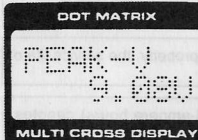


2-3. Nicad Peak Voltage Screen



- This screen first appears 100 seconds after the start of charging.
- During charging, the highest nicad pin voltage detected up to that point is displayed. After charging is completed to the delta peak, the auto cutoff function will be activated and displayed. (These values are reset the next time charging is started.)

*The peak voltage value becomes high in the following circumstances. Use these as guidelines regarding nicad battery deterioration an internal resistance.

1. When the charging current is high compared with other packs of the same type.
2. When the battery's internal resistance is high.
3. When the battery is charged once and is then charged again without being used in the meantime.
4. As the battery deteriorates (while the charging current remains the same).

2-4. Source Power Supply Screen



- This screen displays the voltage of the source power supply. This information can be used to check the load condition, etc., of the source power supply.

2-5. Connector Leads/Condition Monitor

- It is extremely important to note if the question mark ("?") indicator appears during or after charging. This mark appears if a major voltage fluctuation occurs, caused perhaps by a poor contact in the connector or deterioration of the nicad battery. There is a possibility of a bad contact in either the connector or in the output terminals. Check all contacts.



Note: Because Kondo's Hydropack is a customized nickel-hydrate battery, the question mark indicator may appear even when there is no problem.

Note: The question mark indicator also appears if the charging current is set too high for a nicad battery that is not suited to rapid charging.

3. Determining the Charging Current (Important!)

- The rapid charging current that is suitable for a nicad battery differs for each type of battery. If the current setting is too high for a given battery, not only will the battery be harmed, but there is also a danger of leakage or explosion. Be certain to set the charging current at the value indicated in the instructions provided with the nicad battery.
- If you are not certain about what setting is appropriate, contact your dealer. Kondo cannot answer any inquiries concerning any batteries other than the ones that it sells.

4. Charging Procedure

1

Connect the charger's red alligator clip to the positive (+) power supply terminal, and the black alligator clip to the negative (-) power supply terminal. Make certain that the connections are not reversed.

Some sparking when the connections are made is normal.

2

Connect the red solder-plated lead of the nicad battery charging connector to the positive (+) output terminal and the black solder-plated lead to the negative (-) terminal. Make certain that the connections are not reversed.

The nicad battery must not be connected when performing this step. A short circuit could be dangerous.

3

Turn the charging current adjustment control all of the way to the left, and then connect the nicad battery to the charging connector.

4

When the start button is pressed, the charging monitor lamp changes from green to red and charging starts.

5

Slowly turn the charging current adjustment knob to set the proper charging current.

It is not necessary to set the number of cells.

6

While charging is in progress the Select button can be used to change the display screens.

7

When charging is complete, the buzzer sounds.

After charging is completed, disconnect the nicad battery from the charger. Do not leave the fully charged battery connected to the charger.

5. Observe the following points in order to get the best performance from the charger.

- The lead wires connected to the output terminals must be solder-plated. If they are not soldered, poor contact may result.
- If the current adjustment control is turned once charging has started, the charging operation may be cut off.
- One of the characteristics of LCDs in general is that their intensity changes with the temperature. If the LCD is exposed to high temperatures for an extended period of time, it will no longer be readable, but once the temperature is lowered, the display will function normally once again.
- Do not connect two or more nicad battery packs to the output terminals at one time. Only one pack can be charged at one time.
- If a battery is fully discharged, charging might start even if the polarity of the connections is reversed. Check the polarity very carefully when connecting a nicad battery for charging.
- Use only equipment from reputable manufacturers for the stabilized power supply. Using low-quality equipment with a high level of ripple noise or a car battery charger can damage this charger.
- Only connect a specially designed connector to the expansion terminal on the rear of the charger. Do not insert any other object. A metal object in particular could cause a short circuit and damage the charger.
- A 24V battery (source power supply) can be used if the terminal voltage is 25V or less. If the voltage is higher after the battery is in operation or after charging, it cannot be used.
- If a strong source of radio waves is located near this charger during charging, the charger may operate incorrectly.