

## AVIONICS POWER DIODE BOX - REMOVAL/INSTALLATION

EFFECTIVITY: ALL

### 1. General

- A. This section gives the procedures to remove and install the avionics power diode box.
- B. The avionics power diode box is installed below the cockpit floor and you can get access to it through access door 123BL.
- C. The procedures in this section are given in the sequence below. The tasks identified with (♦) are part of the Scheduled Maintenance Requirements Document (SMRD).

TASK NUMBER	DESCRIPTION	EFFECTIVITY
31-61-01-000-801-A	AVIONICS POWER DIODE BOX - REMOV- AL	ALL
31-61-01-400-801-A	AVIONICS POWER DIODE BOX - INSTAL- LATION	ALL

TASK 31-61-01-000-801-A

EFFECTIVITY: ALL

## 2. AVIONICS POWER DIODE BOX - REMOVAL

### A. General

(1) This task gives the procedures to remove the avionics power diode box.

### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Below the cockpit floor.

### D. Tools and Equipment

Not Applicable

### E. Auxiliary Items

Not Applicable

### F. Consumable Materials

Not Applicable

### G. Expandable Parts

Not Applicable

### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Below the cockpit floor

### I. Preparation

**SUBTASK 841-002-A**

- (1) Make sure that the aircraft is de-energized ( [AMM TASK 20-40-01-860-801-A/200](#)).
- (2) Remove access door 123BL (AMM MPP 06-41-01/100) to get access to the avionics power diode box.

### J. Removal ([Figure 401](#))

**SUBTASK 020-002-A**

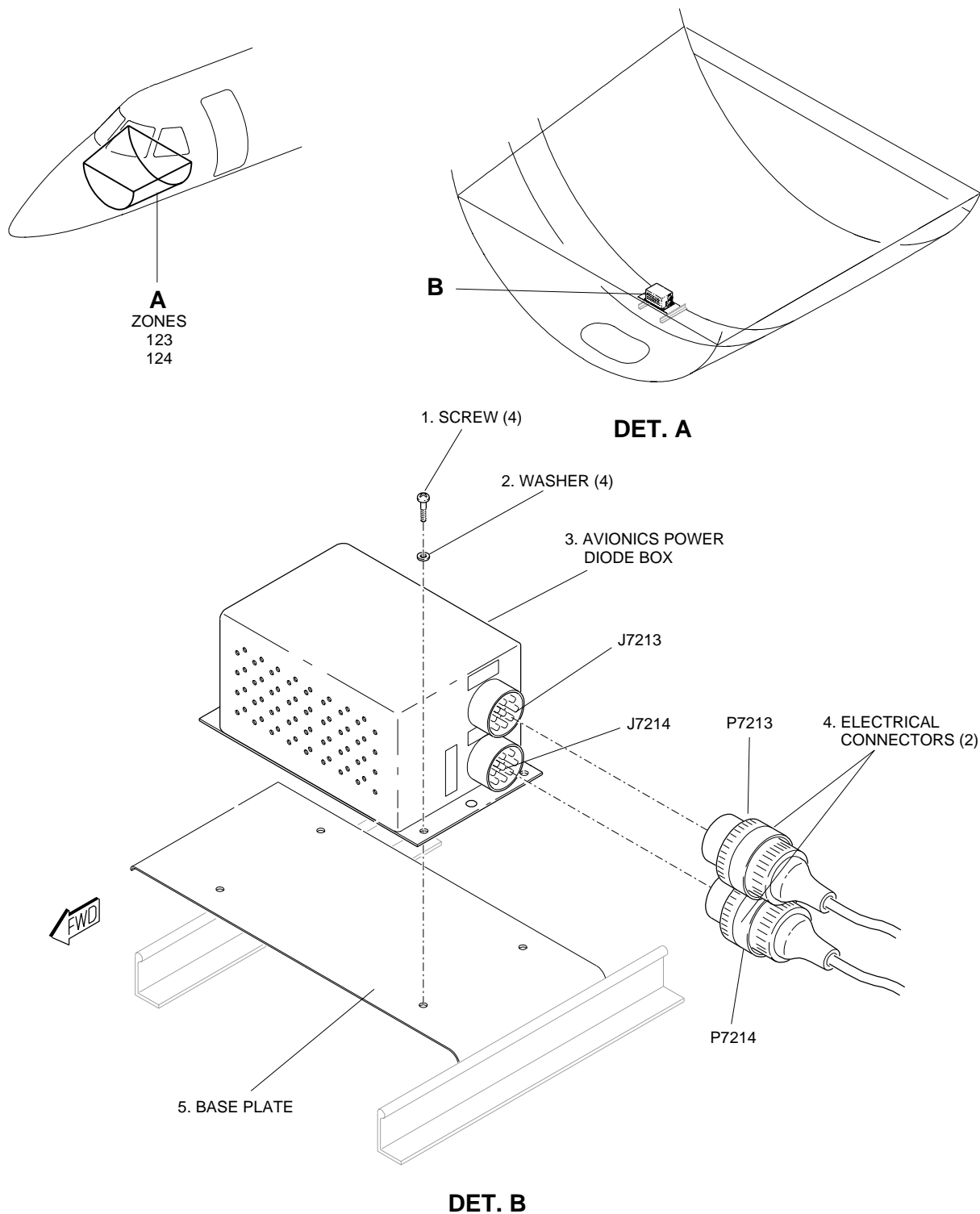
- (1) Disconnect the two electrical connectors (4).
- (2) Install protection caps on the electrical connectors (4).

