

ATA AIRLINES, INC.

APU OIL COOLER

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CHECK BEING PERFORMED: Custom

ZONES: 315 316  
A/C NUMBER:  
REV. DATE: 11/17/03  
FREQUENCY: 1C

W/C NUMBER: 231I4901 DATE:  
W/O:  
JAC CODE:

MFR P/N	DESCRIPTION	QTY
PD680	SOLVENT COMPRESSED AIR SOURCE -100 psig MAXIMUM	A/R

PANELS  
315AL  
316AR

REFERENCES

1 MM 12-13-04, 49-11-00

MECH INSP

VISUALLY INSPECT THE APU OIL COOLER FOR DAMAGE AND CONTAMINATION.

1 OIL COOLER INSPECTION

A GENERAL

1 YOU CAN DO THIS INSPECTION WITH THE OIL COOLER INSTALLED OR REMOVED FROM THE APU. IF IT IS NECESSARY TO CLEAN THE OIL COOLER, YOU MUST REMOVE THE OIL COOLER FROM THE APU.

B PROCEDURE

\_\_\_\_\_ XXXXX

1 IF THE OIL COOLER IS INSTALLED ON THE APU, DO THESE STEPS TO PREPARE FOR THE OIL COOLER INSPECTION:

A MAKE SURE THE APU CONTROL SWITCH ON THE P5 PANEL IS OFF AND ATTACH A DO-NOT-CLOSE TAG:

B OPEN THESE CIRCUIT BREAKERS AND ATTACH DO-NOT-CLOSE TAGS:

1 P11, OVERHEAD PANEL

A 11B34, APU ALTN CONT

2 E6 RACK, AFT EQUIPMENT CENTER

A APU CONT

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- \_\_\_\_\_ XXXXX 2 OPEN THE APU ACCESS DOORS IF NOT ALREADY OPEN:
    - A OPEN THE LATCHES ON THE APU ACCESS DOORS.
    - B OPEN THE APU ACCESS DOORS.
    - C ENGAGE THE SUPPORT RODS FOR THE APU ACCESS DOORS.
  
  - \_\_\_\_\_ XXXXX 3 REMOVE THE INLET AND OUTLET DUCTS FROM THE OIL COOLER:
    - A LOOSEN THE COOLER INLET CLAMP (15).
    - B REMOVE THE NUTS (17), THE WASHERS (1), AND THE BOLTS (2) THAT ATTACH THE COOLING FAN DUCT (16) TO THE COOLING FAN (19).
    - C REMOVE THE COOLING FAN DUCT (16).
    - D LOOSEN THE COOLER OUTLET CLAMP (6).
    - E MOVE THE OUTLET DUCT (9) AWAY FROM THE OIL COOLER (5).
  
  - XXXXX \_\_\_\_\_ 4 PERFORM THE VISUAL INSPECTION OF THE OIL COOLER:
    - A EXAMINE THE INTERNAL AND THE EXTERNAL SIDES OF THE OIL COOLER (5) FOR CRACKS, DENTS, HOLES, AND DEFECTIVE WELDS. EXAMINE THE AIR DUCTS FOR CONTAMINATION.
    - B IF DAMAGED, REPLACE THE OIL COOLER.
    - C IF NO CONTAMINATION IS FOUND IN THE OIL COOLER AIR DUCTS PROCEED TO STEP 5 AND N/A STEPS 6, 7, 8, AND 9. IF CONTAMINATION IS FOUND N/A STEP 5 AND PROCEED TO STEP 6.
  
  - | \_\_\_\_\_ XXXXX 5 INSTALL THE INLET AND OUTLET DUCTS TO OIL COOLER:
    - | A CONNECT THE OUTLET DUCT (9) TO THE OIL COOLER (5).
    - | B TIGHTEN THE COOLER OUTLET CLAMP (6) TO 25-30 POUND-INCHES.

- | C INSTALL THE COOLING FAN DUCT (16) INTO ITS POSITION  
| ON THE APU.
- | D TIGHTEN THE COOLER INLET CLAMP (15) TO 25-30  
| POUND-INCHES.
- | E INSTALL THE BOLTS (2), THE WASHERS (1), AND THE NUTS  
| (17) THAT ATTACH THE COOLING FAN DUCT (16) TO THE  
| COOLING FAN (19).
- | F TIGHTEN THE NUTS (17) TO 40-50 POUND-INCHES.
- | G PROCEED TO STEP 10.

