

**CHAPTER**

**57**

**WINGS**



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

**CHAPTER 57**  
**WINGS**

Subject/Page	Date	Subject/Page	Date	Subject/Page	Date
57-EFFECTIVE PAGES		57-20-03 (cont)			
1	Feb 05/2016	4	BLANK		
2	BLANK	57-20-04			
57-CONTENTS		1	Aug 05/2014		
R 1	Feb 05/2016	2	Aug 05/2014		
2	BLANK	3	Aug 05/2014		
57-00-01		4	Aug 05/2014		
1	Aug 05/2014				
2	Aug 05/2014				
3	Aug 05/2014				
4	BLANK				
57-00-02					
1	Aug 05/2015				
2	Aug 05/2015				
3	Aug 05/2015				
4	BLANK				
57-10-01					
1	Aug 05/2015				
2	Aug 05/2015				
3	Aug 05/2015				
4	BLANK				
57-20-01					
1	Aug 05/2014				
2	Aug 05/2015				
3	Aug 05/2015				
4	Aug 05/2015				
5	Aug 05/2015				
6	Aug 05/2014				
7	Aug 05/2014				
8	Aug 05/2014				
57-20-02					
1	Aug 05/2015				
2	Aug 05/2015				
57-20-03					
R 1	Feb 05/2016				
R 2	Feb 05/2016				
R 3	Feb 05/2016				

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

## 57-EFFECTIVE PAGES



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

**CHAPTER 57**  
**WINGS**

<b><u>SUBJECT</u></b>	<b><u>TITLE</u></b>	<b><u>PART NO.</u></b>
<b>57</b>	<b>WINGS</b>	
57-00-01	SPOTFACE TOOL - CORROSION REMOVAL, WING BOX SKINS	150MIT65B00112
57-00-02	PROTECTIVE EQUIPMENT - PROTECTIVE RING FOR LOWER WING PANEL ACCESS DOOR	C28013-2, -3
57-10-01	WRENCH - TRUNNION SPHERICAL BEARING, MAIN LANDING GEAR	C32023-1, -12
57-20-01	SLING EQUIPMENT - REMOVAL/INSTALLATION, WINGLET (CE)	C57002-15
57-20-02	TEST EQUIPMENT - WING DRY BAY VAPOR SEAL	C57003-1
57-20-03	CONSOLE EQUIPMENT - SHOP AIR SUPPLY	J28010-135, -26
57-20-04	SPOTFACE EQUIPMENT - CORROSION REMOVAL, WING BOX SKINS	G57012-1

## **57-CONTENTS**



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

**PART NUMBER: 150MIT65B00112**

**NAME:** SPOTFACE TOOL - CORROSION REMOVAL, WING BOX SKINS

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** NO

**OTHER MANUALS:** YES

SRM 57-20-01

**USAGE & DESCRIPTION:** The 150MIT65B00112 corrosion removal spotface tool is used on all 737-100 thru -900 airplanes.

150MIT65B00112 is used in conjunction with a customer-furnished drive unit capable of 1500 rpm. 150MIT65B00112 is used to remove corrosion at wing skin fasteners. The 150MIT65B00112 consists of a four blade cutter assembly. Also included is a pilot and commercial microstop for depth of cut adjustment. Three spotface cutters of varying diameters and six pilots of varying length and diameter provide for 18 spotface combinations. 150MIT65B00112 is used for structural repair applications.

Refer to the Structural Repair Manual (SRM) 57-20-01 and the current 150MIT65B00112 drawing for complete usage instructions.

150MIT65B00112 consists of:

150MIT65B00112		
QUANTITY	NOMENCLATURE	DETAIL NUMBER
1	PILOT 1/4-INCH DIA x 3.1-INCHES	-1
1	PILOT 1/4-INCH DIA x 4.1-INCHES	-2
1	PILOT 5/16-INCH DIA x 3.1-INCHES	-3
1	PILOT 5/16-INCH DIA x 4.1-INCHES	-4
1	PILOT 3/8-INCH DIA x 3.1-INCHES	-5
1	PILOT 3/8-INCH DIA x 4.1-INCHES	-6
1	SPOTFACER	-7
1	SPOTFACER	-8
1	SPOTFACER	-9
1	MICRO STOP	Z1334-W
1	STORAGE BOX	

**WEIGHT:** 1 lb (0.45 kg)

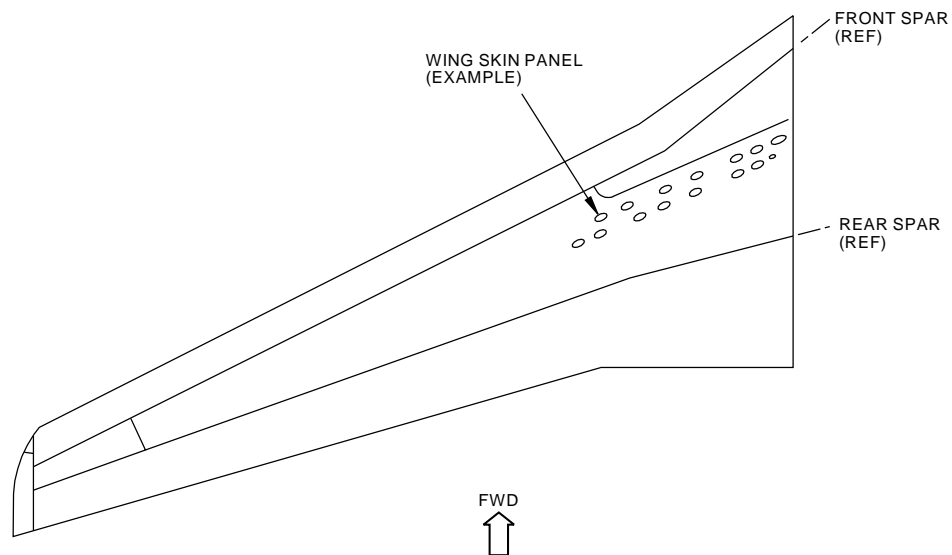
**DIMENSIONS:** 3 x 2 inches (76 x 51 mm)

**NOTE:** G57012 replaces 150MIT65B00112 for future procurement.

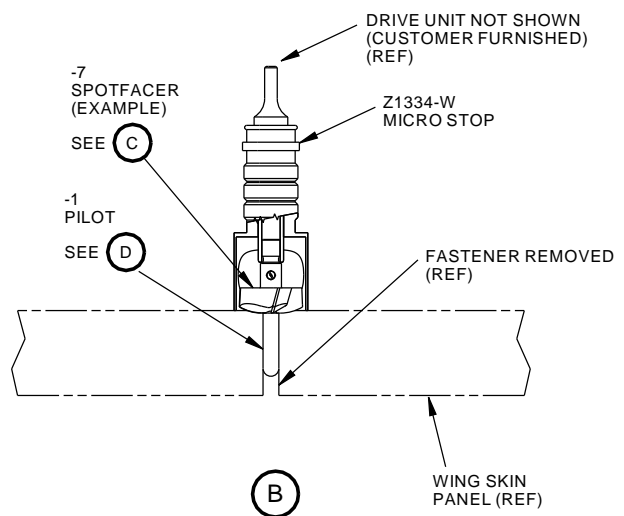
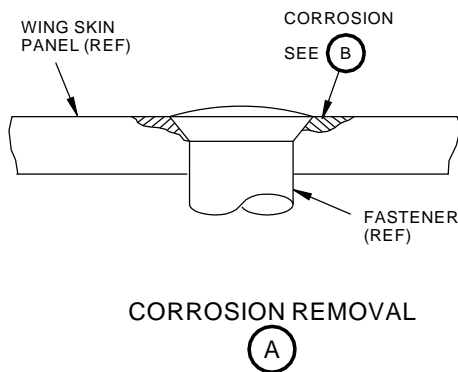
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737-600/700/800/900  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