- (3) Remove the screws (1) and washers (2) that attach the avionics power diode box (3) to the base plate (5).
- (4) Remove the avionics power diode box (3) from the base plate (5).

**EFFECTIVITY: ALL**

Avionics Power Diode Box - Removal/Installation

Figure 401



145AMM310163.MCE

TASK 31-61-01-400-801-A  
EFFECTIVITY: ALL

### 3. AVIONICS POWER DIODE BOX - INSTALLATION

#### A. General

(1) This task gives the procedures to install the avionics power diode box.

#### B. References

REFERENCE	DESIGNATION
AMM MPP 06-41-01/100	-
<a href="#">AMM TASK 20-40-01-860-801-A/200</a>	ENERGIZATION OF THE AIRCRAFT WITH AN EXTERNAL POWER SOURCE

#### C. Zones and Accesses

ZONE	PANEL/DOOR	LOCATION
123	123BL	Below the cockpit floor

#### D. Tools and Equipment

Not Applicable

#### E. Auxiliary Items

Not Applicable

#### F. Consumable Materials

Not Applicable

#### G. Expandable Parts

Not Applicable

#### H. Persons Recommended

QTY	FUNCTION	PLACE
1	Does the task	Below the cockpit floor

#### I. Installation (Figure 401)

##### *SUBTASK 420-002-A*

- (1) Remove the protection caps from the electrical connectors (4).
- (2) Put the avionics power diode box (1) on the base plate (5).
- (3) Tighten the screws (1) and washers (2) that attach the avionics power diode box (3) to the base plate (5).
- (4) Connect the electrical connectors (4).

J. Follow-on

SUBTASK 842-002-A

- (1) Close access door 123BL (AMM MPP 06-41-01/100).
- (2) Energize the aircraft with the External DC Power Supply ( [AMM TASK 20-40-01-860-801-A/200](#)).

**NOTE:** If the caution messages and/or the warning messages flash on the EICAS display, push the master caution and/or the master warning lighted pushbutton, on the pilot's or copilot's glareshield panel, to stop them.

- (3) Do the power diode box operational test as follows:
  - (a) Make sure that the BATT 1 and BATT 2 switches, on the electrical panel, on the overhead panel, are set to AUTO.
  - (b) On the overhead panel/electric panel, push the BACKUP pushbutton.
    - 1 The striped bar on the BACKUP pushbutton comes on.
    - 2 Make sure that all information shown on PFD 1 and 2 , MFD 1 and 2, and EICAS display stays visible.
  - (c) Push the BACKUP pushbutton
    - 1 The striped bar on the BACKUP pushbutton goes off.
  - (d) On the circuit breakers panel, open the DISPLAY circuit breaker (Location Tip: ESSENTIAL DC BUS 1/EICAS/DISPLAY).
    - 1 Make sure that the EICAS display stays on.
  - (e) On the circuit breakers panel, close the DISPLAY circuit breaker (Location Tip: ESSENTIAL DC BUS 1/EICAS/DISPLAY).
  - (f) On the circuit breakers panel, open the EICAS DAU 2A circuit breaker (Location Tip: ESSENTIAL DC BUS 2/EICAS/DAU 2A).
    - 1 Make sure that the engine 2 indications, on the EICAS display, stay on.
  - (g) On the circuit breakers panel, close the EICAS DAU 2A circuit breaker (Location Tip: ESSENTIAL DC BUS 2/EICAS/DAU 2A).
  - (h) On the circuit breakers panel, open the IC1 circuit breaker (Location Tip: ESSENTIAL DC BUS 1/NAV/IC 1).
    - 1 Make sure that the EICAS, PFD1 and MFD1 displays stay on.
  - (i) On the circuit breakers panel, close the IC1 circuit breaker (Location Tip: ESSENTIAL DC BUS 1/NAV/IC 1).
  - (j) On the circuit breakers panel, open the EICAS DAU 1A circuit breaker (Location Tip: ESSENTIAL DC BUS 1/EICAS/DAU 1A).
    - 1 Make sure that the engine 1 indications, on the EICAS display, stay on.

- (k) On the circuit breakers panel, close the EICAS DAU 1A circuit breaker (Location Tip: ESSENTIAL DC BUS 1/EICAS/DAU 1A).
- (4) De-energize the aircraft ( [AMM TASK 20-40-01-860-801-A/200](#)).

