PRINTED CIRCUIT BOARD - REMOVAL/INSTALLATION

1. **General**

   A. This section gives the removal/installation procedures for the printer circuit (PC) boards that are installed in the avionics J-box.

2. **Tools and Equipment**

   A. Tools and Equipment

   - None.

   B. Special Consumables

   - None.

   C. Reference Material

   - Chapter 6, Access Plates And Panels Identification - Description And Operation
   - Chapter 20, Electrical Bonding - Maintenance Practices
   - Chapter 20, Electrostatic Discharge Components - Maintenance Practices
   - Chapter 25, Flight Compartment - Maintenance Practices
   - Model 208 Wiring Diagram Manual.

3. **Setup**

   A. Prepare the Airplane

   (1) Put the EXTERNAL POWER switch to the OFF position.

   (2) Put the BATTERY switch to the OFF position.

   (3) Put the AVIONICS switches to the the OFF position.

   (4) Disconnect external electrical power from the airplane.

   (5) Disengage the circuit breaker(s) for the system the PC board you are replacing is integrated with. Refer to he Model 208 Wiring Diagram Manual.

   (6) To get access to the Avionics J-box:

   (a) Remove the copilots seat. Refer to Chapter 25, Flight Compartment - Maintenance Practices.

   (b) Remove access panel 232BR. Refer to Chapter 6, Access Plates And Panels Identification - Description And Operation.

4. **PC Board Removal**

   CAUTION: **Personnel must be grounded to the airplane before they remove or install PCB's which are clearly identified with the ESD sensitive marking. Use an approved wrist strap to be grounded to the airplane. Refer to Chapter 20, Electrostatic Discharge Components - Maintenance Practices. Assemblies that are removed must be put in ESD protected packages before personnel remove the ground. The PC board can be made unserviceable if these procedures are not followed.**

   A. Remove the PC Board (Refer to Figure 401).

   NOTE: **The removal procedures for each of the PC boards is typical.**

   (1) Remove the screws that attach the Avionics J-box assembly to the mount.

   (a) Remove the Avionics J-box from the rack.

   (2) Remove the J-box assembly cover from the J-box assembly.

   (3) Remove the screws and nuts that attach the PC Board, its electrical connector and the airplane wiring bundle electrical connector to the J-box section.

   (a) Carefully remove the applicable PC Board.

5. **PC Board Installation**

   A. Install the PC Board (Refer to Figure 401.

   NOTE: **The Installation I procedures for each of the PC boards is typical.**

   (1) Carefully install the PC board, electrical connector in its correct position in the Avionics J-box.

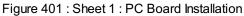   (a) Connect the airplane wiring bundle electrical connector to the PC board electrical connector.

(b)   Install the screws and nuts that attach the PC Board, its electrical connector and the airplane wiring bundle electrical connector to the J-box section.

   (2)   Install the J-box assembly cover to the J-box assembly.

   (3)   Put the Avionics J-box assembly in its correct position on the Avionics rack.

   (4)   Install the screws that attach the J-box assembly to the avionics rack.

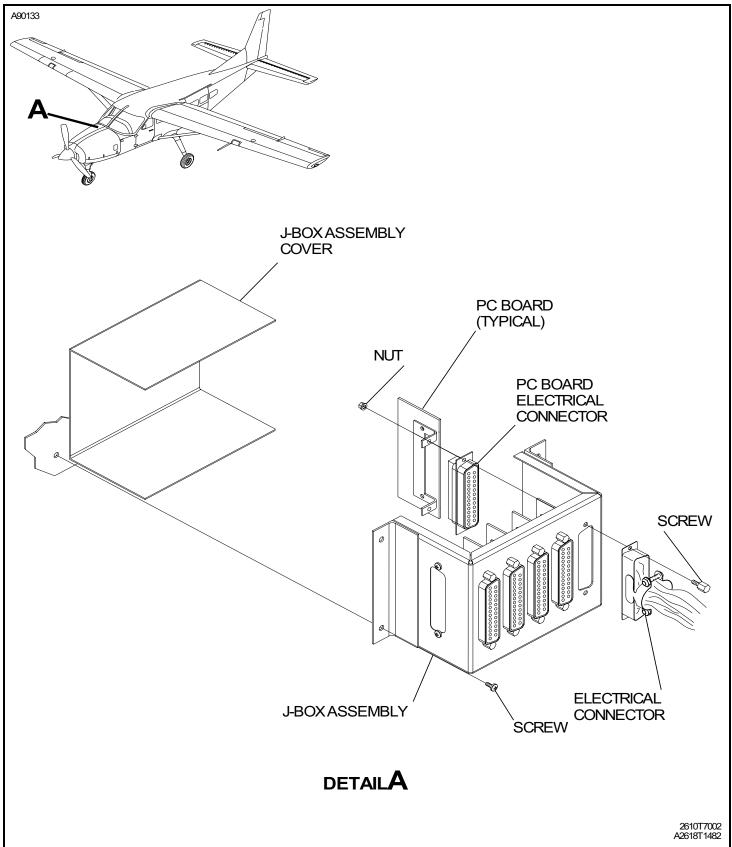   (5)   Engage the applicable system circuit breaker(s).

6.   PC Board Post-Maintenance Checks

A.   Do the PC Board Post-Maintenance Checks.

   (1)   Do a check of the system operation for which the PC board was replaced. Refer to the applicable adjustment/test section in the Model 208 Maintenance Manual.

7.   Closeout

A.   Put the Airplane Back to its Initial Condition.

   (1)   Install access panel 232BR. Refer to Chapter 6, Access Plates And Panels Identification - Description And Operation.

   (2)   Make sure there is correct electrical bonding of the antenna to the airplane. Refer to Chapter 20, Electrical Bonding - Maintenance Practices.

   (3)   Install the copilots seat. Refer to Chapter 25, Flight Compartment - Maintenance Practices.

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Figure 401 : Sheet 1 : PC Board Installation

A90133

J-BOX ASSEMBLY
COVER

PC BOARD
(TYPICAL)

NUT

PC BOARD
ELECTRICAL
CONNECTOR

SCREW

J-BOX ASSEMBLY

SCREW

ELECTRICAL
CONNECTOR

DETAIL A

2610T7002
A2618T1482