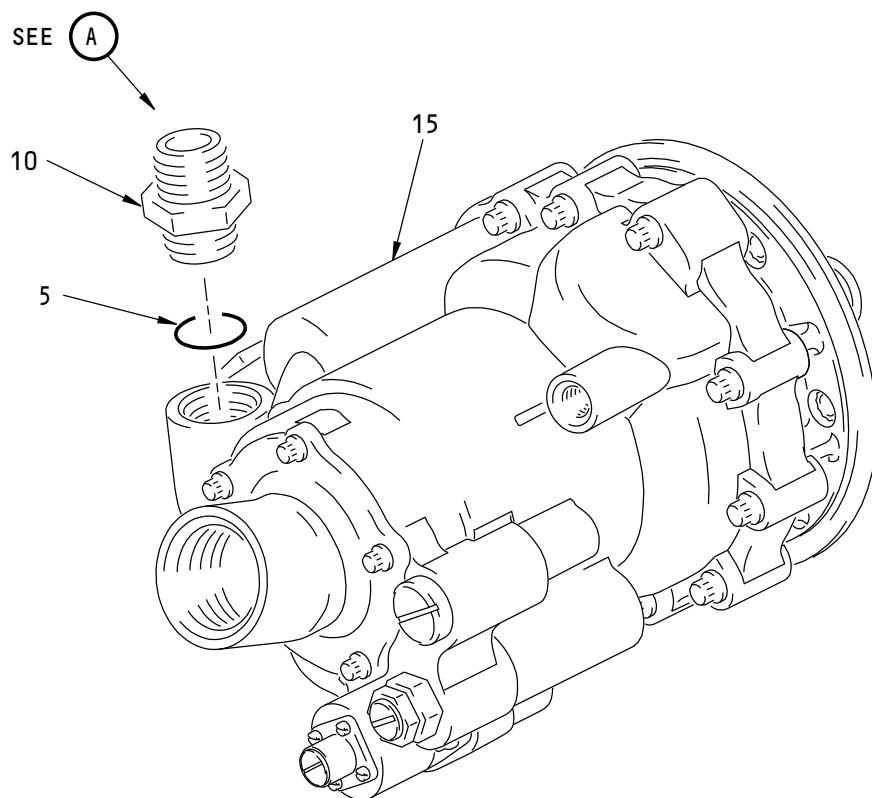
**P/P BUILDUP FIGURE 20-1**

**Page 1**

**Jun 15/2016**

**D633A106-AKS**

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VICKERS HYDRAULIC PUMP

F12248 S00041153862\_V1

Hydraulic Pump Installation -  
(VICKERS)  
Figure 20-1 (Sheet 1)

**71-00-02****P/P BUILDUP FIGURE 20-1**

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 20-1     |             | <p><b>HYDRAULIC PUMP INSTALLATION - (VICKERS)<br/>(FIGURE 20-1, SHEET 1)</b></p> <p><b><u>WARNING:</u></b> FIRE-RESISTANT HYDRAULIC FLUIDS CONFORMING TO BMS 3-11 (SKYDROL) MAY CAUSE SKIN IRRITATION. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. IN CASE OF EYE CONTACT, FLUSH EYES WITH WATER AND GET MEDICAL AID. IN CASE OF INGESTION, GET MEDICAL AID.</p> <p>LUBRICATE PACKING (5) AND THREADS OF UNION (10) WITH MCS 352B fluid, D00054 (C1).</p> <p>INSTALL PACKING (5) ON UNION (10) AND INSTALL UNION (10) TO PRESSURE PORT OF HYDRAULIC PUMP (15). TIGHTEN UNION (10) TO 428-473 POUND-INCHES (48.3-53.4 NEWTON METERS).</p> |     |     |
| 5        | NAS1612-12A | . PACKING   |     | 1   |
| 10       | AS5230T1212 | . UNION   |     | 1   |
| 15       | 849589      | . VICKERS HYDRAULIC PUMP (V62983) (SPEC 10-62167-3)   | VEN | 1   |
| C1       | D00054      | . MCS 352B FLUID  | CON | AR  |

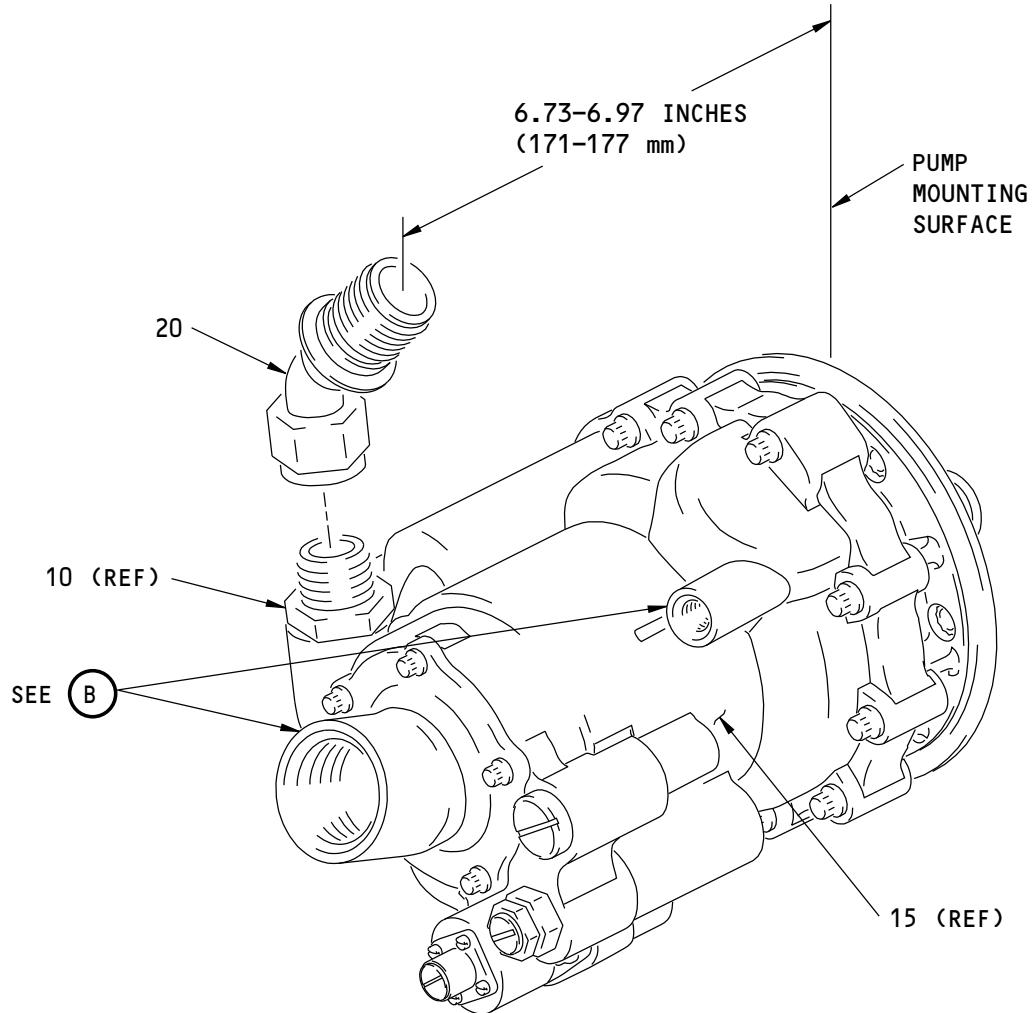
**71-00-02**

**P/P BUILDUP FIGURE 20-1**

Page 3

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

VICKERS HYDRAULIC PUMP

G09953 S00041153863\_V1

Hydraulic Pump Installation -  
(VICKERS)  
Figure 20-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 20-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 20-1     |              | HYDRAULIC PUMP INSTALLATION - (VICKERS)<br>(FIGURE 20-1, SHEET 2)   |     |     |
| 20       | 155012-73-20 | LUBRICATE THREADS OF QUICK-RELEASE FITTING (20) WITH<br>MCS 352B fluid, D00054 (C1) OR hydraulic fluid, D00153 (C2).                                      | VEN | 1   |
| C1       | D00054       | . FITTING, QUICK RELEASE (V11362) (SPEC S332A210-20)  | CON | AR  |
| C2       | D00153       | . MCS 352B FLUID<br>. HYDRAULIC FLUID   | CON | AR  |
|          |              | LOOSELY ATTACH FITTING (20) TO UNION (10) AND ORIENT<br>FITTING (20) UNTIL CENTER OF FITTING IS 6.73-6.97 INCHES<br>(171-177 MM) FROM PUMP MOUNTING FACE. |     |     |
|          |              | TIGHTEN FITTING (20) TO 855-945 POUND-INCHES (96.6-106.8<br>NEWTON METERS). BACK OFF FITTING TO RELAX TORQUE,<br>THEN RETIGHTEN.                          |     |     |
|          |              | RECHECK DISTANCE BETWEEN FITTING (20) AND PUMP<br>MOUNTING FLANGE. IF OUTSIDE LIMIT, LOOSEN AND READJUST.   |     |     |

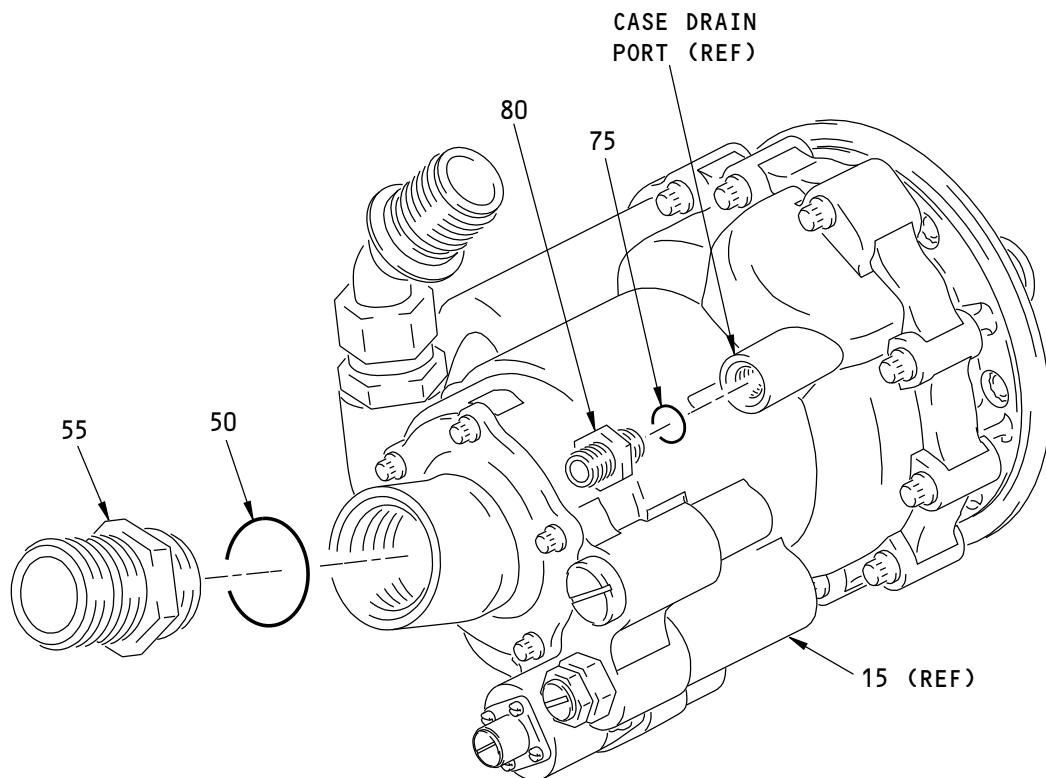
**71-00-02****P/P BUILDUP FIGURE 20-1**

Page 5

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

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Hydraulic Pump Installation -  
(VICKERS)  
Figure 20-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 20-1

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

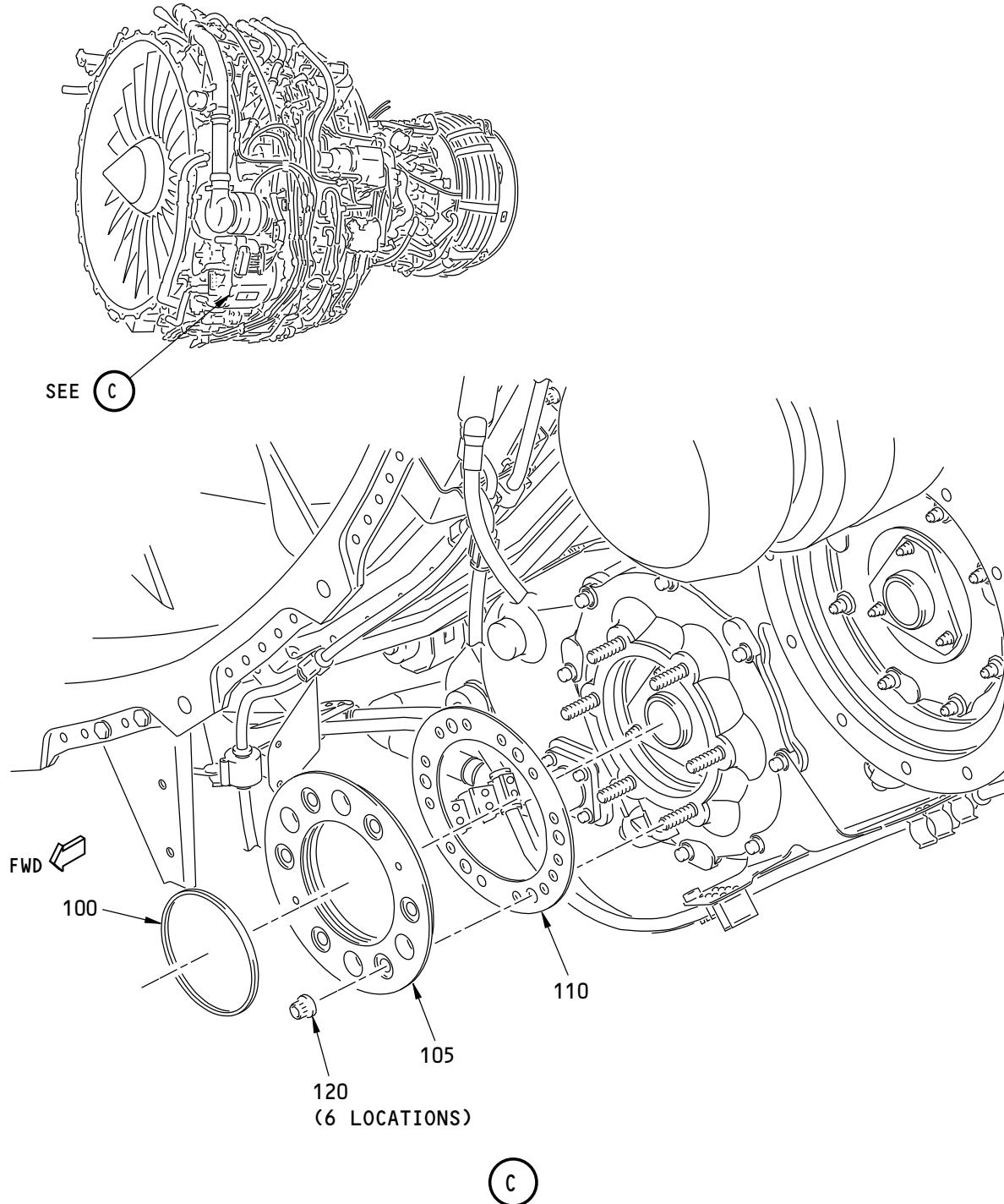
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 20-1     |             | <p><b>HYDRAULIC PUMP INSTALLATION - (VICKERS)<br/>(FIGURE 20-1, SHEET 3)</b></p> <p>LUBRICATE PACKING (50) AND THREADS OF UNION (55) WITH MCS 352B fluid, D00054 (C1).</p> <p>INSTALL PACKING (50) ON UNION (55) AND INSTALL UNION (55) TO HYDRAULIC SUPPLY PORT OF HYDRAULIC PUMP (15). TIGHTEN UNION (55) TO 855-945 POUND-INCHES (96.6-106.8 NEWTON METERS).</p> <p><b>NOTE:</b> MAKE SURE SINGLE THREADED END OF FITTING IS INSTALLED IN PUMP END.</p> |     |     |
| 50       | NAS1612-20A | . PACKING  |     | 1   |
| 55       | AS1007T2020 | . UNION  |     | 1   |
| C1       | D00054      | . MCS 352B FLUID   | CON | AR  |
|          |             | LUBRICATE PACKING (75) AND THREADS OF UNION (80) WITH MCS 352B fluid, D00054 (C1).   |     |     |
|          |             | INSTALL PACKING (75) ON UNION (80) AND INSTALL UNION (80) TO CASE DRAIN PORT OF HYDRAULIC PUMP (15). TIGHTEN UNION (80) TO 162-179 POUND-INCHES (18.3-20.2 NEWTON METERS).   |     |     |
| 75       | NAS1612-6A  | . PACKING  |     | 1   |
| 80       | AS5230T0606 | . UNION  |     | 1   |
| C1       | D00054      | . MCS 352B FLUID   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 20-1**

Page 7

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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**Hydraulic Pump Installation -  
(VICKERS)**  
Figure 20-1 (Sheet 4)

**71-00-02****P/P BUILDUP FIGURE 20-1**

Page 8

Jun 15/2016

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**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

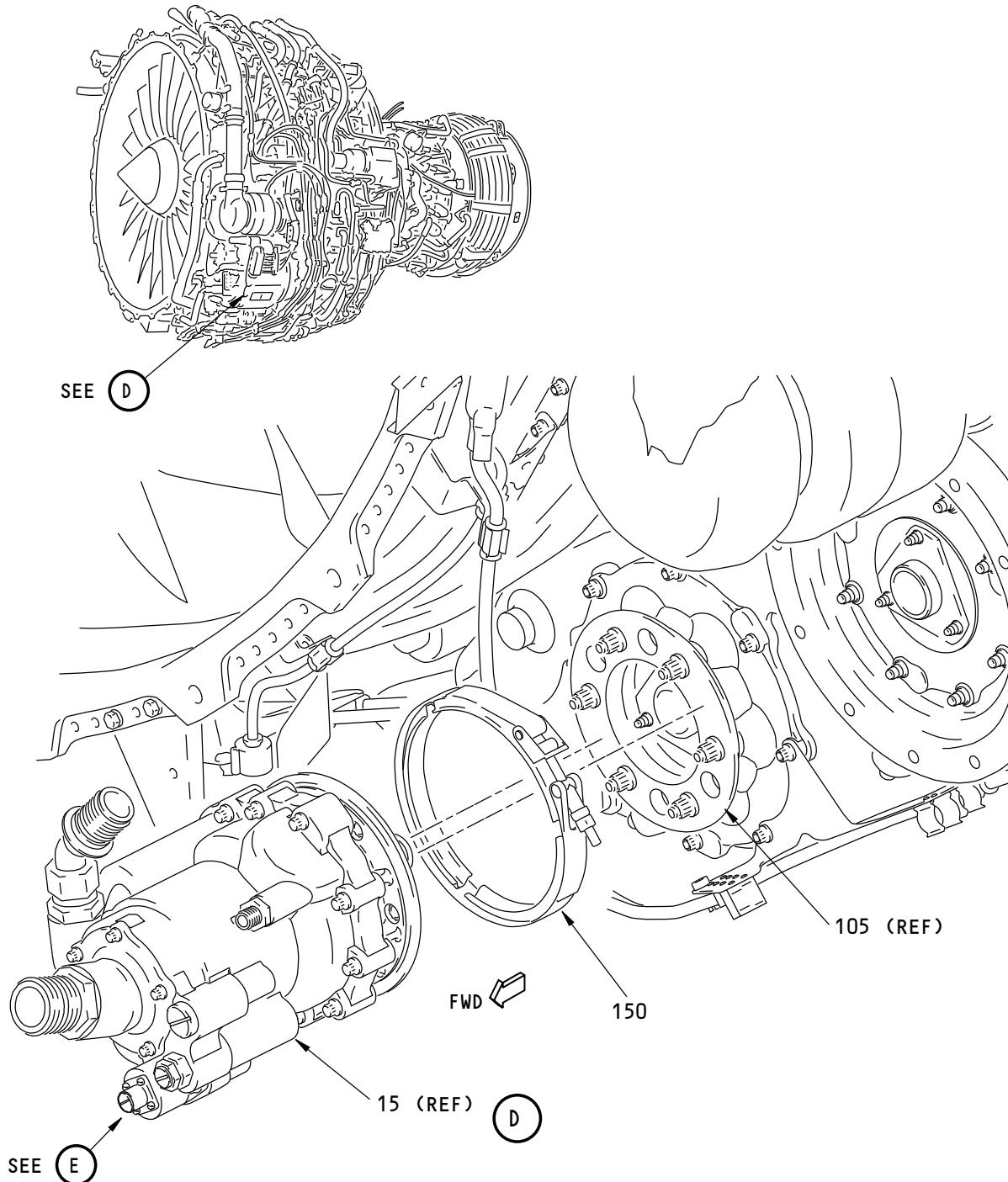
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 20-1     |              | <b>HYDRAULIC PUMP INSTALLATION - (VICKERS)<br/>(FIGURE 20-1, SHEET 4)</b><br><br>REMOVE PROTECTIVE CAP, WASHERS AND NUTS FROM AGB HYDRAULIC PAD AND DISCARD.<br><br>LUBRICATE PUMP PACKING WITH MCS 352B fluid, D00054 (C1) AND INSTALL ON INNER SURFACE OF ADAPTER PLATE. |     |     |
| 100      | NAS1611-153A | . . PUMP PACKING (PART OF 849589 (15)) (VENDOR PART NUMBER 972703) (V62983)  | REF | -   |
| 105      | 387999       | . . ADAPTER PLATE (V62983) (PART OF 849589 (15))   | REF | -   |
| C1       | D00054       | . . MCS 352B FLUID   | CON | AR  |
| C3       | D00276       | APPLY A THIN COATING OF Novagard G624 Compound, D00276 (C3) OR silicone compound, D00254 (C4) TO MATING SURFACES OF ADAPTER PLATE (105) AND ACCESSORY GEARBOX.   | CON | AR  |
| C4       | D00254       | . . NOVAGARD G624 COMPOUND<br>. . SILICONE COMPOUND  | CON | AR  |
|          |              | ATTACH ADAPTER PLATE (105) AND GASKET (110) TO ENGINE GEARBOX WITH NUTS (120).   |     |     |
|          |              | CROSS-TIGHTEN NUTS (120) TO 260-320 POUND-INCHES (29.4-36.1 NEWTON METERS).  |     |     |
|          |              | <b>NOTE:</b> MAKE SURE INDEXING PINS ON ADAPTER PLATE ARE AT 2 AND 8 O'CLOCK POSITIONS (VIEW LOOKING AFT) AFTER INSTALLATION.  |     |     |
| 110      | 332T3323-2   | . . GASKET   |     | 1   |
| 120      | BACN10HY6AC  | . . NUT  |     | 6   |

**71-00-02****P/P BUILDUP FIGURE 20-1**

Page 9

Jun 15/2016

D633A106-AKS



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Hydraulic Pump Installation -  
(VICKERS)  
Figure 20-1 (Sheet 5)

**71-00-02****P/P BUILDUP FIGURE 20-1**

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO.    | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|-------------|-------------|--|-----|-----|
| 20-1<br>150 | 974219      | <p><b>HYDRAULIC PUMP INSTALLATION - (VICKERS)<br/>(FIGURE 20-1, SHEET 5)</b></p> <p>INSTALL CLAMP RING (150) ON ADAPTER PLATE FLANGES.</p> <p>POSITION HYDRAULIC PUMP (15) ON ADAPTER PLATE (105) AND SECURE WITH CLAMP RING.</p> <p>POSITION CLAMP RING (150) WITH BOLT CLOCKED AT 2 O'CLOCK POSITION (LOOKING AFT) TO CLEAR ENGINE DRAIN PORT.</p> <p>TIGHTEN CLAMP RING (150) NUT TO 45-55 POUND-INCHES (5.1-6.2 NEWTON METERS).</p> <p>. . CLAMP RING (V62983) (PART OF 849589 (15))</p> | REF | -   |

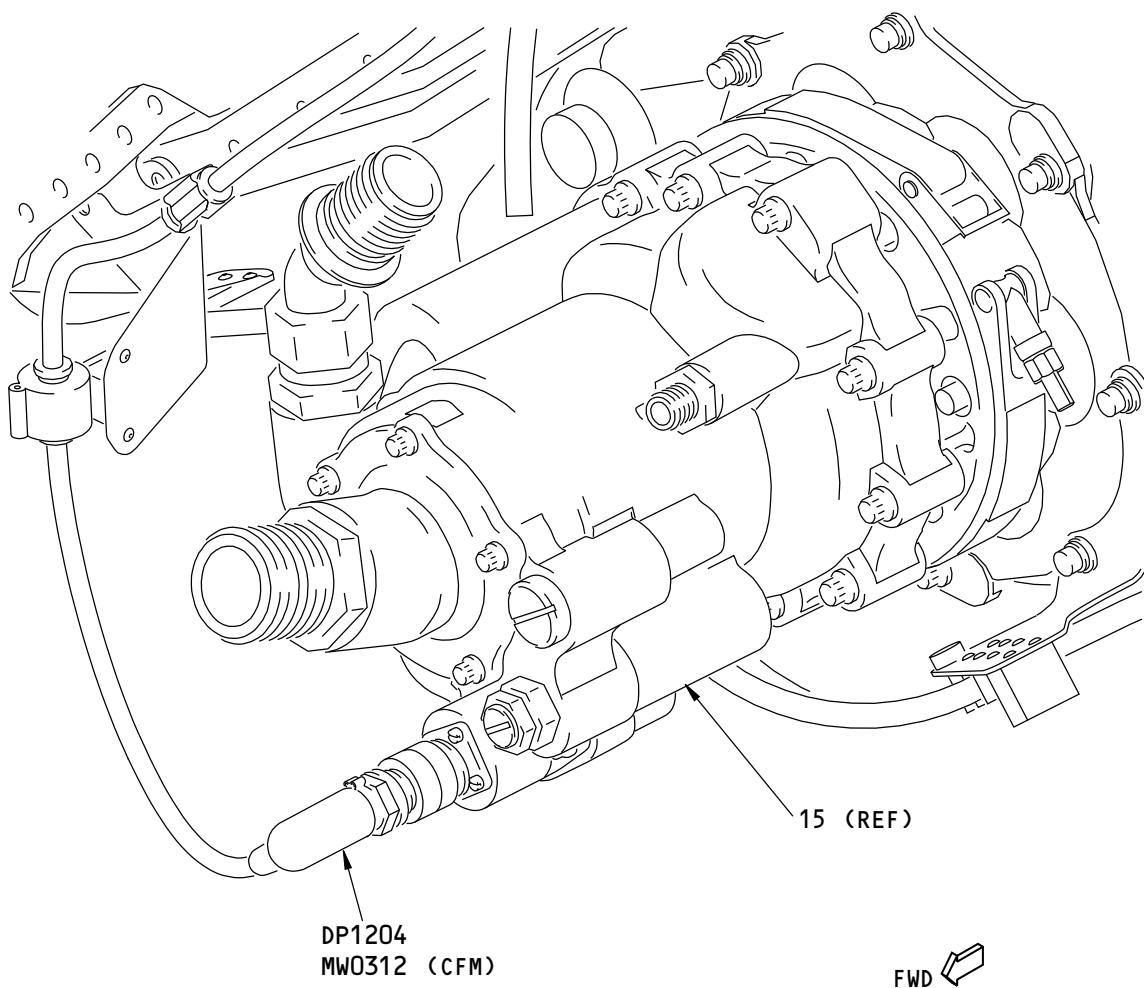
**71-00-02****P/P BUILDUP FIGURE 20-1**

Page 11

Jun 15/2016

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Hydraulic Pump Installation -  
(VICKERS)  
Figure 20-1 (Sheet 6)

**71-00-02****P/P BUILDUP FIGURE 20-1**

Page 12

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 20-1     |             | <p><b>HYDRAULIC PUMP INSTALLATION - (VICKERS)<br/>(FIGURE 20-1, SHEET 6)</b></p> <p><b>CAUTION:</b> DO NOT OVERTIGHTEN THE PLUG COUPLING RING. DO NOT USE PLIERS, PIPE WRENCHES OR VISE GRIPS TO TIGHTEN THE COUPLING RING OR DAMAGE TO THE ELECTRICAL CONNECTOR CAN OCCUR.</p> <p>CONNECT MW0312 ELECTRICAL CONNECTOR, DP1204, TO PUMP CONNECTOR RECEPTACLE. TURN KNURLED COUPLING RING WHILE WIGGLING THE BACKSHELL ASSEMBLY.</p> <p>AFTER FULLY SEATING THE COUPLING RING, TIGHTEN THE COUPLING RING TO FINGER TIGHT. DO NOT TWIST BACKSHELL WHILE TIGHTENING THE COUPLING RING.</p> <p><b>NOTE:</b> AFTER TIGHTENING, MINOR ROTATION OF THE MATED BACKSHELL IS ACCEPTABLE, AND THE CONNECTOR MAY APPEAR LOOSE.</p> |    |     |

**71-00-02**

**P/P BUILDUP FIGURE 20-1**

Page 13

Jun 15/2016

D633A106-AKS

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**FIGURE 21-1**

**HYDRAULIC PLUMBING INSTALLATION**

**REF QEC TASK NO.: 21**

**REF DWG: 332A2400**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

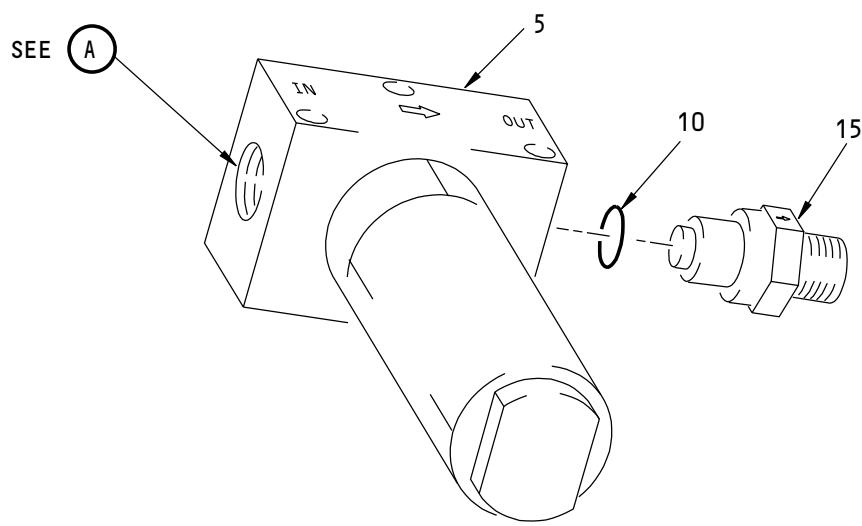
**P/P BUILDUP FIGURE 21-1**

Page 1

Jun 15/2016

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HYDRAULIC FILTER

F07209 S00041153876\_V1

Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 1)**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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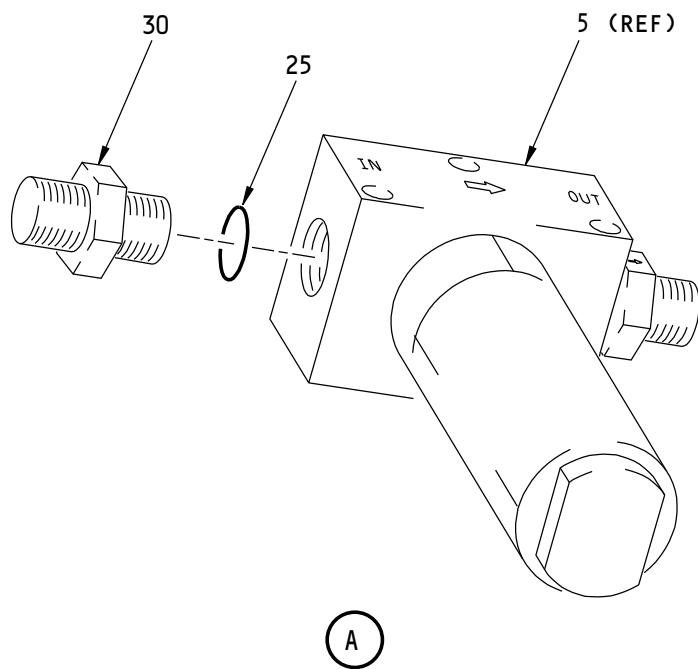
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 21-1     |             | <p><b>HYDRAULIC PLUMBING INSTALLATION (FIGURE 21-1, SHEET 1)</b></p> <p><b>WARNING:</b> FIRE-RESISTANT HYDRAULIC FLUIDS CONFORMING TO BMS 3-11 (SKYDROL) MAY CAUSE SKIN IRRITATION. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. IN CASE OF EYE CONTACT, FLUSH EYES WITH WATER AND GET MEDICAL AID. IN CASE OF INGESTION, GET MEDICAL AID.</p> <p>LUBRICATE PACKING (10) AND THREADS OF CHECK VALVE (15) WITH MCS 352B fluid, D00054 (C1).</p> <p>INSTALL PACKING (10) ON CHECK VALVE (15).</p> <p><b>CAUTION:</b> MAKE SURE THAT THE ARROWS ON THE CHECK VALVE, AND HYDRAULIC FILTER POINT IN SAME DIRECTION. IF THE ARROWS POINT IN DIFFERENT DIRECTIONS, DAMAGE TO THE EDP WILL OCCUR.</p> <p>INSTALL CHECK VALVE (15) TO "OUTLET" PORT OF HYDRAULIC FILTER (5).</p> <p>. HYDRAULIC FILTER (V05228) (SPEC 10-60555-7)</p> <p>. PACKING</p> <p>. CHECK VALVE, MINIATURE</p> <p>. MCS 352B FLUID</p> <p>TIGHTEN CHECK VALVE (15) TO 162-178 POUND-INCHES (18.3-20.1 NEWTON METERS).</p> |     |     |
| 5        | 7579078     | . HYDRAULIC FILTER (V05228) (SPEC 10-60555-7)  | VEN | 1   |
| 10       | NAS1612-6A  | . PACKING  |     | 1   |
| 15       | BACV10CE12  | . CHECK VALVE, MINIATURE   |     | 1   |
| C1       | D00054      | . MCS 352B FLUID   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 3

Jun 15/2016

D633A106-AKS



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**Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 2)****71-00-02****P/P BUILDUP FIGURE 21-1**

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

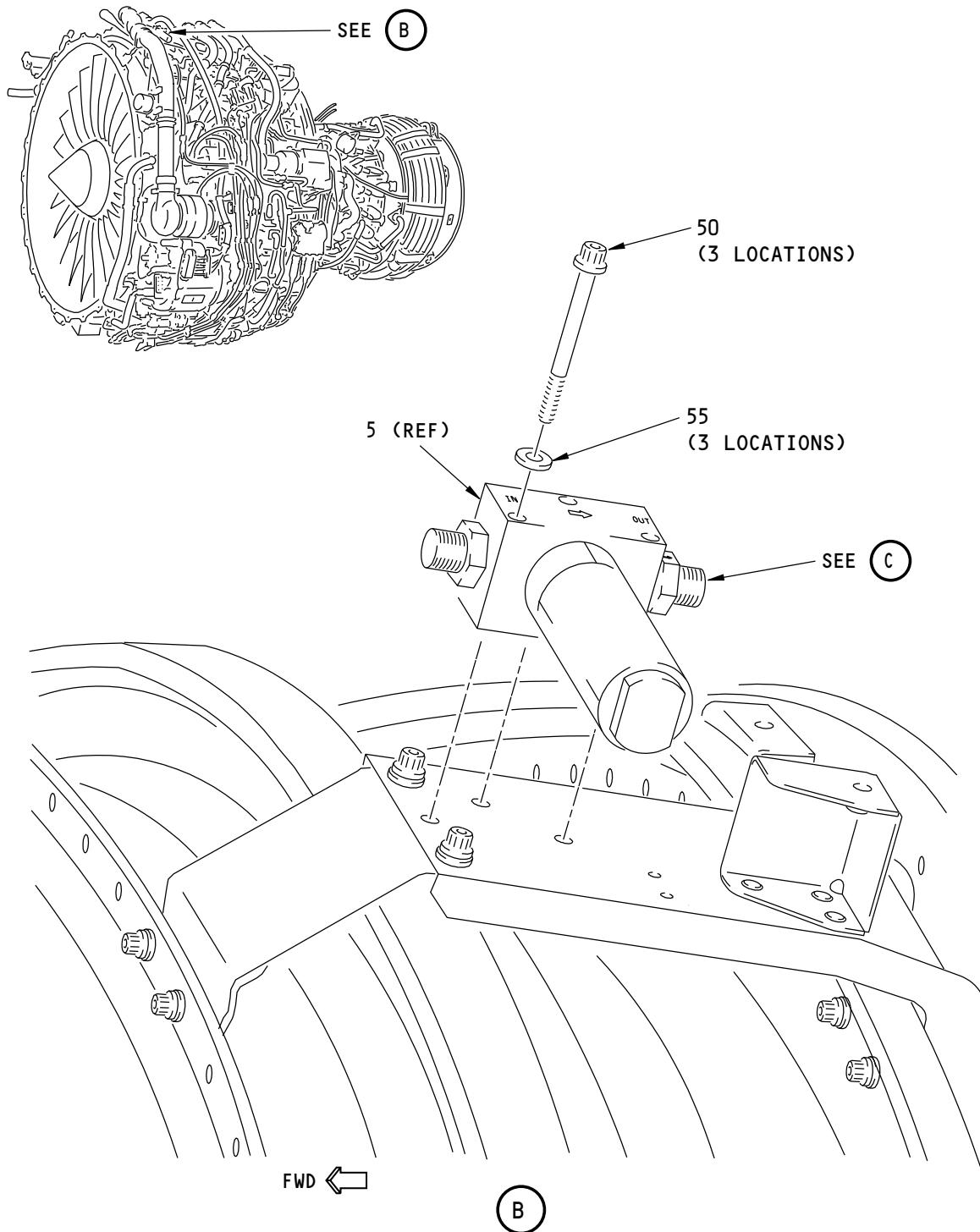
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 21-1     |             | <b>HYDRAULIC PLUMBING INSTALLATION<br/>(FIGURE 21-1, SHEET 2)</b><br><br>LUBRICATE PACKING (25) AND THREADS OF UNION (30) WITH MCS 352B fluid, D00054 (C1).<br>INSTALL PACKING (25) ON UNION (30) AND INSTALL ON "IN" PORT OF HYDRAULIC FILTER (5). |     |     |
| 25       | NAS1612-6A  | . PACKING   |     | 1   |
| 30       | AS5230T0606 | . UNION   |     | 1   |
| C1       | D00054      | . MCS 352B FLUID<br><br>TIGHTEN UNION (30) TO 162-178 POUND-INCHES (18.3-20.1 NEWTON METERS).   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 5

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 21-1

Page 6

Jun 15/2016

D633A106-AKS

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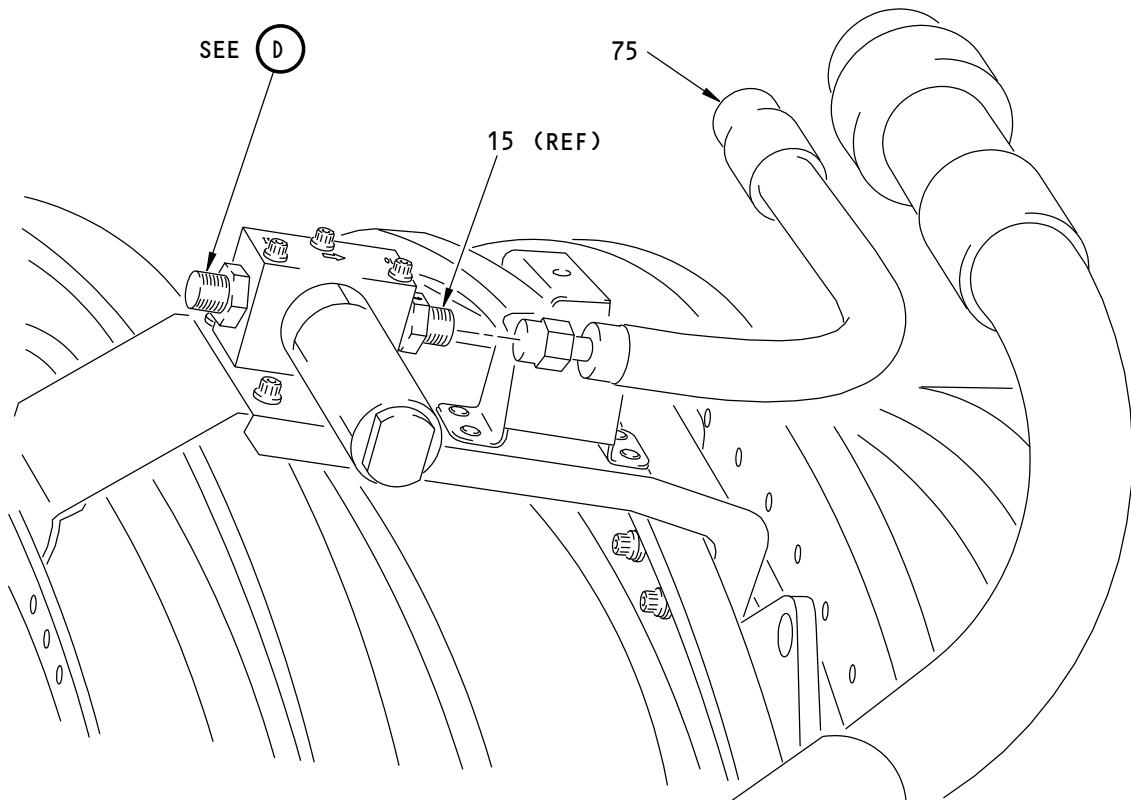
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC | QTY |
|----------|---------------|---|----|-----|
| 21-1     |               | <b>HYDRAULIC PLUMBING INSTALLATION</b><br><b>(FIGURE 21-1, SHEET 3)</b><br><br>ATTACH HYDRAULIC FILTER (5) TO ENGINE BRACKET AT 11 O'CLOCK POSITION WITH BOLTS (50) AND WASHERS (55).<br><br><b>NOTE:</b> MAKE SURE FLOW ARROW ON HYDRAULIC FILTER (5) POINTS AFT (IN DIRECTION OF FLOW). |    |     |
| 50       | BACB30ZF4-32  | . BOLT  |    | 3   |
| 55       | NAS1149C0432R | . WASHER  |    | 3   |
|          |               | TIGHTEN THE BOLTS (50) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |    |     |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 7

Jun 15/2016

D633A106-AKS



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**Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 4)****71-00-02****P/P BUILDUP FIGURE 21-1**

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 21-1     |              | <b>HYDRAULIC PLUMBING INSTALLATION<br/>(FIGURE 21-1, SHEET 4)</b><br>LUBRICATE THREADS OF CHECK VALVE (15) WITH MCS 352B fluid, D00054 (C1).<br>SECURE HYDRAULIC CASE DRAIN HOSE ASSY (75) TO CHECK VALVE (15).<br><b>NOTE:</b> MAKE SURE NO PRELOAD IS PRESENT ON HOSE ASSY.<br>. HOSE ASSY, HYDRAULIC CASE DRAIN (V11362) (SPEC S332A210-23)<br>. MCS 352B FLUID<br>TIGHTEN HOSE ASSY (75) TO 257-283 POUND-INCHES (29.0-32.0 NEWTON METERS).<br>BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.<br>MAKE SURE PROTECTIVE CAP IS INSTALLED ON OPEN END OF HOSE ASSY (75). |     |     |
| 75       | 155006-06-23 |   | VEN | 1   |
| C1       | D00054       |   | CON | AR  |

**71-00-02**

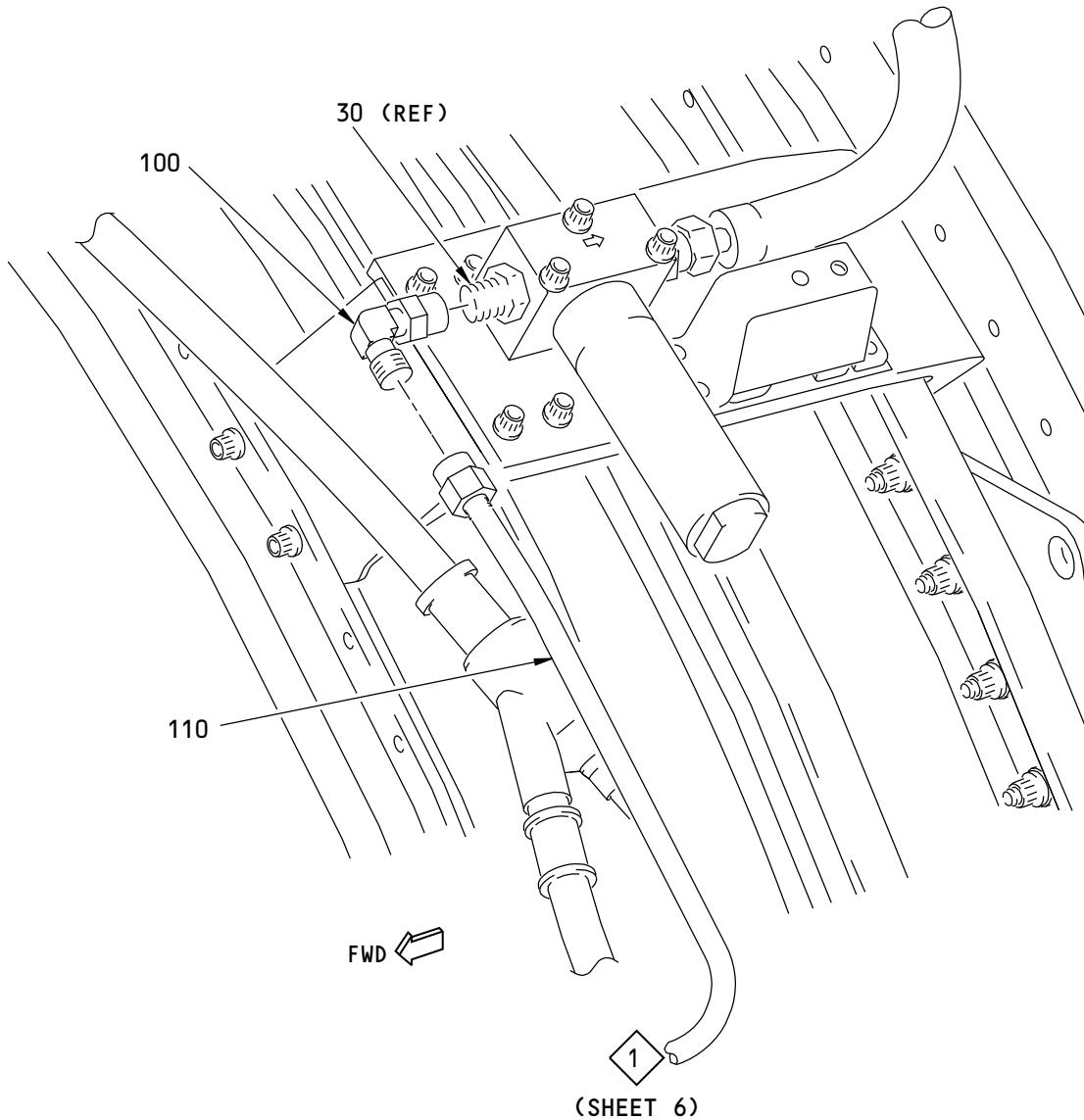
**P/P BUILDUP FIGURE 21-1**

Page 9

Jun 15/2016

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Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 21-1

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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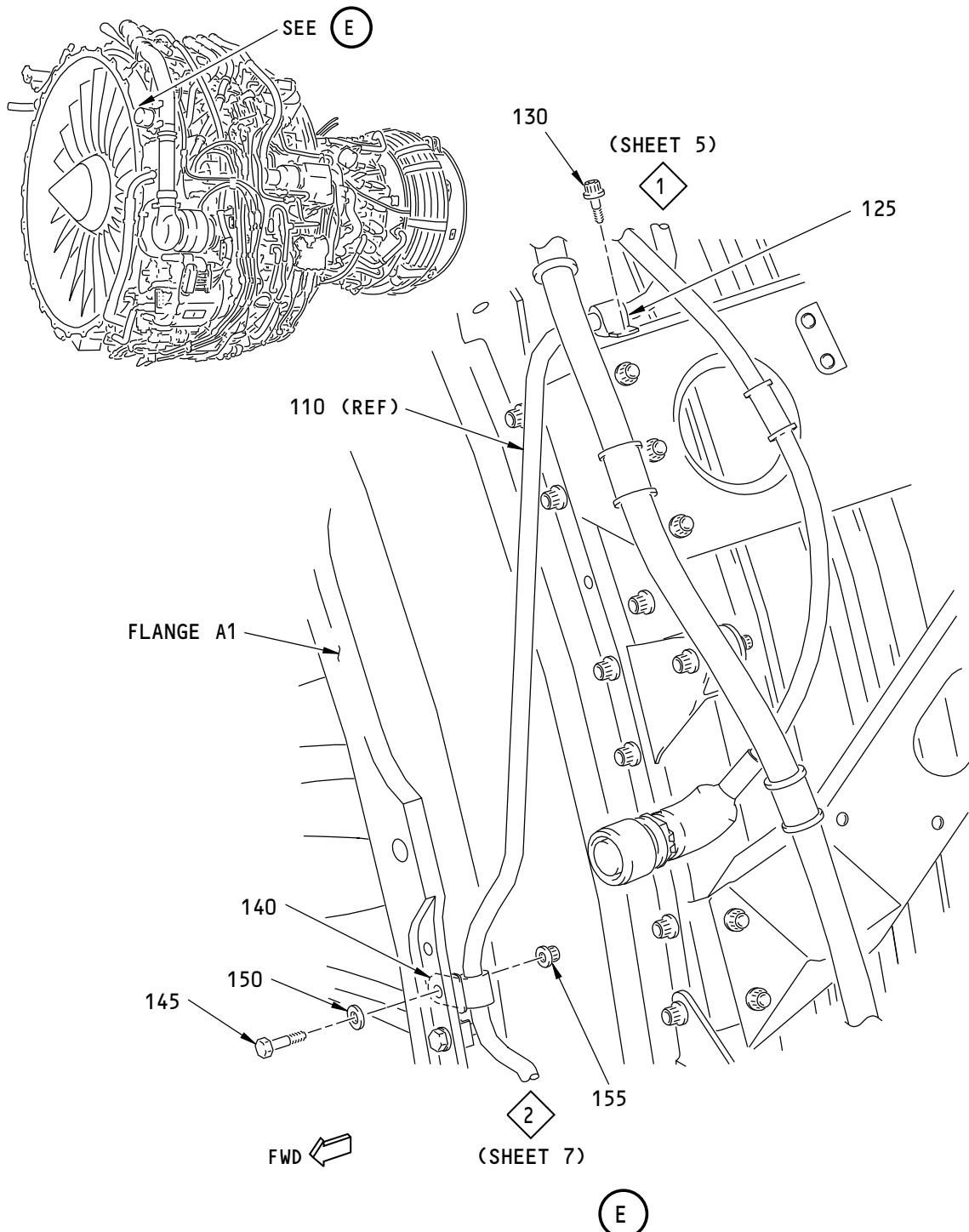
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 21-1     |             | <b>HYDRAULIC PLUMBING INSTALLATION<br/>(FIGURE 21-1, SHEET 5)</b><br><br>LOOSELY CONNECT ELBOW (100) TO UNION (30).<br><br><u>NOTE:</u> ELBOW HAS A FILM OF DRY FILM LUBRICANT AND DOES NOT REQUIRE LUBRICATION.   |    |     |
| 100      | AS4138T0606 | . TUBE ASSY<br><br>POSITION TUBE ASSY (110) ON ENGINE FAN CASE, ALIGNING TOP END OF TUBE ASSY WITH ELBOW (100) AND LOWER END WITH CLAMP LOCATIONS.<br><br>LOOSELY INSTALL TUBE ASSY (110) TO ELBOW (100).<br><br><u>NOTE:</u> DO NOT TIGHTEN TUBE ASSY AND ELBOW AT THIS TIME. | 1  |     |
| 110      | 332A2410-1  | . TUBE ASSY  |    | 1   |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 11

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 21-1

Page 12

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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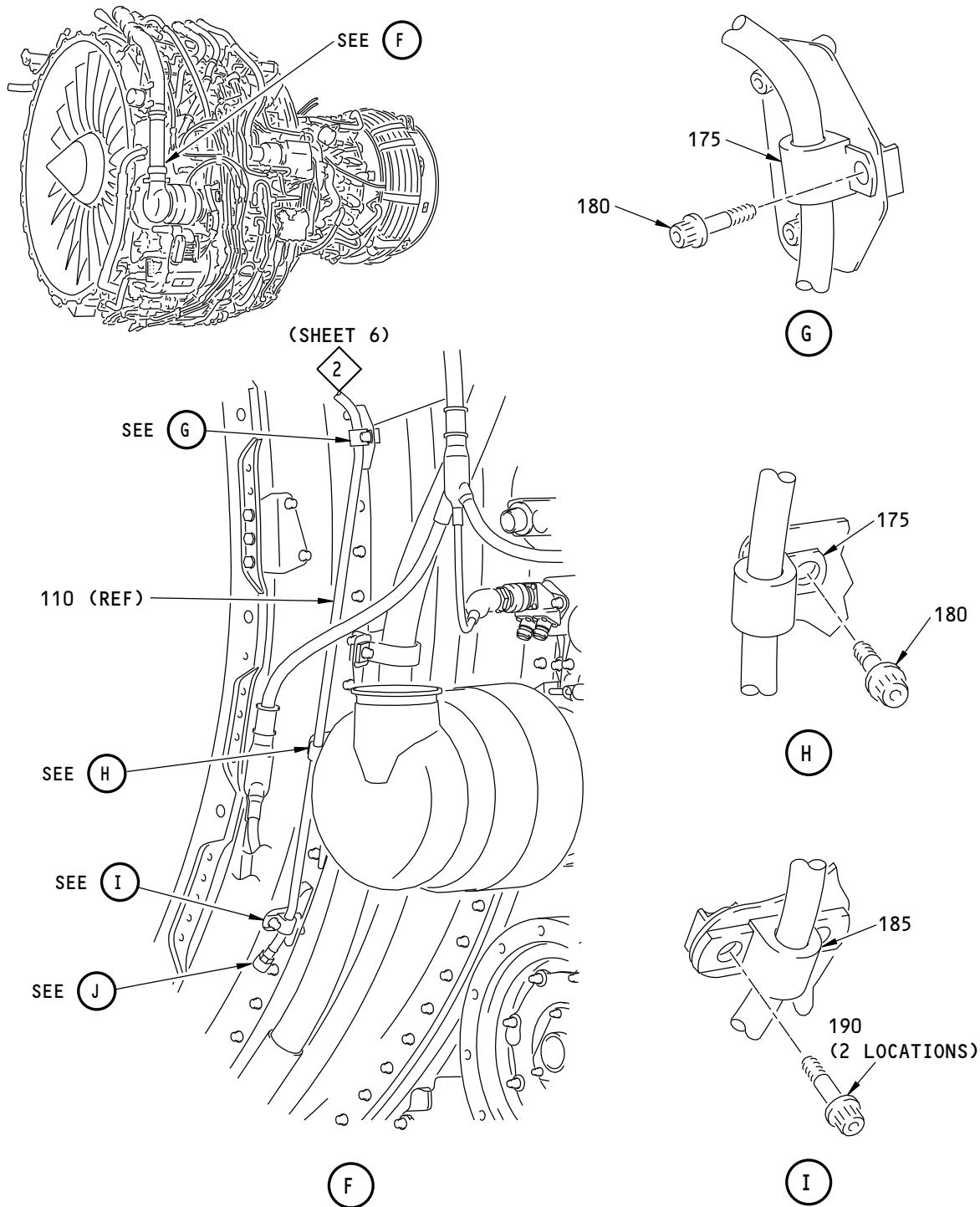
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 21-1     |              | <b>HYDRAULIC PLUMBING INSTALLATION<br/>(FIGURE 21-1, SHEET 6)</b><br><br>ATTACH TUBE ASSY (110) TO TOP SIDE OF ENGINE BRACKET AT 10:30 O'CLOCK POSITION WITH CLAMP (125) AND BOLT (130).<br><br>. CLAMP (V07482)<br>. BOLT  |     |     |
| 125      | J1221G06     |   | VEN | 1   |
| 130      | BACB30ZF4-06 | LOOSELY ATTACH TUBE ASSY (110) TO BRACKET ON FLANGE A1.<br>USE CLAMP (140), BOLT (145), WASHER (150) AND NUT (155).   |     | 1   |
| 140      | J1221G06     | . CLAMP (V07482)  | VEN | 1   |
| 145      | BACB30NM4K6  | . BOLT  |     | 1   |
| 150      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)  |     | 1   |
| 155      | AS3485-10    | . NUT   |     | 1   |
|          |              | ADJUST TUBE ASSY (110) AND ELBOW (100) TO BEST POSITION.<br>MAKE SURE NO PRELOAD FORCE EXISTS ON TUBE ASSY (110).<br>TIGHTEN ELBOW (100) ON UNION (30) TO 257-283 POUND-INCHES (29.0-32.0 NEWTON METERS).<br>BACK OFF UNION TO RELAX TORQUE, THEN RETIGHTEN.<br>TIGHTEN TUBE ASSY (110) AT ELBOW (100) TO 257-283 POUND-INCHES (29.0-32.0 NEWTON METERS).<br>BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN.<br>TIGHTEN BOLT (130) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS) AND TIGHTEN BOLT (145) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS). |     |     |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 21-1

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

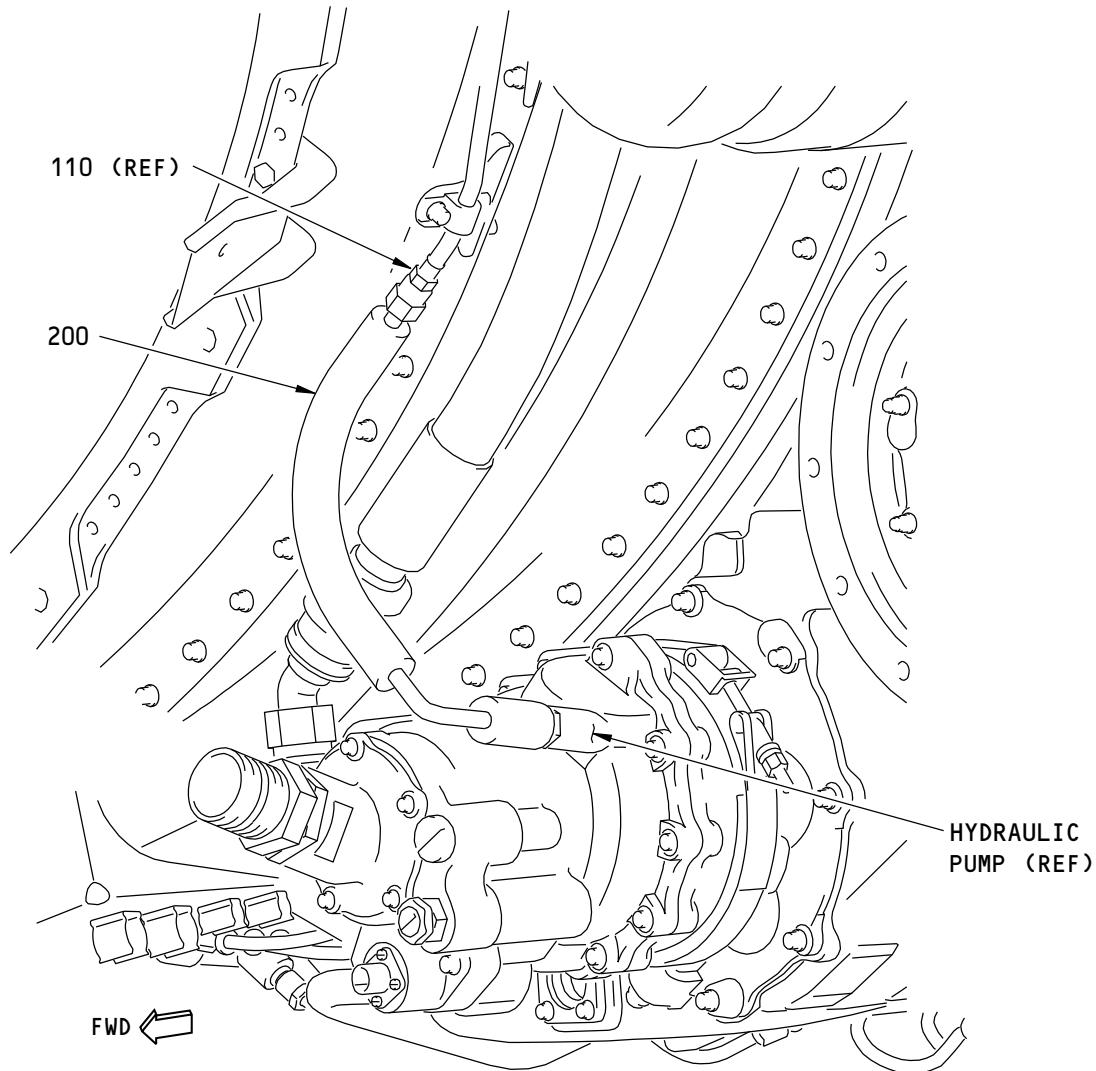
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 21-1     |              | <b>HYDRAULIC PLUMBING INSTALLATION<br/>(FIGURE 21-1, SHEET 7)</b>  |     |     |
| 175      | J1221G06     | ATTACH TUBE ASSY (110) TO ENGINE BRACKETS AT 9 AND 8 O'CLOCK POSITIONS USING CLAMPS (175) AND BOLTS (180). | VEN | 2   |
| 180      | BACB30ZF4-06 | . CLAMP (V07482)<br>. BOLT   |     | 2   |
| 185      | TA0910064-06 | TIGHTEN BOLTS (180) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).                                     | VEN | 1   |
| 190      | BACB30ZF4-08 | ATTACH TUBE ASSY (110) TO ENGINE BRACKET AT 7:30 O'CLOCK POSITION WITH CLAMP (185) AND BOLTS (190).        |     | 2   |
|          |              | . CLAMP (V84971)<br>. BOLT   |     |     |
|          |              | TIGHTEN BOLTS (190) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).                                     |     |     |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 15

Jun 15/2016

D633A106-AKS



F07410 S00041153883\_V1

**Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 8)****71-00-02****P/P BUILDUP FIGURE 21-1**

Page 16

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

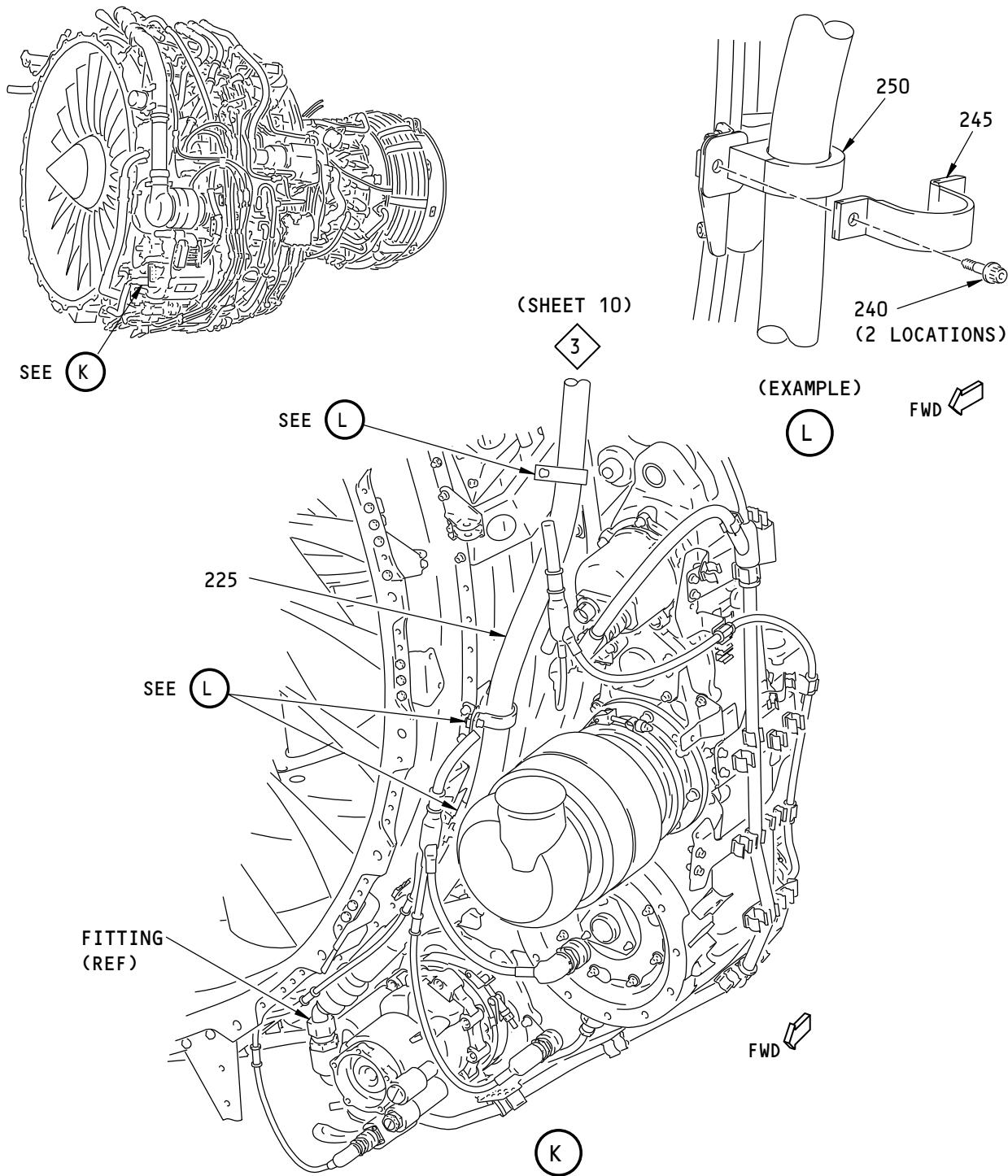
| ITEM NO.    | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|-------------|--------------|--|-----|-----|
| 21-1<br>200 | 155006-06-16 | <p><b>HYDRAULIC PLUMBING INSTALLATION (FIGURE 21-1, SHEET 8)</b></p> <p>LOOSELY CONNECT HYDRAULIC CASE DRAIN HOSE ASSY (200) TO TUBE ASSY (110) AND CASE DRAIN PORT OF HYDRAULIC PUMP.</p> <p>. HOSE ASSY, HYDRAULIC CASE DRAIN (V11362) (SPEC S332A210-16)</p> <p><b>CAUTION:</b> USE TWO WRENCHES WHEN YOU LOOSEN OR TIGHTEN THE CONNECTION. ONE WRENCH WILL HOLD ONE SIDE OF THE CONNECTION IN ITS POSITION. ONE WRENCH WILL TURN THE OTHER SIDE OF THE CONNECTION. IF YOU DO NOT OBEY THIS TWO-WRENCH PROCEDURE, YOU CAN CAUSE DAMAGE TO THE CONNECTION COMPONENTS.</p> <p>TIGHTEN HOSE ASSY (200) AT UNION ON HYDRAULIC PUMP AND AT TUBE ASSY (110) TO 257-283 POUND-INCHES (29.0-32.0 NEWTON METERS).</p> <p>BACK OFF TUBE NUT TO RELAX TORQUE, THEN RETIGHTEN. MAKE SURE HOSE DOES NOT TWIST OR KINK WHEN TIGHTENING.</p> <p>MAKE SURE NO PRELOAD FORCE IS PRESENT ON HOSE ASSY (200) AND TUBE ASSY (110).</p> <p>MAKE SURE THERE IS MINIMUM OF 0.5 INCH (12.7 MILLIMETERS) CLEARANCE WITH ADJACENT HARDWARE.</p> <p>IF NECESSARY, LOOSEN CLAMPS AND ADJUST AS REQUIRED. TIGHTEN ALL BOLTS.</p> | VEN | 1   |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 17

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F07207 S00041153886\_V1

Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 21-1

Page 18

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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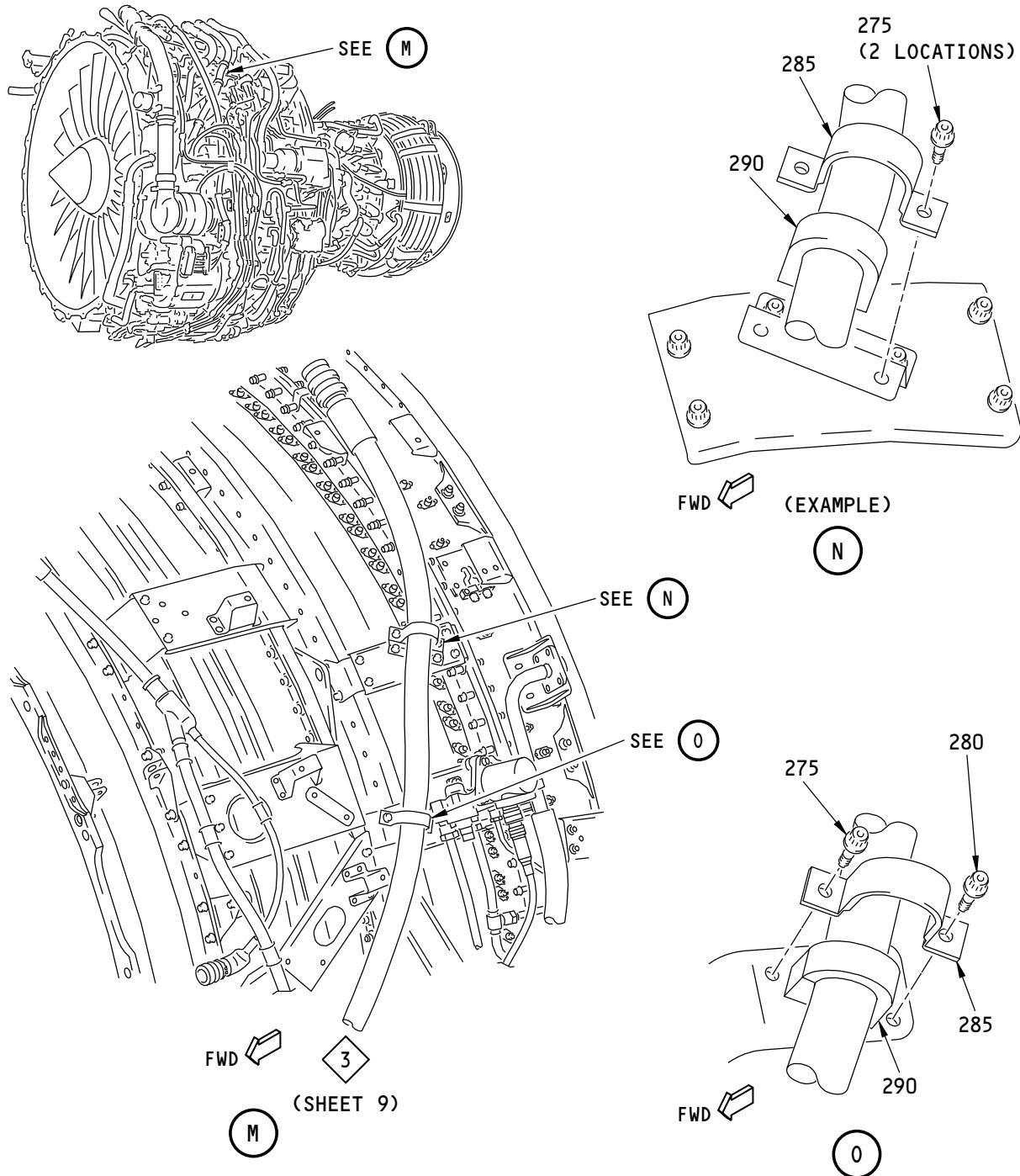
| ITEM NO. | PART NUMBER    | NOMENCLATURE   | UC  | QTY |
|----------|----------------|--|-----|-----|
| 21-1     |                | <b>HYDRAULIC PLUMBING INSTALLATION</b><br><b>(FIGURE 21-1, SHEET 9)</b><br><br>CONNECT HYDRAULIC PRESSURE HOSE ASSY (225) TO FITTING ON HYDRAULIC PUMP.<br><br>TIGHTEN HOSE ASSY (225) UNTIL FITTING LOCKS.<br><br><b>NOTE:</b> ENDS OF HOSE ASSY ARE IDENTICAL. THEREFORE, HOSE ASSY IS END-TO-END INTERCHANGEABLE.   |     |     |
| 225      | 155012-12-2014 | . HOSE ASSY, HYDRAULIC PRESSURE (V11362) (SPEC S332A210-21)  | VEN | 1   |
| 225      | 155012-12-21   | . HOSE ASSY, HYDRAULIC PRESSURE (V11362) (SPEC S332A210-21) (REPLACED BY 155012-12-2014)<br><br><u>OPTIONAL STEP:</u><br>COAT ID OF CLAMP BLOCK (250) WITH grease, D00173 (C2) TO FACILITATE POSITIONING OF BLOCK UPON INSTALLATION.<br>AT THREE LOCATIONS ON ENGINE FAN CASE, LOOSELY ATTACH HOSE ASSY (225) TO ENGINE BRACKETS.<br>USE BOLTS (240), CLAMP BLOCK STRAPS (245) AND CLAMP BLOCKS (250).<br>USE BOLT (241) AND NUT (242) AT FWD HOLE OF LOWER BRACKET IF BRACKET DOES NOT HAVE NUTPLATE. | LTD | -   |
| 240      | BACB30ZF4-08   | . BOLT   |     | 5   |
| 241      | BACB30ZF4-10   | . BOLT (NOT ILLUSTRATED)   |     | 1   |
| 242      | AS3485-10      | . NUT (NOT ILLUSTRATED)  |     | 1   |
| 245      | 332W3130-18    | . CLAMP BLOCK STRAP  |     | 3   |
| 250      | 332W5101-10    | . CLAMP BLOCK  |     | 3   |
| C2       | D00173         | . GREASE   | CON | AR  |
|          |                | ADJUST HOSE ASSY (225) TO BEST POSITION AND TIGHTEN BOLTS (240) AND BOLT (241) TO 97-103 POUND-INCHES (11.0-11.6 NEWTON METERS). TIGHTEN NUT (242) TO 82-88 POUND-INCHES (9.26-9.94 NEWTON METERS).  |     |     |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 19

