

# ATA AIRLINES, INC.

RESTORE MAIN AND AUXILIARY AIRCRAFT BATTERIES

PAGE 1 / 7

CHECK BEING PERFORMED: Custom

ZONES: 100  
A/C NUMBER:  
REV. DATE: 03/11/04  
FREQUENCY:

W/C NUMBER: 314R2401      DATE:

MFR P/N	DESCRIPTION	QTY
BA35-01	Battery, Main and Auxillary	2

TOOLS	DESCRIPTION	QTY
C24003-1	Equipment - Battery Installation	1

PANELS  
117A

## REFERENCES

Figures 1-3; AMM 24-22-00; FIM 24-31

MECH      INSP

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MPD ITEM: 24-120-00

XXXXX 1. Prepare for the Main and Auxiliary Battery removal (Figs 1-3).

A. Make sure the BAT switch on the P5-13 panel is set to the OFF position.

B. Make sure the STANDBY POWER switch on the P5-5 panel is set to the AUTO position.

C. Open this circuit breaker and attach a tag-out form (M-142):

(1) Standby Power Control Unit, M1720:

(a) 172B1 SPCU NORMAL

D. Open the Electronic Equipment Access Door, 117A, to get access to the main equipment center.

E. Open these circuit breakers and attach tag-out form (M-142):

(1) AUXILIARY BATTERY CHARGER

(2) Battery Shield, J9:

(a) 9A4 BATTERY CHARGER

F. Get access to the forward cargo area through the forward cargo door.

(1) Remove the forward bulkhead liner to get access to the battery

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REVISION DATE: 03/11/04      ATA AIRLINES, INC. B737-800 FLEET      W/C #: 314R2401

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

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 314R2401 (continued)

MECH: INSP:

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| \_\_\_\_ XXXXX 2. Remove the Main Battery [1] as follows:

- | A. Disconnect the battery connector from the battery.
- | B. Disconnect the electrical connector from the battery.
- | C. Remove the six bolts [2] and washers [3] from the battery mounting brackets.
- | D. Slide the skid plate, equipment, C24003-1 under the battery.
- | NOTE: The skid plate is used so that the battery will not touch the seal just below it.
- | CAUTION: DO NOT LET THE BATTERY TOUCH THE SEAL JUST BELOW THE BATTERY MOUNTING RACK. IF THE BATTERY TOUCHES THE SEAL IT CAN SCRATCH IT AND CAUSE DAMAGE TO THE SEAL.
- | E. Slide the battery out from the battery rack to the forward cargo area.
- | F. Tag and route battery to shop for functional check and restoration.

| \_\_\_\_ XXXXX 3. Remove the auxiliary battery [1] as follows:

- | A. Disconnect the battery connector from the battery.
- | B. Disconnect the electrical connector from the battery.
- | C. Remove the six bolts [2] and washers [3] from the battery mounting brackets.
- | D. Slide the skid plate, equipment, C24003-1 under the battery.
- | NOTE: The skid plate is used so that the battery will not touch the seal just below it.
- | CAUTION: DO NOT LET THE BATTERY TOUCH THE SEAL JUST BELOW THE BATTERY MOUNTING RACK. IF THE BATTERY TOUCHES THE SEAL IT CAN SCRATCH IT AND CAUSE DAMAGE TO THE SEAL.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 314R2401 (continued)

MECH: INSP:

E. Slide the battery out from the battery rack to the forward cargo area.

F. Tag and route battery to shop for functional check and restoration.

XXXXX 4. Install the Main Battery as follows (Figs. 1-3):

A. Put the skid plate, equipment, C24003-1 in position as shown in Figure 3.

CAUTION: DO NOT LET THE BATTERY TOUCH THE SEAL JUST BELOW THE BATTERY MOUNTING RACK. IF THE BATTERY TOUCHES THE SEAL IT CAN SCRATCH IT AND CAUSE DAMAGE TO THE SEAL.

B. Have two persons hold each of the battery handles and lift the battery onto the skid plate.

(1) Slide the battery into position.

NOTE: Make sure the terminals point left.

C. Remove the skid plate.

NOTE: You may have to tilt the battery back some to remove the skid plate.

D. Install the six bolts [2] and washers [3] on the battery mounting brackets.

E. Connect the electrical connector to the battery.

F. Connect the battery connector to the battery.

XXXXX 5. Install the Auxiliary Battery [1] as follows:

A. Put the skid plate, equipment, C24003-1 in position as shown in Figure 3.

CAUTION: DO NOT LET THE BATTERY TOUCH THE SEAL JUST BELOW THE BATTERY MOUNTING RACK. IF THE BATTERY TOUCHES THE SEAL IT CAN SCRATCH IT AND CAUSE DAMAGE TO THE SEAL.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 314R2401 (continued)

MECH: INSP:

B. Have two persons hold each of the battery handles and lift the battery onto the skid plate.

(1) Slide the battery into position.

