Tools Needed
You will need the following tools to perform the replacement procedure:

- 3mm Allen wrench

**CAUTION**
SFC MUST be **OFF** while connecting or removing charger from SFC or line power

Battery Pack Location
The battery pack is located behind the LCD display of the Smart Field Communicator and is accessed through a back panel. Two hex screws need to be removed to access the battery pack. Figure 1 shows the location of the battery pack and how it fits into the STS103.

Charging the batteries
The battery pack is charged by plugging the battery charger into an outlet and inserting the lead into the charging terminal of the STS103. The battery pack takes a minimum of 10 hours to charge and the STS103 may be used continuously for up to 24 hours before the battery pack needs recharging. A colon (:) will be in the middle of the top line on the LCD display when the battery pack needs charging.

STS103 charging terminal
The battery pack is charged through a battery charger that plugs into the charging terminal. The charger inputs 110 or 220 Vac 50/60 Hz and outputs 7 Vdc 180 mA to the NiCd battery pack. The connector of the battery charger is inserted into the charging terminal on left side of the STS103 by the ON/OFF switch.

Self-diagnostics
When the STS103 is turned on, it automatically runs diagnostics on its functions. Upon successful completion of the diagnostics, the message “PUT LOOP IN MAN” (analog communications) or “DE-XMTR PRESS ID” (digital communications) appears. If an error occurs, the message “CRITICAL STATUS” appears. Refer to 34-ST-11-14 for a description of the STS103 errors or the individual device sections for device specific error messages.