

## HT90/S 90v Converter description and Instructions

The HT90/S is intended to replace the now obsolete 90v batteries by producing 90v from 4 AA rechargeable or 6v accumulator cells. Supplied in PCB form its small size enable it and its batteries to be installed in the space that was taken by a small 90v battery such as B126 found in most of the suitcase style radio's.

### FEATURES

Battery voltages of 4.8v to 6v.

90v output. Loading up to 12mA

Filament current sensing. Converter turns itself on when radio switch is on.

LED to show when the high voltage is on.

Low battery voltage shutdown to overcome cell reversal (4v threshold).

HT output short circuit protected.

HT output isolated from inputs.

### INSTALLATION PROCEDURE.

The HT unit should be installed by persons competent with high voltage assemblies. This unit develops voltages deemed to be hazardous to health. The manufacturer will not accept liability for personal injury or damage to equipment or property.

Study the wiring diagram before commencing. Read right through before making any connections. Do not connect the LT battery across the sense terminals Pin3 and Pin4 or connect unit to a DC supply greater than 7v.

Connections to the input supply battery must be made last.

HT voltage will remain for some time after switch off through capacitor storage. Disconnect the input supply and leave the unit for two minutes before handling.

The LED lit indicates that HT output is on.

Connect the radio HT wires to the unit HT output first. Pin 1 HT - and Pin 2 HT+.

Disconnect the radio LT + wire from the battery and connect it instead to Pin 3 on the converter.

Take a wire from the positive + of the LT battery to Pin 4.

Connect the battery power input to the pins as shown via a 1A fuse + to Pin6 and - to Pin5.

A good quality switch can also be fitted here. Alternatively the fuse or one battery cell could be removed to disable the HT. This is advisable due to a small discharge current when the radio switch is off with the HT unit in standby mode.

Double check all connections before lastly connecting the battery supply making sure it also is connected in the correct polarity.

Turn on the radio and see that the LED comes on but goes out when the set is turned off after about 15sec delay.

