

Global Sales:
Units 5 & 6, Oak Tree Place,
Matford Business Park
Exeter. Devon. EX2 8WA, UK.

Head Office:
7178 Headley ST SE,
PO Box 649
Ada, MI 49301 USA.

Part Number: RF80H
Description: BATTERY CHARGER
ATP Serial Number: PMH0001242EXT
Date: 2026-04-25

Image: 1 of 4

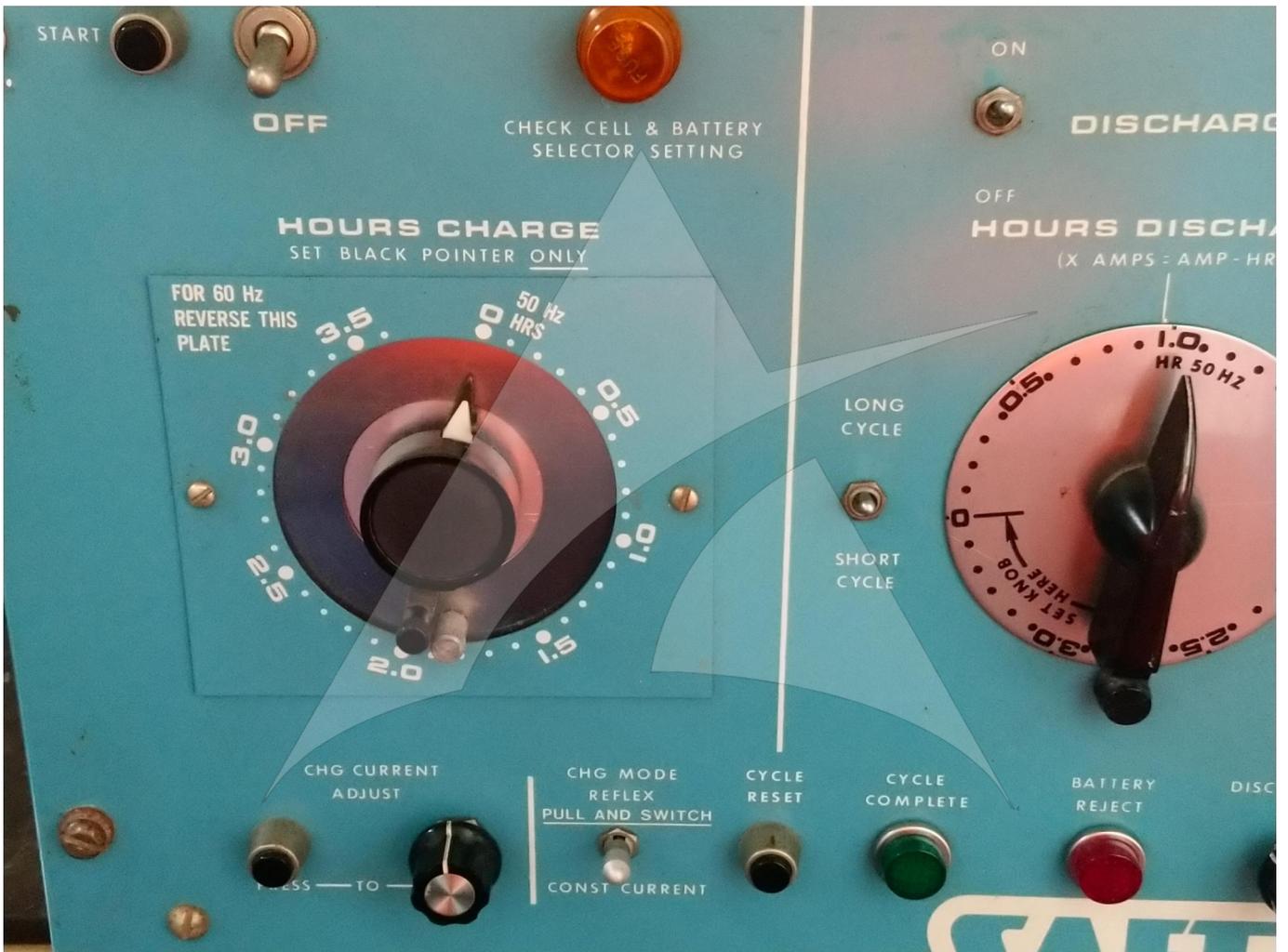


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SET-UP PROCEDURE (BEFORE TURN-ON)

