

SERVICE BULLETIN FOR MODEL SX-42

GENERAL: Model SX-42 is a 15 tube AM/FM super-heterodyne radio receiver incorporating six bands of AM reception, two of which are used also for the reception of frequency modulated signals. Provision for variable sensitivity control, optional AVC, noise limiting, SPO pitch, tone, headset reception, standby operation, and band-spreading are provided. Six degrees of selectivity are also provided for manually altering the selectivity of the receiver on the first four bands.

FREQUENCY COVERAGE:

BAND	COVERAGE	TYPE OF RECEPTION
1	540 to 1620 kilocycles	AM/CW
2	1.62 to 5 megacycles	AM/CW
3	5 to 15 megacycles	AM/CW
4	15 to 30 megacycles	AM/CW
5	27 to 55 megacycles	AM/FM/CW
6	55 to 110 megacycles	AM/FM/CW

Adequate overlap is provided at ends of all bands.



FIG. 1. FRONT VIEW OF RECEIVER

REAR PANEL CONNECTIONS: Consists of AC line cord with plug, antenna and ground connector strip, speaker connector strip, phone input Jack, and d-c power input socket.

POWER SUPPLY DATA: AC operation - 105 to 125 volts, 50/60 cycles single phase source. (Also 110/130/150/230/250 volt, 25 to 60 cycles single phase source with special power transformer available, Hallicrafters part No. 58C131.) Power consumption is 110 watts at 117 volts a-c.

DC operation - filament 6.3 volts at 5 amperes; "B" supply 270 volts at 150 ma. (The 5 volt battery drain for vibrator type supply for "B" voltage will run about 16 amperes.)

TUBE TYPES AND FUNCTIONS:

TYPE	FUNCTION	TYPE	FUNCTION
6AG5	1st RF amplifier	6BE6	discriminator
6AG5	2nd RF amplifier	6SL7	audio inverter & amplifier
7FD	local oscillator & converter	6V6	audio output
6ES7	1st IF amplifier	6V6	audio output
6ES7	2nd IF amplifier	7A4	beat frequency oscillator & f-m tuning amplifier
6BE6	2nd detector (AM) and noise limiter	CE5W/150	voltage regulator
7BY	1st f-m limiter amplifier	5040	high voltage rectifier
7BY	2nd f-m limiter-amplifier		

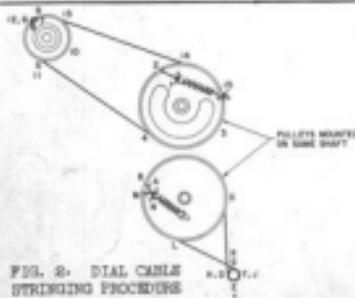


FIG. 2. DIAL CABLE STRINGING PROCEDURE

HOW TO RESTRING DIAL CORD

To restring the main tuning dial cord, cut a 25" length of 30 lb. test dial cord and tie one end to the tension spring of the main tuning capacitor drive pulley at position "1", Fig. #2. Follow the numbers "1" through "14", wind the cord on the pulley and knob drive shaft. At position "14", stretch the tension spring and tie cord securely. Cut off excess cord. To restring the bandspread tuning dial cord, follow the same procedure as explained above except start at position "A" and proceed through position "N" on tension spring.

