

**CHAPTER**

**12**

**SERVICING**



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

### CHAPTER 12 SERVICING

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## **ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A12006-1**

**NAME:** LADDER - ACCESS DOOR, E/E BAY

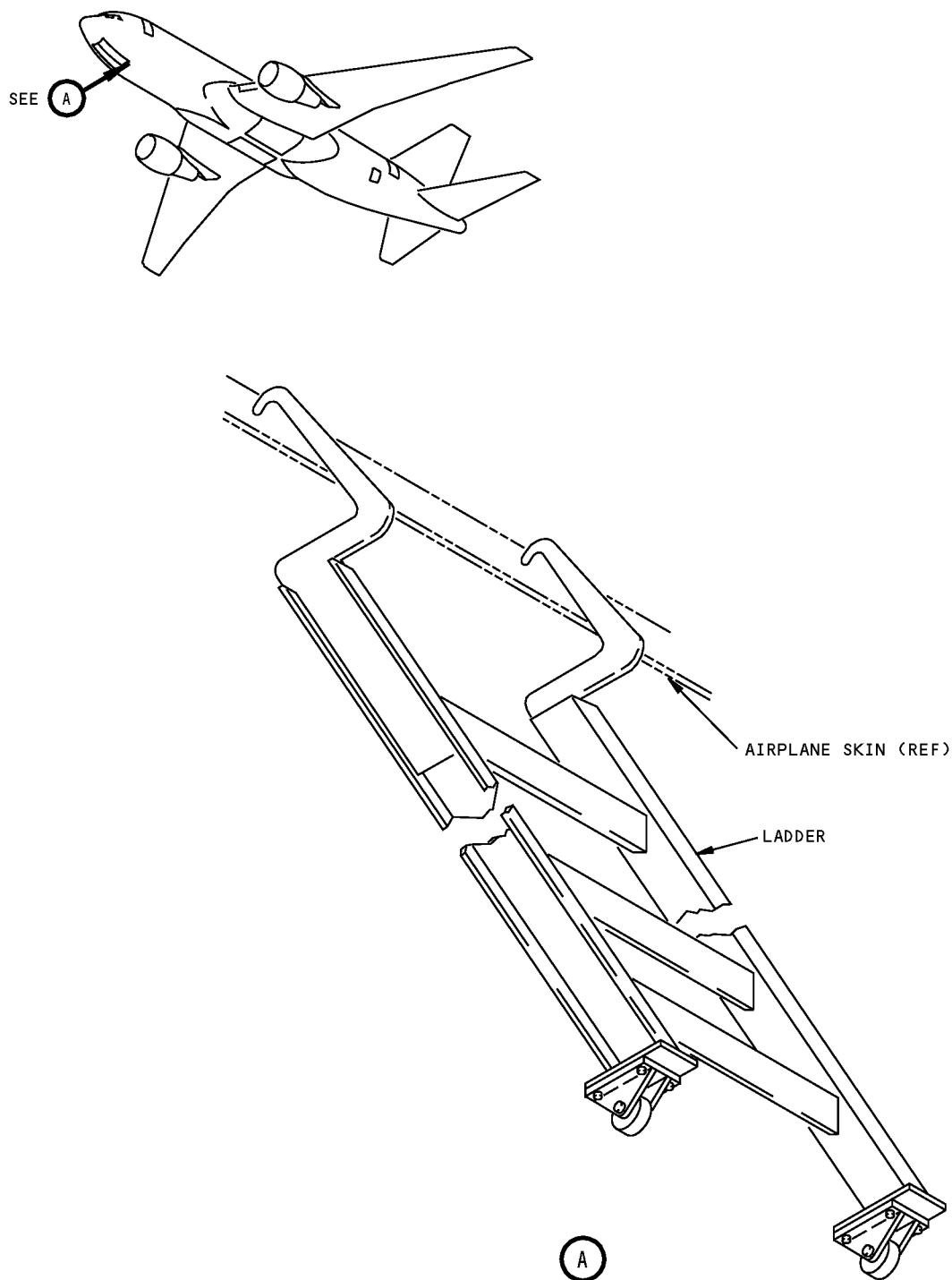
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** This tool is used as a ladder for the access doorway of the E/E bay.

**DIMENSIONS:** 3 x 15 x 96 inches (76 x 381 x 2438 mm)

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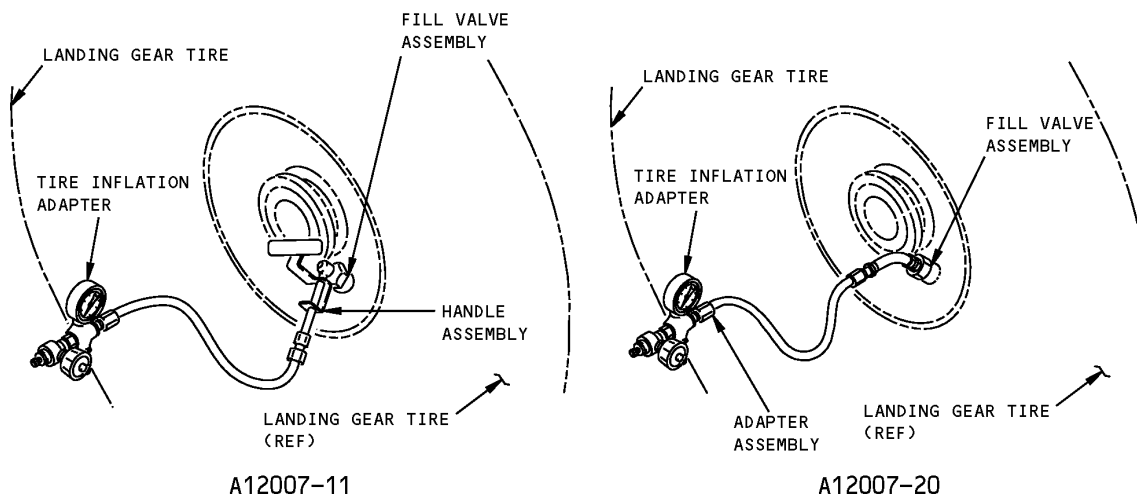
**E/E Bay Access Door Ladder**  
**Figure 1**