STEP NO.	FUNCTION	NORMAL SETTING	COMMENTS
1	NO. OF CELLS	See to No. of cells in battery	The number of cells in series must correspond exactly (i.e., do not operate a 20 cell battery on a 19 cell position). Do not depend on battery rating plate - check actual number of cells in battery.
2	BATTERY RATING	See step No. 2 on Table 1	The battery rating should be based on the 1-hour rating. If the BATTERY RATING or CELLS IN SERIES switches are in a wrong position when turning the unit on, fuse F4 (on front panel) may blow (amber light on or flashing), preventing the desulfating process from flowing. Increased heating and reduced battery capacity would result. The fuse may also blow if the unit is turned on with no battery connected.
3	BAT TYPE	See step No. 3 on Table 1	All cells in battery must be of same type and manufacturer. Also see Instruction Manual paragraph 3-26.
4	DC INPUT CABLE	See step No. 4 on Table 1	Some proper cable connections on right side of unit. Then connect to the battery. (+) to (+) and (-) to (-). NOTICE: A protective interlock system prevents the charger output whenever the wrong cable or wrong BATTERY RATING switch position is used.
5	HOURS CHARGE	See step No. 5 on Table 1	Set charging time by turning the black pointer on the charge timer. Also see Instruction Manual paragraphs 3-14 and 3-25. Use proper fit dial.
6	DISCH DISCHARGE	See step No. 6 on Table 1	To make setting, loosen small, black locking knob on the discharge timer dial and rotate dial until the corresponding time number lines up with the white arrow. Then tighten the locking knob. Other discharge times and corresponding rates can be used.
7	DISCHARGE POINTER	Set to "0"	This is an 8 o'clock for 1-hour discharge, or 4 o'clock for 2-hour discharge, on 80 No. dial. During discharge, the discharge pointer will move clockwise toward the white arrow, which is the "00" capacity point. Use proper fit dial.
8	CHG MODE	RAFLEx	See CHG MODE switch to RAFLEx, except for charging of individual cells or optional fast described in Instruction Manual paragraphs 3-26, 3-28 and 3-27.
9	ANALYZER	ON	Switch to OFF if battery is to be charged only, not analyzed.
10	DISCHARGE	NORMAL	See Instruction Manual paragraphs 3-18, 3-19b, and 3-24 as to when to use "DEEP" DISCHARGE setting.
11	LONG CYCLE/SHORT CYCLE	LONG CYCLE	See paragraph 3-19 (a-1 and a-2) for short cycle.

NOTE: For most batteries the normal initial position for all toggle switches is UP.

TURN-ON AND ADJUSTMENTS

STEP NO.	FUNCTION	NORMAL SETTING	COMMENTS
12	AC ON/OFF	Switch to ON	Nothing visible or audible will result.
13	START	Press momentarily	Fast should turn on. BLOWN FUSE INDICATOR should light up momentarily while switch is depressed. If it does not come on, check the light again by depressing this switch 30 seconds after the charge current has been adjusted. If it still does not come on, replace light before proceeding. If light stays on after releasing switch, replace fuse. The red display should now show a pulsing current, unless cable is not connected to battery, or wrong cable is used, or BATTERY RATING switch is set wrong, or CHG CURRENT ADJUST is turned completely counterclockwise. If the blown fuse (amber) light stays on or continues to flash, after releasing this switch, check the BATTERY RATING and CELLS IN SERIES switch positions and replace fuse.
13A	CURRENT	Set to AMPS	Set meter switch to AMPS.
14	CHG CURRENT	See step No. 14 on Table 1	Press the CHG CURRENT ADJUST switch and simultaneously set the charge current by turning the CHG CURRENT ADJUST pot.
15	DISCH CURRENT	See step No. 15 on Table 1	Start discharge by moving only the white pointer on the charge timer counterclockwise gently back through zero. Now set the discharge current by turning the DISCH CURRENT ADJUST pot.
16	CYCLE RESET	Press momentarily	Press CYCLE RESET switch to start the now fully-programmed automatic charge-discharge-recharge cycle.

