

ATA AIRLINES, INC.

MAIN BATTERY CHARGER/CURRENT MONITOR

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CHECK BEING PERFORMED: Custom

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

W/C NUMBER: 221F2401 DATE:
W/O:
JAC CODE:

MECH INSP

VERIFY MAIN BATTERY CHARGER OPERATION.

CHECK OPERATION OF BATTERY CURRENT MONITORING
CAPABILITY.

1 Functional Test - Main Battery Charger and Current Monitor.

NOTE: This is a scheduled maintenance task.

A References.

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

B Prepare for the Functional Test.

- _____ XXXXX 1 Do the deactivation procedure for the spoilers (Ref 27-61-00) or remove all the persons and equipment from the spoiler area.

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 PUSHED OR CIRCUIT BREAKERS ARE OPENED, WHICH CAN CAUSE THE SPOILER TO MOVE. ACCIDENTAL MOVEMENT OF THE SPOILERS CAN CAUSE INJURY TO PERSONS OR DAMAGE TO EQUIPMENT.

- _____ XXXXX 2 Supply electrical power (Ref 24-22-00).

- _____ 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 6A3, DC STBY BUS OFF

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- d 6A4, BAT CUR MON PWR
- e 6A5, STBY PWR CONT
- f 6A6, DC BUS TIE CONT
- g 6B4, BUS PWR CONT UNIT
- h 6C9, C BUS PWR
- i 6C10, BAT BUS CONT
- j 6C11, L DC VOLT SENSE
- k 6C17, L THRU
- l 6C23, R THRU
- m 6D1, BAT OVHT PROT
- n 6D2, BAT XFR CONT
- o 6D7, SECT 2
- p 6D8, SECT 1
- q 6D9, TIE L
- r 6D10, INV PWR TRU
- s 6D11, BAT BUS PWR TRU
- t 6G5, STBY BUS OFF LT BAT VM
- u 6H7, SECT 2
- v 6H8, SECT 1
- w 6H9, TIE R
- x 6H10, R DC VOLT SENSE

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MECH: INSP:

- y 6K16, AC STBY BUS PWR
- z 6L7, APU/MAIN BAT TIE
- aa 6L8, MAIN BAT CHGR
- ab 6L9, HOT BAT BUS
- ac 6L10, BAT BUS PWR
- ad 6L11, INV PWR BAT
- ae 6L12, CENTER BUS DC
- af 6M13, AC STBY BUS OFF
- ag 6M14, INVERTER CENTER BUS AC
- ah 6M15, INVERTER VOLT SENSE

_____ XXXXX 4 Make sure these circuit breakers on the overhead circuit breaker panel, P11, are closed:

- a six EICAS circuit breakers
- b 11A19, EXT STBY BAT
- c 11A20, EXT STBY CONT

_____ XXXXX 5 Make sure this circuit breaker on the right generator power panel, P32, is closed:

- a 32A8, (PLATE A), R GEN GND SVCE BUS.

_____ XXXXX 6 Make sure these circuit breakers on the APU/external power panel, P34, are closed.

- a 34A16 (PLATE A), MN/APU BAT CHGR DET ENABLE
- b 34B2 (PLATE A), GROUND POWER BPCU

_____ XXXXX 7 Make sure these circuit breakers on the right miscellaneous electrical equipment panel, P37, are

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closed.

a 37B2, MAIN BATTERY CHARGER.

b 37K2, APU BATTERY CHARGER.

_____ XXXXX 8 Make sure these circuit breakers on the aft equipment rack, E6, are closed.

a APU BATT OVERHEAT PROT

b APU BATT DC VOLT

c APU BATT CHGR

d BATT DISCH IND INHIBIT

_____ XXXXX 9 Main Battery Charger and Current Monitor Functional Test.

a Make sure the bottom EICAS display is in the ELEC HYD mode. Push the ELEC HYD switch on the EICAS MAINT panel on the right side panel P61 panel, if necessary.

b Make sure the BAT switch, on the P5 panel, is set to the ON position.

c Turn the STBY POWER switch, on the P5 panel, to the BAT position.

d Make sure the MAIN BAT DISCH light on the P5 panel comes on.

e Make sure the EICAS message, MAIN BAT DISCH, shows on the top display.

f Make sure these values show below STBY/BAT on the bottom EICAS display:

1 DC-V = 25 +/- 2

2 DC-A a number larger than 4 in quantity

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NOTE: This value will have a minus sign in front of it to show that it is a discharge current.

g After one minute, turn the STBY POWER switch, on the P5 panel, to the AUTO position.

h Make sure the DISCH light on the P5 panel goes off.

i Make sure the DC-A value is 38 +/- 5 below STBY/BAT on the bottom EICAS display.

NOTE: This value will have a plus sign in front of it to show that it is a charge current.

j Make sure the DC-V value below STBY/BAT increase to 33 +/- 4 volts and then decreases to 28 +/- 2 volts.

NOTE: It will usually take from one to five minutes for the voltage value to increase and then decrease. But a fully discharged battery can extend time to 90 minutes.

k After the DC-V value below STBY/ BAT decrease to 28 +/- 2 volts the DC-A value below STBY/BAT is 0 +/- 5 amps.

l Push the ECS MSG switch on the EICAS MAINT panel on the P61 panel.

m Make sure the EICAS message, MAIN BAT CHRG, does not show on the top display.

n Make sure the DISCH light on the P5 panel is off.

C Put the Airplane Back To Its Usual Condition.

_____ XXXXX 1 Do the activation procedure for the spoilers if you did the deactivation procedure (Ref 27-61-00).

_____ XXXXX 2 Remove electrical power if it is not necessary (Ref 24-22-00).

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

REVISION DATE: 05/15/01

ATA AIRLINES, INC. B757 FLEET

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DATE WORK CARD COMPLETE ___/___/___