

# ATA AIRLINES, INC.

STANDBY POWER SYSTEM

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CHECK BEING PERFORMED: Custom

ZONES: 212  
A/C NUMBER:  
REV. DATE: 05/15/01  
FREQUENCY: 1A

W/C NUMBER: 221F2402      DATE:  
W/O:  
JAC CODE:

MECH      INSP

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CHECK OPERATION OF STANDBY POWER SYSTEM.

1 Standby Power System Check

A References

- 1 24-22-00/201, Electrical Power - Control
- 2 27-61-00/201, Spoiler/Speedbrake Contrl System

B Prepare for the Standby Power Check.

\_\_\_\_\_ XXXXX      1 Supply electrical power (Ref 24-22-00).

WARNING: MAKE SURE THE SPOILERS ARE DEACTIVATED OR THAT ALL PERSONS AND EQUIPMENT ARE REMOVED FROM THE SPOILER AREA. POWER SOURCES ARE CHANGED AS SWITCHES ARE TURNED OR CIRCUIT BREAKERS ARE OPENED, WHICH CAN CAUSE MOVEMENT OF THE SPOILERS. ACCIDENTAL MOVEMENT OF THE SPOILERS CAN INJURE PERSONS OR DAMAGE EQUIPMENT.

\_\_\_\_\_ XXXXX      2 Do the deactivation procedure for the spoilers (Ref 27-61-00) or remove all persons and equipment from the spoiler area.

\_\_\_\_\_ XXXXX      3 Make sure these circuit breakers on the main power distribution panel (referred to as the P6 panel) are closed:

- a 6A1, BAT BUS DISTR
- b 6A2, DC STBY
- c 6A4, BAT CUR MON PWR
- d 6A5, STBY PWR CONT
- e 6A6, DC BUS TIE CONT
- f 6C10, BAT BUS CONT

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REVISION DATE: 05/15/01

ATA AIRLINES, INC. B757 FLEET

W/C #: 221F2402

DATE WORK CARD COMPLETE \_\_\_/\_\_\_/\_\_\_

STANDBY POWER SYSTEM

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 221F2402

(continued)

MECH: INSP:

- g 6C17, L TRU
- h 6C23, R TRU
- i 6D1, BAT OVHT PROT
- j 6D2, BAT XFR CONT
- k 6D10, INV PWR TRU
- l 6D11, BAT BUS PWR TRU
- m 6G5, STBY BUS OFF LT BAT VM
- n 6L8, MAIN BAT CHGR
- o 6L9, HOT BAT BUS
- p 6L10, BAT BUS PWR
- q 6L11, INV PWR BAT
- r 6M13, AC STBY BUS OFF
- s 6M15, INVERTER VOLT SENSE

\_\_\_\_\_ XXXXX 4 Make sure the 6 EICAS circuit breakers on the overhead panel (referred to as the P11 panel) are closed.

\_\_\_\_\_ XXXXX 5 Make sure this circuit breaker on the APU/external power panel (referred to as the P34 panel) is closed.

- a 34B2, (Plate A), GROUND POWER BPCU

\_\_\_\_\_ XXXXX 6 Make sure this circuit breaker on the right miscellaneous electrical equipment panel (referred to as the P37 panel) is closed:

- a 37B2, BATTERY CHARGERS MAIN

C Procedure

- \_\_\_\_\_ XXXXX
- 1 Do a check of the standby power system, as follows:
    - a Turn the STBY POWER switch on the pilots' overhead panel (referred to as the P5 panel) to the OFF position.
    - b Make sure the yellow OFF light adjacent to the STBY POWER switch comes on.
    - c Make sure the EICAS message, STANDBY BUS OFF, shows on the upper display.
    - d Turn the STBY POWER switch on the P5 panel to the AUTO position.
    - e Make sure the yellow OFF light adjacent to the STBY POWER switch goes off.
    - f Push the ELEC HYD switch on the EICAS maintenance panel on the right side panel (Referred to as the P61 panel).
    - g Make sure the values that follow show on the bottom EICAS display.
      - 1 STBY BAT: AC-V = 115 +/- 5  
FREQ = 400 +/- 5  
DC-V = 24 +/- 4
      - 2 APU/BAT: DC-V = 24 +/- 4
    - h Make sure the EICAS message, STANDBY BUS OFF, does not show on the bottom display.
    - i Turn the STBY POWER switch on the P5 panel to the BAT position.
    - j Make sure the yellow MAIN BATT DISCH and APU BATT DISCH lights on the P5 panel comes on.
    - k Make sure the EICAS message MAIN BAT DISCH and APU BATT DISCH shows on the top display.

- l Make sure the value that follows is below STBY.BAT on the bottom EICAS display:
- 1 DC-V = 25 +/- 2
- m Turn the STBY POWER switch on the P5 panel to the AUTO position.
- n Make sure the yellow MAIN BATT DISCH and APU BATT DISCH lights on the P5 panel extinguish.
- o Make sure the value that follows is below STBY/BAT on the bottom EICAS display:
- 1) DC-A = 38 +/- 5
- p Make sure the DC-V value below STBY/BAT increases to 33 +/- 4 on the bottom EICAS display.

NOTE: The main battery is in the charge cycle. A charge cycle of one to five minutes is usual, but a fully discharged battery requires 90 minutes to charge.

- q Make sure the DC-A value below STBY/BAT decreases from 38 +/- 5 to 0 +/- 5 in less than two seconds.

NOTE: If more than two seconds is required for the DC-A value to decrease to 0 +/- 5, there is a failure in the battery charger or its external circuit.

- r Make sure the DC-V value below STBY/BAT is 28 +/- 2 on the bottom EICAS display.
- s Push the STATUS switch on the EICAS display select panel on the forward electronics panel, P9.
- t Make sure the EICAS message, MAIN BAT CHGR, does not shown on the bottom display.

\_\_\_\_\_ XXXXX

- 2 Do the activation procedure for the spoilers (Ref 27-61-00), if deactivated.