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<b>I</b>	<b>PART NUMBER:</b> <u>A12007-11, -20, -23,</u>
<b>NAME:</b>	ADAPTER - TIRE INFLATION
<b>AIRPLANE MAINTENANCE:</b>	YES
<b>COMPONENT MAINTENANCE:</b>	NO
<b>USAGE &amp; DESCRIPTION:</b>	<p>A12007-11, -20 or -23 adapter is used to inflate the landing gear tires on 767 airplanes.</p> <p>The A12007-11 or -23 (preferred) is used on all 767-200 and -300 airplanes and on the nose landing gear tires on 767-400 airplanes. A12007-11 or -23 is used on airplanes with or without TPIS (Tire Pressure Indicating System).</p> <p>The A12007-20 is used on 767-200 and -300 airplanes without TPIS. The A12007-20 may also be used on 767- 400 Nose Landing Gear without TPIS.</p> <p>Refer to AMM 12-15-03, AMM 32-45-01, AMM 32-45-02 and the current A12007 drawing for complete usage instructions.</p> <p>A12007-11 consists of an A12007-12 adapter assembly contained in a storage box.</p> <p>A12007-20 consists of an A12007-21 adapter assembly contained in a storage box.</p> <p>A12007-23 consists of an A12007-24 adapter assembly contained in a storage box.</p>
<b>WEIGHT:</b>	3 lbs (1.4 kg)
<b>DIMENSIONS:</b>	6 x 8 x 21 inches (152 x 203 x 533 mm)
<b>I</b> <b><u>NOTE:</u></b>	A12007-23 replaces A12007-11 for future procurement.

**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Tire Inflation Adapter  
Figure 1**



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## **ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: F70200-14**

**NAME:** INFLATION TOOL - STRUT

**AIRPLANE MAINTENANCE:** YES

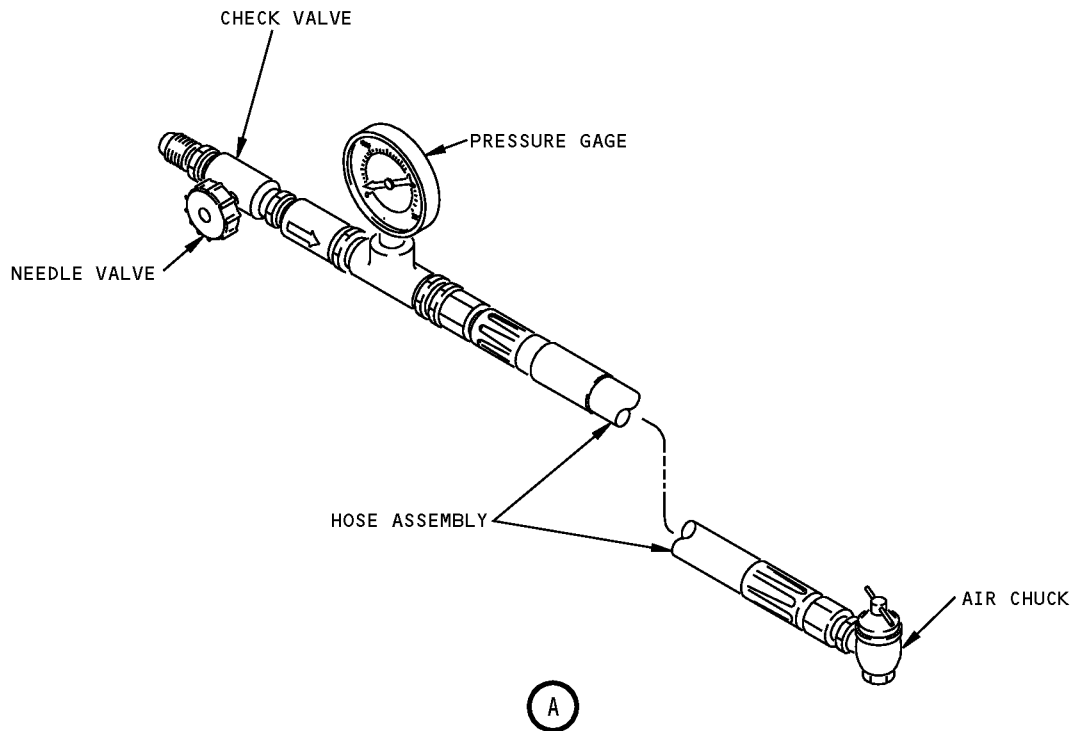
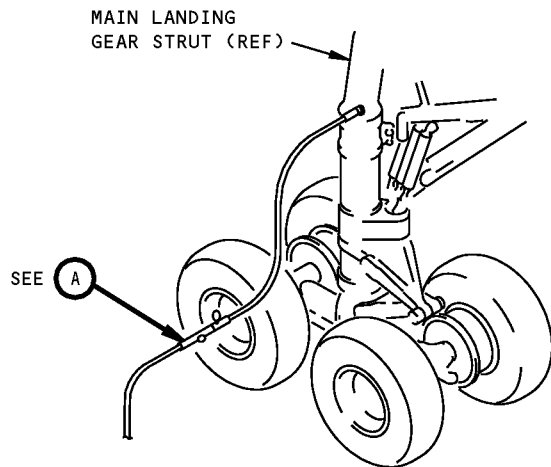
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** This tool is used to inflate the landing gear struts. The tool consists of a needle valve, a pressure gage, an air chuck, a hose assembly, a check valve and related tube fittings.

