

ATA AIRLINES, INC.

#1 ENGINE IGNITION SYSTEM AUDIBLE CHECK (GROUND MODE)

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CHECK BEING PERFORMED: Custom

ZONES: 211 411
A/C NUMBER:
REV. DATE: 11/14/03
FREQUENCY: 1A

W/C NUMBER: 241M7401 DATE:
W/O:
JAC CODE:

MECH INSP

AUDIBLE CHECK WITH IGNITION SYSTEM START SWITCH IN GROUND MODE.

NOTE: WORK THIS WORKCARD IN CONJUNCTION WITH WORKCARD 241R7401
WHEN THEY ARE ISSUED IN THE SAME CHECK PACKAGE.

1. Audible Test - Ignition System.

A. References.

- (1) AMM 24-22-00/201, Electrical Power - Control.
- (2) AMM 71-00-00/201, Power Plant.
- (3) AMM 71-11-04/201, Fan Cowl Panels.
- (4) AMM 78-31-00/201, Thrust Reverser.

B. Procedure.

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 71-00-00/201), OR
- DURING AIRPLANE FUELING.

WARNING: MAKE SURE THAT NO PERSONS OR EQUIPMENT ARE IN
THE JETWAKE HAZARD AREA FOR GROUND IDLE
(AMM 71-00-00/201) OF THE APPLICABLE ENGINE.

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

_____ XXXXX

- (1) Make sure the conditions around the airplane are
correct before you do the test.

WARNING: USE AMM 71-00-00/201 TO OPERATE THE POWER PLANT.

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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 71-00-00/201). UNBURNED FUEL CAN CAUSE AN INTERNAL ENGINE FIRE OR A TURBINE EXHAUST AREA FIRE.

CAUTION: MAKE SURE 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 LIGHT-UP CAN OCCUR.

_____ XXXXX (2) Do the procedure to dry motor the engine to clear the gas path of remaining fuel (AMM 71-11-04/201).

_____ XXXXX (3) Open the fan cowl panels (AMM 71-11-04/201)

WARNING: OBEY THE INSTRUCTIONS IN 78-31-00/201 WHEN YOU OPEN THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURY TO PERSONS OR DAMAGE TO EQUIPMENT COULD OCCUR.

_____ XXXXX (4) Open the thrust reversers (AMM 78-31-00/201).

_____ XXXXX (5) Supply the electrical power (AMM 24-22-00/201).

_____ XXXXX (6) Make sure these circuit breakers are closed:

(a) P11 Overhead Circuit Breaker Panel.

1) 11J2, EICAS CMPTR LEFT.

2) 11J3, EICAS UPPER DISPLAY.

3) 11J29, EICAS CMPTR RIGHT.

4) 11J30, EICAS LOWER IND.

5) 11J31, EICAS DISPLAY SW.

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6) 11J32, EICAS PILOTS DISPLAY.

_____ XXXXX (7) Make sure the FUEL CONTROL switch is in the CUTOFF position.

_____ XXXXX (8) Make sure these circuit breakers are closed:

(a) P6-1 Main Power Distribution Panel.

1) 6C1, FUEL COND CONT L.

2) 6E1, FUEL VALVES L SPAR.

(b) P11 Overhead Circuit Breaker Panel.

1) 11D7, ENGINES STBY IGN LEFT 1.

2) 11D8, ENGINES STBY IGN LEFT 2.

3) 11D19, ENGINE START CONT LEFT.

4) 11L1, LEFT ENGINE IGN 1.

_____ XXXXX (9) Make sure the ENG VALVE, SPAR VALVE and the engine start valve lights are off.

_____ XXXXX (10) Open these circuit breakers and attach a DO-NOT-CLOSE tag:

(a) P6-1 Main Power Distribution Panel.

1) 6C1, FUEL COND CONT L.

2) 6E1, FUEL VALVES L SPAR.

(b) P11 Overhead Circuit Breaker Panel.

1) 11D19, ENGINE START CONT LEFT.

_____ XXXXX (11) Do these steps to do the audible test:

(a) Put the FUEL CONT switch to the RUN position.

(b) Put the ignition select switch to 1.

CAUTION: DO NOT OPERATE THE IGNITERS FOR MORE THAN 10 SECONDS AT A TIME. THE IGNITION COMPONENTS MAY OVERHEAT.

(c) Put the ENGINE START switch to the GND position.

(d) Make sure the igniter plug fires.

Note: You can hear the igniter plug fire when you are near the engine.

(e) Make sure the EICAS message IGN STBY BUS is not shown.

(f) Put the ENGINE START switch to the OFF position.

(g) Put the ignition select switch to 2.

(h) Put the ENGINE START switch to the GND position.

(i) Make sure the igniter plug fires.

(j) Put the ENGINE START switch to the OFF position.

(k) Put the FUEL CONT switch to the CUT OFF position.

_____ XXXXX (12) Remove the DO-NOT-CLOSE tags and close these circuit breakers:

(a) P6-1 Main Power Distribution Panel.

1) 6C1, FUEL COND CONT L.

2) 6E1, FUEL VALVES L SPAR.

(b) P11 Overhead Circuit Breaker Panel.

1) 11D19, ENGINE START CONT LEFT.

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WARNING: OBEY THE INSTRUCTIONS IN 78-31-00/201 WHEN YOU CLOSE THE THRUST REVERSERS. IF YOU DO NOT OBEY THE INSTRUCTIONS, INJURY TO PERSONS OR DAMAGE TO EQUIPMENT COULD OCCUR.

_____ XXXXX (13) Close the thrust reversers (AMM 78-31-00/201).

Note: If you do no more tests, do the steps that close the fan reversers. If you will do more tests, let the fan reverser stay open and continue.

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.

_____ XXXXX (14) Close the fan cowl panels (AMM 71-11-04/201)

Note: If you do no more tests, do the steps that close the fan cowl panels. If you will do more tests, let the fan cowl panels stay open and continue.

_____ XXXXX (15) If necessary, do the task: OPERATIONAL TEST-IGNITION SYSTEM.

_____ XXXXX (16) Remove the electrical power, if it is necessary (AMM 24-22-00/201).

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