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

1743428 S0000315636\_V3

Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 10)

**71-00-02**  
**P/P BUILDUP FIGURE 21-1**  
 Page 20  
 Jun 15/2016

D633A106-AKS

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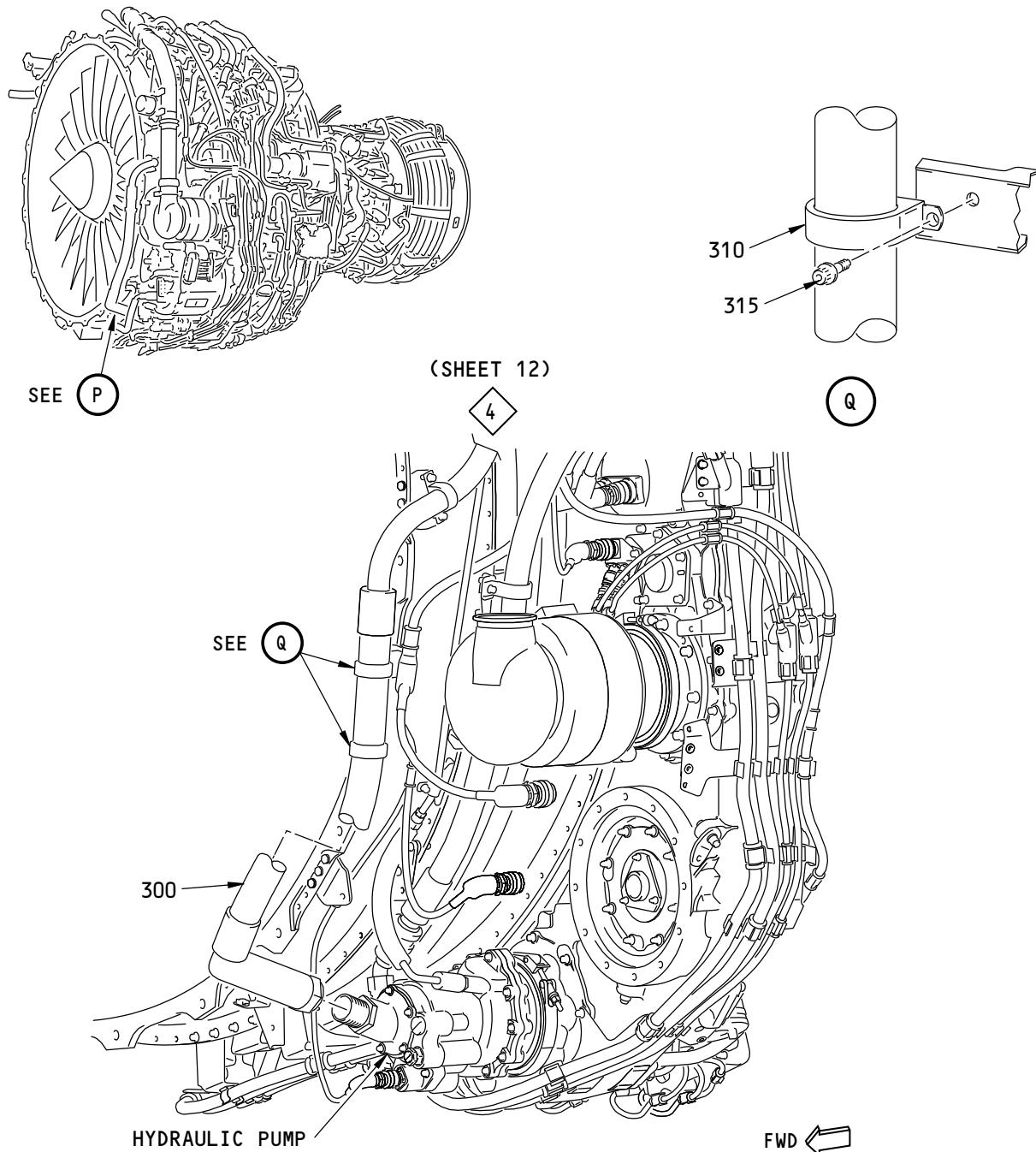
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 21-1     |              | <b>HYDRAULIC PLUMBING INSTALLATION</b><br><b>(FIGURE 21-1, SHEET 10)</b><br><u>OPTIONAL STEP:</u><br>COAT ID OF CLAMP BLOCK (290) WITH grease, D00173 (C2) TO<br>FACILITATE POSITIONING OF BLOCK UPON INSTALLATION.<br>AT TWO LOCATIONS ON ENGINE FAN CASE, LOOSELY ATTACH<br>HOSE ASSY (225) TO ENGINE BRACKETS.<br>USE BOLTS (275) AND (280), CLAMP BLOCK STRAP (285) AND<br>CLAMP BLOCK (290) AT LOWER LOCATION AND BOLTS (275),<br>CLAMP BLOCK STRAP (285) AND CLAMP BLOCK (290) AT UPPER<br>HOLE.<br>. BOLT<br>. BOLT<br>. CLAMP BLOCK STRAP<br>. CLAMP BLOCK<br>. GREASE<br>ADJUST HOSE ASSY (225) TO BEST POSITION.<br>MAKE SURE PROTECTIVE CAP IS INSTALLED ON OPEN END OF<br>HOSE ASSY (225).<br>TIGHTEN BOLTS (275) AND (280) TO 78-82 POUND-INCHES (8.81-<br>9.26 NEWTON METERS). |     |     |
| 275      | BACB30ZF4-08 | . BOLT   |     | 3   |
| 280      | BACB30ZF4-10 | . BOLT   |     | 1   |
| 285      | 332W3130-18  | . CLAMP BLOCK STRAP  |     | 2   |
| 290      | 332W5101-10  | . CLAMP BLOCK  |     | 2   |
| C2       | D00173       | . GREASE   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 21

Jun 15/2016

D633A106-AKS



## PREFERRED CLAMP CONFIGURATION

P

2428665 S0000561774\_V1

Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 21-1

Page 22

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

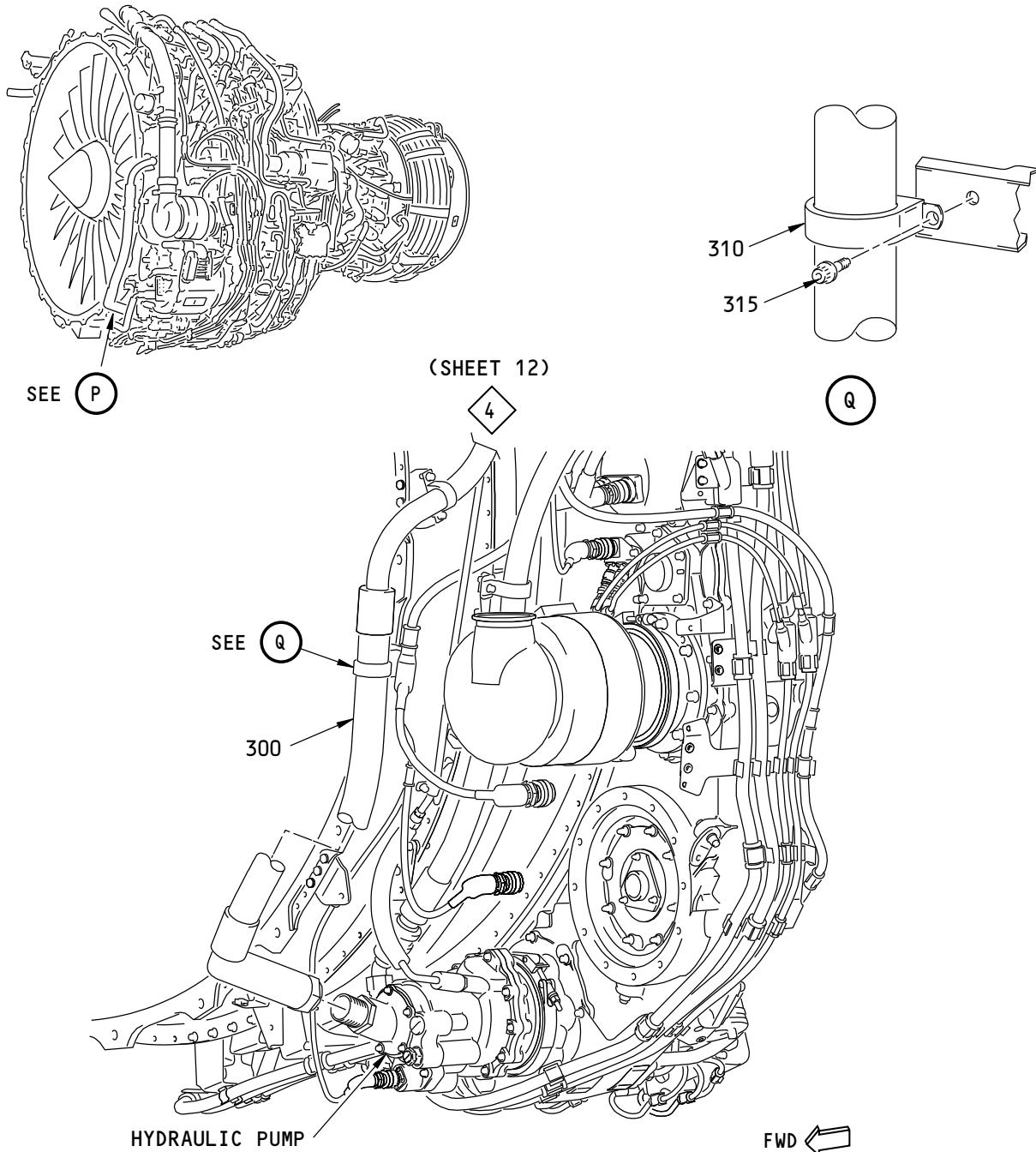
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 21-1     |              | <p><b>HYDRAULIC PLUMBING INSTALLATION (FIGURE 21-1, SHEET 11)</b></p> <p><b>PREFERRED CLAMP CONFIGURATION</b></p> <p><b>CAUTION:</b> USE TWO WRENCHES WHEN YOU LOOSEN OR TIGHTEN THE CONNECTION. ONE WRENCH WILL HOLD ONE SIDE OF THE CONNECTION IN ITS POSITION. ONE WRENCH WILL TURN THE OTHER SIDE OF THE CONNECTION. IF YOU DO NOT OBEY THIS TWO-WRENCH PROCEDURE, YOU CAN CAUSE DAMAGE TO THE CONNECTION COMPONENTS.</p> <p>MAKE SURE INTERNAL O-RING (301) IS INSTALLED ON HOSE ASSY (300) COUPLING.</p> <p>IF O-RING IS MISSING, INSTALL NEW O-RING (301).</p> <p><b>NOTE:</b> O-RING (301) NOT INCLUDED IN QEC KIT.</p> <p>CONNECT HOSE ASSY (300) TO SUPPLY PORT OF HYDRAULIC PUMP.</p> <p>TIGHTEN HOSE ASSY (300) TO 1520-1680 POUND-INCHES (127-140 POUND-FEET) (172-190 NEWTON METERS).</p> <p><b>NOTE:</b> MAKE SURE HOSE ASSY DOES NOT KINK OR TWIST DURING TIGHTENING.</p> |     |     |
| 300      | 155016-20-11 | . HOSE ASSY, HYDRAULIC SUPPLY (V11362) (SPEC S332A210-11)   | VEN | 1   |
| 301      | NAS1611-024A | . . O-RING (1 REQD)*[3]   | REF | -   |
|          |              | LOOSELY ATTACH HOSE ASSY (300) TO ENGINE BRACKETS FORWARD OF FLANGE A1 WITH CLAMPS (310) AND BOLTS (315).   |     |     |
|          |              | <b>NOTE:</b> DO NOT TIGHTEN BOLT (315) AT THIS TIME.  |     |     |
| 310      | J1221G28     | . CLAMP (V07482)  | VEN | 2   |
| 315      | BACB30ZF4-08 | . BOLT  |     | 2   |
|          |              | *[3] ITEM NOT ILLUSTRATED   |     |     |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 23

Jun 15/2016

D633A106-AKS



## ORIGINAL CLAMP CONFIGURATION

P

G11149 S00041153890\_V2

Hydraulic Plumbing Installation  
Figure 21-1 (Sheet 12)

71-00-02

P/P BUILDUP FIGURE 21-1

Page 24

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 21-1     |              | <p><b>HYDRAULIC PLUMBING INSTALLATION (FIGURE 21-1, SHEET 12)</b></p> <p><b>ORIGINAL CLAMP CONFIGURATION</b></p> <p><b>CAUTION:</b> USE TWO WRENCHES WHEN YOU LOOSEN OR TIGHTEN THE CONNECTION. ONE WRENCH WILL HOLD ONE SIDE OF THE CONNECTION IN ITS POSITION. ONE WRENCH WILL TURN THE OTHER SIDE OF THE CONNECTION. IF YOU DO NOT OBEY THIS TWO-WRENCH PROCEDURE, YOU CAN CAUSE DAMAGE TO THE CONNECTION COMPONENTS.</p> <p>MAKE SURE INTERNAL O-RING (301) IS INSTALLED ON HOSE ASSY (300) COUPLING.</p> <p>IF O-RING IS MISSING, INSTALL NEW O-RING (301).</p> <p><b>NOTE:</b> O-RING (301) NOT INCLUDED IN QEC KIT.</p> <p>CONNECT HOSE ASSY (300) TO SUPPLY PORT OF HYDRAULIC PUMP.</p> <p>TIGHTEN HOSE ASSY (300) TO 1520-1680 POUND-INCHES (127-140 POUND-FEET) (172-190 NEWTON METERS).</p> <p><b>NOTE:</b> MAKE SURE HOSE ASSY DOES NOT KINK OR TWIST DURING TIGHTENING.</p> |     |     |
| 300      | 155016-20-11 | . HOSE ASSY, HYDRAULIC SUPPLY (1 REQD) (V11362) (SPEC S332A210-11)   | LTD | -   |
| 301      | NAS1611-024A | . . O-RING (1 REQD)* <sup>[3]</sup><br>LOOSELY ATTACH HOSE ASSY (300) TO ENGINE BRACKET FORWARD OF FLANGE A1 WITH CLAMP (310) AND BOLT (315).  | REF | -   |
| 310      | J1221G28     | <b>NOTE:</b> DO NOT TIGHTEN BOLT (315) AT THIS TIME.   | LTD | -   |
| 315      | BACB30ZF4-08 | . CLAMP (1 REQD) (V07482)<br>. BOLT (1 REQD)   | LTD | -   |

\*[3] ITEM NOT ILLUSTRATED

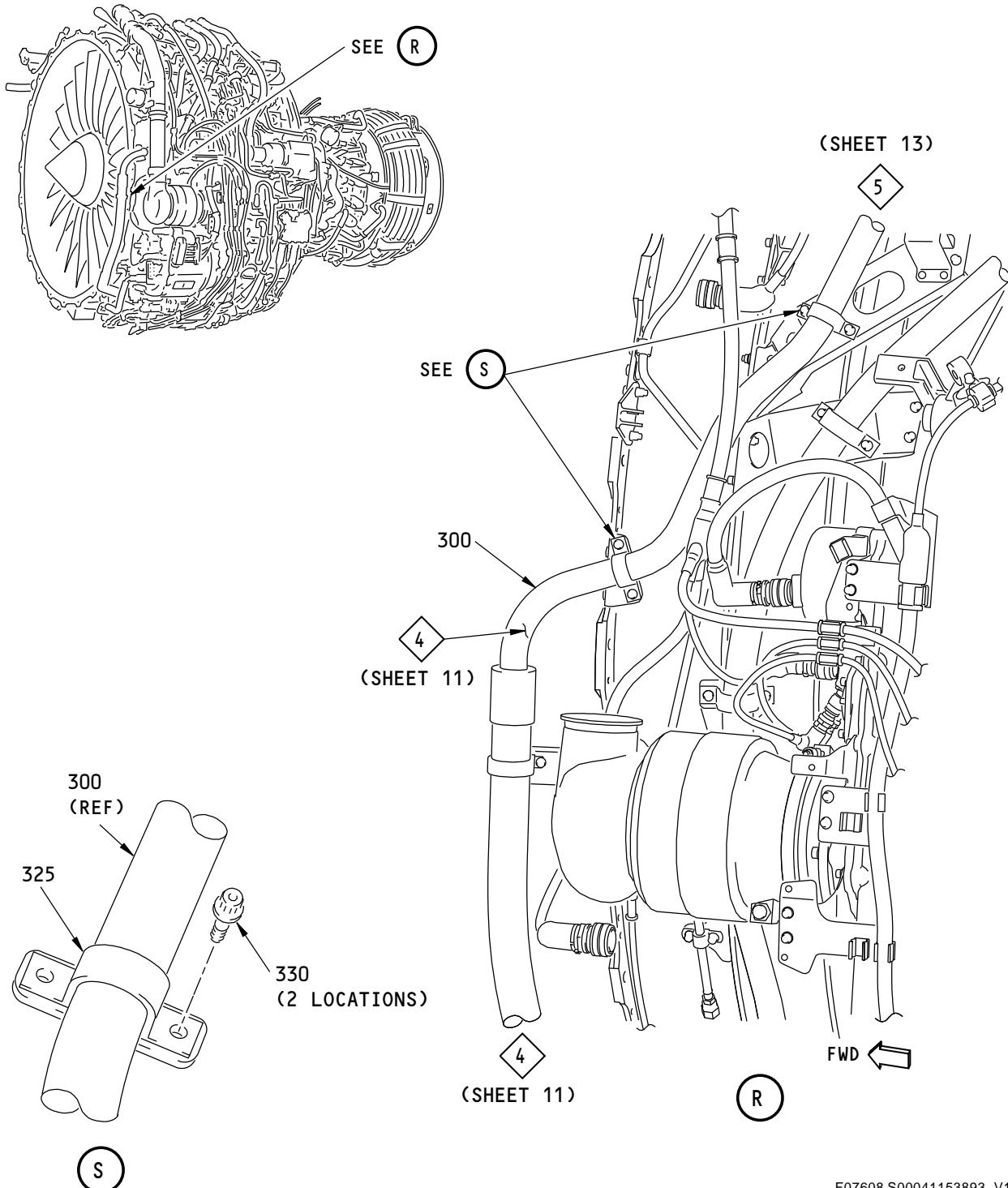
**71-00-02**

**P/P BUILDUP FIGURE 21-1**

Page 25

Jun 15/2016

D633A106-AKS



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**Hydraulic Plumbing Installation**  
**Figure 21-1 (Sheet 13)**

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 26

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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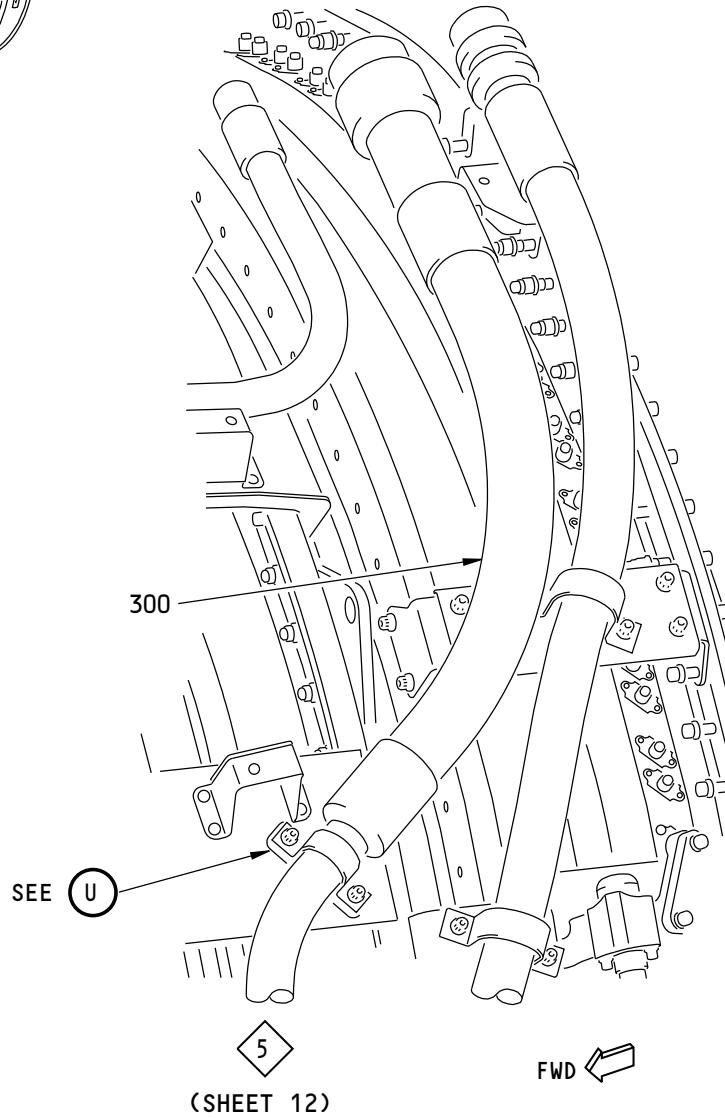
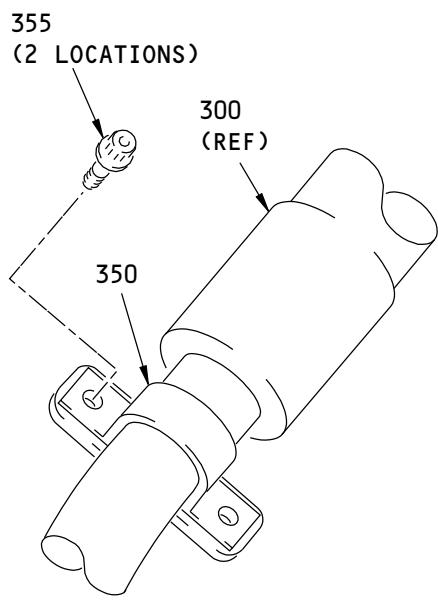
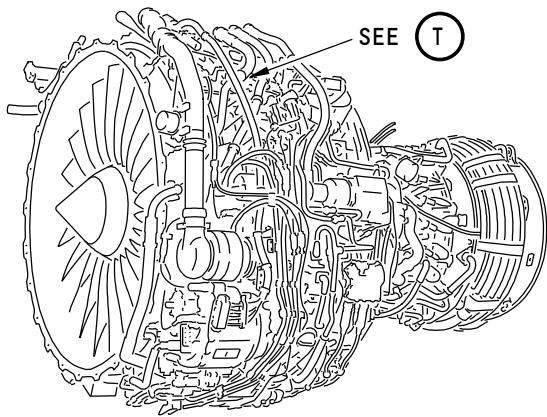
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 21-1     |              | <b>HYDRAULIC PLUMBING INSTALLATION</b><br><b>(FIGURE 21-1, SHEET 13)</b><br><br>CONNECT HOSE ASSY (300) TO ENGINE BRACKETS AT 10:00 AND 9:00 O'CLOCK POSITIONS WITH CLAMPS (325) AND BOLTS (330).<br><b>NOTE:</b> DO NOT TIGHTEN BOLTS (330) AT THIS TIME.<br><br>. CLAMP (V84971)<br>. BOLT |     |     |
| 325      | TA0910083    |  | VEN | 2   |
| 330      | BACB30ZF4-08 |  |     | 4   |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 27

Jun 15/2016

D633A106-AKS



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**Hydraulic Plumbing Installation**  
**Figure 21-1 (Sheet 14)**

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 28

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 21-1     |              | <b>HYDRAULIC PLUMBING INSTALLATION<br/>(FIGURE 21-1, SHEET 14)</b>  |     |     |
| 350      | TA0910083    | LOOSELY ATTACH HOSE ASSY (300) TO BRACKET AT 10:30 O'CLOCK POSITION WITH CLAMP (350) AND BOLTS (355).   | VEN | 1   |
| 355      | BACB30ZF4-12 | <ul style="list-style-type: none"> <li>. CLAMP (V84971)</li> <li>. BOLT</li> </ul> <p>ADJUST HOSE ASSY (300) TO BEST POSITION.</p> <p>MAKE SURE THERE IS MINIMUM OF 0.5 INCH (12.7 MILLIMETERS) CLEARANCE WITH ADJACENT HARDWARE.</p> <p>TIGHTEN BOLTS (315), (330) AND (355) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).</p> <p>MAKE SURE PROTECTIVE CAP IS INSTALLED ON OPEN END OF HOSE ASSY (300).</p> |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 21-1**

Page 29

Jun 15/2016

D633A106-AKS

**FIGURE 22-1**

**INTEGRATED DRIVE GENERATOR INSTALLATION**

**REF QEC TASK NO.: 22**

**REF DWG: 332A2600**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

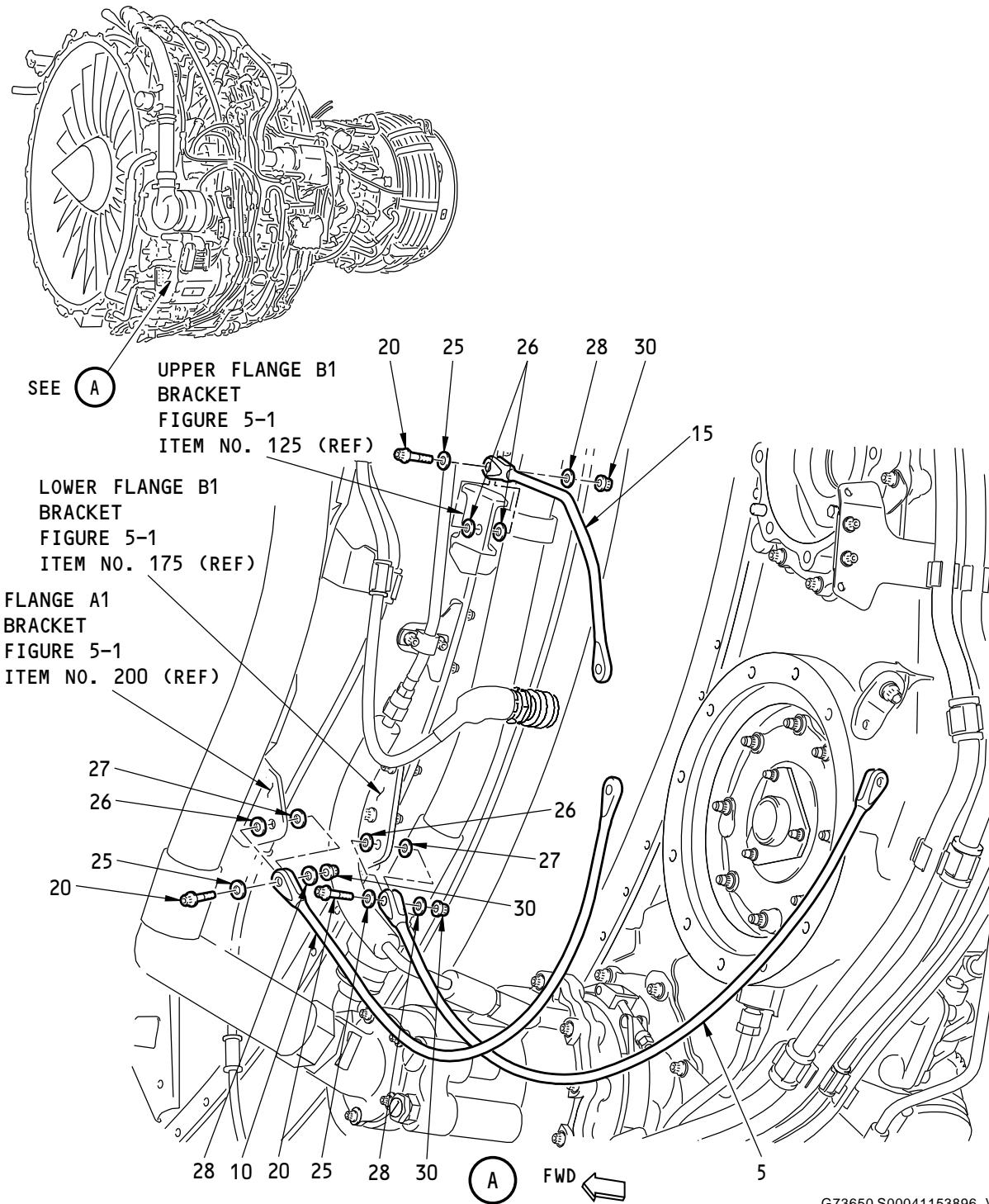
**P/P BUILDUP FIGURE 22-1**

Page 1

Jun 15/2016

D633A106-AKS

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Integrated Drive Generator Installation  
Figure 22-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 22-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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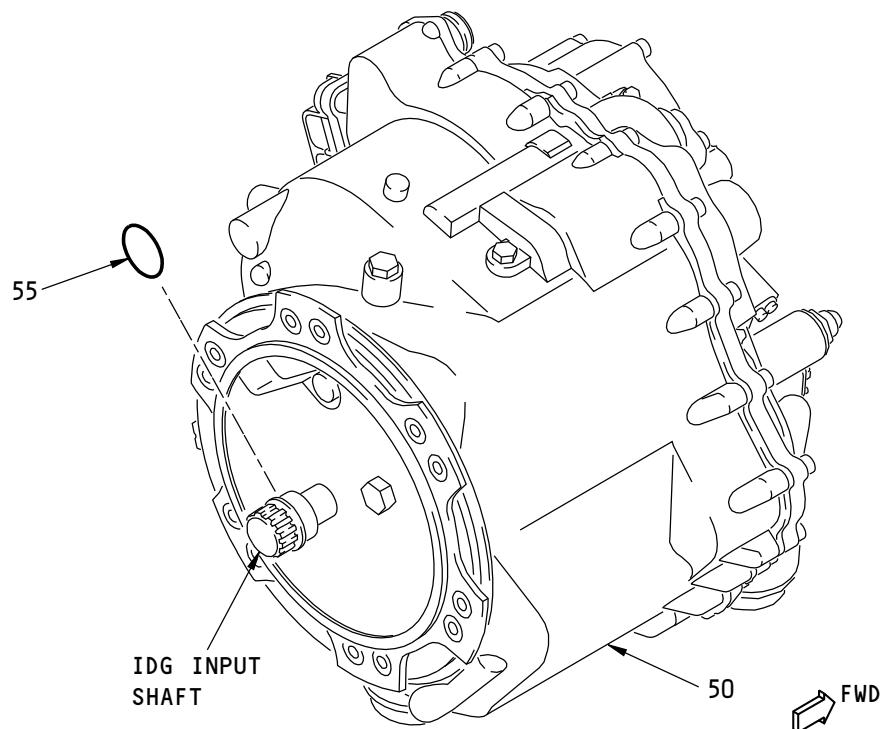
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 22-1     |               | <b>INTEGRATED DRIVE GENERATOR INSTALLATION<br/>(FIGURE 22-1, SHEET 1)</b><br>LOOSELY ATTACH LANYARD ASSY (5) TO LOWER FLANGE B1 BRACKET BRACKET INSTALLATION - LOWER LEFT FAN CASE/ Figure 5-1 ITEM NO. 175) USING BOLT (20), WASHERS (25 THRU 27) AND NUT (30).<br>LOOSELY ATTACH LANYARD ASSY (10) TO FLANGE A1 BRACKET BRACKET INSTALLATION - LOWER LEFT FAN CASE/Figure 5-1 ITEM NO. 200) USING BOLT (20), WASHERS (25 THRU 27) AND NUT (30).<br>LOOSELY ATTACH LANYARD ASSY (15) TO UPPER FLANGE B1 BRACKET (REF BRACKET INSTALLATION - LOWER LEFT FAN CASE/Figure 5-1 ITEM NO. 125) USING BOLT (20), WASHERS (25 THRU 28) AND NUT (30). |     |     |
| 5        | 332A2600-4    | . LANYARD ASSY  |     | 1   |
| 10       | 332A2600-5    | . LANYARD ASSY  |     | 1   |
| 15       | 332A2600-6    | . LANYARD ASSY  |     | 1   |
| 20       | BACB30LE5K8   | . BOLT  |     | 3   |
| 25       | BACW10BP5ACU  | . WASHER (CSK) (UNDER BOLT HEAD)  |     | 3   |
| 25       | BACW10BP5CD   | . WASHER (CSK) (OPTIONAL TO BACW10BP5ACU)   | OPT | -   |
| 26       | NAS1149E0532P | . WASHER (BETWEEN LANYARD CLEVIS AND ENGINE BRKT) (BOLT SIDE)   |     | 4   |
| 27       | NAS1149E0516P | . WASHER (BETWEEN LANYARD CLEVIS AND ENGINE BRKT) (NUT SIDE)  |     | 2   |
| 28       | NAS1149E0563R | . WASHER (UNDER NUT)  |     | 3   |
| 30       | AS3485-11     | . NUT   |     | 3   |
| 30       | BACN10HR5CS   | . NUT (OPTIONAL TO AS3485-11)   | OPT | -   |
|          |               | POSITION LANYARD ASSYS (5), (10) AND (15) AS SHOWN AND TIGHTEN BOLTS (20) TO 100-150 POUND-INCHES (11.3-17.0 NEWTON METERS).  |     |     |

**71-00-02****P/P BUILDUP FIGURE 22-1**

Page 3

Jun 15/2016

D633A106-AKS



INTEGRATED DRIVE GENERATOR

F14927 S00041153897\_V2

Integrated Drive Generator Installation  
Figure 22-1 (Sheet 2)

**71-00-02****P/P BUILDUP FIGURE 22-1**

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

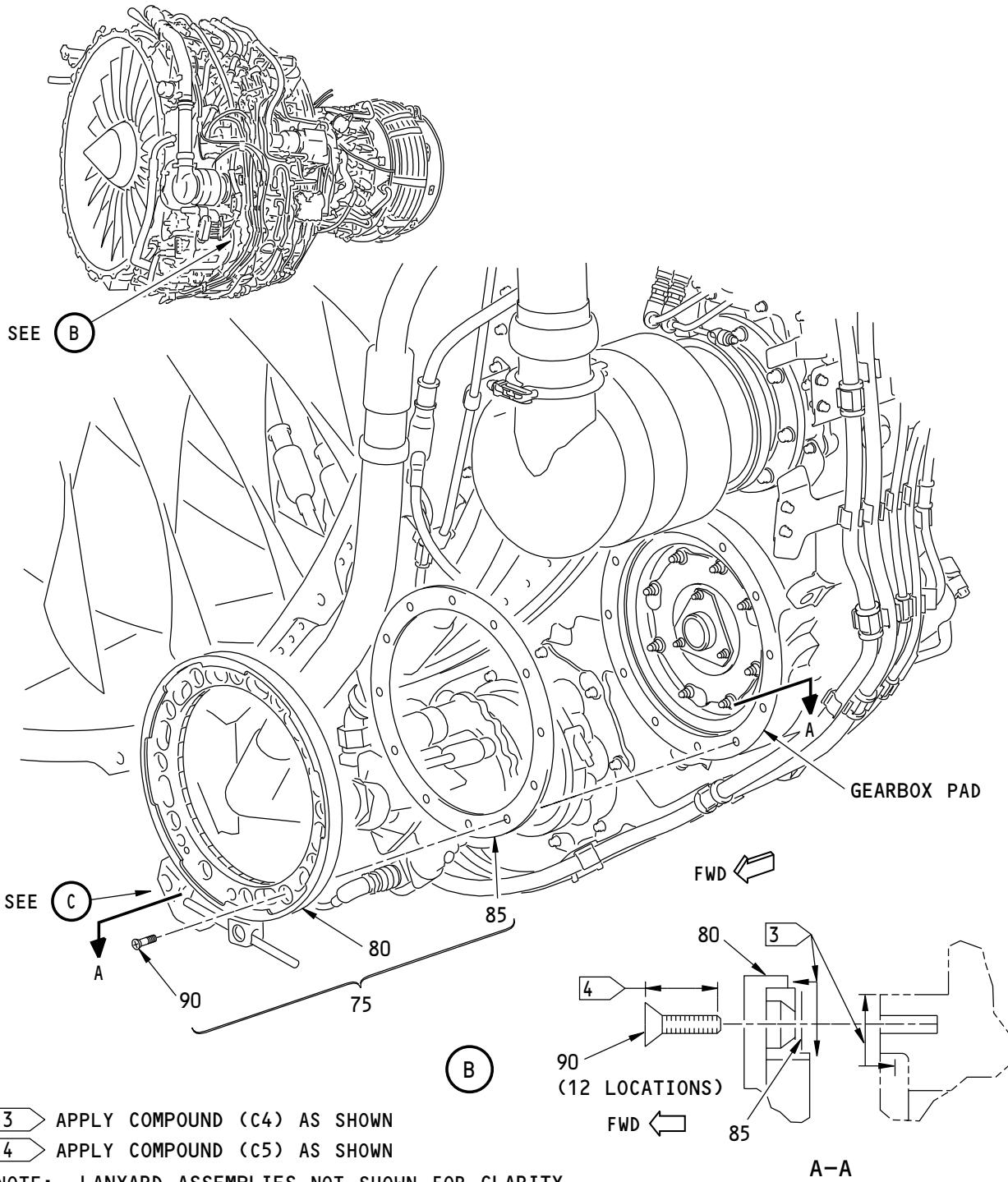
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 22-1     |              | <b>INTEGRATED DRIVE GENERATOR INSTALLATION<br/>(FIGURE 22-1, SHEET 2)</b>  |     |     |
| 50       | 761574B      | REMOVE BOLT FROM 12 O'CLOCK POSITION ON IDG (50) AND<br>INSTALL LIFTING BOLT OR EQUIVALENT.  | VEN | 1   |
| 50       | 761574       | . IDG (V99167) (SPEC S281A001-101)<br>. IDG (V99167) (SPEC S281A001-101) (OPTIONAL TO 761574B)   | OPT | -   |
|          |              | LUBRICATE O-RING (55) WITH Syn-Tech NS-6074 lubricant, D00648<br>(C1) OR oil, D00071 (C2) OR oil, D00068 (C3) AND INSTALL ON<br>INPUT SHAFT OF IDG (50). |     |     |
| 55       | AS3209-216   | . . O-RING (SUPPLIED WITH IDG)   | REF | -   |
| 55       | M83248-1-216 | . . O-RING (SUPPLIED WITH IDG) (OPTIONAL TO AS3209-216)  | OPT | -   |
| C1       | D00648       | . SYN-TECH NS-6074 LUBRICANT (SUPPLIED WITH IDG)   | CON | AR  |
| C2       | D00071       | . OIL (OPTIONAL)   | CON | AR  |
| C3       | D00068       | . OIL (OPTIONAL)   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 22-1**

Page 5

Jun 15/2016

D633A106-AKS



Integrated Drive Generator Installation  
Figure 22-1 (Sheet 3)

**71-00-02**

P/P BUILDUP FIGURE 22-1

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

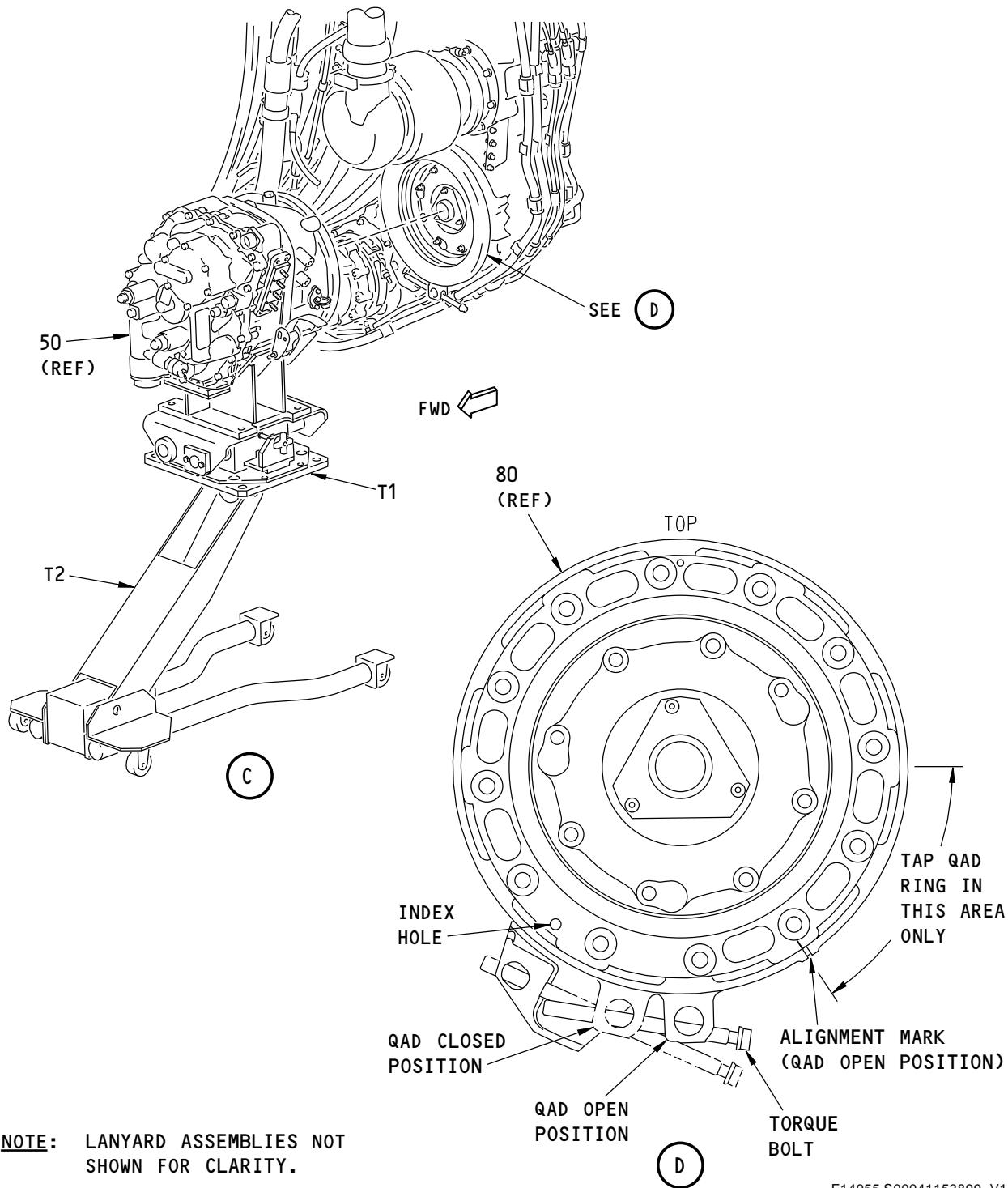
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 22-1     |             | <b>INTEGRATED DRIVE GENERATOR INSTALLATION<br/>(FIGURE 22-1, SHEET 3)</b><br><u>CAUTION:</u> KEEP GREASE OUT OF DOWEL PIN AND BOLT HOLES. GREASE IN HOLES CAN CAUSE DAMAGE TO GEARBOX DUE TO PRESSURE BUILD-UP WHEN SCREWS ARE INSTALLED. USE CARE TO KEEP FOREIGN MATERIAL OUT OF IDG.<br><br>APPLY A THIN COATING OF silicone compound, D00254 (C4) TO QAD RING FLANGE (80) AND GEARBOX PAD.<br>APPLY A THIN COATING OF Never-Seez NSBT compound, D00006 (C5) TO THE CONICAL SURFACE OF HEAD AND THREADS OF SCREWS (90). |     |     |
| C4       | D00254      | . SILICONE COMPOUND  | CON | AR  |
| C5       | D00006      | . NEVER-SEEZ NSBT-8N COMPOUND  | CON | AR  |
|          |             | ENSURE GASKET (85) IS IN POSITION ON AFT SIDE OF QAD RING (80).<br><br>POSITION QAD RING (80) ON GEARBOX ALIGNING -TOP- MARKING ON QAD RING WITH -TOP- MARKING ON GEARBOX.<br>INSTALL WITH SCREWS (90) AND TIGHTEN TO 275-300 POUND-INCHES (31.1-33.9 NEWTON METERS).  |     |     |
| 75       | 762246      | . QAD ADAPTER KIT (V99167) (SPEC S281A001-501)   | VEN | 1   |
| 80       | 762075      | . . QAD RING (V99167) (1 SUPPLIED WITH QAD KIT (75))   | REF | -   |
| 85       | 731476      | . . GASKET (V99167) (1 SUPPLIED WITH QAD KIT (75))   | REF | -   |
| 90       | 0646C624-18 | . . SCREW (V99167) (12 SUPPLIED WITH QAD KIT (75))   | REF | -   |

**71-00-02****P/P BUILDUP FIGURE 22-1**

Page 7

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUALIntegrated Drive Generator Installation  
Figure 22-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 22-1

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

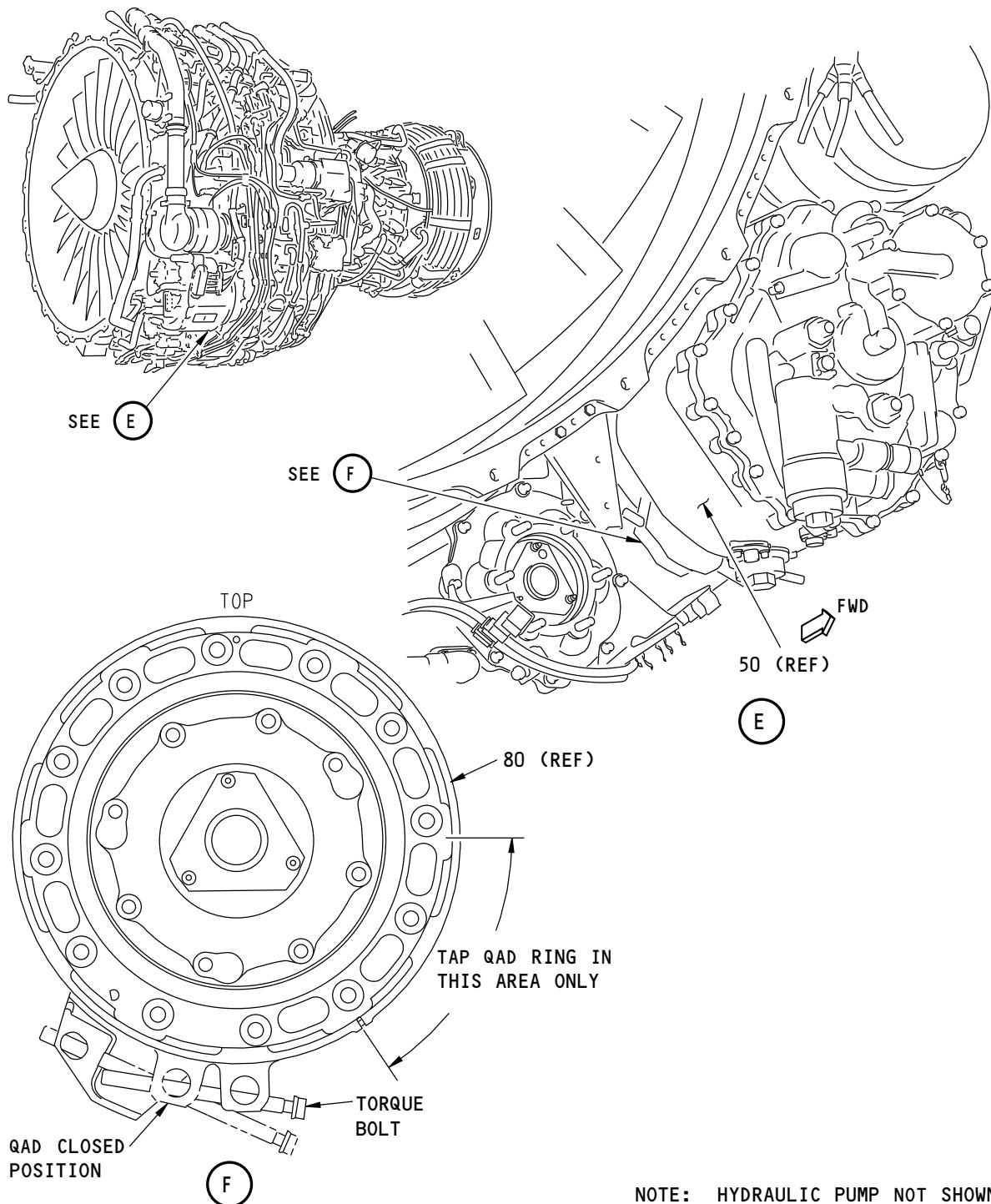
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 22-1     |             | <b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 22-1, SHEET 4)</b><br><br><b>CAUTION:</b> DO NOT USE IDG DRIVE SHAFT FOR A HANDLE DURING INSTALLATION. USE PILOT FLANGE AREA FOR A HAND HOLD. SIDE LOADS ON DRIVE SHAFT CAN DAMAGE IDG CARBON SEALS.<br><br>MAKE SURE VSCF and IDG jack adapter, SPL-1634 (T1) IS INSTALLED ON low profile hydraulic jack, COM-1443 (T2).<br>SECURE IDG (50) TO JACK ADAPTER WITH STRAP.<br><ul style="list-style-type: none"> <li>. ADAPTER, SPL-1634</li> <li>. LOW PROFILE HYDRAULIC JACK, COM-1443 (OR EQUIVALENT)</li> </ul> REMOVE LIFTING BOLT AND REINSTALL SUPPLIED FASTENER.<br>TIGHTEN FASTENER TO 100-120 POUND-INCHES (11.3-13.6 NEWTON METERS).<br><br><b>CAUTION:</b> DO NOT ALLOW IDG TO HANG ON DRIVE SHAFT DURING INSTALLATION. FAILURE TO PROPERLY SUPPORT IDG MAY RESULT IN DAMAGE TO DRIVE SHAFT AND CARBON SEALS.<br><br>POSITION IDG (50) AT GEARBOX PAD.<br>ADJUST TORQUE BOLT ON QAD UNTIL OUTER RING OF QAD ROTATES TO THE OPEN POSITION.<br>ALIGN INDEX MARKS ON QAD RING (80) AND IDG (50).<br>MAKE SURE LUGS ON IDG FLANGE CAN ENTER THE QAD RING OPENINGS.<br>ENGAGE DRIVE SHAFT SPLINE FIRST, THEN INDEX PIN.<br>MAKE SURE INDEX PIN ON IDG ENGAGES INDEX HOLE ON QAD.<br>SUPPORT AFT END OF IDG FOR 360-DEGREE CONTACT BETWEEN MATING SURFACES OF QAD RING AND IDG.<br>ADJUST TORQUE BOLT UNTIL QAD RING ROTATES TO THE LOCKED POSITION. |     |     |
| T1       | C24002      |   | TOL | -   |
| T2       | HW93718     |   | TOL | -   |

**71-00-02****P/P BUILDUP FIGURE 22-1**

Page 9

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Integrated Drive Generator Installation  
Figure 22-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 22-1

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

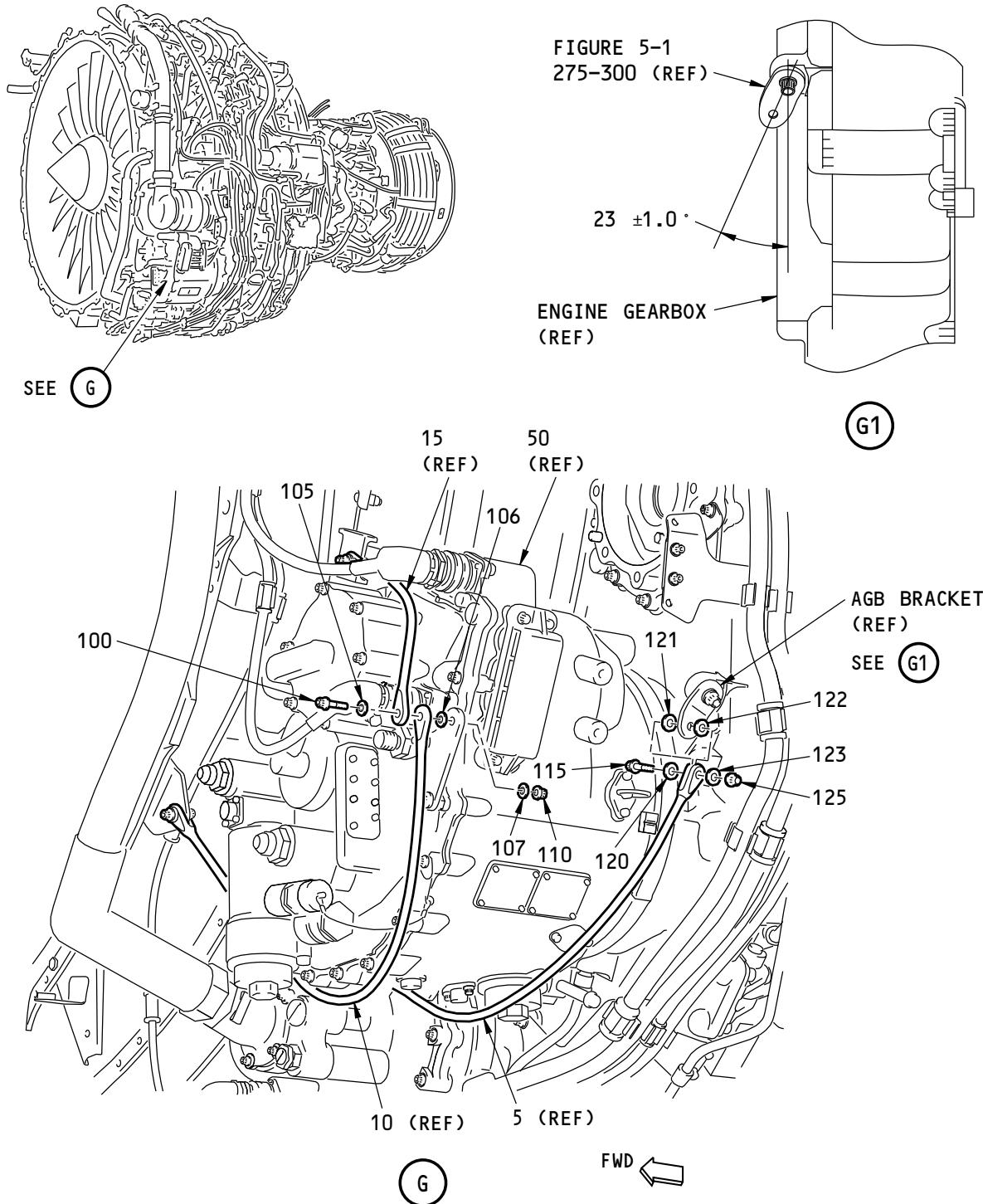
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 22-1     |             | <p><b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 22-1, SHEET 5)</b></p> <p><b>CAUTION:</b> OBSERVE ACTION ON QAD RING DURING TIGHTENING TO PREVENT BINDING OR SNAGGING. TIGHTEN TORQUE BOLT SO THE QAD RING LUGS FULLY ENGAGE THE IDG FLANGE LUGS.</p> <p>TIGHTEN TORQUE BOLT TO 240-264 POUND-INCHES (27.1-29.8 NEWTON METERS).</p> <p>TAP QAD RING IN AREA SHOWN WITH SOFT MALLET OR BRASS DRIFT TO CENTER THE QAD RING AND PREVENT FALSE TORQUE READINGS.</p> <p>CHECK TORQUE VALUE ON TORQUE BOLT.</p> <p>IF THE TORQUE IS LESS THAN 180 POUND-INCHES (20.4 NEWTON METERS), TORQUE BOLT TO 240-264 POUND-INCHES (27.1-29.8 NEWTON METERS) AND REPEAT TAP-TORQUE PROCEDURE UNTIL THE TORQUE ON THE TORQUE BOLT DOES NOT DROP BELOW 180 POUND-INCHES (20.4 NEWTON METERS) AFTER TAPPING ON THE QAD RING.</p> <p>TIGHTEN TORQUE BOLT TO 240-264 POUND-INCHES (27.1-29.8 NEWTON METERS).</p> <p>IF THE FIRST TORQUE IS ABOVE 180 POUND-INCHES (20.4 NEWTON METERS), REPEAT TAPPING ON QAD RING AND CHECK TORQUE AGAIN.</p> <p>IF SECOND TORQUE REMAINS ABOVE 180 POUND-INCHES (20.4 NEWTON METERS), LOOSEN TORQUE BOLT.</p> <p>RETIGHTEN TORQUE BOLT TO 240-264 POUND-INCHES (27.1-29.8 NEWTON METERS).</p> <p>INSTALL safety cable kit, G50375 (C6) OR MS20995NC32 lockwire, G01912 (C7) ON TORQUE BOLT.</p> |     |     |
| C6       | G50375      | . SAFETY CABLE KIT   | CON | 1   |
| C7       | G01912      | . LOCKWIRE (OPT)<br>REMOVE IDG JACK EQUIPMENT (T1 THRU T2) FROM IDG (50).  | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 22-1**

Page 11

Jun 15/2016

D633A106-AKS



Integrated Drive Generator Installation  
Figure 22-1 (Sheet 6)

**71-00-02**

P/P BUILDUP FIGURE 22-1

Page 12

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

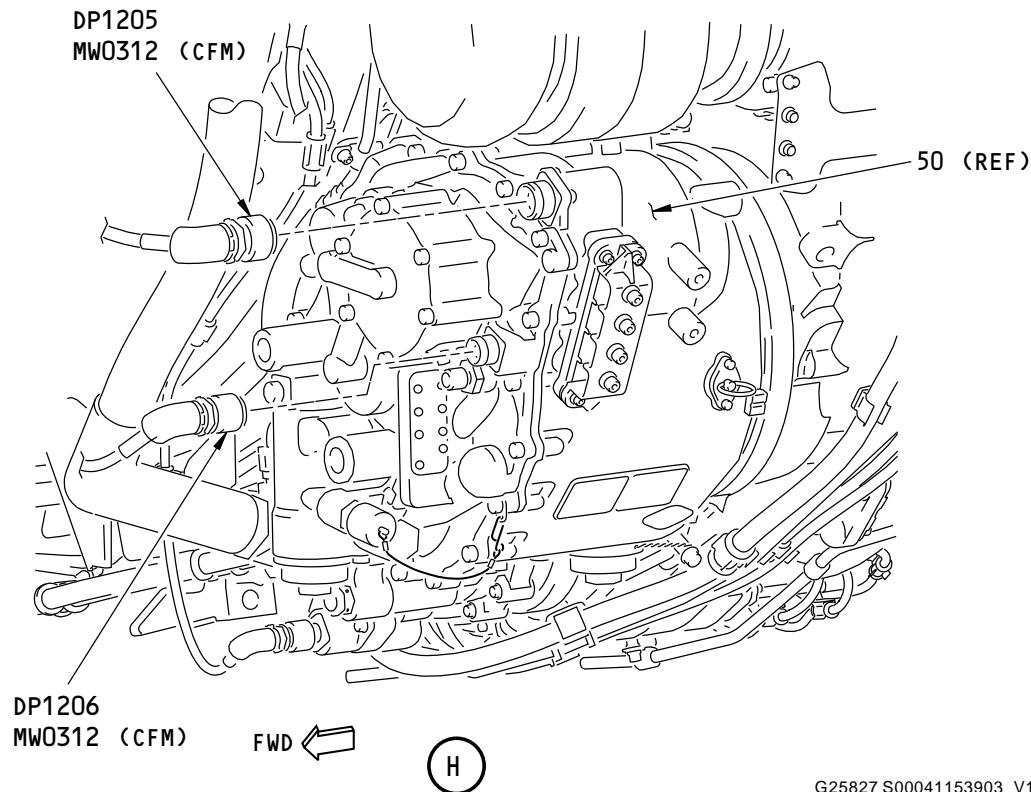
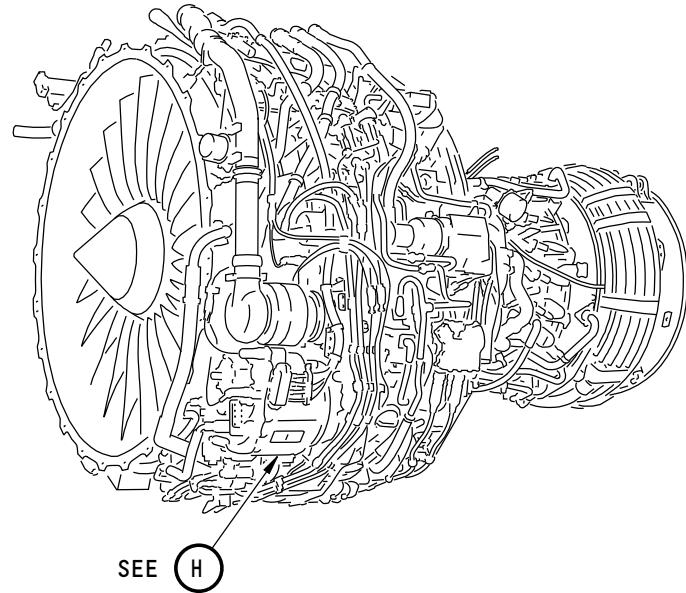
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 22-1     |               | <b>INTEGRATED DRIVE GENERATOR INSTALLATION (FIGURE 22-1, SHEET 6)</b><br><br>ROUTE LANYARD ASSY (10) UNDER IDG (50) AND ROUTE LANYARD ASSY (15) OVER TOP OF IDG (50).<br><br>LOOSELY ATTACH LANYARD ASSYS (10) AND (15) TO IDG BRACKET USING BOLT (100), WASHERS (105, 106) AND NUT (110). |     |     |
| 100      | BACB30LE5K14  | . BOLT   |     | 1   |
| 105      | BACW10BP5ACU  | . WASHER (CSK) (UNDER BOLT HEAD)   |     | 1   |
| 105      | BACW10BP5CD   | . WASHER (CSK) (OPTIONAL TO BACW10BP5ACU)  | OPT | -   |
| 106      | BACW10BP5APU  | . WASHER (PLAIN) (BTWN (10) AND IDG BRACKET)   |     | 1   |
| 107      | NAS1149E0563R | . WASHER (UNDER NUT)   |     | 1   |
| 110      | AS3485-11     | . NUT  |     | 1   |
| 110      | BACN10HR5CS   | . NUT (OPTIONAL TO AS3485-11)  | OPT | -   |
|          |               | ROUTE LANYARD (5) UNDER IDG (50) AND LOOSELY ATTACH TO AGB BRACKET USING BOLT (115), WASHERS (120 THRU 123) AND NUT (125).   |     |     |
|          |               | <b>NOTE:</b> ORIENT BRACKET APPROXIMATELY AS SHOWN TO MAXIMIZE CLEARANCE TO THE IDG AND SURROUNDING HARDWARE. FAILURE TO PROPERLY ORIENT BRACKET CAN RESULT IN CHAFING BETWEEN IDG AND LANYARD (5).  |     |     |
| 115      | BACB30LE5K8   | . BOLT   |     | 1   |
| 120      | BACW10BP5ACU  | . WASHER (CSK) (UNDER BOLT HEAD)   |     | 1   |
| 120      | BACW10BP5CD   | . WASHER (CSK) (OPTIONAL TO BACW10BP5ACU)  | OPT | -   |
| 121      | NAS1149E0532P | . WASHER (BETWEEN LANYARD CLEVIS AND AGB BRACKET) (BOLT SIDE)  |     | 1   |
| 122      | NAS1149E0516P | . WASHER (BETWEEN LANYARD CLEVIS AND ENGINE BRKT) (NUT SIDE)   |     | 1   |
| 123      | NAS1149E0563R | . WASHER (UNDER NUT)   |     | 1   |
| 125      | AS3485-11     | . NUT  |     | 1   |
| 125      | BACN10HR5CS   | . NUT (OPTIONAL TO AS3485-11)  | OPT | -   |
|          |               | ORIENT LANYARD ASSYS (5), AND (15) TO ACHIEVE MAXIMUM CLEARANCE WITH THE SURROUNDING EQUIPMENT.  |     |     |
|          |               | ORIENT LANYARD ASSY (10) TO MAINTAIN A CLEARANCE OF 0.03 - 0.13 INCHES FROM FASTENER ON IDG BRACKET ASSY.  |     |     |
|          |               | TIGHTEN BOLTS (20) TO 100-150 POUND-INCHES (11.3-17.0 NEWTON METERS).  |     |     |
|          |               | TIGHTEN BOLTS (100) AND (115) TO 100-150 POUND-INCHES (11.3-17.0 NEWTON METERS).   |     |     |

**71-00-02****P/P BUILDUP FIGURE 22-1**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

G25827 S00041153903\_V1

Integrated Drive Generator Installation  
Figure 22-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 22-1

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 22-1     |             | <p><b>INTEGRATED DRIVE GENERATOR INSTALLATION<br/>(FIGURE 22-1, SHEET 7)</b></p> <p><b>CAUTION:</b> DO NOT OVERTIGHTEN THE PLUG COUPLING RING. DO NOT USE WATER PUMP PLIERS, PIPE WRENCHES OR VISE GRIPS TO TIGHTEN THE COUPLING RING OR DAMAGE TO THE ELECTRICAL CONNECTOR CAN OCCUR.</p> <p>CONNECT MW0312 ELECTRICAL CONNECTOR, DP1205, TO TOP RECEPTACLE AND MW0312 ELECTRICAL CONNECTOR, DP1206, TO LOWER RECEPTACLE.</p> <p>TURN KNURLED COUPLING RING WHILE WIGGLING THE BACKSHELL ASSEMBLY.</p> <p>AFTER FULLY SEATING THE COUPLING RING, USE SOFT-JAWED PLIERS OR A STRAP WRENCH TO TIGHTEN THE COUPLING RING AN ADDITIONAL 1/8 TURN OR UNTIL PLIER SLIPPAGE OCCURS.</p> |    |     |

**71-00-02****P/P BUILDUP FIGURE 22-1**

Page 15

Jun 15/2016

D633A106-AKS

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**FIGURE 23-1**

**IDG AIR/OIL COOLER INSTALLATION**

**REF QEC TASK NO.: 23**

**REF DWG: 332A2600**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

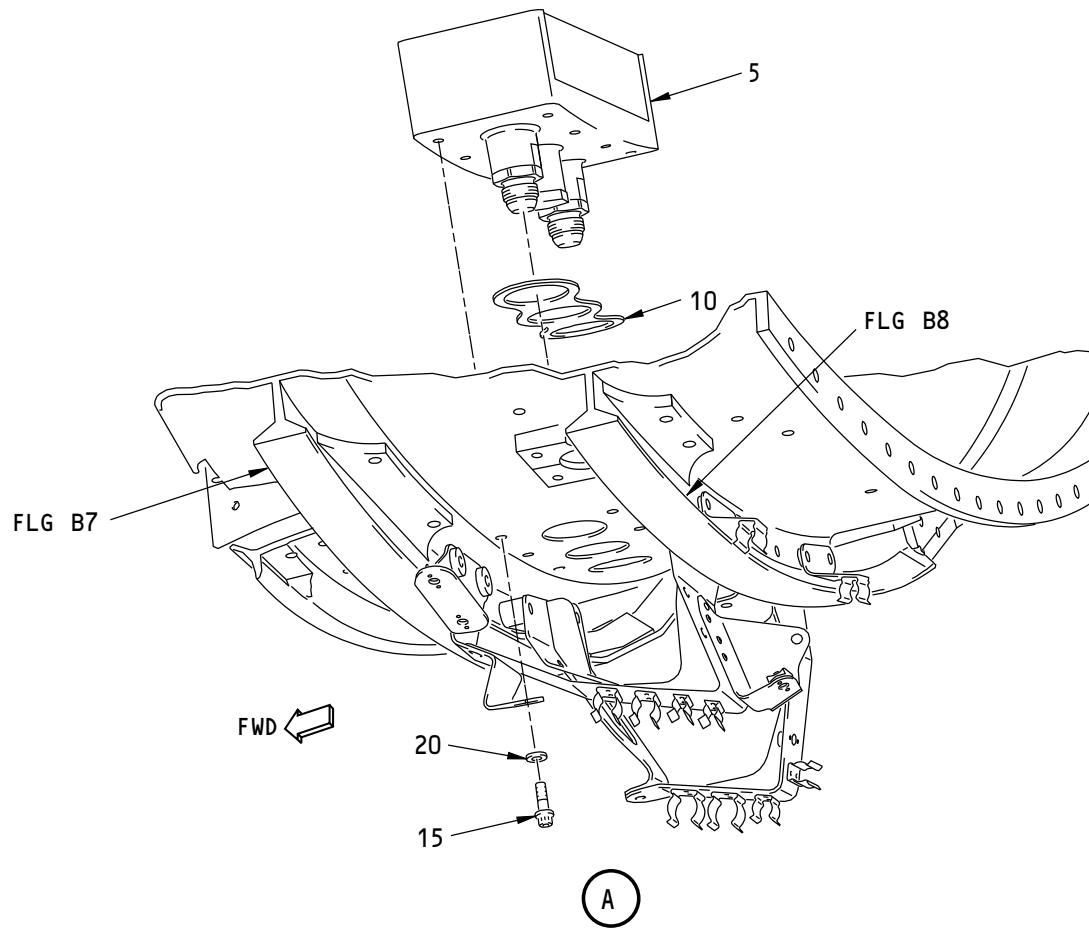
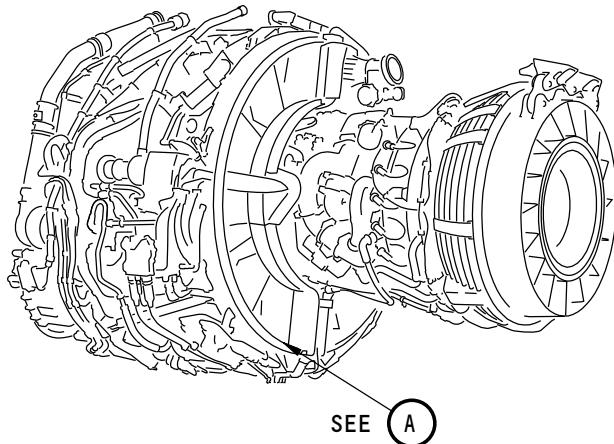
**P/P BUILDUP FIGURE 23-1**

Page 1

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

NOTE: CFMI WIRE HARNESES NOT SHOWN FOR CLARITY.