LEFT WING IS SHOWN;  
RIGHT WING IS OPPOSITE  
PLAN VIEW



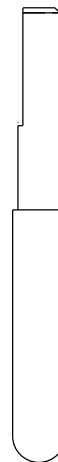
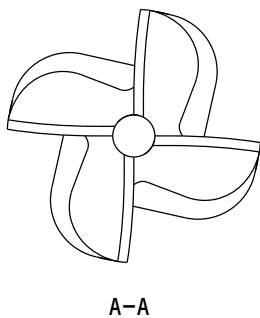
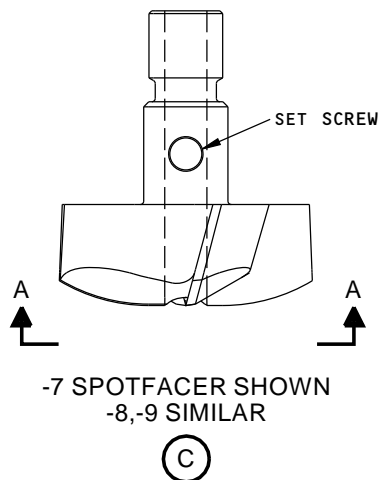
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Spotface Tool Usage  
Figure 1 (Sheet 1 of 2)

57-00-01



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



2078997 S0000437268\_V1

Spotface Tool Usage  
Figure 1 (Sheet 2 of 2)

57-00-01



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

**PART NUMBER: C28013-2, -3**

**NAME:** PROTECTIVE EQUIPMENT - PROTECTIVE RING FOR LOWER WING  
PANEL ACCESS DOOR

**AIRPLANE MAINTENANCE:** YES

AMM 28-11-00, AMM 28-11-11

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The C28013-2 protective equipment is used on all 737-100 thru -500  
airplanes.

The C28013-3 protective equipment is used on all 737 airplanes, except  
737-100 thru -500 airplanes..

C28013 is used to protect the edges of the fuel cell access openings on  
the lower wing panels during wing structural inspections.

Refer to AMM 28-11-00, AMM 28-11-11 and the current C28013 drawing  
for complete usage instructions.

C28013-2 and -3 consists of:

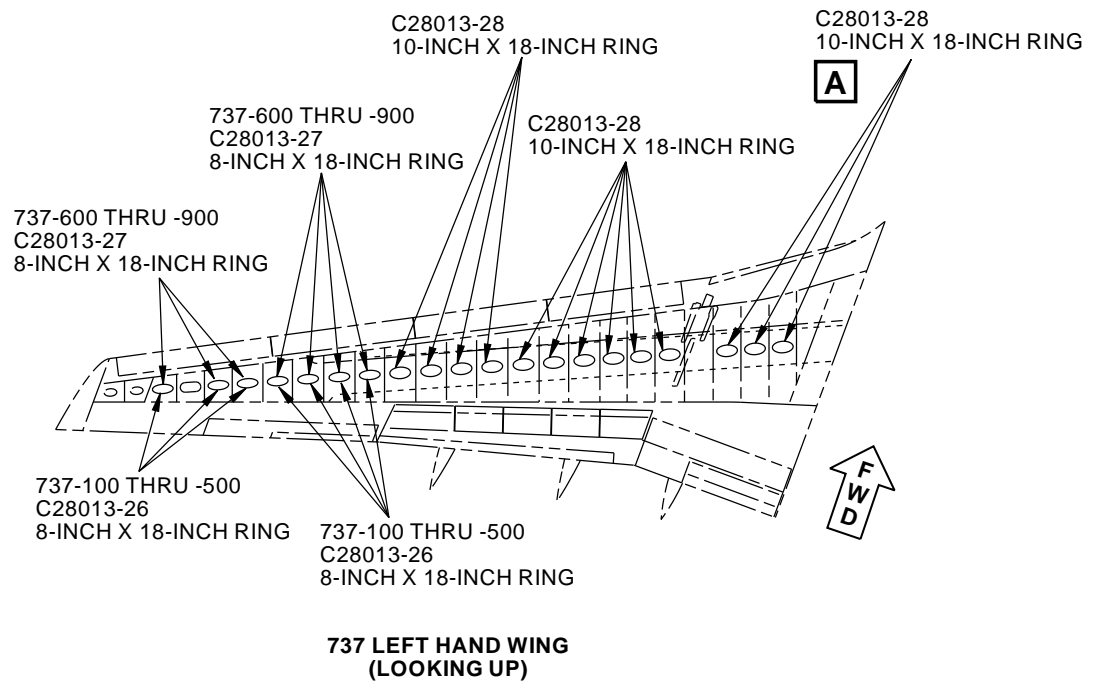
C28013-2		
QUANTITY	NOMENCLATURE	PART NUMBER
14	8-INCH x 18-INCH RING	C28013-26
26	10-INCH x 18-INCH RING	C28013-28
1	STORAGE BOX	

C28013-3		
QUANTITY	NOMENCLATURE	PART NUMBER
14	8-INCH x 18-INCH RING	C28013-27
26	10-INCH x 18-INCH RING	C28013-28
1	STORAGE BOX	

**57-00-02**



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



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**Protective Ring For Lower Wing Panel Access Door  
Figure 1 (Sheet 1 of 2)**

**57-00-02**

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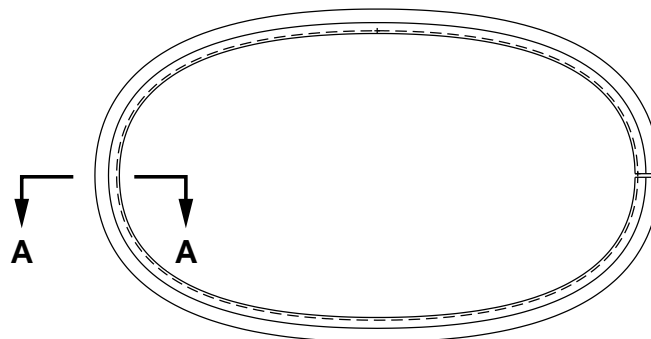
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Page 2  
Aug 05/2015



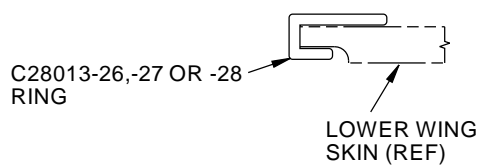


737-600/700/800/900  
ILLUSTRATED TOOL AND EQUIPMENT MANUAL



C28013-28  
10-INCH X 18-INCH RING SHOWN  
C28013-26 AND 27 SIMILAR

A



A-A

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Protective Ring For Lower Wing Panel Access Door  
Figure 1 (Sheet 2 of 2)

57-00-02



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

**PART NUMBER: C32023-1, -12**

**NAME:** WRENCH - TRUNNION SPHERICAL BEARING, MAIN LANDING GEAR

**AIRPLANE MAINTENANCE:** YES

AMM 57-16-01

**COMPONENT MAINTENANCE:** YES

CMM 57-15-01, CMM 57-15-02

**USAGE & DESCRIPTION:** The C32023-1 (option) or C32023-12 (preferred) wrench is used on all 737-600 thru -900 airplanes.

