

ATA AIRLINES, INC.

RESTORE APU FUEL SHUTOFF VALVE ACTUATOR

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CHECK BEING PERFORMED: Custom

ZONES: 133 211 212
A/C NUMBER:
REV. DATE: 06/09/06
FREQUENCY: A/R

W/C NUMBER: 317R4901 DATE:

MFR P/N	DESCRIPTION	QTY
MIL-PRF-81322	Grease, Aircraft, General Purpose	A/R
106788A144	Actuator Assembly	1

REFERENCES

Figure 1; AMM 32-00-01, 28-25-02, 20-10-44; SWPM 20-20-00

MECH INSP

MRB ITEM: 49-999A

CMP 28-2

APU FUEL SHUTOFF VALVE - REMOVAL/INSTALLATION

XXXXX 1. APU SHUTOFF VALVE ACTUATOR ASSEMBLY REMOVAL,
TASK 28-25-02-00-801 (FIGURE 1).

A. Procedure

(1) Open these circuit breakers and attach DO-NOT-CLOSE tags:

(a) Circuit Breaker Panel,P6-4:

1) 6A14 AUX POWER UNIT CONT

(b) Circuit Breaker Panel,P6-2:

1) 6B19 APU FIRE SW POWER

WARNING: USE THE CORRECT PROCEDURE TO INSTALL THE GROUND LOCK ASSEMBLIES. THE LANDING GEAR CAN RETRACT QUICKLY AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

(2) Do this task: Landing Gear Downlock Pins Installation (AMM TASK 32-00-01-480-801 p201).

(3) Disconnect the electrical connector [1] from the APU shutoff valve actuator assembly [2].

(4) Disconnect the bonding jumper from the actuator assembly [2].

CAUTION: HOLD THE ACTUATOR ASSEMBLY UP TO MAKE SURE ITS

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MECH: INSP:

WEIGHT IS NOT ON THE SHAFT. YOU CAN CAUSE DAMAGE TO THE SHAFT.

(5) Hold the actuator assembly [2] up and remove the mounting screws [3].

(6) Remove the actuator assembly [2].

(a) Carefully move the actuator assembly [2] away from the mounting adapter [5] until the output shaft is out of the mating part.

(b) Lift the actuator assembly [2] out of the airplane.

XXXXX 2. APU SHUTOFF VALVE ACTUATOR ASSEMBLY INSTALLATION, TASK 28-28-02-400-801 (FIGURE 1).

A. Parts

AMM		IPC			
FIG	ITEM	NOMENCLATURE	SUBJECT	FIG	ITEM
401	2	Actuator assy	28-25-51	03	25
					35

WARNING: USE THE CORRECT PROCEDURE TO INSTALL THE GROUND LOCK ASSEMBLIES. THE LANDING GEAR CAN RETRACT QUICKLY AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

B. Procedure

(1) Make sure the ground lock assemblies are installed (AMM TASK 32-00-01-480-801 p201).

(2) Apply a thin layer of the grease, MIL-PRF-81322 to the keyway of the output shaft.

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CAUTION: HOLD THE ACTUATOR ASSEMBLY UP TO MAKE SURE ITS WEIGHT IS NOT ON THE SHAFT. YOU CAN CAUSE DAMAGE TO THE SHAFT.

(3) Put the output shaft into the input shaft.

(a) Turn the output shaft until the keyway is aligned with the key in the input shaft.

(b) Carefully move the output shaft into the input shaft until the actuator mounting lugs touch the mounting adapter.

(4) If the mounting holes on the APU shutoff valve actuator assembly [2] are not aligned with the mating holes, carefully turn the assembly to align the holes.

(5) Install mounting screws [3] on the actuator assembly [2].

(a) Tighten the mounting screws [3] to a torque of 15-20 inch-pounds.

(b) Install lockwire on each mounting screw [3] (AMM TASK 20-10-44-400-801 p401).

(6) Connect the bonding jumper to the actuator assembly [2].

(7) Do a check of the electrical bond (SWPM 20-20-00).

NOTE: The bonding resistance must not be more than 0.01 ohm.

(8) Connect the electrical connector [1] to the actuator assembly [2].

(9) Remove the DO-NOT-CLOSE tags and close these circuit breakers:

(a) Circuit Breaker Panel, P6-4:

1) 6A14 AUX POWER UNIT CONT

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MECH: INSP:

(b) Circuit Breaker Panel,P6-2:

1) 6B19 APU FIRE SW POWER

(10) Do this task: APU Shutoff Valve Operational Test (AMM TASK 28-25-02-710-801 p401).