**DIMENSIONS:** 2 x 12 x 18 inches (51 x 305 x 457 mm)



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**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**



**Strut Inflation Tool**  
**Figure 1**

# ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A32066-1**

**NAME:** DRAIN EQUIPMENT - SHOCK STRUT, MLG/NLG

**AIRPLANE MAINTENANCE:** YES

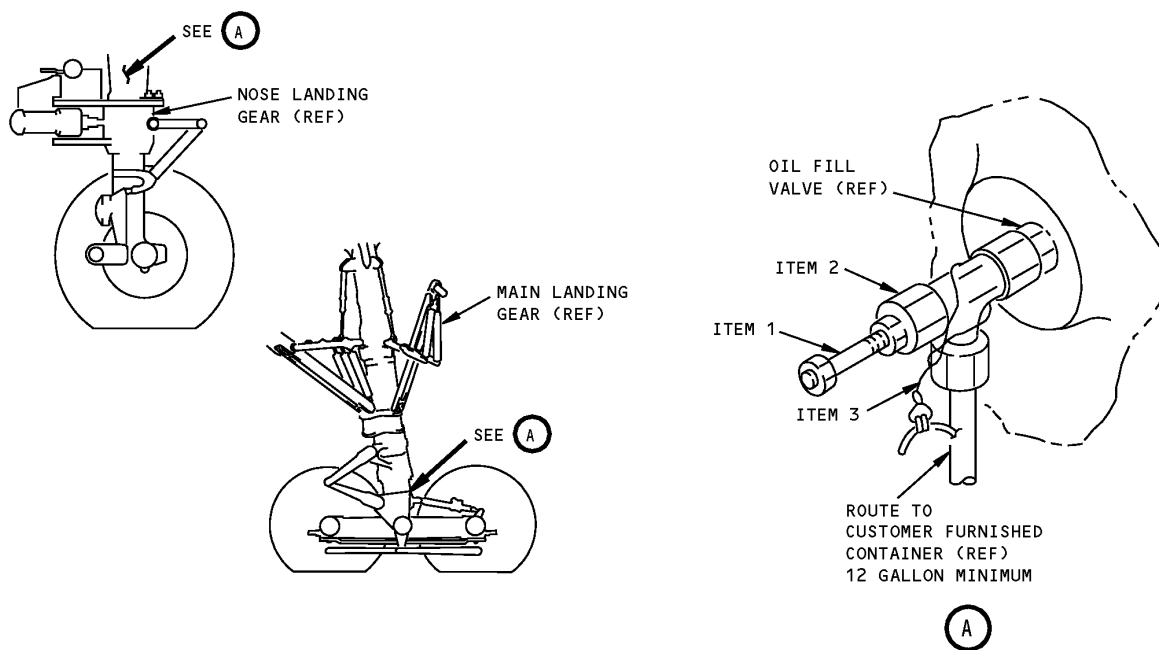
**COMPONENT MAINTENANCE:** YES

**USAGE & DESCRIPTION:** The A32066-1 is used to hold the oil fill valve open in order to drain oil from the main or nose landing gear. This tool is used only on a completely depressurized gear. Refer to AMM 12-15-00 for complete usage instructions. The A32066-1 consists of a T-shaped drain valve, an adjusting rod and tubing. The tool inserts into the oil fill valve to drain the oil from the main or nose landing gear.

**WEIGHT:** 1 lb (0.5 kg)

**DIMENSIONS:** 3.5 x 3.5 x 4 inches (89 x 89 x 102 mm)

**NOTE:** J32060-1 replaces A32066-1 for future procurement.



**Main and Nose Landing Gear Shock Strut Drain Equipment  
Figure 1**



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	-2	ROD	
2	-3	CAP	V45681
3	CL-41-KA-8.0	LANYARD	V99862



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: F70199-13, -17, -19, -20**

**NAME:** INFLATION TOOL - TIRE

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** This tool is used to inflate the main landing gear tires to a specified pressure. This tool is used on 767-400 airplanes. The -13 and -19 are used for the large valve T and RA core C-2 (0.482-26 THD). The -17 and -20 are used for a small valve T and RA core C-4 (0.302-32 THD). Refer to AMM 12-15-03 for further usage instructions. This tool consists of the following:

F70199-13		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PRESSURE GAUGE	F70199-2
1	NEEDLE VALVE	F70199-16
1	HOSE ASSEMBLY	F70199-5
1	AIR CHUCK	F70199-12 <sup>*[1]</sup>
1	AIR CHUCK	4660A <sup>*[1]</sup>
1	RELIEF VALVE <sup>*[2]</sup>	559B-2M-255 <sup>*[3]</sup>
1	RELIEF VALVE <sup>*[2]</sup>	532B-2M-255 <sup>*[3]</sup>

<sup>\*[1]</sup> 4660A AIR CHUCK IS OPTIONAL TO F70199-12.

<sup>\*[2]</sup> THE NORMAL SETTING IS 255 PSI. IF REQUIRED, ADJUST VALVE TO RELIEVE AT 235-275 PSI. VALVE MUST RESEAL AT NO LESS THAN 210 PSI.

<sup>\*[3]</sup> 532B-2M-255 RELIEF VALVE IS OPTIONAL TO 559B-2M-255.

F70199-17		
QUANTITY	NOMENCLATURE	PART NUMBER
1	PRESSURE GAUGE	F70199-2
1	NEEDLE VALVE	F70199-16
1	HOSE ASSEMBLY	F70199-5
1	AIR CHUCK	F70199-6
1	RELIEF VALVE <sup>*[1]</sup>	559B-2M-255 <sup>*[2]</sup>
1	RELIEF VALVE <sup>*[1]</sup>	532B-2M-255 <sup>*[2]</sup>

<sup>\*[1]</sup> THE NORMAL SETTING IS 255 PSI. IF REQUIRED, ADJUST VALVE TO RELIEVE AT 235-275 PSI. VALVE MUST RESEAL AT NO LESS THAN 210 PSI.

<sup>\*[2]</sup> 532B-2M-255 RELIEF VALVE IS OPTIONAL TO 559B-2M-255.



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**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

<b>F70199-19</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	PRESSURE GAUGE	F70199-2
1	NEEDLE VALVE	F70199-16
1	HOSE ASSEMBLY	F70199-5
1	AIR CHUCK	F70199-12 <sup>*[1]</sup>
1	AIR CHUCK	4660A <sup>*[1]</sup>
1	RELIEF VALVE <sup>*[2]</sup>	559B-2M-270 <sup>*[3]</sup>
1	RELIEF VALVE <sup>*[2]</sup>	532B-2M-270 <sup>*[3]</sup>

<sup>\*[1]</sup> 4660A AIR CHUCK IS OPTIONAL TO F70199-12.

