



737-600/700/800/900

Illustrated Tool and Equipment Manual

The Boeing Company

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**737-600/700/800/900
ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**Revision No. 43
FEB 05/2016**

To: All holders of this Boeing Document D634A501

Attached is the current revision to the Boeing 737-600/700/800/900 Illustrated Tool and Equipment Manual (ITEM).

The Illustrated Tool and Equipment Manual 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 a R (Revised), A (Added), O (Overflow, i.e. changes to the document structure and/or page layout), or D (Deleted). 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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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 TRs with a later date will be incorporated into the next revision of the manual (unless they are superseded by a subsequent TR).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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<u>LOCATION OF CHANGE</u>	<u>DESCRIPTION OF CHANGE</u>
<u>FRONTMATTER</u>	Changed to Air Transport Association iSpec 2200 format.
<u>CHAPTER 07</u>	
07-00-01	Added "C07012 replaces F70244 for future procurement".
07-00-02	Changed applicability of F80240-1 to 737-100 thru -800, was all 737 airplanes.
07-00-09	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
07-00-11	Added C07013-1 and -64, Tail Stand - AFT Fuselage Jacking Point.
07-00-13	Added Subject 07-00-13.
<u>CHAPTER 12</u>	
12-10-04	Changed F72942-3 to F72942-4 in Detail A of Figure 1.
<u>CHAPTER 20</u>	
20-00-02	Changed dimensions/weight unit.
20-10-03	Changed weights/dimensions.
20-10-07	Changed weights/dimensions.
20-10-08	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
<u>CHAPTER 21</u>	
21-00-01	Added J21009-48, Air Sampler, Aircraft Pneumatic system. J21009-48 replaces J21008-33 for future procurement.
21-00-03	Added Subject 21-00-03.
21-30-01	Added A21010-203, Vacuum Tank - Pressure Relief Valve Test, A21010-203 replaces A21010-190 for future procurement.
21-50-03	Added C21005-70, Hoist Adapter - Air Conditioning Pack. C21005-70 replaces C21005-62 for future procurement. Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1. Removed typos.
21-50-04	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
21-50-12	Added Subject 21-50-12.
<u>CHAPTER 22</u>	
22-30-03	Change applicability of A22004-1 to 737-600 thru -800, was 737-600 thru -900.

HIGHLIGHTS



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LOCATION OF CHANGE

DESCRIPTION OF CHANGE

22-30-04

Changed applicability of J22002-1 to 737-600 thru -800, was 737-600 thru -900.

CHAPTER 24

24-20-01

Added C24004-43, Power Distribution Panel Removal and Installation Equipment. C24004-43 replaces C24004-1 for future procurement.

CHAPTER 25

25-10-01

Changed weights/dimensions.

CHAPTER 26

26-20-03

Added C26004-78 and -79, Test Equipment - Engine Fire Extinguishing System. C26004-78 and -79 replace -73 and -74, respectively, for future procurement.

26-20-05

Added C26006-70, Test Box - Cargo Fire Extinguishing System. C26006-70 replaces -1 for future procurement.

Removed all military references data.

CHAPTER 27

27-10-03

Changed weights/dimensions.

27-10-05

Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.

27-10-08

Added "C27093 replaces F80220 for future procurement".

27-10-10

Added Subject 27-10-10.

27-20-04

Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.

27-20-05

Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.

27-20-06

Changed applicability of F80120-1 to all 737 airplanes except -100 and -200 was all 737 airplanes.

27-30-35

Delete C27086-27, Spring Removal/Installation Equipment - Elevator Tab Mechanism Assembly. C27086-27 is not used on 737-600 thru -900.

27-40-14

Added table F71422-829 and -839. Changed applicability notes in Usage and Description.

27-40-19

Added weight of C55005-19.

27-40-22

Added C27075-9, Spanner Wrench - Brake Nut, Stab Trim Actuator. Added CMM references.

Changed weights/dimensions.

27-50-01

Changed weights/dimensions.