WARNING: USE THE CORRECT PROCEDURE TO REMOVE THE GROUND LOCK ASSEMBLIES. THE LANDING GEAR CAN RETRACT QUICKLY AND CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

(11) Do this task: Landing Gear Downlock Pins Removal (AMM TASK 32-00-01-080-801 p201).

XXXXX 3. APU SHUTOFF VALVE OPERATIONAL TEST, TASK 28-25-02-710-801 (FIGURE 1).

A. Procedure

(1) Make sure that these circuit breakers are closed:

(a) BATTERY BUS

(b) Standby Power Control Unit,M1720:

1) 172B4 SW HOT BAT BUS

(c) Circuit Breaker Panel,P6-4:

1) 6A14 AUX POWER UNIT CONT

(d) Circuit Breaker Panel,P6-2:

1) 6B19 APU FIRE SW POWER

(2) Set the battery switch to the ON position.

(3) Set the APU master switch to the ON position.

(a) Make sure the valve override handle moves to the OPEN position.

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MECH: INSP:

| (4) Set the APU master switch to the OFF position.

| (a) Make sure the valve override handle moves to the
| CLOSED position after a maximum of ten (10)
| seconds.

| (5) Set the battery switch to the OFF position.

| ***** END OF WORKCARD *****

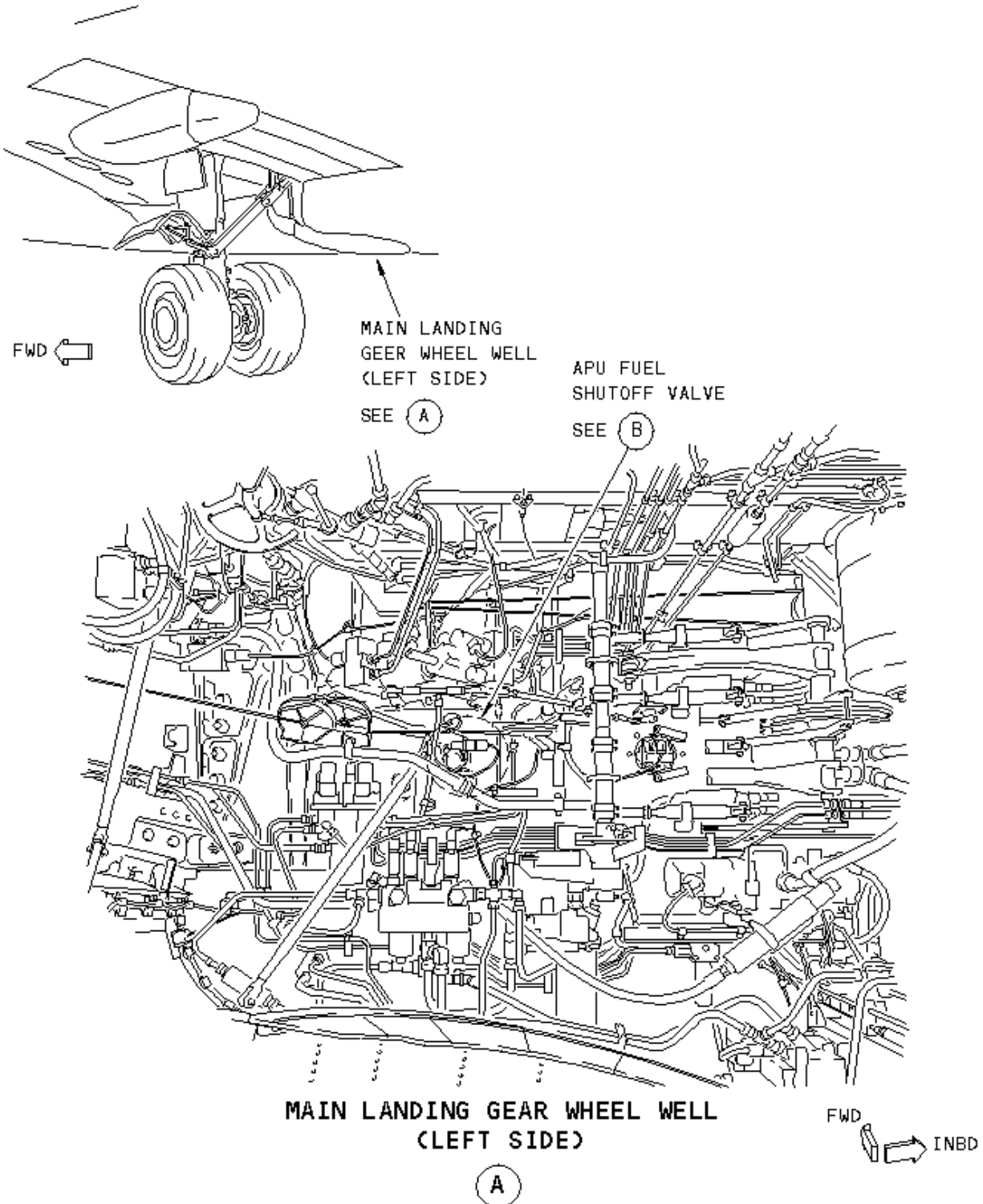


Figure 1, Sheet 1 of 2

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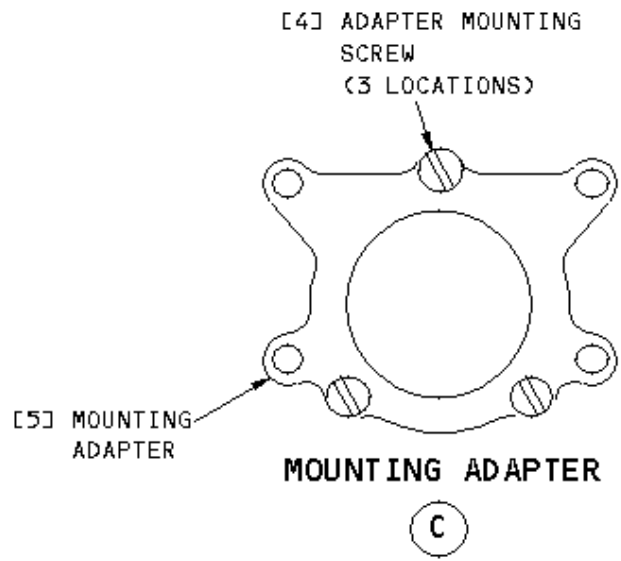
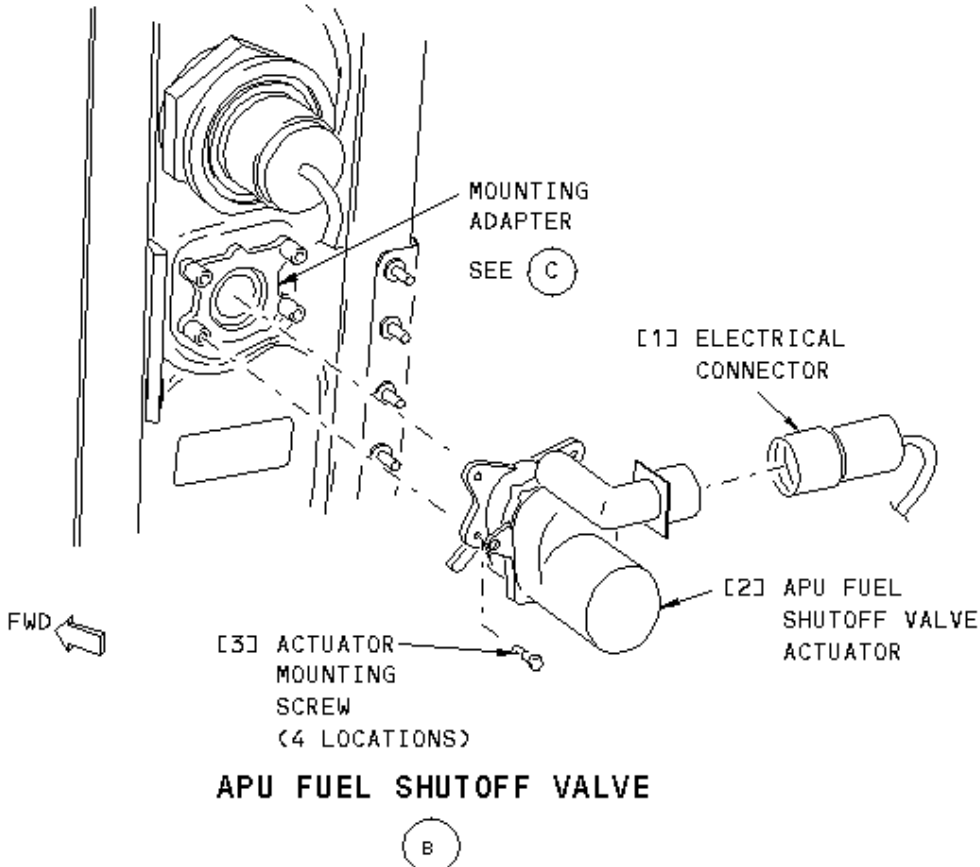


Figure 1, Sheet 2 of 2