MOTOR TESTS:

All motor tests (break-in and current test) now draw power from the power supply. This eliminates the need for a fully charged NiCd pack as previously required.

When setting up for the test, connect the nicad jacks and meter jacks to the motor terminals.
Note: Meter jacks are not necessary for the MOTOR BREAK-IN.

When using the SUPER TUNER, connect it as usual to the HI-IQ and motor; but also connect the nicad jacks to the motor.

IMPORTANT: The SUPER TUNER requires that a capacitor of at least 47 microfarads (25V) be connected across the motor terminals. Otherwise, unstable voltage readings will prevent proper motor timing (this is not required for the other tests).

MOTOR CURRENT TEST:

Entering the motor current test menu presents the following screen:

```
HOLD AT   5.00V
OK = 1 CHANGE = 2
```
Motor Voltage Selection

The voltage entered here will be applied to the motor during the current test.

If a SUPER TUNER is attached, select a voltage of at least 5.00V.

THERMAL CHARGING:

Thermal charges no longer cutoff at a certain temperature. Rather, the cutoff is determined by adding a temperature rise to the starting temperature of the pack. As a result, the following screen will appear when initiating a thermal charge:

```
STOP @ RISE = 20 C
OK = 1 CHANGE = 2
```
Thermal Charge Cutoff Selection

Enter the temperature that you want the battery to rise before stopping the charge. For example, if the battery's ambient temperature is 25C, entering a temperature rise of 20C will allow the battery to reach 45C before the charge is terminated.

This section describes the new changes made to the SUPER-IQ software.

REFLEX Charging:

In order to access the stock Lin-R-Flex charge, proceed as usual through the charge menu until the following screen appears:

```
PEAKED CHARGE = 1
THERMAL CHARGE = 2
```

Peak/Thermal Reflex Menu

Pressing 1 (PEAKED CHARGE) will execute the new "probeless" (non-thermal) reflex charge.

The second option (THERMAL CHARGE) results in the thermal cutoff reflex charge (as in previous software revisions).

The provision exists to change all peak charges into reflex charges.

Access this feature by entering the utilities menu:

```
DVM = 1 STOPWACH = 2
THERMOMETER = 3
REVIVAL/SHOCK = 4
BAUD RT SELECT = 5
OPTIONS MENU = 6
```

Utilities Menu

Press 6 to enter the options submenu. The following screen appears:

```
CHNG PEAK→FLEX = 1
```

Convert Peaks to Reflexes

By pressing 1 this screen will change to the following:

```
CHNG FLEX→PEAK = 1
```

Convert Reflexes to Peaks

At this point, all peak charge functions will be replaced with voltage reflex charges. For example, running a computer grading function will result in an initial discharge followed by a reflex charge, followed by a final discharge.

Pressing 1 again will return the screen to the previous setting and all peak charges will default to non-reflex (normal) operation.