C32023 is used to torque the forward trunnion spherical bearing nut. The bearing nut is torqued on the trunnion housing assembly of the main landing gear installation.

Refer to AMM 57-16-01, CMM 57-15-01, CMM 57-15-02 and the current C32023 drawing for complete usage instructions.

C32023-1 and -12 consist of:

C32023-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SPANNER ASSEMBLY	C32023-2
1	STORAGE BOX	

C32023-12		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SPANNER WRENCH	C32023-14
1	STORAGE BOX	

**WEIGHT:** 1 lb (0.45 kg)

**DIMENSIONS:** 3 x 3 x 8 inches (76 x 76 x 203 mm)

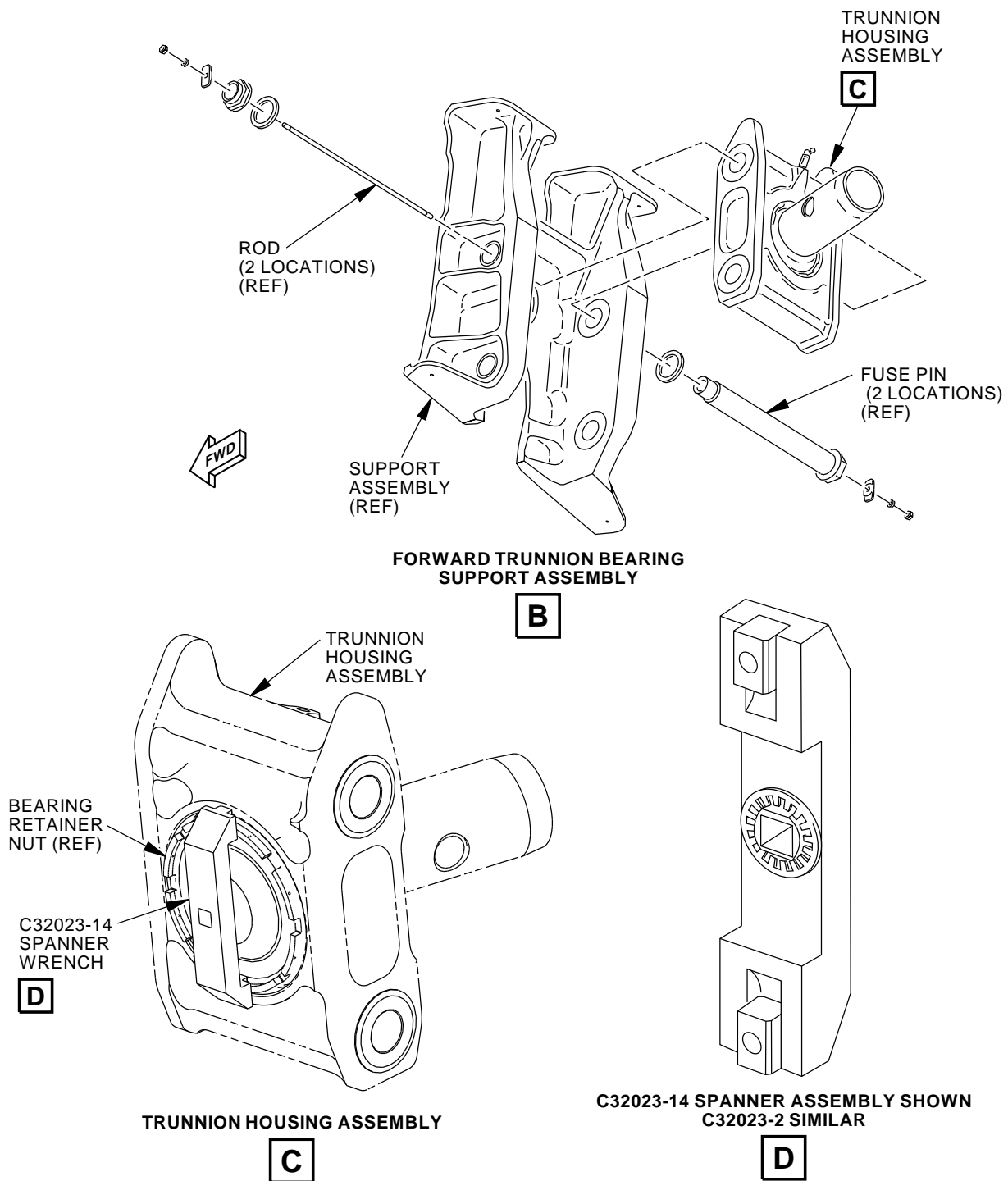
**NOTE:** C32023-12 replaces C32023-1 for future procurement.

**57-10-01**





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



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Main Landing Gear Trunnion Spherical Bearing Wrench  
Figure 1 (Sheet 2 of 2)

57-10-01



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

**PART NUMBER: C57002-15**

**NAME:** SLING EQUIPMENT - REMOVAL/INSTALLATION, WINGLET (CE)

**AIRPLANE MAINTENANCE:** YES

AMM 57-21-21

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The C57002-15 sling equipment is used on 737-700 thru -900 airplanes equipped with winglets.

C57002 is used for removal and installation of the 737 winglets. Refer to the current C57002 tool drawing and AMM 57-21-21 for complete usage instructions.

C57002-15 consists of:

C57002-15		
QUANTITY	NOMENCLATURE	PART NUMBER
1	SLING ASSEMBLY	C57002-2
6	WASHER	C57002-4
6	SCREW	C57002-5
1	STORAGE BOX	

**WEIGHT:** 20 lbs (9 kg)

**DIMENSIONS:** 12 x 12 x 15 inches (305 x 305 x 381 mm)

**NOTE:** C57002-15 supersedes C57002-1.

**DECLARATION OF CONFORMITY:** The design of C57002 meets the requirements of the machinery directive 2006/42/EC including its amendments. For use within the European Union. The manufacture of this equipment must also meet the requirements of that directive, at a minimum for the manufacturer, this entails the retention of a technical file. The labeling of the equipment with the CE mark, and the completion of an EC declaration of conformity.

**OPERATING INSTRUCTIONS:** Refer to the current C57002 and the 737 AMM procedures for detailed instructions on the use of this equipment. This equipment shall only be used in conjunction with Boeing 737 AMM procedures to maintain Boeing 737 airplanes.

