

***SPED BATTERY CHECK AND
BATTERY REPLACEMENT***

**FOR 96XX, MAKO AND SUPERSCRIP
TERMINALS**

VERSION 2

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SPED BATTERY CHECK

EQUIPMENT REQUIRED

1	DIGITAL VOLTMETER (OR MULTIMETER) WITH MEASURING LEADS.
1	MEDIUM PHILLIPS SCREWDRIVER (FOR MAKO SPED BATTERY CHECK).

WARNING!

TO AVOID DAMAGE: REMOVE POWER FROM THE TERMINAL BEFORE MEASURING THE SPED BATTERY VOLTAGE!

CHECKING THE 96XX SPED BATTERY

The battery is located on the SPED keypad board, which is located on the back of the Terminal front panel. Follow these steps to check the battery voltage:

1. Unlock and open the Top Enclosure of the Terminal. Turn off the AC power to the terminal by pushing the AC power switch on the Card Cage to the OFF (0) position.
2. The SPED keypad board is located just below the display mounting bracket on the back of the Front Panel. Locate the battery on the board, using Figure 1-1 as a guide.
3. Place the POSITIVE LEAD of the voltmeter on the battery holder clip. Place the NEGATIVE LEAD of the voltmeter on the screw head nearest the battery holder. See Figure 1-2.
4. Measure the voltage. If the voltage is less than 2.8 volts, the battery should be replaced. See the procedure, "Replacing the SPED Battery" on page 4 for details.
5. Turn on power to the Terminal by placing the power switch in the ON (I) position. Close and lock the Top Enclosure.

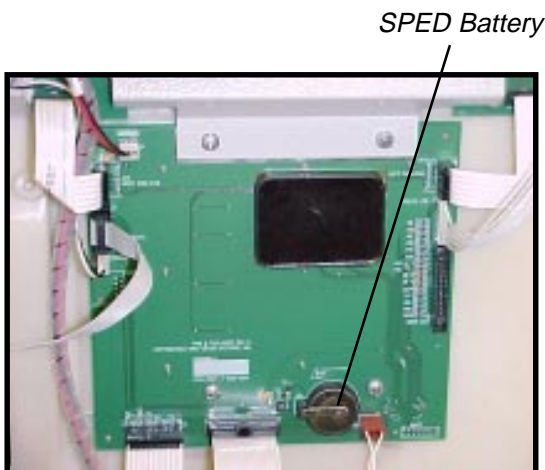


Figure 1-1. Battery Location.

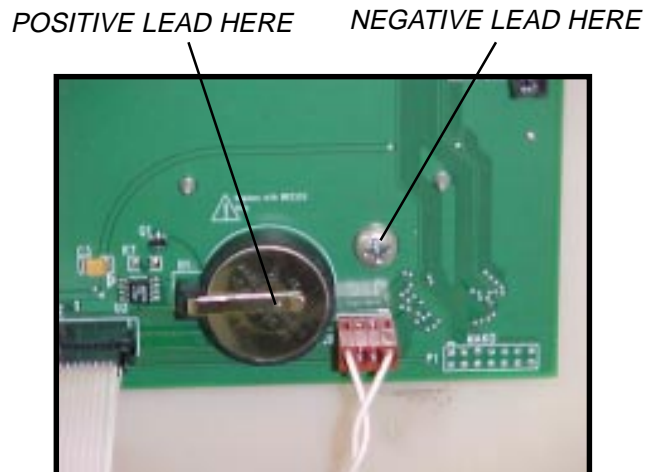


Figure 1-2. Placement of Battery Leads.

SPED BATTERY CHECK

CHECKING THE MAKO/SUPERSCRIP SPED BATTERY

On Mako and SuperScrip terminals the battery is located on the Main PC Board. To access it, the dust cover on the Main PC Board must be removed. Follow these steps to remove the dust cover:

1. Unlock and open the Top Enclosure of the Terminal. Turn off the AC power to the terminal by pushing the AC power switch on the Power Supply to the OFF (0) position.
2. Use a Phillips screwdriver to remove the four screws that secure the dust cover on top of the Main PC Board (see Figure 1). Carefully remove the Grounding Strap. Remove the dust cover.

