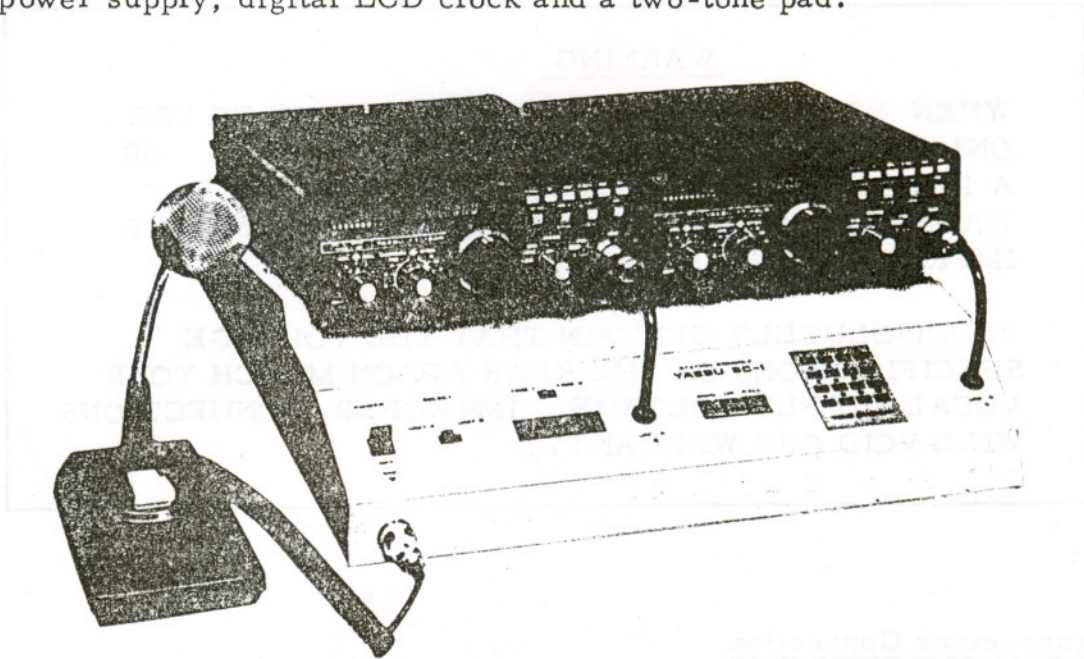


SC-1 STATION CONSOLE FOR FT-480R, FT-680R & FT-780R

The SC-1 is a station console designed for the FT-480R, FT-680R and FT-780R. The SC-1 can hold any two of the above mentioned transceiver simultaneously on a desk, and its features include a power supply, digital LCD clock and a two-tone pad.



SPECIFICATIONS

Power Supply

Output voltage:	13.8V DC \pm 0.2V (no load)
Output current:	5 amps @ 50/duty cycle
Ripple:	Less than 50mV p-p @ 5 amps
Input Voltage	100/110/117/200/220/234 V AC 50/60 Hz

Clock

Power supply:	1.5V DC AA size dry battery, 1 piece
Accuracy:	\pm 15 seconds per month @ 25 C

General

Size:	370(W) x 86(H) x 345(D) mm
Weight:	Approx. 5.5 Kg.

Tone Encoder

Output level:	0.9 - 0.95 mV (without load)
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INSTRUCTIONS

Be absolutely certain that the voltage specification marked on the power supply is the same as that of your local supply voltage. Refer to the transformer connection chart for details, should you change locations.

WARNING

WHEN REPLACING FUSE F1, BE CERTAIN TO USE ONLY A 2 AMPERE FUSE FOR 100/110/117 VAC, OR A 1 AMPERE FUSE FOR 200/220/234 VAC. OUR WARRANTY DOES NOT COVER DAMAGE CAUSED BY IMPROPER FUSE INSTALLATION.