**57-20-01**



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

**MAINTENANCE:** General Cleaning: Basic care of the equipment includes cleaning the equipment of dirt, corrosives, or contaminants. Wipe off all surface dirt with a sponge dampened in plain water. Squeeze the sponge dry. Dip the sponge in a mild solution of water and commercial soap or detergent clean and wipe dry with a clean cloth. Hang freely to dry, but away from excessive heat or steam.

Slings, Synthetic: Maintenance and inspection of synthetic shall be performed in accordance with ASME B-30.9, Chapter 9-5 and 9-6.

Swivel Hoist Rings: Maintenance shall be done based on the recommendations made by the hoist ring manufacturer or qualified person.

**PROOF LOAD:** Proof load testing for the C57002 Sling Equipment - Removal/Installation, Winglet shall be performed per the current C57002 drawing proof load diagram(s) (example Figure 2) and:

1. In conjunction with initial fabrication
2. Subsequent to modification of this equipment (equipment shall only be modified in accordance with the GSE drawing)
3. After repair of load carrying components
4. After replacement of load carrying components (except for load carrying components such as shackles and hoist rings that carry their own certification).

On-going integrity/safety of the device to be assured by inspection.

### **INSPECTION:** FREQUENT

General Inspection (before use):

1. Missing fasteners
2. Notes, Cautions and Warnings are legible
3. Usage placards are legible

Slings: General: Prior to use, all new, altered, modified or repaired slings shall be inspected by a designated person to verify compliance with the applicable provisions of ASME B30.9.

Slings, Webbing:

1. Visual inspection for damage shall be performed by the user or other designated person each day or shift the sling is used.
2. Slings shall not be returned to service until approved by a qualified person.
3. A written record of frequent inspections is not required.
4. Conditions detailed below and in EN 1492-1, Section 6, Section Annex B and ASME B-30.9, or conditions that may result in a hazard shall cause the sling to be removed from service.
  - Red warning yarns visible.
  - Acid or caustic burns.

# 57-20-01



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

- Melting or charring of any part of the sling surface.
- Snags, punctures, tears or cuts.
- Broken or worn stitches in load bearing splices.
- Excessive abrasive wear.
- Knots in any part of the sling.
- Discoloration and brittle or stiff areas on any part of the sling.
- Distortion of fittings.
- Missing or illegible sling tag.

Structural and Mechanical Lifting Devices (supporting lifters, spreader bars):

1. Visual Inspection by the operator before and during each lift of the device. Records are not required. Inspect for:
  - Structural deformation, cracks or excessive wear of any parts of the lifting device.
  - Loose or missing guards, fasteners, covers, stops or nameplates.
  - All functional operational mechanisms and automatic hold and release mechanisms for misadjustments interfering with operation.

Swivel Hoist Rings:

1. A visual inspection shall be performed by the user or other designated person each shift before the links, rings, and swivels are used. Semi-permanent and inaccessible locations where frequent inspections are not feasible shall have periodic inspections performed. Specifically check to make sure that:
  - Body can rotate freely on bushing.
  - Bail can swivel freely on shoulder pins.
  - Shoulder pins are secure and undamaged.
1. Conditions as those listed in ASME B30.26, para. 26-4.8.4, or any other condition that may result in a hazard, shall cause the hardware to be removed from service. Links, rings and swivels shall not be returned to service until approved by a qualified person.
2. Written records are not required.

PERIODIC

Slings - General:

1. A complete inspection for damage to the sling shall be periodically performed by a designated person.
2. Each sling and component shall be examined individually, taking care to expose and examine all surfaces.

**57-20-01**



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

3. The sling shall be examined for the conditions noted in the frequent inspection and in ASME B30.9 or any other conditions that may result in a hazard shall cause the sling to be removed from service.
4. Slings shall not be returned to service until approved by a qualified person.
5. A written record of the most recent periodic inspection shall be maintained and shall include the condition of the sling.

Slings, Synthetic: The straps shall be examined for the conditions noted in the frequent inspection and in ASME B-30.9 or any other conditions that may result in a hazard shall cause the sling to be removed from service.

Swivel Hoist Rings:

1. A complete inspection of the links, rings, and swivels shall be performed by a designated person. The hardware shall be examined for conditions such as those listed in ASME B30.26, para. 26-4.8.4 and a determination made as to whether they constitute a hazard.
2. Period inspection interval shall not exceed one year. The frequency of periods inspection should be based on:
  - Frequency of use
  - Severity of service conditions
  - Experience gained on the service life of hardware used in similar circumstances
  - Guidelines for the time intervals are:
    - Normal service - yearly
    - Severe service - monthly to quarterly
    - Special service - as recommended by a qualified person
  - Written records are not required.

Structural and Mechanical Lifting Devices (supporting lifters, spreader bars):

1. A written record of a visual inspection, by a qualified person is required.
2. Inspection is made of external conditions for a continuing evaluation of the following factors:
  - Loose bolts or fasteners.
  - Cracked or worn gears, pulleys, sheaves, sprockets, bearings, chains and belts.
  - Excessive wear of linkages and other mechanical parts.
  - Excessive wear at hoist hooking points and load support clevises or pins.
  - Deficiencies found during the inspection are analyzed and the

# 57-20-01





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

lifting device shall not be used, if deficiencies are determined to be hazardous.

- The lifting device shall not be used until the hazardous deficiencies are corrected.