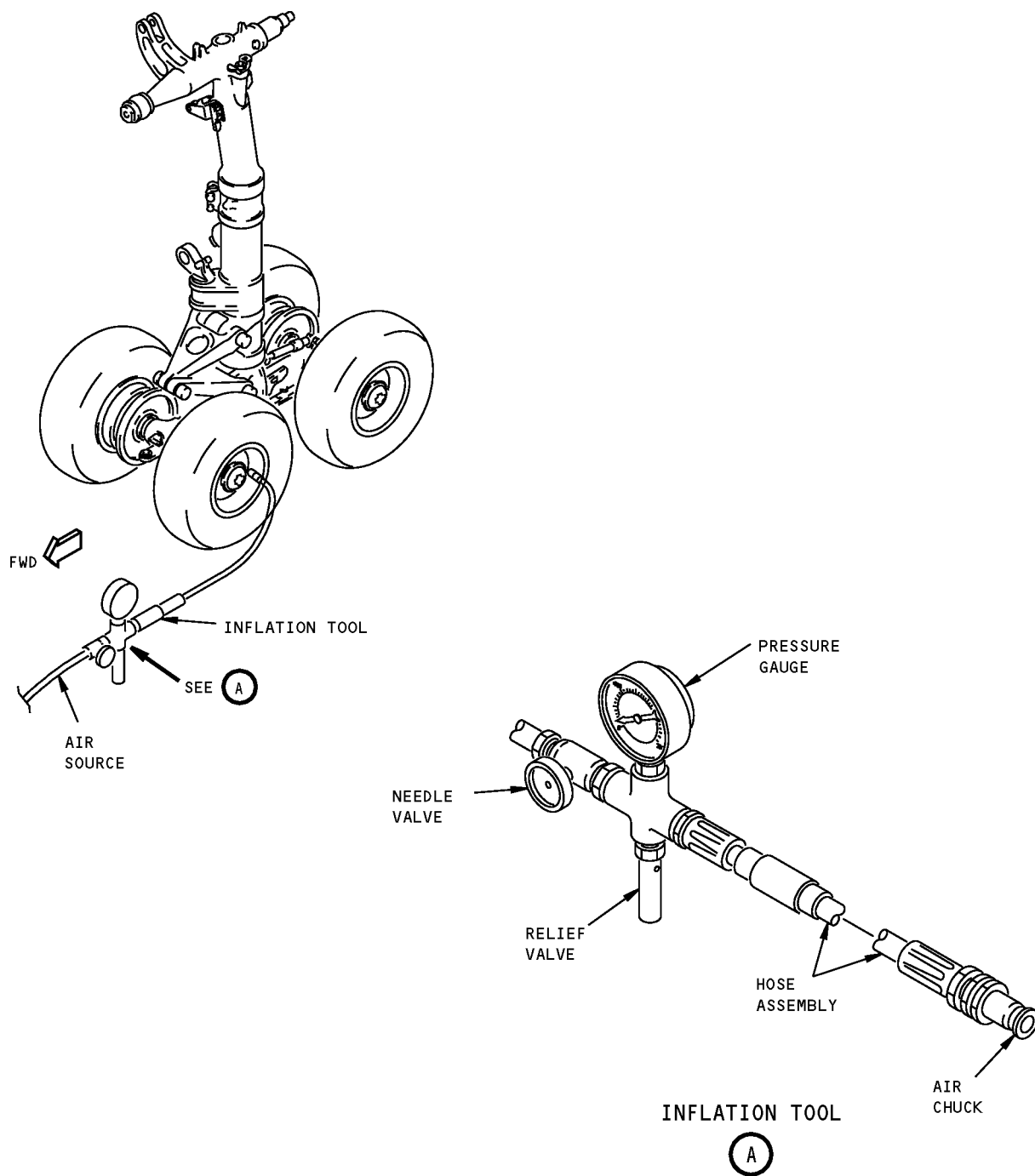
<sup>\*[2]</sup> THE NORMAL SETTING IS 270 PSI. IF REQUIRED, ADJUST VALVE TO RELIEVE AT 250-290 PSI. VALVE MUST RESEAL AT NO LESS THAN 220 PSI.

<sup>\*[3]</sup> 532B-2M-270 IS OPTIONAL TO 559B-2M-270.

<b>F70199-20</b>		
<b>QUANTITY</b>	<b>NOMENCLATURE</b>	<b>PART NUMBER</b>
1	PRESSURE GAUGE	F70199-2
1	NEEDLE VALVE	F70199-16
1	HOSE ASSEMBLY	F70199-5
1	AIR CHUCK	F70199-6
1	RELIEF VALVE <sup>*[1]</sup>	559B-2M-270 <sup>*[2]</sup>
1	RELIEF VALVE <sup>*[1]</sup>	532B-2M-270 <sup>*[2]</sup>

<sup>\*[1]</sup> THE NORMAL SETTING IS 270 PSI. IF REQUIRED, ADJUST VALVE TO RELIEVE AT 250-290 PSI. VALVE MUST RESEAL AT NO LESS THAN 220 PSI.

<sup>\*[2]</sup> 532B-2M-270 IS OPTIONAL TO 559B-2M-270.



**Tire Inflation Tool  
Figure 1**



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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A28008-1, -8**

**NAME:** DRAIN HOSE - SUMP VALVE, CENTER AUXILIARY FUEL TANKS

**AIRPLANE MAINTENANCE:** YES

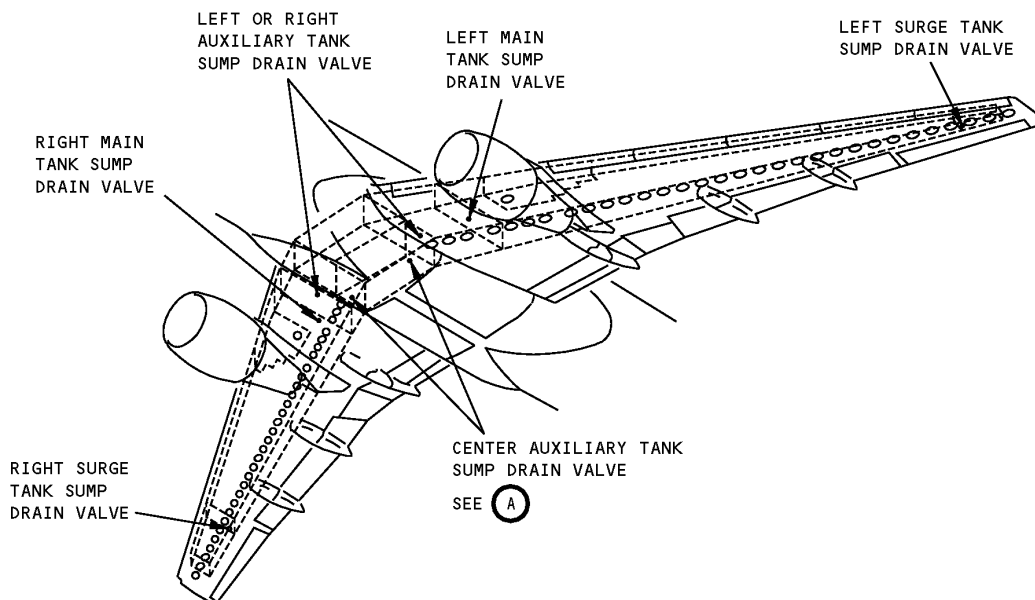
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** A28008-1 or -8 is used on 767-200ER,-300ER,-300F,-400ER airplanes. A28008-1 is used to drain the left and right sumps of the center auxiliary fuel tank. Refer to AMM 12-11-03 and current A28008 drawing for additional usage instructions. A28008-1 consists of a -2 hose assembly contained in a storage box. A28008-8 consists of a -9 hose assembly contained in a storage box. The difference between the -9 hose assembly and the -2 hose assembly is the -9 hose assembly does not have the quick disconnect (5600-8-10S) and nipple (1/2 x 1/2 FF-S) of the -2 drain hose. The -8 drain hose is a non-detachable assembly.

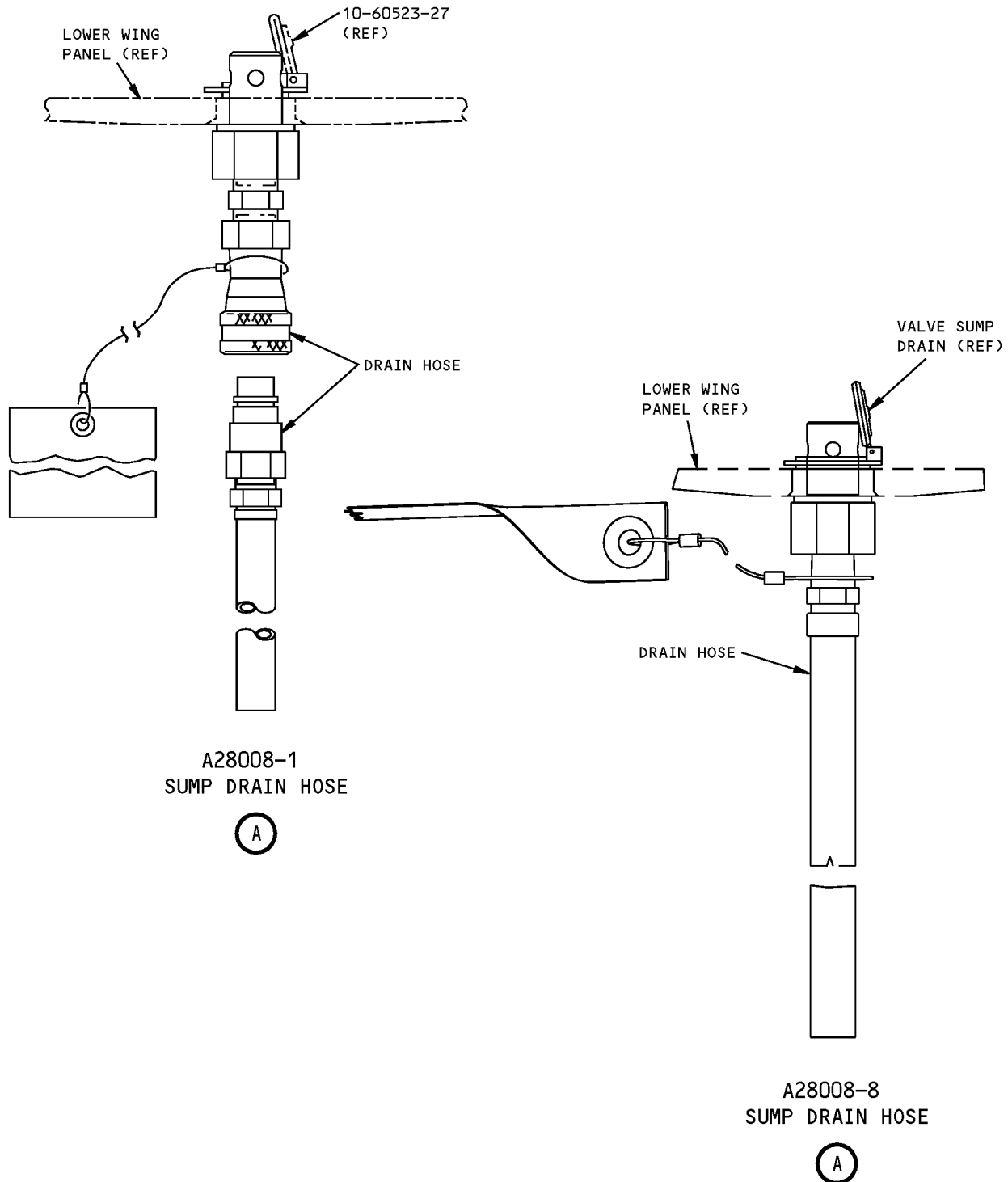
**WEIGHT:** A28008-1 - 3 lbs (1.4 kg)  
A28008-8 - 2 lbs (1 kg)

