

ATA AIRLINES, INC.

POSITIVE PRESSURE RELIEF VALVES

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CHECK BEING PERFORMED: Custom

ZONES: 100
A/C NUMBER:
REV. DATE: 01/23/06
FREQUENCY: 2C

W/C NUMBER: 310F2101 DATE:

TOOLS	DESCRIPTION	QTY
GS15047-1	Fixture - Safety Relief Valve	1
COMMON	Source - Nitrogen, 0-200 PSIG	1
A21010-27	Tank - Vacuum, Pressure Relief Valve Test	1

REFERENCES

FIGURE 1

MECH INSP

MPD ITEM: 21-070-00

Positive Pressure Relief Valve - System Test with the Use of Hamilton Sundstrand Test Equipment (Fig. 1)

1. Prepare for the Test

A. Make sure there is no blockage or unwanted materials at these locations:

- (1) The fuselage skin in the area of the relief valves.
- (2) The overboard vent tube opening in the center of each relief valve.

B. Close the pressure regulator on the valve test fixture, GS15047-1.

C. Connect the source to the pressure regulator of the valve test fixture, GS15047-1.

_____ XXXXX 2. Positive Pressure Relief Valve - (Outboard) System Test

NOTE: This test can only be done on one relief valve at a time. Do the test on the outboard relief valve, then do the test again on the inboard relief valve.

A. Do these steps to do a test of the positive pressure relief valve:

- (1) Put the valve test fixture, GS15047-1 on the relief valve on the fuselage.
- (2) Put the locating crossbar on the valve test fixture, GS15047-1 forward of the deflector tube on the relief valve and hold the fixture in position.

REVISION DATE: 01/23/06

ATA AIRLINES, INC. B737-800 FLEET

W/C #: 310F2101

DATE WORK CARD COMPLETE ___/___/___

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MECH: INSP:

NOTE: The fixture is installed to make sure that the test fixture gasket is not on the opening in the valve.

- (3) Open the air pressure regulator on the valve test fixture, GS15047-1 to start the flow of air.
- (4) Adjust the air pressure regulator so that the indication on the vacuum gage increases 4.5 inches Hg/minute (15.24 kPa/minute) until the vacuum gage shows 15.8 inches Hg (53.5 kPa).

WARNING: THE TEST FIXTURE MUST BE MANUALLY HELD AGAINST THE AIRPLANE FUSELAGE WHEN THE PRESSURE INDICATION IS 15.8 INCHES OF HG (53.5 KPA). WHEN THE VALVE OPENS, THE TEST FIXTURE CAN FALL FROM THE FUSELAGE SURFACE. INJURY TO PERSONNEL OR DAMAGE TO EQUIPMENT COULD RESULT.

- (5) When the vacuum gage shows 15.8 inches Hg (53.5 kPa), manually hold the test fixture against the airplane fuselage until the relief valve opens.
- (6) When the vacuum gage shows 15.8 inches Hg (53.5 kPa), adjust the air pressure regulator to increase the vacuum in 0.1 inchHg (.34 kPa) increments.
- (7) Stop the increase of vacuum for 10 seconds between each increase of 0.1 inch Hg (.34 kPa).
- (8) Continue the intermittent vacuum increases of 0.1 inch Hg (.34kPa) until the valve opens.
- (9) Monitor the indication on the vacuum gage when the valve opens.
- (10) Make sure the valve opens between 17.8 to 18.5 inches Hg (8.75 to 9.09 psi) (60.33 - 62.67 kPa).
- (11) Close the pressure regulator on the valve test fixture, GS15047-1.

