

# "STARCOM 36" 36-CHANNEL CONVERTER, Models RSX-\*

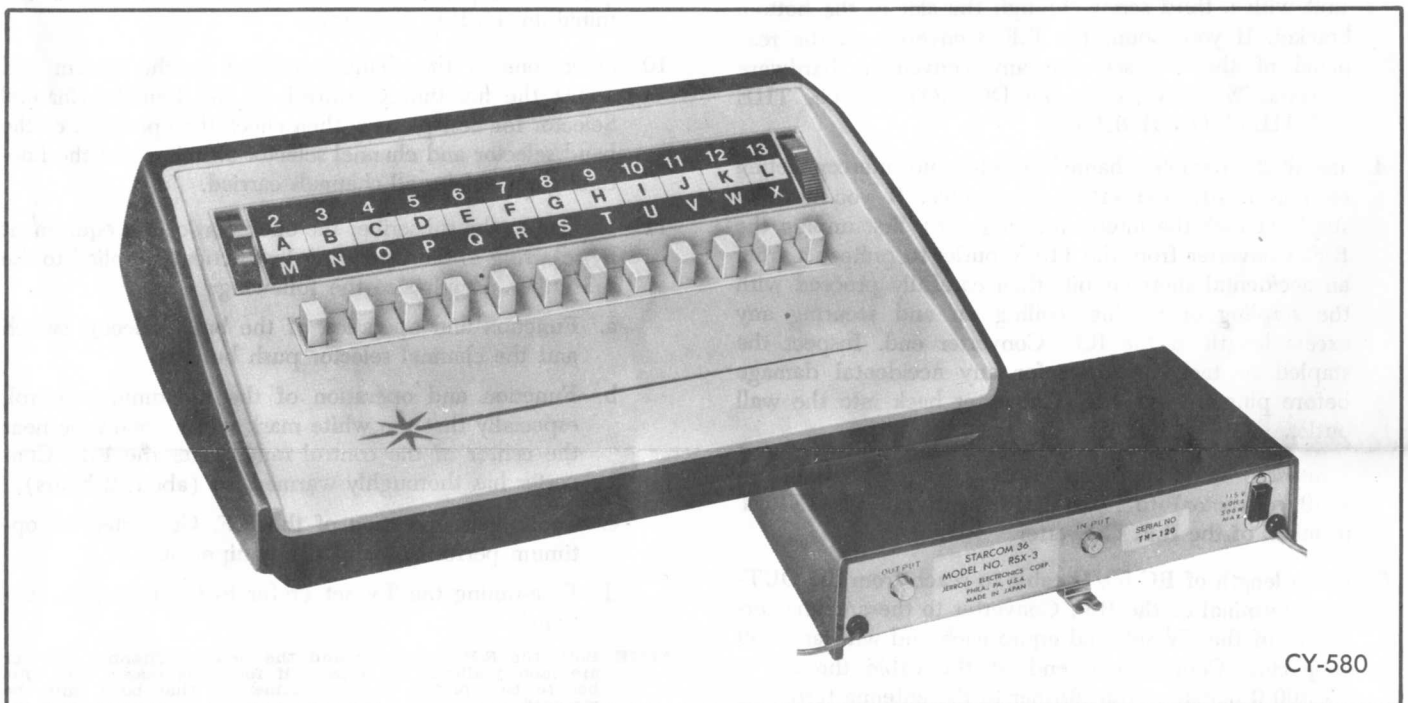


Fig. 1 REMOTE CONTROL PUSH-BUTTON CHANNEL SELECTOR AND R.F. CONVERTER UNIT

## SPECIFICATIONS

OUTPUT CHANNEL Model RSX-*	Ch. 2: 54-60 MHz Ch. 3: 60-66 MHz Ch. 4: 66-72 MHz Ch. 5: 72-78 MHz	SECOND ORDER DISTORTION (at +15 dBmV input level)	-66 dB
BANDWIDTH of Output Channel	6 MHz ( $\pm 1$ dB flatness)	FINE TUNING RANGE	$\pm 1.5$ MHz nominal
GAIN	4.5 dB min., 11 dB max.	INPUT VSWR (Ref. 75 $\Omega$ )	2.5:1 max.
NOISE FIGURE	13 dB nom., 14 dB max.  (Carrier to noise ratio: 46 dB at 0 dBmV input level)	OUTPUT VSWR (Ref. 75 $\Omega$ )	1.5:1 max.
		LOCAL OSCILLATOR Level at input connector	0 dBmV max.
CROSS MODULATION (36 channels in, each at +15 dBmV)	-64 dB	POWER CONSUMPTION	8 watts at 115 volts ac input, 60 Hz