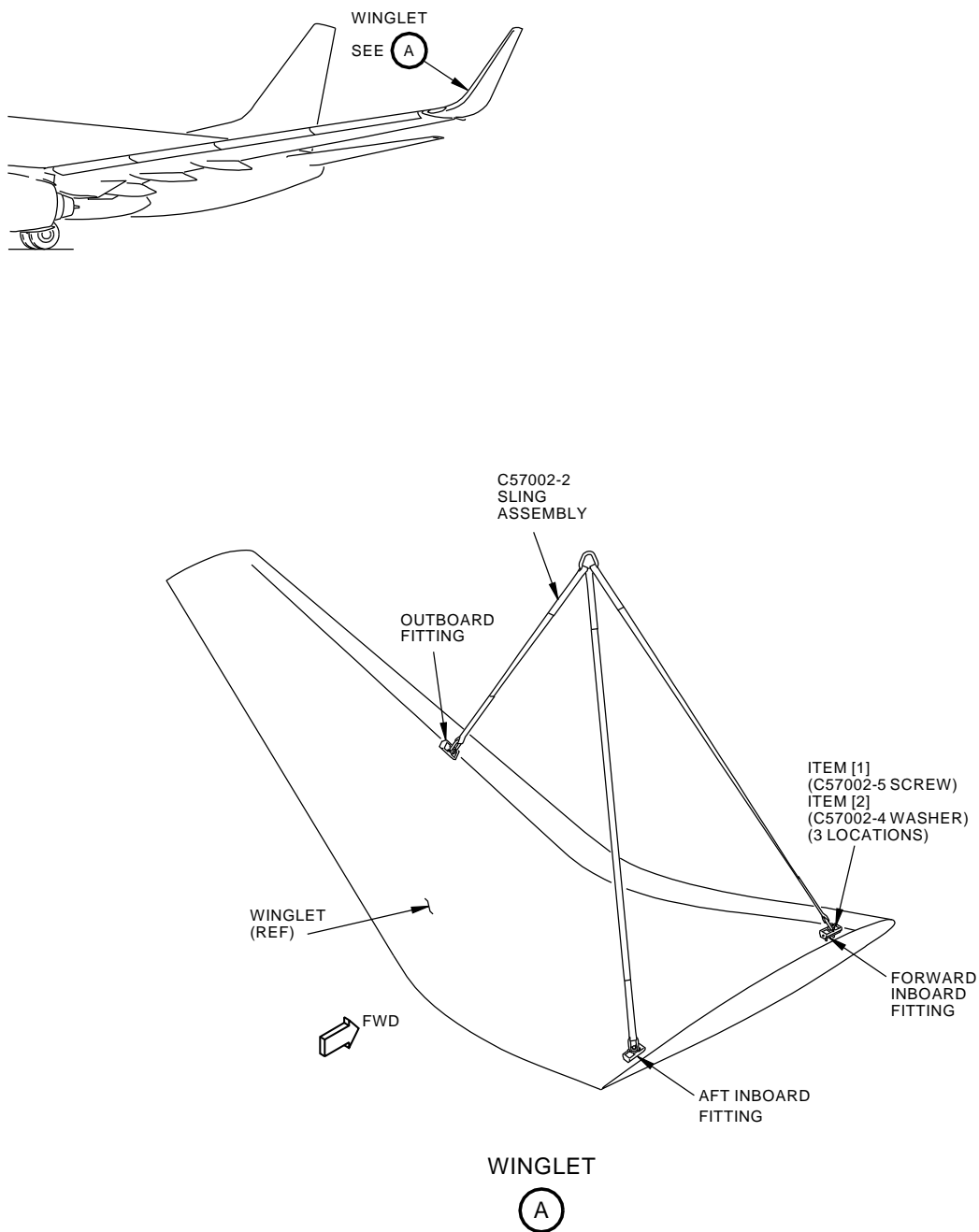
**STORAGE:** C57002 shall be stored clean, dry, free of exposure to fumes or corrosive elements, indoors and in the furnished storage box (if provided).

**DECOMMISSIONING:** C57002 parts and assemblies shall be permanently altered to prevent their unauthorized re-use. Recycling is the preferred manner of disposal for those materials where that option is available.

**57-20-01**



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



M90263 S0006832134\_V3

Winglet Sling Equipment Usage  
Figure 1

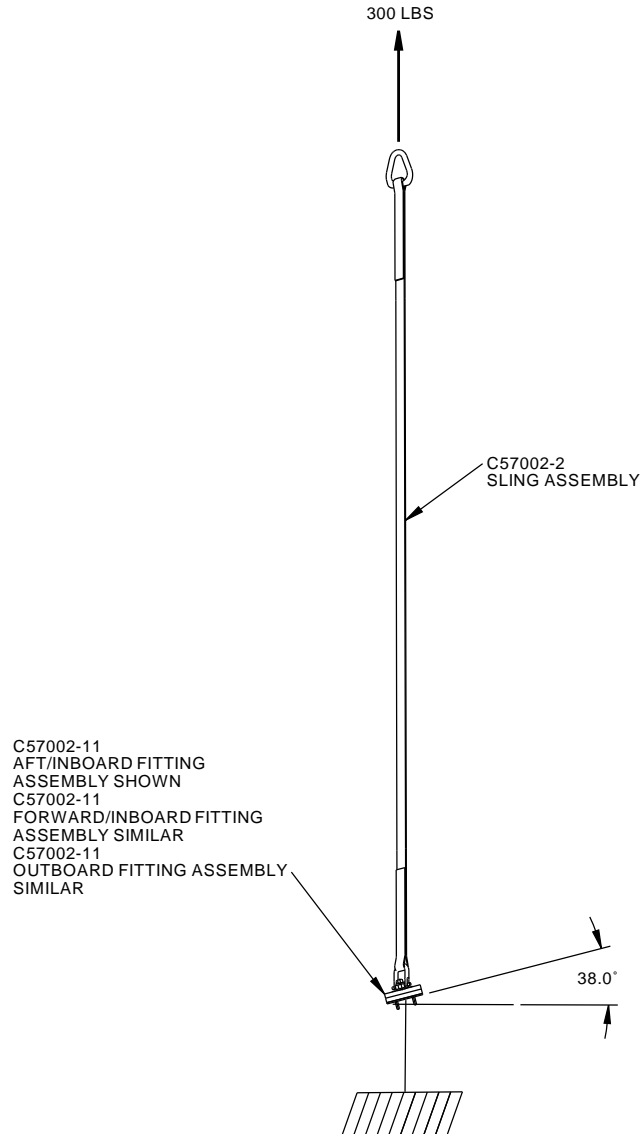
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ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**C57002-2  
PROOF LOAD DIAGRAM  
(EXAMPLE)  
WORKING LOAD IS 150 LBS  
STAMP PROOF LOAD TEST DATE ON  
PROOF LOAD TAG PER DRAWING F70308  
PROOF LOAD IS 2 TIMES WORKING LOAD.  
EACH LEG MUST BE SEPARATELY PROOF LOADED.**

2294880 S0000519986\_V1

**C57002 Proof Load Diagram (Example)  
Figure 2**

**57-20-01**



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

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
[1]	C57002-5	SCREW (1/4-28 UNF-3A X 1.5" LONG, HEX SOCKET HEAD CAP SCREW, ALLOY STEEL, PLATED PER ANSI/ASME B18.3)	- - -
[2]	C57002-4	WASHER (1/4" NARROW, PLAIN WASHER, TYPE B, STEEL, PLATED PER ANSI/ASME B18.22.1)	- - -

**57-20-01**



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

**PART NUMBER: C57003-1**

**NAME:** TEST EQUIPMENT - WING DRY BAY VAPOR SEAL

**AIRPLANE MAINTENANCE:** YES

AMM 57-21-23

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The C57003-1 test equipment is used on all 737 airplanes equipped with winglets, except 737-100 thru -600 airplanes.

C57003 is used in conjunction with a customer-furnished manometer and regulated shop air. C57003 is used to perform a vapor seal test on the wing dry bay between Rib 25 and Rib 26. C57003 tests the integrity of the Rib 26 vapor seal.

Refer to AMM 57-21-23 and the current C57003 drawing for complete usage instructions.

