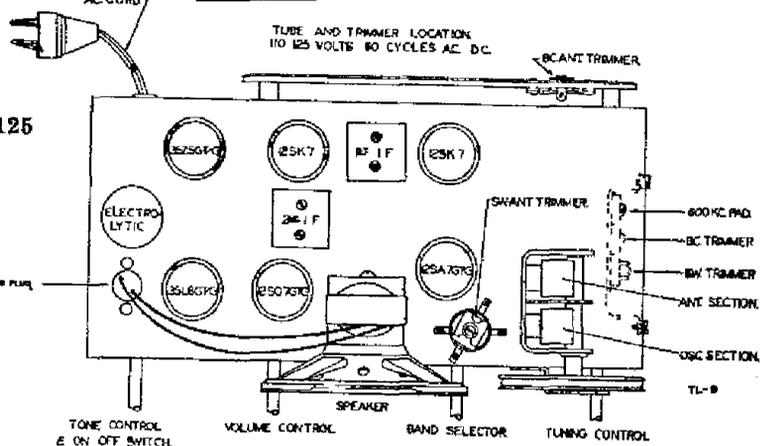


CAUTION

POWER SOURCES — This receiver will operate either on 110-125 volt A.C., 50-60 cycle current or 110-125 volt D C. current

Never plug this receiver into a 220 volt line

The components in this receiver are designed for 110-125 volt operation only Any attempt to operate this receiver at a higher than prescribed voltage will cause serious damage



ALIGNMENT AND SERVICE DATA

Remove the chassis from the cabinet for alignment.

A signal generator is required, having the following frequencies. 455 KC, 1400 KC, 1730 KC 6 MC, 16 MC, and 18.3 MC An output meter should be connected across the speaker

I F ALIGNMENT: — Connect the generator lead through a .1 MFD Condenser to the terminal lug on the "Antenna" section of the gang condenser. The ground lead from the generator should be connected to the gang frame Set the generator at 455 KC Adjust the trimmer screws in the 1st and 2nd I F cans (See Fig 1) until a maximum reading is noted on the output meter

The receiver volume control should be turned to maximum during the I F. and all subsequent alignments, to keep the AVC from working and giving false readings Keep the generator output as low as possible to prevent overloading

BC. OR BROADCAST ALIGNMENT — With the generator leads still connected as in I F Alignment, rotate the tuning condenser to complete minimum capacity Set the generator to 1730 KC Adjust the BC oscillator trimmer until the signal is tuned in Next remove the hot lead of the generator from the "Ant" section of the gang condenser Connect this lead to the antenna lead wire that projects from the back of the loop antenna through a 200 MMFD condenser Set the generator to 1400 KC and rotate the tuning condenser until the signal is tuned in Adjust the BC antenna trimmer until a maximum reading is noted on the output meter Set the generator to 600 KC and turn the tuning control until the signal is tuned in Rock the tuning control back and forth slowly and at the same time adjust the 600 KC pad, slowly to the right or left until a maximum reading is noted on the output meter It is advisable to return to the 1730 KC adjustment and re-check that setting to make sure it has not changed while padding at 600 KC

S W. OR SHORT WAVE ALIGNMENT: — Set the generator at 18.3 MC. Turn the receiver band switch to short band position Turn the tuning condenser to complete minimum capacity The generator leads should be connected to the antenna lead wire that projects from the back of the loop antenna through a 400 Ohm resistor Adjust the S W oscillator trimmer slowly until the 18.3 MC signal is tuned in At this point, it will be well to make sure that the fundamental signal is tuned in Turn up the generator output and tune the receiver to approximately 17.3 MC At this point the 18.3 MC signal will be heard again but much weaker This is the image frequency If the image is not heard, then turn the tuning condenser back to complete minimum and readjust the S W oscillator trimmer. Remember, the image must always be heard (at 2 times the I F frequency in KC) lower the frequency than the fundamental signal After the oscillator has been properly set, tune the signal generator to 16 MC and rotate the tuning control until the signal is tuned in Adjust the S W antenna trimmer until a maximum reading is noted on the output meter It is advisable to rock the gang slowly while adjusting the antenna trimmer Set the generator to 6 MC and tune the signal in on the receiver Check the alignment at this frequency No adjustment should be necessary as the coils have been carefully checked before leaving the factory A fixed oscillator padding condenser is used at 6 MC

PART NO	DESCRIPTION
IR-22	R-1 3900Ω RESISTOR 1/2 W 10%
IR-8	R-2 22000Ω RESISTOR 1/2 W 10%
IR-10	R-3 47000Ω RESISTOR 1/2 W 20%
IR-9	R-4 22000Ω RESISTOR 1/2 W 20%
IR-24	R-5 1000Ω RESISTOR 1/2 W 20%
IR-23	R-6 3.9 MEG RESISTOR 1/2 W 20%
IR-13	R-7 2 MEG RESISTOR 1/2 W 20%
IR-5	R-8 220Ω RESISTOR 1/2 W 10%
IR-11	R-9 47000Ω RESISTOR 1/2 W 20%
IR-17	R-10 39Ω RESISTOR 1/2 W 20%
IR-21	R-11 330Ω RESISTOR 1/2 W 10%
VC-3	R-12 1 MEG VOLUME CONTROL
VC-1	R-13 25MΩ TONE CONTROL & SW
IR-6	R-14 470Ω RESISTOR 1/2 W 10%
PC-7	C-1 01 MFD CONDENSER 400 V
PC-5	C-2 05 MFD CONDENSER 400 V
PC-9	C-3 25 MFD CONDENSER 400 V
PC-B	C-4 1 MFD CONDENSER 400 V
MC-3	C-5 00022 MFD MICA COND 500V
MC-2	C-6 0001 MFD MICA COND 500V
MC-1	C-7 00475 MFD MICA COND 3%
MC-4	C-8 00005 MFD MICA COND 500V
	C-9 40 MFD
EC-4	C-10 40 MFD 150 V ELECTROLYTIC
	C-11 40 MFD
TC-7	C-12 LOOP ANTENNA TRIMMER
TC-8	C-13 S W ANTENNA TRIMMER
	C-14 BC OSC TRIMMER
TC-1	C-15 S W OSC TRIMMER
	C-16 BC OSC PADDING COND.
GC-1	G-1 GANG CONDENSER
	G-2
SW-1	SW-1 BAND SWITCH
	SW-2
	SW-3
LI-1	T-1 A C SW ON TONE CONTROL
LI-2	T-2 INPUT I F TRANSFORMER
	T-3 OUTPUT I F TRANSFORMER
SPK-4	V C VOICE COIL
	S PM SPEAKER
PB-1	PL PILOT BULB #47
CO-1	P LINE CORD
LA-2	L-1 LOOP ANTENNA
L-2	L-2 S W ANTENNA COIL
LO-3	L-3 BC OSC COIL
LO-4	L-4 S W OSC COIL
TU-4	12 SK7GT 12 SA7GT 12 SK7GT 12 SQ7GT 35 L6GT 35 Z5GT