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## Nitech X-Cell Rechargeable Torch



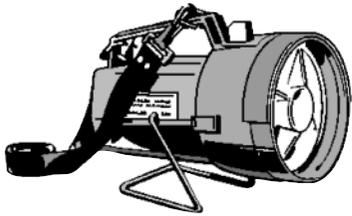
**Code: 53600 - 53601**

## Operating Instructions

# Nitech X-Cell Rechargeable Torch

## Operating Instructions

Codes: 53600 & 53601



The Nitech X-Cell Torch is a handheld rechargeable unit with Nickel Cadmium power pack and inbuilt charger. It requires only the two leads supplied for recharging.

### Warning

NEVER USE THE RED LEAD FOR MAINS POWER CHARGING.  
NEVER TOUCH TOGETHER THE WIRES OR TERMINALS INSIDE THE TORCH - TAKE PARTICULAR CARE DURING BATTERY AND BULB CHANGING OR MAINTENANCE.

### Mains Charging

Remove the black bung at the rear of the torch and plug the 'figure 8' connector of the black lead into the exposed socket. Connect to the mains socket.

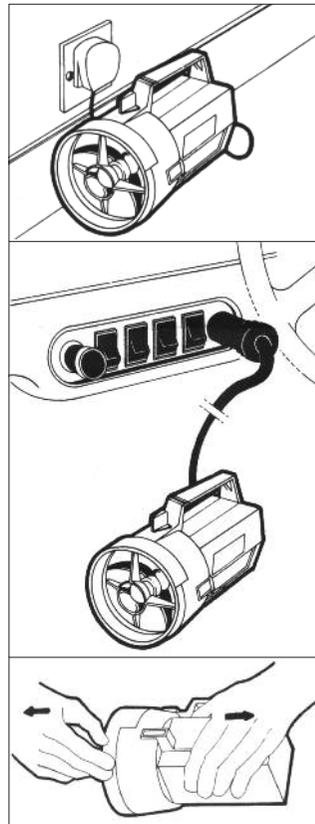
### Low Voltage (Car Battery) Charging

In order to recharge the X-Cell from a car battery, or similar supply of low voltage, the power pack and socket must be realigned.

1. Remove the lens unit with a sharp tug.
2. Squeeze the white tabs on the plate, to free the power pack connector and lift out.
3. Lift the X-Cell out, rotate it through 180° until the round socket lines up with the access hole in the rear of the torch. Settle it back in, checking that the socket still lines up.
4. Replace the connection plate (rotate it through 180° so that the connections and springs line up again) making sure that it engages securely under the retaining screws.
5. Clip the lens unit into place.

Fit a suitable cigar lighter socket plug, crocodile clips or alternative connector to the bare ends of the red cable. It is recommended that you choose the most appropriate for your vehicle or portable power supply, such as the PowerAce Portable Power System (code 54200).

As with the mains connector, the red low voltage connector can be wired either way round, and if using crocodile clips for a car battery, either clip can go on either terminal; the X-Cell will charge regardless of polarity.



### General Points on Charging

ALWAYS switch the torch OFF before charging - it will not charge if on!

NB: no damage will be done if it is inadvertently left on.

From flat, the X-Cell 4 hour (code 53600) requires approximately 14 hours charge, whether mains or battery, and the X-Cell 8 hour (code 53601) requires around 16 to 18 hours.

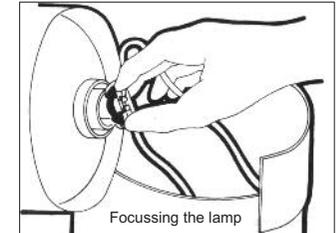
If recharging from mains, ensure that the torch is dry before connecting.

The X-Cell will not be harmed if left charging for an extended period, and will not be damaged if left discharged.

For maximum economy and longest life, maintain a charge - discharge cycle, charging the torch overnight when it starts to dim. Avoid recharging after every use unless necessary, and allow about 4 to 5 hours charging for each hour's use with the 4 hour X-Cell (2 to 3 hours for the 8 hour unit).

### Focussing the Beam

1. Remove the lens unit with a sharp tug.
2. Shining the light on an object around 10 metres (20 feet) away, carefully rotate the bulb holder in the back of the lens unit until the desired focus is obtained. BE CAREFUL NOT TO PRESS THE BRASS BULB CONTACTS TOGETHER.
3. Replace the lens unit.



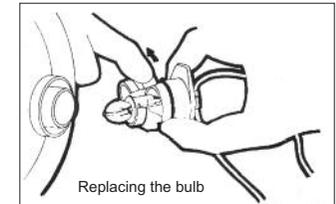
### Bulb Changing

The Nitech X-Cell torches use a special halogen bulb (code 53616) to obtain the best operating results. If you require an extra high power output, the Nitech 500 bulb (code 53617) will give double the light output for around 60% normal operating time. These bulbs require NO SPECIAL HANDLING.

In the unlikely event of the bulbs being unavailable, a standard prefocused 4.8 volt 0.5 amp torch bulb can be used. *Performance will be reduced.*

To change the bulb:

1. Ensure that torch is switched off.
2. Remove the lens unit with a sharp tug.
3. Rotate the bulb holder in the back of the lens unit by approximately 1/4 turn anti-clockwise.
4. Gently pull the holder away from its seat (twist a fraction if it resists, to ensure that the holder is free of its seating).
5. Lift the hinged flap away from the bulb, discard the old one and replace with the new. Snap the flap down, turning the bulb slightly to ensure that a centred location is secured.
6. Refit the holder to the lens unit, gently locate slot in holder with the peg in the unit, and focus the bulb as required. Fit the lens unit onto the torch body.

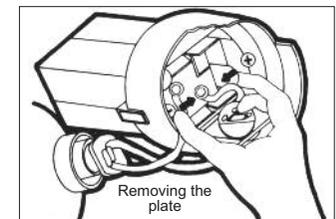


CAUTION: NEVER TOUCH THE TERMINALS OR WIRES TOGETHER INSIDE THE TORCH. If this happens, an automatic protection device emits a clicking sound, reminding you to remove the short immediately.

### Battery Replacement

The Nitech X-Cell torches use special batteries, available as spares from York Survey Supply Centre, codes 53610 (4 hour) and 53611 (8 hour).

To replace the battery, follow the instructions for setting up the Low Voltage Charger, swapping battery and adjusting charger setting as required.



### Repairs

These torches are virtually indestructible. In the unlikely event of malfunction, please return to York Survey Supply Centre for repair.

### Spares and Accessories

All spares and accessories for the Nitech torches are available from York Survey Supply Centre, as is the PowerAce Portable Power System, an alternative source for recharging in the field.

York Survey Supply Centre stocks a range of lamps & torches from weatherproof lamps to 500,000 candlepower spot lamps. For any of these, please call for details.