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**IDG Air/Oil Cooler Installation**  
**Figure 23-1 (Sheet 1)**

**71-00-02**

**P/P BUILDUP FIGURE 23-1**

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 23-1     |               | <b>IDG AIR/OIL COOLER INSTALLATION<br/>(FIGURE 23-1, SHEET 1)</b><br><br>REMOVE PROTECTIVE PLATE AND BOLTS, WASHERS AND NUTS FROM IDG COOLER PORT ON FAN CASE.<br>INSTALL GASKET (10) ON IDG AIR/OIL COOLER (5).<br>.  |     |     |
| 5        | UA538551-3    | . IDG AIR/OIL COOLER (V78943) (SPEC S332A260-1)  | VEN | 1   |
| 10       | U542648       | . . GASKET (V78943) (SPEC S332A260-4) (SUPPLIED WITH IDG AIR/OIL COOLER)   | REF | -   |
|          |               | APPLY Never-Seez NSBT compound, D00006 (C1) TO IDG AIR/OIL COOLER (5) THREADED INSERTS (8 LOCATIONS).<br>POSITION IDG AIR/OIL COOLER (5) ON FAN CASE AT APPROXIMATELY THE 6:30 O'CLOCK POSITION BETWEEN FLGS B7 AND B8.<br>ATTACH IDG AIR/OIL COOLER TO FAN CASE WITH BOLTS (15) AND WASHERS (20) INSTALLED THROUGH FAN CASE EXTERIOR. |     |     |
| 15       | BACB30ZF4-10  | . BOLT   |     | 8   |
| 20       | NAS1149C0463R | . WASHER   |     | 8   |
| C1       | D00006        | . NEVER SEEZ NSBT-8N COMPOUND<br>TIGHTEN BOLTS (15) TO 70-80 POUND-INCHES (7.9-9.0 NEWTON METERS).<br>MAKE SURE PROTECTIVE CAPS ARE INSTALLED ON IDG AIR/OIL COOLER PORTS.   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 23-1**

Page 3

Jun 15/2016

D633A106-AKS

**FIGURE 24-1**

**IDG PLUMBING INSTALLATION**

**REF QEC TASK NO.: 24**

**REF DWG: 332A2100**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

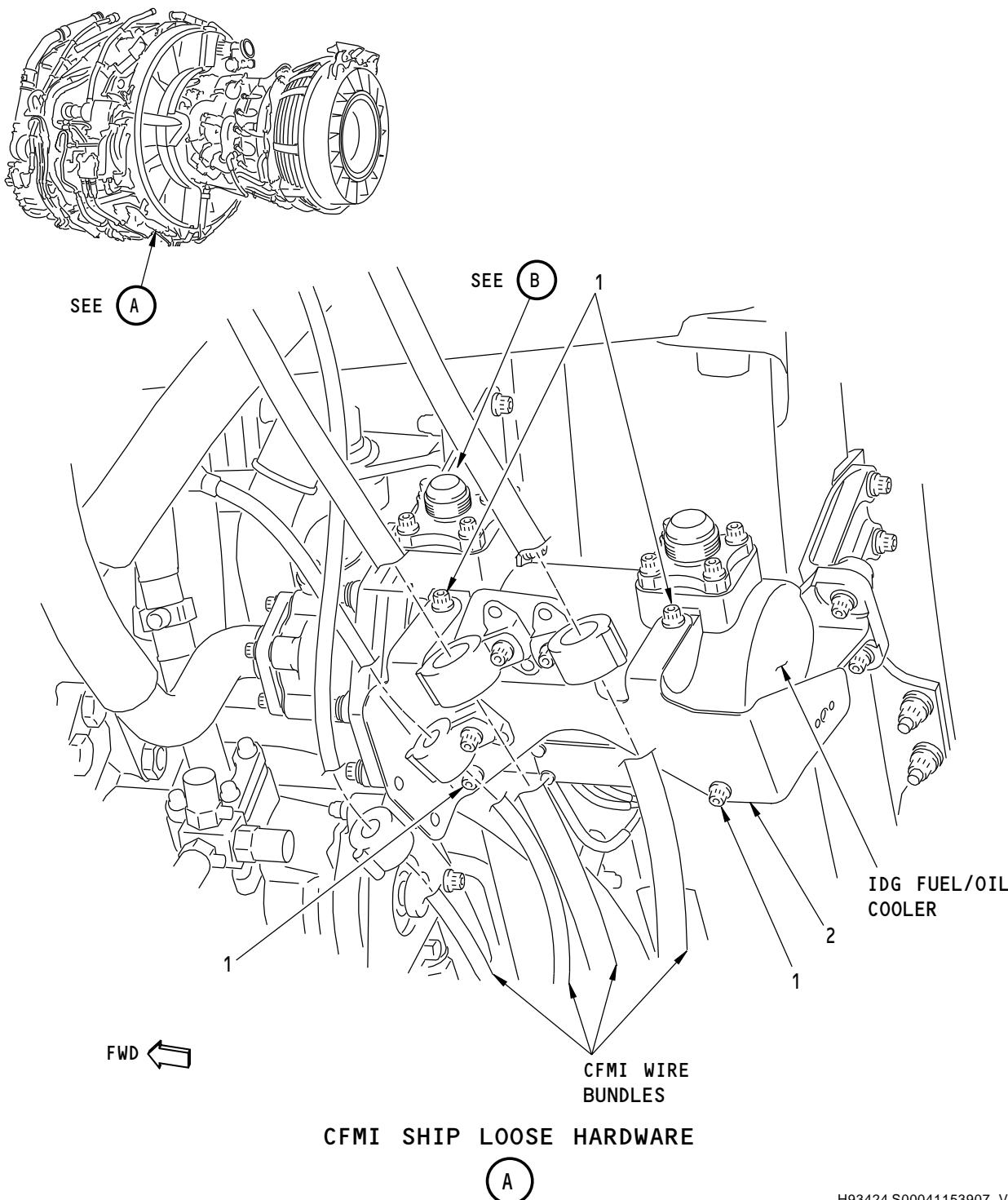
**P/P BUILDUP FIGURE 24-1**

Page 1

Jun 15/2016

D633A106-AKS

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IDG Plumbing Installation  
Figure 24-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 24-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

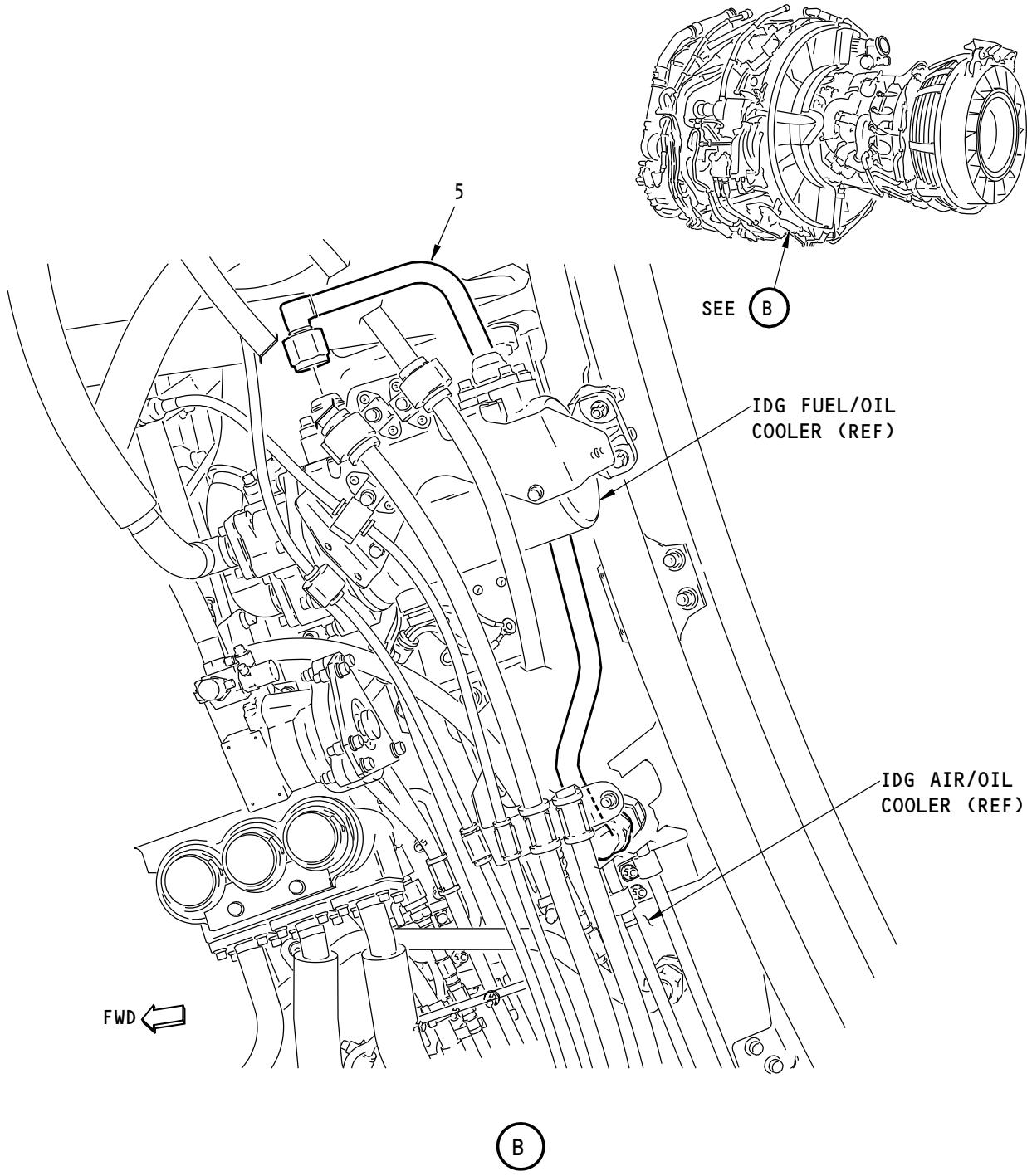
| ITEM NO. | PART NUMBER            | NOMENCLATURE   | UC      | QTY  |
|----------|------------------------|--|---------|------|
| 24-1     |                        | <b>IDG PLUMBING INSTALLATION</b><br><b>(FIGURE 24-1, SHEET 1)</b> <p><b>NOTE:</b> IN THIS PROCEDURE, DO NOT TIGHTEN SCREWS AND TUBES OR ELBOW NUTS UNLESS INSTRUCTED OR INSTALL PARTS IN A DIFFERENT SEQUENCE.</p> <p>TO REDUCE TUBE ASSY CLAMP DISTORTION UPON INSTALLATION, APPLY Never-Seez NSBT compound, D00006 (C1) TO BOLT HEAD SURFACE THAT COMES INTO CONTACT WITH THE CLAMP. APPLY TO BOLT HEAD ONLY. DO NOT APPLY TO BOLT THREADS.</p> <p><b>CAUTION:</b> IN THIS PROCEDURE WHEN TIGHTENING TUBE OR ELBOW NUTS, USE TWO WRENCHES; ONE TO HOLD THE SPANNER FLATS ON THE NIPPLE AND ONE TO TIGHTEN THE NUT.</p> <p>CFMI SHIP LOOSE HARDWARE<br/>(INSTALLED BY CFMI ON SOME ENGINES)</p> <p>APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS OF BOLTS (1)</p> <ul style="list-style-type: none"> <li>. BOLT (4 REQD)*<sup>[1]</sup></li> <li>. NEVER SEEZ NSBT-8N COMPOUND</li> </ul> <p>ATTACH BRACKET ASSY (2) TO IDG FUEL/OIL COOLER WITH LUBRICATED BOLTS (1).</p> <ul style="list-style-type: none"> <li>. BRACKET ASSY (1 REQD)*<sup>[1]</sup></li> </ul> <p>TIGHTEN BOLTS (1) TO 100-110 POUND-INCHES (11.3-12.4 NEWTON METERS).</p> <p><b>NOTE:</b> TO ALLOW BETTER ACCESS, DO NOT SECURE CFMI WIRE BUNDLES IN HINGE CLAMPS OF BRACKET ASSY AT THIS TIME. WIRE BUNDLES WILL BE SECURED AT THE END OF THE PROCEDURE.</p> <p>*[1] PART NUMBERS ARE SHOWN FOR REFERENCE ONLY AND ARE SUBJECT TO CHANGE. REFER TO CFMI ILLUSTRATED PARTS CATALOG (IPC) 72-00-00-23 FOR LATEST PART NUMBER INFORMATION.</p> |         |      |
| 1<br>C1  | BACB30ZF4-08<br>D00006 |  | REF CON | - AR |
| 2        | 340-087-904-0          |  | REF     | -    |

**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 3

Jun 15/2016

D633A106-AKS



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IDG Plumbing Installation  
Figure 24-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 24-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO.  | PART NUMBER | NOMENCLATURE  | UC | QTY |
|-----------|-------------|---|----|-----|
| 24-1<br>5 | 332A2240-10 | <b>IDG PLUMBING INSTALLATION<br/>(FIGURE 24-1, SHEET 2)</b><br>LOOSELY INSTALL TUBE ASSY (5) TO FORWARD NIPPLE ON FUEL/OIL COOLER AND OUTBOARD NIPPLE ON AIR/OIL COOLER. HAND TIGHTEN TUBE NUT ONLY.<br>. TUBE ASSY |    | 1   |

**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 5

Jun 15/2016

D633A106-AKS

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IDG Plumbing Installation  
Figure 24-1 (Sheet 3)

**71-00-02**

**P/P BUILDUP FIGURE 24-1**

Page 6

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 24-1     |             | IDG PLUMBING INSTALLATION<br>(FIGURE 24-1, SHEET 3)<br><br>THIS SHEET NOT USED |    |     |

**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 7

Jun 15/2016

D633A106-AKS

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IDG Plumbing Installation  
Figure 24-1 (Sheet 4)

**71-00-02**

**P/P BUILDUP FIGURE 24-1**

Page 8

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 24-1     |             | IDG PLUMBING INSTALLATION<br>(FIGURE 24-1, SHEET 4)<br><br>THIS SHEET NOT USED |    |     |

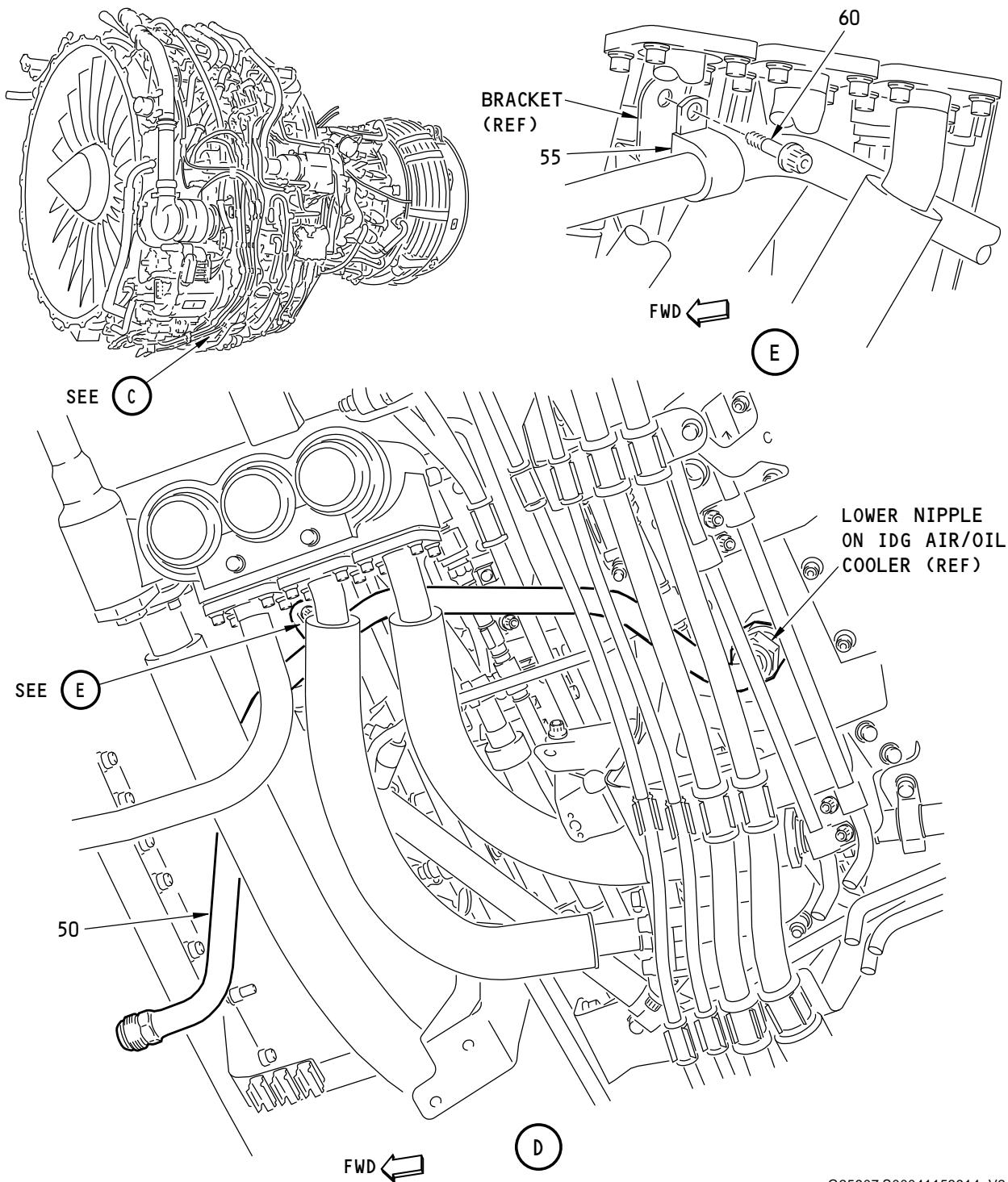
**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 9

Jun 15/2016

D633A106-AKS

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G25907 S00041153914\_V2

IDG Plumbing Installation  
Figure 24-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 24-1

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 24-1     |              | <b>IDG PLUMBING INSTALLATION<br/>(FIGURE 24-1, SHEET 5)</b><br><br>REMOVE PROTECTIVE COVER FROM LOWER NIPPLE ON IDG AIR/OIL COOLER.<br><br>POSITION TUBE ASSY (50) UNDER OIL SCAVENGE TUBES AND CFMI WIRE BUNDLES AND LOOSELY CONNECT TUBE NUT TO NIPPLE ON IDG AIR/OIL COOLER. |     |     |
| 50       | 332A2240-1   | . TUBE ASSY<br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLT (60). ATTACH TUBE ASSY (50) TO ENGINE BRACKET NEXT TO MCD HOUSING. USE CLAMP (55) AND BOLT (60).  |     | 1   |
| 55       | J1221G10     | . CLAMP (V07482)  | VEN | 1   |
| 60       | BACB30ZF4-06 | . BOLT  |     | 1   |
| C1       | D00006       | . NEVER SEEZ NSBT-8N COMPOUND<br><br>TIGHTEN BOLT (60) TO 73-77 POUND-INCHES (8.24-8.69 NEWTON METERS).   | CON | AR  |

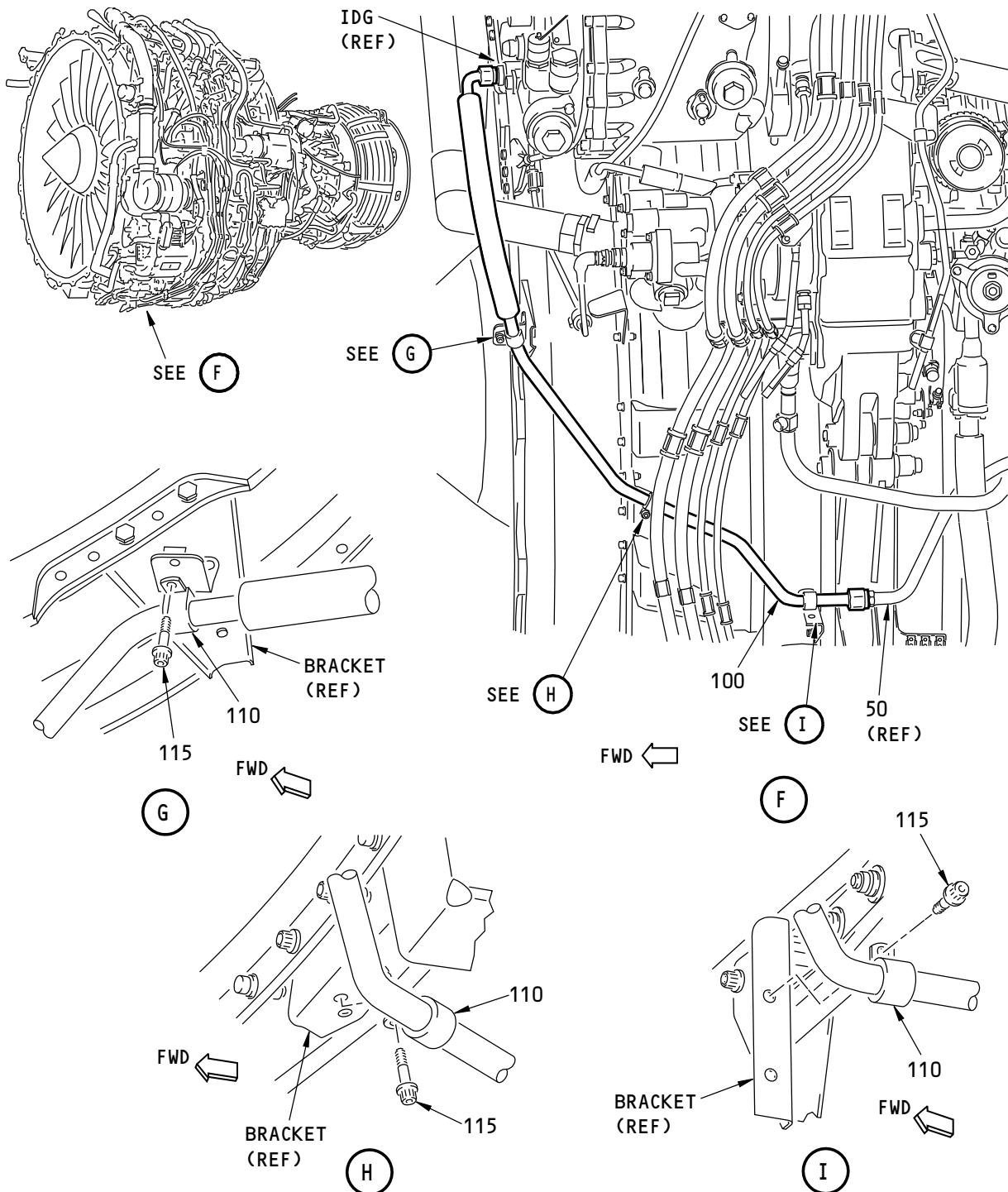
**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 11

Jun 15/2016

D633A106-AKS

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IDG Plumbing Installation  
Figure 24-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 24-1

Page 12

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

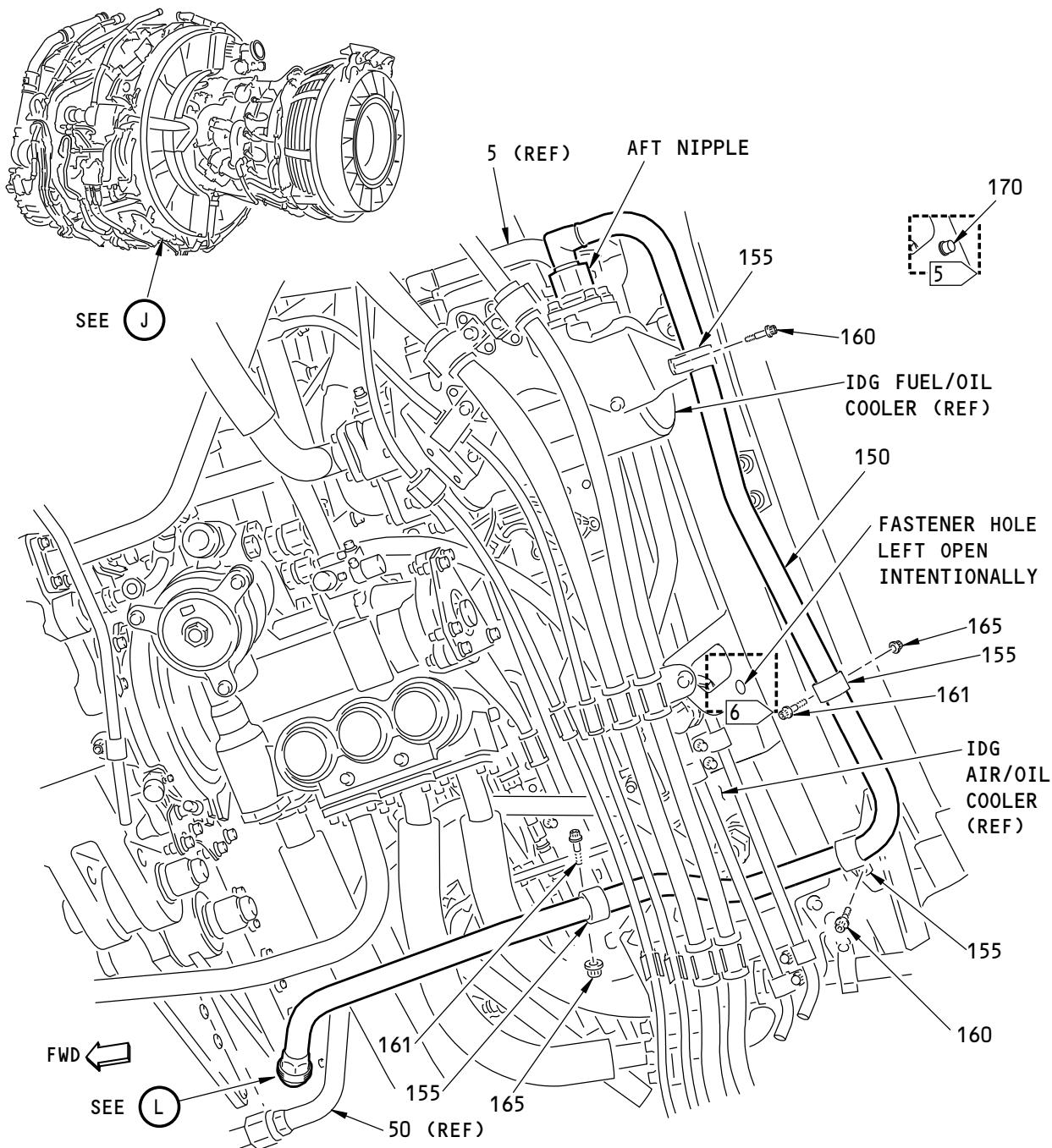
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 24-1     |              | <b>IDG PLUMBING INSTALLATION<br/>(FIGURE 24-1, SHEET 6)</b>  |     |     |
| 100      | 115096-4     | LOOSELY ATTACH HOSE/TUBE ASSY (100) TO TUBE ASSY (50) AND TO OIL-OUT NIPPLE (INBOARD LOCATION) ON IDG. HAND TIGHTEN TUBE NUTS ONLY.<br>. IDG HOSE/TUBE ASSY (V78570) (SPEC S332A240-4)<br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLTS (115). AT THREE LOCATIONS, LOOSELY ATTACH HOSE/TUBE ASSY (100) TO ENGINE BRACKETS WITH CLAMPS (110) AND BOLTS (115). | VEN | 1   |
| 110      | J1221G10     | . CLAMP (V07482)   | VEN | 3   |
| 115      | BACB30ZF4-06 | . BOLT   |     | 3   |
| C1       | D00006       | . NEVER SEEZ NSBT-8N COMPOUND  | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 13

Jun 15/2016

D633A106-AKS



5 WITH FASTENER

6 WITHOUT FASTENER

J

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IDG Plumbing Installation  
Figure 24-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 24-1

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 24-1     |              | <b>IDG PLUMBING INSTALLATION<br/>(FIGURE 24-1, SHEET 7)</b><br><br>REMOVE PROTECTIVE COVER FROM AFT NIPPLE OF FUEL/OIL COOLER.<br><br>LOOSELY ATTACH TUBE ASSY (150) TO AFT NIPPLE ON IDG FUEL/OIL COOLER. HAND TIGHTEN TUBE NUT.                |     |     |
| 150      | 332A2240-11  | . TUBE ASSY<br><br>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLTS (160, 161). AT FOUR LOCATIONS, LOOSELY ATTACH TUBE ASSY (150) TO ENGINE BRACKETS USING CLAMPS (155), BOLTS (160, 161) AND NUTS (165). | 1   |     |
| 155      | J1221G12     | . CLAMP (V07482)   | VEN | 4   |
| 160      | BACB30ZF4-06 | . BOLT   |     | 2   |
| 161      | BACB30ZF4-08 | . BOLT   |     | 2   |
| 165      | AS3485-10    | . NUT  |     | 2   |
| C1       | D00006       | . NEVER SEEZ NSBT-8N COMPOUND<br><u>WITH FASTENER</u><br><br>INSTALL BOLT (170) IN FASTENER HOLE.  | CON | AR  |
| 170      | BACB30ZF4-07 | . BOLT (1 REQD)<br><u>WITHOUT FASTENER</u><br><br>FASTENER HOLE LEFT OPEN INTENTIONALLY.   | LTD | -   |

**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 15

Jun 15/2016

D633A106-AKS

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IDG Plumbing Installation  
Figure 24-1 (Sheet 8)

**71-00-02**

**P/P BUILDUP FIGURE 24-1**

Page 16

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 24-1     |             | IDG PLUMBING INSTALLATION<br>(FIGURE 24-1, SHEET 8)<br><br>THIS SHEET NOT USED |    |     |

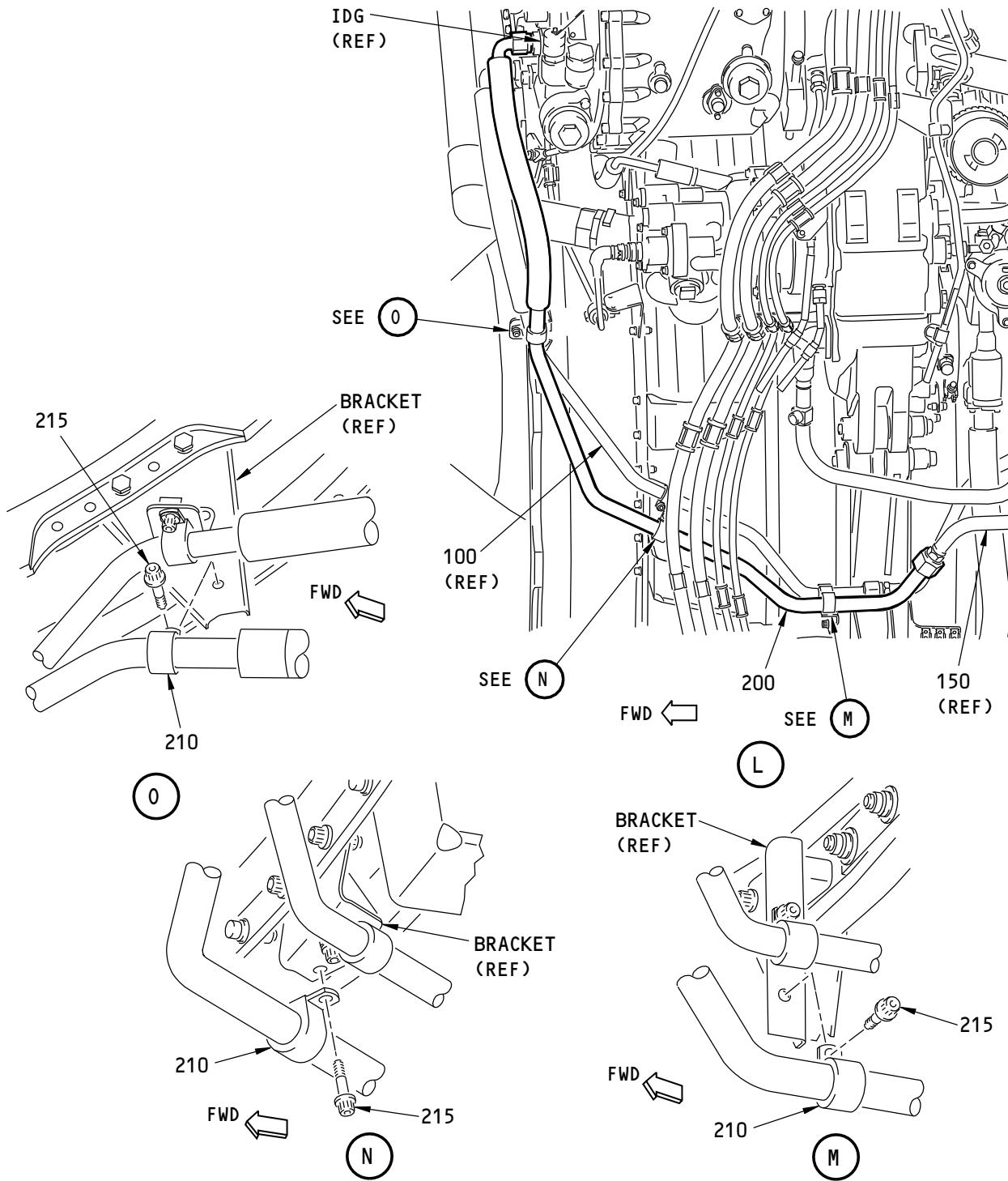
**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 17

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUALIDG Plumbing Installation  
Figure 24-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 24-1

Page 18

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

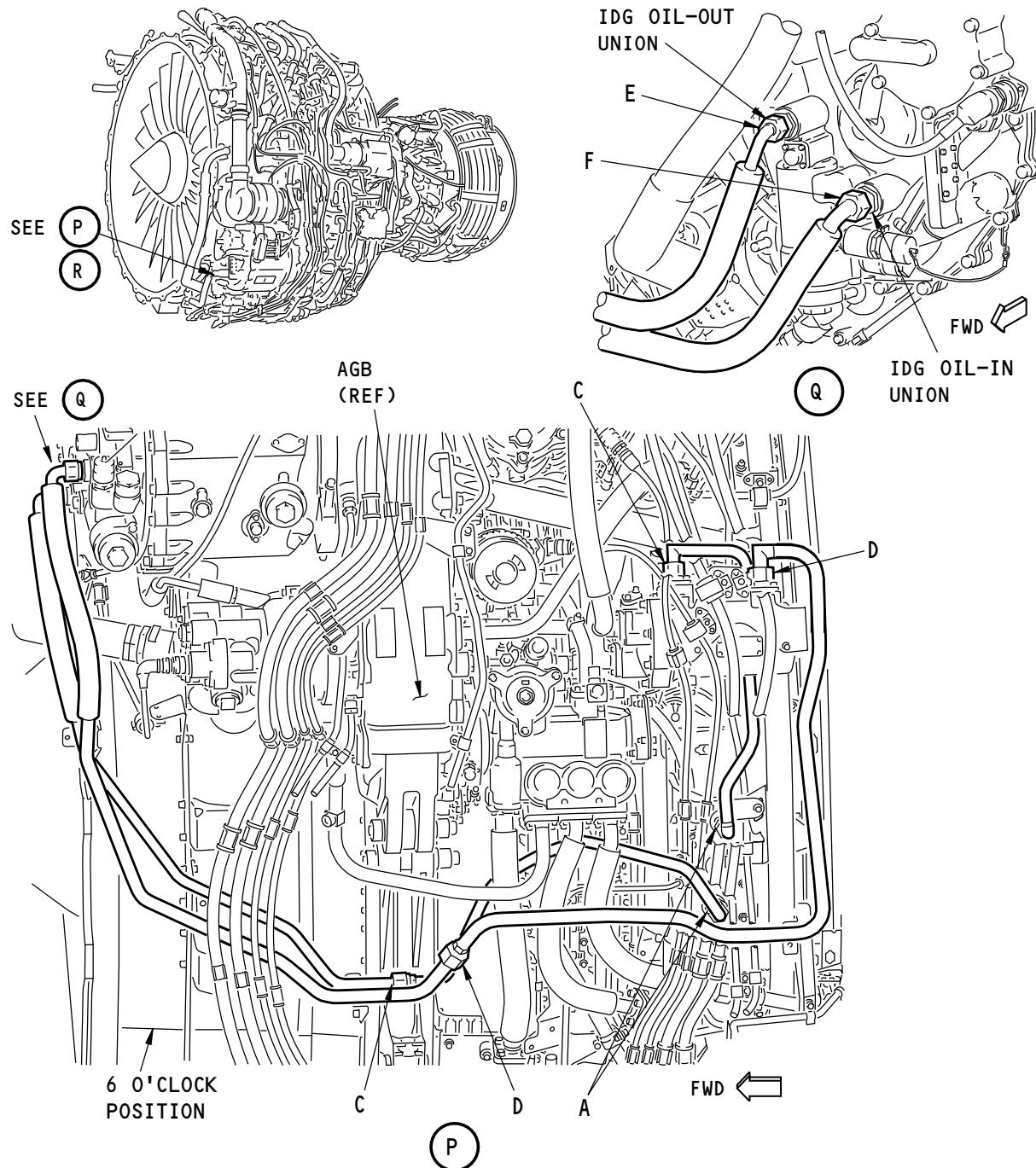
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 24-1     |              | <b>IDG PLUMBING INSTALLATION<br/>(FIGURE 24-1, SHEET 9)</b>   |     |     |
| 200      | 115096-2     | <p>LOOSELY ATTACH HOSE/TUBE ASSMBLY (200) TO TUBE ASSY (150) AND TO OIL-IN NIPPLE (OUTBOARD LOCATION) ON IDG. HAND TIGHTEN TUBE NUTS ONLY.</p> <p>. IDG HOSE/TUBE ASSY (V78570) (SPEC S332A240-2)</p> <p>APPLY LIGHT COATING OF Never-Seez NSBT compound, D00006 (C1) TO UNDERSIDE HEAD OF BOLTS (215). AT THREE LOCATIONS, LOOSELY ATTACH HOSE/TUBE ASSY (200) TO ENGINE BRACKETS WITH CLAMPS (210) AND BOLTS (215).</p> | VEN | 1   |
| 210      | J1221G12     | . CLAMP (V07482)  | VEN | 3   |
| 215      | BACB30ZF4-06 | . BOLT  |     | 3   |
| C1       | D00006       | . NEVER SEEZ NSBT-8N COMPOUND   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 19

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

W20225 S00041153922\_V1

IDG Plumbing Installation  
Figure 24-1 (Sheet 10)

71-00-02

P/P BUILDUP FIGURE 24-1

Page 20

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

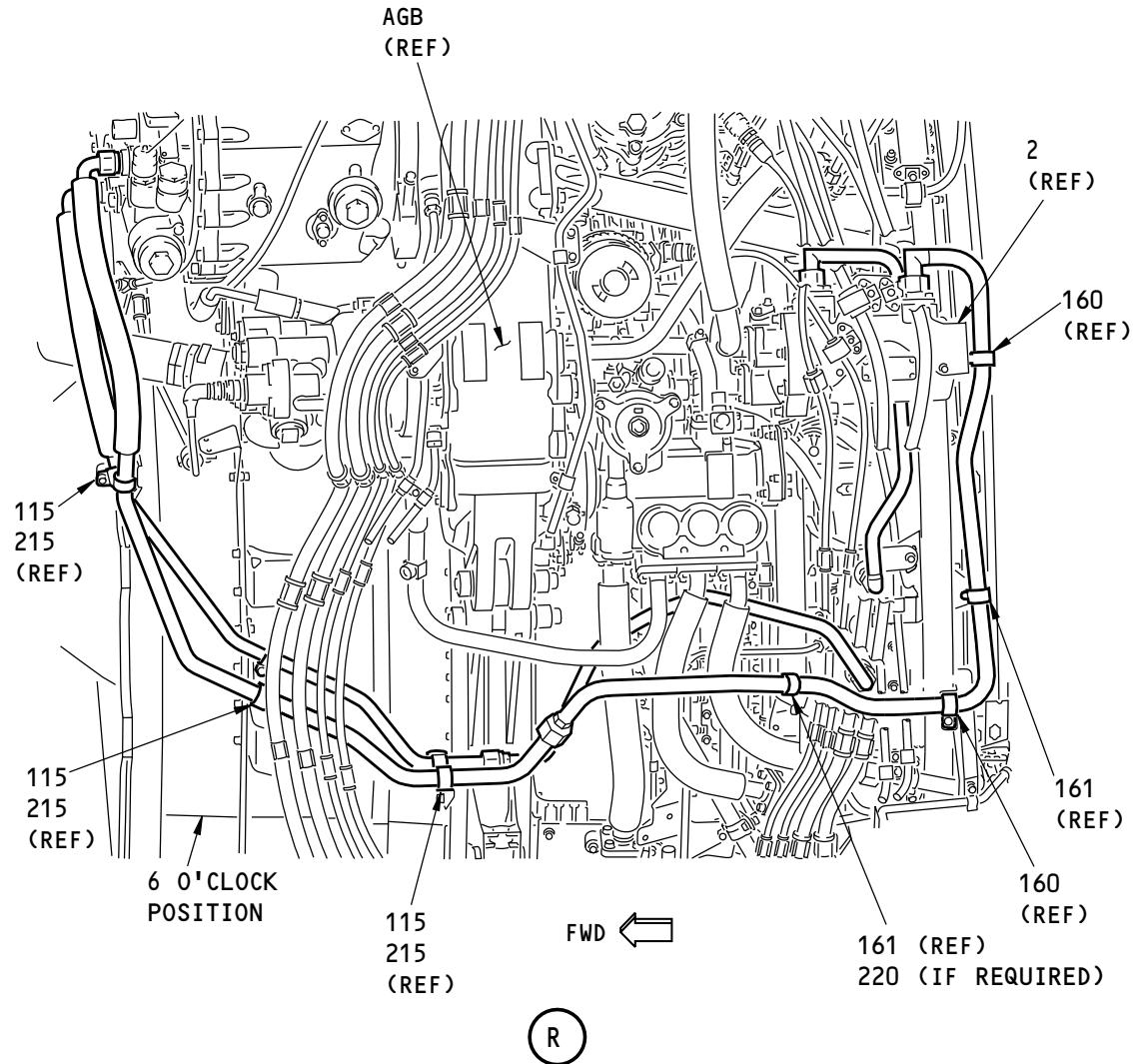
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 24-1     |             | <p><b>IDG PLUMBING INSTALLATION<br/>(FIGURE 24-1, SHEET 10)</b></p> <p>ADJUST ALL TUBES TO BEST POSITION TO MAKE SURE NO PRELOAD FORCE ON TUBES OR VALVE ARE PRESENT.</p> <p>TIGHTEN ALL CONNECTIONS AS FOLLOWS. USE THE LOCATION SHOWN ON THE VIEWS TO TELL YOU WHAT TORQUE VALUE TO APPLY.</p> <p><u>LOCATION A:</u></p> <p>TIGHTEN TUBE NUT TO 342-378 POUND-INCHES (38.6-42.7 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> <p><u>LOCATION C:</u></p> <p>TIGHTEN TUBE NUT TO 665-735 POUND-INCHES (75.1-83.0 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> <p><u>LOCATION D:</u></p> <p>TIGHTEN TUBE NUT TO 855-945 POUND-INCHES 96.6-106.8 NEWTON METERS). BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> <p><u>LOCATION E:</u></p> <p>TIGHTEN TUBE NUT TO 475-525 POUND-INCHES 53.7-59.3 NEWTON METERS). USE BACKUP WRENCH ON IDG UNION TO PREVENT TORQUE TRANSFER. BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> <p><u>LOCATION F:</u></p> <p>TIGHTEN TUBE NUT TO 665-735 POUND-INCHES 75.1-83.0 NEWTON METERS). USE BACKUP WRENCH ON IDG UNION TO PREVENT TORQUE TRANSFER. BACK OFF NUT TO RELAX TORQUE, THEN RETIGHTEN.</p> |    |     |

**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 21

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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IDG Plumbing Installation  
Figure 24-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 24-1

Page 22

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO.    | PART NUMBER | NOMENCLATURE  | UC | QTY |
|-------------|-------------|---|----|-----|
| 24-1<br>220 | 332W1910-9  | <p><b>IDG PLUMBING INSTALLATION<br/>(FIGURE 24-1, SHEET 11)</b></p> <p>ADJUST ALL CLAMPS TO BEST POSITION TO MAKE SURE NO PRELOAD FORCES EXIST ON TUBES OR VALVES. IF REQUIRED, INSTALL UP TO 3 SPACERS (220) UNDER CLAMP FOOT AT LOCATION SHOWN TO ELIMINATE PRELOAD.</p> <p>. SPACER (3 MAX ALLOWED)</p> <p>TIGHTEN BOLTS (25), (115), (160), (161) AND (215) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).</p> <p>SECURE CFMI WIRE BUNDLES IN HINGED CLAMPS OF BRACKET (2).</p> | AR | 3   |

**71-00-02****P/P BUILDUP FIGURE 24-1**

Page 23

Jun 15/2016

D633A106-AKS

**FIGURE 25-1**

**STARTER VALVE AND DUCT INSTALLATION**

**REF QEC TASK NO.: 25**

**REF DWG: 332A2300**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

**P/P BUILDUP FIGURE 25-1**

Page 1

Jun 15/2016

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**Starter Valve and Duct Installation**  
**Figure 25-1 (Sheet 1)**

**71-00-02**

**P/P BUILDUP FIGURE 25-1**

Page 2

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 25-1     |             | STARTER VALVE AND DUCT INSTALLATION<br>(FIGURE 25-1, SHEET 1)<br>THIS SHEET NOT USED |    |     |

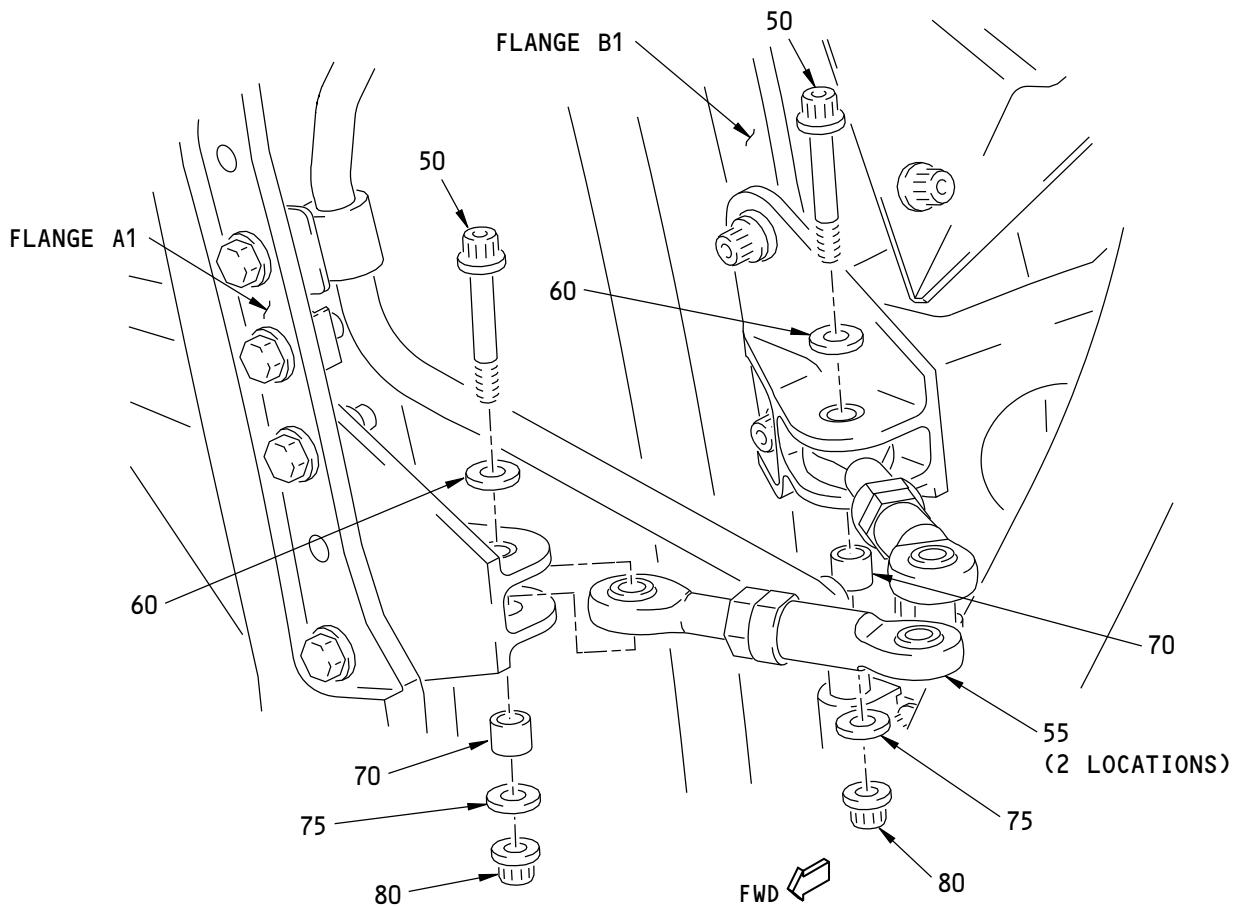
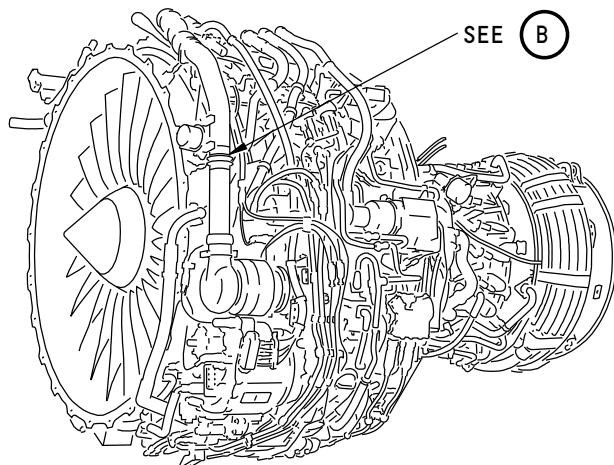
**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 3

Jun 15/2016

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POWERPLANT BUILDUP MANUAL

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Starter Valve and Duct Installation  
Figure 25-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 25-1

Page 4

Jun 15/2016

D633A106-AKS

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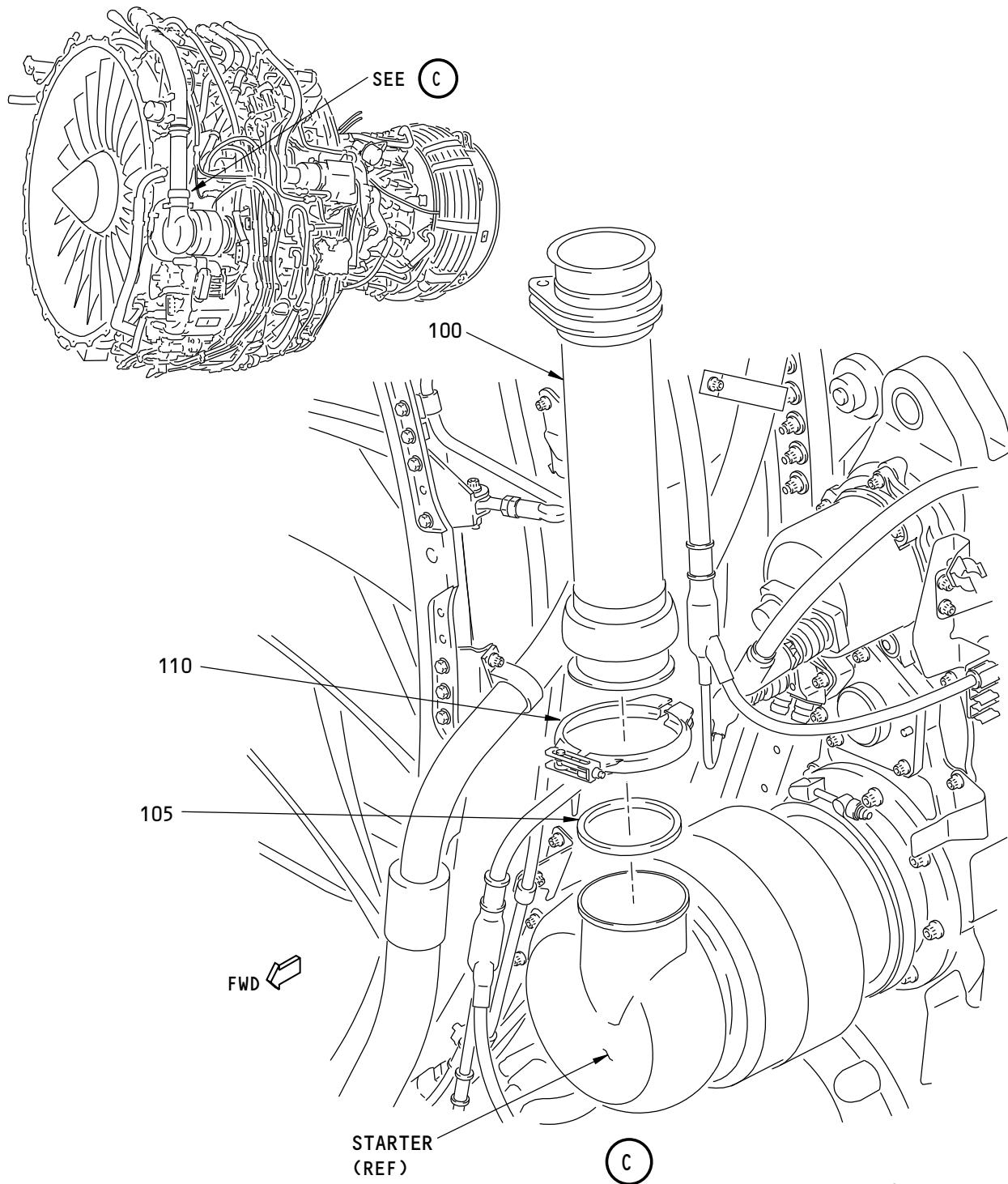
| ITEM NO. | PART NUMBER    | NOMENCLATURE   | UC  | QTY |
|----------|----------------|--|-----|-----|
| 25-1     |                | <b>STARTER VALVE AND DUCT INSTALLATION (FIGURE 25-1, SHEET 2)</b>  |     |     |
| 50       | BACB30PN4-14   | LUBRICATE THREADS AND SHANK OF BOLTS (50) WITH Never-Seez NSBT compound, D00006 (C1).  |     | 2   |
| C1       | D00006         | <ul style="list-style-type: none"> <li>. BOLT</li> <li>. NEVER SEEZ NSBT-8N COMPOUND</li> </ul>  | CON | AR  |
|          |                | LOOSEN JAMNUTS OF LINK ASSEMBLIES (55) TO FREE ROD ENDS. ADJUST LINKS TO 3.00 INCHES (7.62 CM) MEASURED FROM THE CENTERLINE OF SPHERICAL BEARINGS. RETIGHTEN JAMNUTS.  |     |     |
|          |                | ATTACH LINK ASSEMBLIES (55) TO ENGINE BRACKETS AT 10:30 O'CLOCK POSITIONS ON FLGS A1 AND B1 WITH LUBRICATED BOLTS (50), WASHERS (60) AND (75), BUSHINGS (70) AND NUTS (80).  |     |     |
| 55       | 322U2338-2     | <ul style="list-style-type: none"> <li>. LINK ASSY</li> </ul>  |     | 2   |
| 60       | BACW10BP4ACU   | <ul style="list-style-type: none"> <li>. WASHER (CSK) (UNDER BOLTHEAD)</li> </ul>  |     | 2   |
| 70       | BACB28AK04-030 | <ul style="list-style-type: none"> <li>. BUSHING</li> </ul>  |     | 2   |
| 75       | NAS1149C0432R  | <ul style="list-style-type: none"> <li>. WASHER (UNDER NUT)</li> </ul>   |     | 2   |
| 80       | AS3485-10      | <ul style="list-style-type: none"> <li>. NUT</li> </ul> <p><b>CAUTION:</b> BEFORE TIGHTENING NUT, MAKE SURE BUSHING IS FULLY ENGAGED.</p> <p>TIGHTEN BOLTS (50) TO 50-75 POUND-INCHES (5.6-8.5 NEWTON METERS).</p> |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 5

Jun 15/2016

D633A106-AKS



F04418 S00041153937\_V1

**Starter Valve and Duct Installation  
Figure 25-1 (Sheet 3)****71-00-02****P/P BUILDUP FIGURE 25-1**

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 25-1     |              | <b>STARTER VALVE AND DUCT INSTALLATION<br/>(FIGURE 25-1, SHEET 3)</b><br><br>INSTALL SEAL (105) IN BOTTOM END OF DUCT ASSY (100).<br>POSITION DUCT (100) ON TOP PORT OF STARTER ALIGNING KEY-SLOT IN DUCT WITH KEY ON STARTER AND LOOSELY SECURE WITH COUPLING (110).<br><br><u>NOTE:</u> DO NOT TIGHTEN COUPLING AT THIS TIME.<br><u>NOTE:</u> EARLIER STARTERS MAY NOT HAVE KEY. |     |     |
| 100      | 332A2313-1   | . DUCT ASSY  |     | 1   |
| 105      | AS1895-7-325 | . SEAL   |     | 1   |
| 105      | AS1895/7-325 | . SEAL (OPTIONAL TO AS1895-7-325)  | OPT | -   |
| 110      | AS1895-4-325 | . COUPLING   |     | 1   |
| 110      | AS1895/4-325 | . COUPLING (OPTIONAL TO AS1895-4-325)  | OPT | -   |

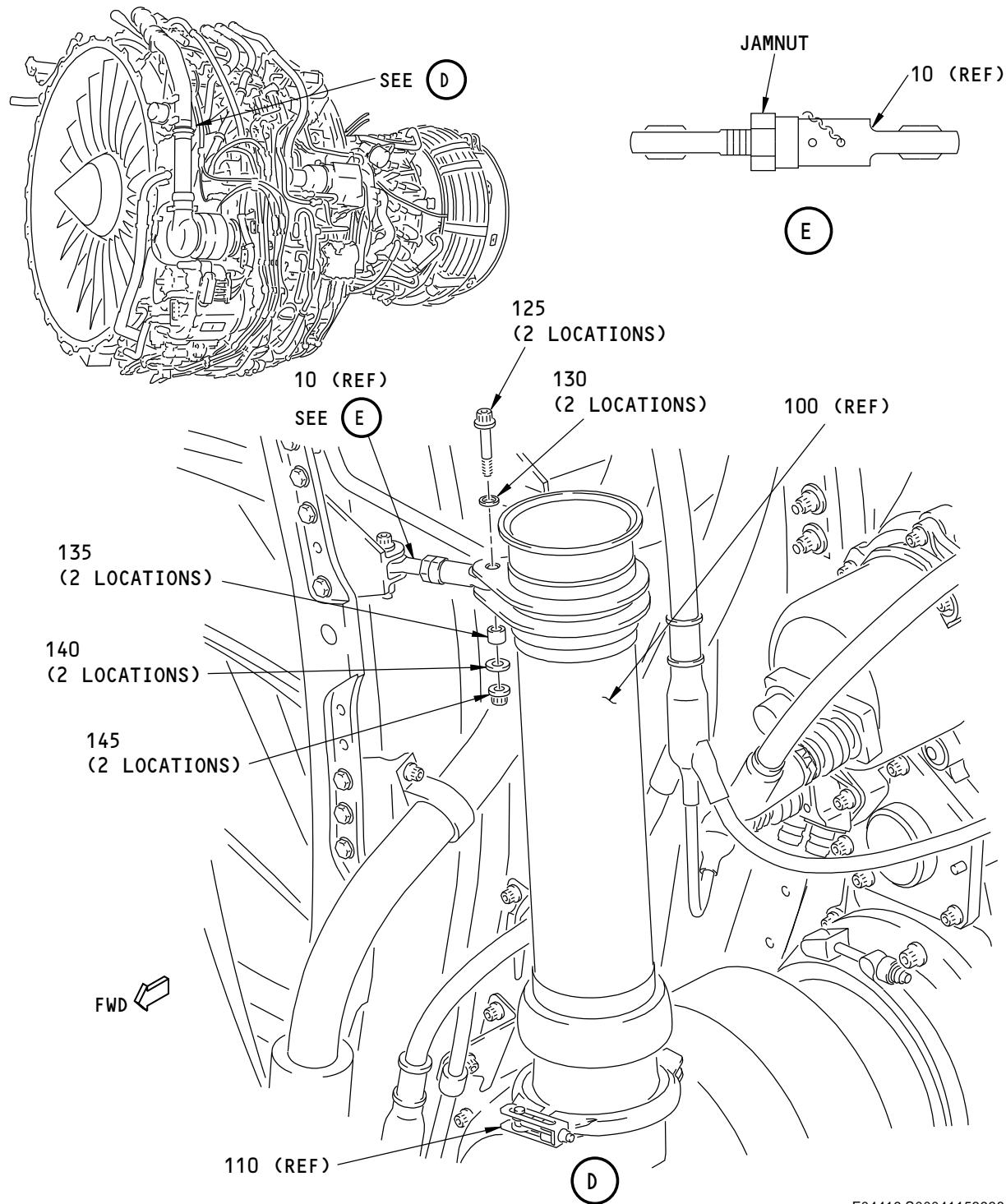
**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 7

Jun 15/2016

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F04419 S00041153938\_V1

Starter Valve and Duct Installation  
Figure 25-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 25-1

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

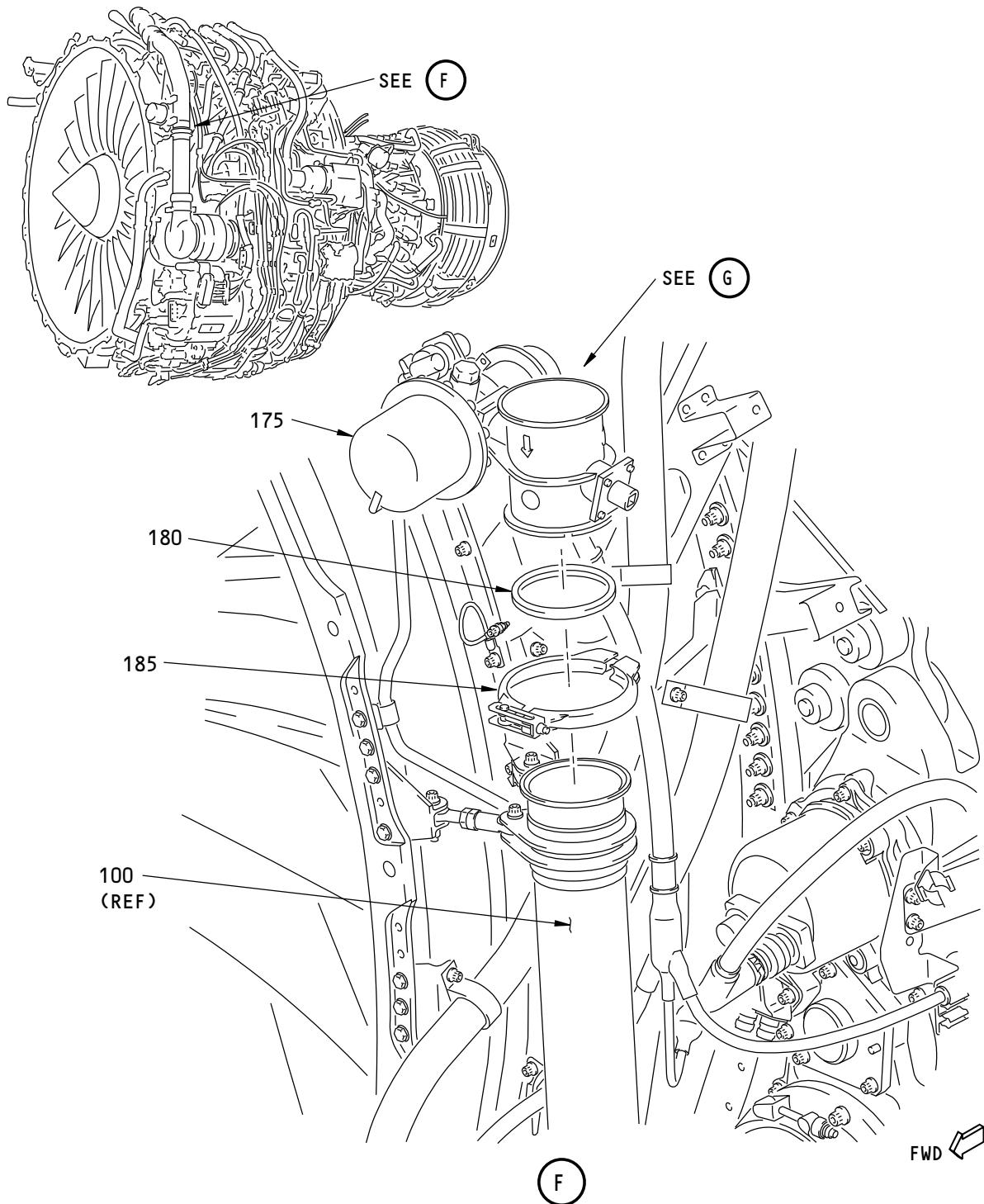
| ITEM NO. | PART NUMBER    | NOMENCLATURE   | UC  | QTY |
|----------|----------------|--|-----|-----|
| 25-1     |                | <b>STARTER VALVE AND DUCT INSTALLATION (FIGURE 25-1, SHEET 4)</b>  |     |     |
| 125      | BACB30PN4-14   | LUBRICATE THREADS AND SHANK OF BOLTS (125) WITH Never-Seez NSBT compound, D00006 (C1).   |     | 2   |
| C1       | D00006         | <ul style="list-style-type: none"> <li>. BOLT</li> <li>. NEVER SEEZ NSBT-8N COMPOUND</li> </ul>  | CON | AR  |
|          |                | SECURE LINKS (10) TO DUCT ASSY (100) WITH BOLTS (125), WASHERS (130) AND (140), BUSHINGS (135) AND NUTS (145).   |     |     |
|          |                | <b>NOTE:</b> MAKE SURE LINK(S) DO NOT APPLY PRELOAD TO ADJACENT DUCT OR SUPPORT HARDWARE. IF NECESSARY, ADJUST LINK(S) BY LOOSENING JAMNUT ON EACH LINK TO FREE ROD END. ADJUST AS NECESSARY AND RETIGHTEN JAMNUT.                   |     |     |
| 130      | BACW10BP4ACU   | . WASHER (CSK) (UNDER BOLTHEAD)  |     | 2   |
| 135      | BACB28AK04-030 | . BUSHING  |     | 2   |
| 140      | NAS1149C0432R  | . WASHER (UNDER NUT)   |     | 2   |
| 145      | AS3485-10      | . NUT  |     | 2   |
|          |                | <b>CAUTION:</b> BEFORE TIGHTENING NUT, MAKE SURE BUSHING IS FULLY ENGAGED.   |     |     |
|          |                | TIGHTEN BOLTS (125) TO 50-75 POUND-INCHES (5.6-8.5 NEWTON METERS).   |     |     |
|          |                | APPLY MS20995NC32 lockwire, G01912 (C2) OR safety cable kit, G50375 (C3) BETWEEN JAMNUT AND FEMALE SIDE OF LINKS (10).   |     |     |
| C2       | G01912         | . MS20995NC32 LOCKWIRE   | CON | AR  |
| C3       | G50375         | . SAFETY CABLE KIT   | CON | 2   |
|          |                | ORIENT HEAD OF COUPLING (110) UNTIL LATCH FACES FORWARD. TIGHTEN COUPLING (110) TO TORQUE SPECIFIED ON PART. LIGHTLY TAP OUTER SURFACE OF COUPLING (110) WITH NON-METALLIC MALLET. RETIGHTEN COUPLING (110) TO TORQUE GIVEN ON PART. |     |     |

**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 9

Jun 15/2016

D633A106-AKS



F04420 S00041153939\_V1

**Starter Valve and Duct Installation**  
**Figure 25-1 (Sheet 5)**

**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

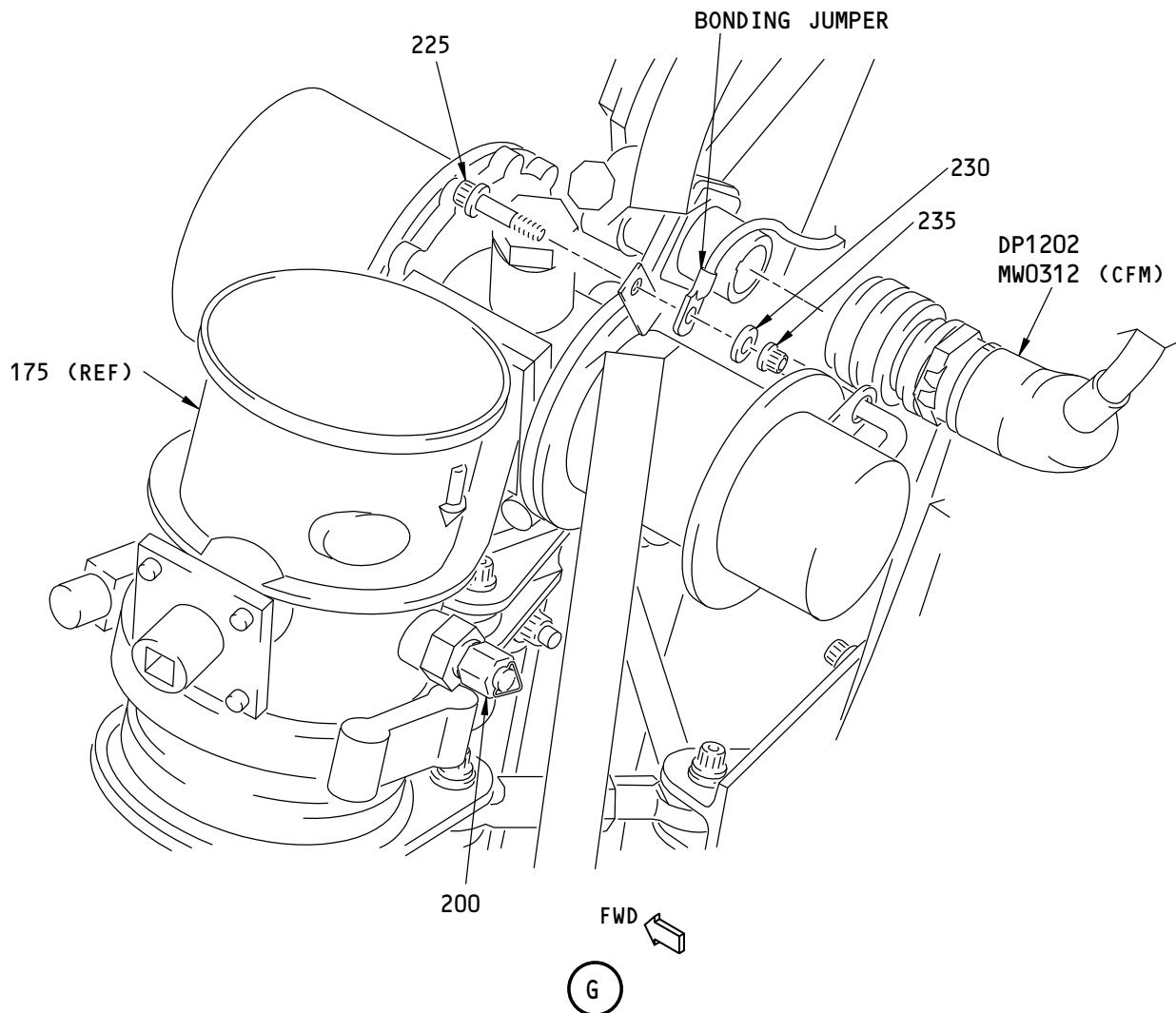
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 25-1     |              | <b>STARTER VALVE AND DUCT INSTALLATION<br/>(FIGURE 25-1, SHEET 5)</b><br><br>ATTACH SEAL (180) ON BOTTOM PORT OF START VALVE (175) AND INSTALL VALVE ON DUCT ASSY (100). MAKE SURE KEY-SLOT IN VALVE FLANGE MATES WITH KEY ON DUCT FLANGE.<br><br><b>CAUTION:</b> DO NOT TORQUE COUPLING TO MORE THAN THAT SPECIFIED ON THE PART. OVERTORQUING OF THE COUPLING CAN CAUSE DAMAGE TO START VALVE.<br><br>SECURE START VALVE (175) TO DUCT ASSY (100) WITH COUPLING (185). TIGHTEN COUPLING (185) TO TORQUE SPECIFIED ON PART. LIGHTLY TAP OUTER SURFACE OF COUPLING (185) WITH NON-METALLIC MALLET. RETIGHTEN COUPLING (185) TO TORQUE GIVEN ON PART. |     |     |
| 175      | 3289630-2    | . START VALVE (V59364) (SPEC S332A002-2)  | VEN | 1   |
| 180      | AS1895-7-300 | . SEAL  |     | 1   |
| 180      | AS1895/7-300 | . SEAL (OPTIONAL TO AS1895-7-300)   | OPT | -   |
| 185      | 30645-300    | . COUPLING (V15284)   |     | 1   |
| 185      | VR1030-300   | . COUPLING (V14242) (OPTIONAL TO 30645-300)   | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 11

