



**Carrier**

A United Technologies Company

REPLACEMENT COMPONENTS DIVISION

# SERVICE BULLETIN

**SUBJECT:** Battery Replacement for PSIO/LID-1B

**NUMBER:** C9623

**DATE:** 7-31-96

**SUPERSEDES:**

**MODELS AFFECTED:** All Chillers with PIC Controls

**DATE:**

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## PURPOSE:

To inform the field of the diagnosis of the battery support system in PIC controls.

## BACKGROUND:

A portion of PIC control modules are designed with volatile memory, in particular the PSIO and LID-1B display. These devices contain software that is stored in RAM (Random Access Memory). For this reason, a battery is required to maintain power and retain software in memory.

A 3.6 volt AA Lithium battery (part#: CECO120803-01) is required for both the PSIO module and the LID-1B display. The nominal voltage is 3.6-3.7V which is maintained throughout most of its life. The power circuitry is designed such that the battery is always in the circuit. The drain on the battery does not depend on whether the module is receiving outside power.

## PROCEDURE:

Voltage drops rapidly when the battery is near the end of its life. The life expectancy is around four years. As part of the yearly maintenance schedule, check the voltage level on both the PSIO and LID-1B. If the battery voltage reads 3.5 volts or less the battery is approaching the end of its useful life and should be changed. The voltage should be measured with the battery in place inside the module. With the control power on, check the voltage level by placing one test lead on each pole of the battery. Replace the battery while power is applied to the module.

**CAUTION:** *Power must be applied to the PSIO and LID-1B when replacing the battery otherwise loss of software can occur. The only way to replace the software is to replace the PSIO module or LID-1B display.*