**DIMENSIONS:** 2 x 6 x 18 inches (51 x 152 x 457 mm)

**NOTE:** A28008-8 replaces A28008-1 for future procurement.



**Center Auxiliary Fuel Tank Sump Valve Location  
Figure 1**



**Center Auxiliary Fuel Tank Sump Valve Drain Hose  
Figure 2**





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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A12001-1, -14**

**NAME:** FUEL SAMPLING EQUIPMENT

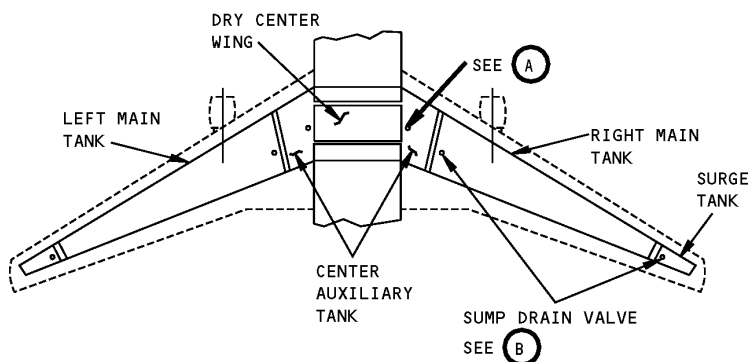
**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** This tool is used to check the center auxiliary and main fuel tanks and the surge tank sumps for impurities. The probe assembly inserts into the valve and releases the fuel sample into the beaker assembly.

**DIMENSIONS:** 8 x 8 x 25 inches (203 x 203 x 635 mm)

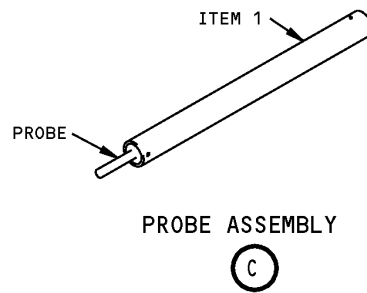
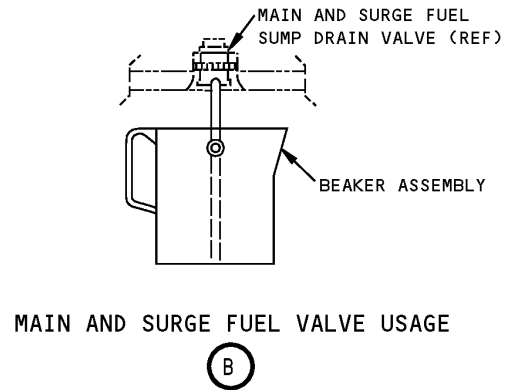
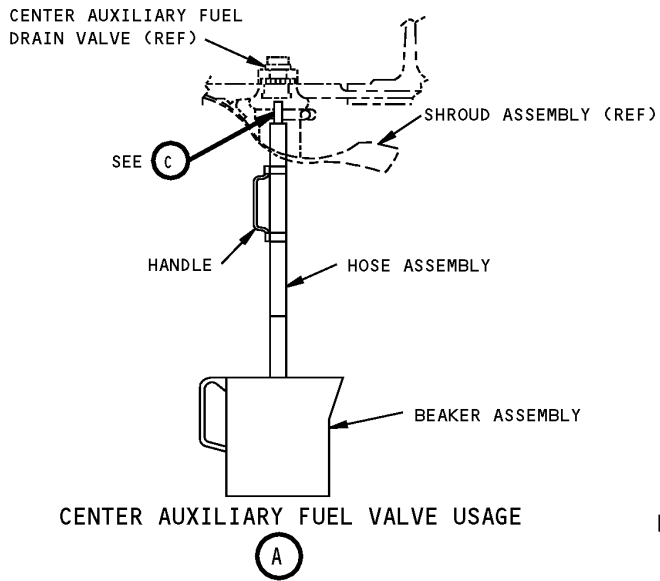
**NOTE:** A12001-14 replaces A12001-1 for future procurement.



**Center Auxiliary and Main Fuel Tanks Location  
Figure 1**

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## ILLUSTRATED TOOL AND EQUIPMENT MANUAL



Fuel Sampling Equipment  
Figure 2

REPAIRABLE/REPLACEABLE PARTS			
ITEM NO.	PART NO.	NOMENCLATURE	VENDOR CODE
1	-7	TUBE	



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## **ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A12005-1**

**NAME:** LUBRICATION ADAPTER - ATTACH FITTING, WING/NACELLE

**AIRPLANE MAINTENANCE:** YES

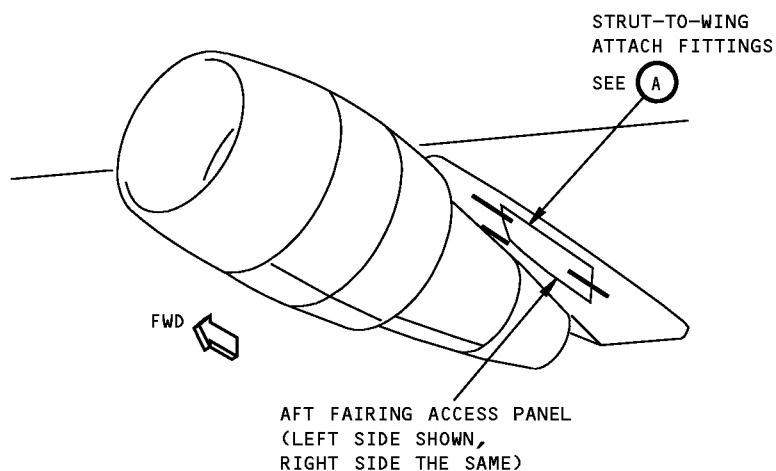
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** The A12005-1 lubrication adapter is used on all 767 airplanes. The adapter is used to lubricate attach fittings on the wing nacelles. The tool is attached to the end of a grease gun flex hose. Refer to AMM 12-21-32 and current A12005 drawing for further usage information. The A12005-1 consists of an A12005-2 adapter assembly and a storage box.

