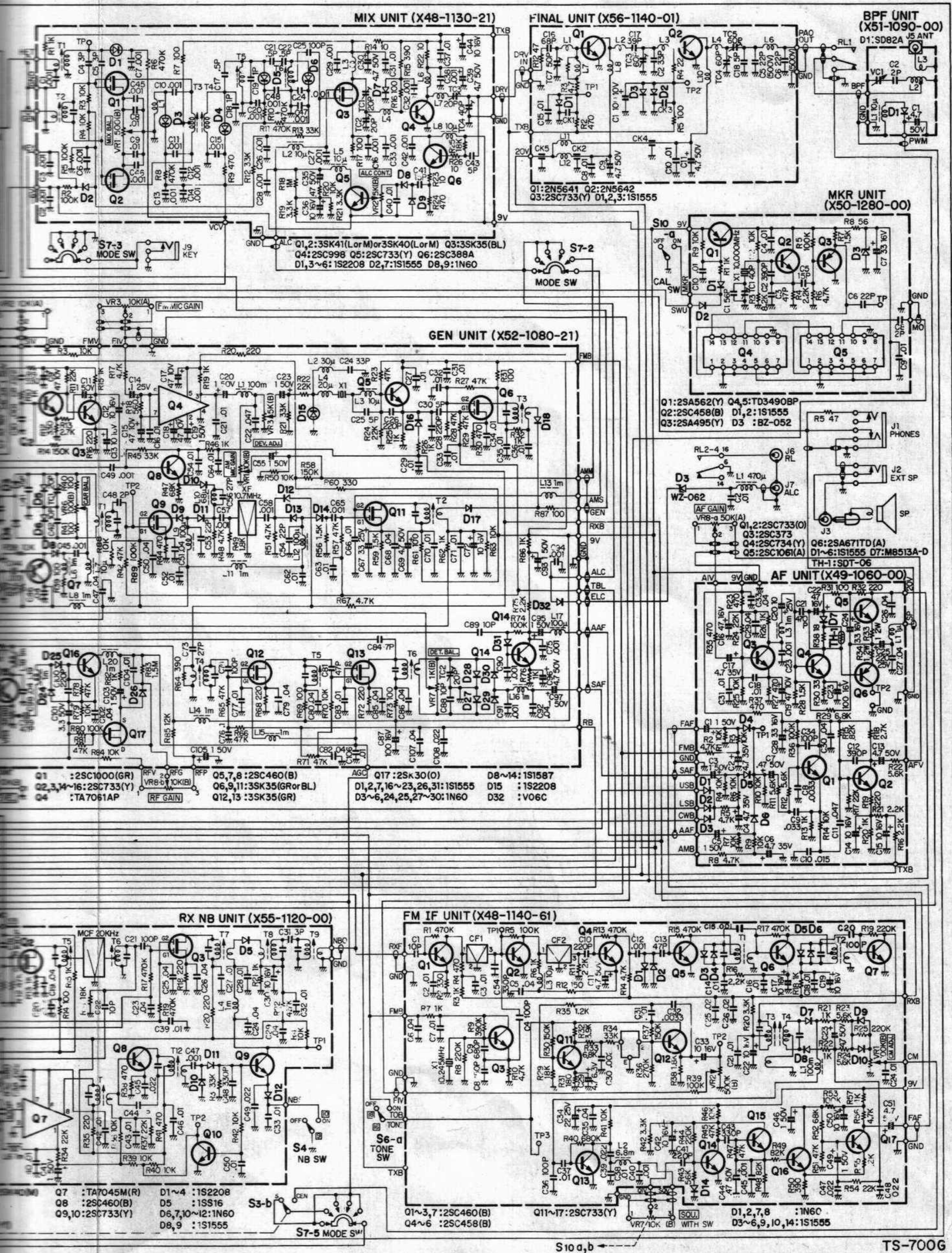


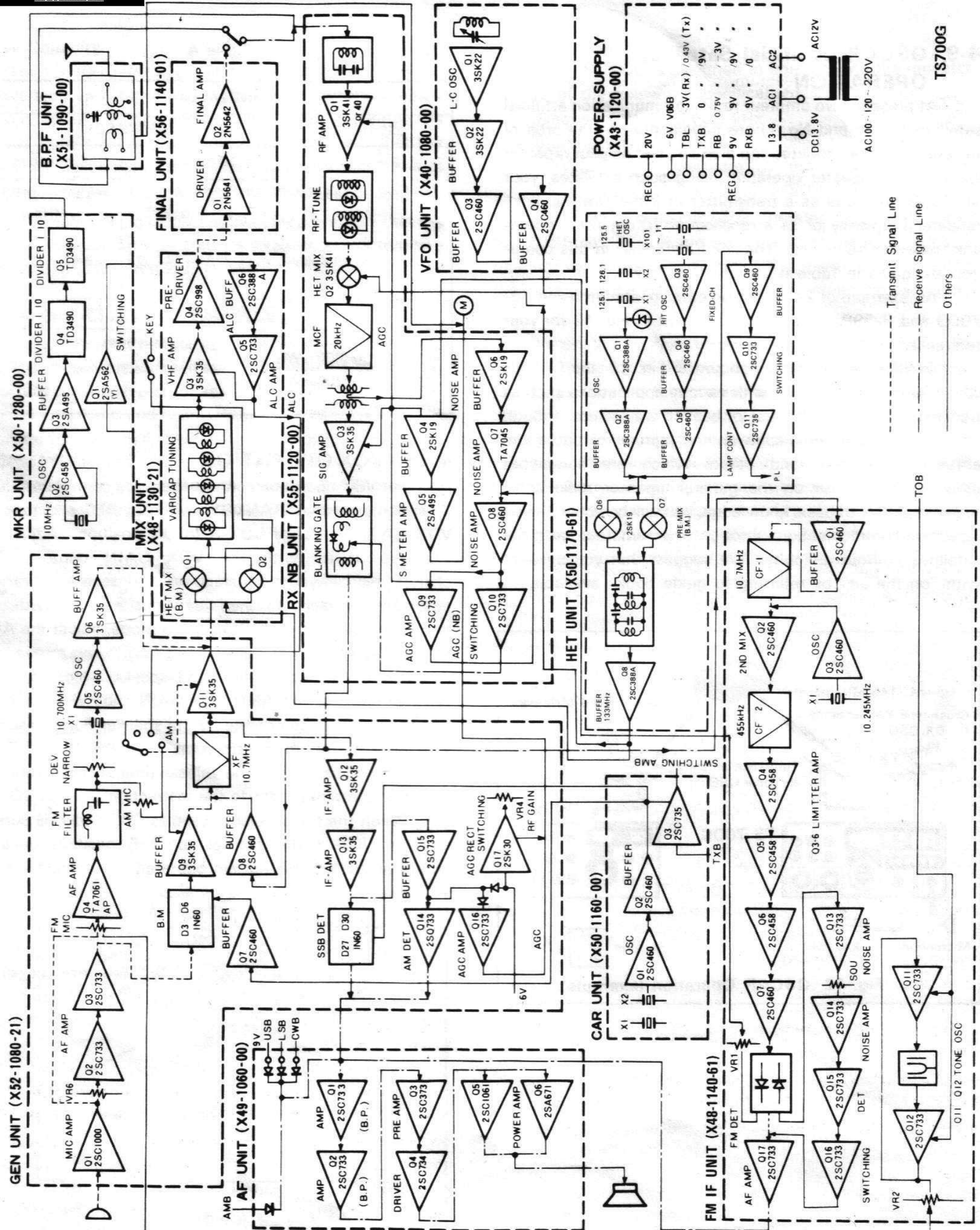