Jun 15/2016

D633A106-AKS



F04421 S00041153940\_V1

**Starter Valve and Duct Installation**  
**Figure 25-1 (Sheet 6)**

**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 12

Jun 15/2016

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**POWERPLANT BUILDUP MANUAL**

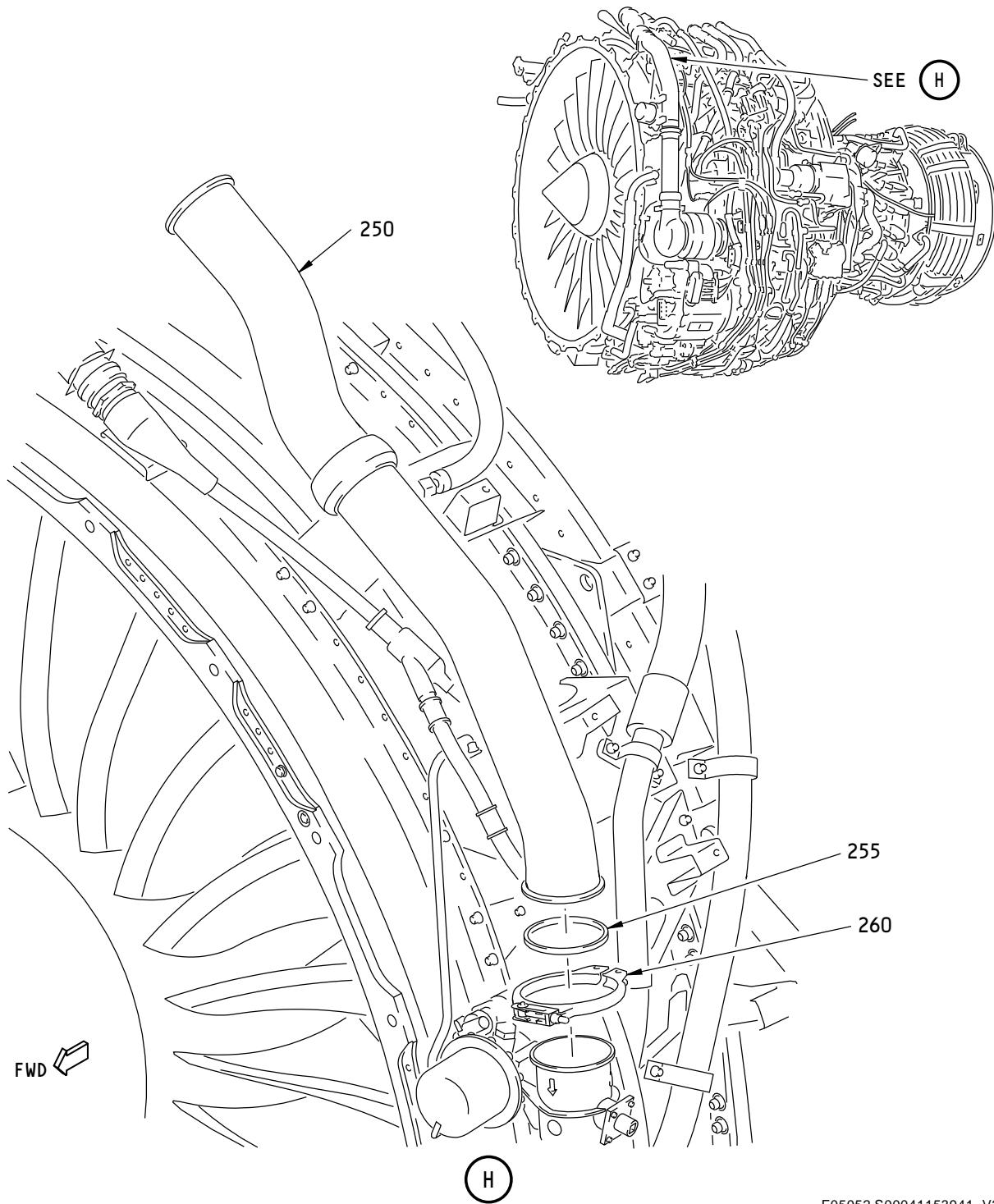
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 25-1     |               | <b>STARTER VALVE AND DUCT INSTALLATION (FIGURE 25-1, SHEET 6)</b><br><br>MAKE SURE PRESSURE CAP IS INSTALLED ON DOWNSTREAM SENSE CONNECTION OF START VALVE. IF CAP IS MISSING, INSTALL ITEM (200).  |     |     |
| 200      | MS21914-4J    | . PRESSURE CAP (1 REQD)   | REF | -   |
| 200      | BACC14AD04J   | . PRESSURE CAP (OPTIONAL TO MS21914-4J)   | OPT | -   |
|          |               | ATTACH BONDING JUMPER (REFERENCED IN BRACKET INSTALLATION - UPPER LEFT FAN CASE/Figure 4-1) FROM FLG B1 TO START VALVE (175) WITH ITEMS (225) THRU (235).   |     |     |
| 225      | BACB30ZF3-06  | . BOLT  |     | 1   |
| 230      | NAS1149C0316R | . WASHER (UNDER NUT)  |     | 1   |
| 235      | AS3485-09     | . NUT   |     | 1   |
|          |               | TIGHTEN BOLT (225) TO 50-56 POUNDS-INCHES (5.6-6.3 NEWTON METERS).  |     |     |
|          |               | CHECK RESISTANCE BETWEEN START VALVE HOUSING AND ENGINE BRACKET. MAX RESISTANCE IS 0.008 OHMS.  |     |     |
|          |               | <b>CAUTION:</b> DO NOT OVERTIGHTEN THE PLUG COUPLING RING. DO NOT USE WATER PUMP PLIERS, PIPE WRENCHES OR VISE GRIPS TO TIGHTEN THE COUPLING RING OR DAMAGE TO THE ELECTRICAL CONNECTOR CAN OCCUR.  |     |     |
|          |               | CONNECT MW0312 ELECTRICAL CONNECTOR, DP1202, TO START VALVE. TURN KNURLED COUPLING RING WHILE WIGGLING BACKSHELL ASSEMBLY. AFTER FULLY SEATING COUPLING RING, USE SOFT-JAWED PLIERS OR STRAP WRENCH TO TIGHTEN COUPLING RING AN ADDITIONAL 1/8 TURN OR UNTIL PLIER SLIPPAGE OCCURS. |     |     |

**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Starter Valve and Duct Installation  
Figure 25-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 25-1

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 25-1     |              | <b>STARTER VALVE AND DUCT INSTALLATION<br/>(FIGURE 25-1, SHEET 7)</b><br><br>INSTALL SEAL (255) IN BOTTOM END OF DUCT ASSY (250).<br>POSITION DUCT (250) ON TOP PORT OF START VALVE AND<br>LOOSELY SECURE WITH COUPLING (260).<br><br><b>NOTE:</b> DO NOT TIGHTEN COUPLING AT THIS TIME. |     |     |
| 250      | 332A2310-4   | . DUCT ASSY  |     | 1   |
| 255      | AS1895-7-300 | . SEAL   |     | 1   |
| 255      | AS1895/7-300 | . SEAL (OPTIONAL TO AS1895-7-300)  | OPT | -   |
| 260      | 30645-300    | . COUPLING (V15284)  |     | 1   |
| 260      | VR1030-300   | . COUPLING (V14242) (OPTIONAL TO 30645-300)  | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 15

Jun 15/2016

D633A106-AKS

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**Starter Valve and Duct Installation**  
**Figure 25-1 (Sheet 8)**

**71-00-02**

**P/P BUILDUP FIGURE 25-1**

Page 16

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 25-1     |             | STARTER VALVE AND DUCT INSTALLATION<br>(FIGURE 25-1, SHEET 8)<br>THIS SHEET NOT USED |    |     |

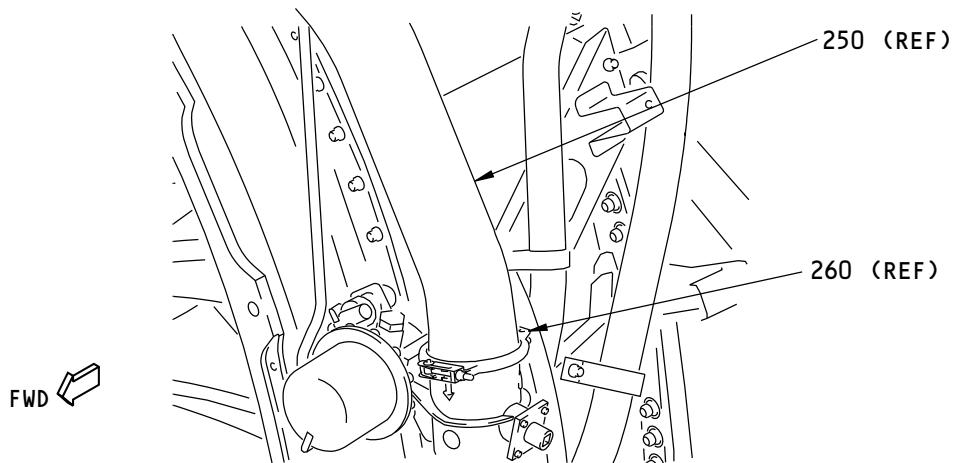
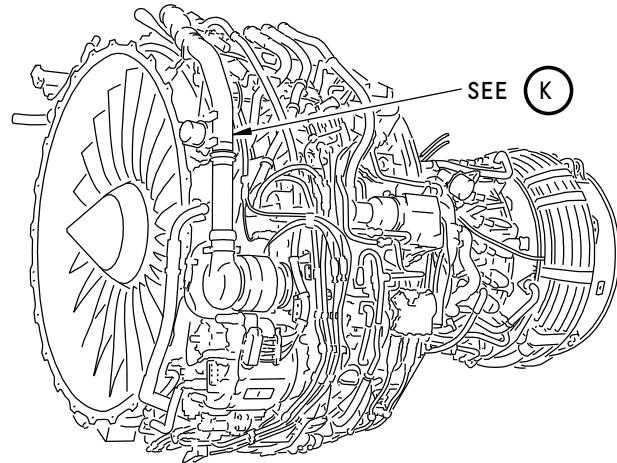
**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 17

Jun 15/2016

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Starter Valve and Duct Installation  
Figure 25-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 25-1

Page 18

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 25-1     |             | <p><b>STARTER VALVE AND DUCT INSTALLATION<br/>(FIGURE 25-1, SHEET 9)</b></p> <p><b>CAUTION:</b> DO NOT TORQUE COUPLING TO MORE THAN THAT SPECIFIED ON THE PART. OVERTORQUING OF THE COUPLING CAN CAUSE DAMAGE TO START VALVE.</p> <p>ORIENT HEAD OF COUPLING (260) UNTIL LATCH FACES FORWARD. TIGHTEN COUPLING (260) TO TORQUE SPECIFIED ON PART. LIGHTLY TAP OUTER SURFACE OF COUPLING (260) WITH NON-METALLIC MALLET. RETIGHTEN COUPLING (260) TO TORQUE GIVEN ON PART.</p> |    |     |

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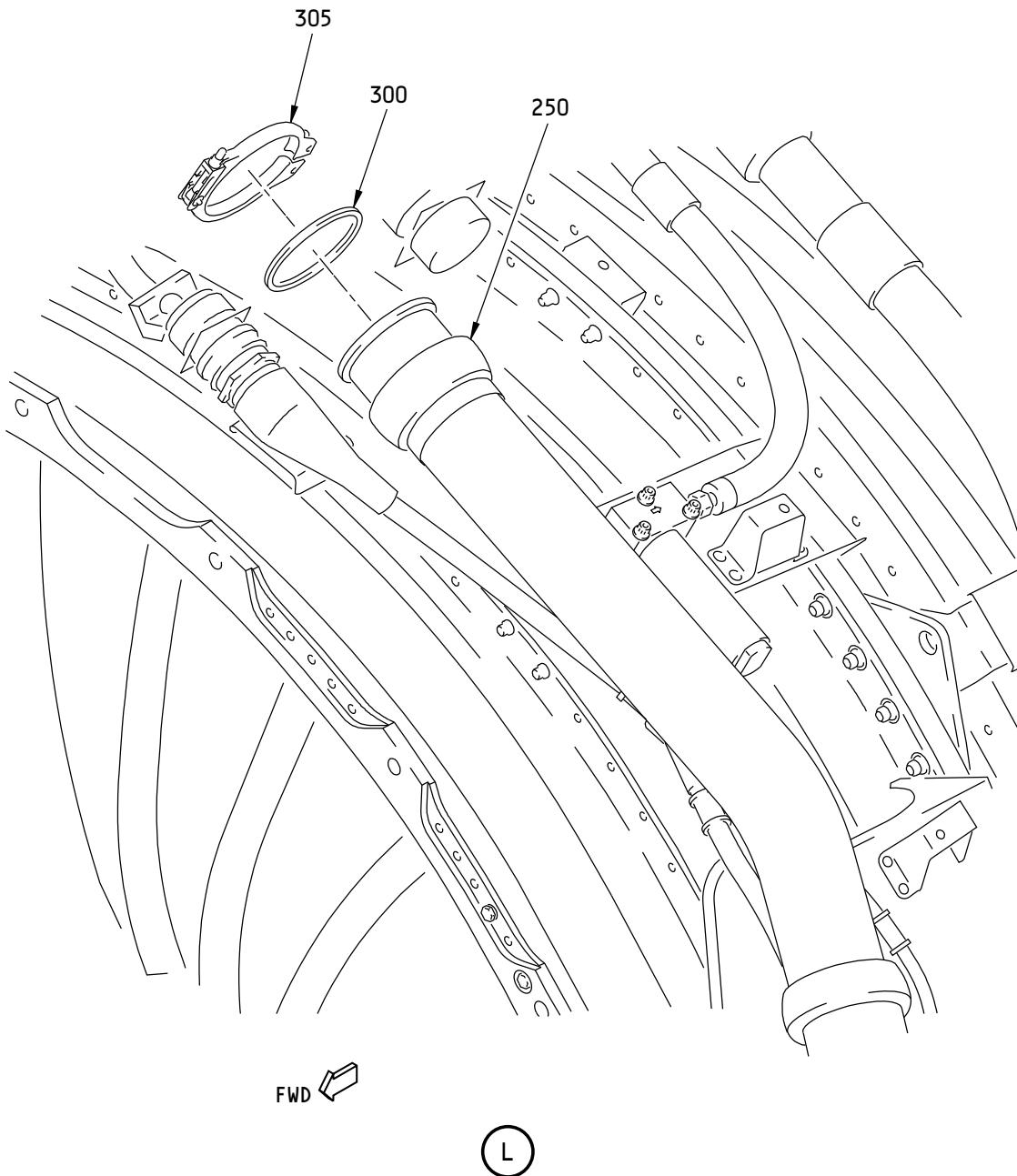
**P/P BUILDUP FIGURE 25-1**

Page 19

Jun 15/2016

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**Starter Valve and Duct Installation  
Figure 25-1 (Sheet 10)****71-00-02****P/P BUILDUP FIGURE 25-1**

Page 20

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 25-1     |              | <b>STARTER VALVE AND DUCT INSTALLATION<br/>(FIGURE 25-1, SHEET 10)</b><br><br>PUT ITEMS (300) AND (305) IN A BAG AND SECURE TO DUCT ASSY (250). |     |     |
| 300      | AS1895-7-300 | . SEAL  |     | 1   |
| 300      | AS1895/7-300 | . SEAL (OPTIONAL TO AS1895-7-300)   | OPT | -   |
| 305      | 30645-300    | . COUPLING (V15284)   |     | 1   |
| 305      | VR1030-300   | . COUPLING (V14242) (OPTIONAL TO 30645-300)   | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 25-1**

Page 21

Jun 15/2016

D633A106-AKS

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**FIGURE 27-1**

**INLET COWL TAI SYSTEM INSTALLATION**

**REF QEC TASK NO.: 27**

**REF DWG: 332A2300**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

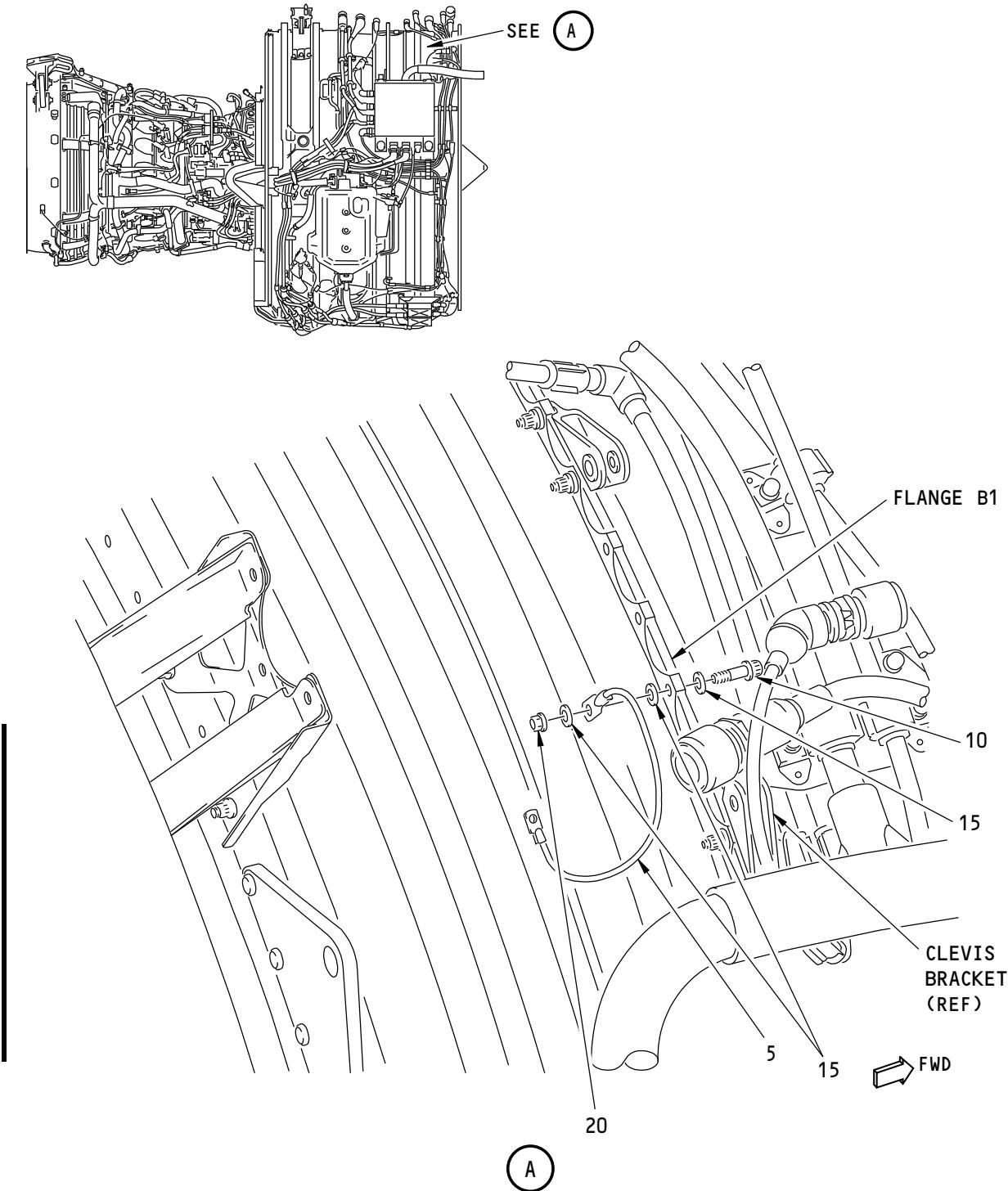
**P/P BUILDUP FIGURE 27-1**

Page 1

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

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Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 27-1

Page 2

Jun 15/2016

D633A106-AKS

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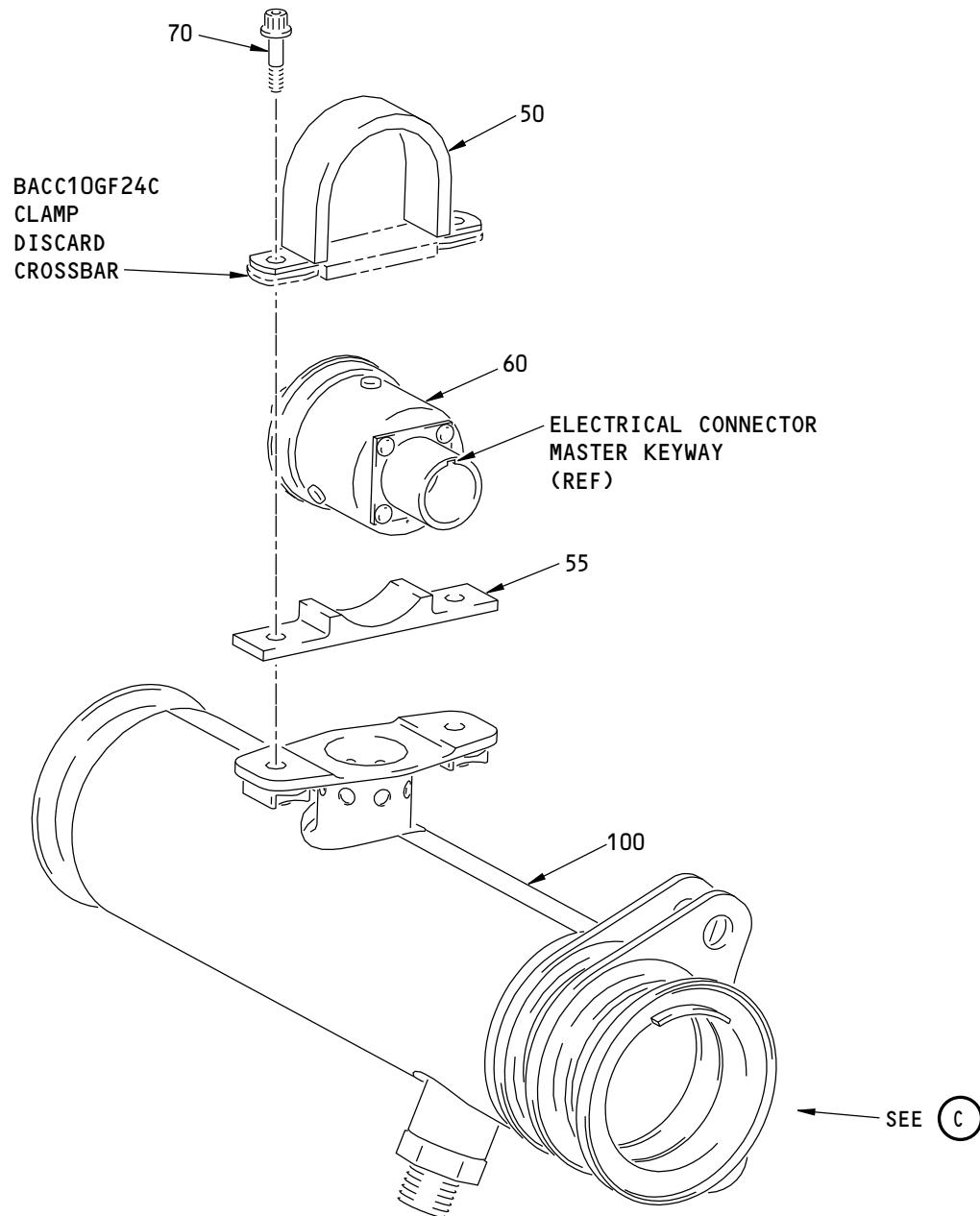
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 27-1     |               | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 1)</b><br>LOCATE 2ND HOLE UP FROM LOWER CLEVIS BRACKET ON FLANGE B1. USE abrasive mat, G00251 (C1) TO REMOVE ANODIZED COATING AROUND HOLE. CONTINUE UNTIL BRIGHT ALUMINUM BONDING SURFACE IS VISIBLE. AFTER COATING HAS BEEN REMOVED, CLEAN SURFACE OF FLANGE AND MATING SURFACE OF BONDING JUMPER (5) WITH alcohol, B00130 (C2).<br><b>NOTE:</b> REMOVE ONLY A MINIMUM AMOUNT OF ALUMINUM. |     |     |
| 5        | BACJ40AC54-9  | . BONDING JUMPER  |     | 1   |
| C1       | G00251        | . ABRASIVE MAT  | CON | AR  |
| C2       | B00130        | . ALCOHOL   | CON | AR  |
|          |               | ATTACH BONDING JUMPER (5) TO FAN CASE FLANGE B1 USING BOLT (10), WASHERS (15) AND NUT (20). ORIENT LUG ON BONDING JUMPER (5) TO 12 O'CLOCK POSITION.  |     |     |
|          |               | <b>NOTE:</b> INSTALL A WASHER UNDER THE BOLT HEAD, UNDER THE BONDING JUMPER AND UNDER THE NUT.  |     |     |
| 10       | BACB30ZF4-10  | . BOLT (BOLT HEAD FWD)  |     | 1   |
| 15       | NAS1149D0416H | . WASHER  |     | 3   |
| 20       | BACN10YR4CD   | . NUT (AFT SIDE)  |     | 1   |
|          |               | TIGHTEN BOLT (10) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |     |     |
|          |               | APPLY A FILLET SEAL OF sealant, A00803 (C4) OR sealant, A50096 (C5) OR adhesive, A00027 (C6) AROUND BONDING JUMPER (5) AND BOLT (10). IF sealant, A00803 (C4) IS USED, APPLY Dapco No. 1-100 primer, C00944 (C3) BEFORE SEALANT APPLICATION.  |     |     |
| C3       | C00944        | . DAPCO NO. 1-100 PRIMER  | CON | AR  |
| C4       | A00803        | . SEALANT   | CON | AR  |
| C5       | A50096        | . SEALANT   | CON | AR  |
| C6       | A00027        | . ADHESIVE  | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 3

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

## PREFERRED CONFIGURATION

B

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Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 27-1

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 27-1     |               | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 2)</b>   |     |     |
| 50       | BACC10GF24CT  | <u>PREFERRED CONFIGURATION:</u><br>REMOVE CROSSBAR FROM ATTACHMENT FOOT OF CLAMP (50) AND DISCARD. IF CROSSBAR IS ATTACHED BY A RIVET, REMOVE RIVET BY SQUEEZING RIVET RING WITH PLIERS.<br>. CLAMP<br>ATTACH PRESSURE SWITCH (60) TO DUCT ASSY (100) USING CLAMP (50), BRACKET SADDLE (55) AND BOLTS (70). IF RIVET WAS REMOVED FROM OPT CLAMP (50), INSTALL WASHERS (75) UNDER BOLTS (70).<br><u>NOTE:</u> INSTALL PRESSURE SWITCH SUCH THAT ELECTRICAL CONNECTOR MASTER KEYWAY IS FARTHEST FROM DUCT. | 1   |     |
| 55       | 332A1325-1    | . BRACKET SADDLE   |     | 1   |
| 60       | 21SN41-52     | . PRESSURE SWITCH (V02750)   | VEN | 1   |
| 70       | BACB30ZF3-08  | . BOLT   |     | 2   |
| 75       | NAS1149C0363R | . WASHER (2 REQD)* <sup>[1]</sup>  | OPT | -   |
| 100      | 332A2390-48   | . DUCT ASSY<br><br>TIGHTEN BOLTS (70) TO 28-32 POUND-INCHES (3.16-3.62 NEWTON METERS).   |     | 1   |

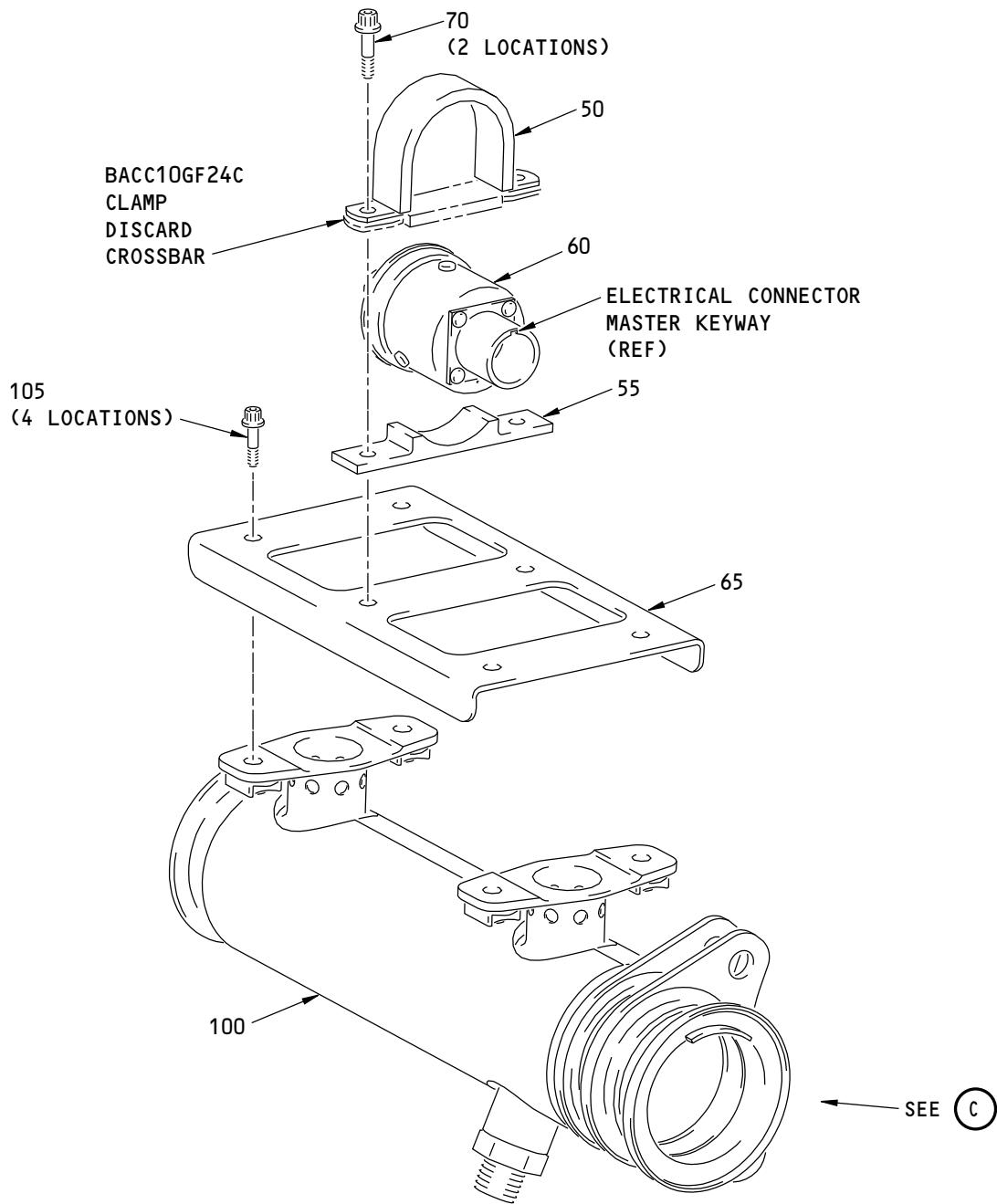
\*[1] ITEM NOT ILLUSTRATED

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 5

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

## OPTIONAL CONFIGURATION

B

E88907 S00041153949\_V1

Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 27-1

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC  | QTY |
|----------|---------------|--|-----|-----|
| 27-1     |               | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 3)</b><br><br><u>OPTIONAL CONFIGURATION:</u><br>REMOVE CROSSBAR FROM ATTACHMENT FOOT OF CLAMP (50) AND DISCARD. IF CROSSBAR IS ATTACHED BY A RIVET, REMOVE RIVET BY SQUEEZING RIVET RING WITH PLIERS.  |     |     |
| 50       | BACC10GF24CT  | . CLAMP (1 REQD)<br><br>POSITION BRACKET SADDLE (55) AND PRESSURE SWITCH (60) ON BRACKET (65) AND SECURE WITH CLAMP (50) AND BOLTS (70). IF RIVET WAS REMOVED FROM OPT CLAMP (50), INSTALL WASHERS (75) UNDER BOLTS (70).<br><br><u>NOTE:</u> INSTALL PRESSURE SWITCH SUCH THAT ELECTRICAL CONNECTOR MASTER KEYWAY IS FARTHEST FROM BRACKET. | OPT | -   |
| 55       | 332A1325-1    | . BRACKET SADDLE (1 REQD)  | OPT | -   |
| 60       | 21SN41-52     | . PRESSURE SWITCH (V02750) (1REQD)   | OPT | -   |
| 65       | 332A2910-1    | . BRACKET (1 REQD)   | OPT | -   |
| 70       | BACB30ZF3-08  | . BOLT (2 REQD)  | OPT | -   |
| 75       | NAS1149C0363R | . WASHER (2 REQD)*[1]<br><br>TIGHTEN BOLTS (70) TO 28-32 POUND-INCHES (3.16-3.62 NEWTON METERS).<br><br>ATTACH BRACKET AND ATTACHING PARTS TO DUCT (100) WITH BOLTS (105).   | OPT | -   |
| 100      | 332A2390-3    | . DUCT ASSY (1 REQD)   | OPT | -   |
| 105      | BACB30ZF4-08  | . BOLT (4 REQD)<br><br>TIGHTEN BOLTS (105) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  | OPT | -   |

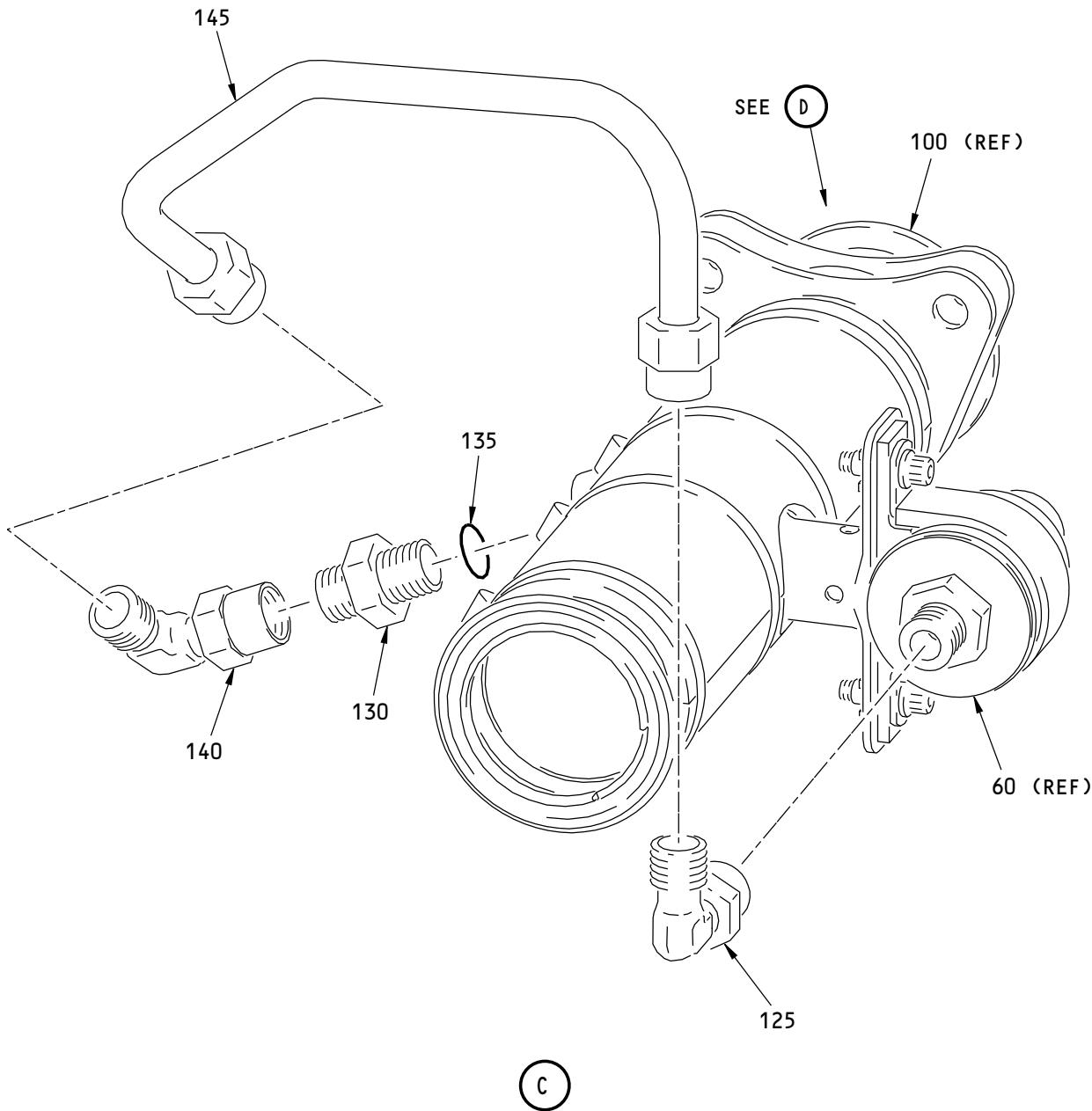
\*[1] ITEM NOT ILLUSTRATED

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 7

Jun 15/2016

D633A106-AKS



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Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 4)

**71-00-02**  
**P/P BUILDUP FIGURE 27-1**  
Page 8  
Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

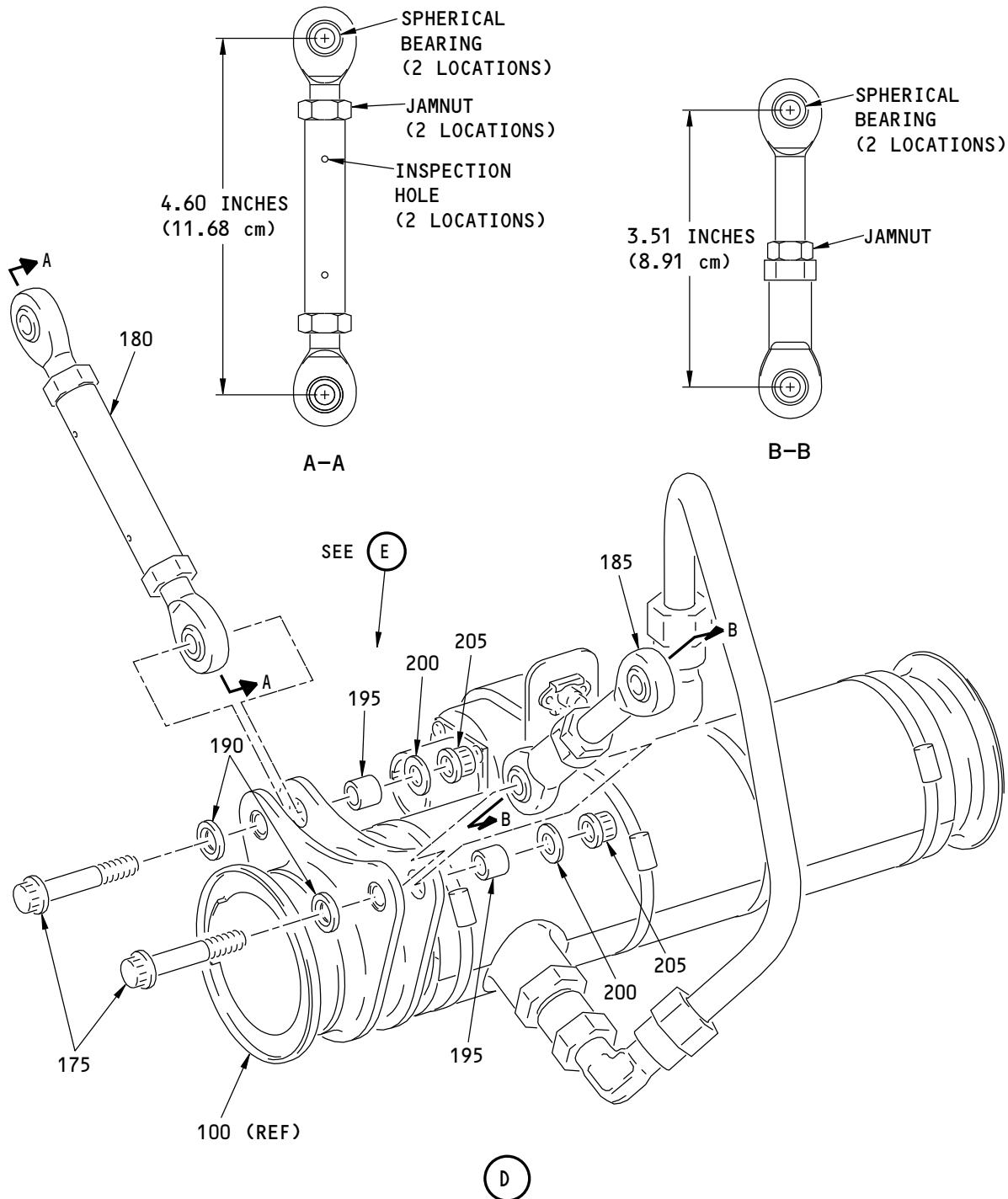
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 27-1     |               | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 4)</b>  |     |     |
| 125      | AS4138J0606   | INSTALL ELBOW (125) FINGER-TIGHT ON PRESSURE SWITCH (60).<br><br>. ELBOW  |     | 1   |
| 130      | AS5230J0606   | INSTALL O-RING (135) ON UNION (130) AND INSTALL UNION (130) ON DUCT (100). INSTALL ELBOW (140) ON UNION (130) FINGER-TIGHT. |     | 1   |
| 135      | 801A50-0006-A | . UNION   | VEN | 1   |
| 135      | 801A50-0006A  | . O-RING (V15284)   | OPT | -   |
| 140      | AS4138J0606   | . O-RING (V15284) (OPTIONAL TO 801A50-0006-A)   |     |     |
| 140      | AS4138J0606   | . ELBOW   |     | 1   |
| 145      | 332A2350-1    | CONNECT TUBE (145) BETWEEN ELBOWS (125) AND (140).<br><br>. TUBE ASSY   |     | 1   |
|          |               | TIGHTEN UNION (130), ELBOWS (125) AND (140) AND TUBE (145) TO 257-283 POUND-INCHES (29-32 NEWTON METERS).                   |     |     |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 9

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

E88910 S00041153951\_V1

Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 27-1

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

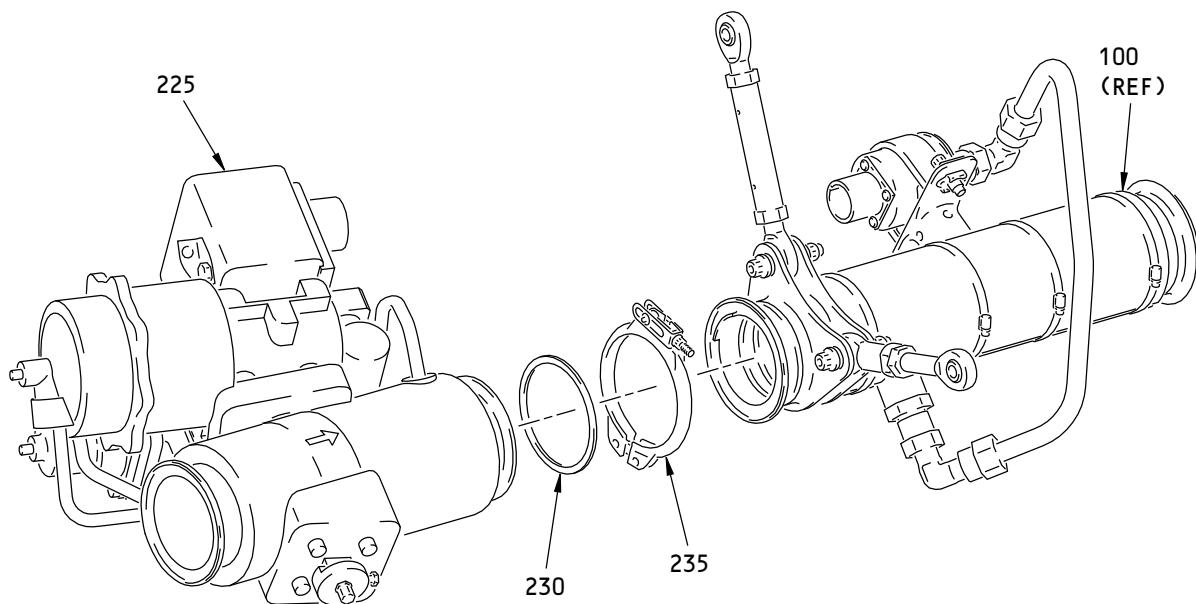
| ITEM NO. | PART NUMBER    | NOMENCLATURE   | UC  | QTY |
|----------|----------------|--|-----|-----|
| 27-1     |                | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 5)</b>   |     |     |
| C7       | D00006         | APPLY Never-Seez NSBT compound, D00006 (C7) TO THREADS AND SHANK OF BOLTS (175).   | CON |     |
| 175      | BACB30PN4-14   | <ul style="list-style-type: none"> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> <li>. BOLT</li> </ul> <p>LOOSEN JAMNUT OF LINK ASSY (180) TO FREE ROD END. ADJUST LINK ASSY TO 4.60 INCHES (11.68 CM) FROM CENTERLINE OF SPHERICAL BEARINGS. RETIGHTEN JAMNUT.</p> <p><b>NOTE:</b> MAKE SURE THREADS ARE VISIBLE THROUGH BOTH INSPECTION HOLES.</p> <p>LOOSEN JAMNUT OF LINK ASSY (185) TO FREE ROD END. ADJUST LINK TO 3.51 INCHES (8.91 CM) FROM CENTERLINE OF SPHERICAL BEARINGS. RETIGHTEN JAMNUT.</p> <p>ATTACH LINK ASSEMBLY (180) TO BOTTOM ATTACH POINT OF DUCT (100) (BOTTOM OF DUCT HAS TWO BOSSES) AND ATTACH LINK ASSEMBLY (185) TO TOP ATTACH POINT OF DUCT. USE ITEMS (175) AND (190) THRU (205).</p> <p><b>NOTE:</b> MAKE SURE BOLT HEAD FACES FORWARD.</p> | AR  | 2   |
| 180      | 332A2341-3     | . LINK ASSY  |     | 1   |
| 185      | 332A2341-2     | . LINK ASSY  |     | 1   |
| 190      | BACW10BP4ACU   | . WASHER (CSK) (UNDER BOLT)  |     | 2   |
| 190      | BACW10BP4CD    | . WASHER (OPTIONAL TO BACW10BP4ACU)  | OPT | -   |
| 195      | BACB28AK04-030 | . BUSHING  |     | 2   |
| 200      | NAS1149C0432R  | . WASHER (UNDER NUT)   |     | 2   |
| 205      | AS3485-10      | . NUT  |     | 2   |
|          |                | TIGHTEN BOLTS (175) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS).   |     |     |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 11

Jun 15/2016

D633A106-AKS



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**Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 6)****71-00-02****P/P BUILDUP FIGURE 27-1**

Page 12

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

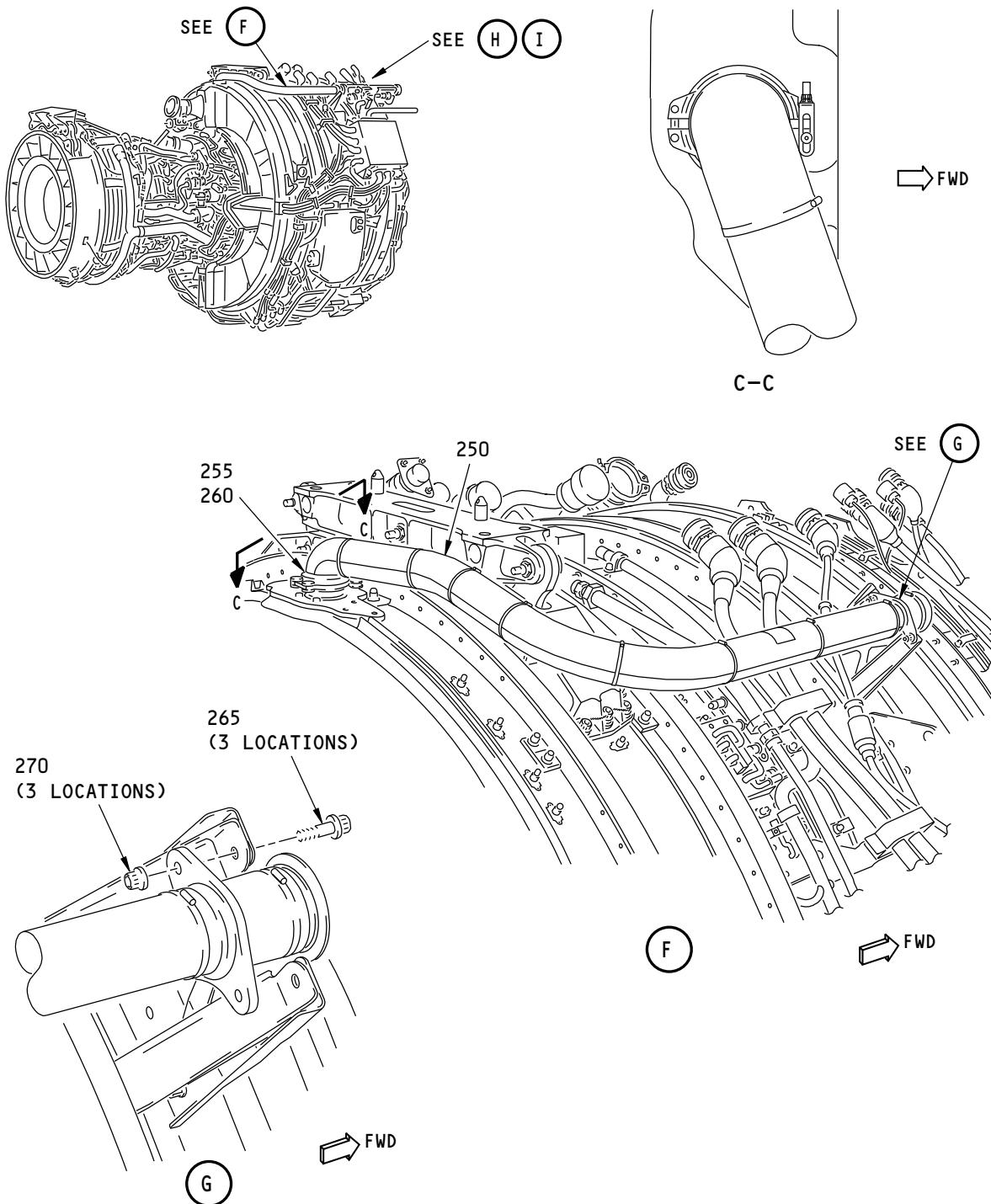
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 27-1     |              | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 6)</b><br><br>INSTALL SEAL (230) IN AFT FLANGE OF DUCT ASSY (100). ATTACH VALVE ASSEMBLY (225) TO DUCT ASSY (100) WITH COUPLING (235) FINGER TIGHT.<br><br><b>NOTE:</b> MAKE SURE TO ALIGN THE CLOCKING FEATURE BETWEEN THE VALVE AND THE DUCT.<br><br>ORIENT COUPLING TO MAXIMIZE CLEARANCE WITH ADJACENT EQUIPMENT. |     |     |
| 225      | 3215618-5    | . VALVE ASSEMBLY (V59364)   | VEN | 1   |
| 225      | 3215618-6    | . VALVE ASSEMBLY (V59364) (REPLACED BY 3215618-5)   | LTD | -   |
| 225      | 3215618-5    | . VALVE ASSEMBLY (V59364) (REPLACED BY 3215618-6)   | LTD | -   |
| 225      | 3215618-4    | . VALVE ASSEMBLY (V59364) (SPEC S332A239-4) (REPLACED BY 3215618-5)   | LTD | -   |
| 230      | AS1895-7-200 | . SEAL  |     | 1   |
| 230      | AS1895/7-200 | . SEAL (OPTIONAL TO AS1895-7-200)   | OPT | -   |
| 235      | AS1895-4-200 | . COUPLING  |     | 1   |
| 235      | AS1895/4-200 | . COUPLING (OPTIONAL TO AS1895-4-200)   | OPT | -   |
|          |              | TIGHTEN COUPLING (235) TO TORQUE SPECIFIED ON PART. LIGHTLY TAP OUTER SURFACE OF COUPLING WITH A NON-METALLIC MALLET. RETIGHTEN COUPLING TO TORQUE SPECIFIED ON PART.   |     |     |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 13

Jun 15/2016

D633A106-AKS



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**Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 7)**

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

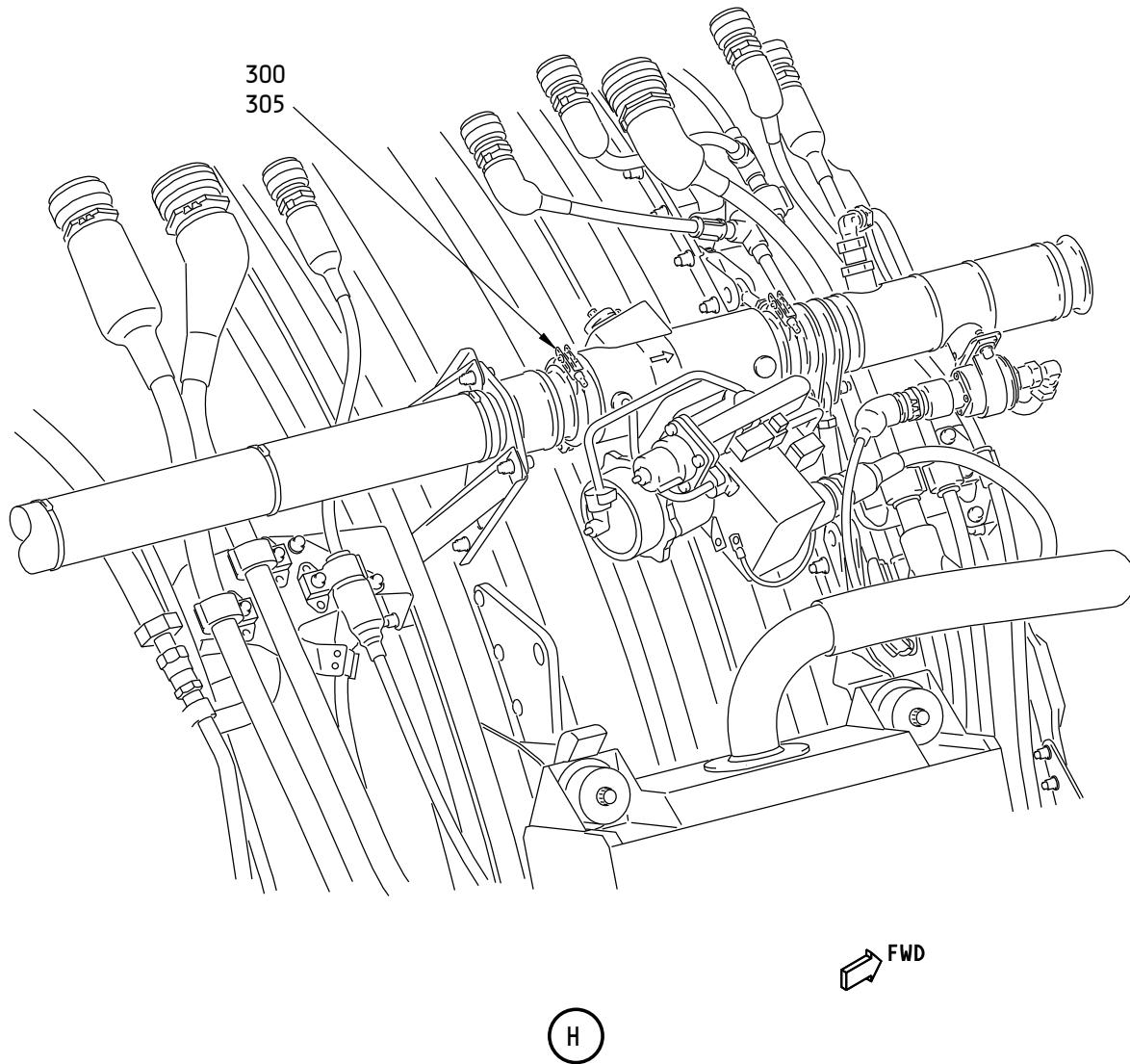
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 27-1     |              | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 7)</b> <p><b>CAUTION:</b> COUPLING MUST BE INSTALLED WITH NUT FACING FORWARD ON LEFT SIDE OF ENGINE. DAMAGE TO EQUIPMENT CAN OCCUR.</p> <p>POSITION DUCT ASSY (250) ON ENGINE FAN CASE. SECURE AFT END OF DUCT TO EXISTING TAI BIFUR UPR DUCT FLANGE WITH SEAL (255) AND COUPLING (260). SECURE FWD END OF DUCT TO ENGINE FAN CASE BRACKETS WITH BOLTS (265) AND NUTS (270).</p> <p><b>NOTE:</b> MAKE SURE COUPLING NUT IS ON LEFT SIDE (EITHER FORWARD OR AFT OF DUCT).</p> |     |     |
| 250      | 332A2390-12  | . DUCT ASSY  |     | 1   |
| 255      | AS1895-7-175 | . SEAL   |     | 1   |
| 255      | AS1895/7-175 | . SEAL (OPTIONAL TO AS1895-7-175)  | OPT | -   |
| 260      | AS1895-4-175 | . COUPLING   |     | 1   |
| 260      | AS1895/4-175 | . COUPLING (OPTIONAL TO AS1895-4-175)  | OPT | -   |
| 265      | BACB30ZF4-10 | . BOLT   |     | 3   |
| 270      | AS3485-10    | . NUT  |     | 3   |
|          |              | TIGHTEN COUPLING (260) TO TORQUE SPECIFIED ON PART. LIGHTLY TAP OUTER SURFACE OF COUPLING WITH A NON-METALLIC MALLET. RETIGHTEN COUPLING TO TORQUE SPECIFIED ON PART.  |     |     |
|          |              | TIGHTEN BOLTS (265) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).   |     |     |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 15

Jun 15/2016

D633A106-AKS



E88926 S00041153954\_V1

Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 8)

71-00-02

P/P BUILDUP FIGURE 27-1

Page 16

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

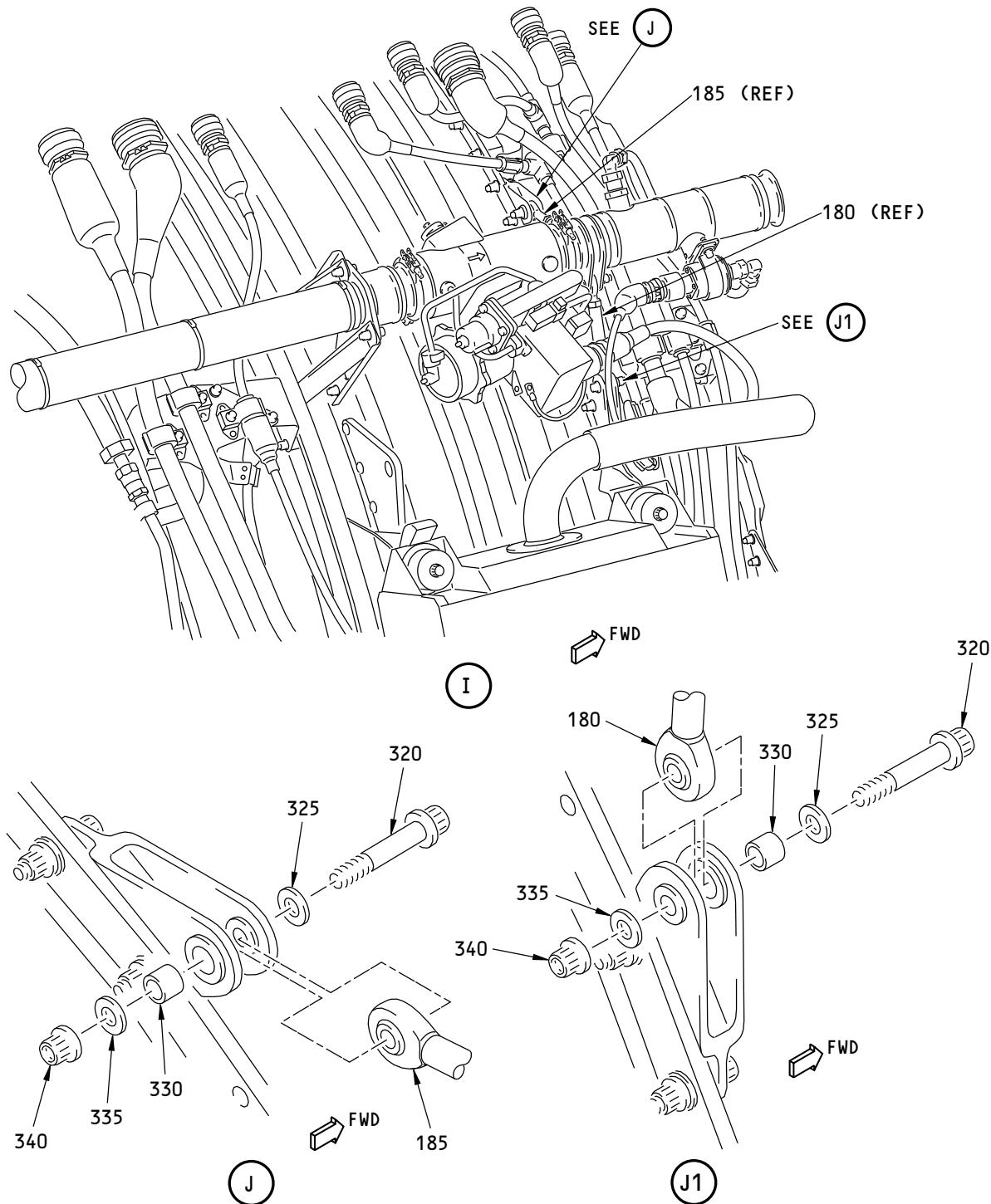
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 27-1     |              | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 8)</b><br><br>INSTALL SEAL (300) ON AFT FLANGE OF VALVE (225). POSITION VALVE (225)/DUCT ASSY (100) TO ENGINE FAN CASE AND LOOSELY SECURE TO AFT DUCT (250) WITH COUPLING (305). |     |     |
| 300      | AS1895-7-200 | . SEAL   |     | 1   |
| 300      | AS1895/7-200 | . SEAL (OPTIONAL TO AS1895-7-200)  | OPT | -   |
| 305      | AS1895-4-200 | . COUPLING   |     | 1   |
| 305      | AS1895/4-200 | . COUPLING (OPTIONAL TO AS1895-4-200)  | OPT | -   |
|          |              | ORIENT COUPLING (305) TO MAXIMIZE CLEARANCE WITH ADJACENT EQUIPMENT. TIGHTEN COUPLING (305) TO TORQUE SPECIFIED ON PART. LIGHTLY TAP OUTER SURFACE OF COUPLING WITH NON-METALLIC MALLET. RETIGHTEN COUPLING TO TORQUE SPECIFIED ON PART.       |     |     |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 17

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

G09700 S00041153955\_V1

Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 27-1

Page 18

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

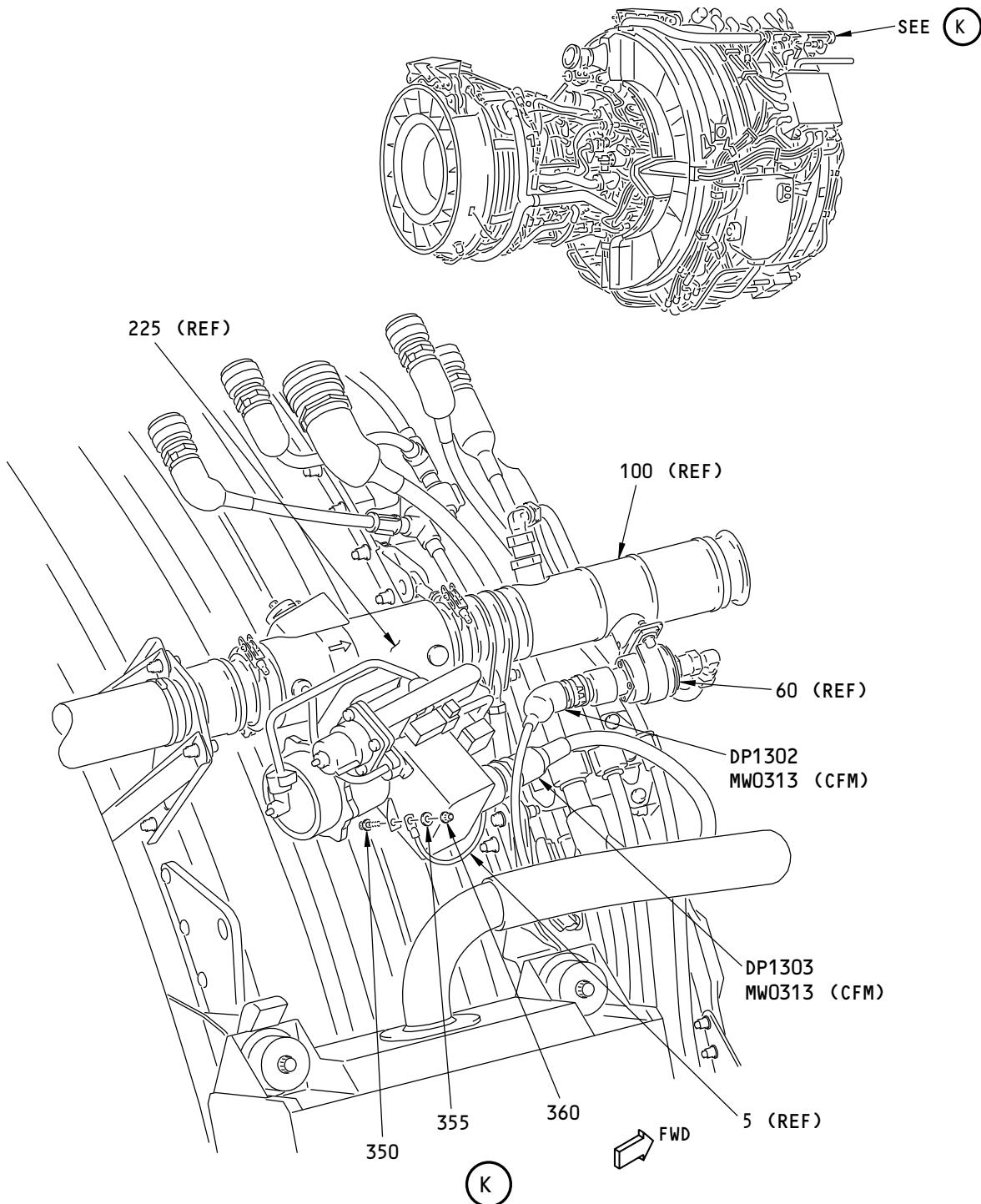
| ITEM NO. | PART NUMBER    | NOMENCLATURE  | UC  | QTY  |
|----------|----------------|---|-----|------|
| 27-1     |                | <b>INLET COWL TAI SYSTEM INSTALLATION (FIGURE 27-1, SHEET 9)</b>  |     |      |
| C7       | D00006         | APPLY Never-Seez NSBT compound, D00006 (C7) TO THREADS AND SHANK OF BOLTS (320).  | CON |      |
| 320      | BACB30PN4-14   | <ul style="list-style-type: none"> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> <li>. BOLT</li> </ul> SECURE LINKS (180) AND (185) TO ENGINE FAN CASE BRACKETS WITH ITEMS (320) THRU (340). <p><b>NOTE:</b> MAKE SURE NO PRELOAD FORCE EXISTS BETWEEN THE VALVE, DUCT AND ENGINE BRACKET. IF A PRELOAD FORCE EXISTS, FIRST MAKE SURE ALL COMPONENTS ARE INSTALLED CORRECTLY. THEN ADJUST LINKS (180) AND (185) LENGTHS (REF: Figure 27-1 (Sheet 5)PPBU-FIGURE).</p> | CON | AR 2 |
| 325      | BACW10BP4ACU   | <ul style="list-style-type: none"> <li>. WASHER (CSK) (UNDER BOLT)</li> </ul>   |     | 2    |
| 330      | BACB28AK04-030 | <ul style="list-style-type: none"> <li>. BUSHING</li> </ul>   |     | 2    |
| 335      | NAS1149C0432R  | <ul style="list-style-type: none"> <li>. WASHER (UNDER NUT)</li> </ul>  |     | 2    |
| 340      | AS3485-10      | <ul style="list-style-type: none"> <li>. NUT</li> </ul> TIGHTEN BOLTS (320) TO 50-80 POUND-INCHES (5.6-9.0 NEWTON METERS). <p>APPLY MS20995NC32 lockwire, G01912 (C8) OR safety cable kit, G50375 (C9) BETWEEN JAMNUT AND FEMALE SIDE OF LINK (180) AND LINK (185).</p>   |     | 2    |
| C8       | G01912         | <ul style="list-style-type: none"> <li>. MS20995NC32 LOCKWIRE</li> </ul>  | CON |      |
| C9       | G50375         | <ul style="list-style-type: none"> <li>. SAFETY CABLE KIT</li> </ul>  | CON | AR 2 |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 19

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 10)

