

RED-IBT RE-CALIBRATION PROCEDURE (PART# RED-IBT-RTL)

It is recommended to inspect and test the Intelligent Battery Tester annually to verify accuracy with a new, fully charged SLA battery. The IBT is software driven and has no internal adjustments for calibration. Ampere-hours (Ah) accuracy is achieved by lead/clip resistance. It is therefore important to visually inspect the leads and clips annually and replace them if any sign of damage or wear.

Only calibrated leads/clips supplied by ACT Meters will provide accurate Ampere-hour (Ah) readings. Re-calibration kits for the RED-IBT and GOLD-IBT are available direct from ACT Meters or your local supplier.

Each kit comprises of:-

- * Calibrated leads and clips (1 Red, 1 Black).
- * Calibration Diode (1).
- * Replacement IBT top and side labels (3).
- * Fitting Instructions (soldering required).
- * Calibration Test Procedure.
- * In-house Calibration Label (1).

Two re-calibration kits are available:-

- * For the RED-IBT order part number RED-IBT-RTL.
- * For the GOLD-IBT order part number GOLD-IBT-RTL.

IMPORTANT: Re-calibration must be carried out by a competent person in accordance with the instructions below. **NO LIABILITY ACCEPTED FOR DAMAGE OR INJURY CAUSED ONCE WORK IS UNDERTAKEN.**



Step 1
Remove old top label.



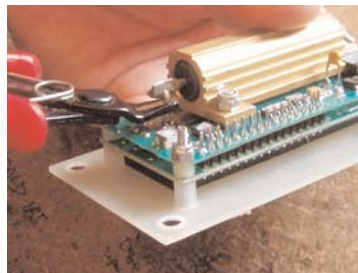
Step 2
Remove four screws.



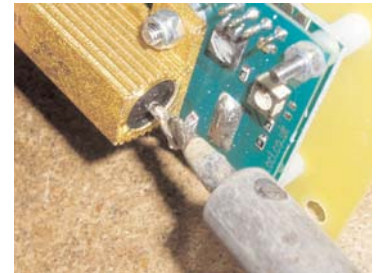
Step 3
Remove old leads.



Step 4
De-solder lead ends.



Step 5 Cut resistor link
(opposite end to leads).



Step 6
De-solder link ends.



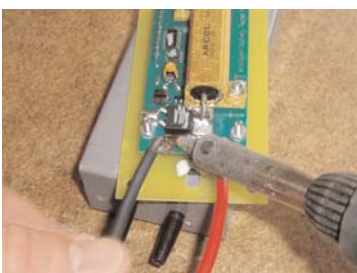
Step 7 Make link with
supplied Diode.



Step 8 Solder in Diode
(black band to resistor).



Step 9
Insert new leads.



Step 10 Solder into position
(WARNING: Observe polarity).



Step 11
Close unit up.



Step 12 Test, then fit
screws and new labels.

ACT-IBT INTELLIGENT BATTERY TESTER

IN-HOUSE CALIBRATION TEST RESULTS

Test results of engineers Intelligent Battery Testers must be compared against readings obtained from a Master Calibrated GOLD-IBT using a fully charged 12Volt 12Ah SLA battery maintained at an ambient temperature between 20C - 25C (68F - 77F).

Instrument Information

Serial Number of in-house Calibrated IBT _____

Serial Number of engineers IBT _____

Test Interval: 3 6 12 Months

IMPORTANT: BEFORE TESTING, CARRY OUT A VISUAL INSPECTION TO ENSURE THAT THE IBT LEADS AND CLIPS ARE NOT WORN OR BROKEN AS THIS WILL SIGNIFICANTLY AFFECT THE AMPERE-HOUR READING OBTAINED.

Test each IBT and record the readings obtained below. **SPECIAL NOTE: Repeat testing will normally cause the Ambient Temperature reading to increase. Disregard recording of IBT ambient temperature when repeat testing as this has no influence on the Voltage or Ah readings obtained.**

Acceptable Voltage Readings: 12.30 - 13.80VDC.

Acceptable Ah Readings @ 20 - 25C (68 - 77F): 11.00 -13.65Ah.

	Calibrated IBT:	Engineers IBT:	Pass:	Fail:
DC Voltage:	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ampere hour (Ah):	<input type="text"/>	<input type="text"/>	<input type="checkbox"/>	<input type="checkbox"/>

TEST DATE: _____ RE-TEST DATE: _____

TESTED BY: _____ SIGNATURE: _____

COMMENTS: