

ATA AIRLINES, INC.

COMPRESSOR OUTLET OVERHEAT SWITCH

PAGE 1 / 5

CHECK BEING PERFORMED: Custom

ZONES: 135 136 212
A/C NUMBER:
REV. DATE: 11/17/03
FREQUENCY: 4C

W/C NUMBER: 215M2102
DATE:
W/O:
JAC CODE:

| MFR P/N | DESCRIPTION | QTY |
|-------------|---------------------------------|-----|
| 641137-1 | COMPRESSOR DISCHARGE O/H SWITCH | 2 |
| MIL-L-23398 | ANTISEIZE COMPOUND | A/R |
| MS9385-07 | PACKING | 2 |

PANELS

193HL
194ER

MECH INSP

CHECK (OFF-AIRCRAFT) SWITCH SETTING OF COMPRESSOR OUTLET OVERHEAT SWITCH AND CIRCUIT VERIFICATION.

XXXXX

1 COMPRESSOR OUTLET OVERHEAT SWITCH - REMOVAL

A REFERENCES

- 1 06-41-00/201, FUSELAGE ACCESS DOORS AND PANELS
- 2 21-51-05/401, COMPRESSOR OUTLET OVERHEAT SWITCH - REMOVAL

B ACCESS PANELS

- 1 193HL, ECS ACCESS DOOR (LEFT)
- 2 194ER, ECS ACCESS DOOR (RIGHT)

C PREPARE FOR REMOVAL

XXXXX

1 MAKE SURE THESE CIRCUIT BREAKERS ON THE OVERHEAD PANEL, P11, ARE OPEN AND ATTACH A DO-NOT-CLOSE TAG:

- A 11A13, AIR COND PACK LEFT AUTO CONT
- B 11A28, AIR COND PACK RIGHT AUTO CONT

D REMOVE THE COMPRESSOR OUTLET OVERHEAT SWITCH

1 DO THE STEPS THAT FOLLOW TO REMOVE THE COMPRESSOR OUTLET OVERHEAT SWITCH:

XXXXX

A DISCONNECT THE ELECTRICAL CONNECTOR FROM THE SWITCH.

COMPRESSOR OUTLET OVERHEAT SWITCH

PAGE:2 /5

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 215M2102 (continued)

MECH: INSP:

CAUTION: USE TWO WRENCHES TO REMOVE THE SWITCH FROM THE BOSS. DAMAGE MAY OCCUR TO THE DUCT IF YOU DO NOT USE TWO WRENCHES.

_____ XXXXX B REMOVE THE LOCKWIRE AND THE SWITCH FROM THE BOSS AND DISCARD THE PACKING.

_____ XXXXX C ATTACH AN M-31 TAG TO THE REMOVED SWITCH AND ROUTE TO STORES. IN THE "REMOVAL REMARKS" SECTION OF THE M-31 WRITE, "SWITCH REQUIRES FUNCTIONAL CHECK OF TEMPERATURE SETTINGS."

2 COMPRESSOR OUTLET OVERHEAT SWITCH - INSTALLATION

A CONSUMABLE MATERIALS

- 1 D000386 - ANTISEIZE COMPOUND, MIL-L-23398
- 2 ANTISEIZE COMPOUND - EASE- OFF 990

B REFERENCES

- 1 06-41-00/201, FUSELAGE ACCESS DOORS AND PANELS
- 2 20-10-23/401, STANDARD PRACTICES - LOCKWIRES
- 3 21-51-05/403, COMPRESSOR OUTLET OVERHEAT SWITCH - INSTALLATION
- 4 24-22-00/201, ELECTRICAL POWER CONTROL
- 5 36-00-00/201, PNEUMATIC - GENERAL

C ACCESS PANELS

- 1 193HL, ECS ACCESS DOOR (LEFT)
- 2 194ER, ECS ACCESS DOOR (RIGHT)

D INSTALL THE COMPRESSOR OUTLET OVERHEAT SWITCH

- 1 DO THE STEPS THAT FOLLOW TO INSTALL THE COMPRESSOR OUTLET

COMPRESSOR OUTLET OVERHEAT SWITCH

PAGE: 3 / 5

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 215M2102 (continued)

MECH: INSP:

OVERHEAT SWITCH:

_____ XXXXX A MAKE SURE THE MATING SURFACE OF THE BOSS AND THE SWITCH NUT ARE CLEAN TO PERMIT ELECTRICAL GROUND.

_____ XXXXX B APPLY A THIN LAYER OF ANTI-SEIZE COMPOUND TO THE THREADS OF THE SWITCH.

CAUTION: USE TWO WRENCHES TO INSTALL THE SWITCH IN THE BOSS. DAMAGE MAY OCCUR TO THE DUCT IF YOU DO NOT USE TWO WRENCHES.

