

MODEL S-40 A ALIGNMENT

EQUIPMENT:

1. Signal Generator capable of the ranges indicated in the Alignment Chart, including a 400 cycle audio modulator.
2. Output meter capable of handling 1.5 watts of audio power.
3. Standard RMA dummy consisting of a 200 mmf condenser in series with a 20uh r-f choke which is shunted by a 400 mmf condenser in series with a 400 ohm carbon resistor.
4. Non-metallic screw driver.

CONNECTIONS: Connect the Sig. Gen. "cold" lead to the receiver's chassis; the "hot" lead is connected as indicated in the Chart.

Connect the output meter across the speaker voice coil. Caution: Set the meter at a sufficiently high range to prevent possible damage from overload.

CONTROL SETTINGS: After allowing about a ten minute warm up period, set the receiver's control as follows:

SENSITIVITY control at full clockwise (maximum).

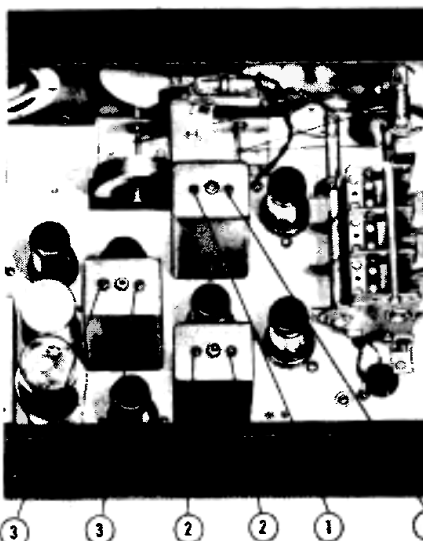
VOLUME control at full clockwise (maximum).

CW/AM switch at "AM" (except for BFO adjustment).

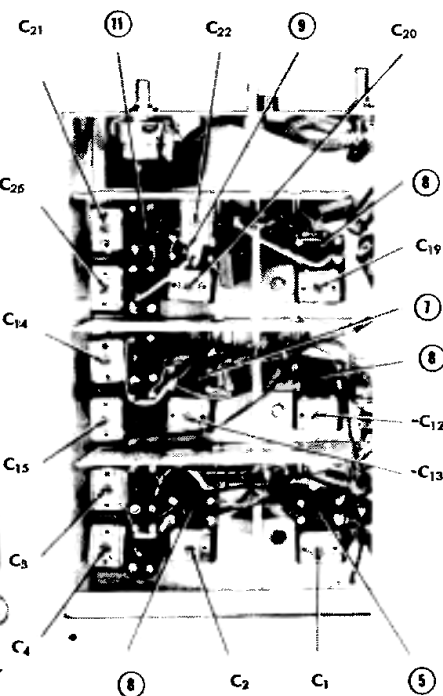
A.V.C. switch at "OFF."

NOISE LIMITER switch at "OFF."

TONE control at "HIGH".



Top and bottom views of the receiver
locating slugs, padders and trimmers



DUMMY ANT. CONNECTION OF IN SERIES WITH SIG. GENERATOR	SIG. GENERATOR OUTPUT TO RECEIVER	SIGNAL GEN. FREQUENCY SETTING	BAND SWITCH SETTING	RECEIVER DIAL SETTING	ADJUST SLUG, PADDER, OR TRIMMER NO.	DESCRIPTION	TYPE OF ADJUSTMENT —MAKE ADJUSTMENT STEP FOR:	NO.
IF ADJUSTMENT								
None	Stator plates of center sect. of tuning gang	455 kc	"1"	1000 kc	3 (both)	3rd IF	Maximum output	1
					2 (both)	2nd IF	Maximum output	2
					1 (both)	1st IF	Maximum output	3
Repeat steps 1, 2 and 3								
BFO ADJUSTMENT—NOTE: Turn off Sig. Gen. 400 cycle modulation; set CW/AM switch at "CW"; remove Pitch Control knob adjust slotted screw shaft.								
None	Stator plates of center sect. of tuning gang	455 kc	"1"	1000 kc	T-17 slug (See Fig. 3 for location)	BFO slug	Zero heat	4
BAND #4 ADJUSTMENT—NOTE: Make sure 400 cycle audio modulator is turned on; AM/CW switch should be at "AM."								
STANDARD "A1" on antenna	36 mc	"4"	36 mc	C-19	Osc. Trimmer	Maximum output		5
RMA Dummy strip	18 mc		18 mc	8	Osc. Slug	Maximum output and repeat step 5		6
	36 mc		36 mc	†C-1	RF Trimmer	Maximum output		7
	36 mc		36 mc	†C-12	Mix. Trimmer	Maximum output		8
	18 mc		18 mc	*†5	RF Slug	Maximum output and repeat step 7		9
	18 mc		18 mc	*†6	Mix Slug	Maximum output and repeat step 8		10
BAND #3 ADJUSTMENT								
STANDARD "A1" on antenna	14 mc	"3"	14 mc	C-20	Osc. Trimmer	Maximum output		11
RMA Dummy strip	10 mc		10 mc	* 9	Osc. Slug	Maximum output and repeat step 11		12
	14 mc		14 mc	†C-2	RF Trimmer	Maximum output		13
	14 mc		14 mc	†C-13	Mix. Trimmer	Maximum output		14
	7 mc		7 mc	*† 4	RF Slug	Maximum output and repeat step 13		15
	7 mc		7 mc	*† 7	Mix. Slug	Maximum output and repeat step 14		16
BAND #2 ADJUSTMENT								
STANDARD "A1" on antenna	5 mc	"2"	5 mc	C-21	Osc. Trimmer	Maximum output		17
RMA Dummy strip	3 mc		3 mc	* 11	Osc. Slug	Maximum output and repeat step 17		18
	5 mc		5 mc	C-3	RF Trimmer	Maximum output		19
	5 mc		5 mc	C-14	Mix. Trimmer	Maximum output		20
BAND #1 ADJUSTMENT								
STANDARD "A1" on antenna	1500 kc	"1"	1500 kc	C-22	Osc. Trimmer	Maximum output		21
RMA Dummy strip	600 kc		600 kc	C-25	Osc. Padder	Maximum output and repeat step 21		22
	1500 kc		1500 kc	C-4	RF Trimmer	Maximum output		23
	1500 kc		1500 kc	C-15	Mix. Trimmer	Maximum output		24

*It may be necessary to repeat the indicated adjustments several times.

†Rock the main tuning capacitor slightly (turn back and forth) when making these adjustments