71-00-02

P/P BUILDUP FIGURE 27-1

Page 20

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

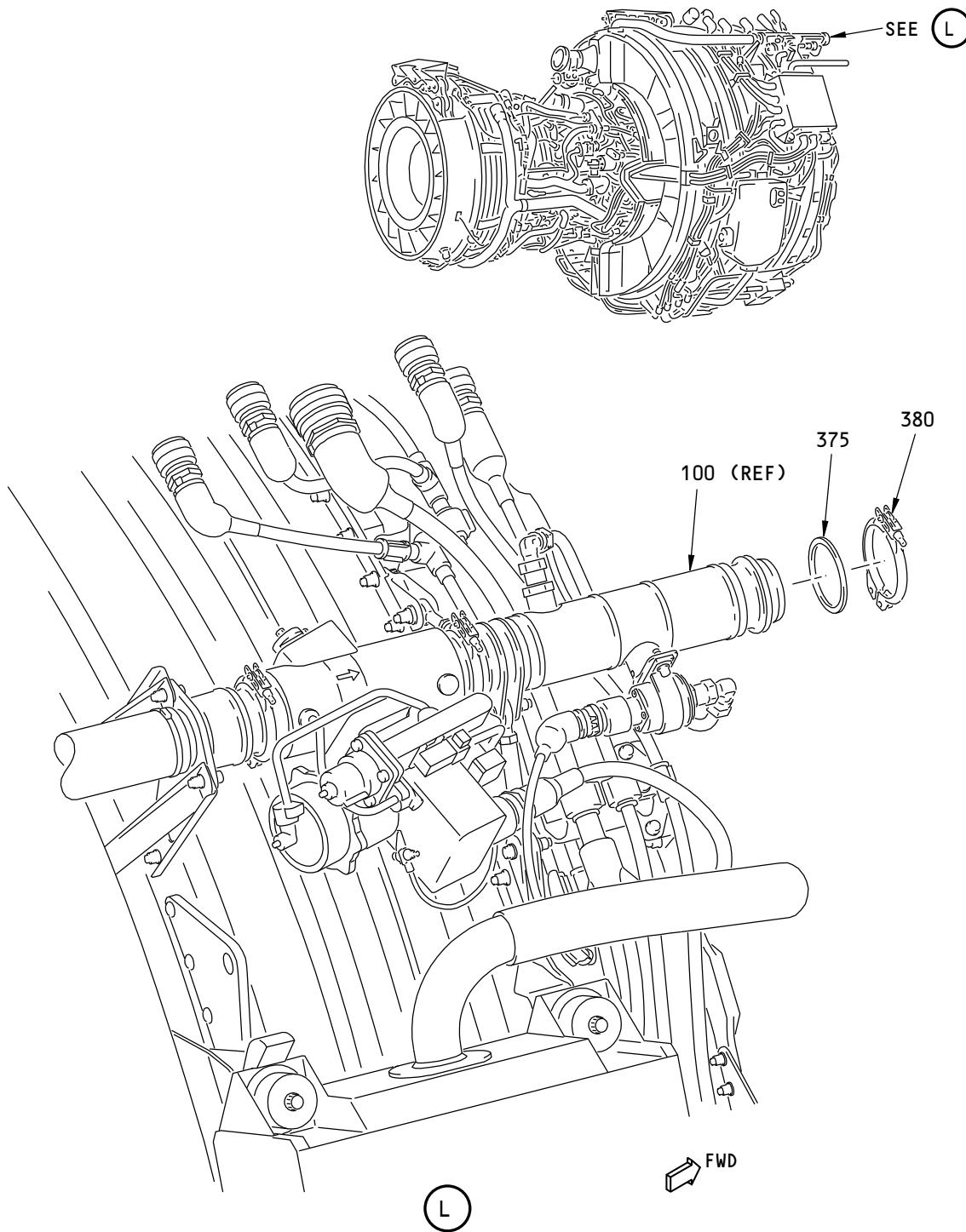
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 27-1     |               | <b>INLET COWL TAI SYSTEM INSTALLATION (FIGURE 27-1, SHEET 10)</b>   |     |     |
| C2       | B00130        | <p>CLEAN BONDING JUMPER TAB ON VALVE (225) WITH alcohol, B00130 (C2).</p> <p>. ALCOHOL</p> <p><b>CAUTION:</b> DO NOT LET THE BONDING JUMPER TOUCH THE VALVE OR ENGINE FAN CASE. DAMAGE TO THE FAN CASE CAN OCCUR.</p> <p>ATTACH BONDING JUMPER (5) TO TAB ON VALVE (225) USING BOLT (350), WASHER (355) AND NUT (360). ORIENT LUG ON BONDING JUMPER (5) TO REDUCE SLACK.</p>  | CON | AR  |
| 350      | BACB30ZF3-06  | . BOLT (BOLT HEAD DOWN)   |     | 1   |
| 355      | NAS1149C0316R | . WASHER (UNDER NUT)  |     | 1   |
| 360      | AS3485-09     | . NUT   |     | 1   |
|          |               | <p>TIGHTEN BOLT (350) TO 50-56 POUND-INCHES (5.6-6.3 NEWTON METERS).</p> <p>MEASURE RESISTANCE BETWEEN VALVE HOUSING AND ENGINE BRACKET. MAXIMUM PERMITTED RESISTANCE IS 0.008 OHMS.</p> <p><b>CAUTION:</b> DO NOT OVERTIGHTEN THE PLUG COUPLING RING. DO NOT USE WATER PUMP PLIERS, PIPE WRENCHES OR VISE GRIPS TO TIGHTEN THE COUPLING RING OR DAMAGE TO THE ELECTRICAL CONNECTOR CAN OCCUR.</p> <p>CONNECT MW0313 ELECTRICAL CONNECTOR, DP1302, TO PRESSURE SWITCH AND MW0313 ELECTRICAL CONNECTOR, DP1303, TO VALVE. TURN KNURLED COUPLING RING WHILE WIGGLING THE BACKSHELL ASSEMBLY. AFTER FULLY SEATING THE COUPLING RING, USE SOFT-JAWED PLIERS OR A STRAP WRENCH TO TIGHTEN THE COUPLING RING AN ADDITIONAL 1/8 TURN OR UNTIL PLIER SLIPPAGE OCCURS.</p> |     |     |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 21

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Inlet Cowl TAI System Installation  
Figure 27-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 27-1

Page 22

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 27-1     |              | <b>INLET COWL TAI SYSTEM INSTALLATION<br/>(FIGURE 27-1, SHEET 11)</b><br>PUT ITEMS (375 AND 380) IN A BAG AND SECURE TO DUCT ASSY (100).<br><b>NOTE:</b> ITEMS (375) AND (380) WILL BE INSTALLED DURING INLET COWL INSTALLATION (INLET COWL INSTALLATION/ Figure 33-1). |     |     |
| 375      | AS1895-7-200 | . SEAL  |     | 1   |
| 375      | AS1895/7-200 | . SEAL (OPTIONAL TO AS1895-7-200)   | OPT | -   |
| 380      | AS1895-4-200 | . COUPLING  |     | 1   |
| 380      | AS1895/4-200 | . COUPLING (OPTIONAL TO AS1895-4-200)   | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 27-1**

Page 23

Jun 15/2016

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**FIGURE 28-1**

**FIRE/OVERHEAT DETECTOR INSTALLATION**

**REF QEC TASK NO.: 28**

**REF DWG: 332A2500**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

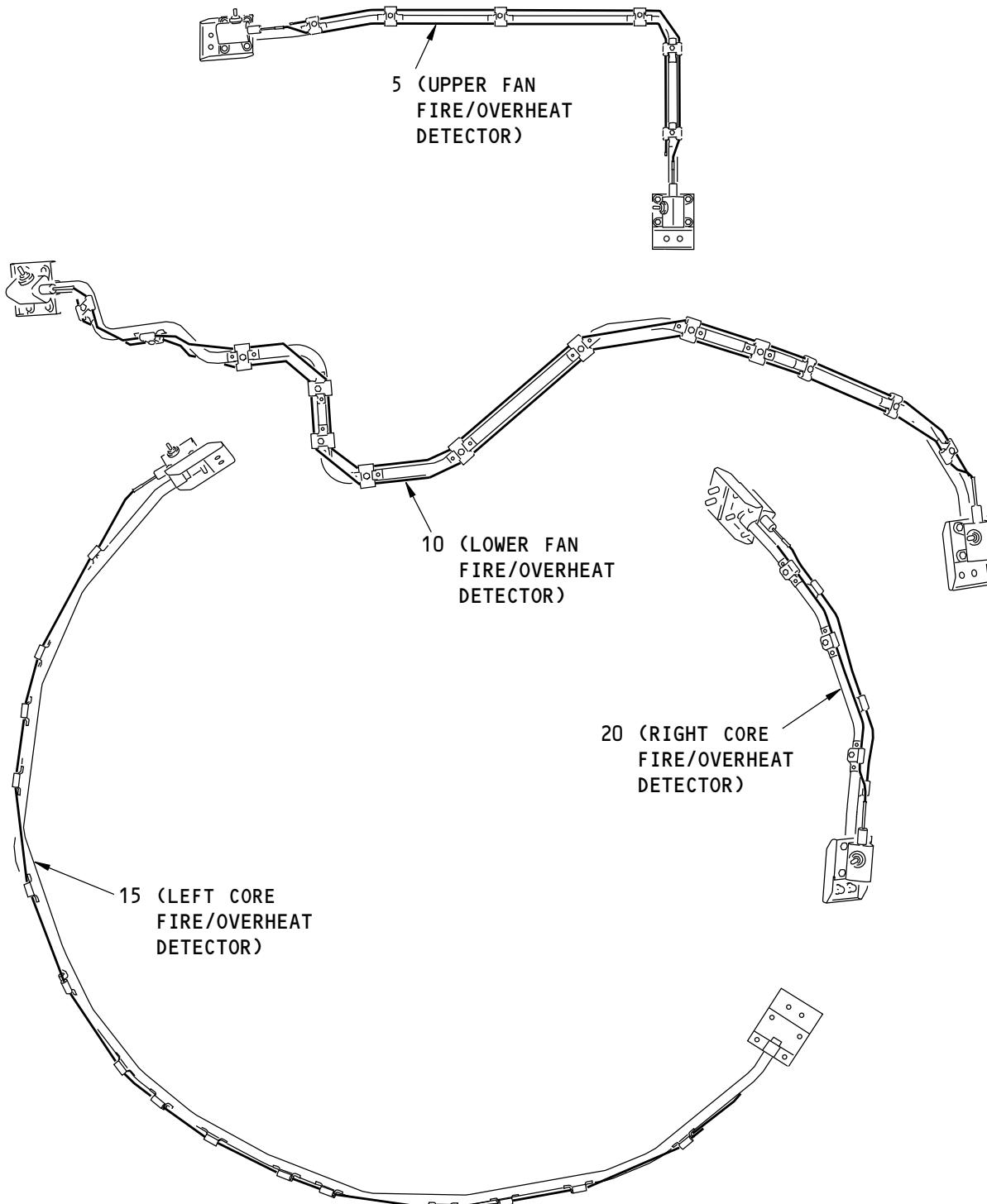
**P/P BUILDUP FIGURE 28-1**

Page 1

Jun 15/2016

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Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

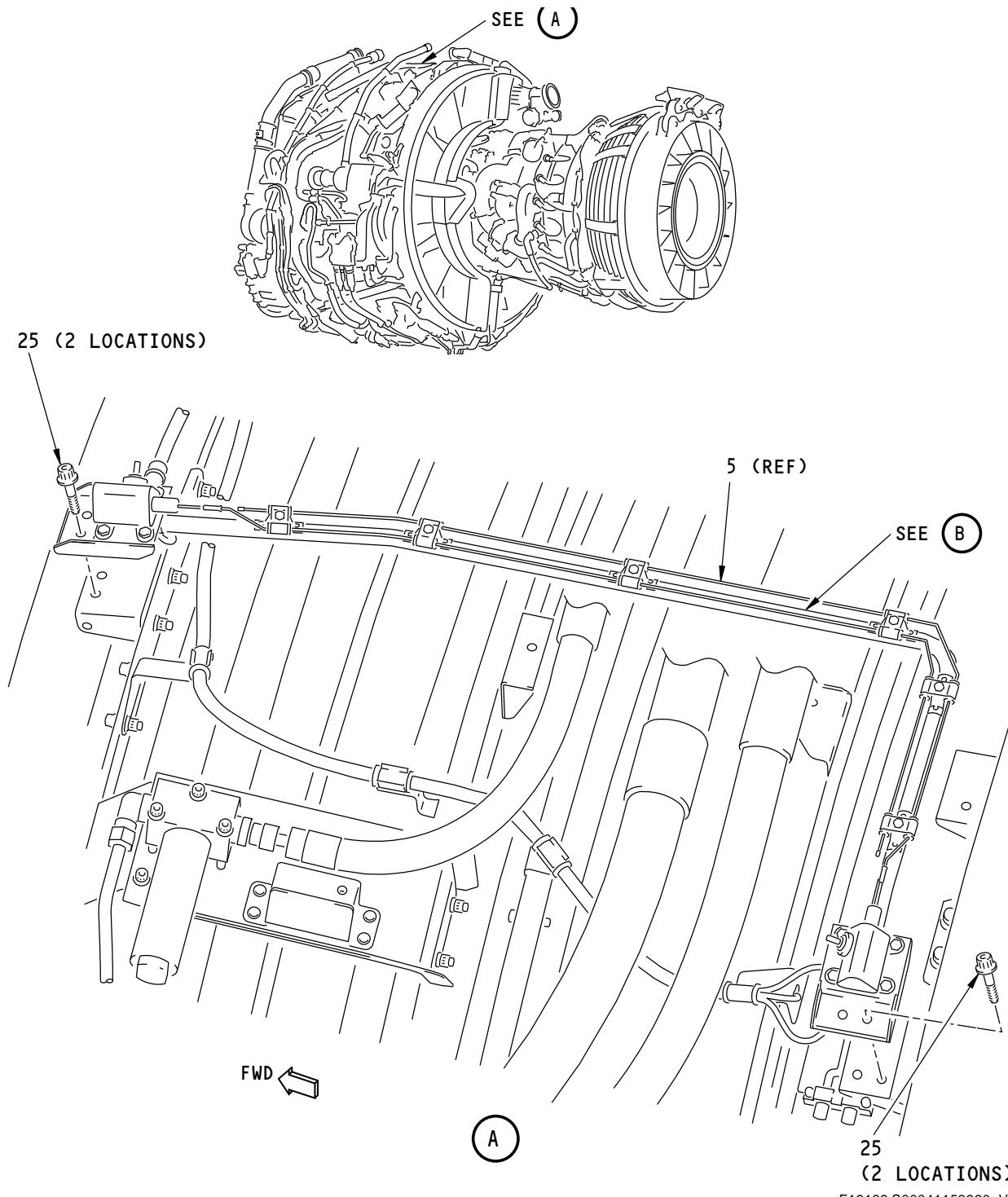
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 28-1     |             | <b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 28-1, SHEET 1)</b><br><br>BENCH TEST RESISTANCE OF DETECTORS (5), (10), (15) AND (20) FROM THE DETECTOR STUD TO THE MOUNTING BRACKET.<br>MAKE SURE RESISTANCE IS BETWEEN THE FOLLOWING RANGES:<br>DETECTOR (5) BETWEEN 5624 - 6218 (OHMS)<br>DETECTOR (10) BETWEEN 3734 - 4128 (OHMS)<br>DETECTOR (15) BETWEEN 2860 - 3162 (OHMS)<br>DETECTOR (20) BETWEEN 2347 - 2595 (OHMS) |     |     |
| 5        | 902864      | . FIRE DETECTOR, UPPER FAN (V25693) (SPEC S332T100-44)   | VEN | 1   |
| 10       | 902016-01   | . FIRE DETECTOR, LOWER FAN (V25693) (SPEC S332T100-30)   | VEN | 1   |
| 15       | 902862-01   | . FIRE DETECTOR, LEFT CORE (V25693) (SPEC S332T100-50) <sup>[3][5]</sup>   | VEN | 1   |
| 15       | 902862      | . FIRE DETECTOR, LEFT CORE (V25693) (SPEC S332T100-43) (REPLACED BY 902862-01) <sup>[4]</sup>  | LTD | -   |
| 20       | 902018-02   | . FIRE DETECTOR, RIGHT CORE (V25693) (SPEC S332T100-49) <sup>[3][5]</sup>  | VEN | 1   |
| 20       | 902018-01   | . FIRE DETECTOR, RIGHT CORE (V25693) (SPEC S332T100-38) (REPLACED BY 902018-02) <sup>[4]</sup>   | LTD | -   |
|          |             | IF DETECTOR DOES NOT TEST WITHIN SPECIFIED RANGE, REPLACE DETECTOR.  |     |     |
|          |             | *[3] ENGINES POST SB 737-26-1142   |     |     |
|          |             | *[4] ENGINES PRE SB 737-26-1142  |     |     |
|          |             | *[5] USED ONLY WITH POST SB CFM56-7B-72-0981 (WIRE HARNESES WITH BRACKETS).  |     |     |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 3

Jun 15/2016

D633A106-AKS



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**Fire/Overheat Detector Installation**  
**Figure 28-1 (Sheet 2)**

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 4

Jun 15/2016

D633A106-AKS

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**POWERPLANT BUILDUP MANUAL**

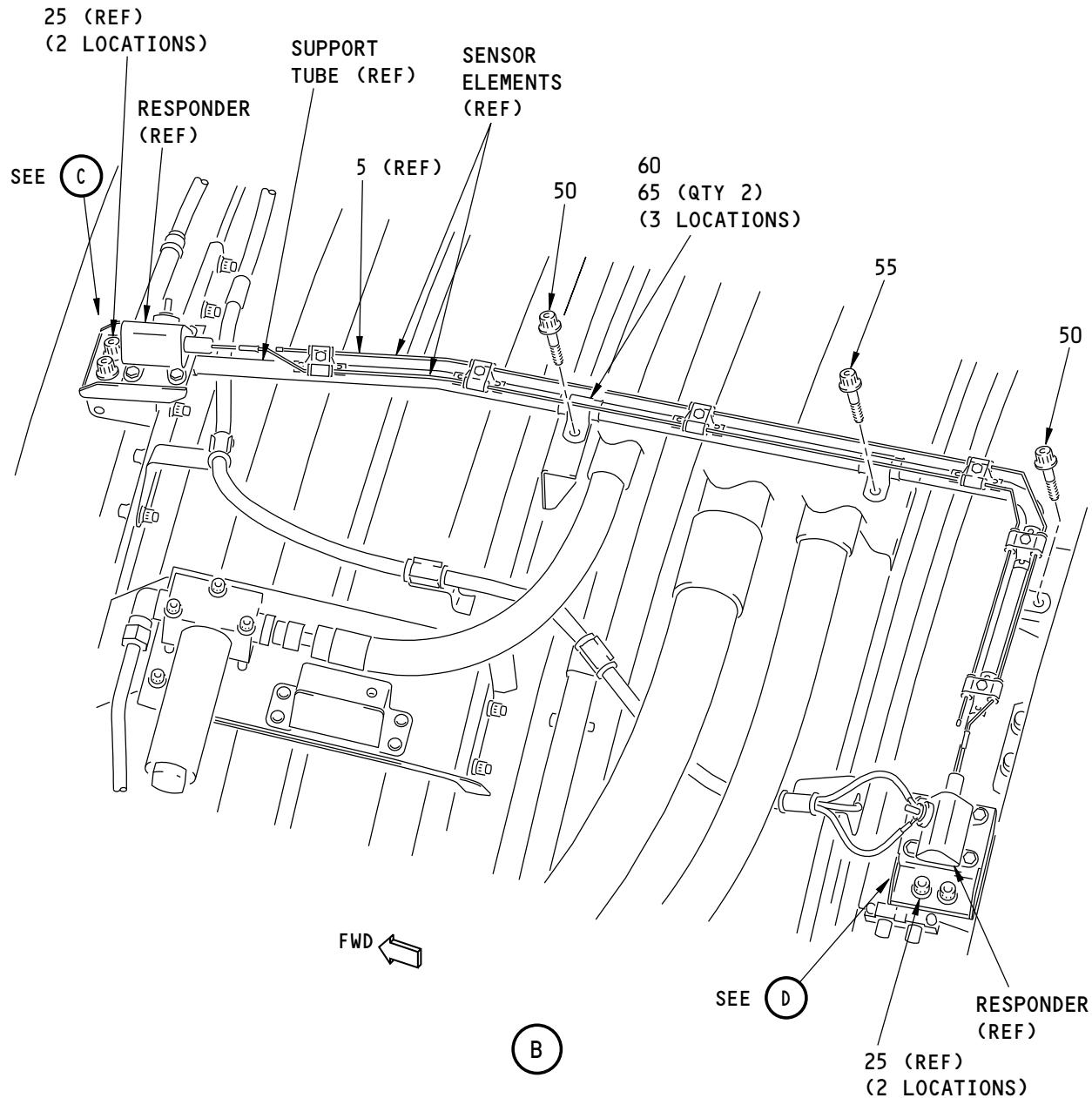
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 2)</b><br><br>USE solvent, B00083 (C1) TO CLEAN FAY SURFACES OF BOTH ELECTRICAL DETECTOR BRACKETS ON FIRE DETECTOR (5) AND FAY SURFACES OF ENGINE BRACKETS AT 11:00 AND 11:30 O'CLOCK POSITIONS ON TOP OF FAN CASE.<br><br>. SOLVENT |     |     |
| C1       | B00083       | POSITION FIRE DETECTOR (5) ON ENGINE BRACKETS ON TOP OF ENGINE FAN CASE. MAKE SURE SUPPORT TUBE ALIGNs NEXT TO HOLES IN BRACKETS.<br><br>LOOSELY ATTACH DETECTOR BRACKETS TO ENGINE BRACKETS WITH BOLTS (25).<br><br>. BOLT   | CON | AR  |
| 25       | BACB30ZF4-06 |   |     | 4   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 5

Jun 15/2016

D633A106-AKS



F19880 S00041153961\_V2

**Fire/Overheat Detector Installation**  
**Figure 28-1 (Sheet 3)**

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 6

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 28-1     |              | FIRE/OVERHEAT DETECTOR INSTALLATION<br>(FIGURE 28-1, SHEET 3)   |     |     |
|          |              | APPLY Never-Seez NSBT compound, D00006 (C2) UNDER HEAD OF BOLTS (50 AND 55) TO PREVENT DISTORTION AND TWISTING OF CLAMP DURING TORQUING.  |     |     |
| 50       | BACB30ZF4-06 | . BOLT  |     | 2   |
| 55       | BACB30ZF4-06 | . BOLT  |     | 1   |
| C2       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |
|          |              | LOOSELY ATTACH SUPPORT TUBE OF DETECTOR (5) TO ENGINE BRACKETS WITH LOOP CLAMPS (60), CLAMPSHELLS (65) AND BOLTS (50).  |     |     |
| 60       | 11777-08     | . LOOP CLAMP (V83930)   | VEN | 3   |
| 65       | 9352M41P04   | . CLAMPSHELL (V83930)   | VEN | 6   |
| 65       | BACC10GT2-08 | . CLAMPSHELL (OPTIONAL TO 9352M41P04)   | OPT | -   |
|          |              | MAKE SURE PRELOAD BETWEEN DETECTOR ASSY AND ATTACH POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS). TIGHTEN BOLTS (25), THEN BOLTS (50) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). TIGHTEN BOLTS (55) TO 73-77 POUND-INCHES (8.25-8.70 NEWTON METERS). |     |     |
|          |              | CHECK THAT RESISTANCE BETWEEN RESPONDER AND ENGINE CASE IS 0.010 OHMS MAXIMUM.  |     |     |
|          |              | CHECK THAT GAP BETWEEN SENSOR ELEMENTS AND SUPPORT TUBE IS NOT LESS THAN 0.12 INCH (3.0 MM).  |     |     |
|          |              | AFTER TIGHTENING, MINIMUM CLEARANCE OF 0.15 INCH (3.8 MM) BETWEEN FIRE DETECTOR AND FAN COWL SUPPORT BEAM INSULATION BLANKET IS PERMITTED.  |     |     |

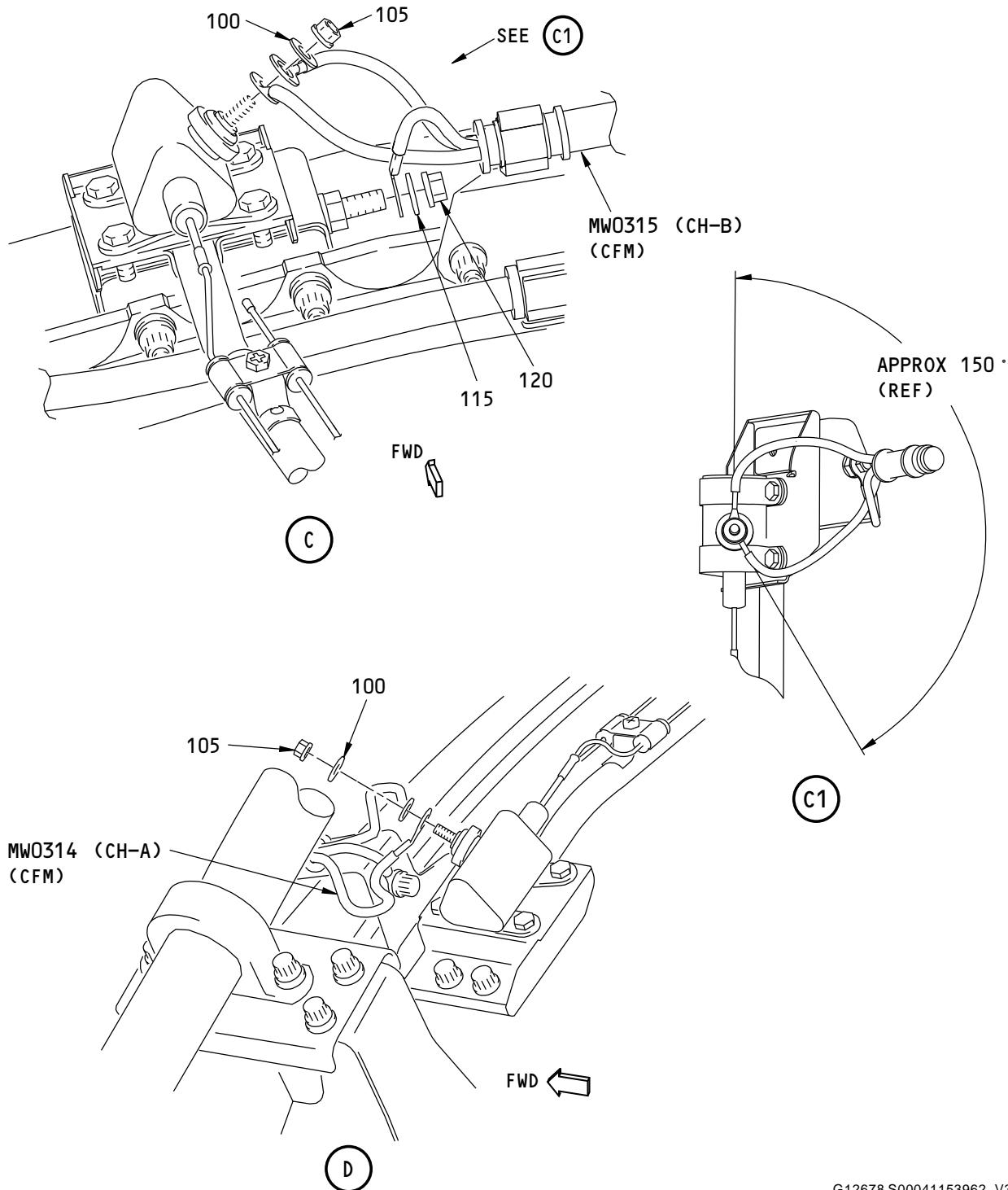
71-00-02

P/P BUILDUP FIGURE 28-1

Page 7

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

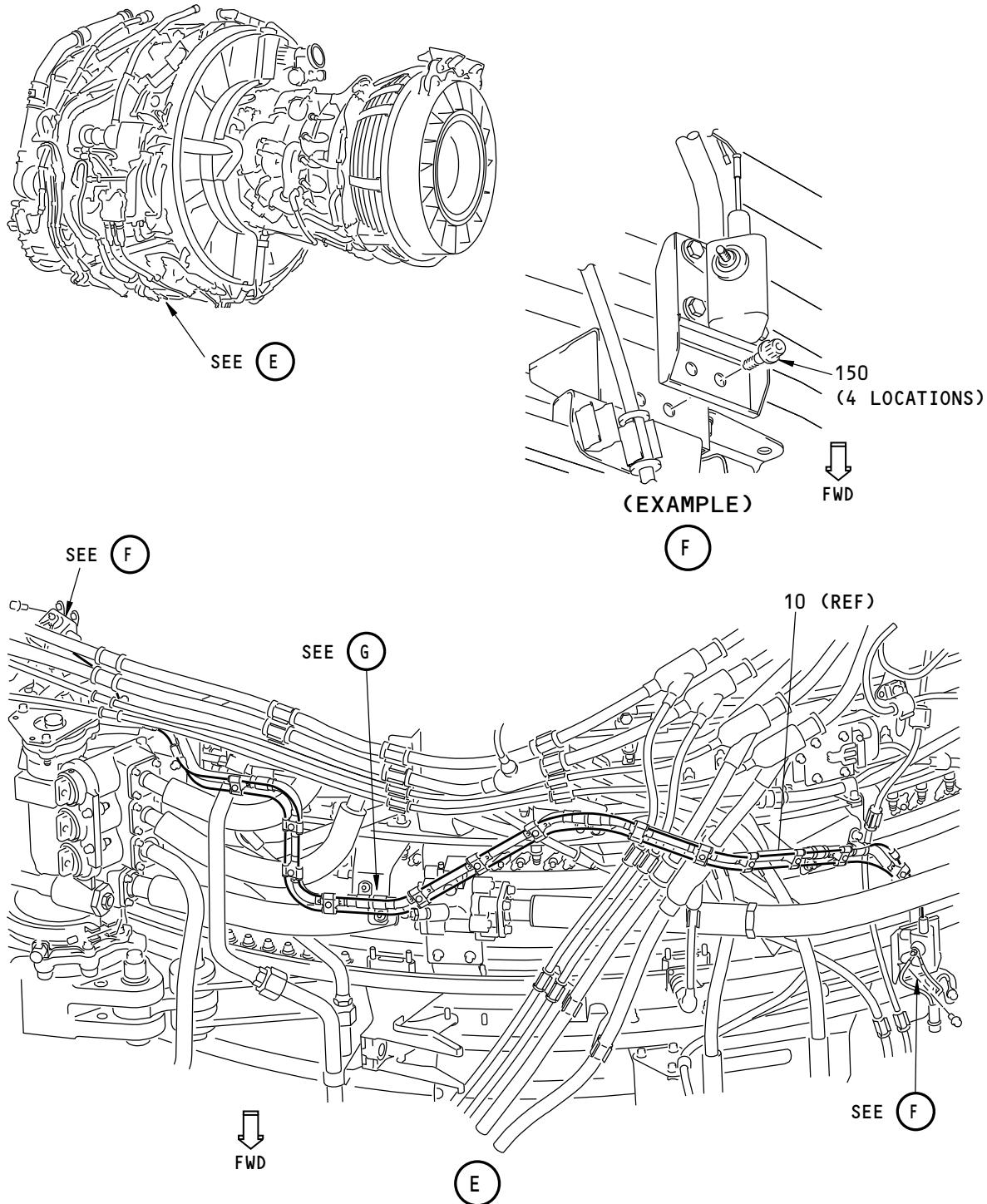
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 28-1     |               | <b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 28-1, SHEET 4)</b><br><br>ATTACH W/B MW0315 (CFM) TO UPPER RESPONDER AND ATTACH W/B MW0314 (CFM) TO LOWER RESPONDER. PUT BOTH W/B LEADS ON EACH RESPONDER STUD AND SECURE WITH WASHER (100) AND NUT (105). POSITION W/B MW0315 (CFM) LEADS APPROXIMATELY AS SHOWN AND TIE WRAP WIRES AS REQUIRED TO MAINTAIN THIS POSITION. TIGHTEN NUT TO 25-35 POUND-INCHES (2.8-4.0 NEWTON METERS). MINIMUM STUD THREAD PROTRUSION MUST BE FLUSH WITH TOP OF NUT. |     |     |
| 100      | NAS1149C0316R | . WASHER  |     | 2   |
| 100      | NAS1149C0332R | . WASHER (OPTIONAL TO NAS1149C0316R) (2 REQD)   | OPT | -   |
| 105      | BACN10JC3C    | . NUT (SUPPLIED WITH F/O DETECTOR)  | REF | -   |
| 105      | BACN10YR3C    | . NUT (OPTIONAL TO BACN10JC3C) (2 REQD)   | OPT | -   |
|          |               | ATTACH W/B MW0315 (CFM) GROUNDING WIRE TO UPPER RESPONDER BRACKET. SECURE WITH WASHER (115) AND NUT (120) AND TIGHTEN TO 90-105 POUND-INCHES (10.2-11.9 NEWTON METERS).   |     |     |
| 115      | NAS1149C0432R | . WASHER  |     | 1   |
| 120      | BACN10YR4CM   | . NUT   |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 9

Jun 15/2016

D633A106-AKS



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**Fire/Overheat Detector Installation**  
**Figure 28-1 (Sheet 5)**

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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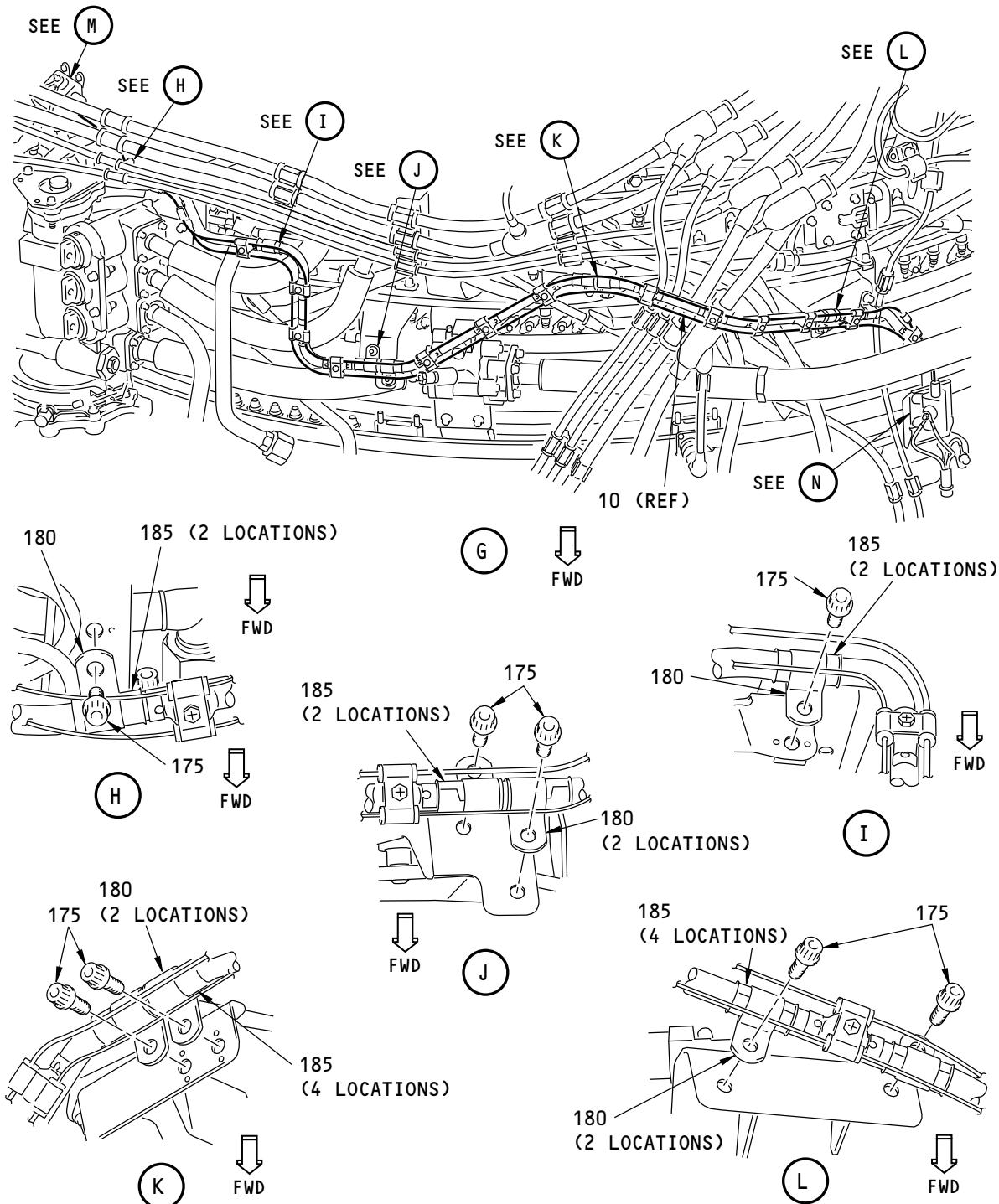
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 5)</b><br><br>USE solvent, B00083 (C1) TO CLEAN FAY SURFACES OF BOTH ELECTRICAL DETECTOR BRACKETS ON FIRE DETECTOR (10) AND FAY SURFACES OF ENGINE BRACKETS AT 3:00 THRU 7:00 O'CLOCK POSITIONS ON FAN CASE.<br><br>. SOLVENT |     |     |
| C1       | B00083       | POSITION FIRE DETECTOR (10) ON ENGINE BRACKETS ON ENGINE FAN CASE. MAKE SURE SUPPORT TUBE ALIGNS NEXT TO HOLES IN BRACKETS.<br><br>LOOSELY ATTACH DETECTOR BRACKETS TO ENGINE BRACKETS WITH BOLTS (150).<br><br>. BOLT   | CON | AR  |
| 150      | BACB30ZF4-06 |  |     | 4   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 11

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 12

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

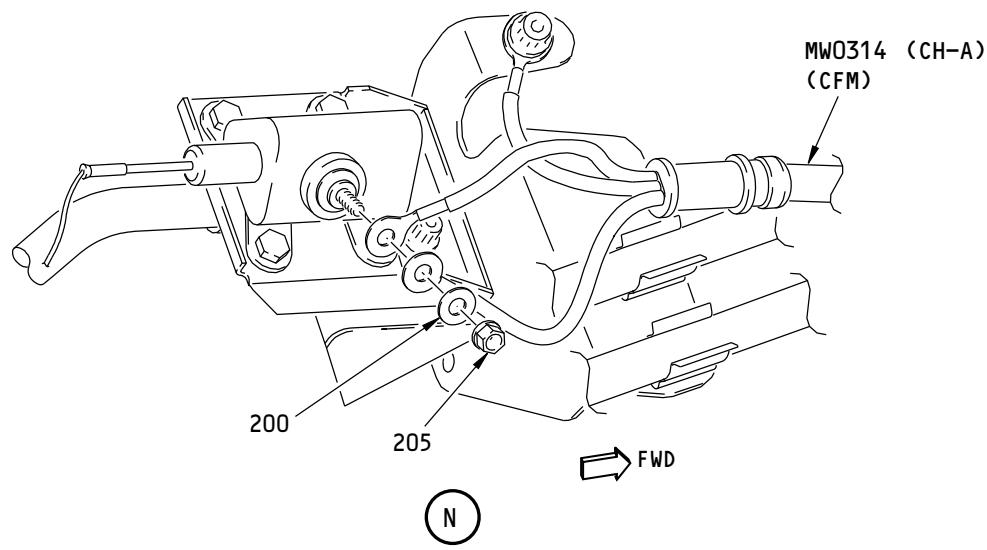
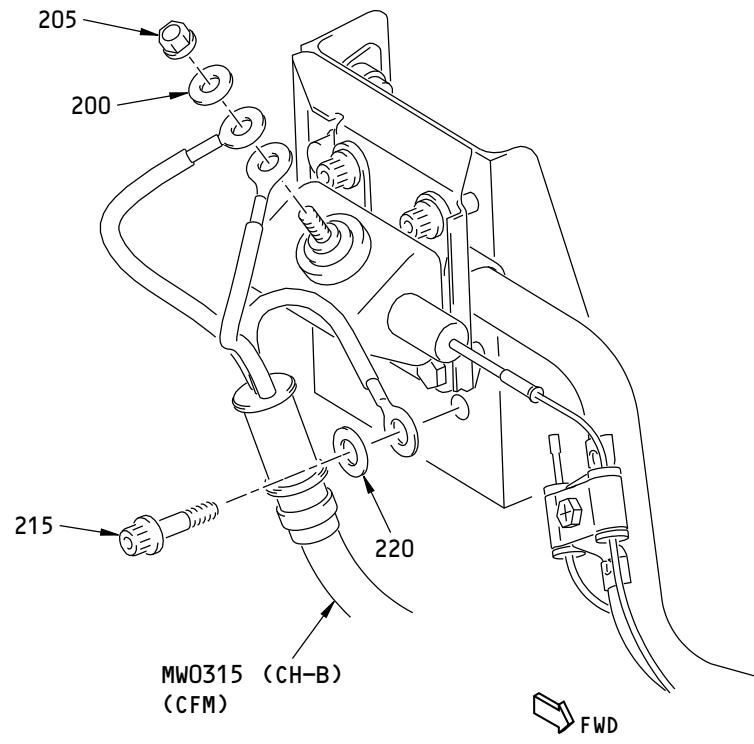
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 28-1, SHEET 6)</b><br><br>APPLY Never-Seez NSBT compound, D00006 (C2) UNDER HEAD OF BOLTS (175) TO PREVENT DISTORTION AND TWISTING OF CLAMP DURING TORQUING.   |     |     |
| 175      | BACB30ZF4-06 | . BOLT  |     | 8   |
| C2       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>LOOSELY ATTACH SUPPORT TUBE OF DETECTOR (10) TO ENGINE BRACKETS AT 8 LOCATIONS WITH LOOP CLAMPS (180), CLAMPSHELLS (185) AND BOLTS (175).  | CON | AR  |
|          |              | <b>NOTE:</b> IN LOCATIONS WITH 2 ADJACENT CLAMPS, CLAMPSHELL-TO-CLAMPSHELL CLEARANCE IS LESS THAN 0.005 INCH (0.13 MM). IN THESE LOCATIONS, THE CLAMP MAY RIDE THE RADIUS OF THE CLAMPSHELL.  |     |     |
| 180      | 11777-08     | . LOOP CLAMP (V83930)   | VEN | 8   |
| 185      | 9352M41P04   | . CLAMPSHELL (V83930)   | VEN | 16  |
| 185      | BACC10GT2-08 | . CLAMPSHELL (OPTIONAL TO 9352M41P04)<br><br>MAKE SURE PRELOAD BETWEEN DETECTOR ASSY AND ATTACH POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS). TIGHTEN BOLTS (150) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). TIGHTEN BOLTS (175) TO 73-77 POUND-INCHES (8.25-8.70 NEWTON METERS).<br><br>CHECK THAT RESISTANCE BETWEEN RESPONDER AND ENGINE CASE IS 0.010 OHMS MAXIMUM.<br><br>CHECK THAT GAP BETWEEN SENSOR ELEMENTS AND SUPPORT TUBE IS NOT LESS THAN 0.12 INCH (3.0 MM). | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

G13949 S00041153970\_V1

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

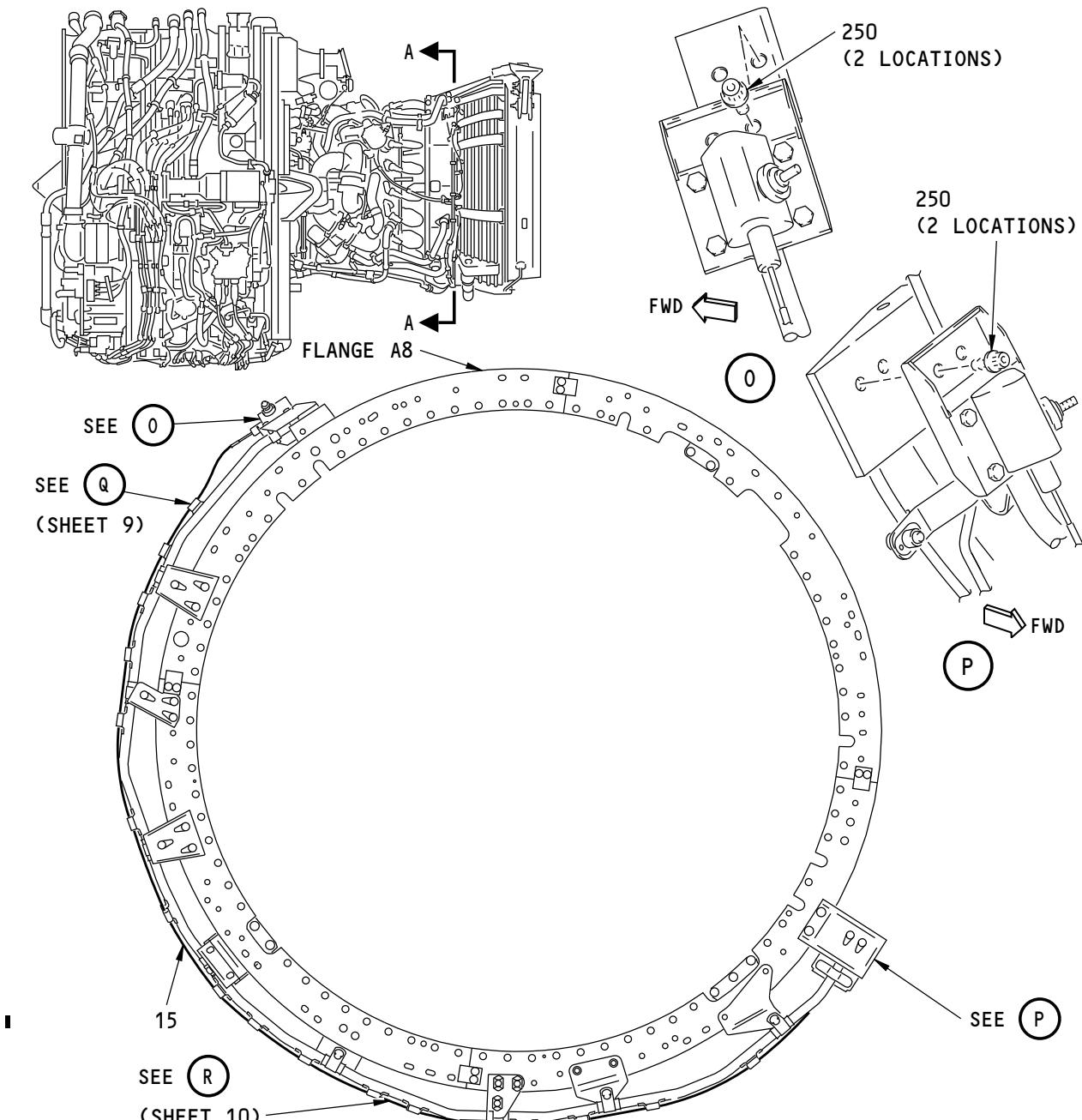
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 28-1     |               | <b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 7)</b><br><br>ATTACH W/B MW0315 (CFM) TO LEFT RESPONDER AND ATTACH W/B MW0314 (CFM) TO RIGHT RESPONDER. PUT BOTH W/B LEADS ON EACH RESPONDER STUD AND SECURE WITH WASHER (200) AND NUT (205). TIGHTEN NUT TO 25-35 POUND-INCHES (2.8-4.0 NEWTON METERS). MINIMUM STUD THREAD PROTRUSION MUST BE FLUSH WITH TOP ON NUT. |     |     |
| 200      | NAS1149C0316R | . WASHER  |     | 2   |
| 200      | NAS1149C0332R | . WASHER (OPTIONAL TO NAS1149C0316R) (2 REQD)   | OPT | -   |
| 205      | BACN10JC3C    | . NUT (SUPPLIED WITH F/O DETECTOR)  | REF | -   |
| 205      | BACN10YR3C    | . NUT (OPTIONAL TO BACN10JC3C) (2 REQD)   | OPT | -   |
|          |               | ATTACH W/B MW0315 (CFM) GROUNDING WIRE TO LEFT RESPONDER BRACKET. SECURE WITH BOLT (215) AND WASHER (220) AND TIGHTEN TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).  |     |     |
| 215      | BACB30ZF4-07  | . BOLT  |     | 1   |
| 220      | NAS1149C0432R | . WASHER  |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 15

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

## DETECTORS WITHOUT WIRE HARNESS BRACKETS

(PRE-SB CFM56-7B-72-0981)

(VIEW IN THE FORWARD DIRECTION)

A-A

F20482 S00041153972\_V3

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 8)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 16

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 8)</b><br><u>DETECTORS WITHOUT WIRE HARNESS BRACKETS (PRE SB CFM56-7B-72-0981):</u><br>USE solvent, B00083 (C1) TO CLEAN FAY SURFACES OF BOTH ELECTRICAL DETECTOR BRACKETS ON FIRE DETECTOR (15) AND FAY SURFACES OF ENGINE BRACKETS AT 10:30 AND 4:00 O'CLOCK POSITIONS ON ENGINE CORE FLANGE A8.<br>. SOLVENT<br>POSITION FIRE DETECTOR (15) ON ENGINE BRACKETS. MAKE SURE SUPPORT TUBE ALIGNS NEXT TO HOLES IN BRACKETS.<br>LOOSELY ATTACH DETECTOR BRACKETS TO ENGINE BRACKETS WITH BOLTS (250).<br>. BOLT (4 REQD) |     |     |
| C1       | B00083       |  | CON | AR  |
| 250      | BACB30ZF4-07 |  | LTD | -   |

**71-00-02**

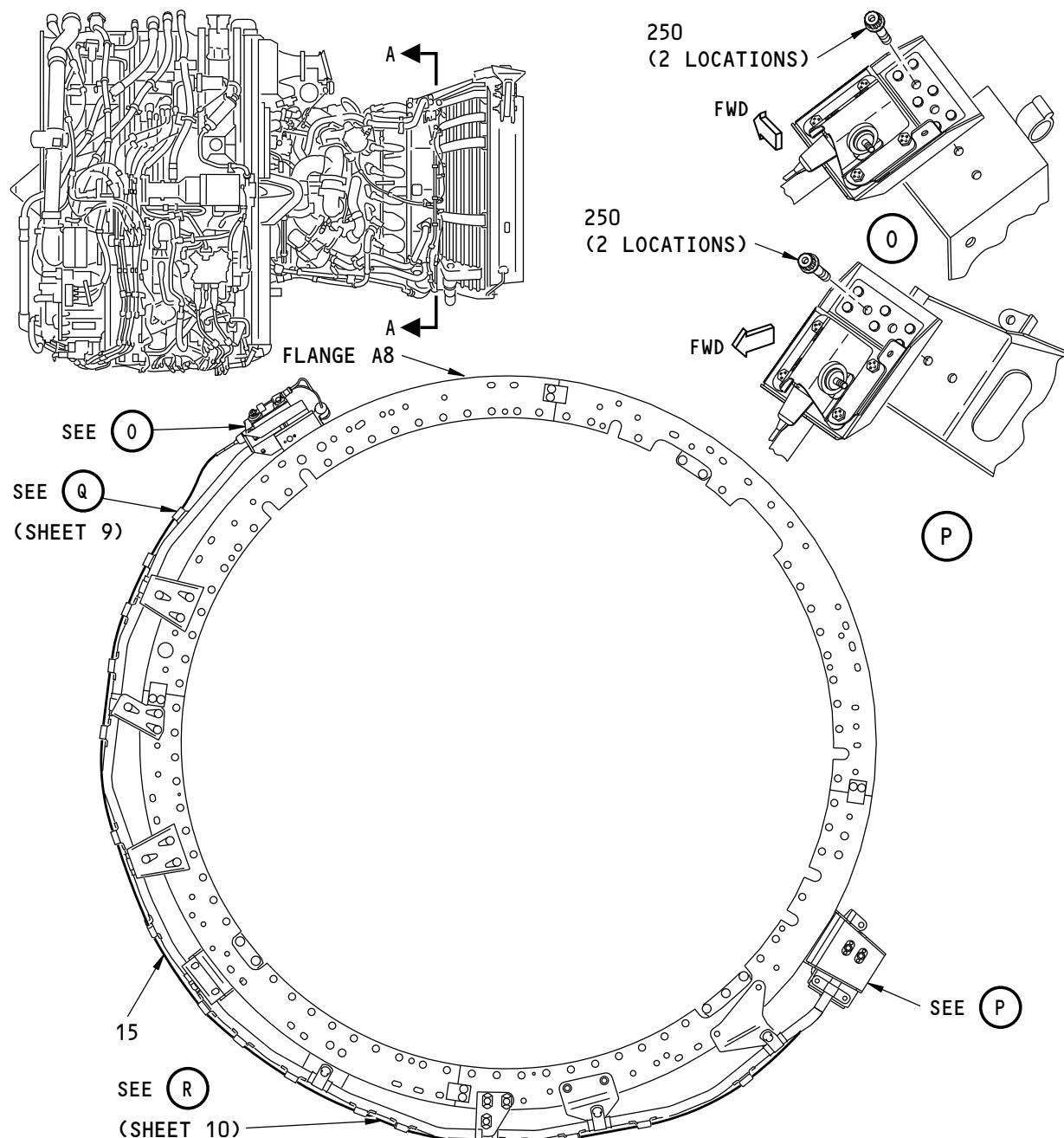
**P/P BUILDUP FIGURE 28-1**

Page 17

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

DETECTORS WITH WIRE HARNESS BRACKETS  
(POST-SB CFM56-7B-72-0981)  
(VIEW IN THE FORWARD DIRECTION)

A-A

2464205 S0000572090\_V2

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 9)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 18

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

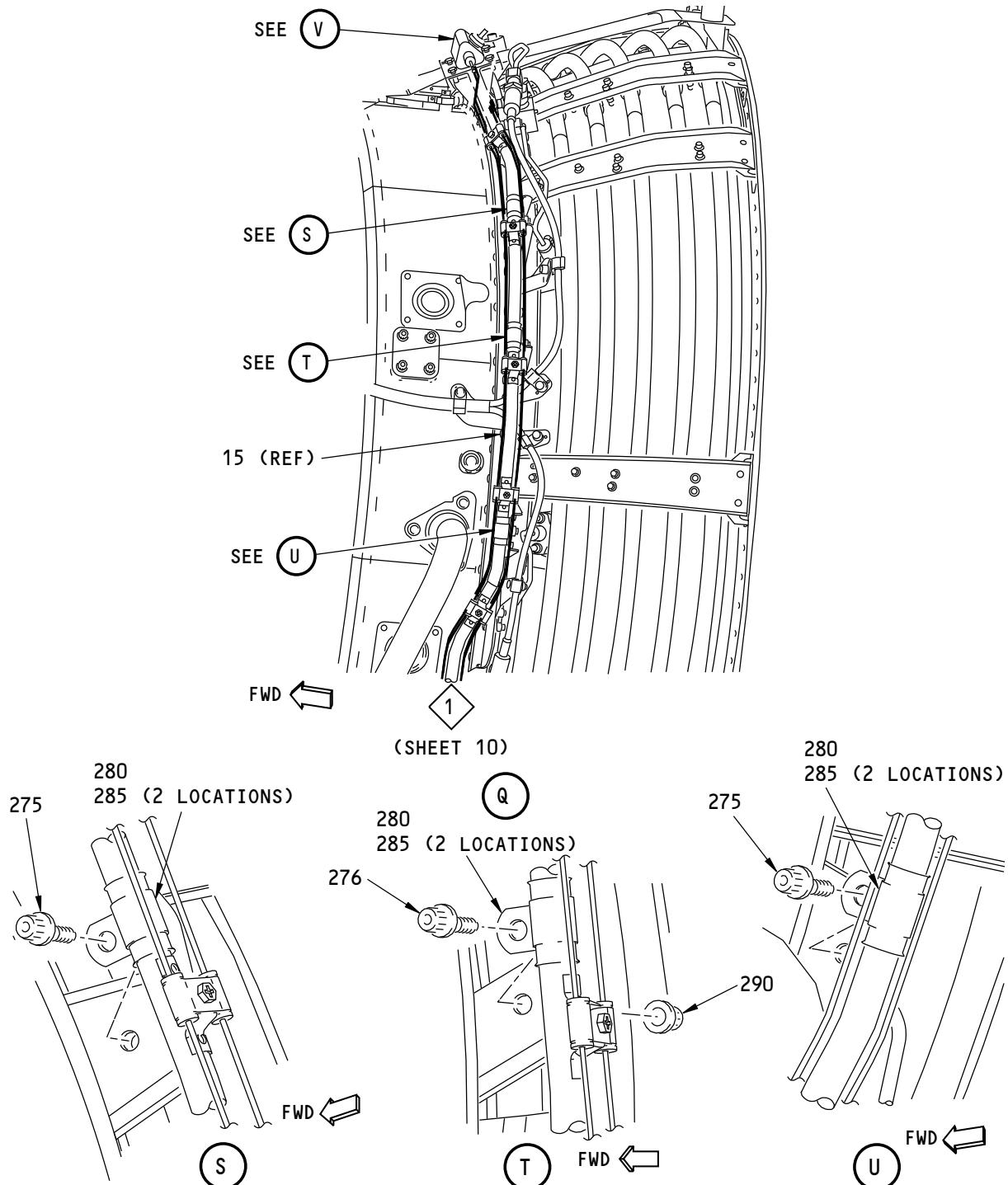
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 9)</b><br><u>DETECTORS WITH WIRE HARNESS BRACKETS (POST SB CFM56-7B-72-0981):</u><br>USE solvent, B00083 (C1) TO CLEAN FAY SURFACES OF BOTH ELECTRICAL DETECTOR BRACKETS ON FIRE DETECTOR (15) AND FAY SURFACES OF ENGINE BRACKETS AT 10:30 AND 4:00 O'CLOCK POSITIONS ON ENGINE CORE FLANGE A8.<br>. SOLVENT<br>POSITION FIRE DETECTOR (15) ON ENGINE BRACKETS. MAKE SURE SUPPORT TUBE ALIGNS NEXT TO HOLES IN BRACKETS.<br>LOOSELY ATTACH DETECTOR BRACKETS TO ENGINE BRACKETS WITH BOLTS (250).<br>. BOLT |     |     |
| C1       | B00083       |   | CON | AR  |
| 250      | BACB30ZF4-07 |   |     | 4   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 19

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F20618 S00041153973\_V1

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 10)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 20

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

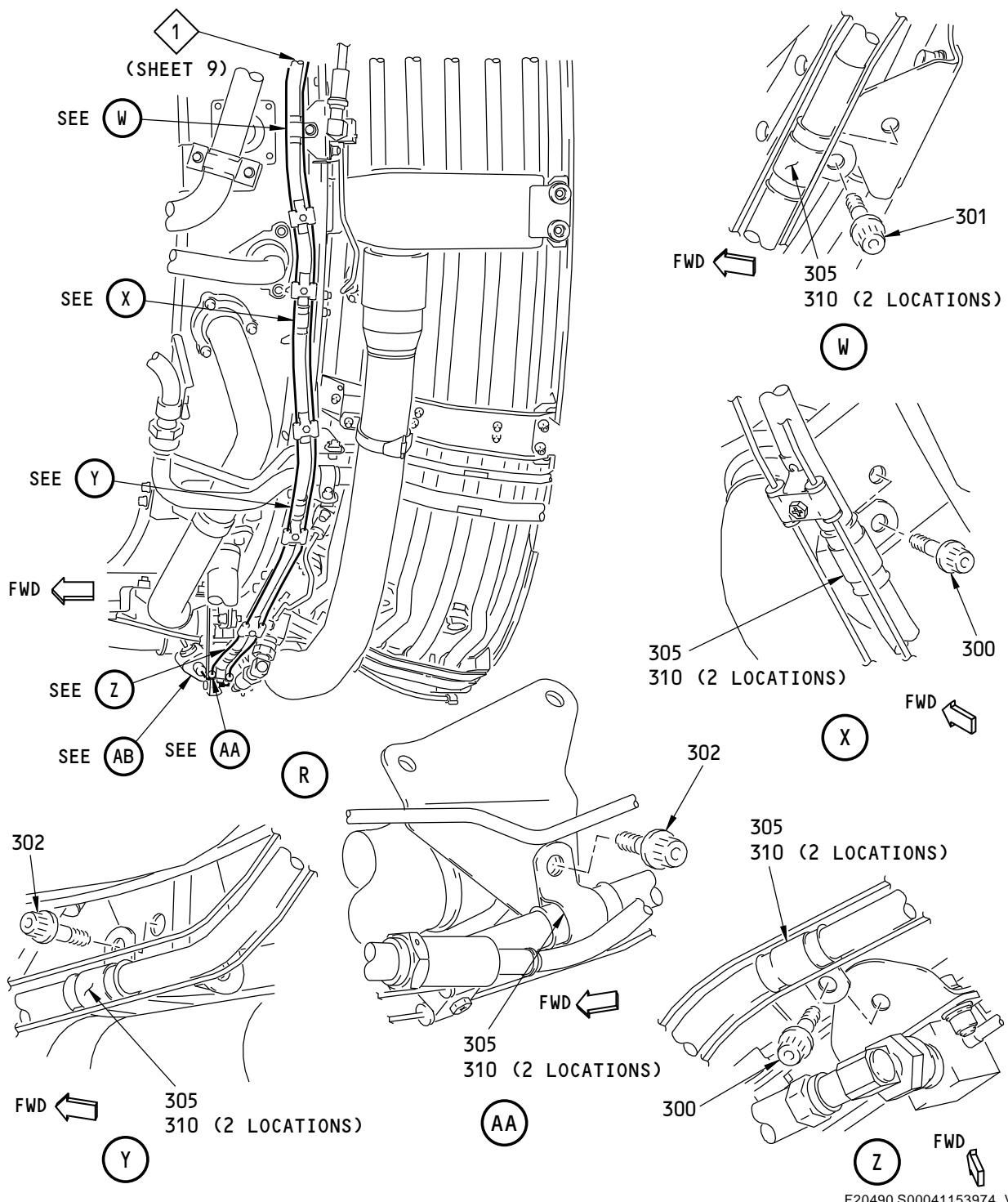
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 28-1     |              | FIRE/OVERHEAT DETECTOR INSTALLATION<br>(FIGURE 28-1, SHEET 10)<br><br>APPLY Never-Seez NSBT compound, D00006 (C2) UNDER HEAD OF BOLTS (275) AND BOLT (276) TO PREVENT DISTORTION AND TWISTING OF CLAMP DURING TORQUING.          |     |     |
| 275      | BACB30ZF4-06 | . BOLT   |     | 2   |
| 276      | BACB30ZF4-08 | . BOLT   |     | 1   |
| C2       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>LOOSELY ATTACH SUPPORT TUBE OF DETECTOR (15) TO ENGINE BRACKETS AT 3 LOCATIONS WITH LOOP CLAMPS (280), CLAMPSHELLS (285), BOLTS (275) (2 LOCATIONS), BOLT (276) (1 LOCATION) AND NUT (290). | CON | AR  |
| 280      | 11777-08     | . LOOP CLAMP (V83930)  | VEN | 3   |
| 285      | 9352M41P04   | . CLAMPSHELL (V83930)  | VEN | 6   |
| 285      | BACC10GT2-08 | . CLAMPSHELL (OPTIONAL TO 9352M41P04)  | OPT | -   |
| 290      | AS3485-10    | . NUT  |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 21

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUALFire/Overheat Detector Installation  
Figure 28-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 22

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 28-1, SHEET 11)</b><br><br>APPLY Never-Seez NSBT compound, D00006 (C2) UNDER HEAD OF BOLTS (300, 301 AND 302) TO PREVENT DISTORTION AND TWISTING OF CLAMP DURING TORQUING.   |     |     |
| 300      | BACB30ZF4-06 | . BOLT  |     | 2   |
| 301      | BACB30ZF4-08 | . BOLT  |     | 1   |
| 302      | BACB30ZF4-06 | . BOLT  |     | 2   |
| C2       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>LOOSELY ATTACH SUPPORT TUBE OF DETECTOR (15) TO ENGINE BRACKETS AT 5 LOCATIONS WITH LOOP CLAMPS (305), CLAMPSHELLS (310), BOLTS (300, 301 AND 302).  | CON | AR  |
| 305      | 11777-08     | . LOOP CLAMP (V83930)   | VEN | 5   |
| 310      | 9352M41P04   | . CLAMPSHELL (V83930)   | VEN | 10  |
| 310      | BACC10GT2-08 | . CLAMPSHELL (OPTIONAL TO 9352M41P04)<br><br>MAKE SURE PRELOAD BETWEEN DETECTOR ASSY AND ATTACH POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS). TIGHTEN BOLTS (250), THEN BOLTS (301 AND 302) TO 73-77 POUND-INCHES (8.25-8.70 NEWTON METERS). TIGHTEN BOLTS (275 AND 300) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).<br>CHECK THAT RESISTANCE BETWEEN RESPONDER AND ENGINE CASE IS 0.010 OHMS MAXIMUM.<br>CHECK THAT GAP BETWEEN SENSOR ELEMENTS AND SUPPORT TUBE IS NOT LESS THAN 0.12 INCH (3.0 MM). | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 23

Jun 15/2016

D633A106-AKS

THIS SHEET NOT USED

U64289 S00041154064\_V2

| Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 12)

**71-00-02**

**P/P BUILDUP FIGURE 28-1**

Page 24

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 28-1     |             | FIRE/OVERHEAT DETECTOR INSTALLATION<br>(FIGURE 28-1, SHEET 12)<br><br>THIS SHEET NOT USED |    |     |

71-00-02

P/P BUILDUP FIGURE 28-1

Page 25

Jun 15/2016

D633A106-AKS

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THIS SHEET NOT USED

U64289 S00041154064\_V2

|  
Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 13)

**71-00-02**

**P/P BUILDUP FIGURE 28-1**

Page 26

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 28-1     |             | FIRE/OVERHEAT DETECTOR INSTALLATION<br>(FIGURE 28-1, SHEET 13)<br><br>THIS SHEET NOT USED |    |     |

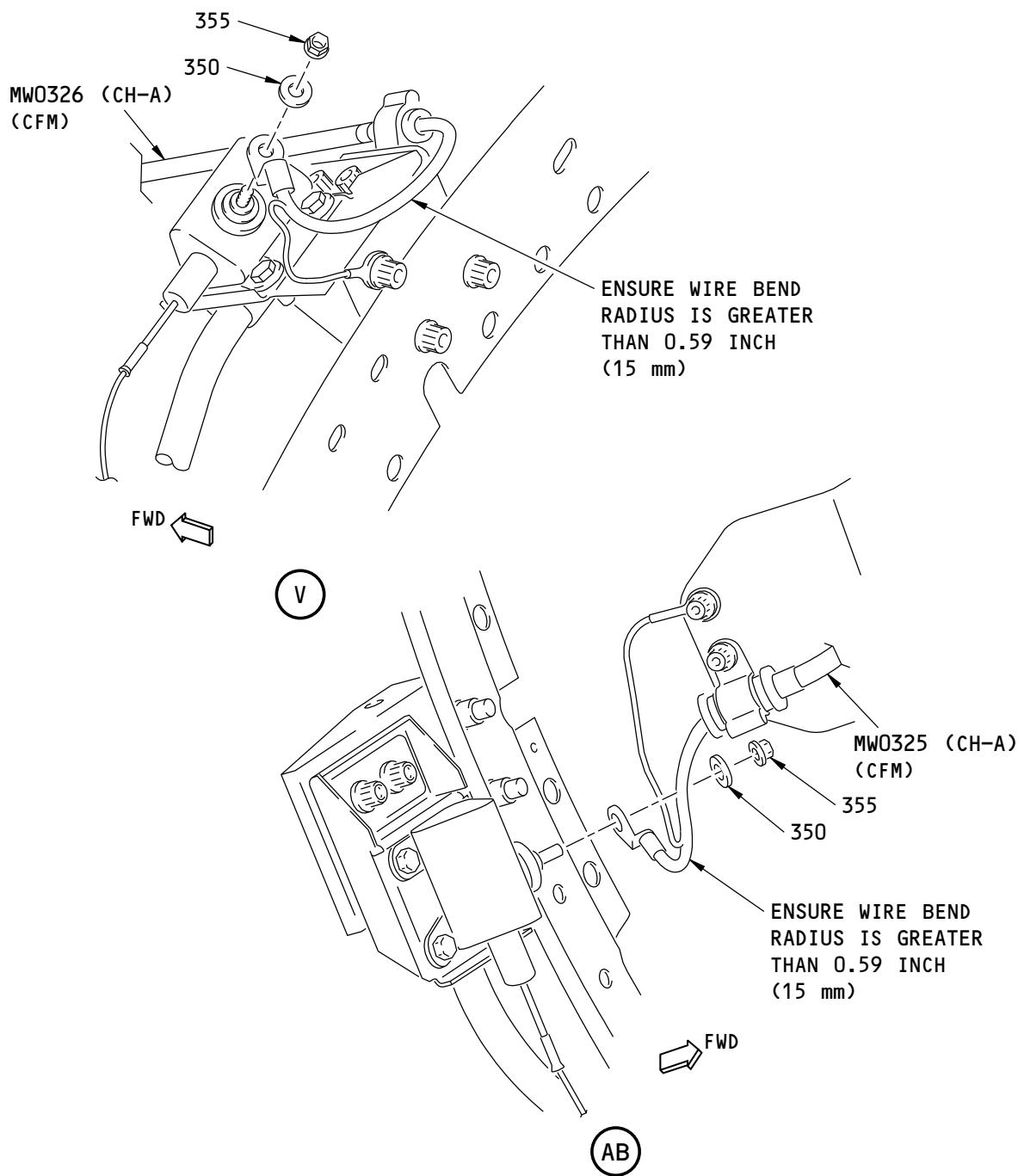
**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 27

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUALDETECTORS WITHOUT WIRE HARNESS BRACKETS  
(PRE-SB CFM56-7B-72-0981)

2026240 S0000403133\_V4

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 14)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 28

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 28-1     |               | <p><b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 14)</b></p> <p><b>DETECTORS WITHOUT WIRE HARNESS BRACKETS (PRE SB CFM56-7B-72-0981):</b></p> <p><b>CAUTION:</b> DO NOT BEND THE WIRE LUG. INCORRECT INSTALLATION CAN CAUSE WIRE LUG DAMAGE AND DETECTOR LOOP FAULTS.</p> <p>ATTACH W/B MW0325 (CFM) TO UPPER RESPONDER AND ATTACH W/B MW0325 (CFM) TO LOWER RESPONDER. PUT BOTH W/B LEADS ON EACH RESPONDER STUD AND SECURE WITH WASHER (350) AND NUT (355). TIGHTEN NUT TO 25-35 POUND-INCHES (2.8-4.0 NEWTON METERS). MINIMUM STUD THREAD PROTRUSION MUST BE FLUSH WITH TOP OF NUT.</p> |     |     |
| 350      | NAS1149C0316R | . WASHER (2 REQD)   | LTD | -   |
| 350      | NAS1149C0432R | . WASHER (OPTIONAL TO NAS1149C0316R) (2 REQD)   | OPT | -   |
| 355      | BACN10JC3C    | . NUT (SUPPLIED WITH F/O DETECTOR)  | REF | -   |
| 355      | BACN10YR3C    | . NUT (OPTIONAL TO BACN10JC3C) (2 REQD)   | OPT | -   |

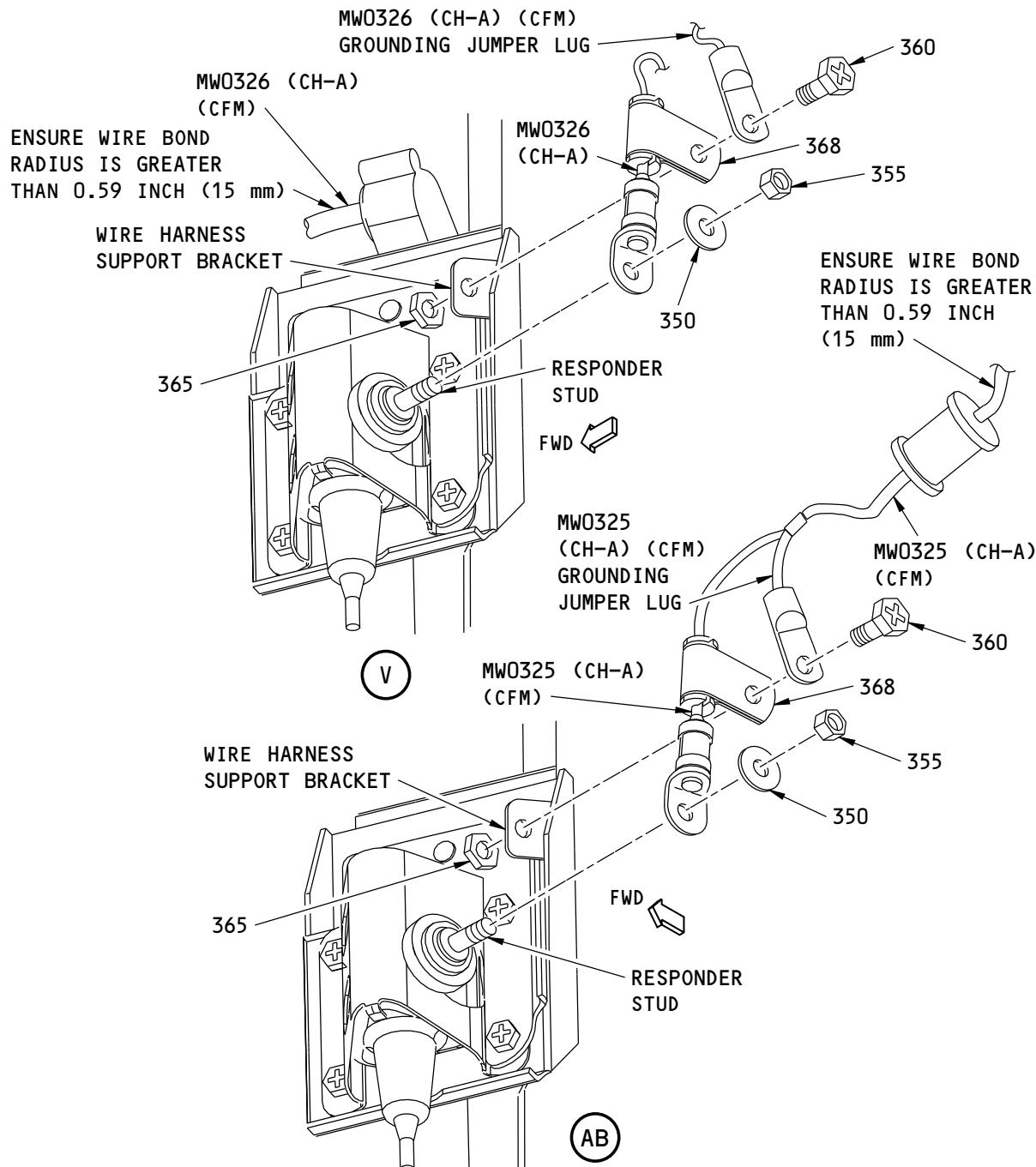
**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 29