_____ XXXXX C INSTALL THE SWITCH, WITH NEW PACKING, INTO THE COMPRESSOR DISCHARGE DUCT AND TIGHTEN THE SWITCH TO A TORQUE VALUE OF 210-240 POUND-INCHES AND INSTALL LOCKWIRE.

_____ XXXXX D INSTALL THE ELECTRICAL CONNECTOR ON THE SWITCH.

| _____ XXXXX E MAKE SURE THESE CIRCUIT BREAKERS ON THE OVERHEAD PANEL P11, ARE CLOSED AND REMOVE THE DO-NOT-CLOSE TAG:

1 11A13, AIR COND PACK LEFT AUTO CONT

2 11A28, AIR COND PACK RIGHT AUTO CONT

3 COMPRESSOR OUTLET OVERHEAT SWITCH TEST

THE FOLLOWING PROCEDURE APPLIES TO THE ON-AIRCRAFT PORTION OF THIS TASK (CIRCUIT VERIFICATION).

A REFERENCES

1 06-41-00/201, FUSELAGE ACCESS DOORS AND PANELS

2 24-22-00/201, ELECTRICAL POWER - CONTROL

B PREPARE FOR SYSTEM TEST

_____ XXXXX 1 SUPPLY ELECTRICAL POWER (REF 24-22-00).

_____ XXXXX 2 MAKE SURE THE EICAS CIRCUIT BREAKERS (5 LOCATIONS) ON

COMPRESSOR OUTLET OVERHEAT SWITCH

PAGE:4 /5

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 215M2102 (continued)

MECH: INSP:

THE OVERHEAD CIRCUIT BREAKER PANEL, P11 ARE CLOSED.

_____ XXXXX 3 TURN THE L AND R PACK SELECTORS ON THE OVERHEAD PANEL, P5, TO THE STBY C POSITION.

C DO THE LEFT (RIGHT) COMPRESSOR OUTLET TEST FOR THE OVERHEAT SWITCH.

_____ XXXXX 1 REMOVE THE ELECTRICAL CONNECTOR FROM THE COMPRESSOR OUTLET OVERHEAT SWITCH.

_____ XXXXX 2 CONNECT A JUMPER BETWEEN PIN NO. 1 AND 2 OF THE OVERHEAT SWITCH ELECTRICAL CONNECTOR.

A MAKE SURE THE APPLICABLE PACK OFF AND INOP LIGHT COMES ON, ON THE P5 PANEL.

B MAKE SURE THE RAM AIR INLET AND EXHAUST DOORS STAY OPEN.

C MAKE SURE THE TEMP CONTROL VALVE MOVES TO THE FULL OPEN POSITION.

D MAKE SURE THE SOLENOID B ON THE FLOW CONTROL VALVE OPERATES.

NOTE: YOU WILL HEAR A CLICK IF THE SOLENOID OPERATES CORRECTLY.

E MAKE SURE THE EICAS MESSAGES, L (R) PACK TEMP AND L (R) PACK OFF, SHOW ON THE TOP EICAS DISPLAY.

_____ XXXXX 3 REMOVE THE JUMPER AND CONNECT THE ELECTRICAL CONNECTOR TO THE OVERHEAT SWITCH.

_____ XXXXX 4 PUSH THE APPLICABLE L (R) PACK RESET SWITCH ON THE P5 PANEL.

A MAKE SURE PACK INOP LIGHT ON THE P5 PANEL GOES OFF.

B MAKE SURE THE SOLENOID PLUNGER B, ON THE FLOW CONTROL VALVE IS IN THE ON OR OPEN POSITION.

COMPRESSOR OUTLET OVERHEAT SWITCH

PAGE:5 /5

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 215M2102 (continued)

MECH: INSP:

C MAKE SURE THE EICAS MESSAGE, L (R) PACK TEMP, DOES NOT SHOW ON THE BOTTOM DISPLAY.

D PUT THE AIRPLANE BACK TO ITS USUAL CONDITION

_____ XXXXX 1 REMOVE THE ELECTRICAL POWER IF IT IS NOT NECESSARY.
(REF 24-22-00)

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