

Typical Charge Current/Terminal Voltage vs
Time for SA-2 Charger & BP-1 Battery Pack

Notes:

1. Battery completely discharged before start.
2. This is a typical curve. Substantial variations may be expected without indicating that the battery or charger is defective.
3. Battery pack used was the BP-1.
4. Charger used was the SA-2.
5. To test the SA-2, connect a 120 ohm resistor across the charging terminals. DC current thru the resistor should be between 45 and 55 ma.
6. Battery pack BP-1 is considered fully charged after 14 hours of recharging from a completely discharged condition.

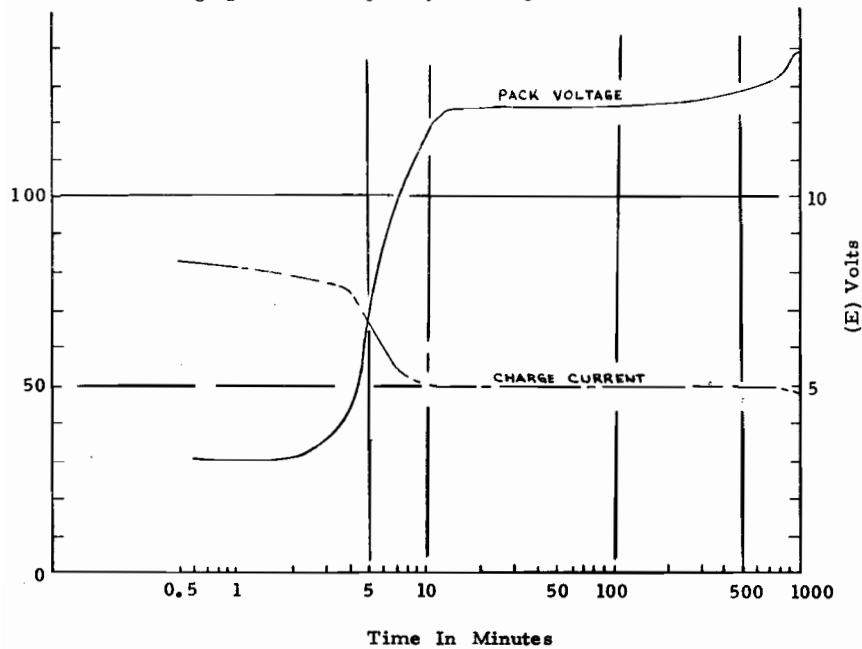
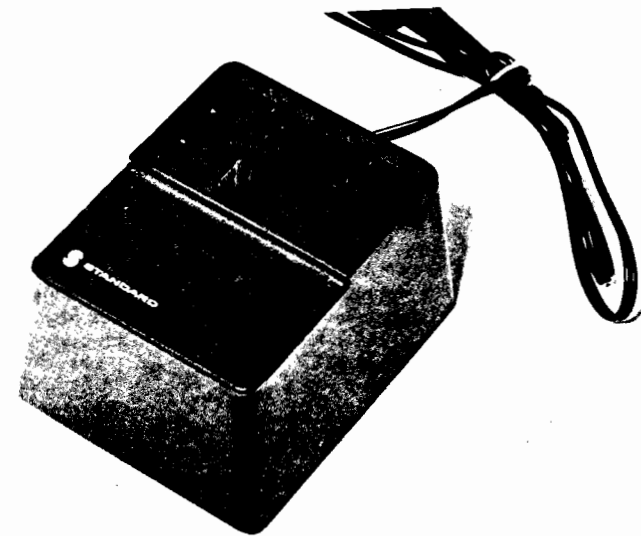


Figure 2: Charge Current/Terminal Voltage vs Time

sc-uSA-2
DESK TOP CHARGER



OWNERS MANUAL

 STANDARD COMMUNICATIONS CORP.

DESCRIPTION

The sc-uSA-2 "DESK TOP CHARGER" is an electronic solid-state battery charger and base station adapter designed for charging the nickel-cadmium battery pack used with STANDARD COMMUNICATIONS CORP.'S handheld transceiver series sr-cl46A, sr-c830S, sr-c830L, and sr-c730L. In addition, it permits interconnection to a base station antenna, as well as charging a second battery pack, which is out of the unit.