C57003-1 consists of:

C57003-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	EXPAND VENT PLUG ASSEMBLY	C57003-2
1	PRESSURE TEST DOOR ASSEMBLY	C57003-3
1	STORAGE BOX	

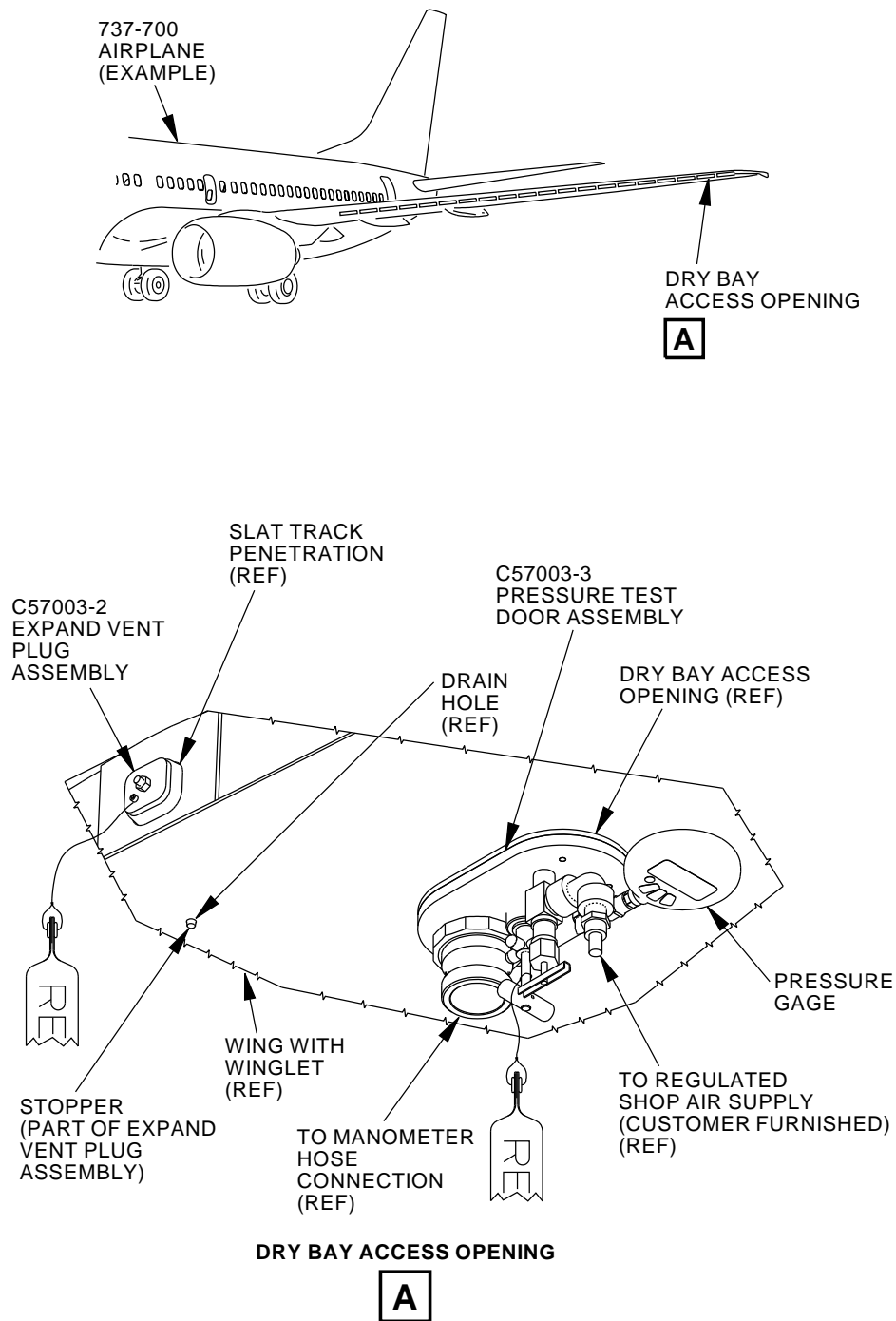
**WEIGHT:** 6 lbs (2.7 kg)

**DIMENSIONS:** 8 x 9 x 16 inches (203 x 229 x 406 mm)

**57-20-02**



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



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Wing Dry Bay Vapor Seal Test Equipment  
Figure 1

57-20-02

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

**PART NUMBER:** J28010-26, -135

**NAME:** CONSOLE EQUIPMENT - SHOP AIR SUPPLY

**AIRPLANE MAINTENANCE:** YES

AMM 28-11-00, AMM 57-21-23

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The J28010-26 (option) or J28010-135 (preferred) console equipment is used on all 737 airplanes.

J28010 is used in conjunction with a customer-furnished C57003 plug assembly, an F72951 water manometer and a dry, filtered, regulated air source to perform fuel tank leak inspections. J28010 transforms 90 to 110 psig shop air to a closely regulated positive pressure, 2.0 to 3.0 +/-0.1 psig.

The design of J28010 meets the requirements of article 3, paragraph 3 of the Pressure Equipment Directive 97/23/EC.

Refer to AMM 28-11-00, AMM 57-21-23 and the current J28010 drawing for complete usage instructions.

J28010-26 and 135 consist of:

J28010-26		
QUANTITY	NOMENCLATURE	PART NUMBER
1	CONSOLE ASSEMBLY	J28010-47
1	HOSE ASSEMBLY 1	J28010-48
1	HOSE ASSEMBLY 2	J28010-49
1	STORAGE BOX	

J28010-135		
QUANTITY	NOMENCLATURE	PART NUMBER
1	CONSOLE ASSEMBLY	J28010-136
1	HOSE ASSEMBLY 1	J28010-48
1	HOSE ASSEMBLY 2	J28010-49
1	STORAGE BOX	

**WEIGHT:** 32 lbs (14.5 kg)

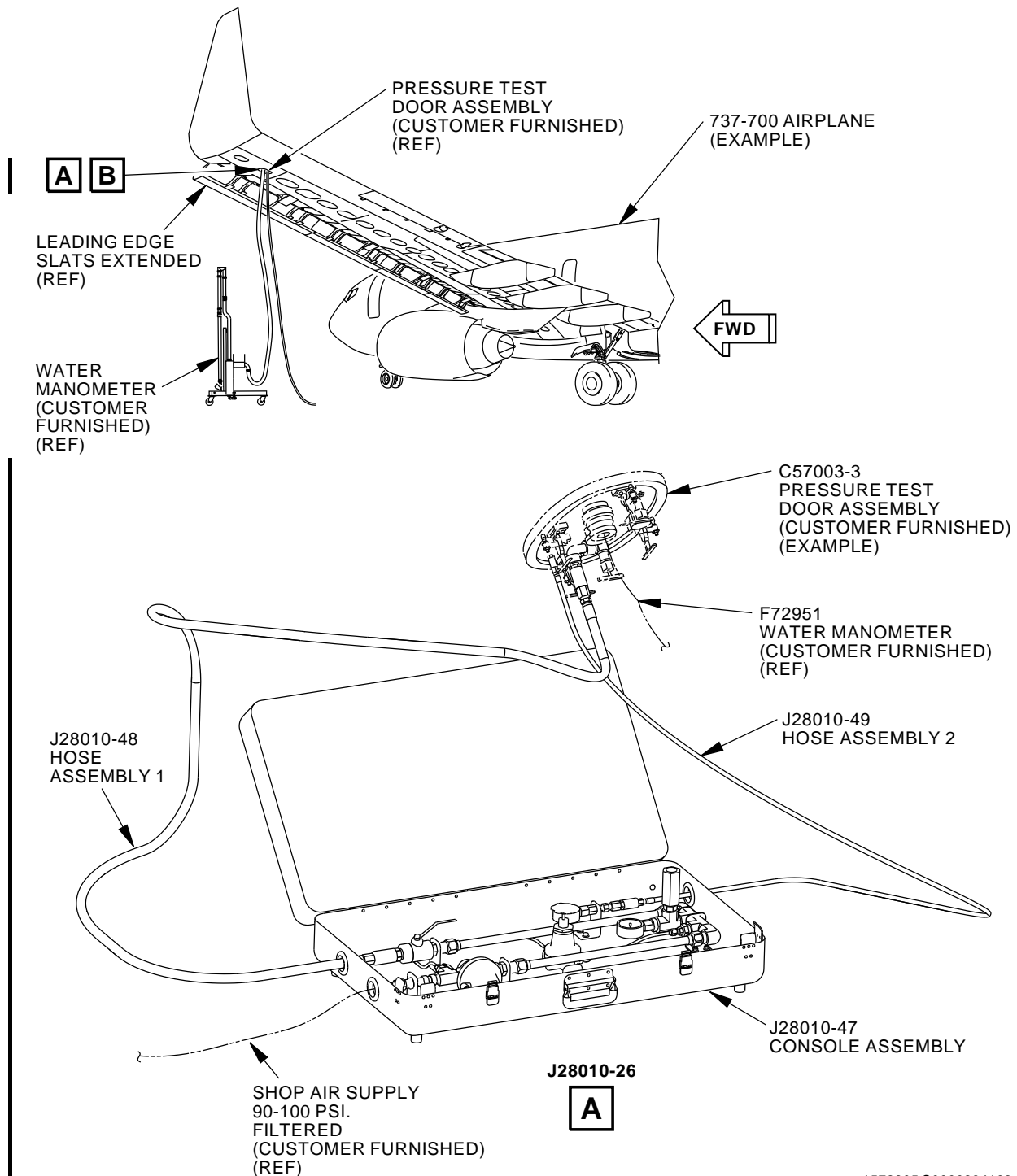
**DIMENSIONS:** J28010-26 - 38 x 23 x 10 inches (965 x 584 x 254 mm)  
J28010-135 - 27 x 22 x 10 inches (686 x 559 x 254 mm)

