

BATTERY OVERHEAT WARNING - MAINTENANCE PRACTICES

1. General

- A. This section gives the removal and installation procedures for the battery temperature sensor. It also gives the test procedures for the sensor. For a general overview of the battery overheat warning system refer to Battery Overheat Warning - Description and Operation.
- B. When removing and installing the battery temperature sensor, the battery should be reconditioned. You can remove the temperature sensor after the battery has completed deep cycle.

2. Temperature Sensor Removal/Installation

- A. Remove Temperature Sensor (Refer to Figure 201).
 - (1) Remove battery cover and battery from airplane. Refer to Ni-Cad Battery - Removal/Installation.
 - (2) Recondition battery. Refer to Ni-Cad Battery - Adjustment/Test for reconditioning procedures.
 - (3) Remove center cells as required. Refer to Ni-Cad Battery - Removal/Installation.
 - (4) Remove battery temperature sensor electrical connector.
 - (5) Remove battery temperature sensor.
- B. Install Temperature Sensor (Refer to Figure 201).
 - (1) Install battery temperature sensor between battery cells.
 - (2) Install sensor and electrical connector.
 - (3) Install removed cells. Refer to Ni-Cad Battery - Removal/Installation.
 - (4) Install battery in airplane. Refer to Ni-Cad Battery - Removal/Installation.

3. Adjustment/Test

- A. Test Procedures (Airplanes 2080001 thru 20800499 and 208B0001 thru 208B1999)
 - (1) Set the battery switch to the ON position.
 - (2) Make sure that the ANNUNCIATOR PANEL circuit breaker is engaged.
 - (3) Push annunciator light test switch.
 - (a) Make sure that on the annunciator panel the amber BATTERY HOT and red BATTERY OVERHEAT lights come on.
 - (4) Release test switch.
 - (a) Make sure that the lights go off.
 - (5) Disconnect battery temperature sensor electrical connector from battery.
 - (a) Make sure that on the annunciator panel the amber BATTERY HOT and red BATTERY OVERHEAT lights come on.
 - (6) Connect battery temperature sensor electrical connector to battery.
 - (7) Turn battery switch to OFF position.
- B. Test Procedures (Airplanes 20800500 and On, and 208B2000 and On)
 - (1) Set the battery switch to the ON position.
 - (a) Make sure that the BATTERY OVHT and BATTERY HOT CAS messages do not show on the PFD's.
 - (2) Disconnect battery temperature sensor electrical connector from battery.
 - (a) Make sure that the BATTERY OVHT and BATTERY HOT CAS messages show on the PFD's.
 - (3) Connect battery temperature sensor electrical connector to battery.
 - (a) Make sure that the BATTERY OVHT and BATTERY HOT CAS messages do not show on the PFD's.
 - (4) Turn battery switch to OFF position.

Figure 201 : Sheet 1 : Temperature Sensor Installation

