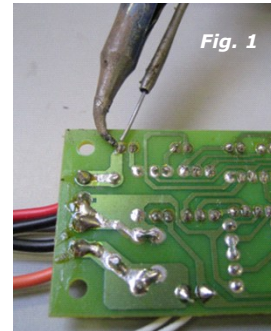**Portable Power**

Circuit Board Repairs

Fig. 1

Fault 1.   **The Charging Light flickers, or fails to light.**

Clean the connections on the charger lead plug and socket. If this does not cure the problem, dismantle the *Pack* and Check the rear of the circuit board for a dry joint on the LED connections and re-solder them if necessary *(Fig. 1)*.

Fault 2. **The internal fuse of the charger blows again after renewal.**

<u>Note</u> : This is usually the diode on the circuit board and is quite easily remedied.


Z2 Diode Location   *Fig. 2*

1. Dismantle the *Pack* and remove the battery.
2. Remove the 2 screws that hold the circuit board in place.
3. Turn the board over and disconnect the component marked **Z2** *(Fig. 2)* by unsoldering it, or cutting it off the board.
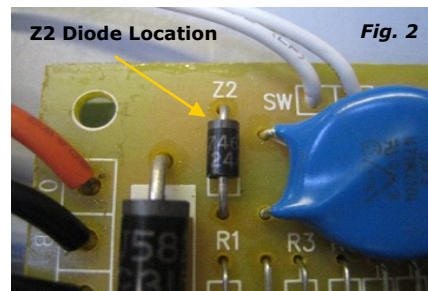
Fig.3

4. Whilst the board is removed, visibly check that the tracking has not blown at the point illustrated in *(Fig. 3)*.

 If it has, then bridge the gap with solder, as shown.

It may be necessary to repair the charger again if this fault has blown the internal fuse (*See Service Sheet No.2*).
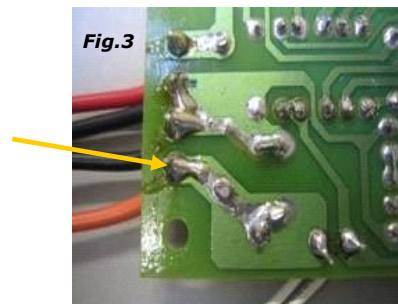
Before re-installing the battery:-

1. Connect the Charger to the *Pack*. The Charging Light should come on and stay on.
2. Operate the Test switch. All lights should now come on.
3. Rebuild the *Pack.*

Portable Power

Circuit Board Repairs

Fault 3. **The Lights do not come on after pressing the Test switch.**

Fig. 4

The easiest way to verify this is with the battery removed.

1. Connect the charger.
2. Follow the wires from the switch to the circuit board.
3. Carefully short-out the end of the wire connections on the circuit board as shown in *(Fig. 4)*.

   All lights should now come on.
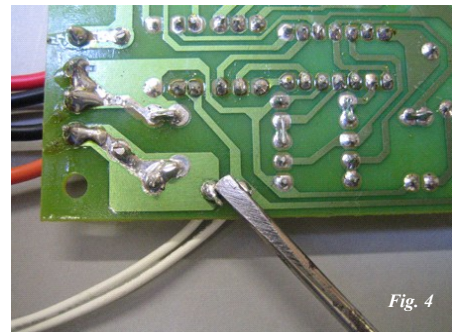
If the lights come on, then the test switch must be faulty. To change this switch.
(*See Service Sheet No. 4*)