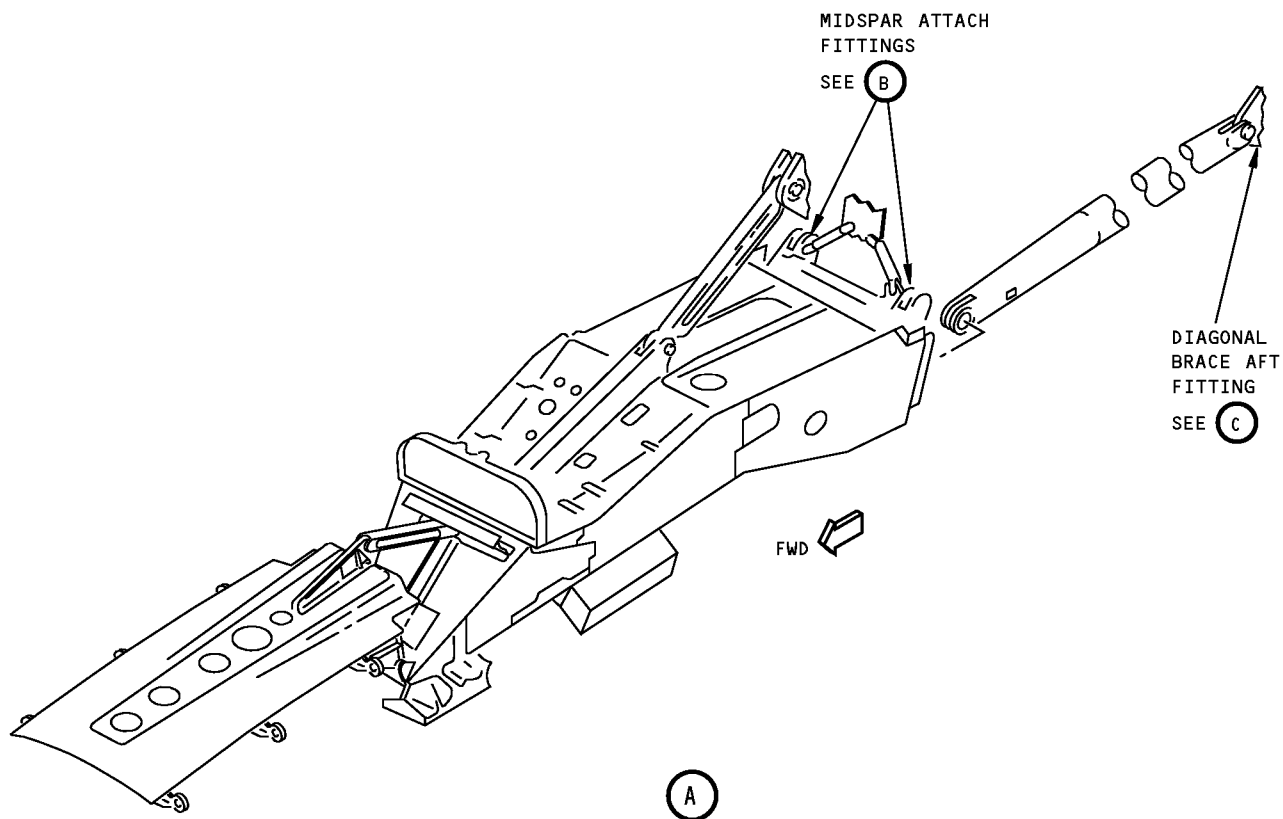
**WEIGHT:** 1 lb (.45 kg)

**DIMENSIONS:** 14 x 5 x 1 inches (356 x 127 x 25 mm)

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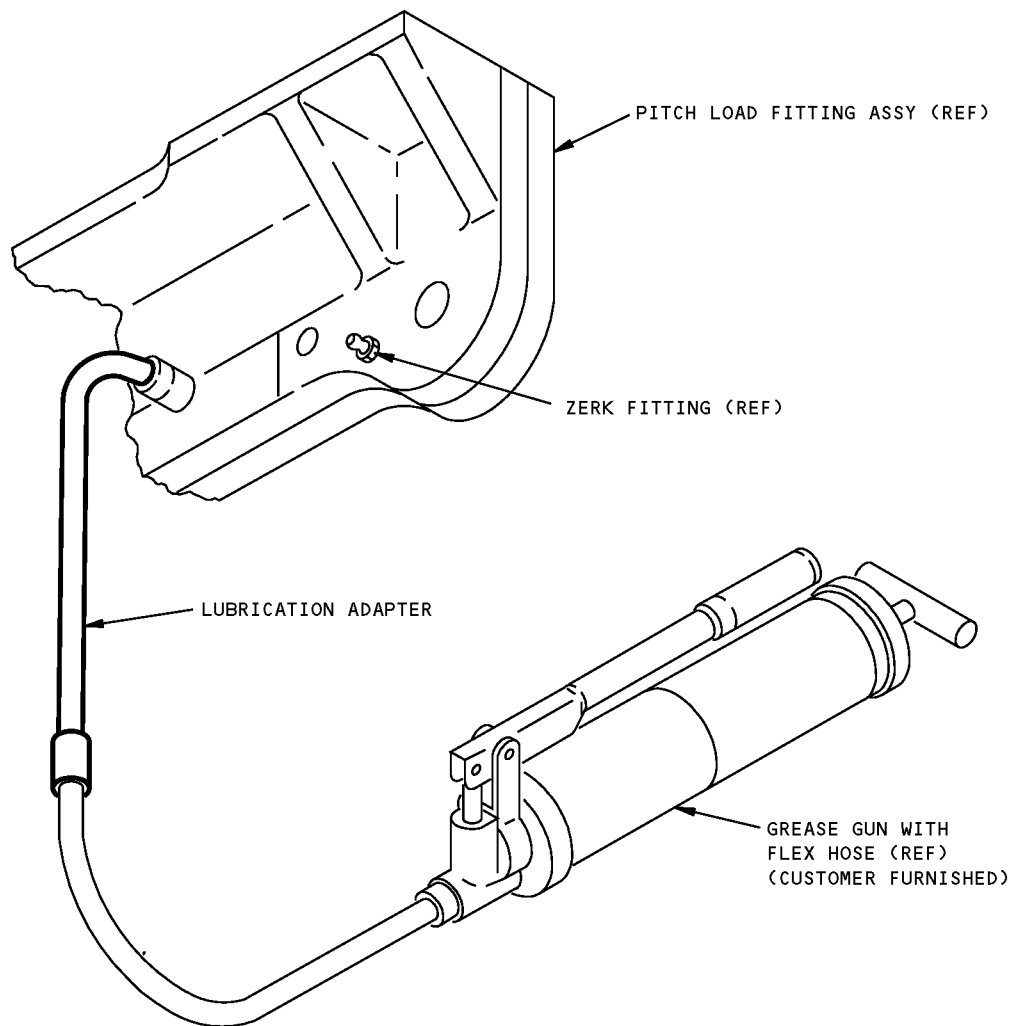