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<u>LOCATION OF CHANGE</u>	<u>DESCRIPTION OF CHANGE</u>
27-50-02	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
27-50-06	Changed weights/dimensions.
27-50-10	Changed typos of sheet 3 and 4.
27-80-02	Removed F70207-151,Kit - Rigging Pin. F70207-151 is used on 737-MAX airplanes only.
27-80-04	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
<u>CHAPTER 28</u>	
28-10-02	Removed Subject 28-10-02.
28-10-04	Changed weights/dimensions.
28-20-01	Changed weights/dimensions.
28-20-03	Added A28005-82, Test Equipment - Leak and Pressure, APU Fuel Line Shroud. A28005-82 replaces -50 and -42 for future procurement.
28-20-05	Changed weights/dimensions.
<u>CHAPTER 29</u>	
29-10-02	Changed weights/dimensions.
<u>CHAPTER 32</u>	
32-10-01	Changed weights/dimensions.
32-10-08	Added C32034-273, Removal/Installation Equipment - Main Landing Gear. C32034-273 replaces C32034-227 for future procurement.
32-10-35	Added C32053-37, Fixture Equipment - Side Strut Assembly, Main Landing Gear. C32053-37 supersedes C32053-1.
32-20-07	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1. Removed typos.
32-30-03	Added C32036-88, Fixture Equipment - Actuator Assemblies, Nose Landing Gear. C32036-88 replaces -46, -45, and -1 for future procurement.
32-30-05	Changed applicability of G32021-18 to 737-100 thru -900 airplanes, was all 737 airplanes. Changed weights/dimensions.
32-40-05	Added the missing -35 to PART NUMBER title. Removed typos.

HIGHLIGHTS



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LOCATION OF CHANGE

DESCRIPTION OF CHANGE

CHAPTER 33

33-00-01

Added A33003-681, Breakout Box - Multipurpose. A33003-681 replaces A33003-359 for future procurement.

CHAPTER 34

34-10-03

Added A34016-206, -209, -217, -218, -223, -224, Breakout Box Equipment - Arinc 600, Line Maintenance.

CHAPTER 35

35-20-02

Changed weights/dimensions.

CHAPTER 38

38-10-01

Added A38010-45, Test Cable - Potable Water Quantity Transmitter. A38010-45 replaces A38010-11 for future procurement.

38-30-03

Changed weights/dimensions.

38-30-15

Added J38004-247, Pump Equipment - Vacuum Lavatory System. J38004-247 replaces J38004-232 for future procurement.

CHAPTER 47

47-00-01

Changed applicability of G47001-19 to all 737 airplanes, was 737-600 thru -900.

CHAPTER 49

49-10-02

Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.

49-10-03

Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.

Removed typos.

49-10-04

Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.

49-10-05

Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.

49-10-06

Added the missing airplanes applicability, all 737 airplanes except -100 thru -500, to Usage and Description.

CHAPTER 51

51-00-01

Removed typo.

51-10-01

Added F70330-162, Static Balance Equipment - Control Surfaces. F70330-162 is used on all 737 except -100 thru -500.

CHAPTER 52

52-00-04

Added Subject 52-00-04.

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52-30-04	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
52-60-02	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
52-60-07	Added Subject 52-60-07.
<u>CHAPTER 54</u>	
54-50-02	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
54-50-04	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
54-50-08	Added C54020-9, Installation Equipment - Strut Fire Seal. C54020-9 supersedes C54020-1.
<u>CHAPTER 57</u>	
57-20-03	Added J28010-135, Console Equipment - Shop Air Supply. J28010-135 supersedes J28010-96.
<u>CHAPTER 71</u>	
71-00-01	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
71-00-03	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
71-00-08	Changed applicability of C12001-35 and -38 to 737-100 thru -900 airplanes, was all 737 airplanes.
71-10-01	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
71-10-02	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
<u>CHAPTER 78</u>	
78-10-01	Added C78009-72, Remove/Install Tool - Primary Exhaust Assemblies. C78009-72 replaces C78009-1, -19, -38 and -39 for future procurement.
78-30-05	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.