NOTE: It is a good practice to feel the battery links occasionally for excessive heating. An alcohol thermometer should be placed in a central cell. All other cell caps are usually kept on. OBSERVE PARAGRAPH 3-11 (b).

BATTERY ACCEPTANCE OR REJECTION

STEP NO.	FUNCTION	NORMAL SETTING	COMMENTS
17	Cell balance check at start of charge	SWITCH TO CELL READING	IMMEDIATELY AFTER START OF CHARGE: Use scanning probe to check voltage of each cell. Stop charging operation and reject battery if any cell is shorted, measures less than 1.0 volt, or has reversed polarity.
18	Cell balance check during charge	CELL READING	DURING CHARGE: At least during the last 10 minutes of charge, use scanning probe to check whether one or more cell readings are substantially higher or lower than the others. See paragraph 3-17 in case of abnormal voltages.
19	Cell balance check during discharge	CELL READING	DURING DISCHARGE: After 54 minutes of discharge if discharging at the 1 hour rate (or after 1 hour 48 minutes if discharging at the 2 hour rate), use scanning probe to check that each cell voltage is at least 1 volt.
20	Cell balance check during recharge	CELL READING	DURING RECHARGE: At least during last 10 minutes of recharge, use scanning probe to check whether one or more cell readings are substantially higher or lower than the others. See paragraph 3-17 in case of abnormal voltages.
21	Acceptance or Rejection		FOR BATTERY TO BE ACCEPTABLE, THE FOLLOWING TWO CONDITIONS MUST ALL HOLD TRUE AT END OF RECHARGE: A. Green CYCLE COMPLETE indicator is lighted. B. Cell readings under steps 17, 18, 19 and 20 were all satisfactory. NOTE: Electrolyte level must satisfy battery manufacturer's requirements.

Suggested Settings for RAFLEx Charger/Analyzer Operation

BATTERY INFORMATION	CHARGER ANALYZER SETTINGS (See Set-Up Procedure)									
	Step No. 2	Step No. 3	Step No. 4	Step No. 5	Step No. 6	Step No. 7	Step No. 8	Step No. 9	Step No. 10	Step No. 11
GE										
MARATHON										
SAFT										
ANY										
BATTERY										
COMMON										
MILITARY										
BATTERIES										

NOTE: Use the settings shown in the horizontal band for any battery, especially those not listed in the two lower bands. Under your brand of battery, determine which type cell you have (refer to the battery manufacturer's manual). The top of your battery's C value (also in the battery manual) contains the settings to use.

1 Lowest in battery manufacturer's manual.

2 "C" is the number equivalent to the ampere-hour rating of the battery when discharged at the one-hour rate. EXAMPLE: If a battery rated 20 Ah at the 1-hour rate, C equals 20. C values can be found in the battery manufacturer's manual.

3 Certain batteries may heat up more than desired during discharge. A two hour (C/2) discharge rate (d) should reduce this discharge temperature rise.

4 Certain batteries are also available in slightly different cases (e.g., 4078 vs 4078, etc.).

NOTE: Read "WARNING" in #1-2 of RF80H manual.

****50 amp minimum**
*****500 amp maximum**
 #11028 Rev. 5

BATTERY DATA IS BASED UPON BEST AVAILABLE INFORMATION
 See Instruction Manual for alternate charger/analyser settings.