**NOTE:** J28010-96 replaces J28010-26 for future procurement.  
J28010-135 supersedes J28010-96.

**57-20-03**



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



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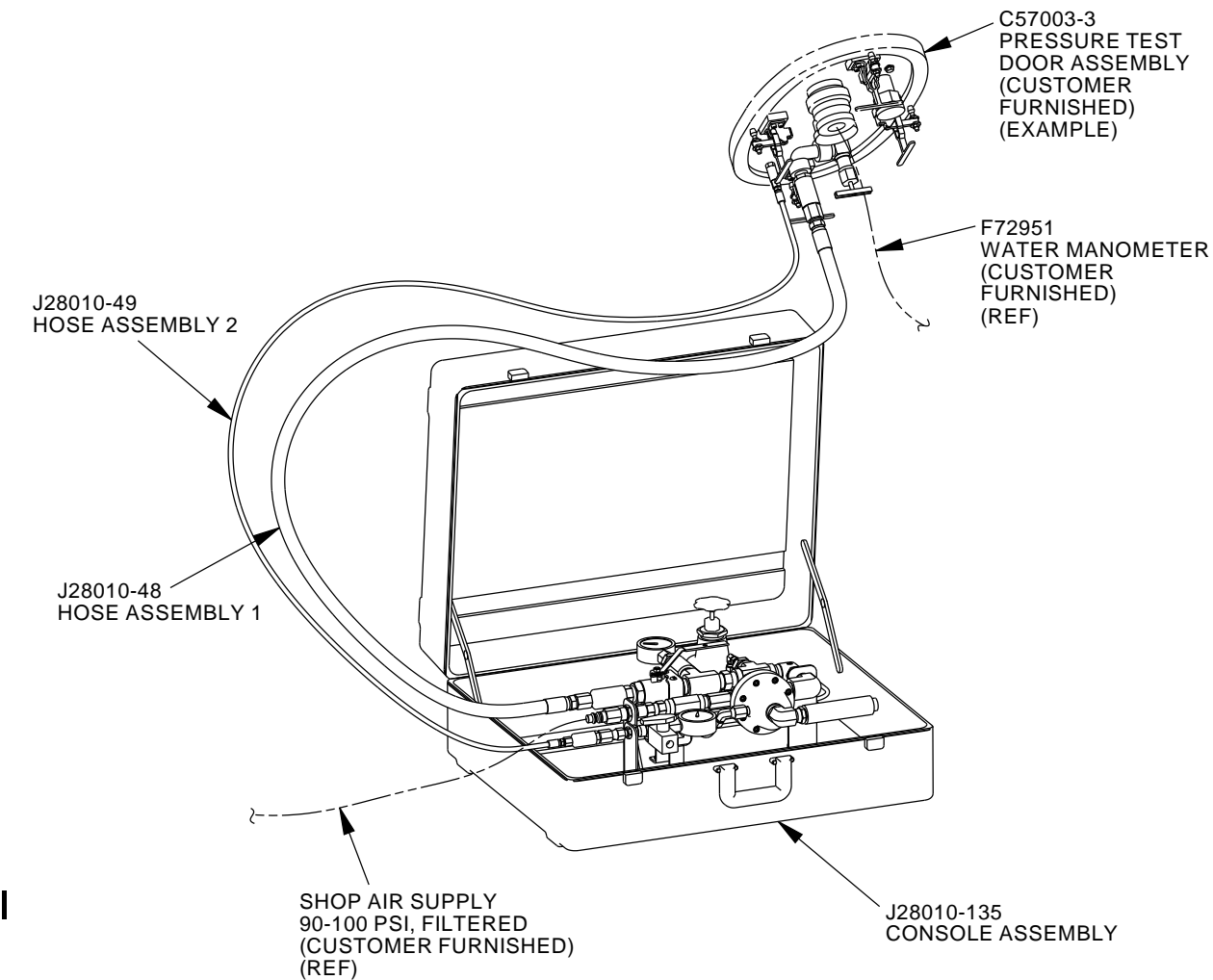
Shop Air Supply Console Equipment  
Figure 1 (Sheet 1 of 2)

57-20-03





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



J28010-135

**B**

2430615 S0000562724\_V2

Shop Air Supply Console Equipment  
Figure 1 (Sheet 2 of 2)

**57-20-03**

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Page 3  
Feb 05/2016



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

**PART NUMBER: G57012-1**

**NAME:** SPOTFACE EQUIPMENT - CORROSION REMOVAL, WING BOX SKINS

**AIRPLANE MAINTENANCE:** NO

**COMPONENT MAINTENANCE:** NO

**OTHER MANUALS:** YES

SRM 57-20-01

**USAGE & DESCRIPTION:** The G57012-1 wing box corrosion removal spotface equipment is used on all 737-100 thru -900 airplanes.

G57012 is used in conjunction with a customer-furnished drive unit for corrosion removal at wing skin fasteners. G57012 consists of a four blade cutter assembly. Also included is a pilot and commercial microstop for depth of cut adjustment. Four spotface cutters of varying diameters and eight pilots of varying length and diameter provide for 32 spotface combinations. G57012 is used for structural repair applications.