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78-30-06	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
78-30-11	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
78-30-14	Changed to BSME B-30.20, para. 20-1.3.4, was ASME B-30.2, para. 20-1.3.4. Changed to BSME B-30.20, para. 20-1.3.1, was ASME B-30.2, para. 21-1.3.1.
78-30-17	Added B78015-39, Overhaul Set - Thrust Reverser Locking Actuator Assembly. B78015-39 replaces -23 for future procurement.

HIGHLIGHTS



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INTRODUCTION

The Illustrated Tool and Equipment Manual is prepared as specified by the Air Transport Association iSpec 2200.

The Illustrated Tool and Equipment Manual provides descriptive information, illustrations and explanation for Boeing-designed tools, ground handling and testing equipment recommended by Boeing to facilitate airplane maintenance, component maintenance and servicing. Tool and equipment classification is arranged by chapter/section/subject as specified by ATA iSpec 2200.

The 737 airplane tools included in the D634A501, 737-600 thru -900 Illustrated Tool and Equipment Manual (ITEM) and tools included in the D6-17371, 737-100 thru -500 Illustrated Tool and Equipment List (ITEL) have been combined into a single data base.

1. GENERAL

- A. The letters listed below are used as prefixes to the part numbers on Boeing-designed tools for customer airlines:
 - A - Tools designed for 767 airplanes.
 - B - Tools designed for 757 airplanes.
 - C - Tools designed for 737 airplanes.
 - F - Tools designed for 707/727/737 airplanes.
 - G - Tools designed for 747 airplanes.
 - J - Tools designed for 777 airplanes.
 - K - Tools designed for 787 airplanes.
 - R - Proprietary tools procurable through Boeing Spares only.
- B. Tools initially designed for Boeing manufacturing and adopted later for customer airline use, include tool prefixes as follows:
 - AJ - Assembly Jig
 - BOF - Boring Fixture
 - CF - Checking Fixture
 - DFT - Design Facility Tool
 - DJ - Drill Jig
 - FME - Floor-Mounted Mechanical Equipment
 - LJ - Locating Jig
 - ME - Mechanical Equipment
 - MIT - Miscellaneous Tool
 - OHME - Overhead Mechanical Equipment
 - PME - Floor Position Unit (Portable)
 - PRE - Protective Equipment
 - SE - Special Equipment

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SME - Shipping Mechanical Equipment

ST - Standard Tool

TE - Test Equipment

TME - Transportation Mechanical Equipment

TSJ - Test Jig

NOTE: As specified by ATA definition, the word "replace" means that the tool is still usable but the replacing tool is recommended for future procurement. The word "supersede" means that the superseded tool is not usable and it must be reworked or the tool which supersedes it must be used as the substitute tool.

- C. The tools designed by Boeing are listed as airplane maintenance tools, component maintenance tools or "other." Airplane maintenance tools are used by the mechanic during line maintenance on the airplane and its systems and are identified in the Aircraft Maintenance Manual (AMM). Component maintenance (overhaul) tools are used by mechanics during shop work on airplane components. These tools are identified in the Component Maintenance Manual (CMM). The "other" category of tools includes Ramp tools, Structural Repair Manual (SRM) tools, Bearing and Bushing tools, Fault Isolation Manual tools (FIM) and Airplane Recovery Document (ARD) tools.
- D. Tool parts that have been identified in the REPAIRABLE/REPLACEABLE PARTS tables are recommended as "suggested spare parts" in the tool drawing.
- E. Weight is reported in pounds and kilograms. Fractions of a pound are generally rounded up to the next pound and then converted to kilograms. Dimensions are reported in inches and millimeters. Fractions of an inch are rounded up and then converted to millimeters. The dimensions noted for each tool in the body of this document are generally the outside dimensions of the container in which the tool is stored, not the actual dimensions of the tool.
- F. Tool and tool usage illustrations depicted in this document are graphic representations. The illustrations are of a general nature, use no particular scale and often omit airplane structure for clarity. For definitive tool illustrations and tool usage, refer to the current tool drawings and applicable maintenance manual procedures. Proof load diagrams and all dimensions shown are approximate and should only be used as information for planning purposes. The current tool drawing is the only complete and correct source of information for proof load testing.