# EMTIC DIAGRAM

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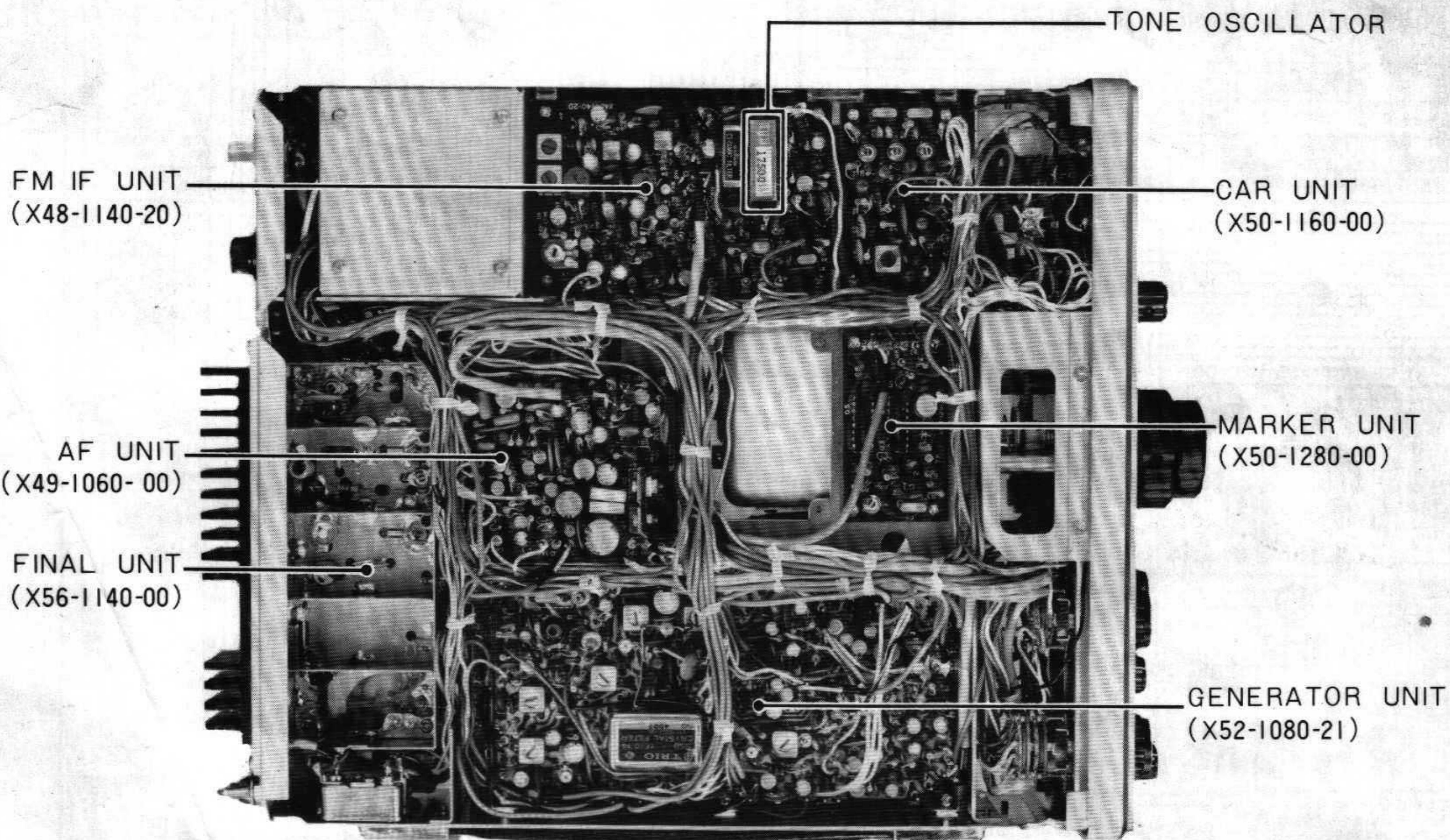
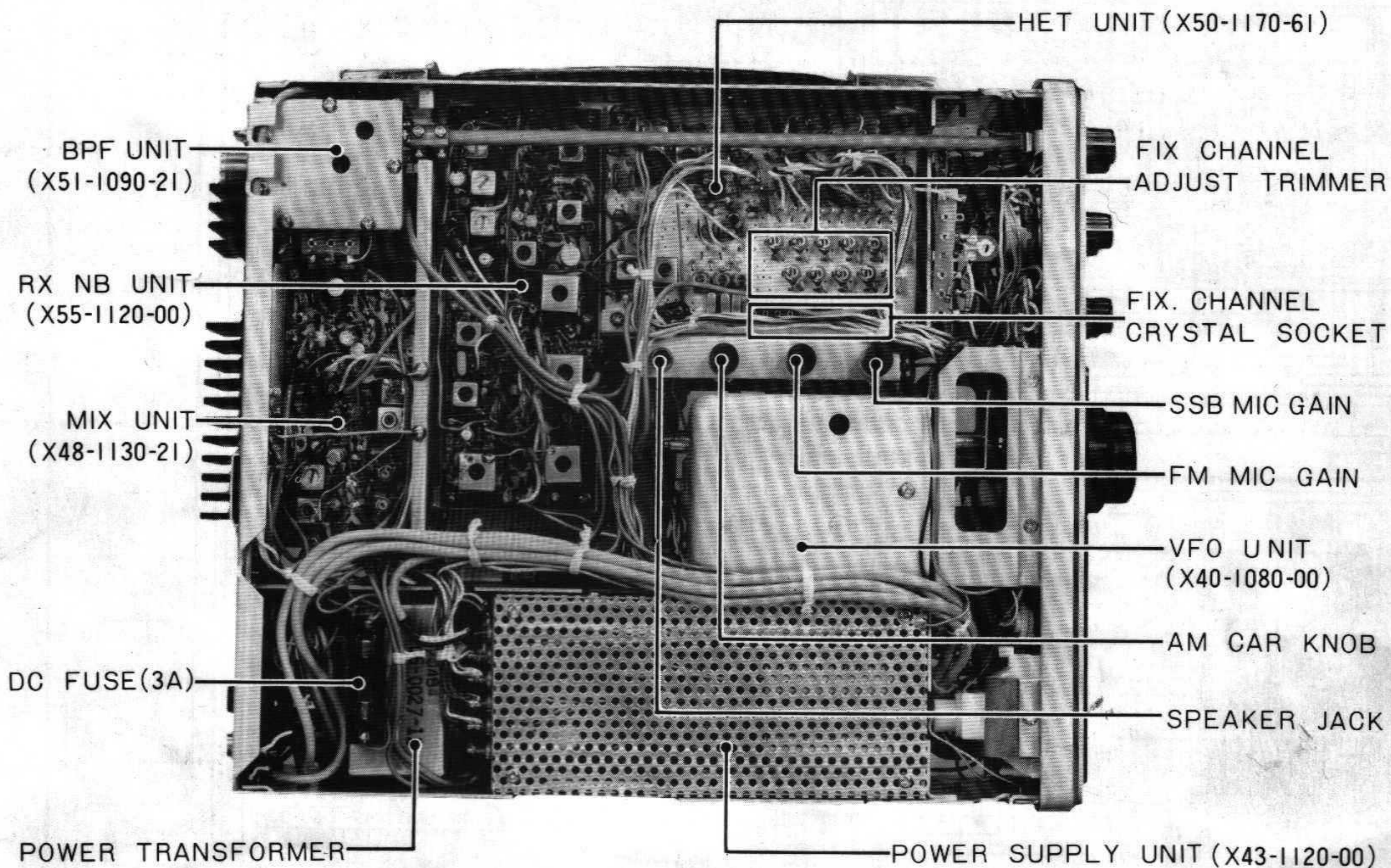