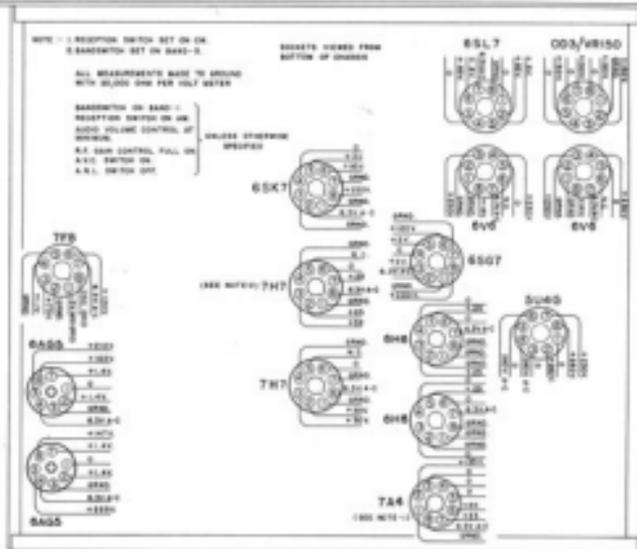


FIG 3. VOLTAGE CHART

REPLACEMENT PARTS LIST FOR MODEL SI-4a RADIO RECEIVER

REF. NO.	DESCRIPTION	RAILCRAFTERS PART NUMBER	NET PRICE PER COMPONENT
CAPACITORS			
C-1, 2, 16, 17, 30, 37	Trimmer, dual mounting assembly	44B165	\$.30
C-3, 4, 5, 18, 19, 20, 21, 22, 23, 24 & 25	R-F Trimmer (2-6 mf) Ceramic	44B176	*
C-5	Capacitor (2 mf 10%) Molded Bakelite	46A002	.10
C-7	Capacitor (6 mf ±.5 mf .00075 T.C.) Ceramic	CC208060D	.30
C-8, 11, 23, 25	Capacitor (.05 mf 150V) Paper	46A094	.15
C-9	Capacitor, Main Tuning	46C158	9.75
C-10	Capacitor, Bandspread	46C159	5.50
C-12, 26	Capacitor (.01 mf ±40-15% 400V) Paper	46A103J	.25
C-13, 15, 27, 29, 30, 32, 33, 34, 35, 36, 37, 38, 100, 104, 105 & 112	Capacitor (.02 mf ±40-15% 400V) Paper	46A203J	.10
C-14, 28	Capacitor (5600 mf 30% 500V) mica	CH25A55M	.50
C-22, 26	Capacitor (15 mf 10% .00075 T.C.) Ceramic	CC208150K	.10
C-24	Capacitor (.25 mf ±40-15% 500V) paper	46A7254J	.20
C-37, 37	Capacitor (.47 mf 10% 500V) Mica	CH204470K	.15
C-38	Capacitor (.01 mf 150V) Paper	46A095	.15
C-39, 40	Capacitor (.110 mf 5% .00075 T.C.) Ceramic	CC25K111J	.15
C-40, 41	Trimmer (4-20 mf) Ceramic	44A070	.25
C-42, 119	Trimmer (6-8 mf) Mica	44A025	*
C-43, 45	Trimmer (2-6 mf) Ceramic	44A077	.25
C-44	Capacitor (4700 mf 2% 500V) Mica	CH25C470K	1.10
C-45	Capacitor (1500 mf 2% 500V) Mica	CH25C150K	*
C-47	Trimmer (4-20 mf) Ceramic	44A076	.25
C-48	Capacitor (470 mf 2% 500V) Mica	CH204470K	.25
C-51	Capacitor (250 mf 2% 500V) Mica	CH252510K	.20
L-22, 26, 71, 94, 99, 104, 119 & 125	Capacitor (.05 mf ±40-15% 400V) Paper	46A203J	.15
C-57, 106	Capacitor, Variable (CW Pitch & Crystal Phasing)	46A054	1.00
C-58, 60, 61	Trimmer Assembly (Triple, 1.5 mf to 25 mf, 1.5 mf to 15 mf, 1.5 mf to 25 mf)	44B164	.45

REPLACEMENT PARTS LIST FOR MODEL SI-4* RADIO RECEIVER

REF. NO.	DESCRIPTION	HAIRCOURT'S PART NUMBER	NET PRICE PER COMPONENT
O-62,70,86	Capacitor (.05 mfd +40-15% 500V) Paper	48ADSOJ	\$.10
O-75,79,81,92,122,106,121	Capacitor (.01 mfd +40-15% 400V) Paper	48AM10SJ	.10
O-78	Capacitor (22 muf 10% 500V) Mica	CHC0A88K	.15
O-80,120,124,125	Capacitor (7 muf 10% .00075 T.C.) Ceramic	CCG0M070K	.20
O-82,83,84,90	Capacitor (180 muf 10% 500V) Mica	CHC0A181K	.15
O-85	Capacitor (680 muf 10% 500V) Mica	CHC0A681K	.20
D-107	Capacitor (10 mfd +75-10% 25V) Electrolytic	45AC04	.35
D-110	Capacitor (680 muf 10% 500V) Mica	CHC0A681K	.20
D-111,113,116	Capacitor, Electrolytic	45AC41	1.35
D-114,115,117	Capacitor (.01 mfd 40-15% vduw) Paper	45AD10SJ	.15
D-123	Capacitor (22 muf 10% .00075) Ceramic	CCG0M082K	.20

