



20 AMP DISCHARGER

FEATURES

- Discharges 1 to 6-cells
- For NiCd and NiMH sub-C size batteries
- Individual cell discharging technology
- Built-in cooling fan
- Status light indicates individual cell condition
- Discharges each cell at 20 amps

SPECIFICATIONS

Input Power: 7.2V to 12V DC
 Suitable Battery: 1 to 6 sub-C cells
 Discharge Current: 20A

IMPORTANT PRECAUTIONS

- Keep out of reach of children.
- Never allow water, moisture, or any foreign material inside the case of the discharger.
- Never attempt to discharge more than 6 cells with the discharger.
- Do not touch the discharge resistors during use as they can become very hot.
- Do not leave the discharger unattended while in use.
- **Always remove the batteries from the discharger as soon as the lights go out.**
- Keep and use the discharger and batteries in a cool, dry place away from direct sunlight.
- Do not put any materials such as clothes, chemicals, flammable liquid or flammable materials within close proximity of the discharger while in use. Place the unit in an area which will allow adequate heat ventilation for cooling.
- **Do not attempt to discharge cell types other than NiCd or NiMH.** Do not attempt to discharge cells which are smaller in size than sub-C, as it will likely cause the cells to overheat and cause permanent damage.
- Do not attempt to discharge a battery when it is still warm or hot. Allow it to cool down to ambient temperature before starting discharge.
- Read and understand the discharge information provided by the battery's manufacturer before use.

DISCHARGING GUIDELINES

Nickel-Cadmium: To keep NiCd type cells in top condition, after each race, discharge them until the lights on the discharger go out. Remove and store them until you are ready to use again. Charge the cells right before each race.

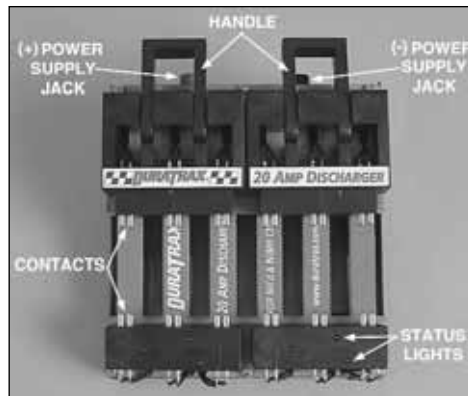
Nickel-Metal Hydride: To keep NiMH type cells in top condition, discharge them until the lights on the discharger go out. In general, a NiMH cell can be recharged 2-3 times a day with good results, but the cells must cool before recharging.

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OPERATING INSTRUCTIONS

1. Check that the surrounding area will provide enough airflow for cooling by the built-in fan. If additional cooling is necessary, connect a 7.2V to 12V DC power source to the external power supply jacks (red=pos, black=neg) located on the back of the discharger.
2. Pull the handles up to open the dischargers contacts, insert the cells, and close the handles to lock the cells into place.
3. When each cell is properly installed, the respective light will illuminate indicating that discharge is in progress.
4. Once the status lights on each cell have gone out, remove the cells from the discharger. The cell voltage will be approximately 0.85V.

Caution: Do not leave the cells on the unit for extended periods as this will discharge the cells to 0V. Doing this may permanently damage the cells, making them unusable.



TROUBLESHOOTING GUIDE

Problem: Cells are installed but the lights do not illuminate.

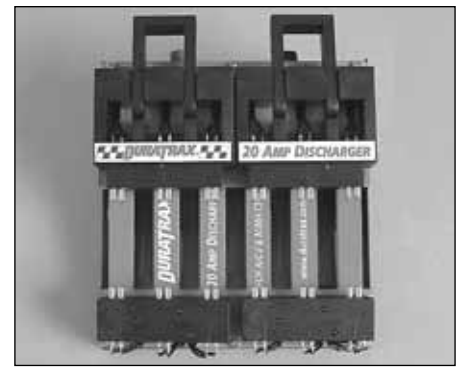
1. Cells are already discharged.
2. Cells are not installed properly.
3. Internal damage. Unit may require service, see **"Service Procedures."**

Problem: Discharger becomes very hot during operation.

1. Internal fan is functioning, but discharger may not be located in a place which provides adequate ventilation. Clear ample space for discharger to ventilate.
2. Internal fan may require additional help from external 7.2V to 12V power source.
3. Internal fan is not functioning and may require service. See **"Service Procedures."**

SERVICE PROCEDURES

Note: Dischargers that operate normally when received will be charged a minimum service fee and



return shipping charges. Before sending your discharger in for service, it is important that you review the **"Troubleshooting Guide"** in this instruction sheet. The discharger may appear to have failed when other problems exist in the system.

Hobby dealers are not authorized to replace dischargers thought to be defective.

1-YEAR LIMITED WARRANTY

U.S. AND CANADA ONLY

DuraTrax® warrants this product to be free from defects in materials and workmanship for a period of 1 year from the date of purchase. During that period, we will repair or replace, at our option, any product that does not meet these standards. You will be required to provide proof of purchase date (receipt or invoice).

If, during the 1-year period, your DuraTrax product shows defects caused by abuse, misuse, or accident, it will be repaired or replaced at our option, at a service charge not greater than 50% of the current retail list price. Be sure to include your daytime telephone number in case we need to contact you about your repair.

This warranty does not cover components worn by use, application of reverse voltage, cross connections, poor installation, subjection of components to foreign materials, any alterations to wires, or tampering. In no case shall our liability exceed the original cost of the product.

Your warranty is voided if...

- A. Any wires are allowed to become frayed which could cause a short.
- B. The discharger is subjected to improper voltage on the inputs.
- C. Tampering of any electronic components or circuitry is attempted.
- D. Water, moisture, or any other foreign material is allowed inside the discharger.
- E. Too much pressure is applied when closing the handles on the discharger.

Under no circumstances will the purchaser be entitled to consequential or incidental damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. If you attempt to disassemble or repair this unit yourself it may void the warranty.

For service to your DuraTrax product, either in or out of warranty, send it post paid and insured to:

HOBBY SERVICES

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 (217) 398-0007

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 Internet Address: www.duratrax.com