# TOP & BOTTOM VIEW OF THE TS-700G





# TS-700G SPECIFICATIONS

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## SPECIFICATIONS

TRANSMIT/RECEIVE FREQUENCY RANGE .....	144 ~ 146 MHz
MODE .....	SSB, FM, CW, AM
RF OUTPUT .....	10 watts for SSB, CW and FM 3 watts for AM
ANTENNA IMPEDANCE .....	50 $\Omega$ (unbalanced)
CARRIER SUPPRESSION .....	Better than 40 dB
SIDE-BAND SUPPRESSION .....	Better than 40 dB
SPURIOUS RADIATION .....	Less than -60 dB
MAX. FREQUENCY DEVIATION (FM) .....	$\pm 5$ kHz
REPEATER FREQUENCY SHIFT WIDTH .....	600 kHz
RPT TONE FREQUENCY .....	1750 Hz
MODULATION .....	Balanced modulation for SSB Variable reactance frequency shift for FM Low power modulation for AM
MICROPHONE .....	Dynamic microphone, 500 $\Omega$
AUDIO FREQUENCY RESPONSE .....	400 ~ 2600 Hz, within -9 dB
POWER CONSUMPTION .....	Transmit mode: 95W (AC 120/220V), 4A (DC 13.8V), max. Receive mode (no signal): 45W (AC 120/220V), 0.8A (DC 13.8V)
POWER REQUIREMENTS .....	AC 120/220V, 50/60 Hz DC 12V ~ 16V (13.8V as reference)
DIMENSIONS .....	278 (W) $\times$ 124 (H) $\times$ 320 (D) mm
WEIGHT .....	11 kg
RECEIVING SYSTEM .....	SSB, CW, AM: Single-superheterodyne FM: Double-superheterodyne
INTERMEDIATE FREQUENCY .....	SSB, CW, AM: 10.7 MHz FM: 1st IF ... 10.7 MHz 2nd IF ... 455 kHz
RECEIVING SENSITIVITY .....	SSB, CW: S/N = 10 dB or better at 0.25 $\mu$ V FM: S/N = 30 dB or better at 1 $\mu$ V 20 dB noise quieting = Less than 0.4 $\mu$ V AM: S/N = 10 dB or better at 1 $\mu$ V
IMAGE RATIO .....	Better than 60 dB
IF REJECTION .....	Better than 60 dB
PASS-BAND WIDTH .....	SSB, CW, AM: More than 2.4 kHz at -6 dB FM: More than 12 kHz at -6 dB
RECEIVER SELECTIVITY .....	SSB, CW, AM: Less than 4.8 kHz at -60 dB FM: Less than 24 kHz at -60 dB
SQUELCH SENSITIVITY .....	0.25 $\mu$ V
AUDIO OUTPUT .....	More than 2W at 8 $\Omega$ load (10% distortion)
RECEIVER LOAD IMPEDANCE .....	8 $\Omega$
FREQUENCY STABILITY .....	Within $\pm 2$ kHz during one hour after one minute of warm-up, and within 150 Hz during any 30 minute period thereafter.