

MILLENNIUM^{PRO}



NOVAK
Racing Electronics

OPERATION MANUAL

IMPORTANT PRECAUTIONS

- The following precautions will help to prevent possible damage to the Millennium Pro, the battery pack, or the input power source.
- **Charge only nickel-cadmium or nickel-metal hydride rechargeable battery packs.**—Damage will occur from charging other battery types (lead-acid, NiMH, etc.).
 - **Never allow water, moisture, or other foreign materials to enter Millennium Pro.**
 - **Do not use automobile battery chargers to power the Millennium Pro.**—False peaks can occur, and excessive voltage spikes can damage the Millennium Pro.
 - **Do not obstruct the air intake on the bottom of the Millennium Pro.**—This will cause overheating and thermal shut down. Be careful if putting Millennium Pro on a pit towel.
 - **Do not charge batteries with fewer than 4 or more than 8 cells—connected in series.**
 - **Do not charge battery packs connected in parallel.**—Batteries will be damaged.
 - **Enhanced voltage ("boost") batteries charge erratically.**—Consult the battery matching company for charging recommendations.
 - **Excessive charge current can damage batteries.**—Follow battery maker recommendations.
 - **Never exceed 35 volts DC input power source to power the Millennium Pro.**
 - **Gases from a lead-acid battery may ignite if sparks occur when connecting or disconnecting the Millennium's alligator clips.**—Using a lead-acid battery as a power source may generate hydrogen gas and should only be used in a well ventilated area. Avoid open flames and sparks which may ignite battery gases.

PLEASE FOLLOW ALL INSTRUCTIONS CAREFULLY

INPUT POWER SOURCE VOLTAGE & CONNECTION

Input power source voltage should be 1.5 volts DC above peak-voltage of the battery.
Example 1: (6 cell Ni-Cd pack peak-voltage: 10.5 volts) + (1.5 volts) = 12 volts DC
Example 2: (8 cell NiMH pack peak-voltage: 11.5 volts) + (1.5 volts) = 13 volts DC
Remember that older battery packs are higher voltages.

If power source's voltage is not high enough to peak battery, charge 4 cell packs in two, 4 cell packs.
Input power source connection on the Millennium Pro is located on the lower corner of the back of the case. The supplied power harness has a matching connector attached to it, and will plug directly to the panel-mounted connector on the back of the Millennium Pro. When looking at the input power connector, the pin marked with a raised rib in the plastic is the positive (+) connection as shown below.



Acceptable input power sources: DC power supply* or lead-acid battery**

*Output current of power source should meet/exceed desired charge rate.
 **Connect input power harness to lead-acid battery before connecting harness to Millennium Pro.
 If using Millennium Pro with power supply, cut wires of included input power harness to the desired length and secure them to the output terminal screws of the power supply.
 If your power supply has post-style output terminals, or if using Millennium Pro with a lead-acid battery, you can solder the included alligator clips to the input power harness. Solder the red alligator clip to the wire that goes to the Millennium Pro's positive (+) pin (rib in plastic of connector). Solder the black alligator clip to other wire.

MAIN SELECTION MENUS

The MAIN MENU screens are the first level of navigation in the Millennium Pro. The available screens are shown here. In each of the MAIN MENU screens the top line of the LCD displays the available button choices. ENTER and the up () and down () arrows to prompt you to use one of these keys to continue navigation.

The bottom line displays your current software location. To go the second level of the Millennium's software, simply push the ENTER button at any of the MAIN MENU screens.

When in the Start menu screen, the display will alternate between the Start option and Active Profile screen which shows the active Charge Profile (current level) and the profile's stored settings (the top line shows charge mode, # of cells, & current).

The Start option begins the charge process, while the other options take you to the next software level where you can change charge modes, alter various other parameters, **SETTINGS:** At the Start option screen, pressing the BACK button takes you directly to the Activate Profile Screen so let you quickly change the Active Profile.

ENTER Start
ENTER Profile Select
ENTER Edit Charge
ENTER Delayed Charge
ENTER Last Charge Info
ENTER Settings
ENTER Pit Wizard

THE MILLENNIUM PRO

The Millennium Pro takes the dependability of the original Millennium charger to new levels for even better battery performance, new or old. Watch larger Backlit display, battery conditioning, and charge history, you get vital information that is easy to comprehend. The Millennium Pro is equipped with **Ni-Cd Linear Mode** for all Ni-Cd cells, **Ni-Cd Reverse Pulse Mode** for Ni-Cd cells, and the new **NOVAK NiMH2 Mode** for the ultimate charge of all sizes of Ni-MH cells. All modes have easy to understand user-adjustable charge parameters.