OPERATING INSTRUCTIONS

1. Connect the AC power cord from the sc-uSA-2 to a source of 120 volt AC current.
2. Place the handheld transceiver into the DESK TOP CHARGER with its front facing the front of the CHARGER. When the charging contacts at the bottom of the handheld make contact with those in the charger, the red pilot lamp on the DESK TOP CHARGER will illuminate. If the red lamp does not illuminate it means the SA-2 is not charging. Before assuming the SA-2 is defective, check the position of the handheld in the SA-2 and make certain that the DESK TOP CHARGER and handheld transceiver are both facing forward.
3. The DESK TOP CHARGER is designed for ease in charging the battery in your handheld transceiver. An additional feature is that it can be used as a base holder on your desk for your handheld whether or not a charge is required. The handheld can remain on your desk in the charger indefinitely. The charging rate has no detrimental effect on the battery pack, regardless of the length of time the batteries remain in the CHARGER.
4. The DESK TOP CHARGER has facilities to re-charge a spare battery and the battery pack in the transceiver simultaneously. To charge the external battery pack, connect the accessory adapter cable which is supplied with the SA-2 and insert the plug into the jack at the back side of the CHARGER. The red pilot lamp will not illuminate if only an external battery is being charged.

NOTE

The batteries inside the handheld transceiver and the spare battery pack can be charged simultaneously. The only consideration is that each battery will charge at half the normal charging rate of the DESK TOP CHARGER.

5. To use the DESK TOP CHARGER as a base station adapter, connect an external base antenna to the connector at the rear of the CHARGER. Cable assembly (SCC P/N sr-cAD) is available for this purpose. The cable assembly plug at the end of the cable can be connected to the antenna receptacle on the handheld transceiver (ANT). The portable antenna in the handheld transceiver is automatically disconnected when connected to the external antenna.

CAUTION

DO NOT ATTEMPT TO CHARGE OTHER THAN RE-CHARGABLE NI-CAD BATTERIES. THE RATING OF THE BATTERY SHOULD BE 400 MAH OR GREATER.

NOTE: Typical charge current-terminal voltage vs Time curves are shown in Figure 2.

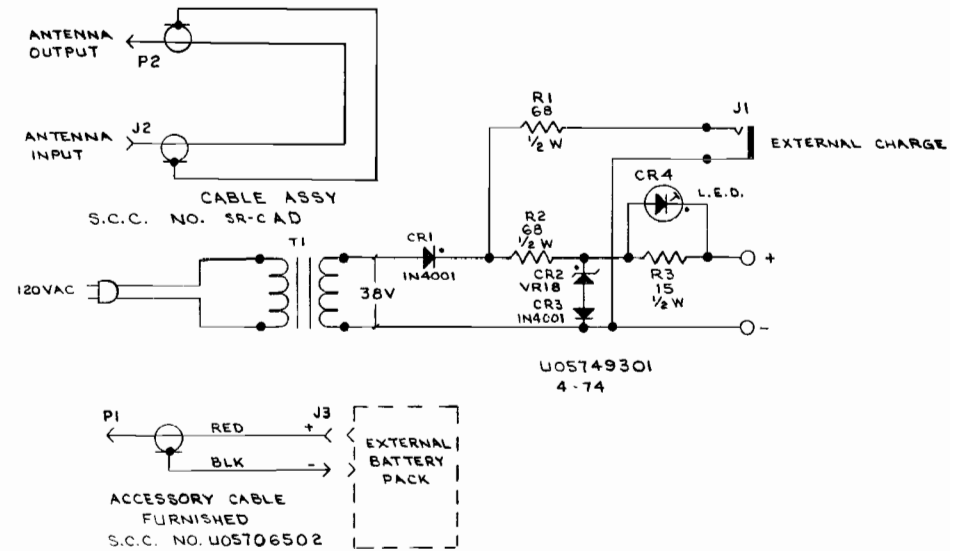


Figure 1: SCHEMATIC DIAGRAM sc-uSA-2
DESK TOP CHARGER

ELECTRICAL PARTS LIST - sc-uSA-2

CIRCUIT SYMBOL	DESCRIPTION	SCC PART #
CR1, CR3	Diode	1N4001
CR2	Diode - Zener	VR18
J1	Ultra - Miniature Receptacle	16PJ100
CR4	L. E. D. (Light Emitting Diode)	5082-4850
R1, R2	Resistor; 68 ohm; 1/2 W; ±10%	
R3	Resistor; 15 ohm; 1/2 W; ±10%	
T1	Transformer	U05727901
ACCESSORIES		
P2 - J2	Cable Assembly - ANT.	U05706501
P1 - J3	Cable Assembly - Battery Charger	U05706502
MECHANICAL PARTS		
	Housing	U05710501 - 1
	Bottom Cover	U05710501 - 2
	Contacts	N-114 - 3
	PWR Cord	14LC006