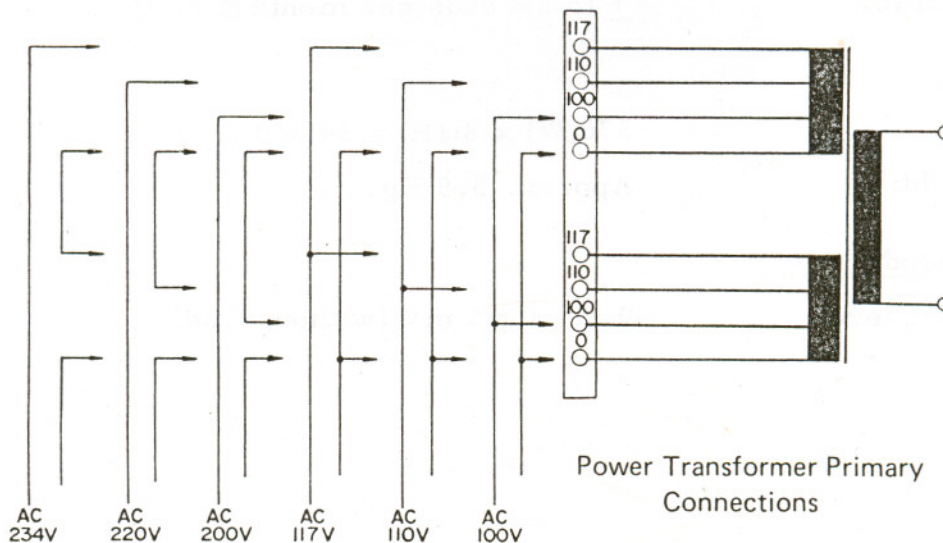
BE ABSOLUTELY CERTAIN THAT THE VOLTAGE SPECIFICATIONS ON THE REAR APRON MATCH YOUR LOCAL SUPPLY VOLTAGE. IMPROPER CONNECTIONS WILL VOID OUR WARRANTY.

Transceiver Connection

Remove the stand fixed to the bottoms of the transceivers, and set the transceivers on the SC-1. Before installation, be sure that the stand mounts on the transceivers will fit into the holes of the SC-1.

Be sure the power switch on the SC-1 is in the off position, and connect the DC cables from the SC-1 to both transceivers. Connect the microphone cables from the front panel of the SC-1 to the transceivers, and connect the YM-40 microphone to the microphone jack on the front panel of the SC-1.

The SELECT switch controls all functions of either transceiver placed in the SC-1. An LED indicator indicates which transceiver is being activated.



CAUTION

Do not transmit both transceivers at the same time, as the maximum current from the internal power supply cannot exceed 5 amps.

Turn the SC-1 power switch on first, and then place the power switches of the transceivers on, to avoid wrong initialization of the CPU in the transceivers. On the rear panel power jack, always replace fuses with a fuse of the proper rating. Failure to observe these precautions will void all warranties on this equipment.

Battery Installation

Remove the small bottom cover marked "TIME SET", and install an AA size penlight cell in the battery holder. Be absolutely certain to observe the proper polarity of the battery during installation.

Clock Setting

When a dry battery is installed in the battery holder, the LCD clock immediately starts counting, with the * symbol on the LCD indicating the seconds that elapse.

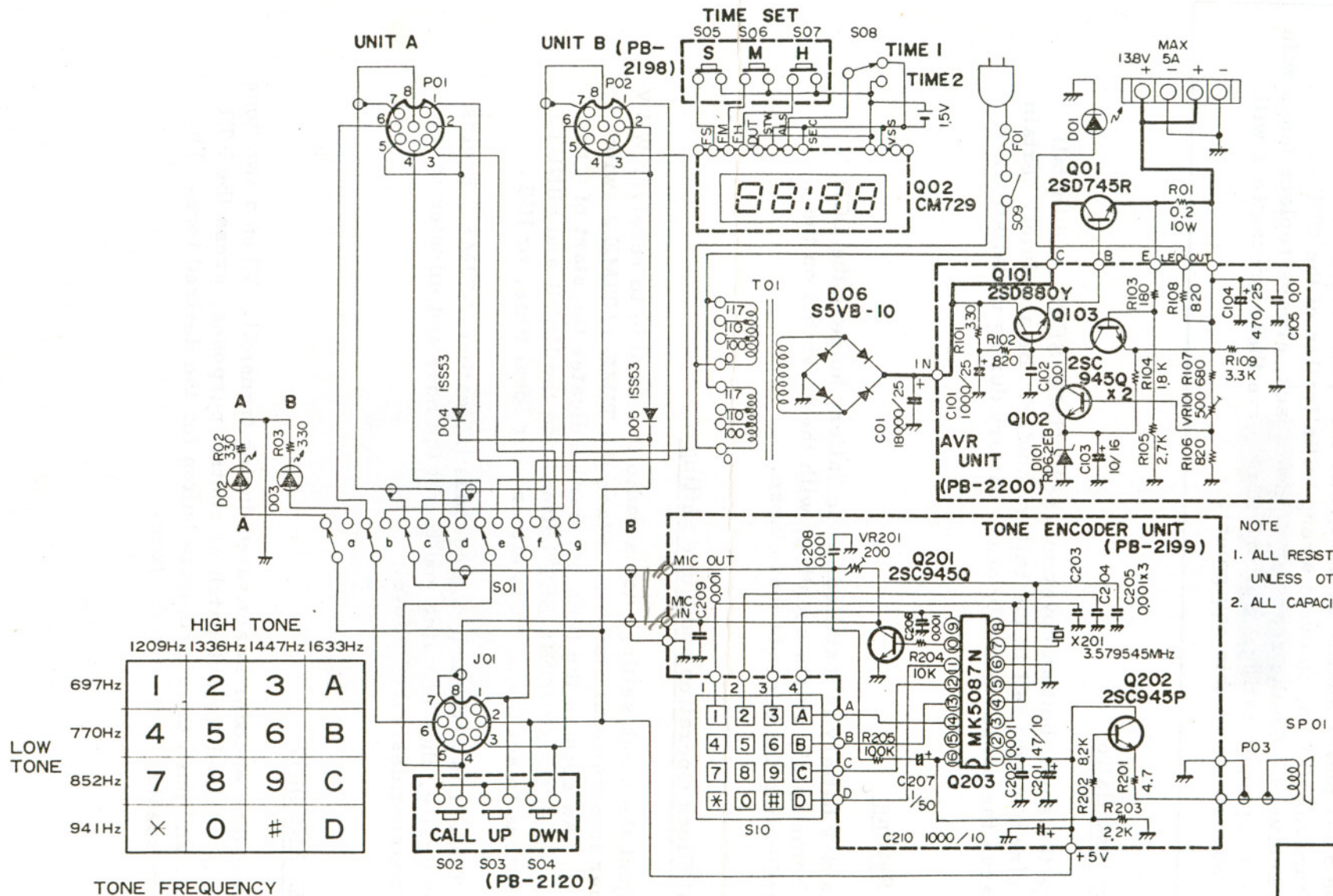
Digital Clock Operation and Time Setting

To adjust the clock setting, use a radio that is able to receive WWV or other international stations. Place the TIME 1/ TIME 2 switch to TIME 1. As soon as the time standard indicates the start of a new minute, push the SECOND SET button, and the HOUR and MINUTE SET buttons to set the clock to either your local time, or IUT.

When TIME 1 is activated, the seconds indication of TIME 2 begins automatically, thus enabling you to set the hour and minutes in the same manner described above.

TONE ENCODER

The two-tone encoder is activated during transmit. When a two-tone signal is desired for autopatch or control purposes, press the PTT switch, and push the appropriate button for the desired tone. The built-in speaker monitors the tone.



HIGH TONE
1209Hz 1336Hz 1447Hz 1633Hz

697Hz	1	2	3	A
770Hz	4	5	6	B
852Hz	7	8	9	C
941Hz	X	0	#	D

TONE FREQUENCY

- NOTE
1. ALL RESISTORS ARE IN 1/4W UNLESS OTHERWISE NOTED.
 2. ALL CAPACITORS ARE IN μF.

SC-1
CIRCUIT DIAGRAM