SPECIFICATIONS:

Case Size	6.00" x 4.38" x 2.33" (16.14 x 11.2 x 5.92 cm)
Weight	14.2 ounces (400 grams)
Input Voltage (Power Source)	5.2-35 volts DC
Charging Mode	Ni-Cd Linear; Ni-Cd • Ni-Cd Rev.Pulse; Ni-Cd • Ni-MH2; Ni-MH2
Charging Capability	4-8 cells (1.2 IDC/usb)
Ni-Cd Charge Rate (Linear & Reverse Pulse)	0.5-7.0 amps (adjustable)
Trickle Charge Rate (Linear pulse)	0.1-0.4 amps (adjustable)
Reverse Pulse Duration (Reverse Pulse)	5-20 milliseconds
Ni-MH Charge Rate	0.5-7.0 amps (adjustable)
Circuit Protection	Input & Output BIP/Short-Circuits, Shorted Batteries, Thermal Overload

PROFILE SELECT OPTION

ENTER Profile Select

The Millennium Pro has the ability to store five custom charge profiles in the software's memory, and to quickly change the active profile and begin charging. Follow the steps below to navigate through the software's menu option and change the active profile. For each screen displayed, follow the given button inputs as shown.

DISPLAY		BUTTON
ENTER Start	Press down () or up () arrows to scroll to Profile Menu screen.	or
ENTER Profile Select	Press ENTER to go to Activate Profile screen.	ENTER
Activate Profile 1 of 5 PROFILE1	Press down () or up () arrows to change the active charge profile. (Screen position & profile name displayed) Then press ENTER to activate profile and jump back to Start screen.	or

EDIT CHARGE OPTION

ENTER Edit Charge

The Millennium Pro is equipped with three charge modes: **Ni-Cd Rev.Pulse** (arger Ni-Cd cells), **Ni-Cd Linear** (all uses Ni-Cd), & **NOVAK NiMH2** (all uses Ni-MH cells). Each charge mode has various user-adjustable settings. To customize and activate the desired charge mode, follow the steps below to navigate through the Edit Charge sub-menu.

DISPLAY		BUTTON
ENTER Start	Press down () or up () arrows to scroll to Edit Charge option screen.	or
ENTER Edit Charge	Press ENTER to go to Charge Mode screen.	ENTER
CHARGE MODE XXXX XXXXX	Press down () or up () arrows to change the undisplayed parameter. (Parameterized Rev.Pulse/Linear/Linear)	or
CHARGE MODE NiCd Linear	Press ENTER to activate charge mode and move to next screen.	ENTER
Cells Current(A) 6 4.5	Press down () or up () arrows to change the undisplayed parameter. Press ENTER to move to next parameter.	or
Trickle Charge Off 0.2A	Press down () or up () arrows to change the undisplayed parameter. Press ENTER to move to next parameter.	or
SELECT MENU Volt Threshold	Press ENTER to move to next screen.	ENTER
/Cell 14mV /Pack 84mV	Press down () or up () arrows to change the undisplayed parameter. Press ENTER to move to next screen.	or
ENTER to Save to Cancel	Press ENTER to save changes (or to cancel) and jump back to Start screen.	ENTER
CHARGE MODE NiCd Rev Pulse	Press ENTER to activate charge mode and move to next screen.	ENTER
Cells Amps Pulse 6 4.5 12ms	Press down () or up () arrows to change the undisplayed parameter. Press ENTER to move to next parameter.	or
SELECT MENU Volt Threshold	Press ENTER to move to next screen.	ENTER
/Cell 14mV /Pack 84mV	Press down () or up () arrows to change the undisplayed parameter. Press ENTER to move to next screen.	or
ENTER to Save to Cancel	Press ENTER to save changes (or to cancel) and jump back to Start screen.	ENTER
CHARGE MODE NOVAK NiMH2	Press ENTER to activate charge mode and move to next screen.	ENTER
Cells Current(A) 6 4.0	Press down () or up () arrows to change the undisplayed parameter. Press ENTER to move to next parameter.	or
ENTER to Save to Cancel	Press ENTER to save changes (or to cancel) and jump back to Start screen.	ENTER

Novak Millenium Charger Manual

Jicheng Xie



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