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

ENGINES WITH PREFERRED MW0325 & MW0326 HARNESES WITH GROUND LUG & WIRE  
AND DETECTORS WITH WIRE HARNESS BRACKETS  
(POST-SB CFM56-7B-72-0981)

2463447 S0000572108\_V2

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 15)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 30

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 28-1     |               | <p><b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 28-1, SHEET 15)</b></p> <p><u>ENGINES WITH PREFERRED MW0325 AND MW0326 HARNESES WITH GROUND LUG AND WIRE; AND DETECTORS WITH WIRE HARNESS BRACKETS (POST SB CFM56-7B-72-0981):</u></p> <p><b>CAUTION:</b> DO NOT BEND THE WIRE LUG. INCORRECT INSTALLATION CAN CAUSE WIRE LUG DAMAGE AND DETECTOR LOOP FAULTS.</p> <p>ATTACH W/B MW0326 (CFM) TO UPPER RESPONDER AND ATTACH W/B MW0325 (CFM) TO LOWER RESPONDER. PUT BOTH W/B LEADS ON EACH RESPONDER STUD AND SECURE WITH WASHER (350) AND NUT (355). TIGHTEN NUT TO 25-35 POUND-INCHES (2.8-4.0 NEWTON METERS). MINIMUM STUD THREAD PROTRUSION MUST BE FLUSH WITH TOP OF NUT.</p> <p>CLEAN MATING SURFACE OF WIRE HARNESS BRACKET AND BOTH SIDES OF THE CLAMP (368) WITH alcohol, B00130 (C1). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS. ATTACH CLAMP (368) ON W/B MW0326 (CFM) AND GROUNDING JUMPER LUG TO WIRE HARNESS SUPPORT BRACKET WITH EXISTING SCREW (360) AND NUT (365). ATTACH CLAMP (368) ON W/B MW0325 (CFM) AND GROUNDING JUMPER LUG TO WIRE HARNESS SUPPORT BRACKET WITH EXISTING SCREW (360) AND NUT (365). TIGHTEN NUT (365) TO 34-36 POUND-INCHES (3.8-4.1 NEWTON METERS).</p> |     |     |
| 350      | NAS1149C0316R | . WASHER  |     | 2   |
| 350      | NAS1149C0432R | . WASHER (OPTIONAL TO NAS1149C0316R) (2 REQD)   | OPT | -   |
| 355      | MS21043-3     | . NUT (SUPPLIED WITH F/O DETECTOR)  | REF | -   |
| 355      | BACN10YR3C    | . NUT (OPTIONAL TO MS21043-3) (2 REQD)  | OPT | -   |
| 360      | NAS1802-3-6   | . SCREW (SUPPLIED WITH ENGINE)  | REF | -   |
| 365      | MS21043-3     | . NUT (SUPPLIED WITH ENGINE)  | REF | -   |
| 365      | BACN10YR3C    | . NUT (OPTIONAL TO MS21043-3) (2 REQD)  | OPT | -   |
| 368      | MS122902      | . CLAMP (SUPPLIED WITH ENGINE)  | REF | -   |
| C1       | B00130        | . ALCOHOL   | CON | AR  |
|          |               | CHECK THAT RESISTANCE BETWEEN GROUNDING JUMPER LUG AND WIRE HARNESS SUPPORT BRACKET IS 0.005 OHMS MAXIMUM.  |     |     |

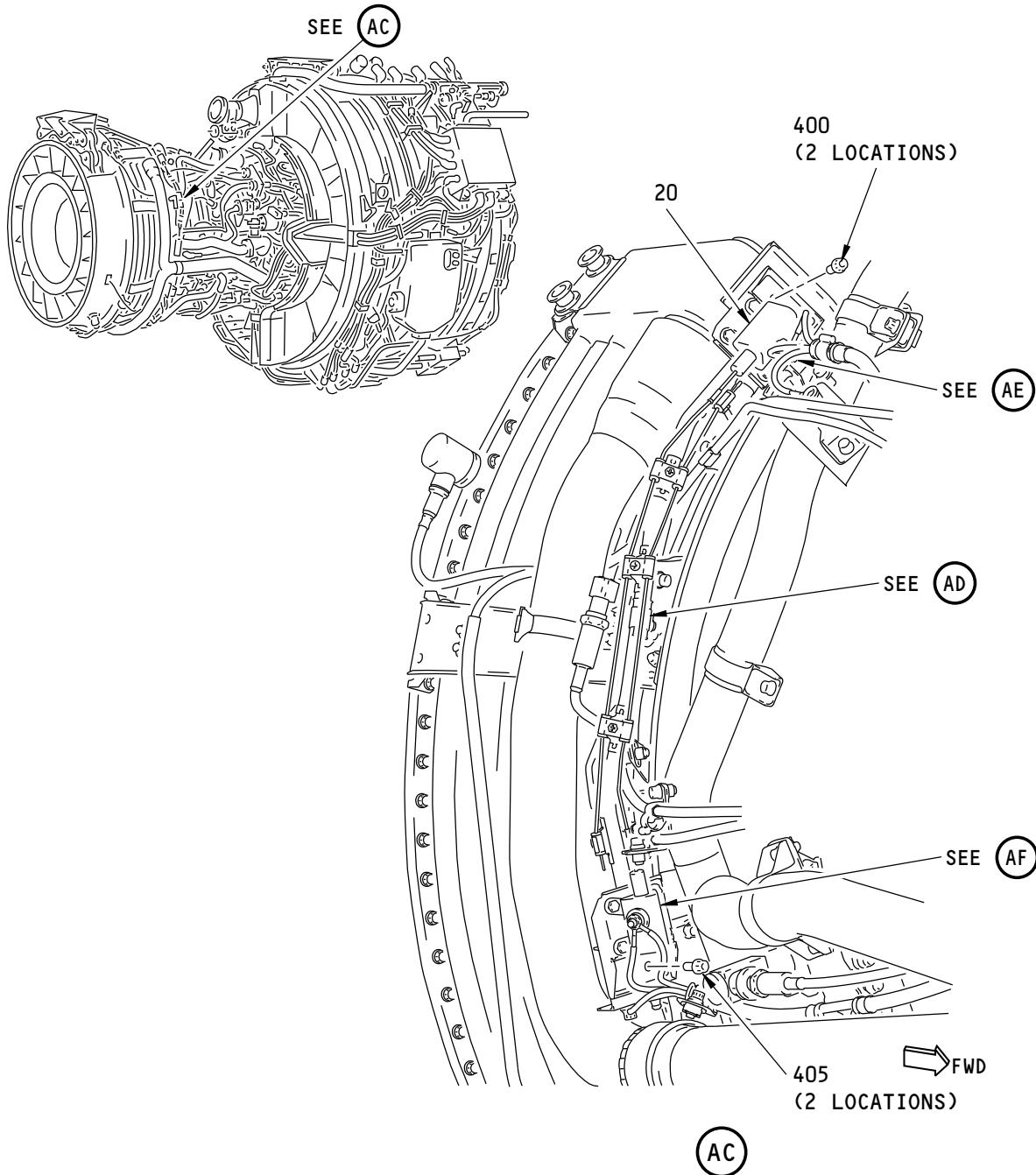
71-00-02

P/P BUILDUP FIGURE 28-1

Page 31

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUALDETECTORS WITHOUT WIRE HARNESS BRACKETS  
(PRE-SB CFM56-7B-72-0981)

F19942 S00041153977\_V3

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 16)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 32

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 16)</b><br><br><u>DETECTORS WITHOUT WIRE HARNESS BRACKETS (PRE SB CFM56-7B-72-0981):</u><br><br>USE solvent, B00083 (C1) TO CLEAN FAY SURFACES OF BOTH ELECTRICAL DETECTOR BRACKETS ON FIRE DETECTOR (20) AND FAY SURFACES OF ENGINE BRACKETS AT 1:00 AND 3:00 O'CLOCK POSITIONS ON ENGINE CORE FLANGE A8.<br><br>. SOLVENT<br><br>POSITION FIRE DETECTOR (20) ON ENGINE BRACKETS. MAKE SURE SUPPORT TUBE ALIGNS NEXT TO HOLES IN BRACKETS.<br><br>LOOSELY ATTACH DETECTOR BRACKET TO UPPER ENGINE BRACKET WITH BOLTS (400) AND LOWER ENGINE BRACKET WITH BOLTS (405). |     |     |
| C1       | B00083       |   | CON | AR  |
| 400      | BACB30ZF4-06 | . BOLT (2 REQD)   | LTD | -   |
| 405      | BACB30ZF4-07 | . BOLT (2 REQD)   | LTD | -   |

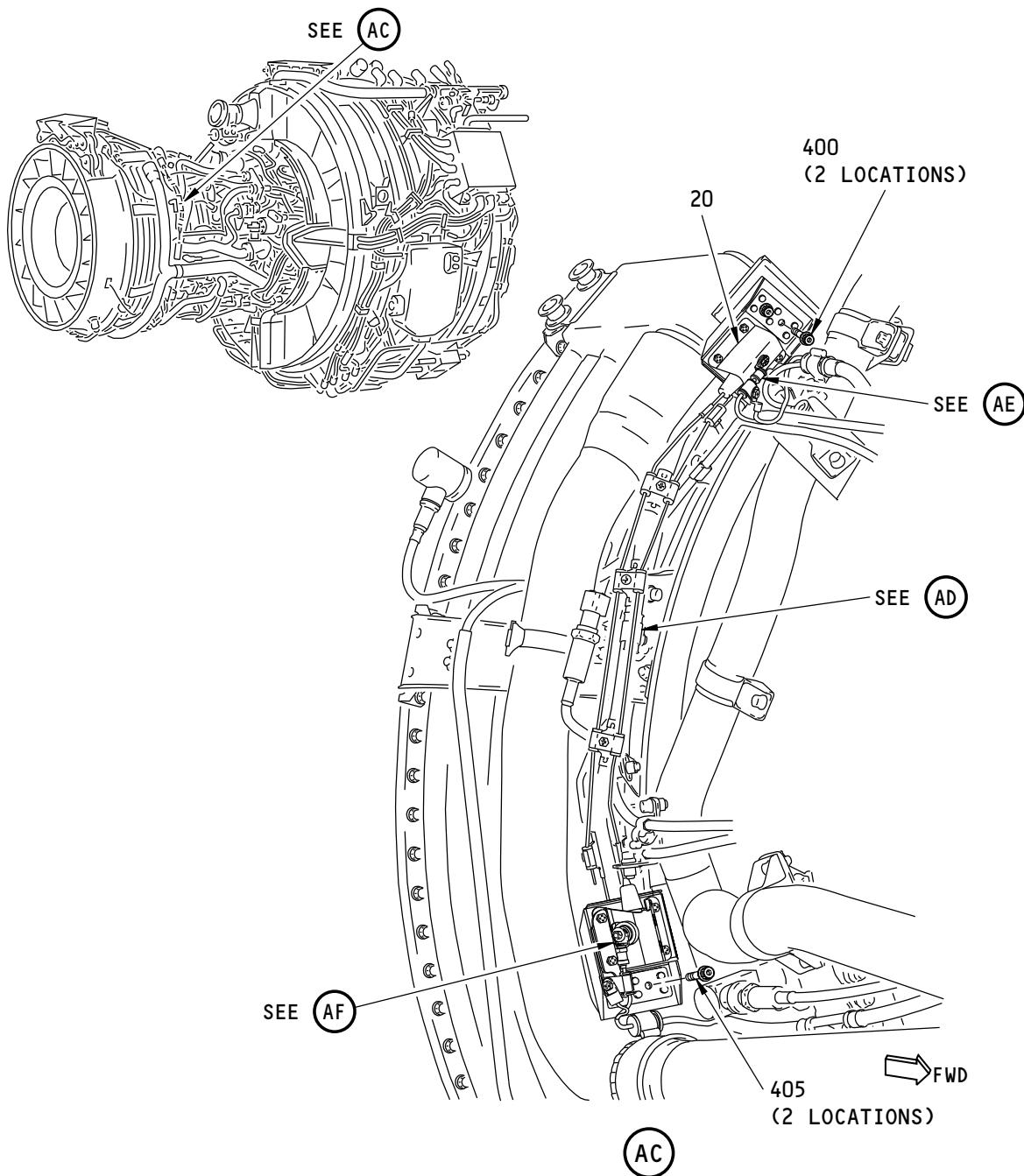
**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 33

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUALDETECTORS WITH WIRE HARNESS BRACKETS  
(POST-SB CFM56-7B-72-0981)

2464407 S0000572122\_V2

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 17)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 34

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

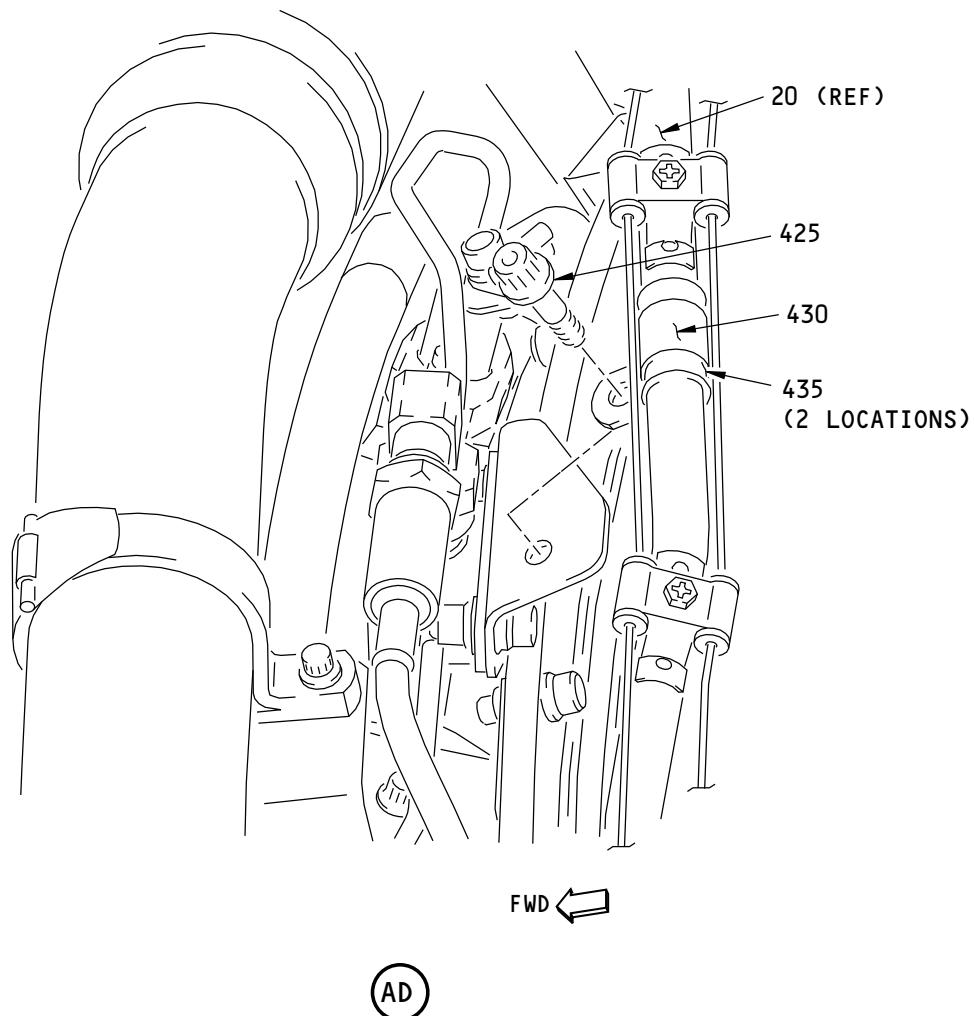
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 17)</b><br><br><u>DETECTORS WITH WIRE HARNESS BRACKETS (POST SB CFM56-7B-72-0981):</u><br><br>USE solvent, B00083 (C1) TO CLEAN FAY SURFACES OF BOTH ELECTRICAL DETECTOR BRACKETS ON FIRE DETECTOR (20) AND FAY SURFACES OF ENGINE BRACKETS AT 1:00 AND 3:00 O'CLOCK POSITIONS ON ENGINE CORE FLANGE A8.<br><br>. SOLVENT |     |     |
| C1       | B00083       | POSITION FIRE DETECTOR (20) ON ENGINE BRACKETS. MAKE SURE SUPPORT TUBE ALIGNS NEXT TO HOLES IN BRACKETS. LOOSELY ATTACH DETECTOR BRACKET TO UPPER ENGINE BRACKET WITH BOLTS (400) AND LOWER ENGINE BRACKET WITH BOLTS (405).   | CON | AR  |
| 400      | BACB30ZF4-06 | . BOLT   |     | 2   |
| 405      | BACB30ZF4-07 | . BOLT   |     | 2   |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 35

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F19954 S00041153978\_V1

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 18)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 36

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 28-1     |              | <b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 28-1, SHEET 18)</b><br><br>APPLY Never-Seez NSBT compound, D00006 (C2) UNDER HEAD OF BOLT (425) TO PREVENT DISTORTION AND TWISTING OF CLAMP DURING TORQUING. |     |     |
| 425      | BACB30ZF4-06 | . BOLT  |     | 1   |
| C2       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND   | CON | AR  |
|          |              | LOOSELY ATTACH SUPPORT TUBE OF DETECTOR (20) TO ENGINE BRACKET WITH LOOP CLAMP (430), CLAMPSHELLS (435) AND BOLT (425).   |     |     |
| 430      | 11777-08     | . LOOP CLAMP (V83930)   | VEN | 1   |
| 435      | 9352M41P04   | . CLAMPSHELL (V83930)   | VEN | 2   |
| 435      | BACC10GT2-08 | . CLAMPSHELL (OPTIONAL TO 9352M41P04)   | OPT | -   |
|          |              | MAKE SURE PRELOAD BETWEEN DETECTOR ASSY AND ATTACH POINTS IS NOT MORE THAN 10 POUNDS (44.5 NEWTONS). TIGHTEN BOLTS (400), THEN BOLT (425) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS).                |     |     |
|          |              | CHECK THAT RESISTANCE BETWEEN RESPONDER AND ENGINE CASE IS 0.010 OHMS MAXIMUM.  |     |     |
|          |              | CHECK THAT GAP BETWEEN SENSOR ELEMENTS AND SUPPORT TUBE IS NOT LESS THAN 0.12 INCH (3.0 MM).  |     |     |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 37

Jun 15/2016

D633A106-AKS

THIS SHEET NOT USED

U64289 S00041154064\_V2

| Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 19)

**71-00-02**

**P/P BUILDUP FIGURE 28-1**

Page 38

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 28-1     |             | FIRE/OVERHEAT DETECTOR INSTALLATION<br>(FIGURE 28-1, SHEET 19)<br><br>THIS SHEET NOT USED |    |     |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 39

Jun 15/2016

D633A106-AKS

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THIS SHEET NOT USED

U64289 S00041154064\_V2

| Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 20)

**71-00-02**

**P/P BUILDUP FIGURE 28-1**

Page 40

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

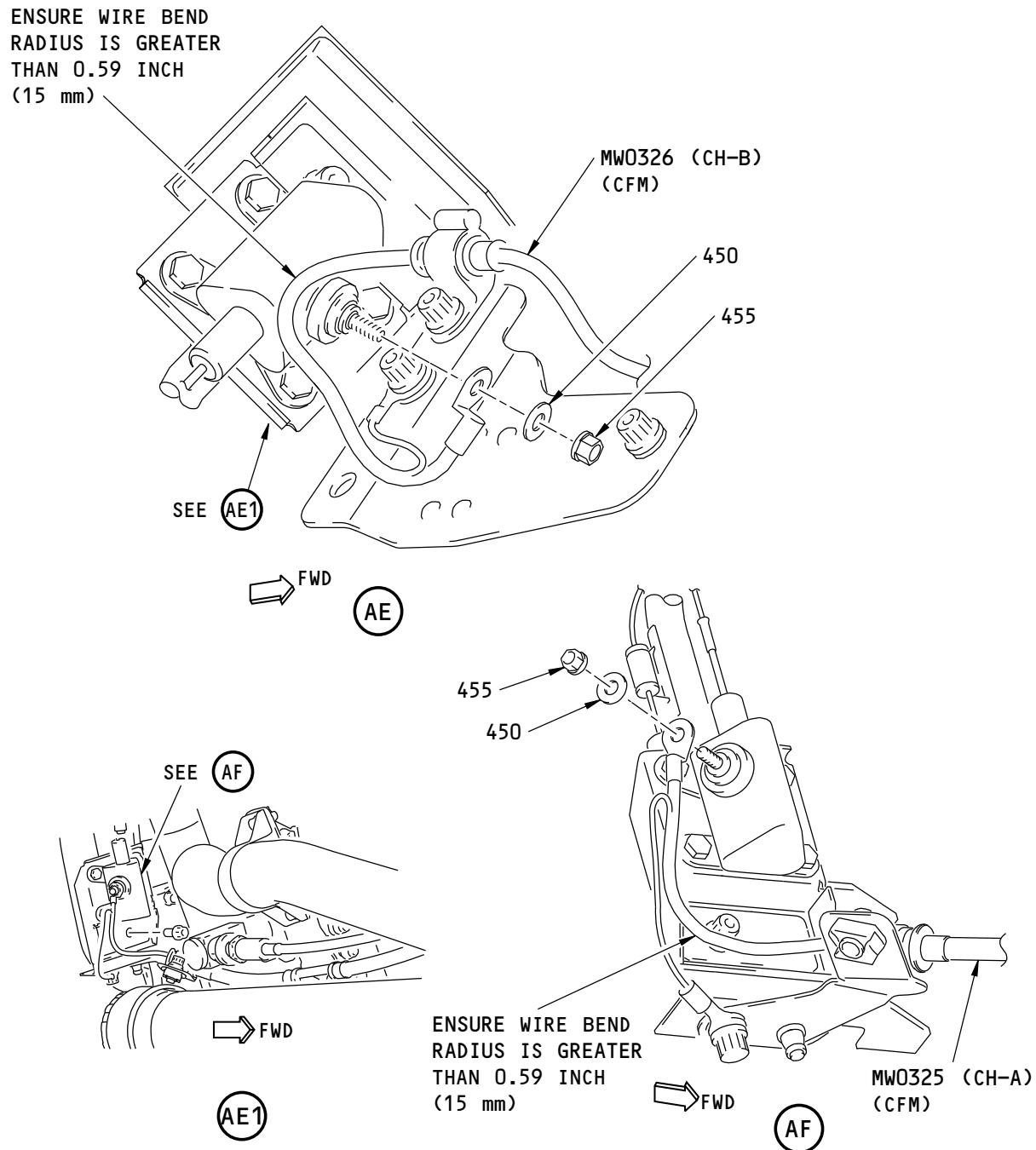
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 28-1     |             | FIRE/OVERHEAT DETECTOR INSTALLATION<br>(FIGURE 28-1, SHEET 20)<br><br>THIS SHEET NOT USED |    |     |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 41

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUALDETECTORS WITHOUT WIRE HARNESS BRACKETS  
(PRE-SB CFM56-7B-72-0981)

2026500 S0000403135\_V5

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 21)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 42

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 28-1     |               | <p><b>FIRE/OVERHEAT DETECTOR INSTALLATION<br/>(FIGURE 28-1, SHEET 21)</b></p> <p><b>DETECTORS WITHOUT WIRE HARNESS BRACKETS (PRE SB CFM56-7B-72-0981):</b></p> <p><b>CAUTION:</b> DO NOT BEND THE WIRE LUG. INCORRECT INSTALLATION CAN CAUSE WIRE LUG DAMAGE AND DETECTOR LOOP FAULTS.</p> <p>ATTACH W/B MW0326 (CFM) TO UPPER RESPONDER AND ATTACH W/B MW0325 (CFM) TO LOWER RESPONDER. PUT BOTH W/B LEADS ON EACH RESPONDER STUD AND SECURE WITH WASHER (450) AND NUT (455). TIGHTEN NUT TO 25-35 POUND-INCHES (2.8-4.0 NEWTON METERS). MINIMUM STUD THREAD PROTRUSION MUST BE FLUSH WITH TOP ON NUT.</p> |     |     |
| 450      | NAS1149C0316R | . WASHER (2 REQD)   | LTD | -   |
| 450      | NAS1149C0332R | . WASHER (OPTIONAL TO NAS1149C0316R) (2 REQD)   | OPT | -   |
| 455      | BACN10JC3C    | . NUT (SUPPLIED WITH F/O DETECTOR)  | REF | -   |
| 455      | BACN10YR3C    | . NUT (OPTIONAL TO BACN10JC3C) (2 REQD)   | OPT | -   |

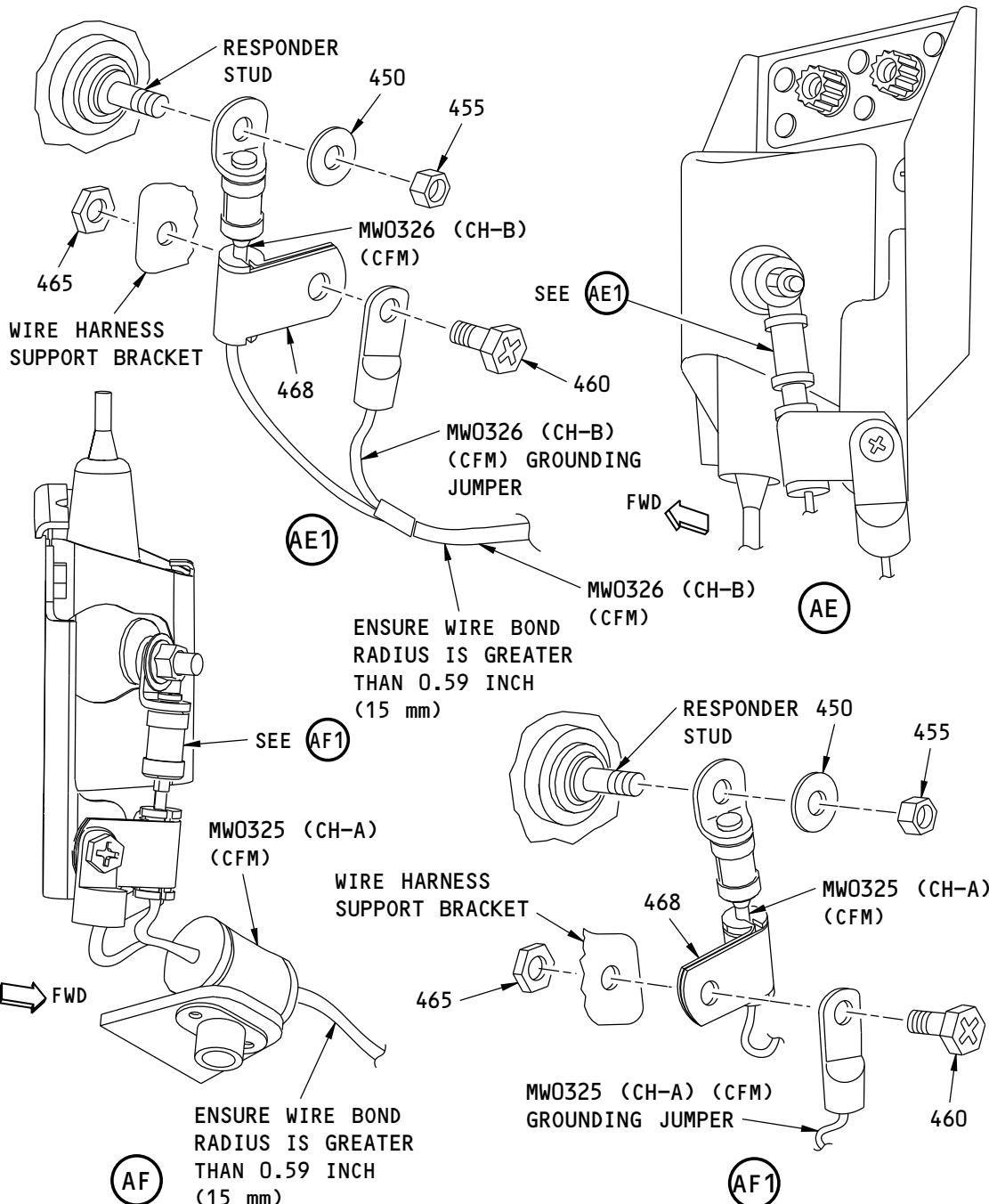
**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 43

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

ENGINES WITH PREFERRED MW0325 & MW0326 HARNESES WITH GROUND LUG & WIRE  
AND DETECTORS WITH WIRE HARNESS BRACKETS  
(POST-SB CFM56-7B-72-0981)

2463822 S0000572145\_V2

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 22)

71-00-02

P/P BUILDUP FIGURE 28-1

Page 44

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 28-1     |               | <p><b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 28-1, SHEET 22)</b></p> <p><u>ENGINES WITH PREFERRED MW0325 AND MW0326 HARNESES WITH GROUND LUG AND WIRE; AND DETECTORS WITH WIRE HARNESS BRACKETS (POST SB CFM56-7B-72-0981):</u></p> <p><b>CAUTION:</b> DO NOT BEND THE WIRE LUG. INCORRECT INSTALLATION CAN CAUSE WIRE LUG DAMAGE AND DETECTOR LOOP FAULTS.</p> <p>ATTACH W/B MW0326 (CFM) TO UPPER RESPONDER AND ATTACH W/B MW0325 (CFM) TO LOWER RESPONDER. PUT BOTH W/B LEADS ON EACH RESPONDER STUD AND SECURE WITH WASHER (450) AND NUT (455). TIGHTEN NUT TO 25-35 POUND-INCHES (2.8-4.0 NEWTON METERS). MINIMUM STUD THREAD PROTRUSION MUST BE FLUSH WITH TOP ON NUT.</p> <p>CLEAN MATING SURFACE OF WIRE HARNESS BRACKET AND BOTH SIDES OF THE CLAMP (368) WITH alcohol, B00130 (C1). MAKE SURE YOU REMOVE ALL GREASE AND OTHER CONTAMINANTS. ATTACH CLAMP (468) ON W/B MW0326 (CFM) AND GROUNDING JUMPER LUG TO WIRE HARNESS SUPPORT BRACKET WITH EXISTING SCREW (460) AND NUT (465). ATTACH CLAMP (468) ON W/B MW0325 (CFM) AND GROUNDING JUMPER LUG TO WIRE HARNESS SUPPORT BRACKET WITH EXISTING SCREW (460) AND NUT (465). TIGHTEN NUT (465) TO 34-36 POUND-INCHES (3.8-4.1 NEWTON METERS).</p> |     |     |
| 450      | NAS1149C0316R | . WASHER  |     | 2   |
| 450      | NAS1149C0432R | . WASHER (OPTIONAL TO NAS1149C0316R) (2 REQD)   | OPT | -   |
| 455      | MS21043-3     | . NUT (SUPPLIED WITH F/O DETECTOR)  | REF | -   |
| 455      | BACN10YR3C    | . NUT (OPTIONAL TO BACN10JC3C) (2 REQD)   | OPT | -   |
| 460      | NAS1802-3-6   | . SCREW (SUPPLIED WITH ENGINE)  | REF | -   |
| 465      | MS21043-3     | . NUT (SUPPLIED WITH ENGINE)  | REF | -   |
| 468      | MS122902      | . CLAMP (SUPPLIED WITH ENGINE)  | REF | -   |
| C1       | B00130        | . ALCOHOL   | CON | AR  |
|          |               | CHECK THAT RESISTANCE BETWEEN GROUNDING JUMPER LUG AND WIRE HARNESS SUPPORT BRACKET IS 0.005 OHMS MAXIMUM.  |     |     |

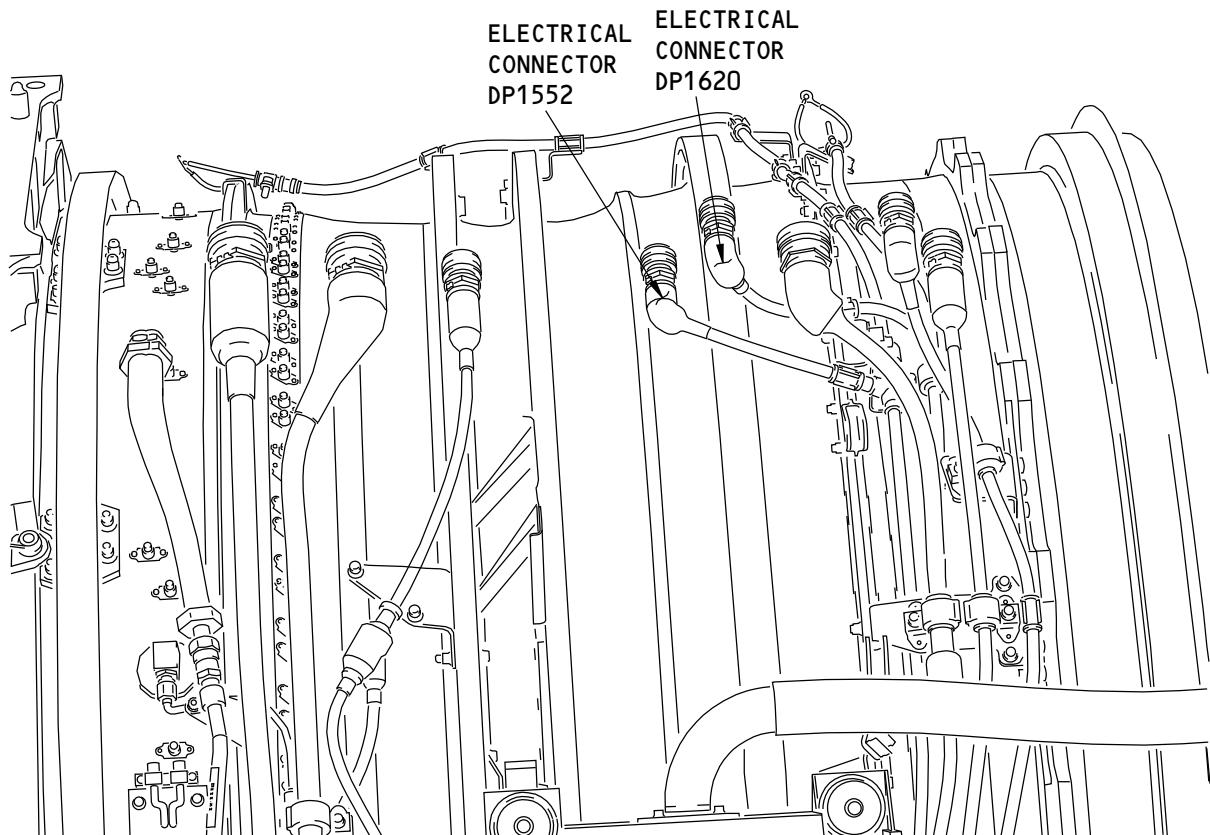
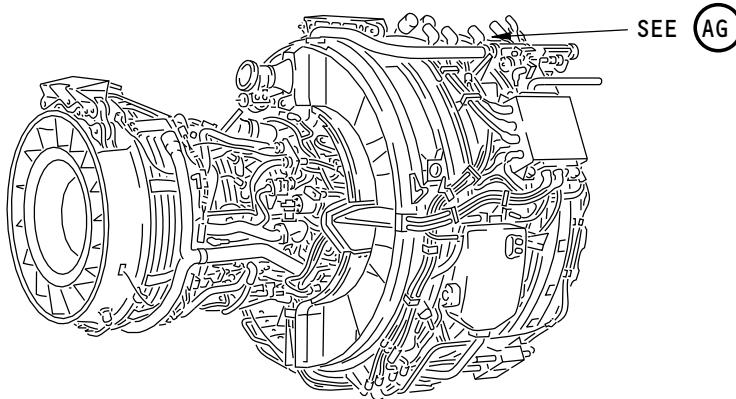
71-00-02

P/P BUILDUP FIGURE 28-1

Page 45

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

NOTE: SOME COMPONENTS NOT  
SHOWN FOR CLARITY.

AG

FWD

G12331 S00041153987\_V1

Fire/Overheat Detector Installation  
Figure 28-1 (Sheet 23)

D633A106-AKS

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71-00-02

P/P BUILDUP FIGURE 28-1

Page 46

Jun 15/2016

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 28-1     |             | <p><b>FIRE/OVERHEAT DETECTOR INSTALLATION (FIGURE 28-1, SHEET 23)</b></p> <p>DO A RESISTANCE TEST OF LOOP A OF THE FIRE/OVERHEAT DETECTORS AS FOLLOWS:</p> <ol style="list-style-type: none"> <li>1. ON THE TOP OF THE RIGHT FAN CASE, LOCATE THE CONNECTORS DP1552 (CFM).</li> <li>2. CHECK THE RESISTANCE BETWEEN PIN 1 ON CONNECTOR DP1552 AND GROUND.</li> <li>3. MAKE SURE THE RESISTANCE IS BETWEEN 822-902 OHMS.</li> </ol> <p>DO A RESISTANCE TEST OF LOOP B OF THE FIRE/OVERHEAT DETECTORS AS FOLLOWS:</p> <ol style="list-style-type: none"> <li>1. ON THE TOP OF THE RIGHT FAN CASE, LOCATE THE CONNECTORS DP1620 (CFM).</li> <li>2. CHECK THE RESISTANCE BETWEEN PIN 3 ON CONNECTOR DP1620 AND GROUND.</li> <li>3. MAKE SURE THE RESISTANCE IS BETWEEN 822-902 OHMS.</li> </ol> |    |     |

**71-00-02****P/P BUILDUP FIGURE 28-1**

Page 47

Jun 15/2016

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**FIGURE 29-1**

**W1062 WIRE BUNDLE INSTALLATION**

**REF QEC TASK NO.: 29**

**REF DWG: 332A2200**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

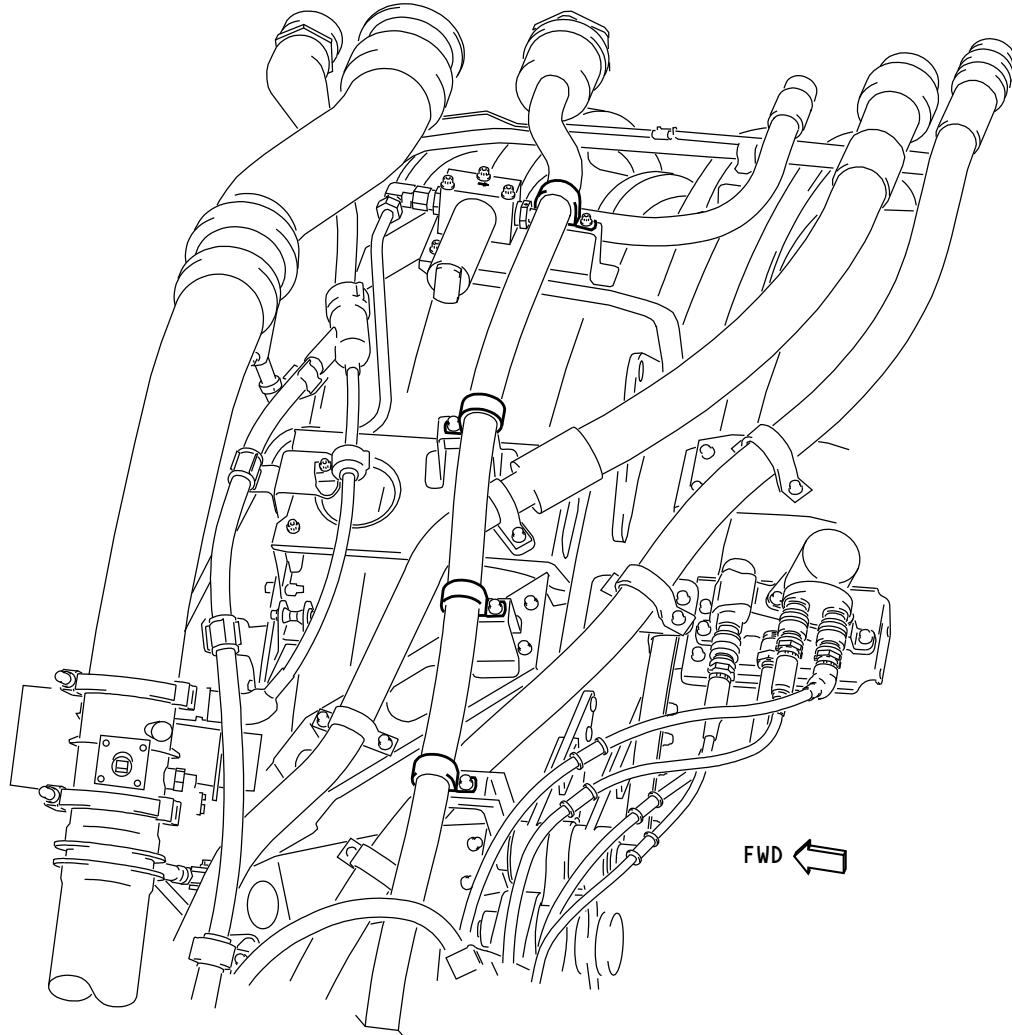
**P/P BUILDUP FIGURE 29-1**

Page 1

Jun 15/2016

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(SHEET 2)

1

## EXAMPLE OF WIRE BUNDLE INSTALLATION



DIAMOND WITH NUMBER INDICATES A CONTINUATION TO A DIAMOND  
WITH THE SAME NUMBER IN ANOTHER SHEET OR ILLUSTRATION.

F22736 S00041153990\_V1

W1062 Wire Bundle Installation  
Figure 29-1 (Sheet 1)

71-00-02

P/P BUILDUP FIGURE 29-1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 29-1     |             | <p><b>W1062 WIRE BUNDLE INSTALLATION<br/>(FIGURE 29-1, SHEET 1)</b></p> <p><b>NOTE:</b> THIS SHEET IS PROVIDED FOR INFORMATION PURPOSES ONLY.</p> <p>REVIEW ELECTRICAL HARNESS STANDARD PRACTICES (INTRODUCTION) BEFORE BEGINNING PROCEDURE.</p> <p>SYMBOLS TO AID IN THE USE OF THESE ILLUSTRATIONS ARE SHOWN ON THE PRECEDING PAGE.</p> |    |     |

**71-00-02**

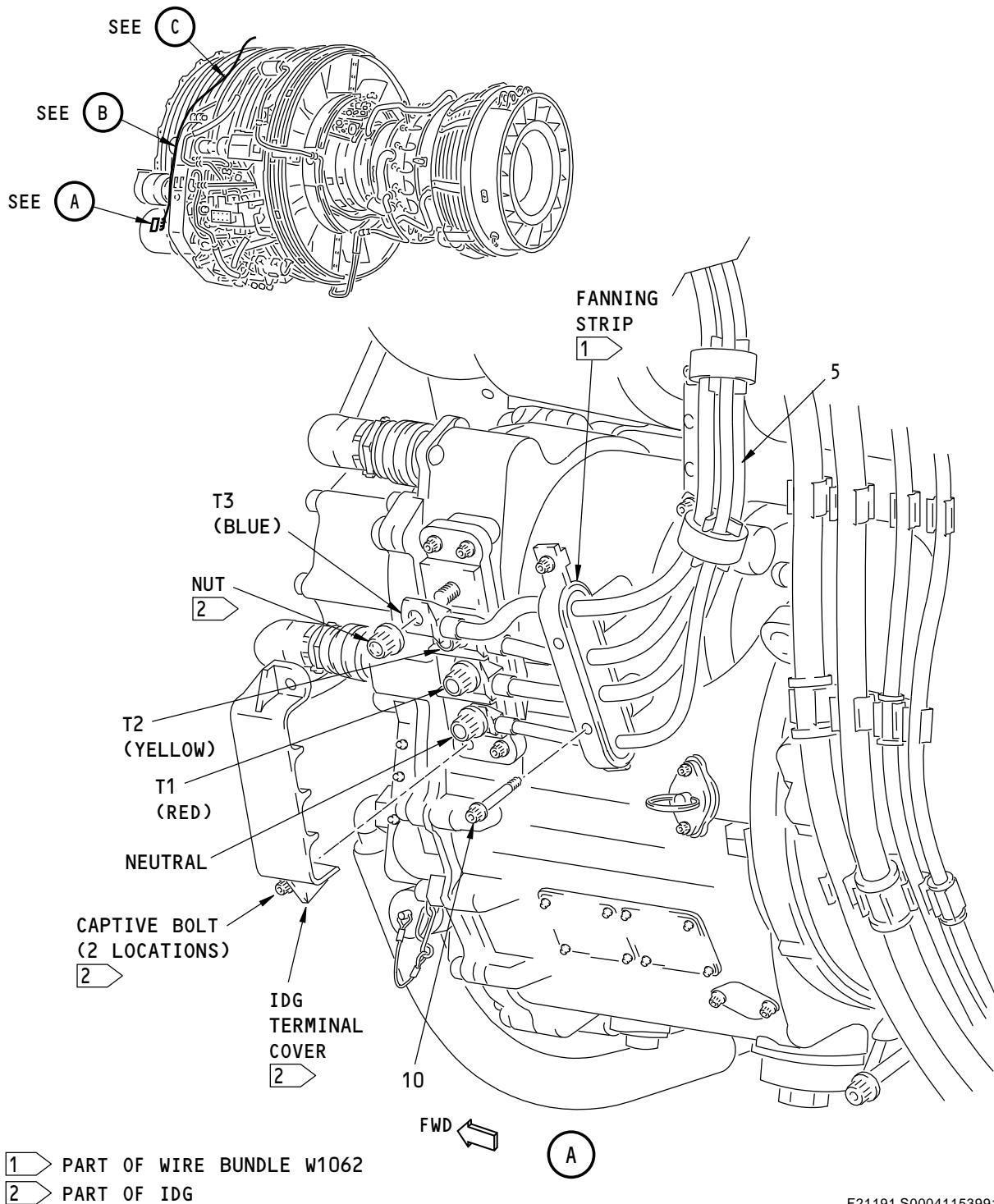
**P/P BUILDUP FIGURE 29-1**

Page 3

Jun 15/2016

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## **W1062 Wire Bundle Installation Figure 29-1 (Sheet 2)**

71-00-02

RE 29-1

Page 4

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

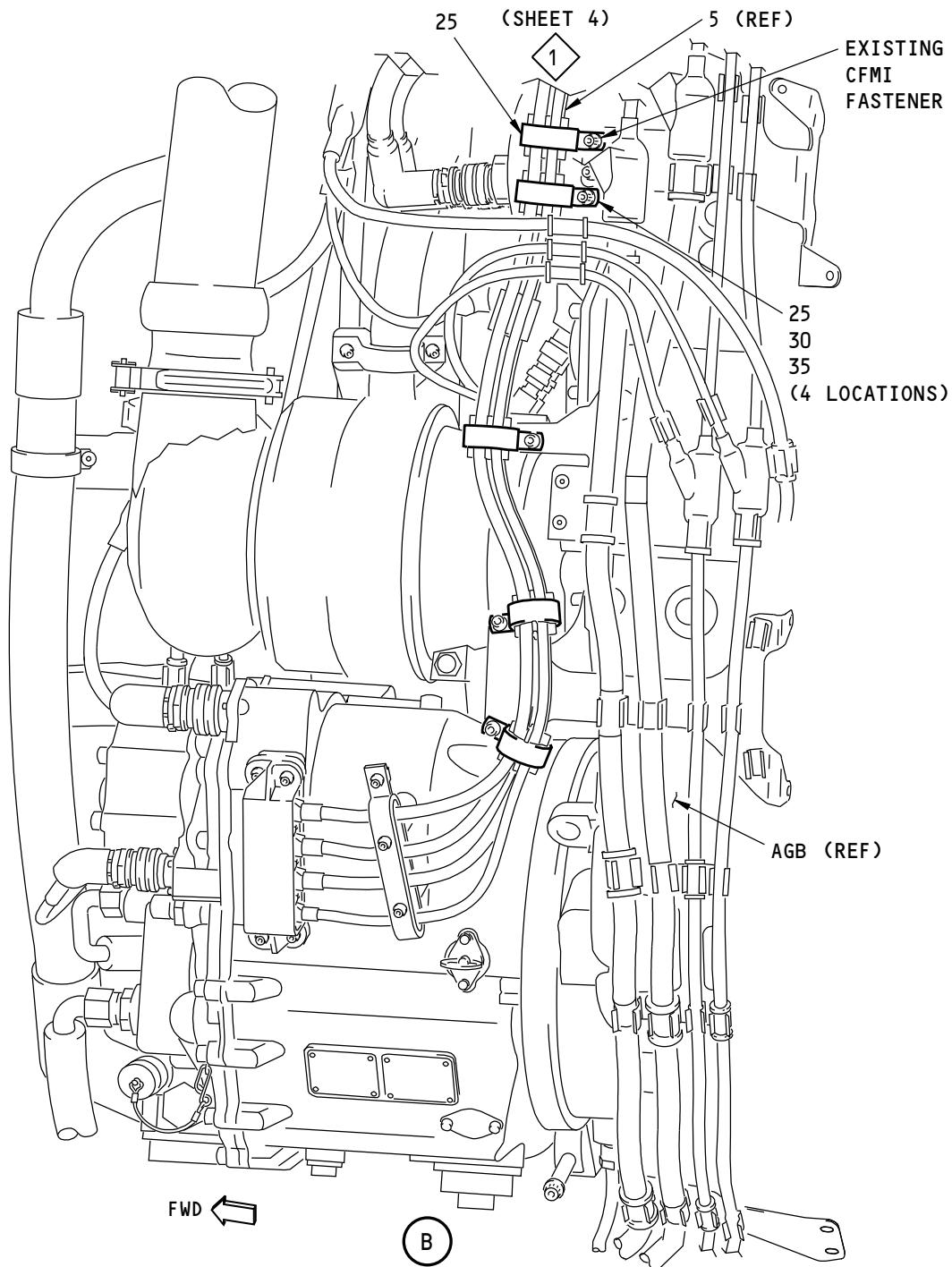
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY     |
|----------|--------------|---|-----|---------|
| 29-1     |              | <b>W1062 WIRE BUNDLE INSTALLATION<br/>(FIGURE 29-1, SHEET 2)</b><br><br>POSITION WIRE BUNDLE (5) ON LEFT SIDE OF FAN CASE WITH TERMINAL ENDS NEAR IDG STUDS.<br>. WIRE BUNDLE ASSEMBLY (W1062)<br>REMOVE AND RETAIN IDG TERMINAL COVER AND CAPTIVE VENDOR BOLTS.<br>INSTALL W/B W1062 (5) WIRE LUGS TO IDG TERMINAL BLOCK USING VENDOR NUTS. HOLD LEADS TO PREVENT ROTATION AND TIGHTEN VENDOR NUTS TO 144-168 POUND-INCHES (16.3-19.0 NEWTON METERS).<br>INSTALL IDG TERMINAL COVER USING CAPTIVE VENDOR BOLTS. TIGHTEN BOLTS TO 20-22 POUND-INCHES (2.3-2.5 NEWTON METERS).<br>APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS OF BOLTS (10). POSITION WIRE BUNDLE FANNING STRIP ON IDG AND SECURE WITH LUBRICATED BOLTS (10). TIGHTEN BOLTS (10) TO 48-53 POUND-INCHES (5.4-6.0 NEWTON METERS). |     |         |
| 5        | 286A1062-002 |   |     | 1       |
| 10       | BACB30ZF4-24 |   |     |         |
| C1       | D00006       | . BOLT<br>. NEVER-SEEZ NSBT-8N COMPOUND   | CON | 2<br>AR |

**71-00-02****P/P BUILDUP FIGURE 29-1**

Page 5

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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W1062 Wire Bundle Installation  
Figure 29-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 29-1

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 29-1     |              | <b>W1062 WIRE BUNDLE INSTALLATION</b><br><b>(FIGURE 29-1, SHEET 3)</b><br><br>AT FIVE LOCATIONS, CENTER CLAMPS (25) ON WIRE BUNDLE SPACERS AND LOOSELY ATTACH TO AGB BRACKETS USING BOLTS (30), NUTS (35) AND EXISTING CFMI FASTENER.<br><br><b>NOTE:</b> DO NOT TIGHTEN BOLTS AT THIS TIME. |     |     |
| 25       | TA025146-15  | . CLAMP (V84971)   | VEN | 5   |
| 30       | BACB30ZF4-08 | . BOLT   |     | 4   |
| 35       | AS3485-10    | . NUT  |     | 4   |

**71-00-02**

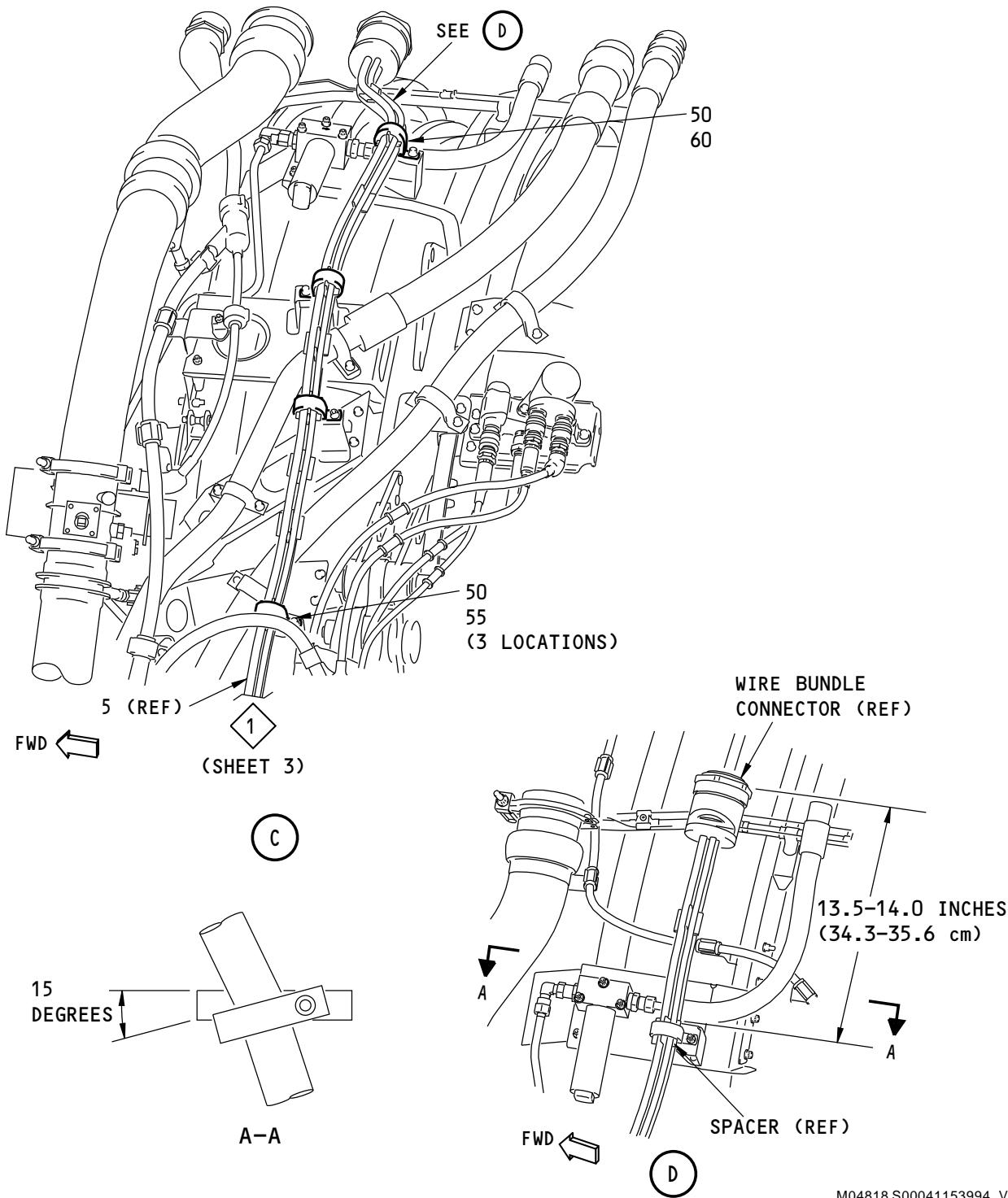
**P/P BUILDUP FIGURE 29-1**

Page 7

Jun 15/2016

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W1062 Wire Bundle Installation  
Figure 29-1 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 29-1

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 29-1     |              | <p><b>W1062 WIRE BUNDLE INSTALLATION<br/>(FIGURE 29-1, SHEET 4)</b></p> <p>AT FOUR LOCATIONS, CENTER CLAMPS (50) ON WIRE BUNDLE SPACERS AND LOOSELY ATTACH TO BRACKETS ON LEFT FAN CASE USING BOLTS (55 AND 60).</p> <p><b>NOTE:</b> DO NOT TIGHTEN BOLTS AT THIS TIME.</p>   |     |     |
| 50       | TA025146-15  | . CLAMP (V84971)  | VEN | 4   |
| 55       | BACB30ZF4-06 | . BOLT  |     | 3   |
| 60       | BACB30ZF4-07 | . BOLT  |     | 1   |
|          |              | <p>MAKE SURE WIRE BUNDLE (5) SPACER IS CENTERED IN UPPER CLAMP (50) AND MAKE SURE TOP CLAMP IS ORIENTED AS SHOWN. TIGHTEN BOLTS (55 AND 60). MEASURE DISTANCE BETWEEN TOP OF WIRE BUNDLE CONNECTOR AND SPACER WITH WIRE BUNDLE STRAIGHT. MEASUREMENT MUST BE 13.5-14.0 INCHES (34.3-35.6 CENTIMETERS). REPOSITION SPACER AS NECESSARY.</p> <p>ADJUST WIRE BUNDLE TO BEST POSITION AND TIGHTEN BOLTS (30, 55 AND 60) TO 110-120 POUND-INCHES (12.4-13.6 NEWTON METERS). TIGHTEN EXISTING CFMI FASTENER TO 98-110 POUND-INCHES (11.1-12.4 NEWTON METERS).</p> |     |     |

**71-00-02**

**P/P BUILDUP FIGURE 29-1**

Page 9

Jun 15/2016

D633A106-AKS

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**FIGURE 30-1**

**MARKERS INSTALLATION**

**REF QEC TASK NO.: 30**

**REF DWG: 330A2010  
330A2011**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

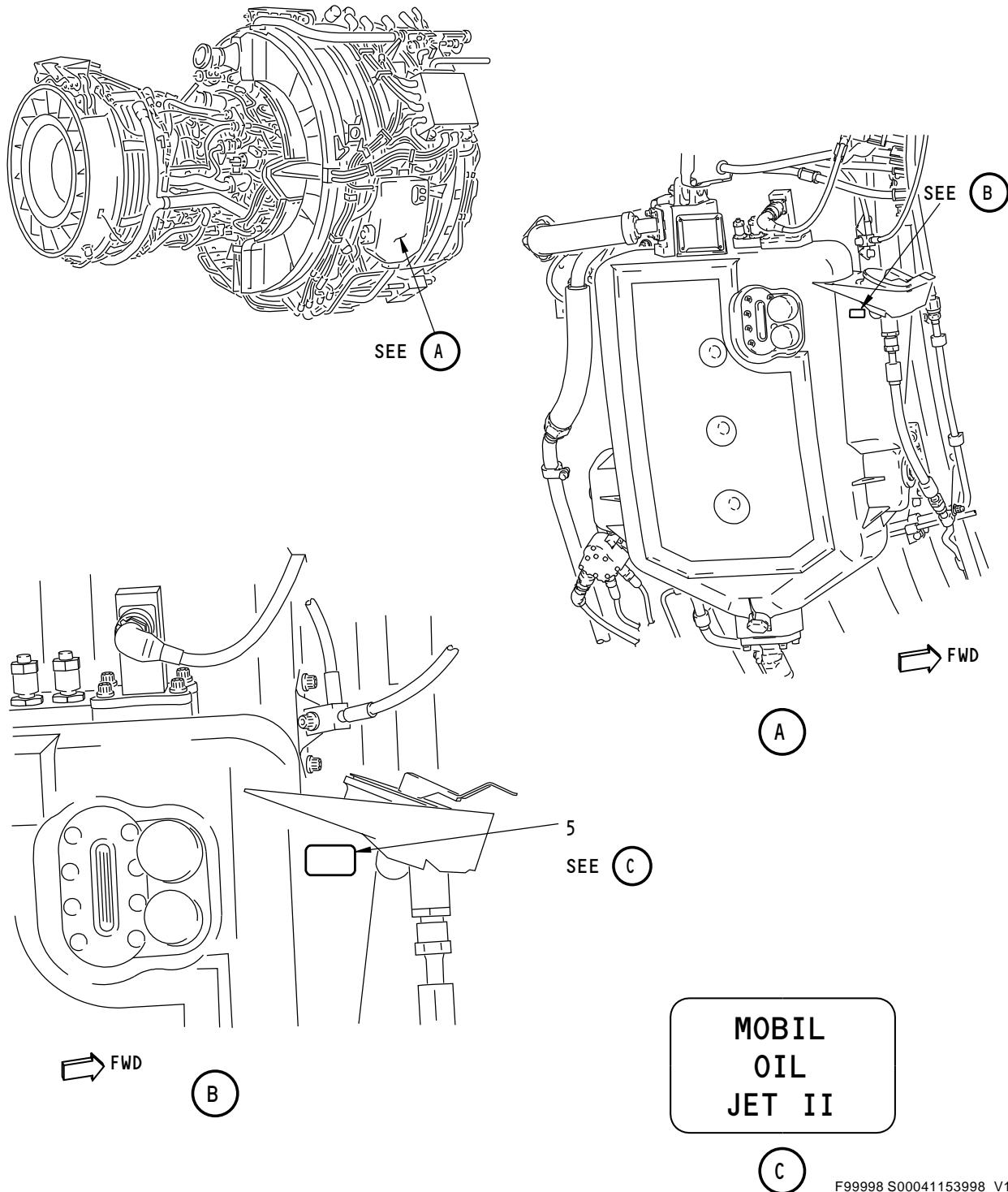
**P/P BUILDUP FIGURE 30-1**

**Page 1**

**Jun 15/2016**

**D633A106-AKS**

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**Markers Installation**  
**Figure 30-1 (Sheet 1)**

**71-00-02****P/P BUILDUP FIGURE 30-1**

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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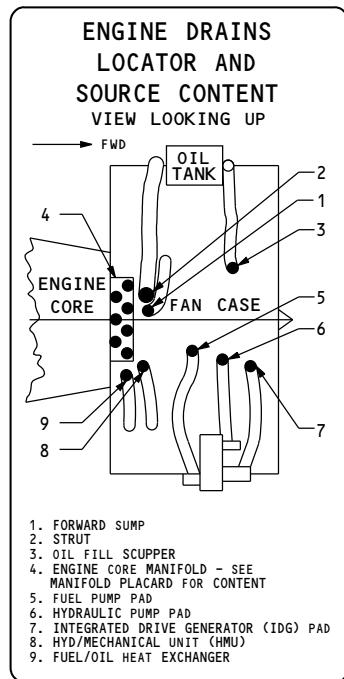
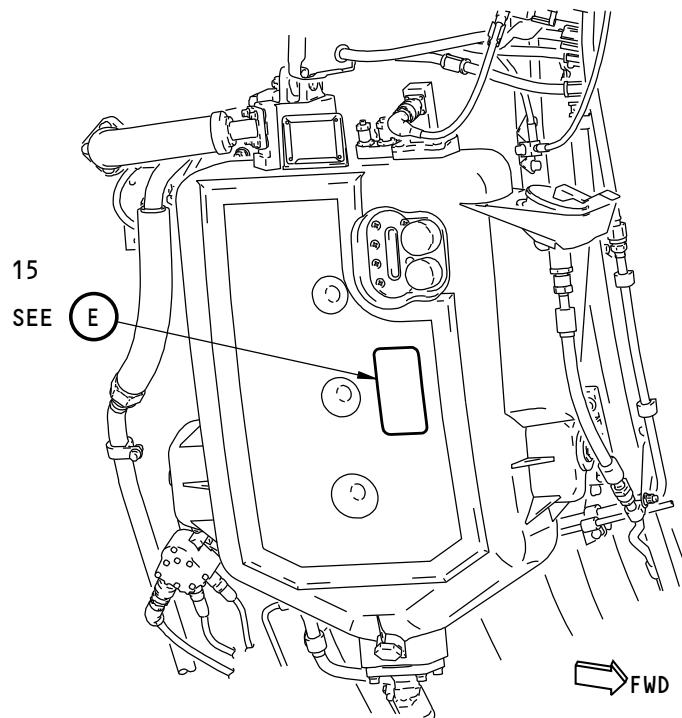
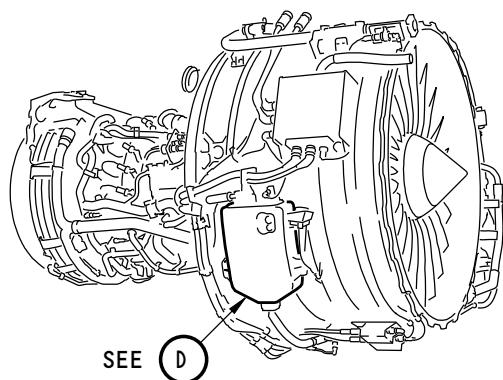
| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 30-1     |             | <b>MARKERS INSTALLATION</b><br><b>(FIGURE 30-1, SHEET 1)</b><br><br><u>CAUTION:</u> APPROPRIATE OIL USAGE MARKERS MUST BE INSTALLED TO IDENTIFY THE BRAND USED BY OPERATOR. MIXING OF OIL BRANDS MAY CAUSE DAMAGE TO ENGINE AND ACCESSORIES AND VOID WARRANTIES.<br><br>CLEAN DESIGNATED SURFACE WITH solvent, B00083 (C1) AND WIPE DRY PRIOR TO MARKER INSTALLATION. |     |     |
| C1       | B00083      | . SOLVENT<br>INSTALL MARKER (5) ON OIL TANK SCUPPER DRAIN.  | CON | AR  |
| 5        | BACM10L1EBZ | . ALUMINUM FOIL MARKER  |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 30-1**

Page 3

Jun 15/2016

D633A106-AKS



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**Markers Installation  
Figure 30-1 (Sheet 2)**

**71-00-02**

**P/P BUILDUP FIGURE 30-1**

**Page 4**

**Jun 15/2016**

**D633A106-AKS**

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 30-1     |             | <b>MARKERS INSTALLATION<br/>(FIGURE 30-1, SHEET 2)</b>   |     |     |
| C1       | B00083      | CLEAN DESIGNATED SURFACE WITH solvent, B00083 (C1) AND<br>WIPE DRY PRIOR TO MARKER INSTALLATION.<br>. SOLVENT<br>INSTALL MARKER (15) ON OIL TANK BELOW OIL LEVEL SIGHT<br>GLASS. | CON | AR  |
| 15       | BAC27DPP470 | . ALUMINUM FOIL MARKER, DRAIN LOCATOR  |     | 1   |

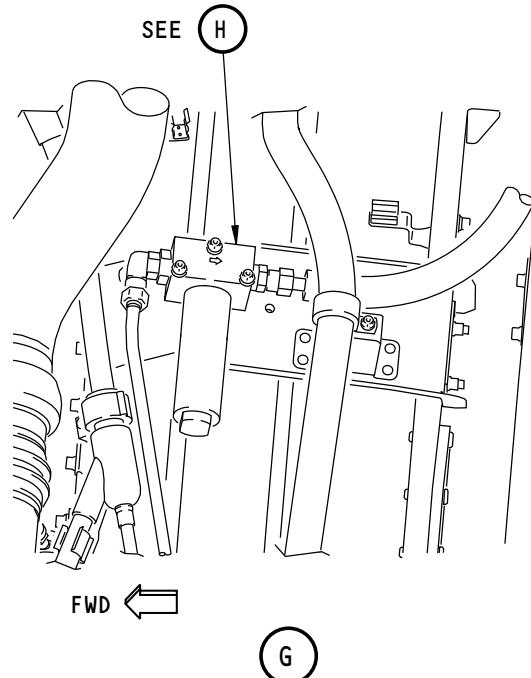
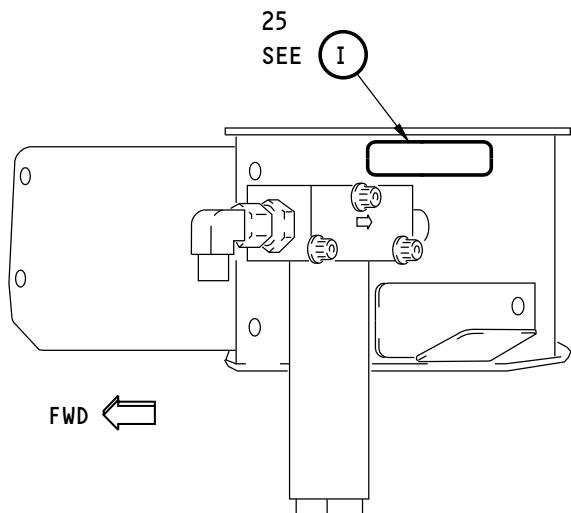
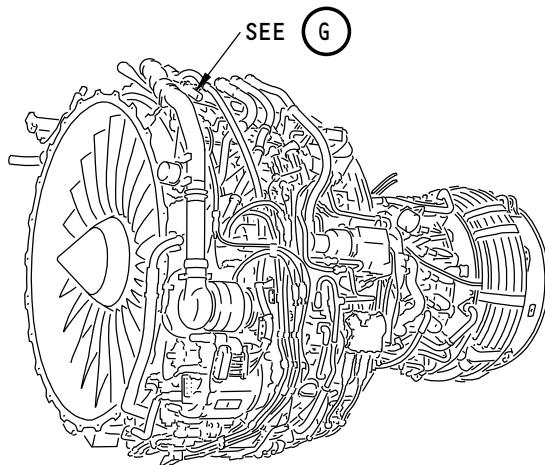
**71-00-02****P/P BUILDUP FIGURE 30-1**

Page 5

Jun 15/2016

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**Markers Installation**  
Figure 30-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 30-1

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 30-1     |              | <b>MARKERS INSTALLATION<br/>(FIGURE 30-1, SHEET 3)</b>  |     |     |
| C1       | B00083       | CLEAN DESIGNATED SURFACE WITH solvent, B00083 (C1) AND WIPE DRY PRIOR TO MARKER INSTALLATION.<br>. SOLVENT<br>INSTALL MARKER (25) ON BRACKET ABOVE HYDRAULIC CASE DRAIN FILTER. | CON | AR  |
| 25       | BAC27DHY0337 | . ALUMINUM FOIL MARKER, CASE DRAIN FILTER   |     | 1   |

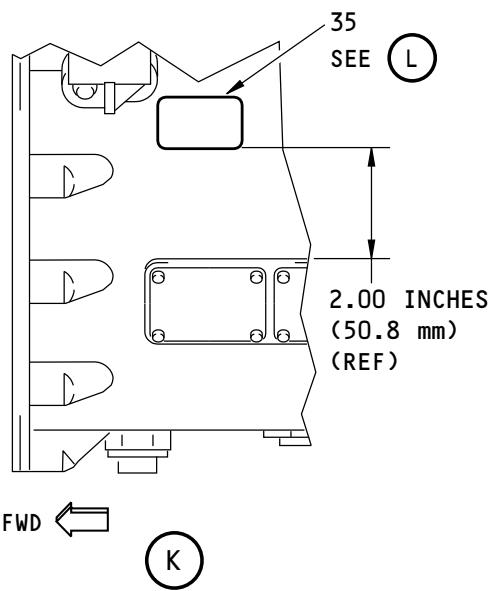
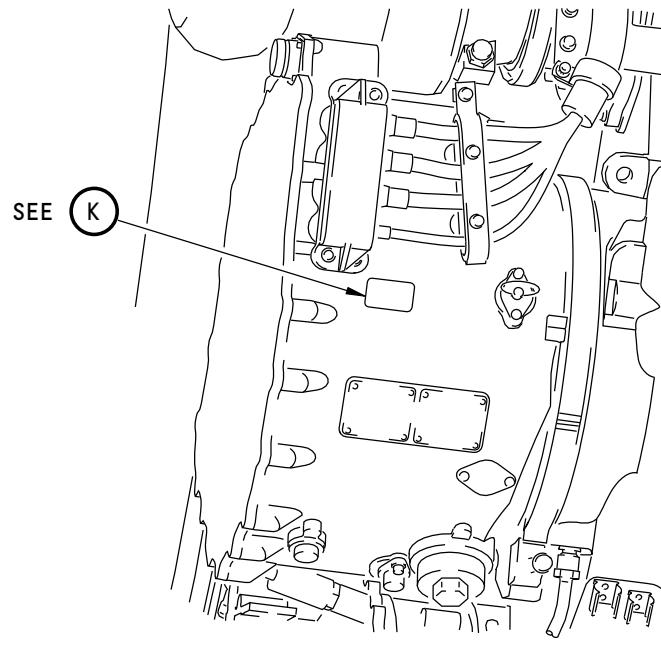
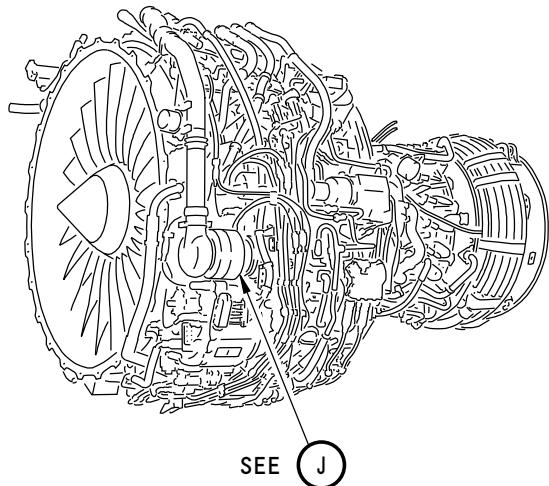
**71-00-02****P/P BUILDUP FIGURE 30-1**