2. BEARINGS AND BUSHINGS

Sections 20-50 and 20-51, Bearings and Bushings, have been added to the 737 ITEL/ITEM. These sections include all current Boeing designed Bearing and Bushing tools noted in the Standard Overhaul Practices Manual (SOPM) 20-50-03. Bearing and Bushing usages are not as specific to a particular airplane as they are to a particular use. All Boeing designed, jet transport airplane, Bearing and Bushing tools are included.

In all Bearing and Bushing tool usage, the correct part number of the bearing or bushing must be known prior to identifying the tool used to install or remove it. The Bearing and Bushing tool information in the 737 ITEL/ITEM includes bearing and bushing part numbers. The 737 ITEL/ITEM should only be used as a reference document. It is not the definitive source of information on tool usage. Refer to the Airplane Maintenance Manual (AMM), the Component Maintenance Manual (CMM), the Standard Overhaul Practices Manual (SOPM) 20-50-03 and the tool drawing for complete usage information. If the component overhaul instructions differ from the data in SOPM 20-50-03, use the component overhaul instructions.

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3. PUBLICATION CHANGE REQUESTS

Communications regarding this publication should be directed to Boeing Commercial Airplanes, Maintenance Publications Engineering; Attention: Supervisor, Repair Manuals. For uniform handling and direct routing of questions to the proper Boeing organization, use the Publications Change Request (PCR) form. Boeing makes this form available to your publications organization.

4. BAE SYSTEMS TOOL DRAWINGS:

BAE Systems has purchased the Intellectual Property (IP) of the Boeing Commercial Electronics group. The IP pertains to certain electrical/electronic airplane components, their associated drawings and product support documents, such as Component Maintenance Manuals (CMM). Specified in many of these CMM's are Ground Support Equipment (GSE) that was designed by the Boeing Maintenance Ground Operations Systems (MGOS) group. The affected GSE drawings are also now the IP of BAE Systems. Tools that are affected by this transaction in this document are identified in a paragraph in the tool's Usage.

For technical questions and customer support concerning these tools identified as BAE Systems IP, please contact BAE Systems at: cs-customers.service@baesystems.com.

5. TOOL CHANGE BULLETIN (TCB):

This Boeing form is used to provide airlines and vendors the most timely notice of significant changes or problems related to support equipment designed or recommended by the Boeing Company.

6. CE MARKINGS:

787 lifting and load bearing tools have been evaluated to conform to European Economic Area requirements of health, safety and the environment. These tools are noted with a "CE" mark. The "CE" mark states that the tools conform to the requirements of Machinery Directive 2006/42/EC. The "CE" tools include new topics and information relevant to the requirements of health, safety and the environment. Topics added to the 787 ITEM include: The CE Declaration of Conformity, Operating Instructions, Proof Load, Maintenance, Inspections, Calibration/Certification, Storage and Decommissioning.

7. THREE ELEMENT NUMBERING SYSTEM

A three element numbering system is used in this manual. The first element (the first two digits) designates the ATA Specification 100 chapter. The second element, (the second two digits) designates the section within that chapter. The third element (fifth and sixth digits) designate a subject tool in that section of the manual. These numbers are shown in a large, bold, font, located in the lower, right-hand corner of each page. Directly to the right of the chapter/section/subject numbers, the page number and issue/revision date are listed.

There are often gaps in the numerical chapter/section/subject sequences. Omissions in the subject sequence indicate that the next subject tool in the sequence is not required for the "Next Generation" (D634A501, 737-600 thru -900 ITEM) series airplane.

See Figure 1 as an example of the three element numbering system. Chapter 28, "Fuel" is designated by the first two digits. Section 20, "Distribution" is designated by the second two digits. Subject 01 is a designator for the first tool in Chapter 28, Section 20. Each subject starts with page 1 and runs consecutively to the next subject, which again starts with page 1.