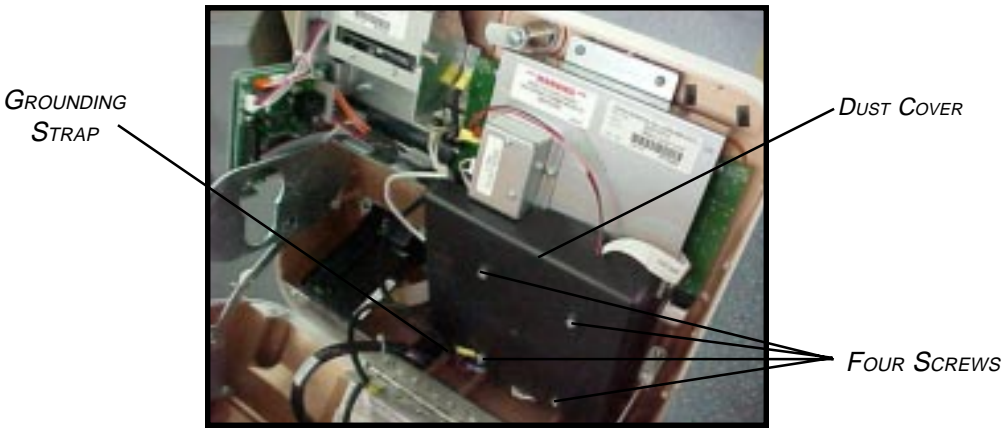
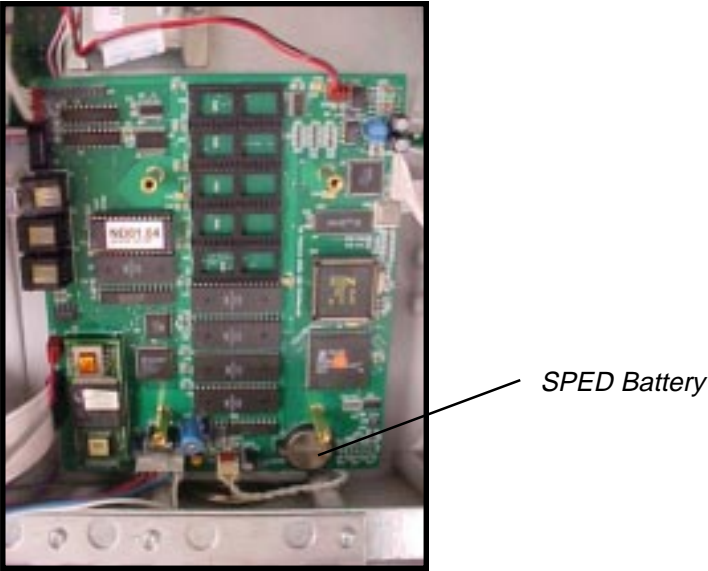


FIGURE 2-1.DUST COVER REMOVAL.

3. Locate the battery on the Main PC Board, using Figure 2-2 as a guide.

Figure 2-2. Battery Location.



SPED BATTERY CHECK

- Place the POSITIVE LEAD of the voltmeter on the battery holder clip. Place the NEGATIVE LEAD of the voltmeter on the standoff nut nearest the battery holder. See Figure 2-3.

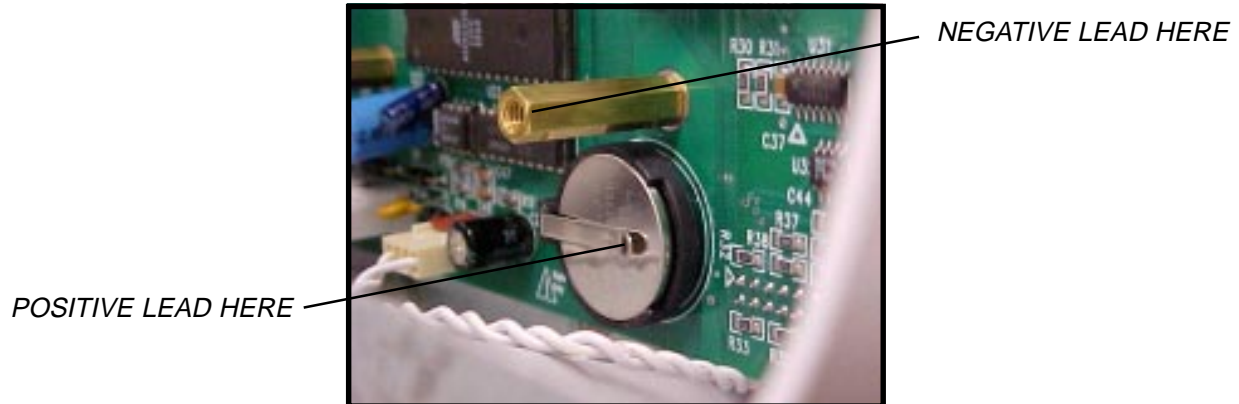


Figure 2-3. Placement of Battery Leads.

- Measure the voltage. If the voltage is less than 2.8 volts, the battery should be replaced. See the next procedure, "Replacing the SPED Battery" for details.
- Replace the dust cover and grounding strap and secure them using the four phillips screws removed in Step 2 of this procedure.
- Turn on power to the Terminal by placing the power switch in the ON (I) position. Close and lock the Top Enclosure.

REPLACING THE SPED BATTERY

IMPORTANT: TERMINAL ENCRYPTION KEYS MUST BE RELOADED AFTER BATTERY REPLACEMENT!
If a battery requires replacement, follow these steps to avoid damage to the SPED components:

- Use one of the previously described procedures (as applicable) to gain access to the SPED battery. **WITH POWER OFF**, release the old battery from the battery holder and discard properly.
- Place a slip of paper (to act as an insulator) between the battery holder and the battery holder clip.
- Place the new battery in the holder, POSITIVE (+) FACE UP, **MAKING SURE THE INSULATING SLIP REMAINS BETWEEN THE BATTERY HOLDER CLIP AND THE BATTERY!** The insulator will prevent the battery from supplying voltage to the circuit until the next step.
- Apply power to the terminal. On MAKO/SuperScrip units, ensure the grounding strap does not come into contact with the Main PC Board components while power is applied! **DO NOT REMOVE THE INSULATING SLIP UNTIL POWER HAS BEEN RESTORED TO THE TERMINAL AND THE AUDIBLE BEEP IS HEARD OR THE "PLEASE WAIT" SCREEN APPEARS!** At that time, remove the insulating paper slip.
- If this is a MAKO or SuperScrip terminal, turn off power to the terminal before replacing the dust cover and ground strap. Turn on power to the terminal. Close and lock the Top Enclosure.