Refer to the current G57012 tool drawing and Structural Repair Manual (SRM) 57-20-01 for complete usage instructions.

The G57012-1 wing box corrosion removal spotface equipment consists of:

G57012-1		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PILOT 1/4	G57012-3
1	PILOT 1/4 LONG	G57012-4
1	PILOT 5/16	G57012-5
1	PILOT 5/16 LONG	G57012-6
1	PILOT 3/8	G57012-7
1	PILOT 3/8 LONG	G57012-8
1	PILOT 7/16	G57012-9
1	PILOT 7/16 LONG	G57012-10
1	SPOTFACER 1/4	G57012-11
1	SPOTFACER 5/16	G57012-12
1	SPOTFACER 3/8	G57012-13
1	SPOTFACER 7/16	G57012-14
4	SET SCREW	G57012-15
1	MICRO STOP	G57012-16
1	STORAGE BOX	

**WEIGHT:** 3 lbs (1.4 kg)

**57-20-04**



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

**DIMENSIONS:** 3 x 7 x 9 inches (76 x 178 x 229 mm)

**NOTE:** G57012 replaces 150MIT65B0012 for future procurement.

**57-20-04**

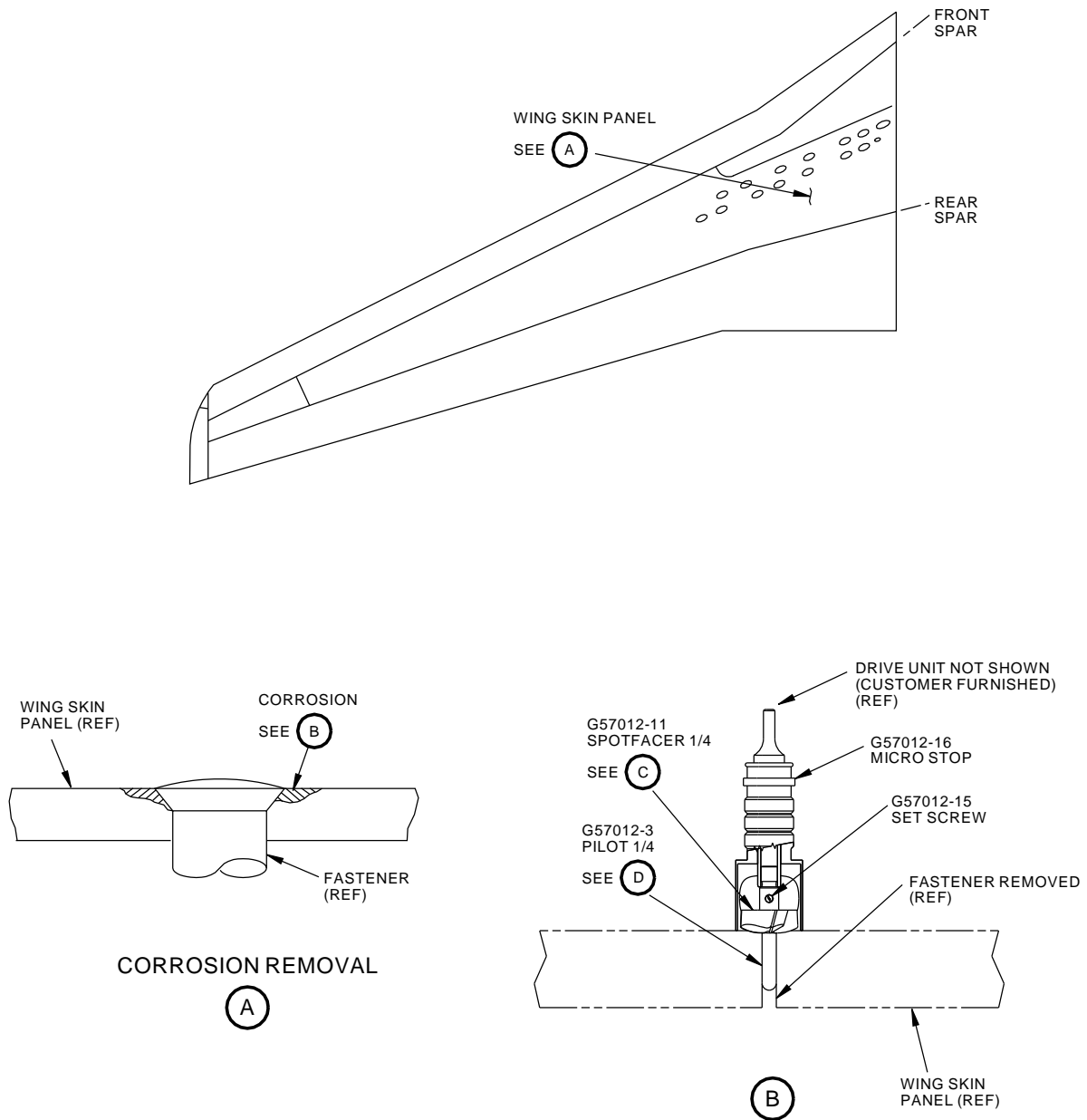
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Page 2  
Aug 05/2014



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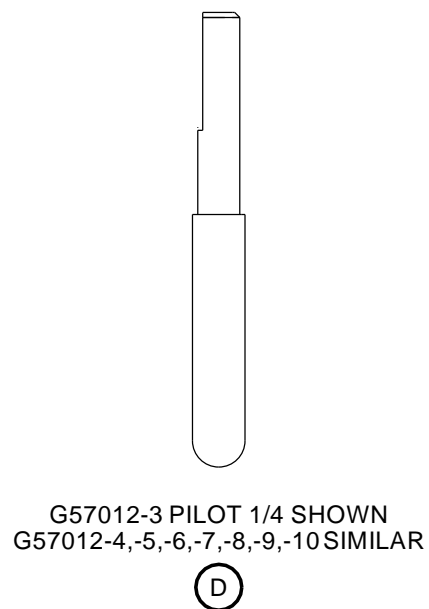
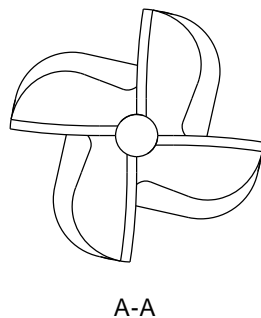
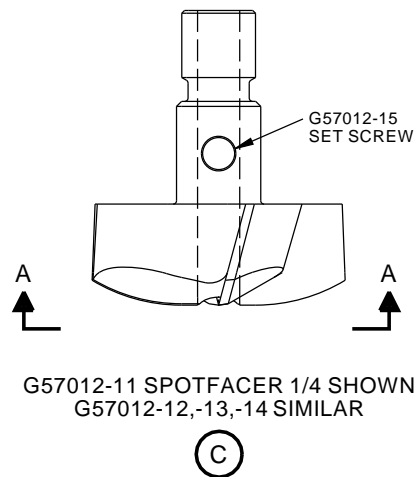
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Wing Box Corrosion Removal Spotface Equipment  
Figure 1 (Sheet 1 of 2)

57-20-04



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Wing Box Corrosion Removal Spotface Equipment  
Figure 1 (Sheet 2 of 2)

57-20-04