RESISTORS

R-1,10,51,52	Resistor 11,000,000 ohm 20% 1/2 watt) Carbon	RC02AE104M	.10
R-2	Resistor (12 ohm 10% 1/2 watt) Carbon	RC02AE120K	.10
R-3,15	Resistor (150 ohm 10% 1/2 watt) Carbon	RC02AE151K	.10
R-4	Resistor (47,000 ohm 10% 1/2 watt) Carbon	RC02AE470K	.10
R-5,9,14,19	Resistor (15 ohm 20% 1/2 watt) Carbon	RC02AE150M	.10
R-6,13,17,20	Resistor (2200 ohm 20% 1/2 watt) Carbon	RC02AE220M	.10
R-7,18,20,67,74 & 78	Resistor (1200 ohm 10% 1/2 watt) Carbon	RC02AE120K	.10
R-12	Sensitivity Control (10,000 ohm Pot. 1/2 watt)	28A549	.40
R-15,22,32,70,86	Resistor (1000 ohm 20% 1/2 watt) Carbon	RC02AE100M	.10
R-21,48,58	Resistor (2.2 megohm 20% 1/2 watt) Carbon	RC02AE220M	.10
R-23	Resistor (47 ohm 20% 1/2 watt) Carbon	RC02AE470M	.10
R-25,56,75,80	Resistor (10,000 ohm 10% 1/2 watt) Carbon	RC02AE100K	.10
R-26	Resistor (5600 ohm 10% 1/2 watt) Carbon	RC02AE560K	.10
R-27	Resistor (470 ohm 20% 1/2 watt) Carbon	RC02AE470M	.10
R-28	Resistor (68,000 ohm 10% 1 watt) Carbon	RC02AE680K	.10
R-29	Resistor (120 ohm 10% 1/2 watt) Carbon	RC02AE120K	.10
R-30,41,42,64,88	Resistor (1 megohm 20% 1/2 watt) Carbon	RC02AE100M	.10
R-31	Resistor (220 ohm 10% 1/2 watt) Carbon	RC02AE220K	.10
R-34	Variable resistor (500 ohm) "B" type	28C02	1.00
R-36	Resistor (1.2 megohm 10% 1/2 watt) Carbon	RC02AE120K	.10
R-37	Resistor (22 ohm 10% 1/2 watt) Carbon	RC02AE220K	.10
R-38	Resistor (270 ohm 10% 1/2 watt) Carbon	RC02AE270K	.10
R-39,50,87	Resistor (56,000 ohm 10% 1/2 watt) Carbon	RC02AE560K	.10
R-43	Resistor (22,000 ohm 10% 1/2 watt) Carbon	RC02AE220K	.10
R-44	Resistor (2 megohm 20% 1/2 watt) Carbon	RC02AE200M	.10
R-45,95,101,102	Resistor (300 ohm 20% 1 watt) Carbon	RC02AE300M	.10
R-46,57,71,94	Resistor (47,000 ohm 10% 1/2 watt) Carbon	RC02AE470K	.10
R-49,99	Resistor (300,000 ohm 10% 1/2 watt) Carbon	RC02AE300K	.10
R-50,97	Resistor (33 ohm 10% 1/2 watt) Carbon	RC02AE330K	.10
R-53,65	Resistor (470,000 ohm 20% 1/2 watt) Carbon	RC02AE470K	.10
R-54,97	Resistor (100,000 ohm 10% 1 watt) Carbon	RC02AE100K	.10
R-55	Resistor (20,000 ohm 10% 1/2 watt) Carbon	RC02AE200K	.10
R-60	Resistor (200 ohm 10% 1/2 watt) Carbon	RC02AE200K	.10
R-65	Resistor (150,000 ohm 10% 1/2 watt) Carbon	RC02AE150K	.10
R-68	Resistor (5100 ohm 5% 1/2 watt) Carbon	RC02AE510J	.10
R-72	Resistor (100 ohm 10% 1/2 watt) Carbon	RC02AE101K	.10
R-73	Volume Control (1 meg. pot. 1/2 watt) includes power switch SW-8	28A549	.80
R-76,92	Resistor (56 ohm 10% 1/2 watt) Carbon	RC02AE560K	.10
R-77,98	Resistor (1000 ohm 10% 1/2 watt) Carbon	RC02AE100K	.10
R-79,80,81,83	Resistor (220,000 ohm 10% 1/2 watt) Carbon	RC02AE220K	.10
R-82,100	Resistor (2200 ohm 10% 1/2 watt) Carbon	RC02AE220K	.10
R-84	Resistor (220 ohm 10% 1/2 watt) Carbon	RC02AE220K	.10
R-86	Resistor (2000 ohm 5% 10 watt) Wirewound	24B0200	.20
R-89	Resistor (68,000 ohm 10% 1/2 watt) Carbon	RC02AE680K	.10
R-90	Resistor (15 ohm, 20% 1/2 watt) Carbon	RC02AE150M	.10
R-91,93	Resistor (4700 ohm 10% 1/2 watt) Carbon	RC02AE470K	.10
R-95	Resistor (680 ohm, 20% 1/2 watt) Carbon	RC02AE681M	.10