NOTE: Make sure the terminals point left.

C. Remove the skid plate.

NOTE: You may have to tilt the battery back some to remove the skid plate.

D. Install the six bolts [2] and washers [3] on the battery mounting brackets.

E. Connect the electrical connector to the battery.

F. Connect the battery connector to the battery.

G. Remove the tag-out form (M-142) and close these circuit breakers:

(1) AUXILIARY BATTERY CHARGER

(2) Battery Shield, J9:

(a) 9A4 BATTERY CHARGER

H. Remove the tag-out form (M-142) and close this circuit breaker:

(1) Standby Power Control Unit, M1720:

(a) 172B1 SPCU NORMAL

XXXXX 6. Battery Installation Test

A. Do this task: Supply External Power (AMM TASK 24-22-00-860-813 p201).

B. Make sure the STANDBY POWER switch on the P5-5 panel is in the AUTO position.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 314R2401 (continued)

MECH: INSP:

C. Make sure the ELEC light on the P5-13 panel is OFF.

(1) To clear ELEC light messages, do this task: P5-13 ELEC Light Message BITE Procedure (FIM 24-31 TASK 818).

D. Test the Main Battery per the steps that follow:

(1) Set the GRD PWR switch on the P5-4 panel to the OFF position.

(2) Make sure the BAT switch on the P5-13 panel is set to the ON position.

(3) Set the DC meter selector switch on the P5-13 panel to the BAT position.

(4) Make sure the DC meter on the P5-13 panel shows these values:

(a) DC VOLTS = 22-28.

(b) DC AMPS = a negative value.

NOTE: The battery current is negative when the battery is discharging.

(5) Make sure the BAT DISCHARGE light on the P5-13 panel comes on. This light will come on when any of these conditions are met:

(a) The battery current is greater than 5 Amps for more than 95 seconds.

(b) The battery current is greater than 10 Amps for more than 25 seconds.

(c) The battery current is greater than 100 Amps for more than 1.2 seconds.

(6) Set the GRD PWR switch to the ON position.

(7) Make sure the DC AMPS value goes to 45 +/- 10 AMPS and then goes down to less than 5 AMPS within 180 minutes.

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 314R2401 (continued)

MECH: INSP:

NOTE: 180 minutes is the maximum. It can take less time depending the state of the battery.

(8) Make sure the DC VOLTS value goes to 30 +/- 3 VOLTS.

(9) Make sure the BAT DISCHARGE light goes off.

XXXXX E. Test the Auxiliary Battery per the steps that follow:

(1) Set the GRD PWR switch on the P5-4 panel to the OFF position.

(2) Make sure the BAT switch on the P5-13 panel is set to the ON position.

(3) Set the DC meter selector switch on the P5-13 panel to the AUX BAT position.

(4) Make sure the DC meter on the P5-13 panel shows these values:

(a) DC VOLTS = 22-28

(b) DC AMPS = a negative value

NOTE: The battery current is negative when the battery is discharging.

(5) Make sure the BAT DISCHARGE light on the P5-13 panel comes on. This light will come on when any of these conditions are met:

(a) The battery current is greater than 5 Amps for more than 95 seconds.

(b) The battery current is greater than 10 Amps for more than 25 seconds.

(c) The battery current is greater than 100 Amps for more than 1.2 seconds.

(6) Set the GRD PWR switch to the ON position.

RESTORE MAIN AND AUXILIARY AIRCRAFT BATTERIES

PAGE:7 /7

A/C NUMBER:

CHECK BEING PERFORMED: Cust

W/C NUMBER: 314R2401 (continued)

MECH: INSP:

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| (7) Make sure the DC AMPS value goes to 45 +/- 10 AMPS and  
| then goes down to less than 5 AMPS within 180 minutes.

| NOTE: 180 minutes is the maximum. It can take less time  
| depending the state of the battery.

| (8) Make sure the DC VOLTS value goes to 30 +/- 3 VOLTS.

| (9) Make sure the BAT DISCHARGE light goes off.

| F. Set the clock GMT and date.

| G. Get access to the main equipment center. Make sure the  
| BATTERY and CHARGER lights on the front of the main battery  
| charger and auxiliary battery charger are on.