- | \_\_\_\_\_ XXXXX 6 REMOVE THE OIL COOLER.
- A REMOVE BOLTS (8) AND THE RETAINER (11) THAT ATTACH  
THE OIL LINES (13 AND 14) TO THE BYPASS VALVE (7).
  - B DISCONNECT THE OIL LINES (13 AND 14) FROM THE BYPASS  
VALVE (7).
  - C REMOVE AND DISCARD THE PACKINGS (10 AND 11) FROM THE  
OIL LINES (13 AND 14).
  - D REMOVE THE BOLTS (4) AND THE WASHERS (3) THAT ATTACH  
THE OIL COOLER (5) TO THE APU.
  - E REMOVE THE OIL COOLER (5) FROM THE APU

- | \_\_\_\_\_ XXXXX 7 CLEAN THE OIL COOLER.
- A INSTALL CAPS ON THE OIL COOLER PORTS FOR PROTECTION.
- WARNING: USE SAFTY GOGGLES WHEN USING COMPRESSED AIR.  
FAILURE TO DO SO COULD LEAD TO EYE INJURY.
- B USE COMPRESSED AIR AT 80 TO 100 PSIG TO REMOVE THE  
LOOSE UNWANTED MATERIAL FROM THE OIL COOLER DUCTS.
- WARNING: USE SPLASH GOGGLES AND GLOVES WHEN USING THE

SOLVENT. THE SOLVENT IS POISONOUS AND CAN CAUSE INJURY TO PERSONS. DO NOT BREATH SOLVENT FUMES AND KEEP THE SOLVENT OFF YOUR SKIN AND OUT OF YOUR EYES AND MOUTH. THE SOLVENT IS FLAME.

- C USE STEAM OR THE SOLVENT IN A SPRAY BOOTH TO CLEAN THE AIR DUCTS OF THE COOLER.
- D DRY THE OIL COOLER DUCTS WITH THE COMPRESSED AIR AT A PRESSURE OF 80 TO 100 PSIG.
- E EXAMINE THE OIL COOLER DUCTS WITH A STRONG LIGHT TO MAKE SURE ALL THE UNWANTED MATERIALS ARE GONE.

| \_\_\_\_\_ XXXXX

8 INSTALL THE OIL COOLER.

- A REMOVE CAPS FROM THE OIL COOLER PORTS.
- B ATTACH THE OIL COOLER (5) TO THE APU BRACKET WITH THE BOLTS (4) AND THE WASHERS(3). TIGHTEN BOLTS TO 50-55 POUND-INCHES.
- C INSTALL NEW PACKINGS (10 AND 11) ON THE OIL LINES (13 AND 14).
- D CONNECT THE OIL LINES (13 AND 14) TO THE BYPASS VALVE (7) WITH RETAINER (11) AND THE BOLTS (8).
- E CONNECT THE OULET DUCT (9) TO THE OIL COOLER (5) AND TIGHTEN THE COOLER OUTLET CLAMP (6) TO 25-30 POUND-INCHES .
- F PUT THE COOLING FAN DUCT (16) INTO POSITION ON THE APU AND TIGHTEN THE COOLER INLET CLAMP (15) TO 25-30 POUND-INCHES.
- G INSTALL THE BOLTS (2), WASHERS (1), AND THE NUTS (17) THAT ATTACH THE COOLING FAN DUCT (16) TO THE COOLING FAN (19). TIGHTEN THE NUTS (17) TO 40-50 POUND-INCHES.

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9 LEAK CHECK OIL COOLER.

APU OIL COOLER

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A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 231I4901 (continued)