## INSTALLATION

1. Switch on the subscriber's television set to allow it to warm up.
2. Determine the best locations for both the Remote Channel Selector unit and the R.F. Converter unit bearing in mind that the R.F. Converter should be located near a 115 V wall outlet and that both units are interconnected by a 25-ft. cord.
3. Mount the R.F. Converter and plug it into the 115 V outlet. The R.F. Converter may be mounted on any flat surface with two #6 or #8 screws used with the keyhole slots on the top bracket spaced 5 inches apart. Then hang the R.F. Converter onto the two screws and secure the unit with a third screw through the slot in the bottom bracket. If you mount the R.F. Converter on the rear panel of the TV set, use any convenient hardware (screws, "S" hooks, etc); but **DO NOT BLOCK THE VENTILATION HOLES.**
4. Install the Remote Channel Selector and interconnecting cord as neatly and safely as possible. If you have to staple or tack the interconnecting cord, first unplug the R.F. Converter from the 115 V outlet to protect it from an accidental short circuit; then carefully proceed with the stapling or tacking, coiling up and securing any excess length at the R.F. Converter end. Inspect the stapled or tacked section for any accidental damage before plugging the R.F. Converter back into the wall outlet.
5. Route the house drop feed-in cable (equipped with an F-59 connector) to reach conveniently to the INPUT terminal of the R.F. Converter.
6. Cut a length of RG-59/U cable to reach from the OUTPUT terminal of the R.F. Converter to the antenna terminals of the TV set, and equip each end with an F-59 connector. Connect one end of the cable through a 75/300  $\Omega$  matching transformer to the antenna terminals if they are of the 300  $\Omega$  type, or directly to the 75  $\Omega$  coaxial input if the set is so equipped.
7. Connect the other end of the cable through a Model F-81B coupling connector temporarily to the house drop feed-in cable.
8. Tune the TV set to the required channel (2 or 3) and fine-tune the set for the best picture. If the set has automatic fine-tuning, temporarily turn this control off until manual fine-tuning has been completed.
9. Disconnect the F-81B and connect the house drop feed-in cable to the INPUT terminal on the R.F. Converter, and the jumper from the TV set to the OUTPUT terminal on the R.F. Converter.
10. Select one of the channels carried on the system and adjust the fine-tuning control on the Remote Channel Selector for best picture; then check the operation of the band selector and channel selector switches and the fine-tuning control for all channels carried.
11. Explain to the subscriber the operation of the equipment by referring to the Operating Instructions supplied to the subscriber. Emphasize the following:
  - a. Function and operation of the band selector switch and the channel selector push buttons.
  - b. Function and operation of the fine-tuning control, especially that the white mark will normally be near the center of the control range after the R.F. Converter has thoroughly warmed up (about 2 hours).
  - c. Continuous operation of the R.F. Converter for optimum performance of the equipment.
  - d. Fine-tuning the TV set (refer to Operating Instructions).

**NOTE:** Both the R.F. Converter and the Remote Channel Selector are factory-aligned as a pair; if for some reason one unit has to be replaced, it is recommended that both units be replaced.

CHANNEL ASSIGNMENTS	Non-Standard Channel	Video Carrier Frequency (MHz)	Aural Sub-carrier Frequency (MHz)	Non-Standard Channel	Video Carrier Frequency (MHz)	Aural Sub-carrier Frequency (MHz)	Non-Standard Channel	Video Carrier Frequency (MHz)	Aural Sub-carrier Frequency (MHz)
	INPUT PASSBAND: 45-300 MHz	A	121.25	125.75	I	169.25	173.75	Q	259.25
Standard channels 2 thru 13. Non-standard channels A thru R. Push buttons 2 thru 13 on control unit select channels 2 thru 13 respectively.	B	127.25	131.75	J	217.25	221.75	R	265.25	269.75
	C	133.25	137.75	K	223.25	227.75	S	271.25	275.75
	D	139.25	143.75	L	229.25	233.75	T	277.25	281.75
	E	145.25	149.75	M	235.25	239.75	U	283.25	287.75
	F	151.25	155.75	N	241.25	245.75	V	289.25	293.75
	G	157.25	161.75	O	247.25	251.75	W	295.25	299.75
	H	163.25	167.75	P	253.25	257.75	X	Not used	

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