CHARGE TERMINAL PLUS - SELFTEST

Equipment

- small screw-driver
- metallic tweezers
- 10 cells NiCd battery-pack (capacity about 1000 to 2000 mAh)
- True-RMS DC mV meter (range 200 mV)
- DC current meter (range 2 A)

Prepare of selftest

No battery is connected AC power-switch (main 230 V) in position off (0) Cell-rotary-switch (S1) in position 10 cells Put in the AC power plug (230 V)

To start selftest

There are two SMD- pads on the solderside of the front PCB - namend J2 (see picture 1). Connect these two SMD- pads (f. e. metallic tweezers) and switch on the charger with the main switch - called <u>power</u>.

Then you will start the selftest- program.

Remove the metallic tweezers.

In this program, the display will show what you have to do and/or shows measured values. By every press of the MODE-button you reach the next check-point.

First you will see "START SELFTEST".
 Adjust VR1 to get best display brightness (see picture 1).

Connect the 10-cells NiCd-battery-pack to the red- and black-socket.

Connect a DC-TRUE-RMS millivolt-meter (range 200 mV) to R17 (see picture 1).

Push button

MODIFICATION OF CHARGE-CURRENT ADJUSTMENT

Display will show "CHARGE = 2 A MAX".
 Turn R47 (charge current) to the mid-position.
 True-RMS-meter will show a value between 75 and 120 mV (see picture 1).

Push button

Display will show "CHARGE = 2 A MID".
 True-RMS-meter must show the same value +/- 10 mV.

Push button

 Display will show "CHARGE = 1 A LOW". Adjust R47 to 45 ... 52 mV. Remove true-RMS-meter.

Push button

Display will show "ADJUST 1.800 A".
 Connect the DC-current-meter (range 2 A) between red-socket and battery-plus (see picture 1).
 Use R48 to adjust the discharge current within a range from 1.782 to 1.818 A. Remove the DC-current-meter and the battery-pack.

Notify that during this test the battery-pack is out of full charge- and discharge- control. So please do this adjust/check within a short time and use a half-way charged battery-pack.

Push button

 Display will show "IN:xxxx EMP:1200".
 Note: Cell-rotary-switch (S1) in position 10 cells xxxx must be a value more then 1200!

Push button

Then you are in the real charger program. Display will show "NO AKKU TO SERVE"