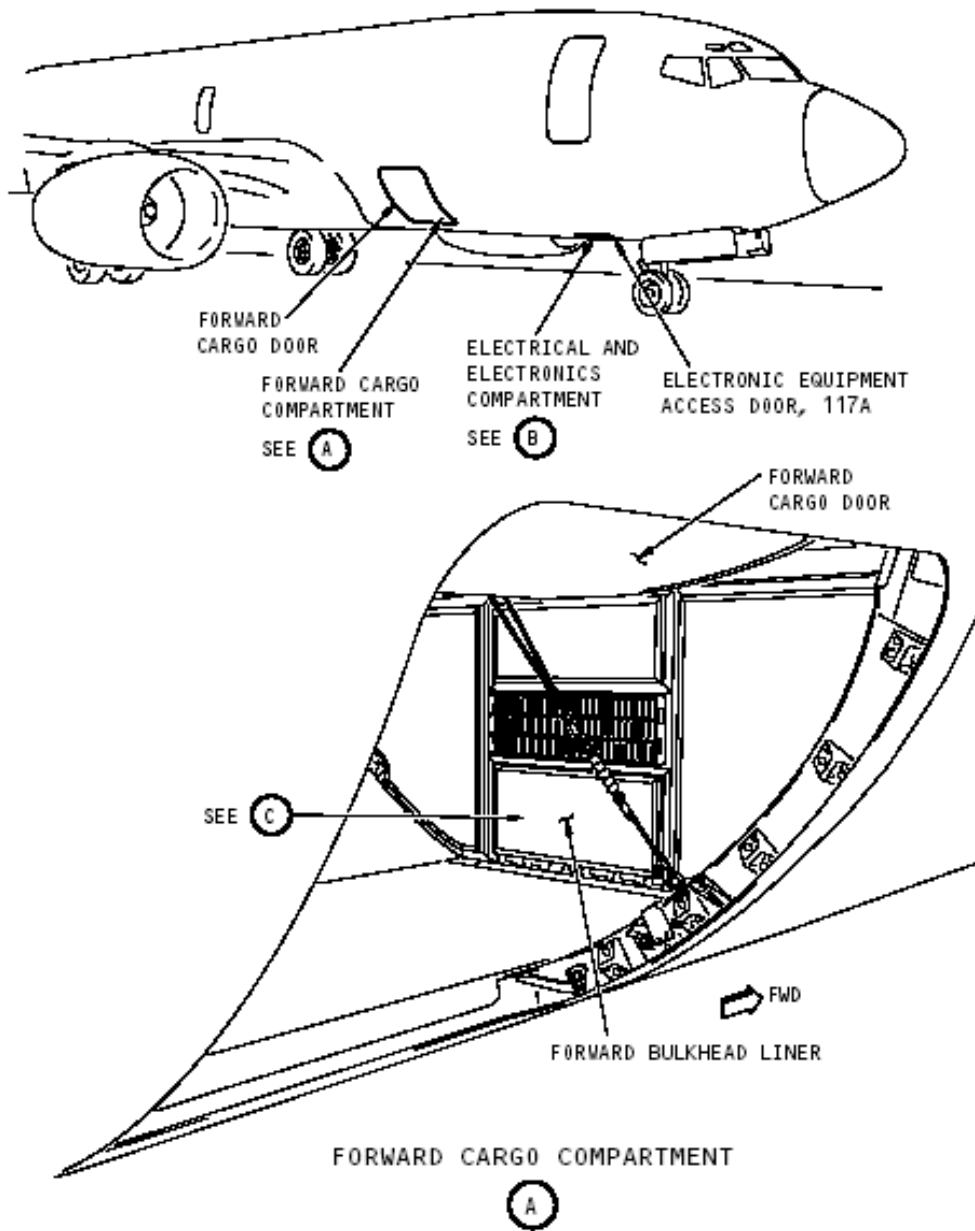
|\_\_\_\_\_ XXXXX 7. Put the airplane back to its usual condition.

| A. Install the forward bulkhead liner.

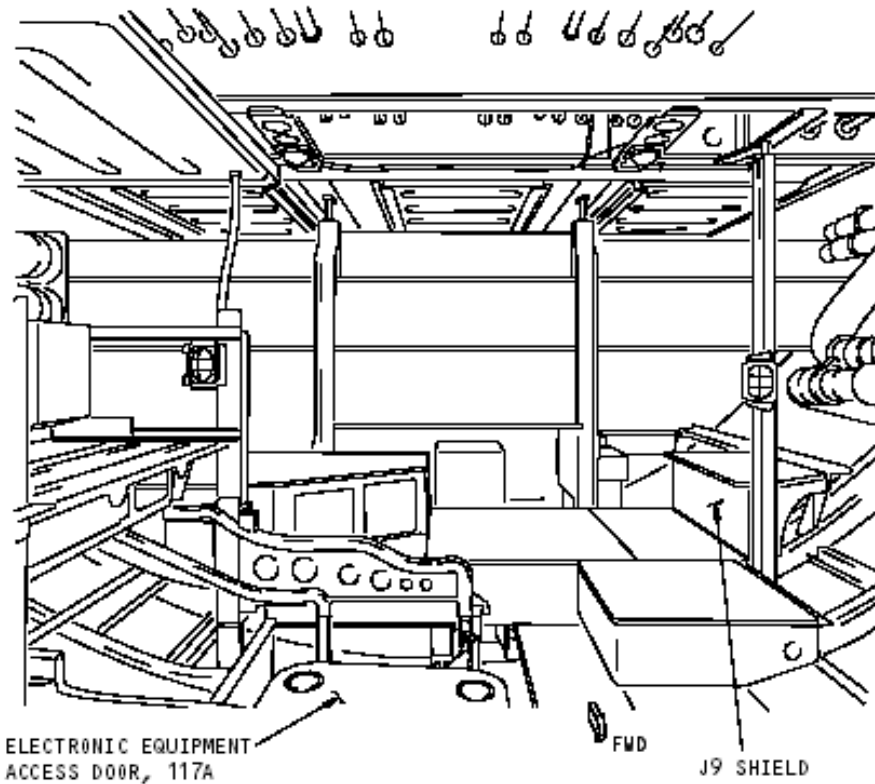
| B. Close the Electronic Equipment Access Door, 117A.

| C. Remove Electrical Power as required  
| (Ref. AMM TASK 24-22-00-860-812 p201).

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



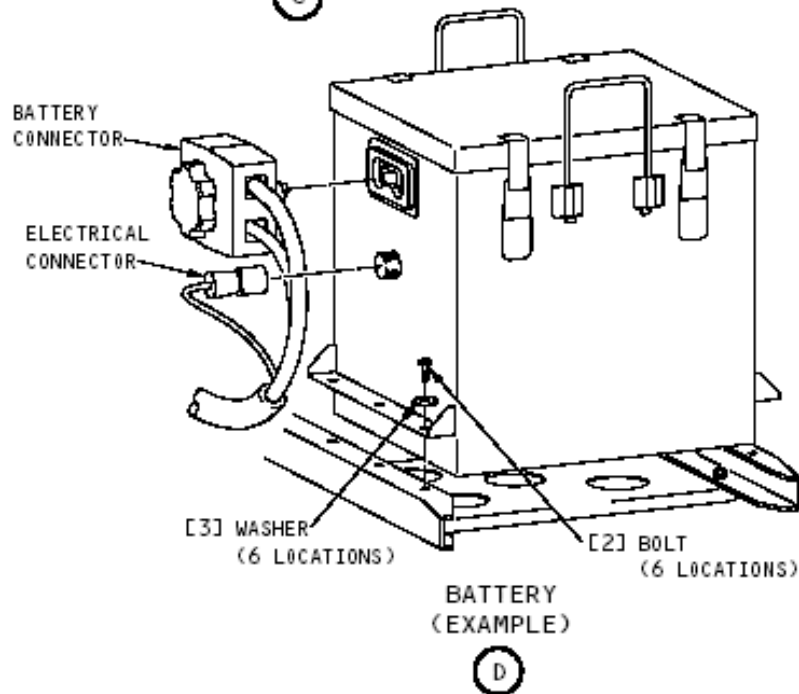
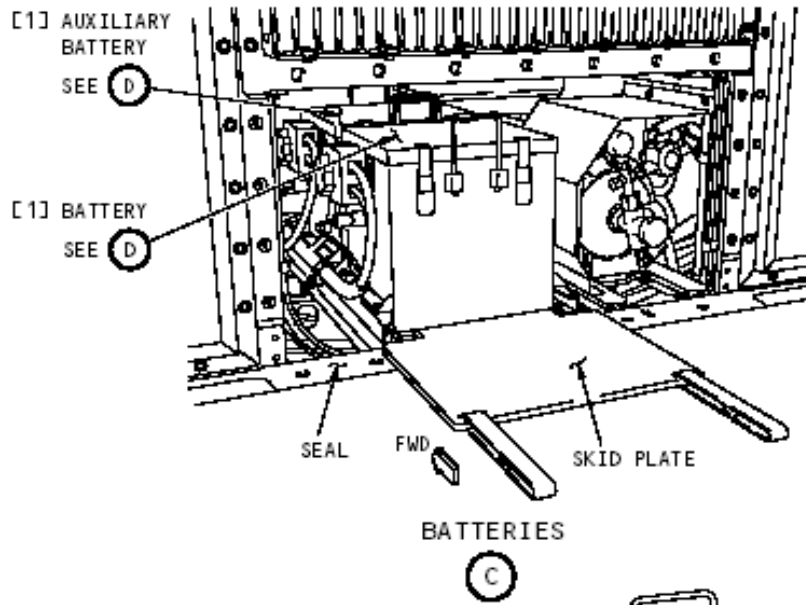
Battery Installation



ELECTRICAL AND ELECTRONICS COMPARTMENT

(B)

Battery Installation



Battery Installation