



Universal Digital Charger UDC-10 INSTRUCTION MANUAL

1. Battery type and function data

- 1.1 Battery type: Ni-Cd, Ni-Mh, Pb, Li-Ion, Li-Po.
- 1.2 Battery cell number: Ni-Cd / Ni-Mh 1-14 cells; Pb 12volt; Li-Ion / Li-Po 1-5 cells.
- 1.3 Function: charge, discharge and cycle.
- 1.4 Charge current: 100mA-4000mA, change increment rate 20mA.
- 1.5 Discharge current: 100mA-1000mA, change increment rate 10mA.
- 1.6 Cycling times: 1-100 cycles optional.

2. Button functions

- 2.1 " Battery / Type " : Press the button to scroll through the functions. The selection will flash. Check each function carefully and be sure it is correctly selected for the battery type you are charging.
- 2.2 " < - " : Pressing this button will decrease the flashing values.
- 2.3 " + > " : Pressing this button will increase the flashing values.
- 2.4 C > D shows cycle sequence starts with charge and ends with discharge.
- 2.5 D > C shows cycle sequence starts with discharge and ends with charge.
- 2.6 " Start / Stop Enter " : Press the button to finish changing the value or to start or stop charging or discharging.

3. Charge

- 3.1 Holding " Start / Stop Enter " button pressed in for about 1.5 seconds, the buzzer makes a short sound, the charger starts to check the battery connection.
- 3.2 If the battery connection is correct the charge will turn to charging state, otherwise it will show the error messages it found: " NO BATTERY CONN. OR BATT. REVERSE " or " BATTERY OVER VOLTAGE " .
- 3.3 For a battery which has been unused for some time and with low voltage or voltage which cannot be reached after 3 minutes, the charger will show the message " BATTERY DAMAGE " . If the battery voltage can not reach the basic voltage, the charger will try to restore it by charging with a very weak current (but not lower than 100mA) in 3 minutes.
- 3.4 During the charging, the LCD screen will display the current (+ for charge and – for discharge), time, voltage and the finished capacity.
- 3.5 When the charging ends, the buzzer will make short sounds and the display will show the message " END " .
- 3.6 Note: when charging, you can not select the battery type and function data.

4. Messages

- 4.1 When the charger is in free state, press the " Battery / Type " , the display will show the message of current connecting input power voltage and battery voltage etc.



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5. Safety notes

- 5.1 Read the instructions before using the charger for the first time.
- 5.2 Do not connect charger and battery with reverse polarity.
- 5.3 Do not leave the charger operating unsupervised.
- 5.4 Be careful to avoid touching the hot charger after long time charging. Put the charger in open place for radiating the heat into the air and do not cover the charger.
- 5.5 Keep the charger, battery and cables well away from flammable or temperature-sensitive objects.
- 5.6 Protect the charger from moisture.
- 5.7 We would highly recommend the use of the CORE R/C Charging Pouch.

Repair and Warranty

All products from CORE R/C are manufactured to the highest quality standards. CORE R/C guarantees this product to be free from defects in materials or workmanship for 30 days from the original purchase date verified by a sales receipt. This limited warranty does not cover defects, which are a result of normal wear, misuse or improper maintenance. This applies among other things on:

- Cut off/changed original input, and/or output wires.
- Mechanical damage of the case.
- Humidity/Water inside the case.
- Mechanical damage of electronic components/PCB.
- Solder on the PCB.

By sending in this product, you assign CORE R/C to repair the product. The original sales receipt must be included or no warranty can be granted. As we have no control over the use of this product we cannot accept any liability for any damages resulting from using this product. Therefore using this product is at the owners' risk. The limited warranty liability shall be limited to repairing the unit to its original specifications. In no case shall the liability exceed the original cost of the unit. By using this product the user accepts all resulting liability.

All specifications should be seen as guide values. Due to ongoing technical improvements, which are done in the interest of the product. CORE R/C accepts no responsibility for the accuracy of these specifications.

Exclusively distributed by:
Schumacher Racing Products Ltd.
71-73 Tenter Road
Moulton Park
Northampton
NN3 6AX
United Kingdom
T: +44(0) 1604 790770
F: +44(0) 1604 790209
E: sales@racing-cars.com