Page 7

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

MOBIL  
OIL  
JET II

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**Markers Installation**  
**Figure 30-1 (Sheet 4)**

**71-00-02**  
**P/P BUILDUP FIGURE 30-1**

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 30-1     |             | <b>MARKERS INSTALLATION</b><br><b>(FIGURE 30-1, SHEET 4)</b><br><br><u>CAUTION:</u> APPROPRIATE OIL USAGE MARKERS MUST BE<br>INSTALLED TO IDENTIFY THE BRAND USED BY<br>OPERATOR. MIXING OF OIL BRANDS MAY CAUSE<br>DAMAGE TO ENGINE AND ACCESSORIES AND VOID<br>WARRANTIES.<br><br>CLEAN DESIGNATED SURFACE WITH solvent, B00083 (C1) AND<br>WIPE DRY PRIOR TO MARKER INSTALLATION. |     |     |
| C1       | B00083      | . SOLVENT<br>INSTALL MARKER (35) ON IDG.   | CON | AR  |
| 35       | BACM10L1EBZ | . ALUMINUM FOIL MARKER   |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 30-1**

Page 9

Jun 15/2016

D633A106-AKS

THIS SHEET NOT USED

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**Markers Installation**  
**Figure 30-1 (Sheet 5)**

**71-00-02**

**P/P BUILDUP FIGURE 30-1**

Page 10

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 30-1     |             | MARKERS INSTALLATION<br>(FIGURE 30-1, SHEET 5)<br><br>THIS SHEET NOT USED |    |     |

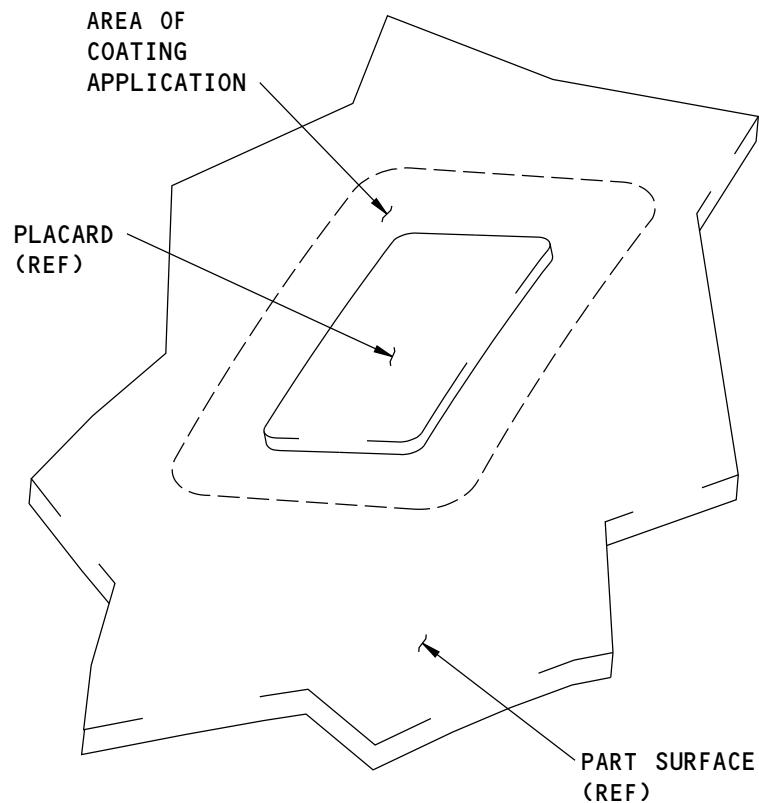
**71-00-02****P/P BUILDUP FIGURE 30-1**

Page 11

Jun 15/2016

D633A106-AKS

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**Markers Installation  
Figure 30-1 (Sheet 6)****71-00-02****P/P BUILDUP FIGURE 30-1**

Page 12

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO.   | PART NUMBER                  | NOMENCLATURE   | UC                | QTY          |
|------------|------------------------------|--|-------------------|--------------|
| 30-1<br>C1 | B00083                       | <p><b>MARKERS INSTALLATION<br/>(FIGURE 30-1, SHEET 6)</b></p> <p>CLEAN MARKERS (5), (15), (25) AND (35) AND ADJACENT SURFACE WITH solvent, B00083 (C1).</p> <p>. SOLVENT</p> <p>MIX THE COATING AS FOLLOWS:</p> <ol style="list-style-type: none"> <li>1. MIX 2 PARTS BASE 683-3-20 WITH 1 PART CATALYST X-310A.</li> </ol> <p><b>NOTE:</b> POT LIFE IS 30 MINUTES AT 70°F.</p> <ol style="list-style-type: none"> <li>2. APPLY coating, B00571 (C2) TO EDGE OF MARKERS WITH BRUSH TO A DEPTH OF 0.001-0.002 INCHES (0.025-0.051 MM).</li> <li>3. LET THE COATING AIR DRY FOR 30 MINUTES.</li> </ol> <p><b>NOTE:</b> MINIMUM CURE BEFORE OUTDOOR EXPOSURE IS 30 MINUTES. FULL CURE IS 14 DAYS.</p> | CON               | AR           |
| C2         | B00571<br>683-3-20<br>X-310A | <p>. COATING</p> <p>. . BASE (PART OF B00571)</p> <p>. . CATALYST (PART OF B00571)</p>   | CON<br>REF<br>REF | AR<br>-<br>- |

**71-00-02****P/P BUILDUP FIGURE 30-1**

Page 13

Jun 15/2016

D633A106-AKS

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**FIGURE 31-1**

**THRUST LINK INSTALLATION**

**REF QEC TASK NO.: 31**

**REF DWG: 310A2040  
301A2092**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

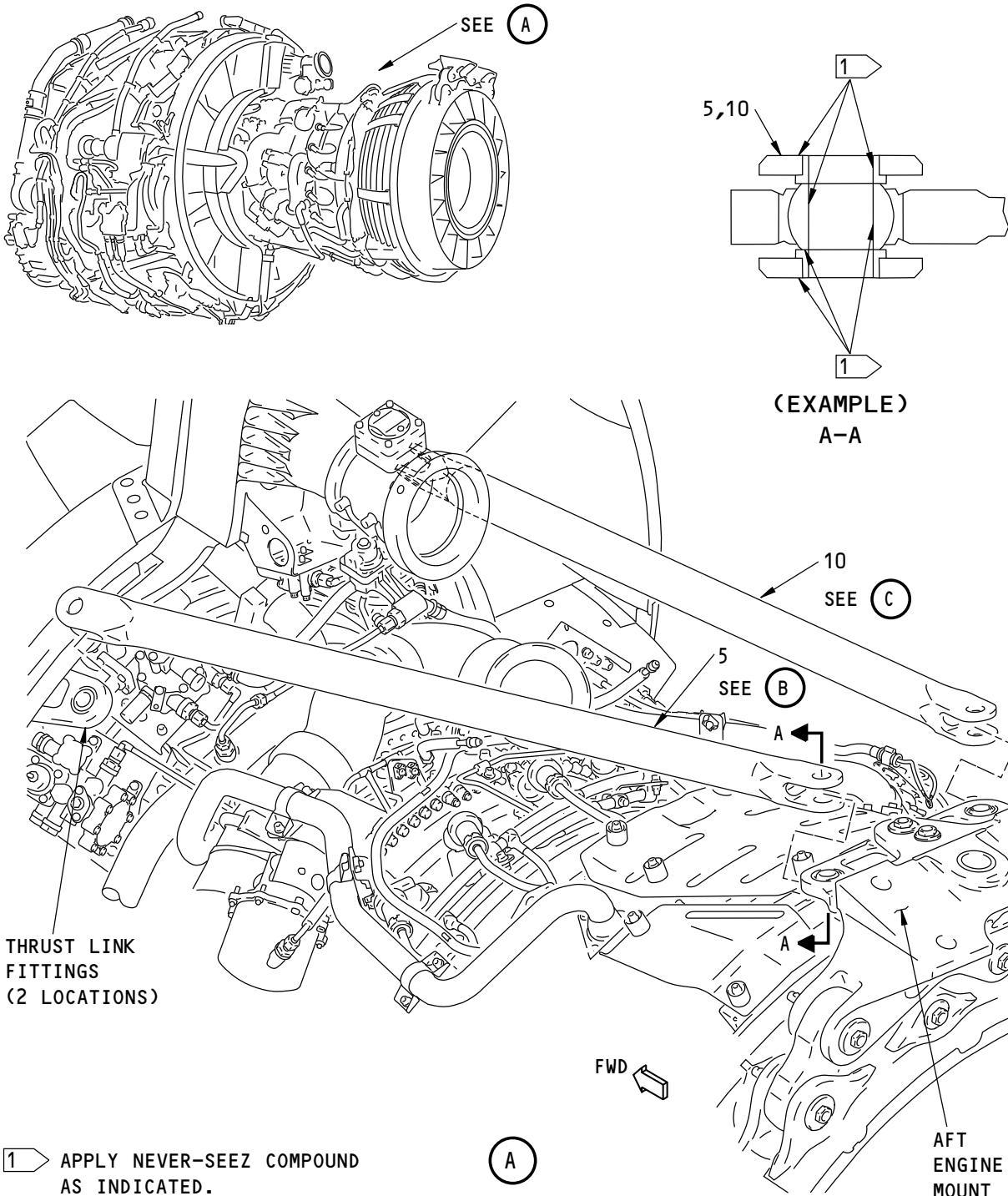
**P/P BUILDUP FIGURE 31-1**

Page 1

Jun 15/2016

D633A106-AKS

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**Thrust Link Installation**  
**Figure 31-1 (Sheet 1)**

**71-00-02****P/P BUILDUP FIGURE 31-1**

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

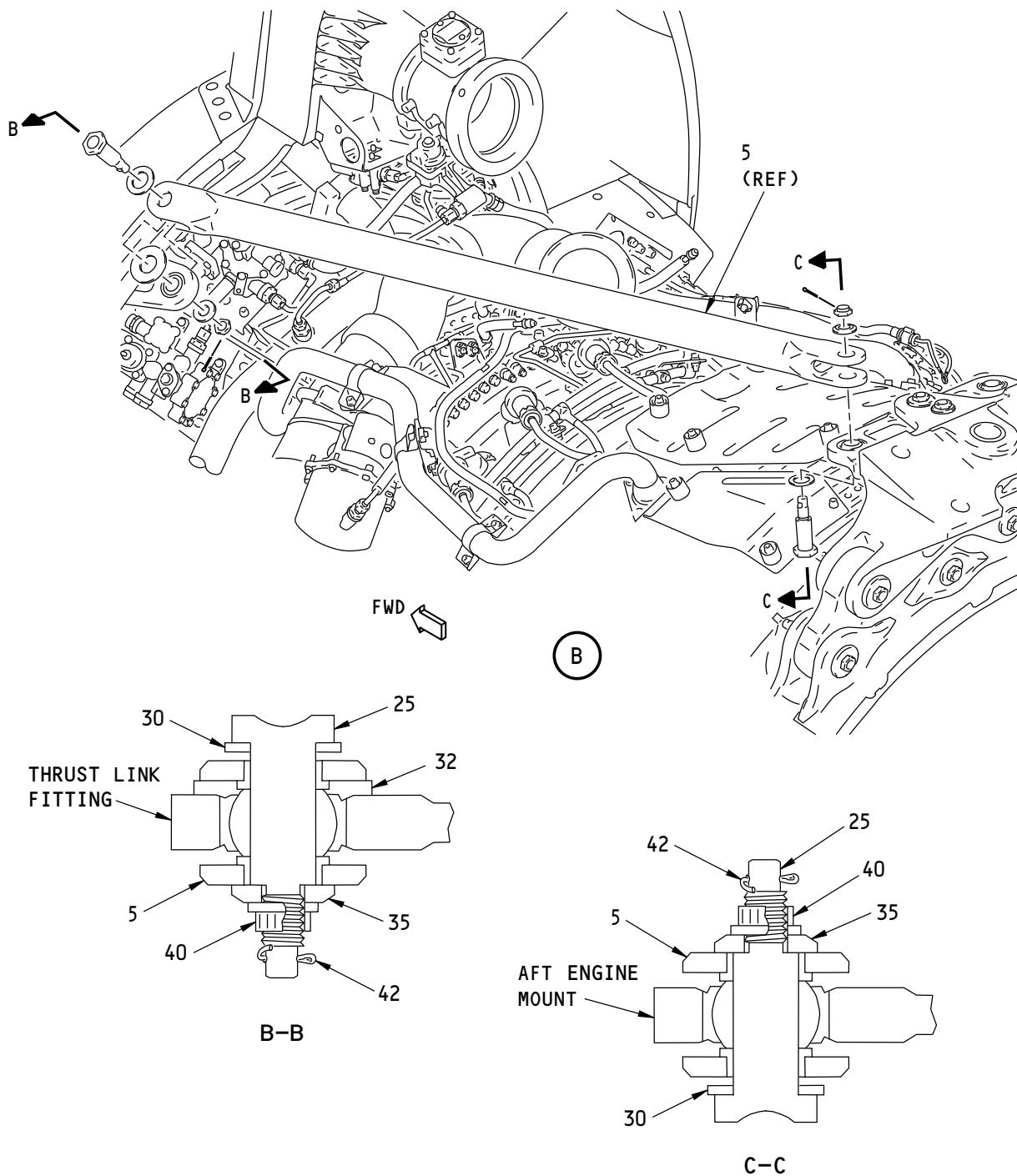
| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 31-1     |             | <b>THRUST LINK INSTALLATION</b><br><b>(FIGURE 31-1, SHEET 1)</b><br><br>APPLY Never-Seez NSBT compound, D00006 (C1) TO SPHERICAL BEARING BORES AND BALL FLAT SURFACES OF THRUST LINK FITTINGS ON ENGINE FAN FRAME AND AFT ENGINE MOUNT ATTACH POINTS.<br><br>APPLY Never-Seez NSBT compound, D00006 (C1) TO BUSHING BORES AND FLANGE FACES AT EACH END OF TWO THRUST LINKS (5) AND (10). |     |     |
| 5        | 310A2041-9  | . THRUST LINK ASSY, LEFT   |     | 1   |
| 10       | 310A2041-10 | . THRUST LINK ASSY, RIGHT  |     | 1   |
| C1       | D00006      | . NEVER-SEEZ NSBT-8N COMPOUND  | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 31-1**

Page 3

Jun 15/2016

D633A106-AKS



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**Thrust Link Installation  
Figure 31-1 (Sheet 2)**

**71-00-02****P/P BUILDUP FIGURE 31-1**

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

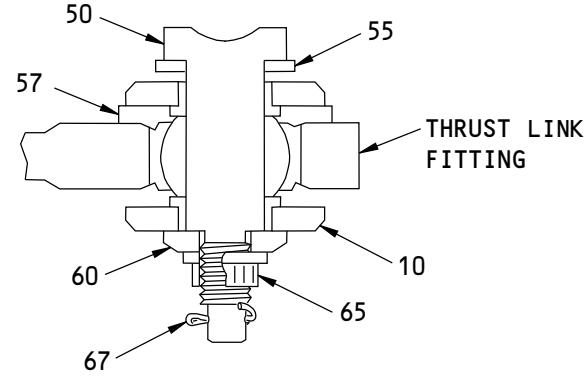
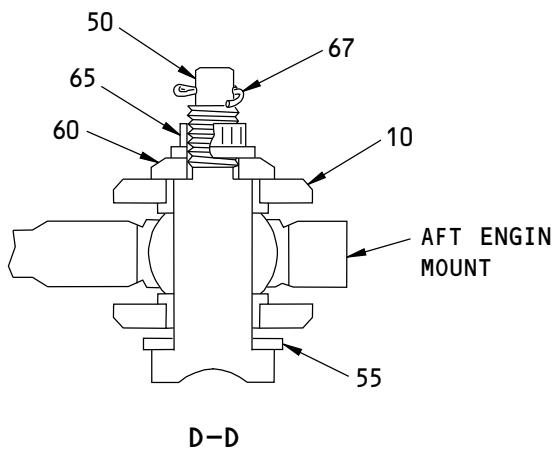
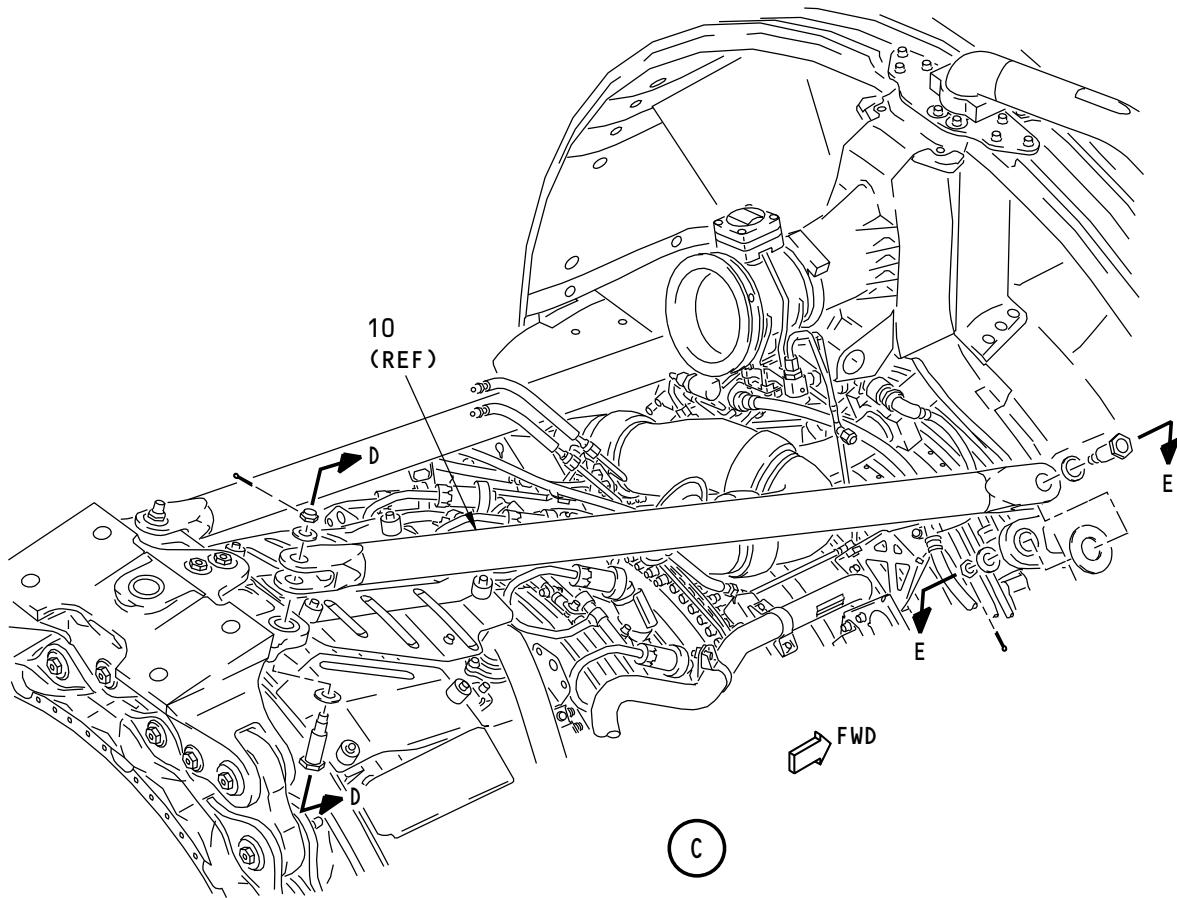
| ITEM NO. | PART NUMBER    | NOMENCLATURE   | UC  | QTY |
|----------|----------------|--|-----|-----|
| 31-1     |                | THRUST LINK INSTALLATION<br>(FIGURE 31-1, SHEET 2)   |     |     |
| 25       | 310A2042-3     | APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS, SHANK AND UNDERNEATH HEAD OF PINS (25).  |     | 2   |
| C1       | D00006         | <ul style="list-style-type: none"> <li>. THRUST LINK PIN</li> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> </ul>   | CON | AR  |
|          |                | INSTALL LEFT THRUST LINK ASSY (5) BETWEEN FAN CASE FITTING AND AFT ENGINE MOUNT ATTACH FITTINGS. USE LUBRICATED THRUST LINK PINS (25), WASHERS (30), WASHER (32), END CAPS (35) AND NUTS (40). |     |     |
| 30       | BACW10BP12ACU  | <ul style="list-style-type: none"> <li>. WASHER (CSK)</li> </ul>   |     | 2   |
| 32       | 310A2040-7     | <ul style="list-style-type: none"> <li>. WASHER (CSK TOWARDS SPHERICAL BEARING)</li> </ul>   |     | 1   |
| 35       | 310A2043-2     | <ul style="list-style-type: none"> <li>. END CAP (FLAT SIDE TOWARDS PIN SHOULDER)</li> </ul>   |     | 2   |
| 40       | BACN10JC8CM    | <ul style="list-style-type: none"> <li>. NUT</li> </ul>  |     | 2   |
|          |                | TIGHTEN NUTS (40) TO 290-510 POUND-INCHES (32.8-57.6 NEWTON METERS). APPLY TORQUE TO EITHER NUT OR PIN HEAD.   |     |     |
|          |                | INSTALL COTTER PINS (42).  |     |     |
| 42       | BACP18BC03B06P | <ul style="list-style-type: none"> <li>. COTTER PIN</li> </ul>   |     | 2   |
| 42       | BACP18BC03B07P | <ul style="list-style-type: none"> <li>. COTTER PIN (OPTIONAL TO BACP18BC03B06P)</li> </ul>  | OPT | -   |
| 42       | BACP18BC03B08P | <ul style="list-style-type: none"> <li>. COTTER PIN (OPTIONAL TO BACP18BC03B06P)</li> </ul>  | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 31-1**

Page 5

Jun 15/2016

D633A106-AKS



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**Thrust Link Installation**  
**Figure 31-1 (Sheet 3)**

**71-00-02**  
**P/P BUILDUP FIGURE 31-1**

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER    | NOMENCLATURE   | UC  | QTY |
|----------|----------------|--|-----|-----|
| 31-1     |                | <b>THRUST LINK INSTALLATION<br/>(FIGURE 31-1, SHEET 3)</b>   |     |     |
| 50       | 310A2042-3     | APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS, SHANK AND UNDERNEATH HEAD OF PINS (50).  |     | 2   |
| C1       | D00006         | <ul style="list-style-type: none"> <li>. THRUST LINK PIN</li> <li>. NEVER-SEEZ NSBT-8N COMPOUND</li> </ul>   | CON | AR  |
|          |                | INSTALL RIGHT THRUST LINK ASSY (10) BETWEEN FAN CASE FITTING AND AFT ENGINE MOUNT ATTACH FITTINGS. USE LUBRICATED PINS (50), WASHERS (55), WASHER (57), END CAPS (60) AND NUTS (65). |     |     |
| 55       | BACW10BP12ACU  | <ul style="list-style-type: none"> <li>. WASHER (CSK)</li> </ul>   |     | 2   |
| 57       | 310A2040-7     | <ul style="list-style-type: none"> <li>. WASHER (CSK TOWARDS SPHERICAL BEARING)</li> </ul>   |     | 1   |
| 60       | 310A2043-2     | <ul style="list-style-type: none"> <li>. END CAP (FLAT SIDE TOWARDS PIN SHOULDER)</li> </ul>   |     | 2   |
| 65       | BACN10JC8CM    | <ul style="list-style-type: none"> <li>. NUT</li> </ul>  |     | 2   |
|          |                | TIGHTEN NUTS (65) TO 290-510 POUND-INCHES (32.8-57.6 NEWTON METERS). APPLY TORQUE TO EITHER NUT OR PIN HEAD.   |     |     |
|          |                | INSTALL COTTER PINS (67).  |     |     |
| 67       | BACP18BC03B06P | <ul style="list-style-type: none"> <li>. COTTER PIN</li> </ul>   |     | 2   |
| 67       | BACP18BC03B07P | <ul style="list-style-type: none"> <li>. COTTER PIN (OPTIONAL TO BACP18BC03B06P)</li> </ul>  | OPT | -   |
| 67       | BACP18BC03B08P | <ul style="list-style-type: none"> <li>. COTTER PIN (OPTIONAL TO BACP18BC03B06P)</li> </ul>  | OPT | -   |
|          |                | REMOVE PROTECTIVE PAD FROM AFT ENGINE MOUNT (INSTALLED IN AFT ENGINE MOUNT INSTALLATION/Figure 3-1).   |     |     |

**71-00-02****P/P BUILDUP FIGURE 31-1**

Page 7

Jun 15/2016

D633A106-AKS

**FIGURE 32-2**

**PRIMARY EXHAUST INSTALLATION**

**REF QEC TASK NO.: 32**

**REF DWG: 333A2100**

**NOTE:** ALL STANDARDS AND ATTACHING HARDWARE FOR THIS FIGURE WILL BE PACKAGED IN QEC  
TASK NO. 110.

**71-00-02**

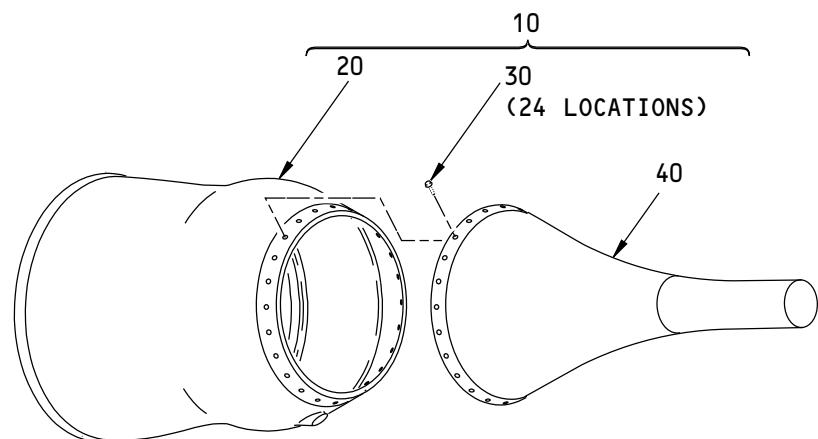
**P/P BUILDUP FIGURE 32-2**

Page 1

Jun 15/2016

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**Primary Exhaust Installation**  
**Figure 32-2 (Sheet 1)**

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 32-2     |              | <b>PRIMARY EXHAUST INSTALLATION</b><br><b>(FIGURE 32-2, SHEET 1)</b><br><br><u>CAUTION:</u> MAKE SURE THAT THE CONFIGURATION OF THE PRIMARY EXHAUST NOZZLE/PLUG IS CORRECT FOR THE STRUT. AN INCORRECT CONFIGURATION CAN CAUSE DAMAGE TO EQUIPMENT.<br><br><u>NOTE:</u> THE FWD PLUG AND AFT PLUG ARE A MATCHED SET AND MUST BE MAINTAINED TOGETHER.<br><br>LOCATE THE PRIMARY PLUG ASSY (10) CONSISTING OF FWD (20) AND AFT (40) PLUG ASSYS AND BOLTS (30). |     |     |
| 10       | 314A2640-100 | . PRIMARY PLUG ASSY  | 1   |     |
| 20       | 314A2640-34  | . . FWD PLUG ASSY (PART OF 314A2640-100) (QTY 1)   | REF | -   |
| 30       | BACB30LT4U2  | . . BOLT (PART OF 314A2640-100) (QTY 24)   | REF | -   |
| 40       | 314A2640-17  | . . AFT PLUG ASSY (PART OF 314A2640-100) (QTY 1)   | REF | -   |

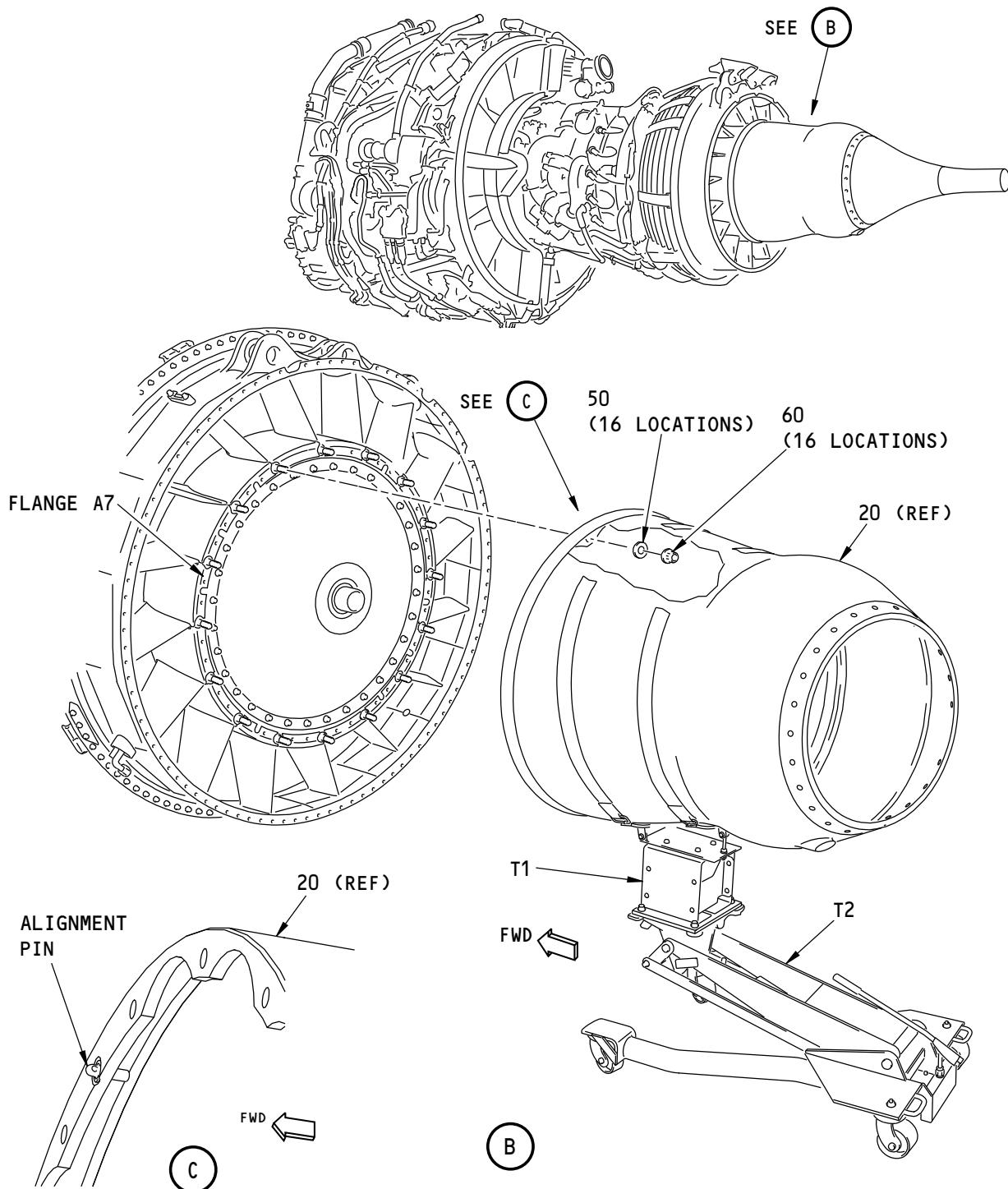
**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 3

Jun 15/2016

D633A106-AKS

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POWERPLANT BUILDUP MANUAL

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Primary Exhaust Installation  
Figure 32-2 (Sheet 2)

71-00-02

P/P BUILDUP FIGURE 32-2

Page 4

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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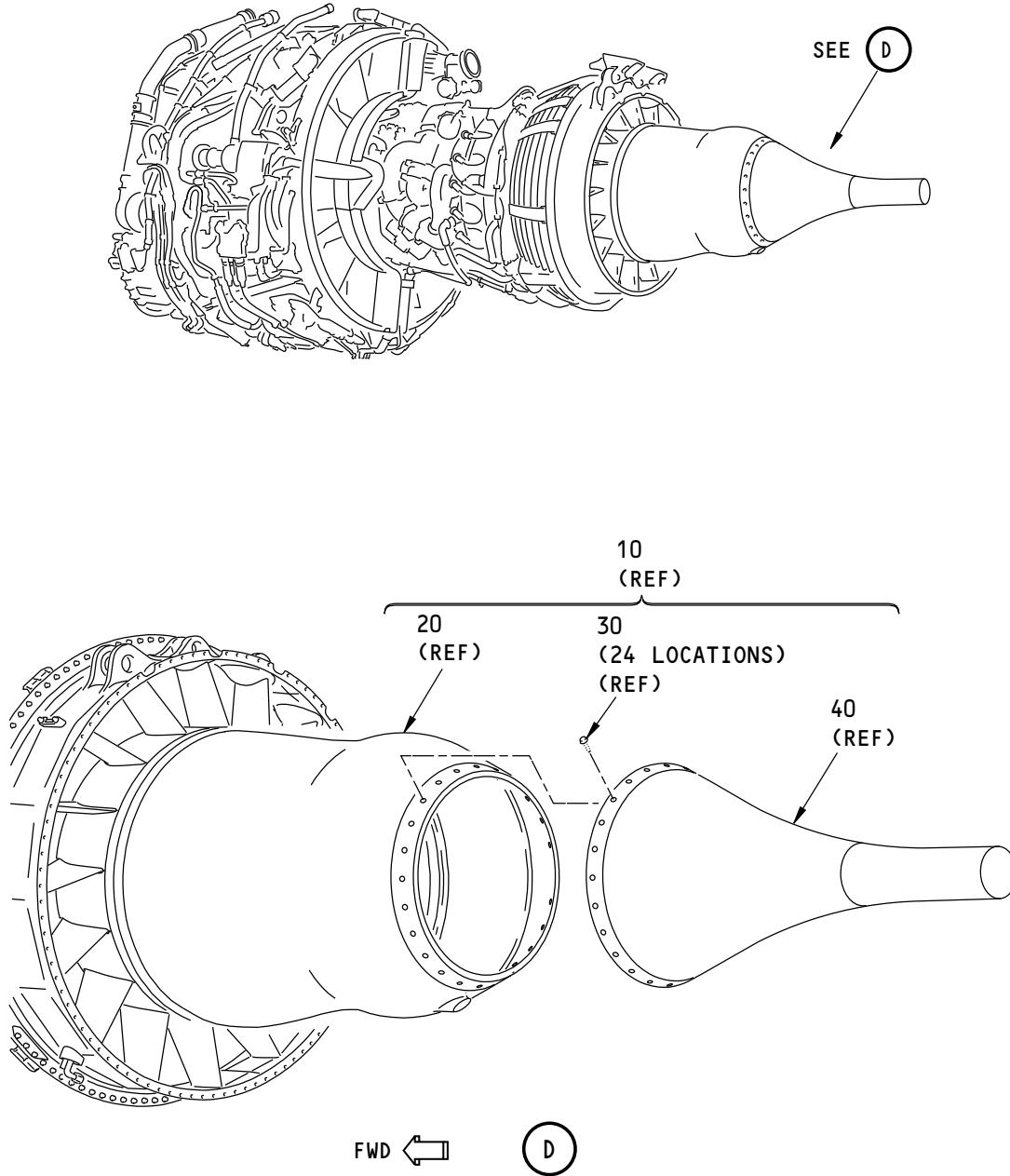
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 32-2     |              | <b>PRIMARY EXHAUST INSTALLATION<br/>(FIGURE 32-2, SHEET 2)</b><br><u><b>WARNING:</b></u> BE CAREFUL WHEN YOU MOVE THE COMPONENT. THE COMPONENT IS HEAVY. INJURIES TO PERSONS CAN OCCUR.<br>ATTACH FWD PLUG ASSY (20) WHICH WEIGHS APPROXIMATELY 65 POUNDS (29 KG) TO equipment, SPL-2419 (T1) AND ATTACH TO low profile hydraulic jack, COM-1568 (T2).  |     |     |
| 20       | 314A2640-34  | . . FWD PLUG ASSY (PART OF 314A2640-100) (QTY 1)  | REF | -   |
| T1       | C78009       | . EQUIPMENT, SPL-2419   | TOL | -   |
| T2       | HW93718      | . LOW PROFILE HYDRAULIC JACK, COM-1568 (OR EQUIVALENT)<br>APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS OF STUDS ON ENGINE FLANGE A7.  | TOL | -   |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br>POSITION FWD PLUG ASSY (20) BEHIND ENGINE. RAISE WITH low profile hydraulic jack, COM-1568 (T2) UNTIL CENTERLINE IS ALIGNED WITH ENGINE CENTERLINE.<br>MOVE FWD PLUG ASSY (20) FORWARD UNTIL BOLT HOLES ARE ALIGNED WITH ENGINE FLANGE STUDS. ALSO MAKE SURE ALIGNMENT PIN ON FLANGE OF FWD PLUG ASSY IS ALIGNED WITH HOLE IN AFT ENGINE FLANGE. IF NECESSARY, MOVE FWD PLUG ASSY REARWARD AND READJUST ITS POSITION ON THE TOOL. MOVE FWD PLUG ASSY FORWARD UNTIL ALIGNMENT PIN ENGAGES HOLE IN ENGINE FLANGE.<br>LOOSELY ATTACH FWD PLUG ASSY (20) TO FLANGE A7 WITH WASHERS (50) AND NUTS (60). | CON | AR  |
| 50       | BACW10BP8APU | . WASHER  |     | 16  |
| 60       | BACN10HR8C   | . NUT<br><br>SNUG FIT NUTS (60) IN THE FOLLOWING SEQUENCE: 3:00 O'CLOCK, 9:00 O'CLOCK, 6:00 O'CLOCK AND 12:00 O'CLOCK POSITIONS. SNUG FIT REMAINING NUTS. TIGHTEN NUTS AT 3:00, 9:00, 6:00 AND 12:00 O'CLOCK POSITIONS TO THE FINAL TORQUE VALUE NOTED BELOW. SEQUENTIALLY TIGHTEN THE REMAINING NUTS. CHECK TORQUE AT FIRST NUT TORQUED. IF NUT IS NOT WITHIN THE SPECIFIED RANGE, RE-TORQUE AND SEQUENTIALLY CHECK REMAINING NUTS. RE-TORQUE IF REQUIRED.<br>REMOVE GROUND SUPPORT EQUIPMENT (T1 AND T2) FROM FORWARD PLUG ASSY (20).<br>FINAL TORQUE VALUE FOR NUTS (60) IS 500-650 POUND-INCHES (56.5-73.4 NEWTON METERS).      |     | 16  |

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 5

Jun 15/2016

D633A106-AKS



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**Primary Exhaust Installation**  
**Figure 32-2 (Sheet 3)**

**71-00-02**  
**P/P BUILDUP FIGURE 32-2**

Page 6

Jun 15/2016

D633A106-AKS

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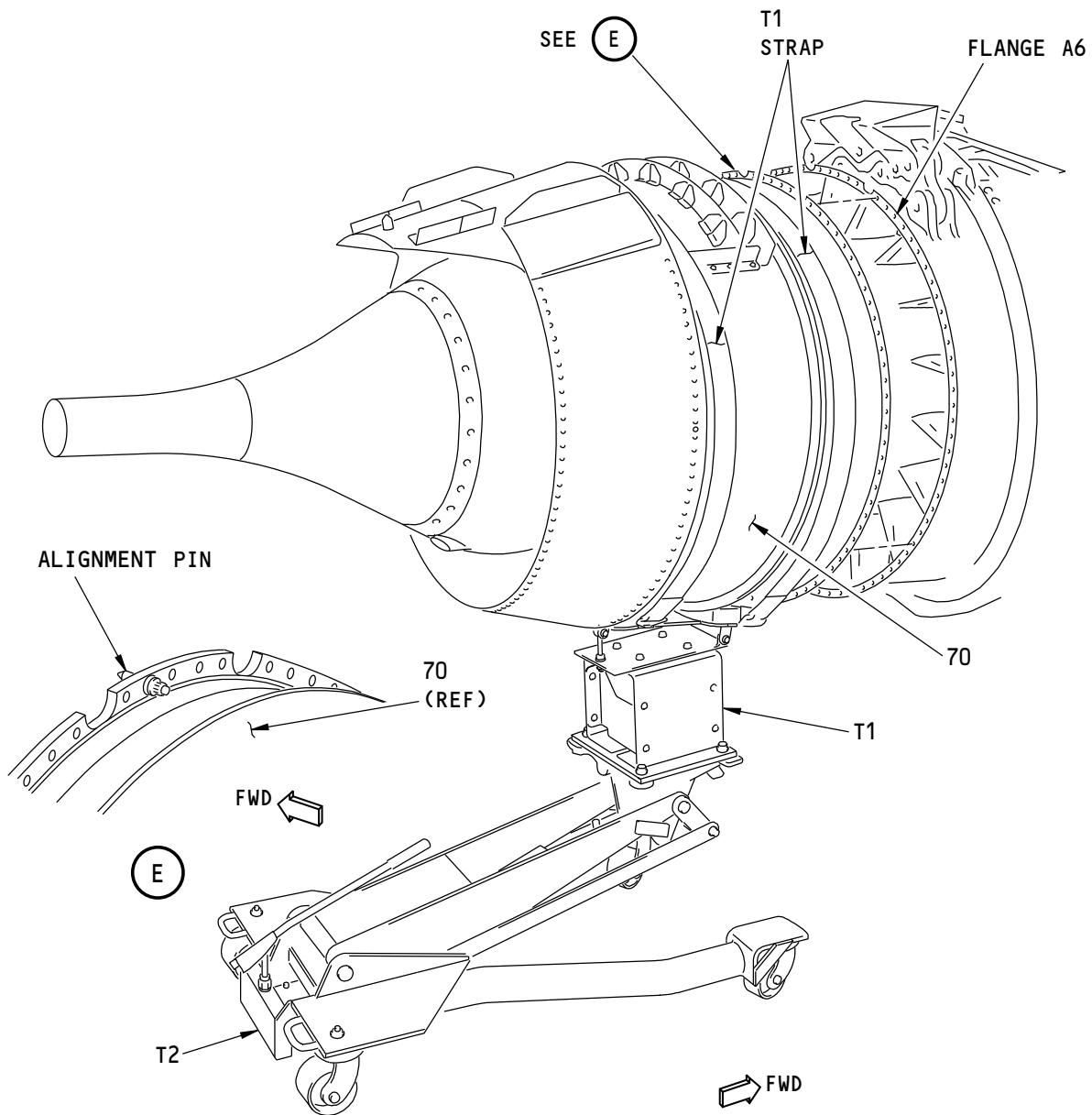
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 32-2     |              | <b>PRIMARY EXHAUST INSTALLATION<br/>(FIGURE 32-2, SHEET 3)</b>   |     |     |
| 30       | BACB30LT4U2  | APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS OF BOLTS (30).  | REF | -   |
| C1       | D00006       | <ul style="list-style-type: none"> <li>. . BOLT (PART OF 314A2640-100) (QTY 24)</li> <li>. . NEVER-SEEZ NSBT-8N COMPOUND</li> </ul>                      | CON | AR  |
| 10       | 314A2640-100 | POSITION AFT PLUG (40) WHICH WEIGHS APPROXIMATELY 12 POUNDS (5.4 KG) ON MATCHING FWD PLUG ASSY (20). AT 24 LOCATIONS, ATTACH WITH LUBRICATED BOLTS (30). | REF | -   |
| 20       | 314A2640-34  | <ul style="list-style-type: none"> <li>. . PRIMARY PLUG ASSY (QTY 1)</li> <li>. . FWD PLUG ASSY (PART OF 314A2640-100) (QTY 1)</li> </ul>                | REF | -   |
| 40       | 314A2640-17  | <ul style="list-style-type: none"> <li>. . AFT PLUG (PART OF 314A2640-100) (QTY 1)</li> </ul>  | REF | -   |
|          |              | TIGHTEN BOLTS (30) TO 73-77 POUND-INCHES (8.2-8.7 NEWTON METERS).  |     |     |

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 7

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
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Primary Exhaust Installation  
Figure 32-2 (Sheet 4)

71-00-02

P/P BUILDUP FIGURE 32-2

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
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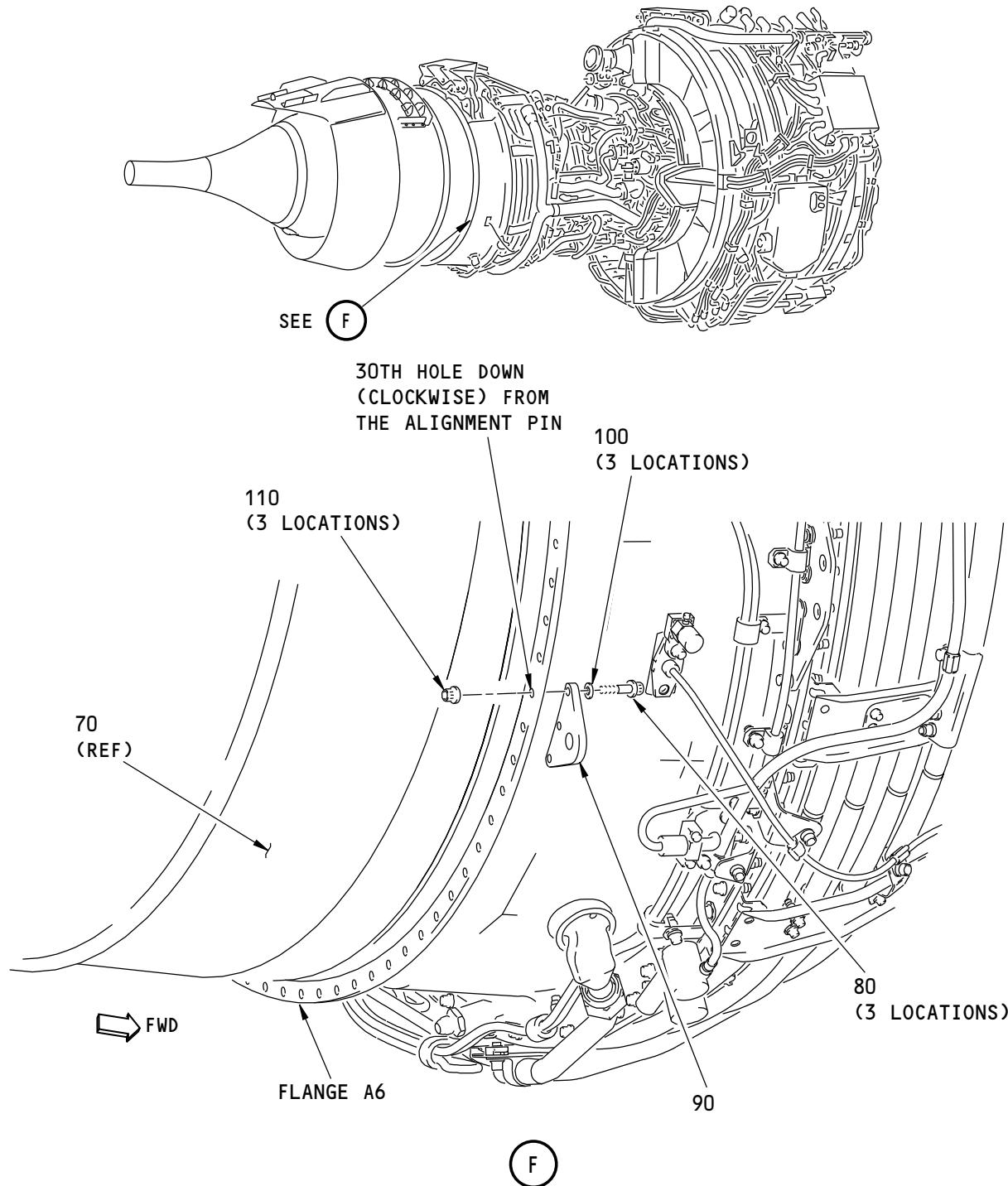
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 32-2     |              | <p><b>PRIMARY EXHAUST INSTALLATION<br/>(FIGURE 32-2, SHEET 4)</b></p> <p><b>WARNING:</b> BE CAREFUL WHEN YOU MOVE THE COMPONENT. THE COMPONENT IS HEAVY. INJURIES TO PERSONS CAN OCCUR.</p> <p>ATTACH PRIMARY NOZZLE ASSY (70) WHICH WEIGHS APPROXIMATELY 107 POUNDS (48.5 KG) TO equipment, SPL-2419 (T1) AND ATTACH TO low profile hydraulic jack, COM-1568 (T2).</p> <p><b>CAUTION:</b> MAKE SURE TO ATTACH THE STRAPS ALONG THE CONTINUOUS SURFACE OF THE NOZZLE ONLY. DO NOT ATTACH THE STRAPS ACROSS THE COMPONENTS ON TOP OF THE NOZZLE. DAMAGE TO THE NOZZLE CAN OCCUR.</p> <p><b>NOTE:</b> IF THERE IS DAMAGE, THE NOZZLE IS CONSIDERED UNUSABLE AND MUST BE REPLACED.</p> |     |     |
| 70       | 314A2630-103 | . PRIMARY NOZZLE ASSY   |     | 1   |
| T1       | C78009       | . EQUIPMENT, SPL-2419   | TOL | -   |
| T2       | HW93718      | <ul style="list-style-type: none"> <li>. LOW PROFILE HYDRAULIC JACK, COM-1568 (OR EQUIVALENT)</li> </ul> <p>POSITION PRIMARY NOZZLE ASSY (70) BEHIND ENGINE. RAISE WITH low profile hydraulic jack, COM-1568 (T2) UNTIL CENTERLINE IS ALIGNED WITH ENGINE CENTERLINE.</p> <p>MOVE PRIMARY NOZZLE ASSY (70) FORWARD UNTIL NOZZLE IS APPROXIMATELY 2 INCHES (50.8 MM) AFT OF ENGINE FLANGE A6. MAKE SURE ALIGNMENT PIN ON FLANGE OF NOZZLE IS ALIGNED WITH HOLE IN AFT ENGINE FLANGE. IF NECESSARY, MOVE NOZZLE REARWARD AND READJUST POSITION OF NOZZLE ON TOOL. MOVE NOZZLE FORWARD UNTIL ALIGNMENT PIN ENGAGES HOLE IN ENGINE FLANGE.</p>  | TOL | -   |

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 9

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Primary Exhaust Installation  
Figure 32-2 (Sheet 5)

71-00-02

P/P BUILDUP FIGURE 32-2

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

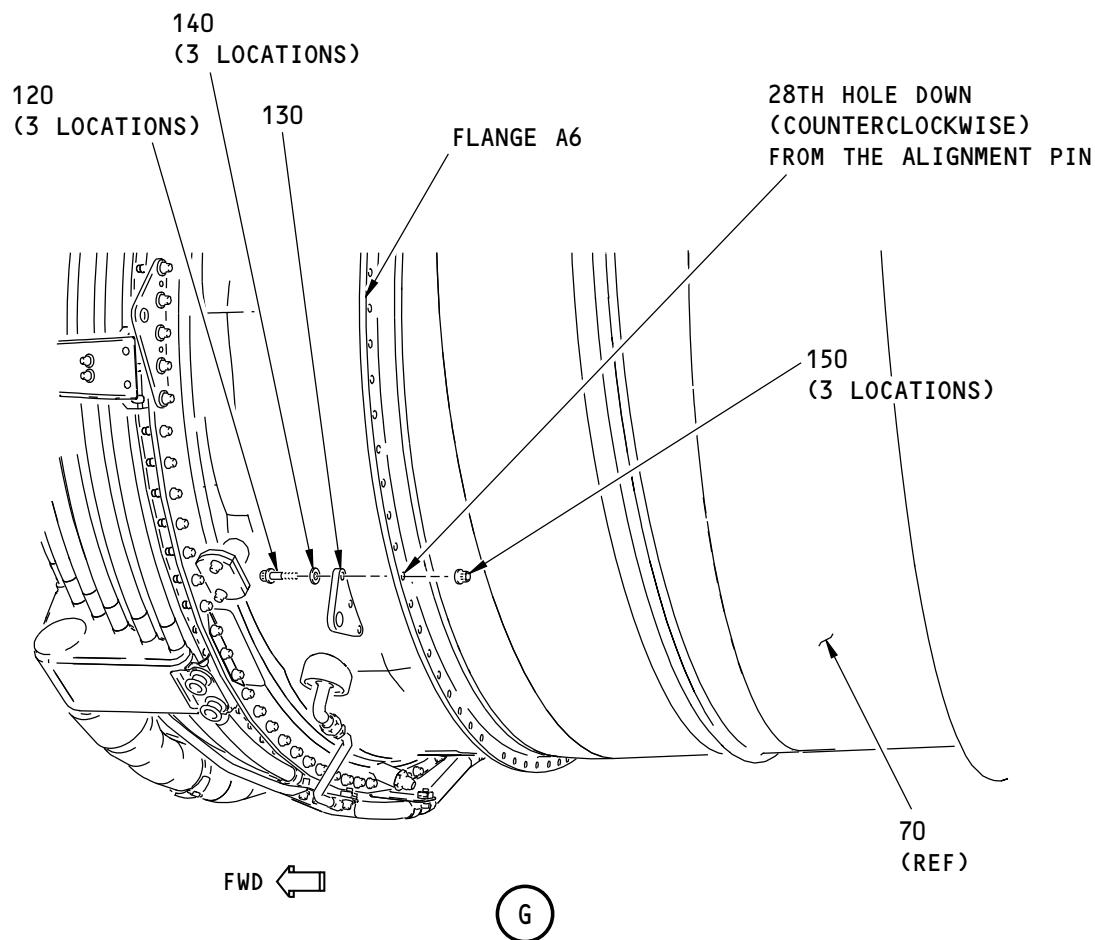
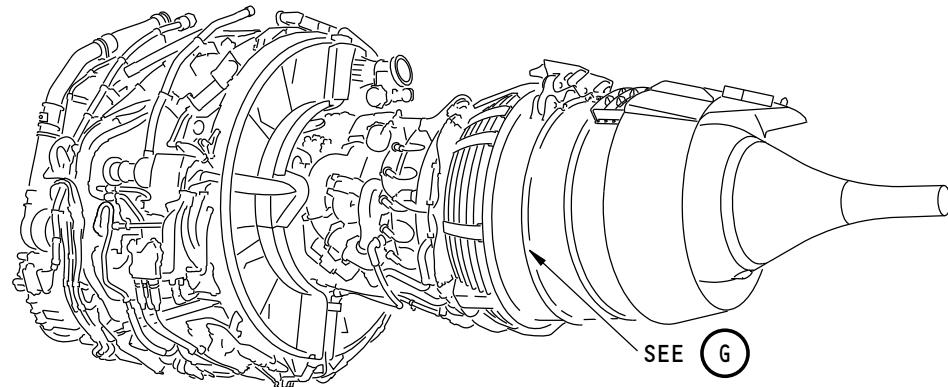
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 32-2     |              | <b>PRIMARY EXHAUST INSTALLATION</b><br><b>(FIGURE 32-2, SHEET 5)</b><br><br>AT THE 30TH, 31ST AND 32ND HOLES DOWN (CLOCKWISE) FROM ALIGNMENT PIN, LOOSELY ATTACH GSE BRACKET (90) ON FWD SIDE OF FLANGE A6 WITH BOLTS (80), WASHERS (100) AND NUTS (110).<br><br><b>NOTE:</b> IF BOLTS (80) HAVE BEEN PREVIOUSLY INSTALLED, APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS OF BOLTS (80) OR REPLACE NUTS (110). |     |     |
| 80       | BACB30PN4-10 | . BOLT  |     | 3   |
| 80       | BACB30US4-10 | . BOLT (OPTIONAL TO BACB30PN4-10)   | OPT | -   |
| 90       | 333A2020-5   | . GSE BRACKET   |     | 1   |
| 100      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)  |     | 3   |
| 110      | BACN10HR4C   | . NUT   |     | 3   |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br><b>NOTE:</b> DO NOT TIGHTEN NUTS (110) OR BOLTS (80) AT THIS TIME.   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 11

Jun 15/2016

D633A106-AKS



2053768 S0000417331\_V2

**Primary Exhaust Installation**  
**Figure 32-2 (Sheet 6)**

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 12

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

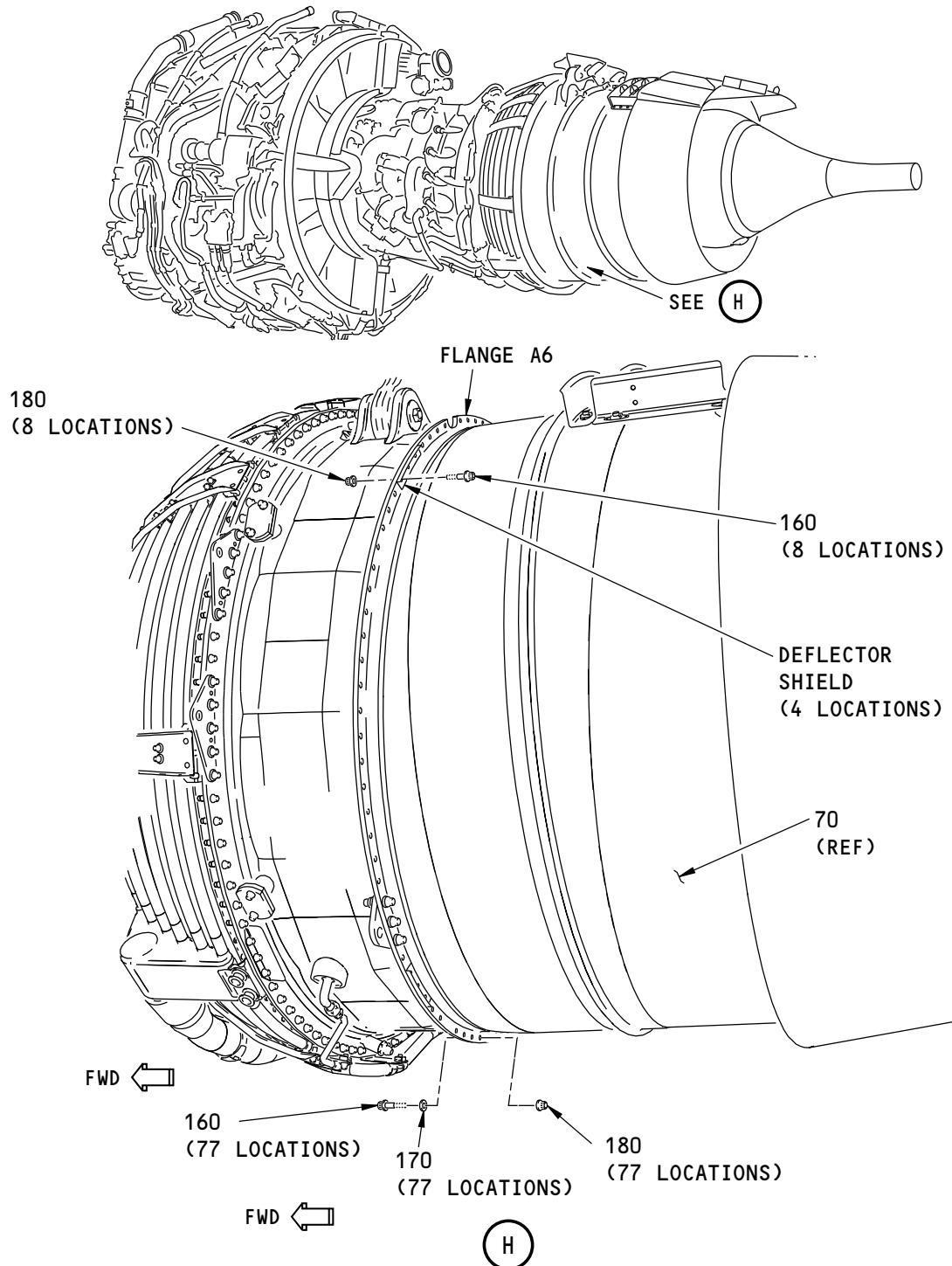
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 32-2     |              | <b>PRIMARY EXHAUST INSTALLATION</b><br><b>(FIGURE 32-2, SHEET 6)</b><br><br>AT THE 28TH, 29TH AND 30TH HOLES DOWN<br>(COUNTERCLOCKWISE) FROM ALIGNMENT PIN, LOOSELY<br>ATTACH GSE BRACKET (130) ON FWD SIDE OF FLANGE A6 WITH<br>BOLTS (120), WASHERS (140) AND NUTS (150).<br><br><b>NOTE:</b> IF BOLTS (120) HAVE BEEN PREVIOUSLY INSTALLED,<br>APPLY Never-Seez NSBT compound, D00006 (C1) TO<br>THREADS OF BOLTS (120) OR REPLACE NUTS (150). |     |     |
| 120      | BACB30PN4-10 | . BOLT  |     | 3   |
| 120      | BACB30US4-10 | . BOLT (OPTIONAL TO BACB30PN4-10)   | OPT | -   |
| 130      | 333A2020-5   | . GSE BRACKET   |     | 1   |
| 140      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)  |     | 3   |
| 150      | BACN10HR4C   | . NUT   |     | 3   |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br><b>NOTE:</b> DO NOT TIGHTEN NUTS (150) OR BOLTS (120) AT THIS<br>TIME.   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Primary Exhaust Installation  
Figure 32-2 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 32-2

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

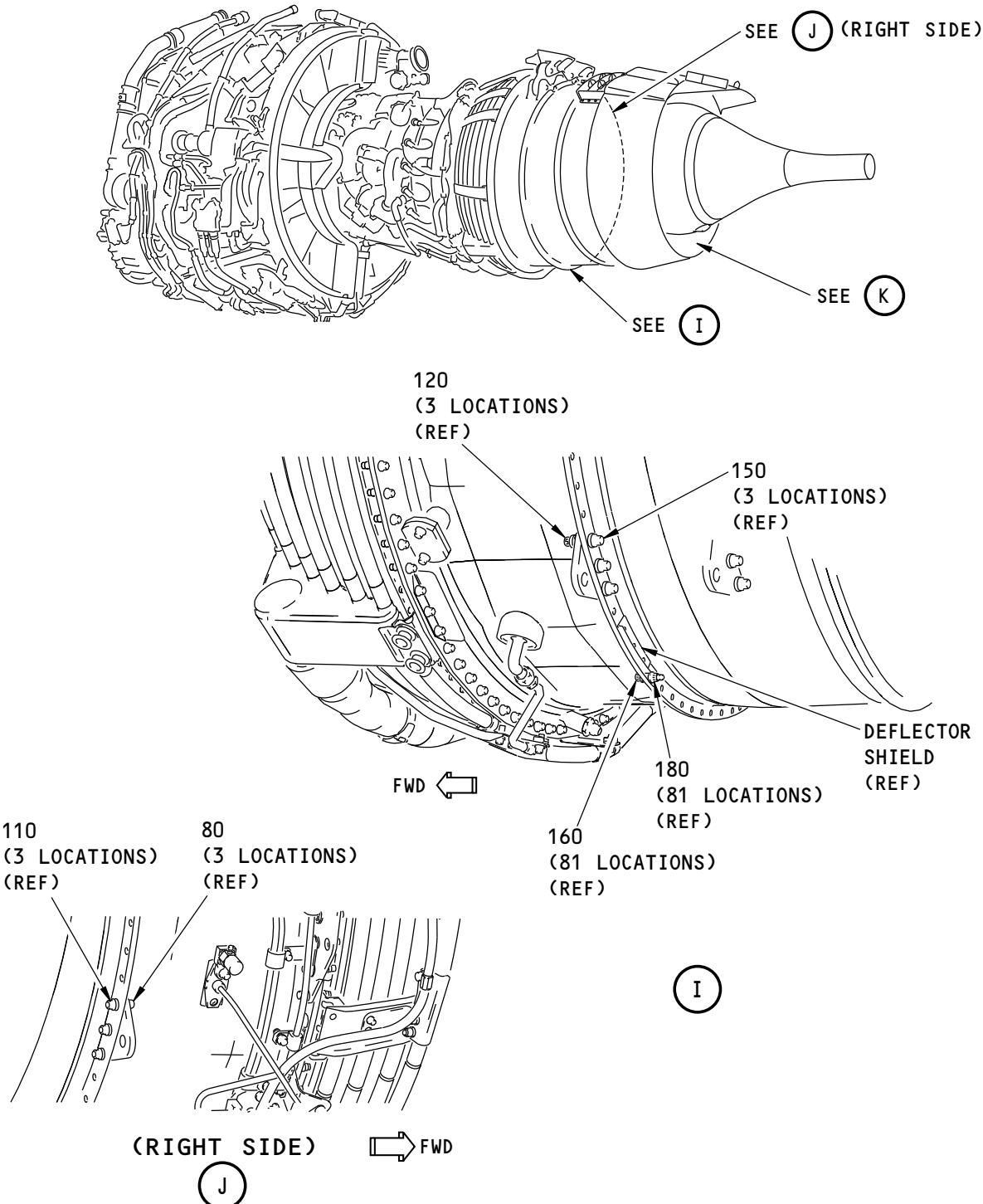
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC  | QTY |
|----------|--------------|---|-----|-----|
| 32-2     |              | <b>PRIMARY EXHAUST INSTALLATION<br/>(FIGURE 32-2, SHEET 7)</b><br><br>DEFLECTOR SHIELDS ARE LOCATED AT 4 PLACES ON THE PRIMARY NOZZLE ASSY FLANGE. LOOSELY INSTALL BOLTS (160) AND NUTS (180) THROUGH THE DEFLECTOR SHIELDS. BOLT HEADS ARE ON THE AFT SIDE OF THE DEFLECTOR SHIELD.<br><br>AT THE REMAINING 77 LOCATIONS ON THE PRIMARY NOZZLE ASSY FLANGE, LOOSELY INSTALL BOLTS (160), WASHERS (170) AND NUTS (180). BOLT HEADS ARE ON THE FWD SIDE OF ENGINE FLANGE A6.<br><br><b>NOTE:</b> IF BOLTS (160) HAVE BEEN PREVIOUSLY INSTALLED, APPLY Never-Seez NSBT compound, D00006 (C1) TO THREADS OF BOLTS (160) OR REPLACE NUTS (180).                         |     |     |
| 160      | BACB30PN4-6  | . BOLT  |     | 85  |
| 160      | BACB30US4-6  | . BOLT (OPTIONAL TO BACB30PN4-6)  | OPT | -   |
| 170      | BACW10BP4ACU | . WASHER (CSK) (UNDER BOLT HEAD)  |     | 77  |
| 180      | BACN10HR4C   | . NUT   |     | 85  |
| C1       | D00006       | . NEVER-SEEZ NSBT-8N COMPOUND<br><br>SNUG FIT NUTS (110, 150 AND 180) OR BOLTS (80, 120 AND 160) IN THE FOLLOWING SEQUENCE: 3:00 O'CLOCK, 9:00 O'CLOCK, 6:00 O'CLOCK AND 12:00 O'CLOCK POSITIONS. SNUG FIT REMAINING NUTS OR BOLTS. TIGHTEN NUTS OR BOLTS AT 3:00, 9:00, 6:00 THEN 12:00 O'CLOCK POSITIONS TO THE FINAL TORQUE VALUE NOTED ON NEXT PAGE. SEQUENTIALLY TIGHTEN THE REMAINING NUTS OR BOLTS. CHECK TORQUE AT FIRST NUT OR BOLT TORQUED. IF NUT OR BOLT IS NOT WITHIN THE SPECIFIED RANGE, RE-TORQUE AND SEQUENTIALLY CHECK REMAINING NUTS OR BOLTS. RE-TORQUE IF REQUIRED. REMOVE GROUND SUPPORT EQUIPMENT (T1 AND T2) FROM PRIMARY NOZZLE ASSY (70). | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 15

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

2053781 S0000417334\_V2

Primary Exhaust Installation  
Figure 32-2 (Sheet 8)

71-00-02

P/P BUILDUP FIGURE 32-2

Page 16

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 32-2     |             | <p><b>PRIMARY EXHAUST INSTALLATION<br/>(FIGURE 32-2, SHEET 8)</b></p> <p><u>DRY NUTS/BOLTS:</u></p> <p>FINAL TORQUE VALUE FOR BACB30PN BOLT:<br/>NUT (110, 150 AND 180) 65-100 POUND-INCHES (7.3-11.3 NEWTON METERS)</p> <p>BOLT (80, 120 AND 160) 90-110 POUND-INCHES (10.2-12.1 NEWTON METERS)</p> <p>FINAL TORQUE VALUE FOR OPT BACB30US BOLT:<br/>NUT (110, 150 AND 180) 90-125 POUND-INCHES (10.2-14.1 NEWTON METERS)</p> <p>BOLT (80, 120 AND 160) 113-138 POUND-INCHES (12.8-15.6 NEWTON METERS)</p> <p><u>LUBRICATED NUTS/BOLTS:</u></p> <p>FINAL TORQUE VALUE FOR BACB30PN BOLT:<br/>NUT (110, 150 AND 180) 50-75 POUND-INCHES (5.65-8.47 NEWTON METERS)</p> <p>BOLT (80, 120 AND 160) 67.5-82.5 POUND-INCHES (7.63-9.32 NEWTON METERS)</p> <p>FINAL TORQUE VALUE FOR OPT BACB30US BOLT:<br/>NUT (110, 150 AND 180) 70-80 POUND-INCHES (7.91-9.04 NEWTON METERS)</p> <p>BOLT (80, 120 AND 160) 72-88 POUND-INCHES (8.13-9.94 NEWTON METERS)</p> |    |     |

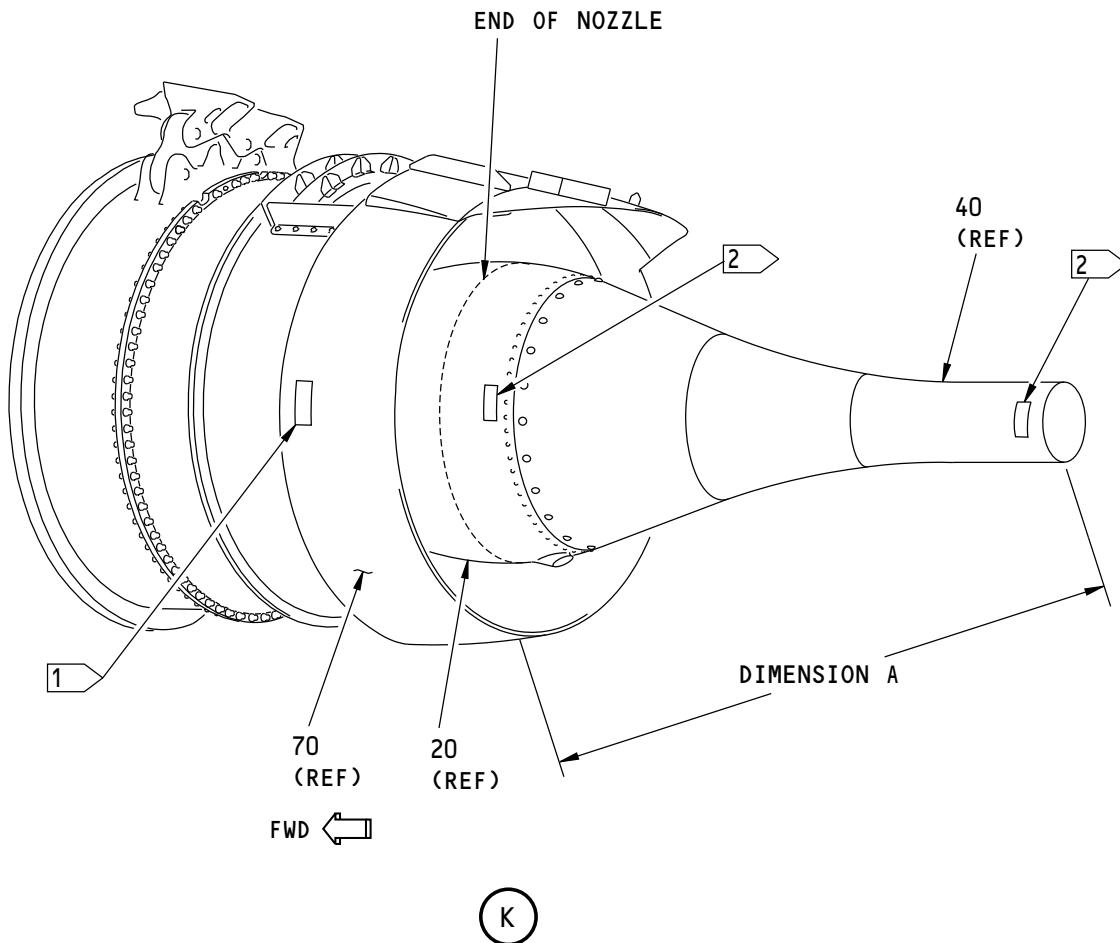
**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 17