8. NUMERICAL INDEX

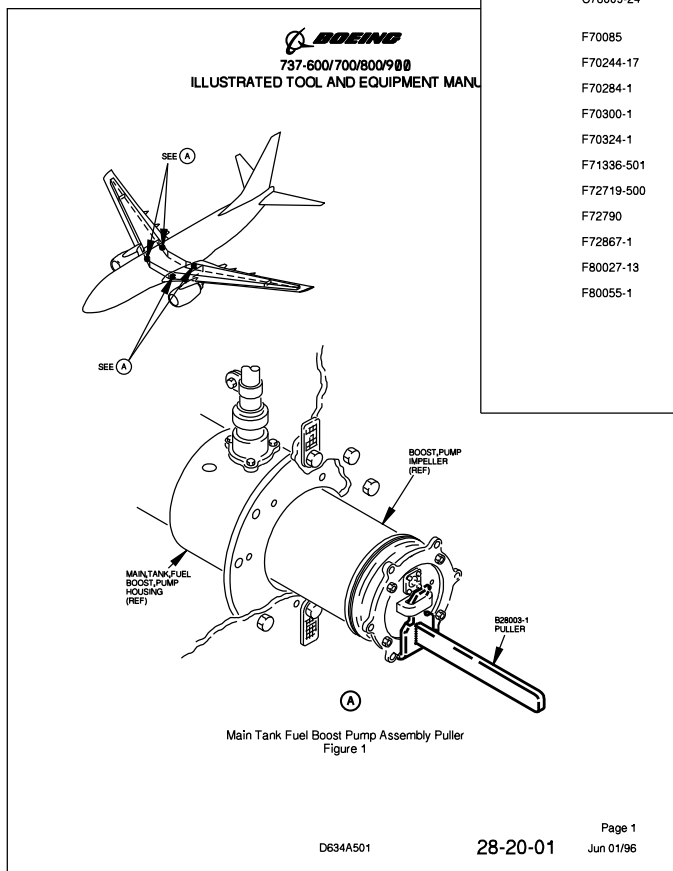
Specific tool information is found by using the Numerical Index. The left hand column contains the tool part number in alpha-numeric order. The second column contains the tool title. The third column contains the chapter-section-subject of where the tool information is located. As an example, see Figure 1 for data on the B28003-1, Puller - Main Tank Fuel Boost Pump Assembly. Refer to the Numerical Index and locate tool number B28003-1. The index shows that the information for this tool is found in the subject 28-20-01. Turn to the chapter-section-subject 28-20-01 for information on the B28003-1 puller.

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B28003-1 Puller - Main Tank Fuel Boost Pump Assembly 28-20-01



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A25020-8	Gage - Inspection, Seat Track, Flight Crew	25-10-01
A27021-29	Kit - Protractor	27-30-01
A38001-16	Plugs - Vent, Vacuum Waste System	38-30-04
A38003-20	Blockage Remover- Vacuum Toilet	38-30-02
A38007-1	Plug - Vacuum Waste System	38-30-03
A38009-11	Sensor Cleaner - Lavatory Waste Tank	38-30-05
B52004-1	Installation Tool - Door Seal	52-00-01
C09002	Data Sheet - 737-600/-700/-800 Towbar Design	09-00-01
C27028-1	Rigging Bar - Elevator Tab	27-30-02
C71022-1	Wrench - Torque, CFM56-7 Forward/Alt Engine Mount	71-20-01
C78009-24	Removal/Installation Tool - CFM56-7 Primary Exhaust Sleeve & Plug	21-30-01
F70085	Wrench - Spanner Bearing Retainer Nut	52-10-02
F70244-17	Sling Assembly - Lifting, Fuselage	07-00-01
F70284-1	Wear Gage - Plug and Receptacle, Ground Power	24-40-01
F70300-1	Adapter - Flap Drive	27-50-01
F70324-1	Canopy - Forward Entry Door	52-10-03
F71336-501	Lock Assembly - Stabilizer Trim	27-40-02
F72719-500	Eyebolt Assembly - Main Gear Towing	09-00-02
F72790	Mount - Control Wheel Protractor	27-00-01
F72867-1	Adapter - Torque and Force Test, Control Wheel	27-10-01
F80027-13	Lock Assembly - Horizontal Stabilizer	27-40-01
F80055-1	Assembly - Trammel Bar, Stabilizer Trim Actuator	27-40-03

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Tool Location Example
Figure 1

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