REPLACEMENT PARTS LIST FOR MODEL SX-4* RADIO RECEIVER

REF. NO.	DESCRIPTION	RALICORPATER'S PART NUMBER	NET PRICE PER COMPONENT
	PILOT LAMP		
LM-1,2,3	6-8 volt; 250 ma; bayonet type	36A018	\$.10
LM-4	6-8 volt; 150 ma; bayonet type	36A019	.10

PLUG

PL-1	Shorting plug; octal	35A015	.20
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SWITCHES

SW-1	Band Selector	60C041	6.00
SW-2	Selectivity	60A034	1.25
SW-3	Reception	60C035	1.25
SW-4	Tone	60C036	.75
SW-5,6,7	AVC, Noise Limiter, Receiver-Standby toggle with bat handle; SPST	60A138	.90
SW-8	Power-off; not a replaceable part; shown for reference only; part of volume control R-70		

TRANSFORMERS

T-1	Antenna Coil; Band #5	51B825	.25
T-2	Antenna Coil; Band #5	51B825	.25
T-3	Antenna Coil; Band #4	51B827	.60
T-4	Antenna Coil; Band #3	51B828	.60
T-5	Antenna Coil; Band #1	51B829	.70
T-6	R-F Coil; Band #6	51B830	.45
T-7	R-F Coil; Band #5	51B832	.25
T-8	R-F Coil; Band #4	51B831	.60
T-9	R-F Coil; Band #3	51B830	.60
T-10	R-F Coil; Band #2	51B825	.70
T-11	R-F Coil; Band #1	51B824	.65
T-12	Converter Coil; Band #5	51B844	.25
T-13	Converter Coil; Band #4	51B843	.60
T-14	Converter Coil; Band #3	51B842	.65
T-15	Converter Coil; Band #2	51B841	.70
T-16	Converter Coil; Band #1	51B840	.70
T-18	Oscillator Coil; Band #6	51B839	.70
T-19	Oscillator Coil; Band #5	51B838	.25
T-20	Oscillator Coil; Band #4	51B837	.40
T-21	Oscillator Coil; Band #3	51B836	.40
T-22	Oscillator Coil; Band #2	51B835	.40
T-23	Oscillator Coil; Band #1	51B834	.40
T-24	1st I-F Transformer	50C198	2.50
T-25	2nd I-F Transformer	50C190	3.00
T-26	3rd I-F Transformer	50C197	2.70
T-27	Discriminator Transformer	50C191	2.00
T-28	IFC Transformer	54C032	2.00
T-29	Audio Output Transformer	58B077	2.00
T-30	Power Transformer	52C141	*

CHOKES AND COILS

L-1	R-f choke; oscillator	53B008	.20
L-2	I-f coupling coil	53B104	*
L-3	Filter choke	56B067	1.60
L-4	R-f choke; filament	53B009	.20
L-5	Screen choke	53A117	.20
L-6	Screen choke	53A116	.20
L-7	Cathode Choke	53A118	.20

REPLACEMENT PARTS LIST FOR MODEL SX-42 RADIO RECEIVER

REF. NO.	DESCRIPTION	HALLSCRAFTER'S PART NUMBER	NET PRICE PER COMPONENT
TERMINAL STRIPS			
TS-1	Antenna-ground connections	884567	\$.10
TS-2	Same as TS-1; speaker connections		

METER

M-1	Carrier level; tuning meter	842100	11.00
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CRYSTALS

C-1	455 kc crystal assembly	194189	2.00
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JACKS