**NO. 1 ENGINE**



**Wing/Nacelle Attach Fitting Lubrication Adapter Usage Location**  
**Figure 1**

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**Wing/Nacelle Attach Fitting Lubrication Adapter**  
**Figure 2**



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**ILLUSTRATED TOOL AND EQUIPMENT MANUAL**

**PART NUMBER: A12004-40**

**NAME:** PLATFORM - ACCESS, MLG WHEEL WELL

**AIRPLANE MAINTENANCE:** YES

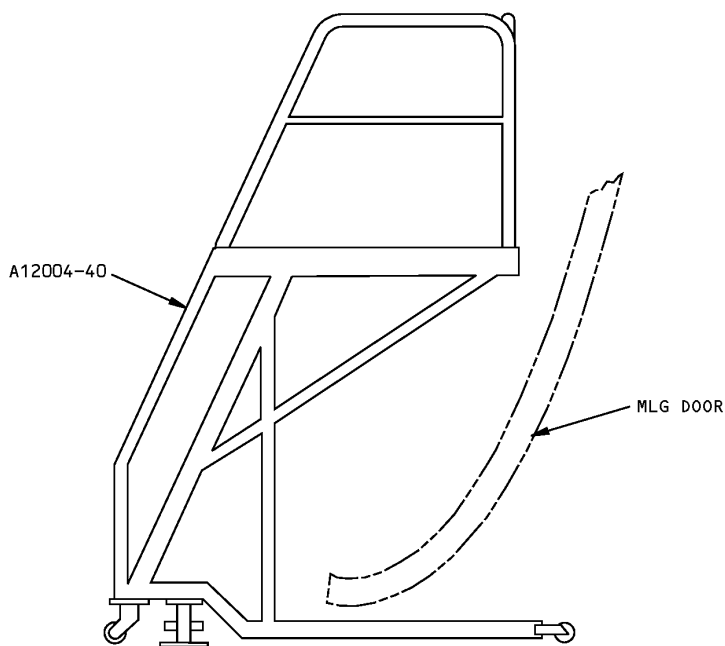
**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** This tool is used to gain access to equipment in the MLG wheel well.

**WEIGHT:** 850 lbs (386 kg)

**DIMENSIONS:** 39 x 78 x 124 inches (991 x 1981 x 3150 mm)

**NOTE:** A12004-40 supersedes A12004-1



**MLG Wheel Well Access Platform**  
**Figure 1**

## ILLUSTRATED TOOL AND EQUIPMENT MANUAL

**PART NUMBER: A12008-1**

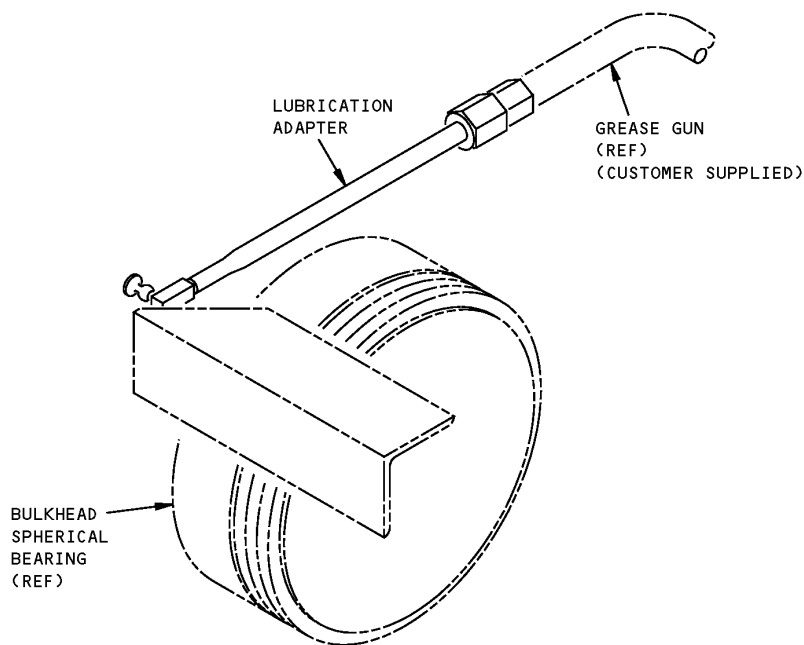
**NAME:** LUBRICATION ADAPTER - AFT WHEEL WELL BULKHEAD, SPHERICAL BEARING

**AIRPLANE MAINTENANCE:** YES

**COMPONENT MAINTENANCE:** NO

**USAGE & DESCRIPTION:** This tool is used for lubrication of the spherical bearing from the top of the wing with fairing panel removed. Refer to AMM 12-21-17 for complete usage instruction. This tool consists of a lubrication assembly and a storage box assembly.

**DIMENSIONS:** 1 x 1 x 8 inches (25 x 25 x 203 mm)



**Spherical Bearing Lubrication Adapter - Aft Wheel Well Bulkhead**  
**Figure 1**