STARTING

Connect the charger to the net (check the charger lable) and to the battery (the charger switches on after battery connection only): a few second later the charge begins automatically. The microprocessor on the electronic card resets the charger and shows the set charge cycle (see PAN.1). To change the cycle, open the charger and move the jumper on the electronic card.

"IU" CHARGE CYCLE

The charge begins in "I-phase" (constant current) to let battery voltage increase (see PAN.2a). When the battery voltage reaches Vu (see charger lable) the electronic card activates "U-phase". In case the battery voltage doesn't reach Vu by 10 hours, the chargers will STOP. During "U-phase" Vu (battery voltage) keeps constant, while the output current of the chargers decreases down to small values. "U-phase" lasts 5 hours, after that the chargers STOPs (battery totally recharged)
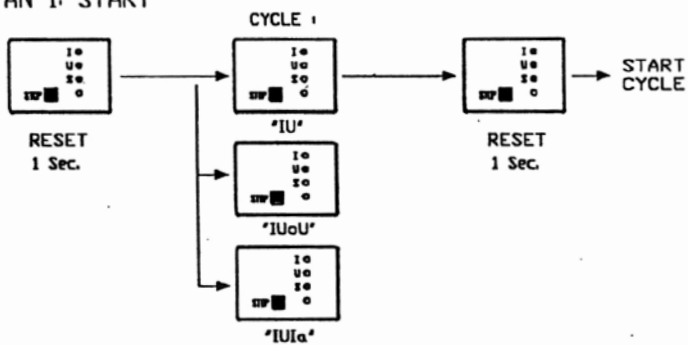
"IUoU" CHARGE CYCLE

The charge begins in "I-phase" (constant current) to let battery voltage increase (see PAN.2b). When the battery voltage reaches Vu (see charger lable) the electronic card activates "U-phase". During "U-phase" Vu (battery voltage) keeps constant while the output current of the charger decreases up to 1/3 of the nominal value. At that time begins "oU-phase": constant value of battery voltage (Vou - lower level than Vu) and decreasing output current. In IUoU charge cycle there are no timers. The battery is substantally recharged before "oU-phase" begins, however in this case it's necessary to push STOP before disconnecting the battery from the charger

"IUIa" CHARGE CYCLE

The charge begins in "I-phase" (contasnt current) to let battery voltage increase (see PAN.2c). When the battery voltage reaches Vu (see charger lable) the electronic card activates "U-phase". In case the battery voltage doesn't reach Vu by 10 hours, the chargers will STOP. During "U-phase" Vu (battery voltage) keeps constant, while the output current of the chargers decreases down to 3-4% of the nominal value ("U-phase" lasts maximum 5 hours). At that time the card activates "Ia-phase": output current keeps constant at 3-4% of the nominal value while the battery voltage increases. "Ia-phase" lasts 4 hours
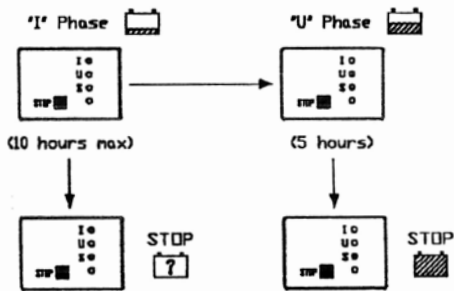
SPECIAL FUNCTIONS

There are electronic protections against battery overvoltage, overcurrent and inside overtemperature: in these case the microprocessor stops the charge (see drawing n°3 and n°5). If it happenes it's neccery to disconnect the battery for 1 minutes before starting again, anyway in these cases its better to call a technician. In case there are no LED's switched on, have a look on the following points: battery connection, net connection, fuses (see drawing n°4). In case it's necessary to stop the charge before the right time, push STOP for 4 seconds before disconneting the battery
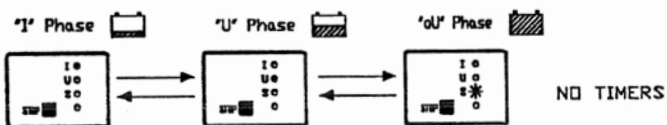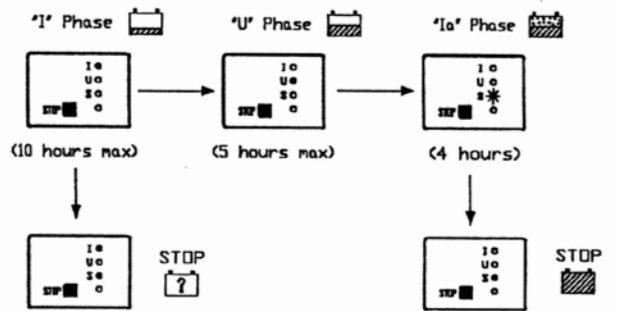
MICRO-CONTROL FUNCTIONS

PAN 1: START

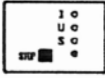RESET 1 Sec. → CYCLE: 'IU' / 'IUoU' / 'IUIa' → RESET 1 Sec. → START CYCLE

PAN 2a: IU Cycle

'I' Phase (10 hours max) → STOP
'U' Phase (5 hours) → STOP

PAN 2b: IUoU Cycle

'I' Phase → 'U' Phase → 'oU' Phase — NO TIMERS

PAN 2c: IUIa Cycle

'I' Phase (10 hours max) → STOP
'U' Phase (5 hours max)
'Ia' Phase (4 hours) → STOP
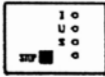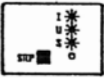
Special Functions

3) Overflow Vbat or Overflow Tmax
4) plug or ? or fuse
5) Overflow Imax
6) Manual STOP — For 4 seconds

Led: OFF ○ ON ● FLASH ☀

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