

ATA AIRLINES, INC.

IGNITION SYSTEMS AUDIBLE CHECK (FLT/CONT/AUTO MODES)

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CHECK BEING PERFORMED: Custom

ZONES: 211 411 421
A/C NUMBER:
REV. DATE: 04/05/04
FREQUENCY: 1C

W/C NUMBER: 240M7401 DATE:
W/O:
JAC CODE:

MECH INSP

MPD TASK R74-00-00-5B
R74-00-00-5C

AUDIBLE CHECK OF IGNITION SYSTEM WITH START SWITCH IN FLT. MODE AND ALL THREE POSITIONS (1, BOTH, 2) OF THE IGNITION SELECT SWITCH.

AUDIBLE CHECK OF IGNITION SYSTEM WITH START SWITCH IN CONT AND AUTO MODES AND WITH ENGINE ANTI-ICE SWITCH ON, IN ALL THREE POSITIONS (1, BOTH, 2) OF THE IGNITION SELECT SWITCH.

OPERATIONAL TEST - IGNITION SYSTEM

1. REFERENCES

- A AMM 24-22-00-2, Electrical Power - Control.
- B AMM 71-00-00-2, Power Plant.
- C AMM 71-11-04-2, Fan Cowl Panels.
- D AMM 78-31-00-2, Thrust Reverser.

2. PREPARATION

WARNING: DO NOT DO A CHECK OF THE IGNITION SYSTEM WHEN YOU HAVE ANY OF THE CONDITIONS THAT FOLLOW:

- THE AIRPLANE IS IN THE HANGAR,
- THE AIRPLANE IS NEAR BUILDINGS AND/OR OTHER AIRPLANES THAT ARE WITHIN THE JET-WAKE HAZARD AREA FOR GROUND IDLE (AMM 71-00-00-2), OR
- DURING AIRPLANE FUELING.

MAKE SURE THAT NO PERSONS OR EQUIPMENT ARE IN THE JET-WAKE HAZARD AREA FOR GROUND IDLE (AMM 71-00-00-2) OF THE APPLICABLE ENGINE.

IGNITION VOLTAGE IS VERY DANGEROUS. DO NOT TOUCH THE IGNITER PLUGS, THE ENERGIZED PART OF THE IGNITION EXCITER OR THE LEADS DURING OPERATIONS.

REVISION DATE: 04/05/04

ATA AIRLINES, INC. B757 FLEET

W/C #: 240M7401

DATE WORK CARD COMPLETE ___/___/___

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_____ XXXXX A. Make sure the conditions around the airplane are correct before you do the test.

| WARNING: USE AMM 71-00-00-2 TO OPERATE THE POWER PLANT. IF YOU DO NOT USE THIS PROCEDURE, YOU CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

| CAUTION: BEFORE YOU TEST THE IGNITION SYSTEM, DRY MOTOR THE ENGINE TO REMOVE UNBURNED FUEL (AMM 71-00-00-2). UNBURNED FUEL CAN CAUSE AN INTERNAL ENGINE FIRE OR A TURBINE EXHAUST AREA FIRE.

MAKE SURE THE N3 ROTOR DOES NOT TURN WHEN YOU DO THE TEST OF THE IGNITION SYSTEM. IF N3 ROTOR TURNS, FUEL CAN GO INTO THE COMBUSTION CHAMBER WHEN THE FUEL CONTROL SWITCH IS PUT TO THE RUN POSITION. AN ACCIDENTAL ENGINE LIGHTUP CAN OCCUR.

| B. Do the procedure to dry motor the engine to clear the gas path of remaining fuel (AMM 71-00-00-2).

_____ XXXXX Engine 1

_____ XXXXX Engine 2

C. Do these steps to prepare for the operational test:

_____ XXXXX (1) Supply electrical power.

| (2) Open the fan cowl panels (AMM 71-11-04-2).

_____ XXXXX Engine 1

_____ XXXXX Engine 2

| WARNING: OBEY THE INSTRUCTIONS IN AMM 78-31-00-2 WHEN YOU OPEN THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURY TO PERSONS OR DAMAGE TO EQUIPMENT COULD OCCUR.

| (3) If it is necessary, open the applicable thrust reverser (AMM 78-31-00-2). N/A this step if

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reverser not opened.

_____ XXXXX

Engine 1

_____ XXXXX

Engine 2

Note: Noise levels can make it necessary to open the thrust reverser to do the operational test of the ignition system.

_____ XXXXX

(4) Make sure these circuit breakers are closed:

(a) P11 Overhead Circuit Breaker Panel.

- 1) 11J2, EICAS CMPTR LEFT.
- 2) 11J3, EICAS UPPER IND.
- 3) 11J29, EICAS CMPTR RIGHT.
- 4) 11J30K, EICAS LOWER DISPLAY.
- 5) 11J31, EICAS DISPLAY SW.
- 6) 11J32, EICAS DISPLAY SELECT.

(5) Make sure the FUEL CONTROL switch is in the CUTOFF position.

_____ XXXXX

Engine 1

_____ XXXXX

Engine 2

_____ XXXXX

(6) For the left and right engines, make sure these circuit breakers are closed:

(a) P6-1 Main Power Distribution Panel.

- 1) 6C1, FUEL COND CONT L.
- 2) 6C2, FUEL COND CONT R.
- 3) 6E1, FUEL VALVES L SPAR.

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4) 6E2, FUEL VALVES R SPAR.

(b) P11 Overhead Circuit Breaker Panel.

1) 11D7, ENGINES STBY IGN LEFT 1.

2) 11D9, ENGINES STBY IGN RIGHT 1.

3) 11D8, ENGINES STBY IGN LEFT 2.

4) 11D10, ENGINES STBY IGN RIGHT 2.

5) 11D19, ENGINE START CONT LEFT.

6) 11D20, ENGINE START CONT LEFT.

7) 11L1, LEFT ENGINE IGN 1.

8) 11L28, RIGHT ENGINE IGN 1.

(7) Make sure the ENGINE VALVE, SPAR VALVE and the engine start VALVE lights are off.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

_____ XXXXX (8) For the left and right engines, open these circuit breakers and attach DO-NOT-CLOSE tags:

(a) P6-1 Main Power Distribution Panel.

1) 6C1, FUEL COND CONT L.

2) 6C2, FUEL COND CONT R.

3) 6E1, FUEL VALVES L SPAR.

4) 6E2, FUEL VALVES R SPAR.

(b) P11 Overhead Circuit Breaker Panel.

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1) 11D19, ENGINE START CONT LEFT.

2) 11D20, ENGINE START CONT RIGHT.

3. OPERATIONAL CHECK

A. Put the FUEL CONT switch to the RUN position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

B. Put the ignition select switch to the 1, 2 or BOTH position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

C. Put the ENGINE START switch to the FLT position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

D. Make sure the igniter plug fires.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

E. Make sure the EICAS message IGN STBY BUS is not shown.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

F. Put the ENGINE START switch to the OFF position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

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G. Put the ignition select switch to 1.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

H. Put the ENGINE START switch to the CONT position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

I. Make sure the igniter plugs fire.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

J. Make sure the EICAS message IGN STBY BUS is not shown.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

K. Put the ENGINE START switch to the OFF position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

L. Put the ignition select switch to 2.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

M. Put the ENGINE START switch to the CONT position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

N. Make sure the igniter plug fires.

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MECH: INSP:

_____ XXXXX Engine 1

_____ XXXXX Engine 2

O. Put the ENGINE START switch to the OFF position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

P. Put the ignition select switch to the BOTH position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

Q. Put the ENGINE START switch to the CONT position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

R. Make sure the igniter plug fires.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

S. Put the ENGINE START switch to the OFF position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

T. Put the ENGINE ANTI-ICE switchlight to the ON position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

U. Put the ignition select switch to 1.

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MECH: INSP:

_____ XXXXX Engine 1

_____ XXXXX Engine 2

V. Put the ENGINE START switch to the AUTO position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

W. Make sure the igniter plug fires.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

X. Make sure the EICAS message IGN STBY BUS is not shown.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

Y. Put the ENGINE START switch to the OFF position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

Z. Put the ignition select switch to 2.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

AA. Put the ENGINE START switch to the AUTO position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

AB. Make sure the igniter plug fires.

_____ XXXXX Engine 1

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MECH: INSP:

_____ XXXXX Engine 2
AC. Put the ENGINE START switch to the OFF position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2
AD. Put the ignition select switch to the BOTH position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2
AE. Put the ENGINE START switch to the AUTO position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2
AF. Make sure the igniter plug fires.

_____ XXXXX Engine 1

_____ XXXXX Engine 2
AG. Put the ENGINE START switch to the OFF position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2
AH. Put the ENGINE ANTI-ICE switchlight to the OFF position.

_____ XXXXX Engine 1

_____ XXXXX Engine 2
AI. Put the FUEL CONT switch to the CUTOFF position.

_____ XXXXX Engine 1

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_____ XXXXX Engine 2

4. CONCLUSION

_____ XXXXX A. For the left and right engines, remove the DO-NOT-CLOSE tags and close these circuit breakers:

(1) P6-1 Main Power Distribution Panel.

(a) 6C1, FUEL COND CONT L.

(b) 6C2, FUEL COND CONT R.

(c) 6E1, FUEL VALVES L SPAR.

(d) 6E2, FUEL VALVES R SPAR.

(2) P11 Overhead Circuit Breaker Panel.

(a) 11D19, ENGINE START CONT LEFT.

(b) 11D20, ENGINE START CONT RIGHT.

WARNING: OBEY THE INSTRUCTIONS IN 78-31-00-2 WHEN YOU CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURY TO PERSONS OR DAMAGE TO EQUIPMENT COULD OCCUR.

C. Close the thrust reversers if opened for test (AMM 78-31-00-2). N/A this step if thrust reversers not opened for this test, or if required open for other maintenance.

_____ XXXXX Engine 1

_____ XXXXX Engine 2

CAUTION: OBEY THE PRECAUTIONS FOR THE KEVLAR WRAPPING WHEN YOU CLOSE THE FAN COWL PANEL. IF THE PRECAUTIONS ARE NOT OBEYED, DAMAGE TO THE KEVLAR WRAPPING CAN OCCUR.

D. Close the fan cowl panels (AMM 71-11-04-2).

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_____ XXXXX Engine 1

_____ XXXXX Engine 2

_____ XXXXX E. Remove the electrical power, if it is not necessary
| (AMM 24-22-00-2).

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