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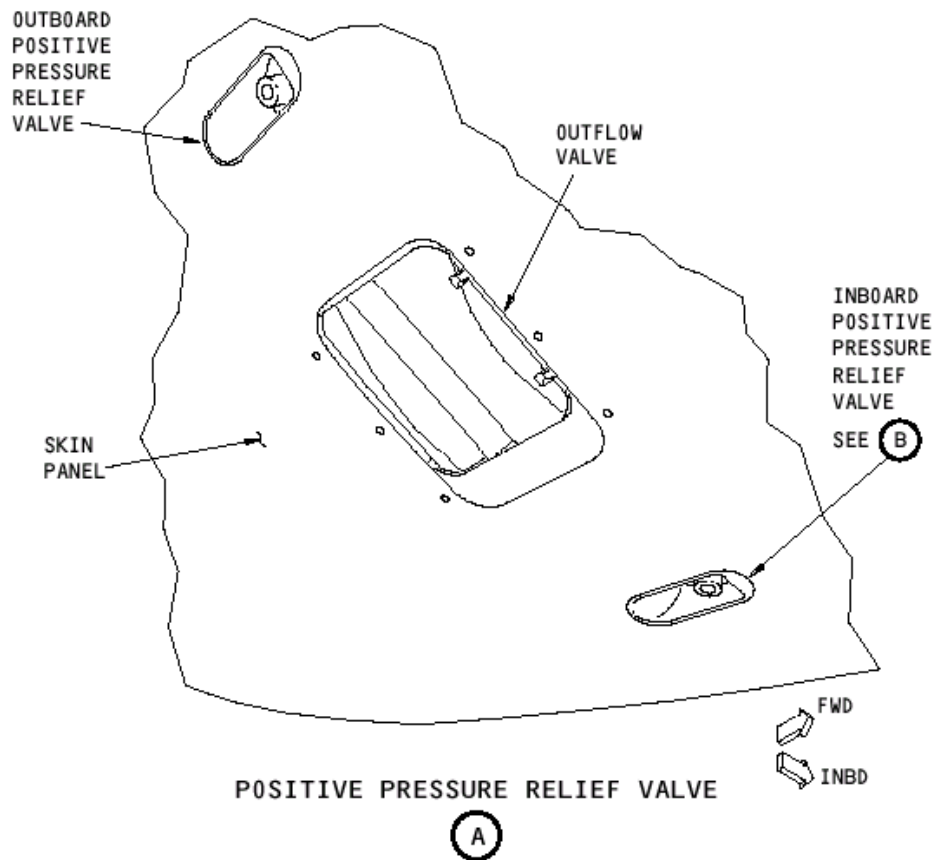
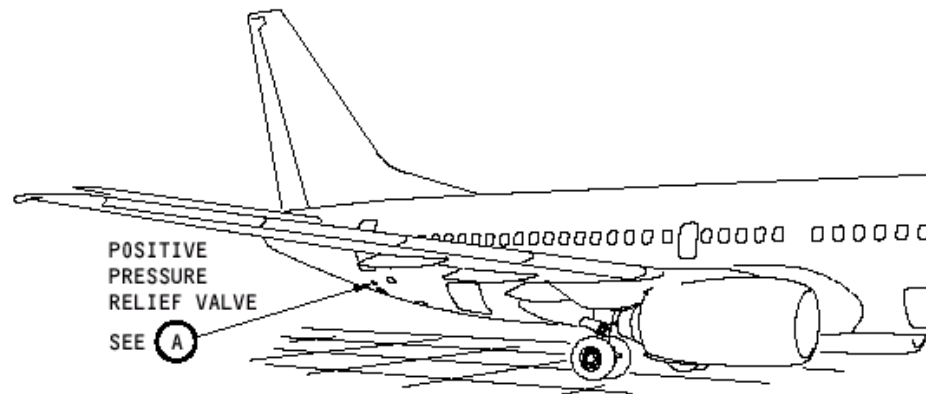
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(12) Remove the valve test fixture, GS15047-1 from the airplane.

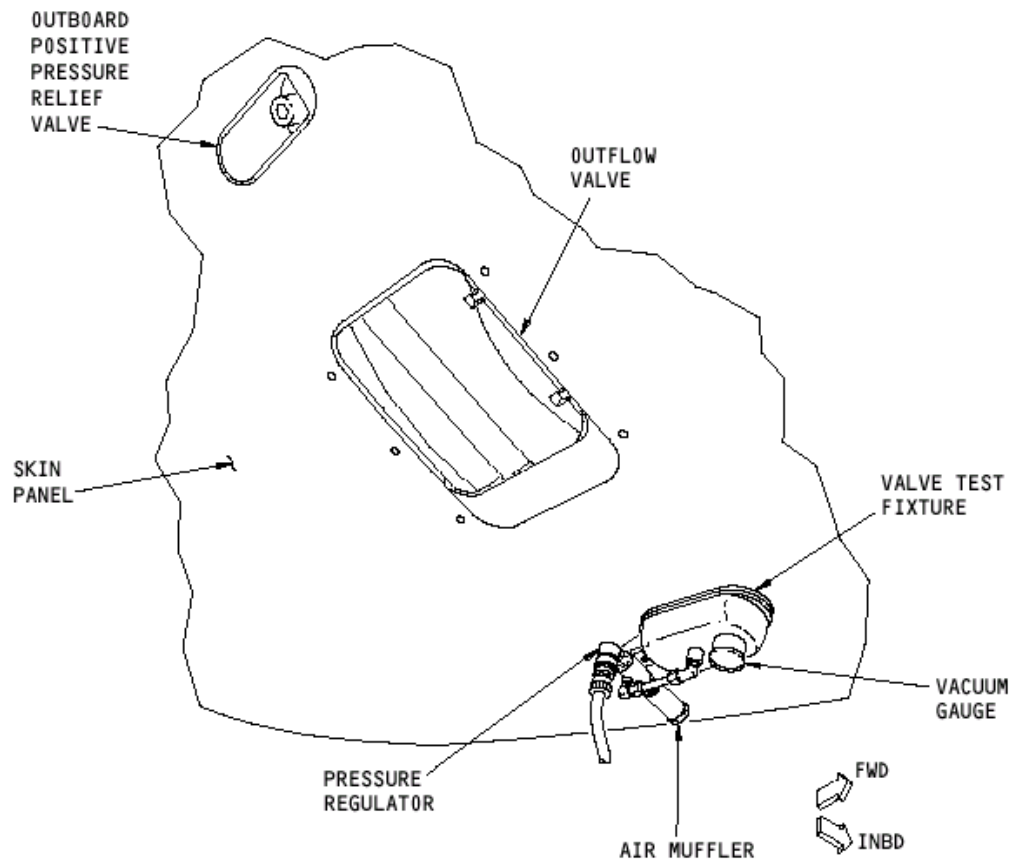
(13) Disconnect the source from the pressure regulator.

_____ XXXXX 3. Repeat the steps above to do a System Test on the Inboard Positive Pressure Relief Valve.

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



Positive Pressure Relief Valve Test Setup



GS15047-1 POSITIVE RELIEF VALVE TEST FIXTURE

(B)

Positive Pressure Relief Valve Test Setup