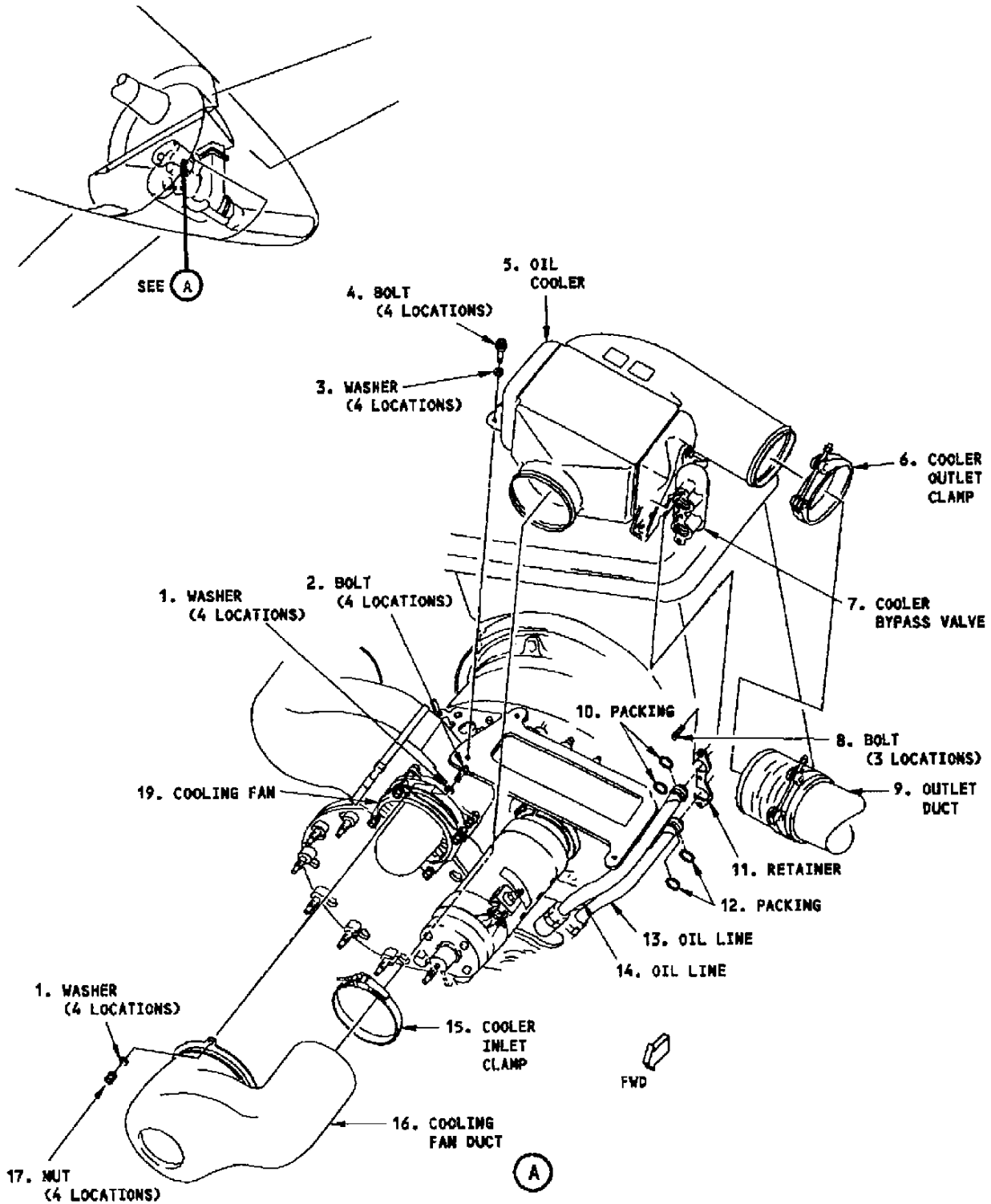
MECH: INSP:

- A FILL THE APU OIL RESERVOIR (REF. MM 12-13-04/301).
- B REMOVE THE "DO NOT CLOSE" TAGS FROM THE FOLLOWING CIRCUIT BREAKERS:
  - (1) 11B34, APU ALTN CONT (P11 PANEL)
  - (2) APU CONT (AFT EQUIPMENT CENTER)
- C REMOVE THE "DO NOT CLOSE" TAGS FROM THE APU CONTROL SWITCH ON THE P5 PANEL.
- D START AND OPERATE THE APU (REF. MM 49-11-00/201).
- E DURING OPERATION, EXAMINE THE OIL COOLER FOR LEAKAGE.
- F SHUT DOWN APU (REF. MM 49-11-00/201).
- G IF LEAKAGE WAS FOUND, REPAIR AS REQUIRED.
- H VERIFY THE APU OIL RESERVOIR IS FULL (REF. MM 12-13-04/301).

\_\_\_\_\_ XXXXX 10 CLOSE APU ACCESS DOORS.

- A DISENGAGE THE SUPPORT RODS FOR THE APU ACCESS DOORS.
- B PUT THE SUPPORT RODS IN THE CLIPS ON THE INNER SIDE OF THE ACCES DOORS.
- C LIFT THE RIGHT ACCESS DOOR UNTIL THE SPRING LATCH, AT FORWARD END OF THE DOOR, CATCHES AND HOLDS THE DOOR ON THE FUSELAGE FRAME.
- D LIFT THE LEFT ACCESS DOOR AND ALIGN IT WITH THE RIGHT ACCESS DOOR.
- E CLOSE AND LATCH THE ACCESS DOORS.

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



APU OIL COOLER