Jun 15/2016

D633A106-AKS

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- 1 USE ONLY WITH 314A2640 PLUG  
 2 USE ONLY WITH 314A2630 NOZZLE

2053839 S0000417335\_V2

**Primary Exhaust Installation**  
**Figure 32-2 (Sheet 9)**

**71-00-02****P/P BUILDUP FIGURE 32-2**

Page 18

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC | QTY |
|----------|-------------|--|----|-----|
| 32-2     |             | <p><b>PRIMARY EXHAUST INSTALLATION<br/>(FIGURE 32-2, SHEET 9)</b></p> <p><b><u>CAUTION:</u></b> THE INTERMIX OF THE LONG NOZZLE AND SHORT PLUG OR THE SHORT NOZZLE AND LONG PLUG IS NOT PERMITTED. DAMAGE TO EQUIPMENT CAN OCCUR.</p> <p><b><u>NOZZLE AND PLUG FIT CHECK:</u></b></p> <p>DO THESE STEPS TO MAKE SURE THE CORRECT EXHAUST NOZZLE AND EXHAUST PLUG ARE INSTALLED:</p> <p>MEASURE AND RECORD THE DIMENSION BETWEEN THE AFT EDGE OF THE EXHAUST NOZZLE AT THE 6 O'CLOCK LOCATION AND THE AFT EDGE OF THE EXHAUST PLUG AT THE 6 O'CLOCK POSITION (DIMENSION A = _____).</p> <p>DIMENSION A MUST BE 37.7 INCHES (+/- 0.5 INCHES) (957.58 MM (+/- 12.7 MM)).</p> <p>IF YOU RECORD ANY OTHER DIMENSION, THEN THE EXHAUST NOZZLE AND EXHAUST PLUG ARE NOT COMPATIBLE.</p> |    |     |

**71-00-02**

**P/P BUILDUP FIGURE 32-2**

Page 19

Jun 15/2016

D633A106-AKS

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**FIGURE 33-1**

## **INLET COWL INSTALLATION**

**REF QEC TASK NO.: TBD**

**REF DWG: 334A2000  
301A2094**

**71-00-02**

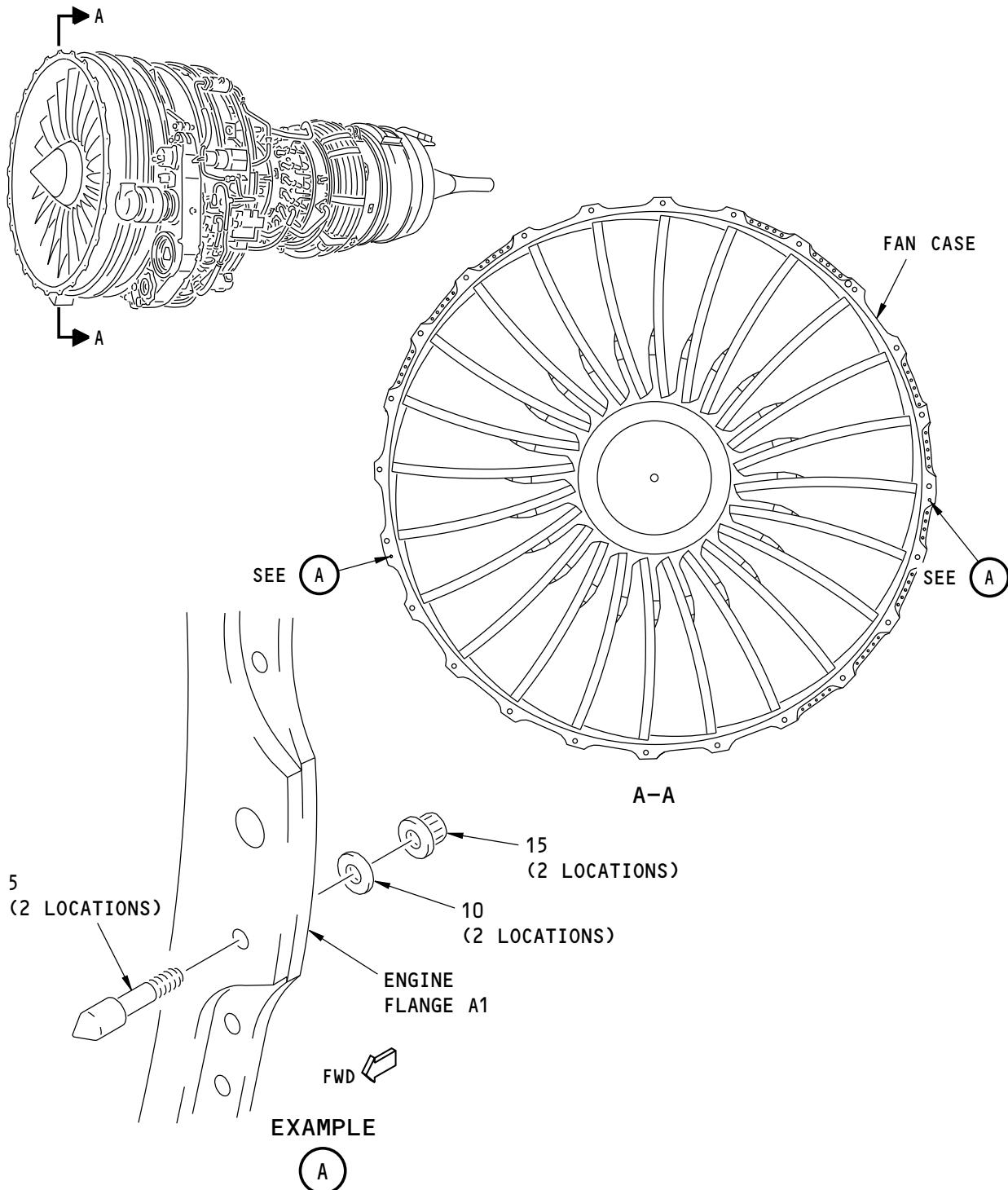
**P/P BUILDUP FIGURE 33-1**

**Page 1**

**Jun 15/2016**

**D633A106-AKS**

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F24098 S00041154044\_V2

**Inlet Cowl Installation**  
**Figure 33-1 (Sheet 1)**

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

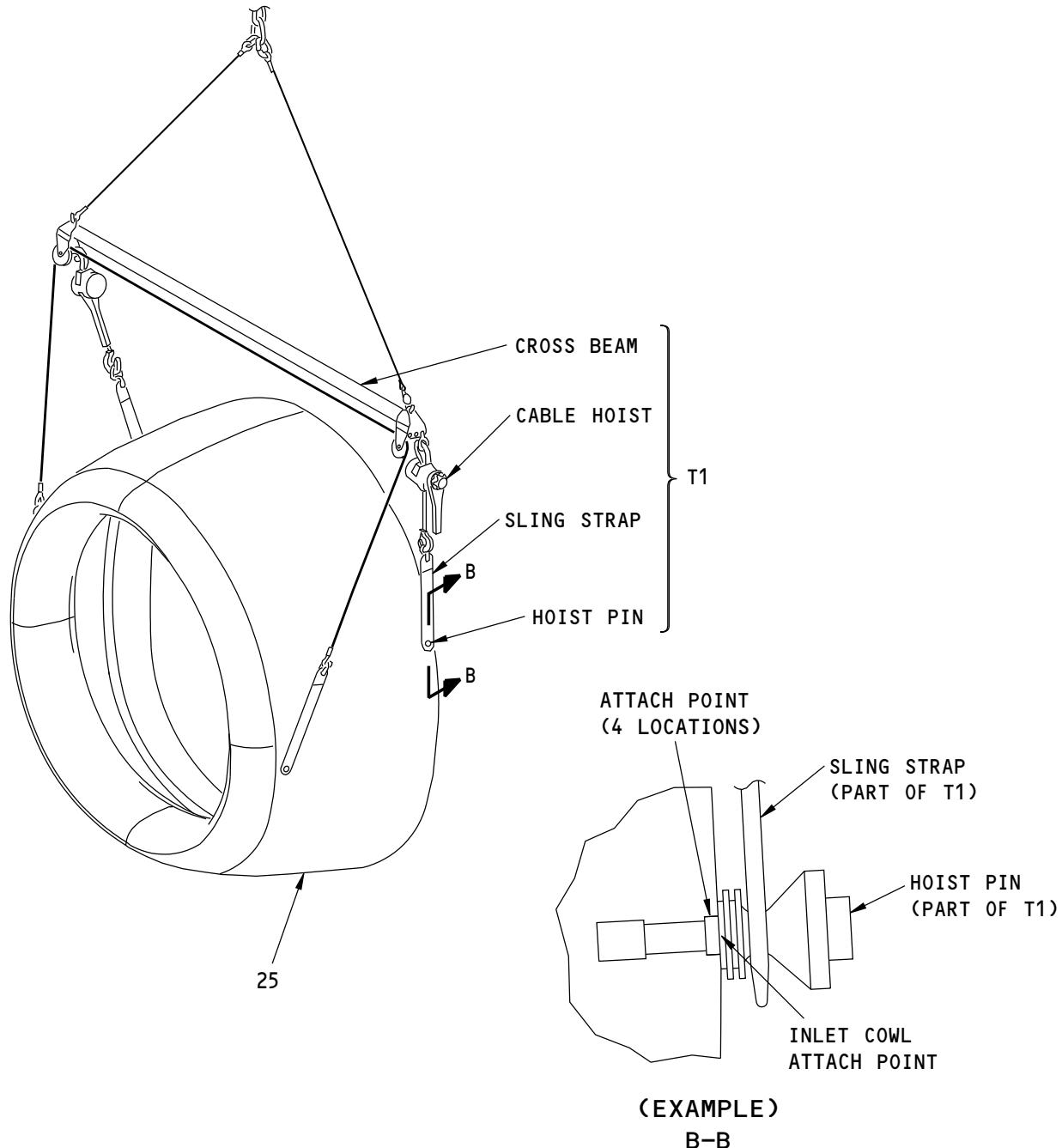
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC | QTY |
|----------|---------------|---|----|-----|
| 33-1     |               | <b>INLET COWL INSTALLATION</b><br><b>(FIGURE 33-1, SHEET 1)</b><br><br><u>NOTE:</u> INLET COWL IS INTERCHANGEABLE BETWEEN AIRPLANE ENGINE POSITIONS. NO. 1 (LEFT) ENGINE INLET IS THE SAME AS THE NO. 2 (RIGHT) ENGINE INLET.<br><br>INSTALL SHEAR PINS (5) ON ENGINE FLANGE A1 IN HOLES JUST BELOW 3 AND 9 O'CLOCK POSITIONS WITH PINS FACING FWD. USE WASHERS (10) AND NUTS (15). |    |     |
| 5        | 314T3019-3    | . SHEAR PIN   |    | 2   |
| 10       | NAS1149E0432P | . WASHER  |    | 2   |
| 15       | BACN10YR4CM   | . NUT   |    | 2   |
|          |               | TIGHTEN NUTS (15) TO 55-70 POUND-INCHES (6.2-7.9 NEWTON METERS).  |    |     |

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 3

Jun 15/2016

D633A106-AKS



## INLET COWL INSTALLATION WITH INLET COWL SLING

F24130 S00041154045\_V1

Inlet Cowl Installation  
Figure 33-1 (Sheet 2)

**71-00-02**  
**P/P BUILDUP FIGURE 33-1**  
 Page 4  
 Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE   | UC  | QTY |
|----------|-------------|--|-----|-----|
| 33-1     |             | <b>INLET COWL INSTALLATION</b><br><b>(FIGURE 33-1, SHEET 2)</b><br><br><u>INLET COWL INSTALLATION WITH INLET COWL SLING</u><br><u>(PREFERRED METHOD):</u><br><br>AT FOUR LOCATIONS, ATTACH inlet cowl sling, SPL-2062 (T1) TO INLET COWL (25) USING HOIST PINS AND SLING STRAPS.   |     |     |
| 25       | 314-2100-4  | . INLET ASSY (V51563) (SPEC S314A210-29)   | VEN | 1   |
| 25       | 314-2100-3  | . INLET ASSY (V51563) (SPEC S314A210-21) (OPTIONAL TO 314-2100-4)  | OPT | -   |
| 25       | 314-2100-2  | . INLET ASSY (V51563) (SPEC S314A210-5) (OPTIONAL TO 314-2100-3)   | OPT | -   |
| T1       | B71040      | . INLET COWL SLING, SPL-2062<br><br>LIFT INLET COWL OFF GROUND PALLET AND USE BOTH LEVER HOISTS TO ROTATE INLET COWL (25) UNTIL INLET ATTACHMENT FLANGE IS VERTICAL.<br><br><b>NOTE:</b> TO TURN INLET COWL, DECREASE LENGTH OF LEVER HOIST CHAIN.<br><br>REMOVE PROTECTIVE COVERS FROM CTAI DUCT AND EEC COOLING HOSE ON BOTH ENGINE AND INLET COWL (25). | TOL | -   |

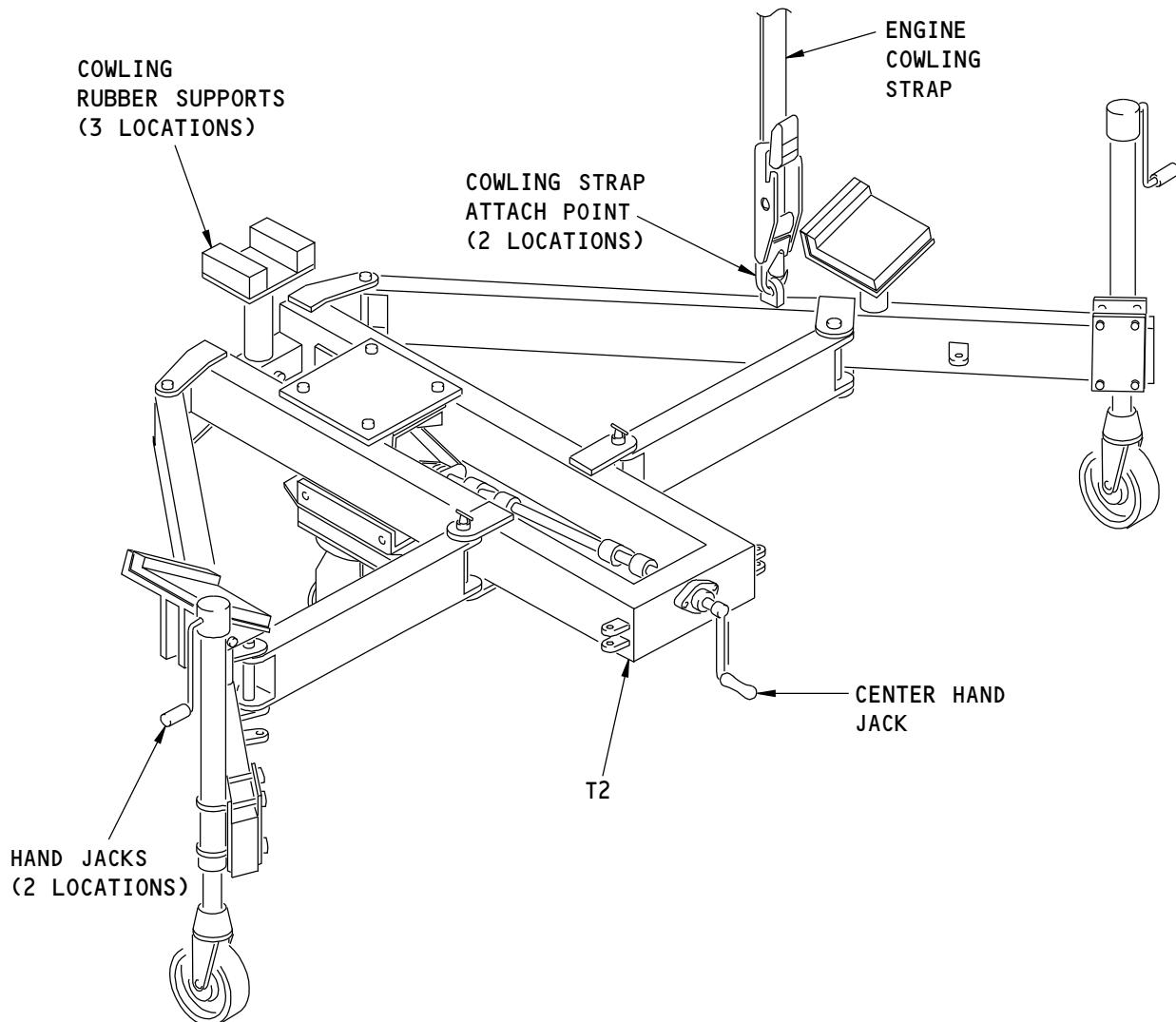
**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 5

Jun 15/2016

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## INLET COWL INSTALLATION INLET COWL DOLLY

F24860 S00041154046\_V1

Inlet Cowl Installation  
Figure 33-1 (Sheet 3)

71-00-02

P/P BUILDUP FIGURE 33-1

Page 6

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO.   | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|------------|-------------|---|-----|-----|
| 33-1<br>T2 | AM-1940-400 | <p><b>INLET COWL INSTALLATION<br/>(FIGURE 33-1, SHEET 3)</b></p> <p><b><u>INLET COWL INSTALLATION WITH INLET COWL DOLLY (OPTIONAL METHOD):</u></b></p> <p><b><u>CAUTION:</u></b> APPLY ONLY THE FORCE NECESSARY TO THE ENGINE COWLING STRAP TO HOLD THE INLET COWL TO THE DOLLY. MORE FORCE CAN CAUSE DAMAGE TO THE INLET COWL.</p> <p>dolly, COM-2060 (T2) CAN BE USED TO TRANSFER AN INLET COWL FROM AN ON-WING ENGINE OR FOR A INLET COWL STORED ON THE DOLLY.</p> <p><b><u>NOTE:</u></b> THE INLET COWL DOLLY IS NOT DESIGNED TO LIFT THE INLET COWL DIRECTLY FROM A GROUND PALLET.</p> <p>. DOLLY, COM-2060<br/>REMOVE PROTECTIVE COVERS FROM CTAI DUCT AND EEC COOLING HOSE ON BOTH ENGINE AND INLET COWL (25).</p> | TOL | -   |

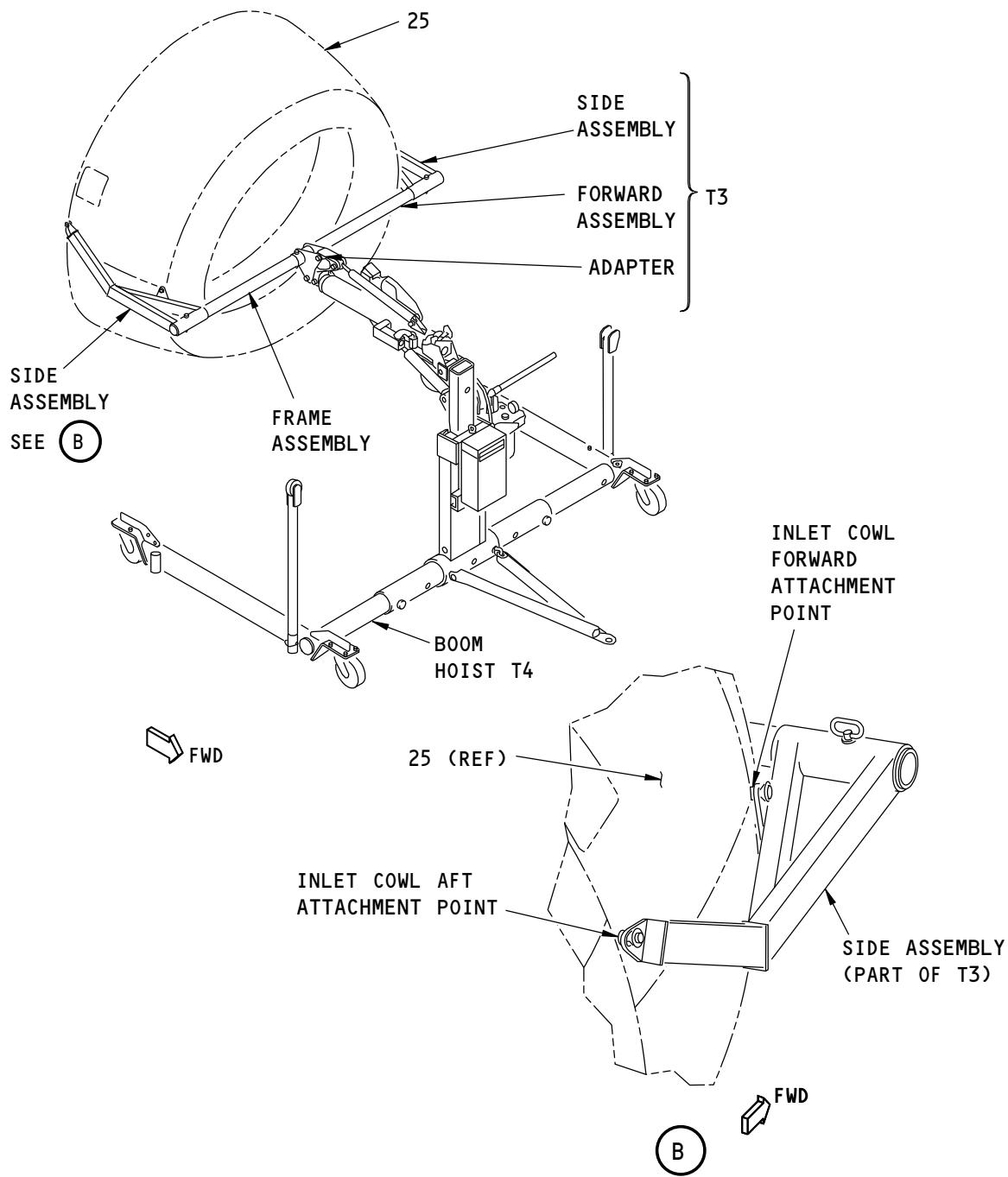
**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 7

Jun 15/2016

D633A106-AKS

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737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

## INLET COWL INSTALLATION WITH BOOM HOIST

M17491 S00041154047\_V1

Inlet Cowl Installation  
Figure 33-1 (Sheet 4)71-00-02  
P/P BUILDUP FIGURE 33-1

Page 8

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC  | QTY |
|----------|-------------|---|-----|-----|
| 33-1     |             | <b>INLET COWL INSTALLATION<br/>(FIGURE 33-1, SHEET 4)</b><br><br><u>INLET COWL INSTALLATION WITH BOOM HOIST (OPTIONAL METHOD):</u><br>AT FOUR LOCATIONS, ATTACH installation/removal frame equipment, SPL-2165 (T3) TO INLET COWL (25). <ul style="list-style-type: none"> <li>. INSTALLATION/REMOVAL FRAME EQUIPMENT, SPL-2165</li> </ul> USING boom hoist, SPL-2430 (T4), LIFT INLET COWL OFF GROUND PALLET AND ROTATE INLET COWL (25) UNTIL INLET ATTACHMENT FLANGE IS VERTICAL. <ul style="list-style-type: none"> <li>. BOOM HOIST, SPL-2430</li> </ul> REMOVE PROTECTIVE COVERS FROM CTAI DUCT AND EEC COOLING HOSE ON BOTH ENGINE AND INLET COWL (25). |     |     |
| T3       | C71027      |   | TOL | -   |
| T4       | C78026      |   | TOL | -   |

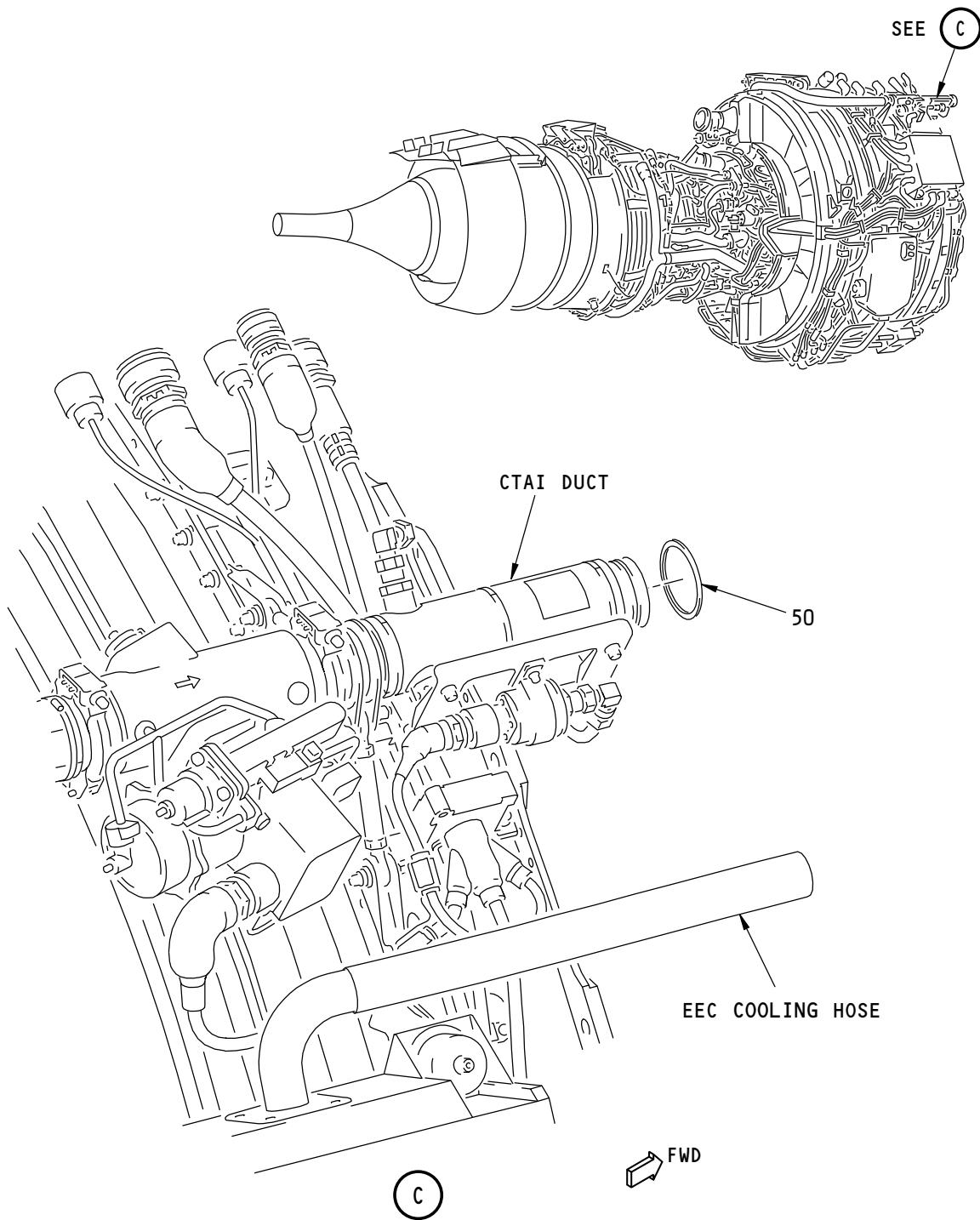
**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 9

Jun 15/2016

D633A106-AKS

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F24145 S00041154048\_V2

**Inlet Cowl Installation  
Figure 33-1 (Sheet 5)****71-00-02****P/P BUILDUP FIGURE 33-1**

Page 10

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

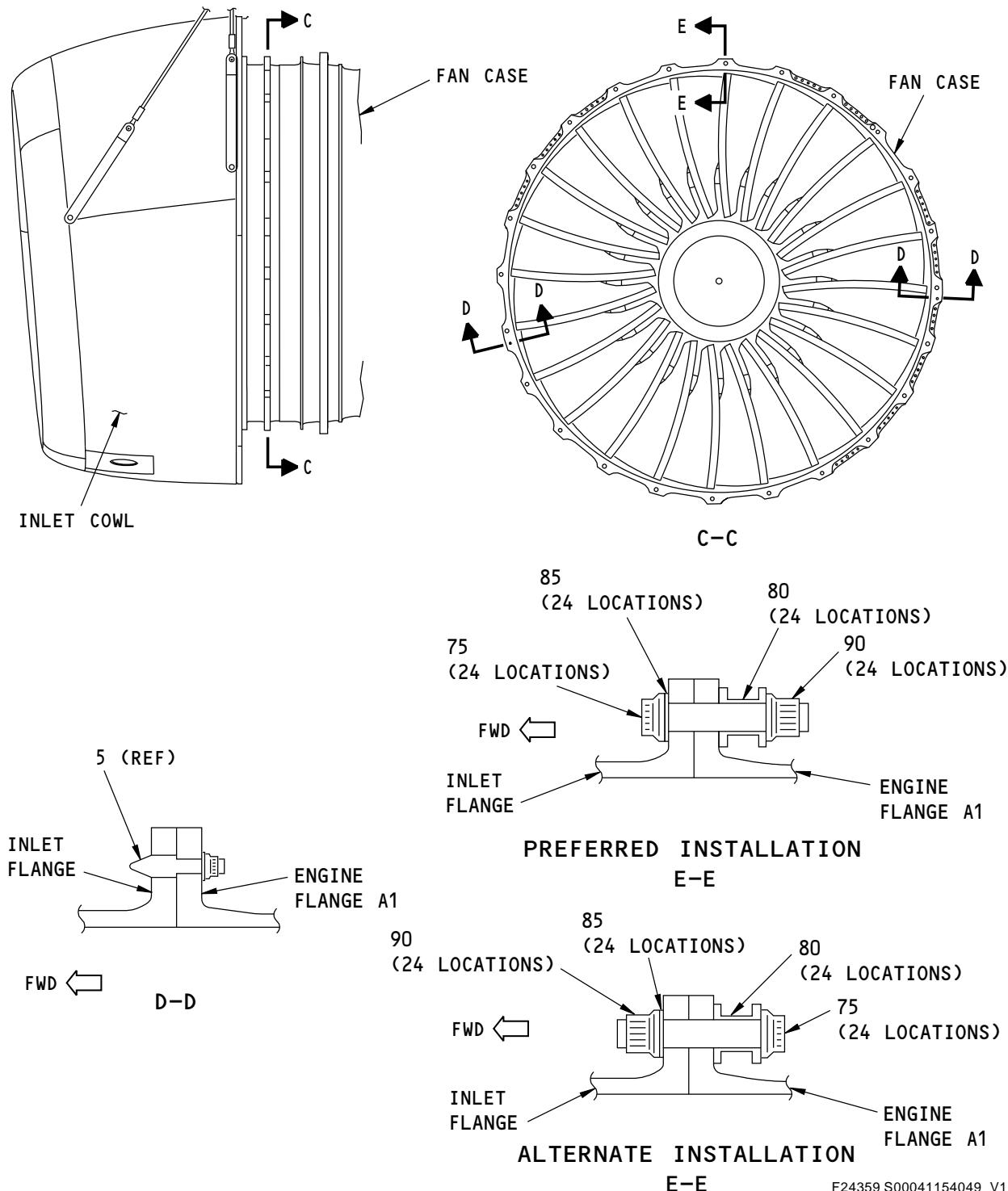
| ITEM NO. | PART NUMBER  | NOMENCLATURE   | UC  | QTY |
|----------|--------------|--|-----|-----|
| 33-1     |              | <b>INLET COWL INSTALLATION</b><br><b>(FIGURE 33-1, SHEET 5)</b><br><br>MAKE SURE FLANGES ON CTAI AND EEC COOLING DUCTS ARE FREE OF SCRATCHES, CUTS, PITS, CREASES, AND UNWANTED MATERIAL.<br><br>REMOVE ITEM (50) FROM BAG ATTACHED TO FORWARD CTAI DUCT AND INSTALL ON CTAI DUCT FLANGE.<br><ul style="list-style-type: none"> <li>. SEAL (PART OF CTAI DUCT INSTL - INLET COWL TAI SYSTEM INSTALLATION/Figure 27-1)</li> <li>. SEAL (OPTIONAL TO AS1895-7-200) (PART OF CTAI DUCT INSTL - INLET COWL TAI SYSTEM INSTALLATION/Figure 27-1)</li> </ul> |     |     |
| 50       | AS1895-7-200 |  | REF | -   |
| 50       | AS1895/7-200 |  | OPT | -   |

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 11

Jun 15/2016

D633A106-AKS

Inlet Cowl Installation  
Figure 33-1 (Sheet 6)

71-00-02

P/P BUILDUP FIGURE 33-1

Page 12

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

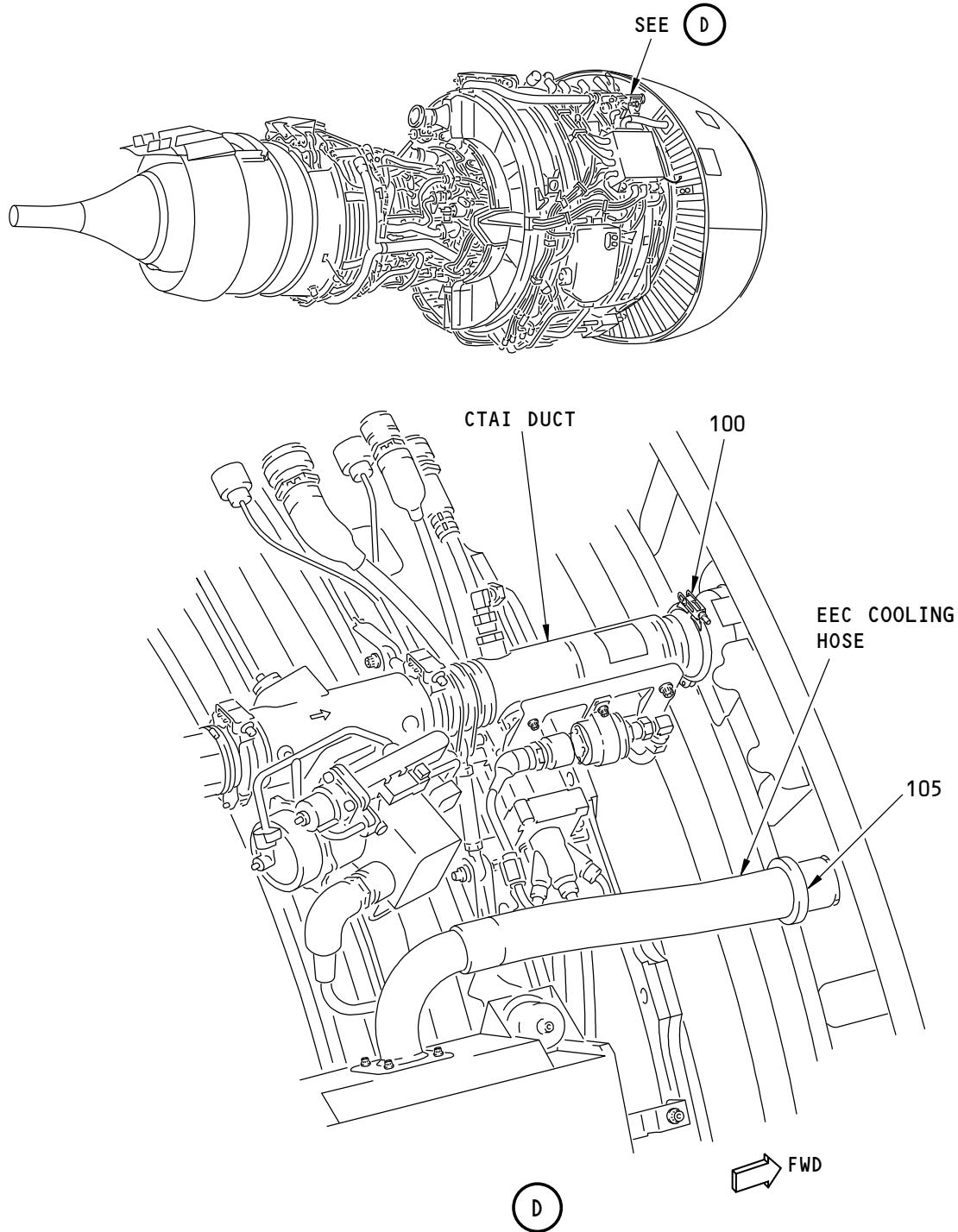
| ITEM NO. | PART NUMBER  | NOMENCLATURE  | UC | QTY |
|----------|--------------|---|----|-----|
| 33-1     |              | <b>INLET COWL INSTALLATION</b><br><b>(FIGURE 33-1, SHEET 6)</b><br><br>POSITION INLET COWL (25) ON ENGINE ENSURING SHEAR PIN HOLES IN INLET ALIGN WITH SHEAR PINS ON ENGINE FLANGE A1.<br><br><u>NOTE:</u> MAKE SURE CTAI DUCT AND EEC COOLING HOSE ARE ALIGNED AND SEATED CORRECTLY.<br><br>LOOSELY ATTACH INLET COWL (25) TO ENGINE FLANGE A1 WITH BOLTS (75), SPACERS (80), WASHERS (85) AND NUTS (90).<br><br><u>NOTE:</u> THE PREFERRED INSTALLATION HAS THE BOLT HEADS FACING FORWARD. AS AN ALTERNATE INSTALLATION, THE BOLT HEADS CAN FACE AFT. HOWEVER, IN BOTH CASES, THE WASHERS MUST BE ON THE FORWARD SIDE OF THE INLET FLANGE AND THE SPACER MUST BE ON THE AFT SIDE OF THE ENGINE FLANGE.  |    |     |
| 75       | BACB30US8K29 | . BOLT  |    | 24  |
| 80       | 334A2010-1   | . SPACER (AFT SIDE OF FLANGE)   |    | 24  |
| 85       | BACW10BP8ACU | . WASHER (FWD SIDE OF FLANGE)   |    | 24  |
| 90       | BACN10HR8CS  | . NUT<br><br>SNUG FIT BOLTS (75) OR NUTS (90) IN THE FOLLOWING SEQUENCE: 3 O'CLOCK, 9 O'CLOCK, 6 O'CLOCK AND 12 O'CLOCK POSITIONS. SNUG FIT REMAINING BOLTS OR NUTS. TIGHTEN BOLTS OR NUTS AT 3, 9, 6 AND 12 O'CLOCK POSITIONS TO THE FINAL TORQUE VALUE NOTED BELOW. SEQUENTIALLY TIGHTEN THE REMAINING BOLTS OR NUTS. CHECK TORQUE AT FIRST BOLT OR NUT TORQUED. IF BOLT OR NUT IS NOT WITHIN THE SPECIFIED RANGE, RE-TORQUE AND SEQUENTIALLY CHECK REMAINING FASTENERS. RE-TORQUE IF REQUIRED.<br><br>FINAL TORQUE VALUE: BOLTS (75) 585-715 POUND INCHES (66.1-80.8 NEWTON METERS); NUTS (90) 500-650 POUND INCHES (56.5-73.4 NEWTON METERS).<br><br>REMOVE inlet cowl sling, SPL-2062 (T1) OR dolly, COM-2060 (T2) OR installation/removal frame equipment, SPL-2165 (T3) AND boom hoist, SPL-2430 (T4) EQUIPMENT. |    | 24  |

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 13

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

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Inlet Cowl Installation  
Figure 33-1 (Sheet 7)

71-00-02

P/P BUILDUP FIGURE 33-1

Page 14

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

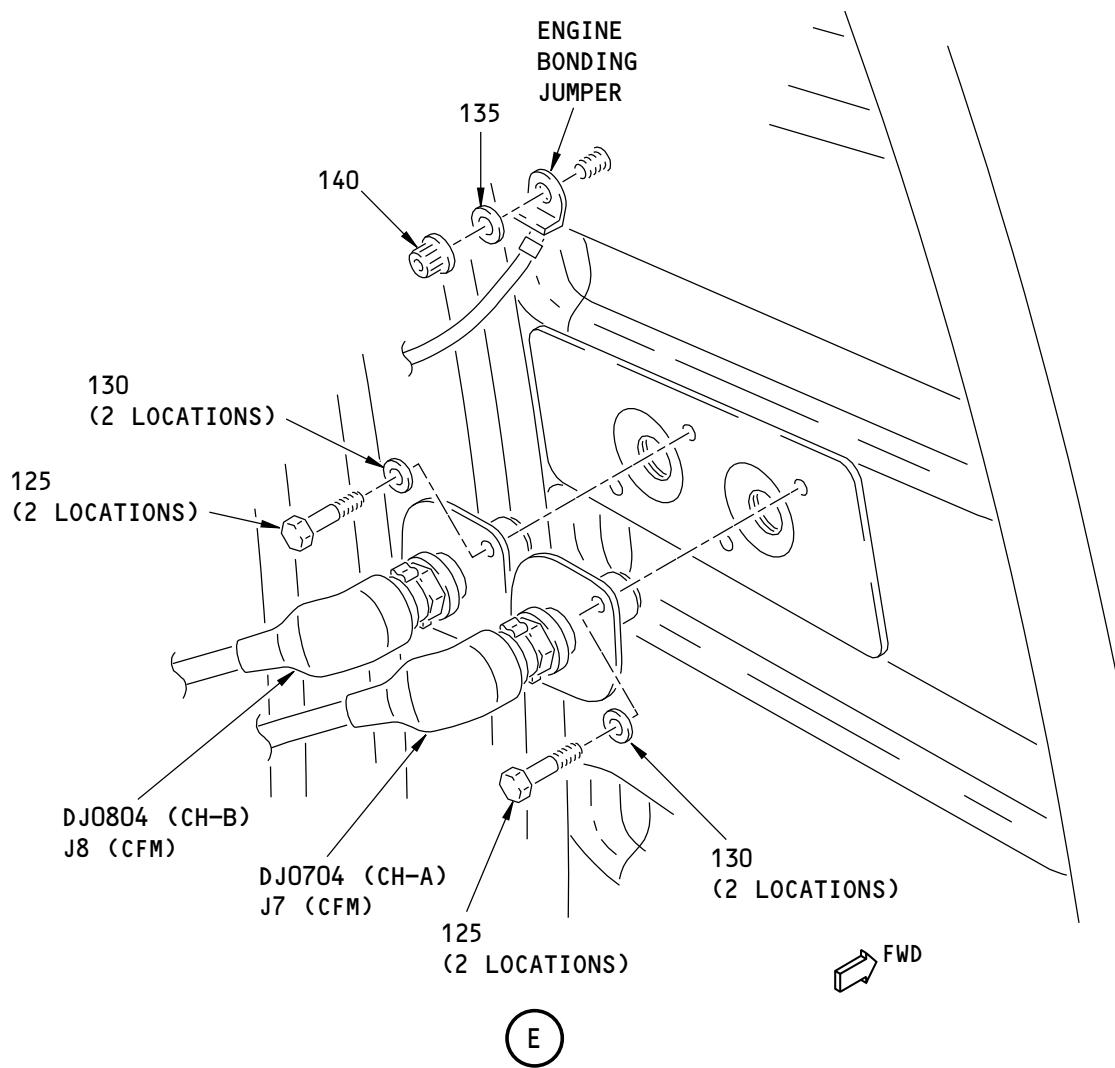
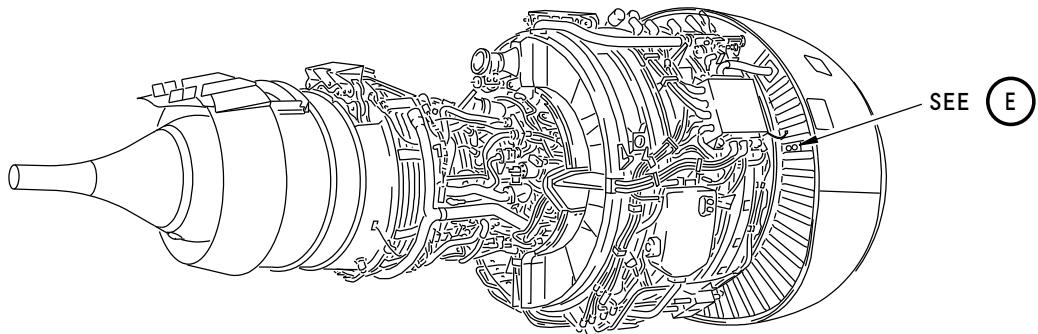
| ITEM NO. | PART NUMBER     | NOMENCLATURE   | UC  | QTY |
|----------|-----------------|--|-----|-----|
| 33-1     |                 | <b>INLET COWL INSTALLATION<br/>(FIGURE 33-1, SHEET 7)</b><br><br>REMOVE ITEM (100) FROM BAG ATTACHED TO FORWARD CTAI DUCT.<br><br>. COUPLING (PART OF CTAI DUCT INSTL - INLET COWL TAI SYSTEM INSTALLATION/Figure 27-1)<br>. COUPLING (OPTIONAL TO AS1895-4-200) (PART OF CTAI DUCT INSTL - INLET COWL TAI SYSTEM INSTALLATION/Figure 27-1)<br><br>POSITION COUPLING (100) ON CTAI DUCT, ENSURING NO PRELOAD EXISTS ON CTAI DUCT ON ENGINE OR INLET COWL. IF PRELOAD EXISTS, REMOVE COUPLING (100) AND ADJUST THE CTAI DUCT FLANGE AS FOLLOWS. LOOSEN BOLTS ON INLET COWL BULKHEAD TO FREE AFT INLET SEAL HOUSING. RE-ATTACH UPSTREAM DUCT WITH COUPLING (100). TAP ON ALUMINUM OR NON-METALLIC SPACER HELD AGAINST UPSTREAM CTAI FLANGE. FOR AFT ADJUSTMENT, APPLY A CONSTANT AFT FORCE TO SAME AFT FLANGE AND AT THE SAME TIME TAP ON PERIPHERY WITH A NON-METALLIC MALLET.<br><br>TIGHTEN COUPLING (100) TO TORQUE SPECIFIED ON PART. LIGHTLY TAP OUTER SURFACE OF COUPLING WITH NON-METALLIC MALLET. RETIGHTEN COUPLING TO TORQUE GIVEN ON PART. IN SEQUENCE, RETIGHTEN BOLTS ON AFT INLET SEAL HOUSING TO 20 POUND-INCHES (2.26 NEWTON METERS).<br><br>ATTACH EEC COOLING HOSE ON ENGINE TO HOSE FLANGE ON INLET COWL WITH HOSE CLAMP (105).<br>. HOSE CLAMP<br><br>TIGHTEN HOSE CLAMP (105) TO 26-30 POUND-INCHES (2.9-3.4 NEWTON METERS). | REF | -   |
| 100      | AS1895-4-200    |  | OPT | -   |
| 100      | AS1895/4-200    |  |     |     |
| 105      | BACC10JB034C064 |  |     | 1   |

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 15

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F24601 S00041154051\_V2

Inlet Cowl Installation  
Figure 33-1 (Sheet 8)

71-00-02

P/P BUILDUP FIGURE 33-1

Page 16

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

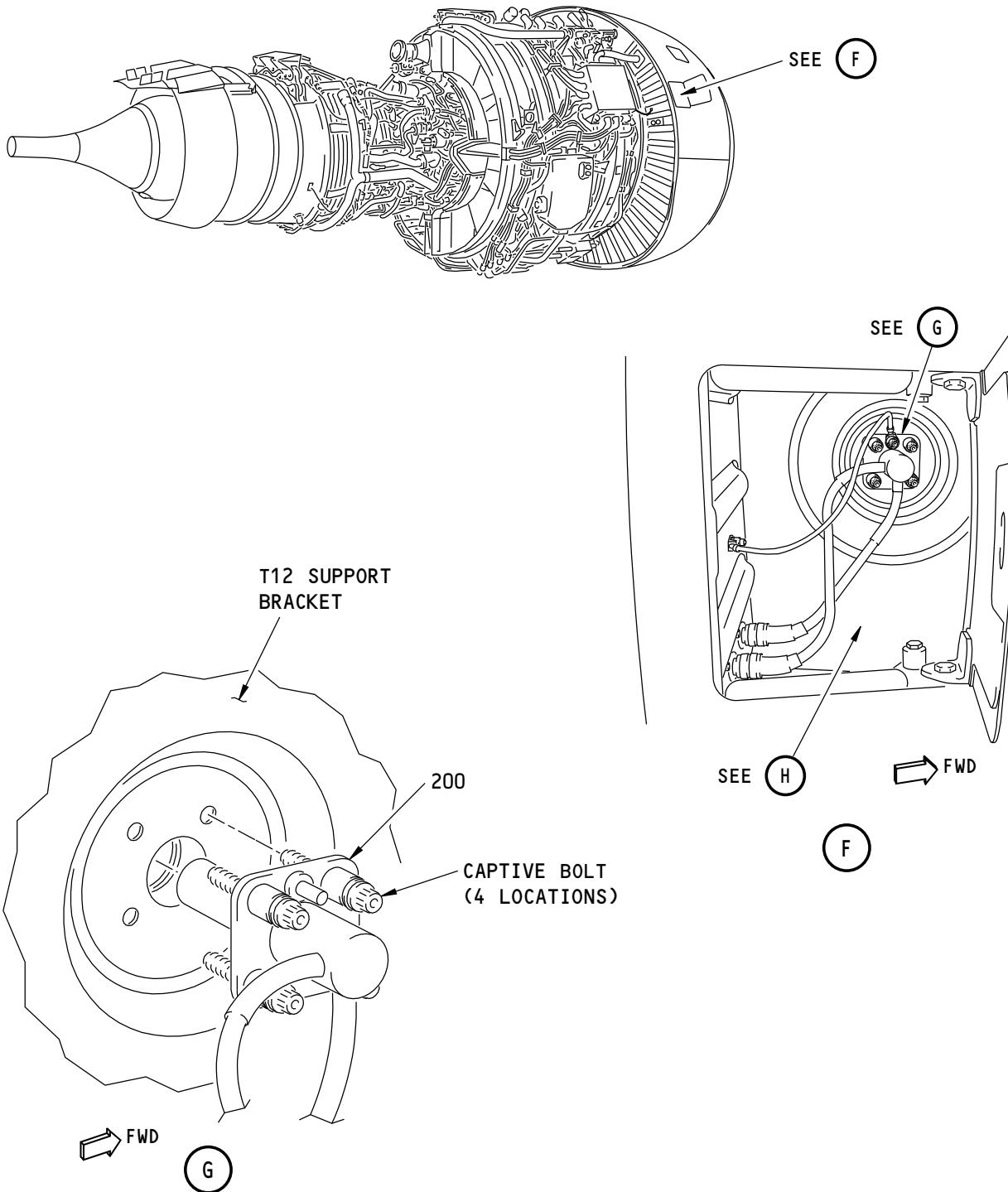
| ITEM NO. | PART NUMBER   | NOMENCLATURE   | UC | QTY |
|----------|---------------|--|----|-----|
| 33-1     |               | <b>INLET COWL INSTALLATION</b><br><b>(FIGURE 33-1, SHEET 8)</b><br><br>DISCONNECT T12 SENSOR FROM ENGINE FAN CASE.<br>CONNECT J8 ELECTRICAL HARNESS, DJ0804 (CH-B), TO INBOARD HOLE LOCATION AND CONNECT J7 ELECTRICAL HARNESS, DJ0704 (CH-A), TO OUTBOARD HOLE LOCATION ON INLET COWL AFT BULKHEAD. SECURE BOTH ELECTRICAL HARNESSSES WITH BOLTS (125) AND WASHERS (130). |    |     |
| 125      | BACB30ZF4-08  | . BOLT   |    | 4   |
| 130      | NAS1149E0432R | . WASHER   |    | 4   |
|          |               | TIGHTEN BOLTS (125) TO 55-70 POUND-INCHES (6.2-7.9 NEWTON METERS).<br><br>ATTACH ENGINE BONDING JUMPER TO TERMINAL LUG AND SECURE WITH WASHER (135) AND NUT (140).   |    |     |
| 135      | NAS1149E0432R | . WASHER   |    | 1   |
| 140      | AS3485-10     | . NUT  |    | 1   |
|          |               | TIGHTEN NUT (140) TO 70-85 POUND-INCHES (7.9-9.6 NEWTON METERS).   |    |     |

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 17

Jun 15/2016

D633A106-AKS



F24680 S00041154052\_V2

**Inlet Cowl Installation  
Figure 33-1 (Sheet 9)**

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 18

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO.          | PART NUMBER        | NOMENCLATURE   | UC      | QTY     |
|-------------------|--------------------|--|---------|---------|
| 33-1<br>200<br>C1 | RP235-00<br>D00601 | <p><b>INLET COWL INSTALLATION<br/>(FIGURE 33-1, SHEET 9)</b></p> <p>OPEN T12 ACCESS DOOR ON UPPER RIGHT SIDE OF INLET COWL. LUBRICATE THREADS OF SENSOR (200) CAPTIVE BOLTS WITH graphite compound, D00601 [CP2101] (C1). POSITION T12 SENSOR (200) ON INLET COWL AND SECURE WITH CAPTIVE BOLTS.</p> <p>. T12 SENSOR (VF6880) (SUPPLIED WITH ENGINE)<br/>. GREASE (CP2101)</p> <p>TIGHTEN BOLTS TO 110-121 POUND-INCHES (12.4-13.7 NEWTON METERS).</p> | REF CON | -<br>AR |

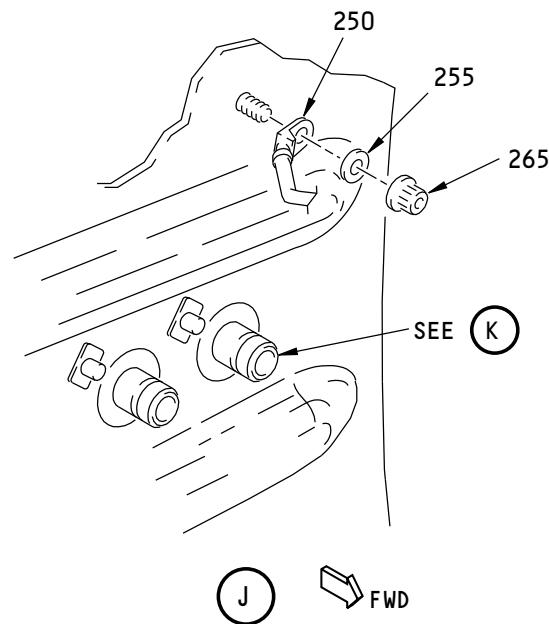
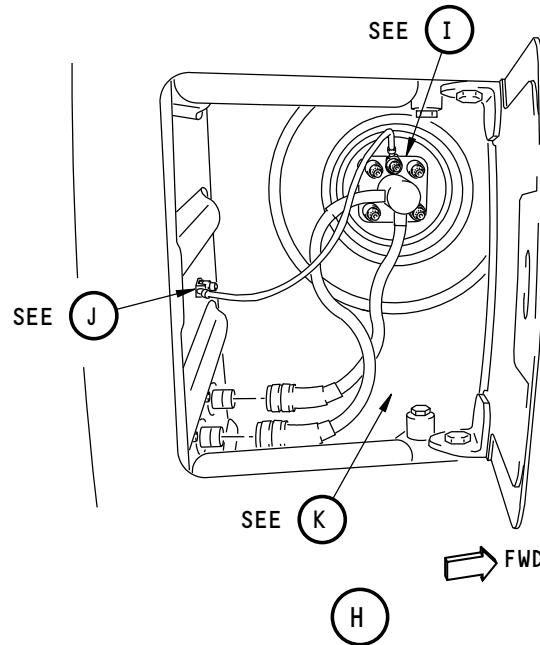
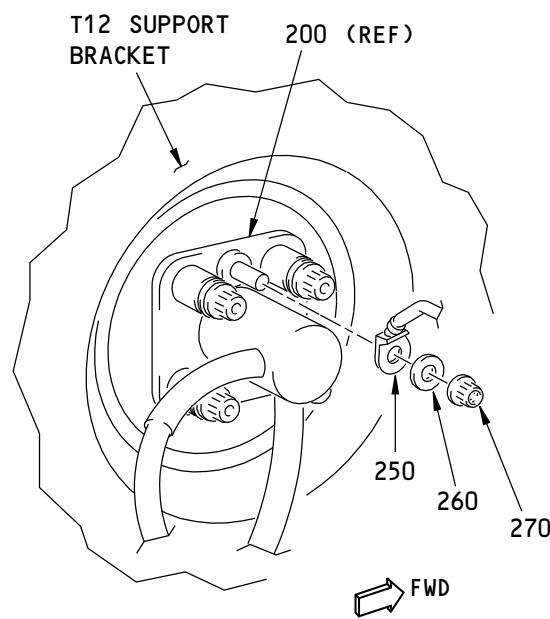
**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 19

Jun 15/2016

D633A106-AKS

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F24736 S00041154053\_V1

**Inlet Cowl Installation**  
Figure 33-1 (Sheet 10)

71-00-02

P/P BUILDUP FIGURE 33-1

Page 20

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

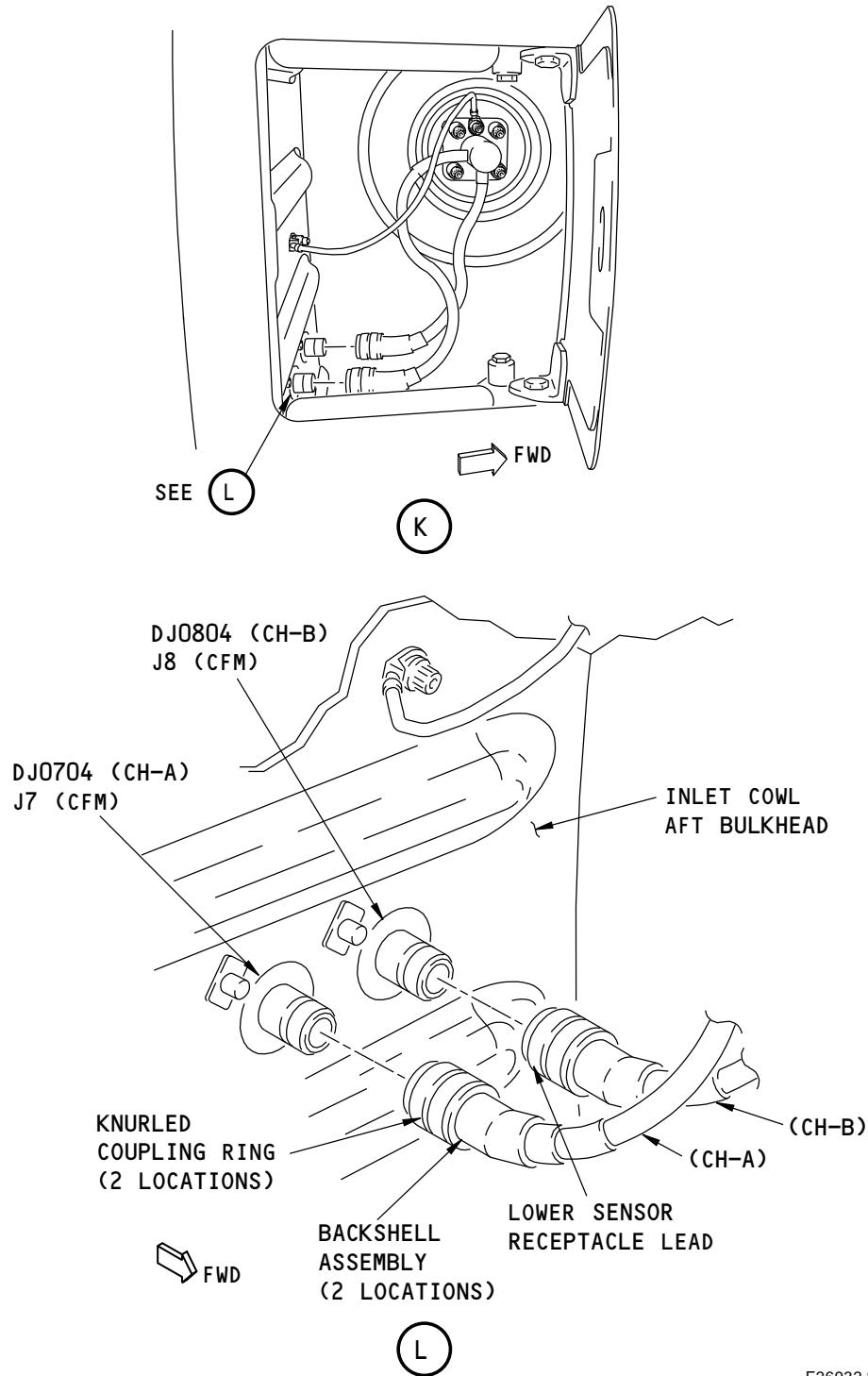
| ITEM NO. | PART NUMBER   | NOMENCLATURE  | UC  | QTY |
|----------|---------------|---|-----|-----|
| 33-1     |               | <b>INLET COWL INSTALLATION</b><br><b>(FIGURE 33-1, SHEET 10)</b><br><br>ATTACH BONDING JUMPER (250) TO TERMINAL STUDS ON INLET COWL BULKHEAD AND SECURE WITH WASHER (255) AND NUT (265).<br><br>IF BONDING JUMPER IS NOT INSTALLED ON T12 SENSOR, USE Brisal OX grease, D00625 [CP2338] (C1) TO LUBRICATE BONDING JUMPER (250), WASHER (260) AND NUT (270). ATTACH BONDING JUMPER TO TERMINAL LUG AND SECURE WITH WASHER (260) AND NUT (270). |     |     |
| 250      | 69A94         | . BONDING JUMPER (VF6880) (SUPPLIED WITH ENGINE)  | REF | -   |
| 255      | NAS1149E0432R | . WASHER  |     | 1   |
| 260      | 649-341-011-0 | . WASHER (VF6880) (SUPPLIED WITH ENGINE) (1 REQD)   | REF | -   |
| 265      | AS3485-10     | . NUT   |     | 1   |
| 270      | 649-304-004-0 | . NUT (V07482) (SUPPLIED WITH ENGINE) (1 REQD)  | REF | -   |
| C1       | D00625        | . BRISAL OX GREASE (CP2338)<br><br>TIGHTEN NUT (265) TO 70-85 POUND-INCHES (7.9-9.6 NEWTON METERS) AND, IF NECESSARY, TIGHTEN NUT (270) TO 95-110 POUND-INCHES (11-12.5 NEWTON METERS).   | CON | AR  |

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 21

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

F26932 S00041154054\_V1

Inlet Cowl Installation  
Figure 33-1 (Sheet 11)

71-00-02

P/P BUILDUP FIGURE 33-1

Page 22

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**

| ITEM NO. | PART NUMBER | NOMENCLATURE  | UC | QTY |
|----------|-------------|---|----|-----|
| 33-1     |             | <p><b>INLET COWL INSTALLATION</b><br/> <b>(FIGURE 33-1, SHEET 11)</b></p> <p><b>CAUTION:</b> DO NOT OVERTIGHTEN THE PLUG COUPLING RING. DO NOT USE WATER PUMP PLIERS, PIPE WRENCHES OR VISE GRIPS TO TIGHTEN THE COUPLING RING OR DAMAGE TO THE ELECTRICAL CONNECTOR CAN OCCUR.</p> <p>CONNECT J8 ELECTRICAL CONNECTOR, DJ0804 (CH-B), TO INBOARD RECEPTACLE AND J7 ELECTRICAL CONNECTOR, DJ0704 (CH-A) TO OUTBOARD RECEPTACLE. TURN KNURLED COUPLING RING WHILE WIGGLING THE BACKSHELL ASSEMBLY. AFTER FULLY SEATING THE COUPLING RING, USE SOFT-JAWED PLIERS OR A STRAP WRENCH TO TIGHTEN THE COUPLING RING AN ADDITIONAL 1/8 TURN OR UNTIL PLIER SLIPAGE OCCURS.</p> <p>CHECK THAT RESISTANCE ON ENGINE JUMPER AT INLET COWL AFT BULKHEAD AND T12 BONDING JUMPER AT INLET COWL FORWARD BULKHEAD IS NOT MORE THAN 0.001 OHMS.</p> <p>CHECK THAT RESISTANCE BETWEEN T12 BONDING JUMPER AT T12 SENSOR IS NOT MORE THAN 0.0025 OHMS.</p> <p>CLOSE T12 ACCESS DOOR ON INLET COWL.</p> |    |     |

**71-00-02****P/P BUILDUP FIGURE 33-1**

Page 23

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**QEC SYSTEM TESTS**
**1. General**

- A. QEC system tests provided in this section are optional and duplicate tests normally performed after engine installation on an airplane.

**2. IDG Cooling Lines Flushing Procedure**

## A. General

**CAUTION:** DO NOT FLUSH THE IDG WHEN YOU DO THIS PROCEDURE. MAKE SURE THE OIL-IN AND OIL-OUT HOSES ARE DISCONNECTED FROM THE IDG. IF THIS STEP IS NOT OBEYED, DAMAGE TO THE IDG CAN OCCUR.

- (1) This flushing procedure is done on the external IDG cooling lines only. The oil-in and oil-out lines must be disconnected from the IDG before you start this procedure.

## B. Equipment

- (1) Flushing cart, capable of 14 GPM flow capacity and a maximum pressure of 250 psi, or; Flushing cart, Boeing Flush Cart F/D 1206-00.29 or equivalent.
- (2) 5-gallon container to collect cleansing oil or solvent.
- (3) Patch filter, 40 micron

## C. Consumable Materials

- (1) solvent, B00074 (Optional Type 1)
- (2) Nitrogen, minimum of 3.5 lbs (a pressure drop of 500-1000 psig) from a 230 cubic foot nitrogen tank (atmospheric 2200 psig).

## D. Procedure

- (1) Disconnect the oil-in and oil-out hoses from the IDG.
- (2) Connect the patch filter to the IDG oil-out hose.
- (3) Connect the flushing cart to the oil-in hose and the patch filter.

**NOTE:** Flushing direction should be in the direction of normal oil flow.

- (4) Start the flushing procedure with a new patch filter and with the patch filter in the BY-PASS position.
- (5) Permit the system to flush for a minimum of 10 minutes.
- (6) After 10 minutes, visually examine all tube fittings to make sure no leakage has occurred.
- (7) Continue to flush the external oil system for an additional 5 minutes.
- (8) Turn the patch filter selector valve to either "PATCH FILTER A" or "PATCH FILTER B" position and continue to flush the IDG external oil system for an additional 1 minute.
- (9) Turn the patch filter selector valve to the other patch filter and check the used patch filter as follows:
  - (a) Examine the patch filter for signs of visible metallic particles
    - 1) All metallic particles are not permitted.
  - (b) Light discoloration of the patch filter is permitted.

**71-00-03**
**QEC SYSTEM TESTS FIGURE 1**

Page 1

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

- (10) If the patch filter is acceptable, continue on to the next step. If the patch filter is not acceptable, replace the filter and do the above steps again.

**NOTE:** Before you do the above steps again, make sure you clean the flush sample port to remove all previous contamination.

- (11) Take a 200 ml solvent sample downstream of the oil system and do a check for contamination using the criteria given in the Sundstrand Bulletin 627, or use one of the inspections methods given below:
- (a) Particle Count Method
    - 1) Analyze the sample you took and use the particle limits given below for different sizes to determine if the contamination is within permitted levels:
      - a) 5 to 15 microns in size - 1,024,000 particles are permitted
      - b) 15-25 microns in size - 182,400 particles are permitted
      - c) 25-50 microns in size - 32,400 particles are permitted
      - d) 50-100 microns in size - 5,760 particles are permitted
      - e) More than 100 microns in size - 1,024 particles are permitted.
    - 2) Particle Weight Method
      - a) The total weight of the particles in the oil sample can not be more than 2.0 mg for each 100 ml.
  - (12) If the contamination is more than the limits, do the flushing procedure again. If it is not, then do the next step.
  - (13) Use nitrogen gas to purge the flushing cart hoses and to dry the IDG oil cooling circuit.
  - (14) Disconnect the flushing cart from the oil-in hose and the patch filter.
  - (15) Disconnect the patch filter from the oil-out hose.
  - (16) Connect the oil-in and oil-out hoses to the IDG.
    - (a) Use the torques given in IDG PLUMBING INSTALLATION/Figure 24-1.

71-00-03

QEC SYSTEM TESTS FIGURE 1

Page 2

Jun 15/2016

D633A106-AKS

**737-600/700/800/900**  
**POWERPLANT BUILDUP MANUAL**
**QEC INSPECTION/CHECK**
**1. General**

- A. The following procedure provides general inspection limits you can use when you install new or used QEC components on the engine. This procedure should not be used by itself to determine the serviceability of a part. Rather, this procedure should be used together with your airline's existing standard practices to determine serviceability.
- B. This section is optional but may be operator policy.
- C. This inspection is applicable to Boeing QEC parts only. For parts owned by the engine manufacturer, refer to the applicable procedures in the Airplane Maintenance Manual (AMM) or Engine Shop Manual (ESM).

**2. Inspection**
**A. Procedure**

- (1) Use the guidelines below when you must make an inspection of the parts in the QEC kit:
  - (a) Bolts/screws, washers, spacers, couplings, clamps, clampshells:
    - 1) Damage is not permitted.
  - (b) Nuts:
    - 1) Damage is not permitted.
    - 2) For self-locking nuts, do a check of the self locking feature. Refer to AMM PAGEBLOCK 70-20-01/201.
  - (c) O-rings:
    - 1) O-rings should not be used again.
  - (d) Brackets:
    - 1) Cracks:
      - a) Not permitted.
    - 2) Scratches, nicks, pits, scoring:
      - a) Permitted up to 5% of the original thickness. Blend smoothly to 63Ra finish.
    - 3) Deformation:
      - a) Not permitted.
  - (e) Pneumatic ducts:
    - 1) Refer to DUCTS, REPAIR OF PNEUMATIC, THE BOEING COMPANY, CMM 36-10-03 for inspection and repair information.
  - (f) Hoses:
    - 1) Hoses that include fire shielding (hydraulic hoses):
      - a) Visually examine the hose for damage. If damage is found, refer to AMM PAGEBLOCK 20-10-52/801 for inspection and repair information.
      - b) Damage to the fire protection shielding is not permitted.
    - 2) Hoses that do not include fire shielding (IDG oil cooling hoses and pneumatic hoses):
      - a) Visually examine the hose for damage. If damage is found, refer to AMM PAGEBLOCK 20-10-52/401 for inspection and repair information.
  - (g) Tubes:
    - 1) Refer to AMM PAGEBLOCK 20-10-51/801 for inspection and repair information.

**71-00-04**
**QEC INSPECTION/CHECK FIGURE 1**

Page 1

Jun 15/2016

D633A106-AKS

737-600/700/800/900  
POWERPLANT BUILDUP MANUAL

- (h) Line Replaceable Units (LRU)(IDG, hydraulic pump, bleed air regulator, fire detectors, etc.):
  - 1) Refer to the applicable CMM for inspection and repair information.
- (i) Structural parts (forward and aft engine mounts, thrust links):
  - 1) Refer to the applicable CMM for inspection and repair information.
- (j) Wire Harnesses:
  - 1) For vendor wire harnesses (such as those owned by the engine manufacturer), refer to the applicable vendor CMM for inspection and repair information.
  - 2) For Boeing harnesses, refer to the Standard Wiring Practices Manual for inspection and repair information.
- (k) Aluminum foil markers:
  - 1) Refer to AMM PAGEBLOCK 20-10-21/401 for inspection and replacement information.

71-00-04

QEC INSPECTION/CHECK FIGURE 1

Page 2

Jun 15/2016

D633A106-AKS

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