J-1	PHONE Jack	36A029	.10
J-2	PHONES Jack	36B030	.75

LINE CORD

	A-c line cord with two prong plug	87A076	.45
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SOCKETS

	Tube sockets; octal type; plain	64035	.10
	Tube sockets; midjet ceramic	64190	.50
	Tube sockets; loktal type; bakelite	64213	.15
	Tube sockets; loktal type; mica	64233	.15
	Pilot light socket; main tuning	64255	.15
	Pilot light socket; logging	64259	.10
	Pilot light socket; bandspread	64260	.15
	Pilot light socket; tuning meter	64262	.15

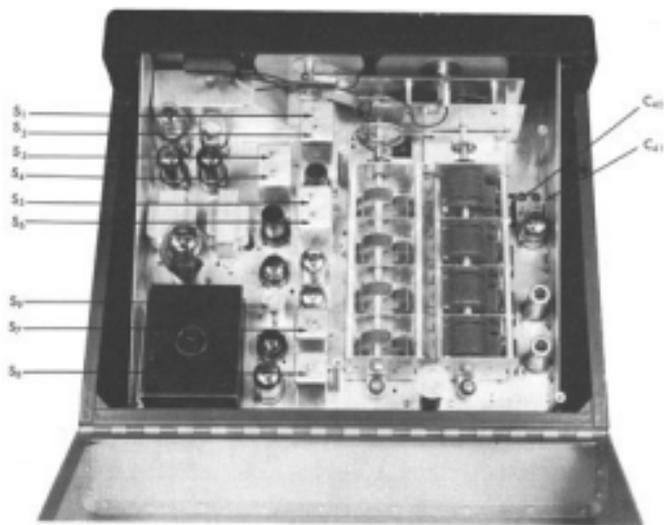
KNOB

	VOLUME control knob assembly	15A060	.50
	FITCH CONTROL and CRYSTAL PHASING knob assembly	15A061	.40
	RECEPTION control knob assembly	15A045	.40
	SELECTIVITY control knob assembly	15A069	.40
	TONE control knob assembly	15A068	.40
	SENSITIVITY control knob assembly	15A064	.40
	BAND SELECTOR control knob assembly	15A087	1.50
	MAIN TUNING knob and dial assembly O-100 Div.	4130433	2.20
	BANDSPREAD knob	15A064	.55

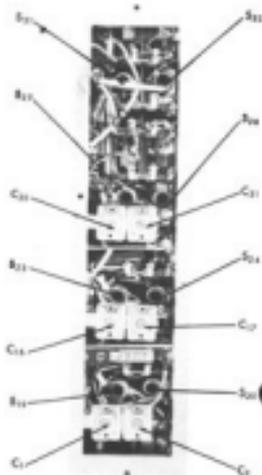
MISCELLANEOUS COMPONENTS

	Tube shield (miniature tube)	69A066	.30
	Adjustable tuning core	77A068	.15
	Gear drive assembly	71C177	22.50
	Main tuning dial	69C095	1.20
	Bandspread dial	69B027	.80
	Bandspread dial escutcheon less window	79C19	.40
	Bandspread escutcheon window	82A160	.10
	Main tuning dial escutcheon less pointer	79C30	2.50
	Main tuning pointer	82A110	.10
	Main tuning escutcheon fastener clip	76A364	.10
	Bandspread escutcheon fastener clip	76A309	.10

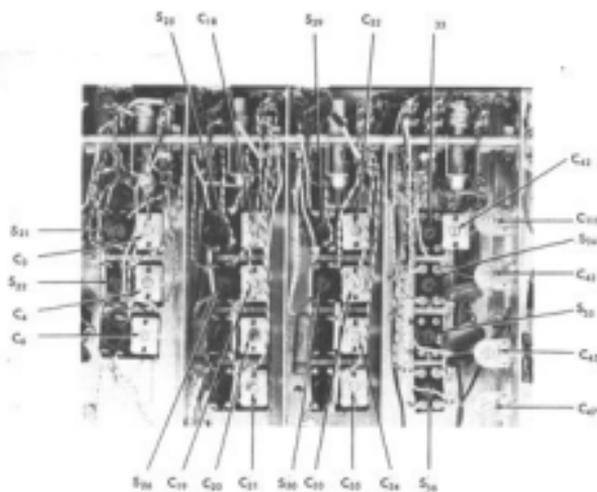
* Prices available on request. Prices subject to change without notice.



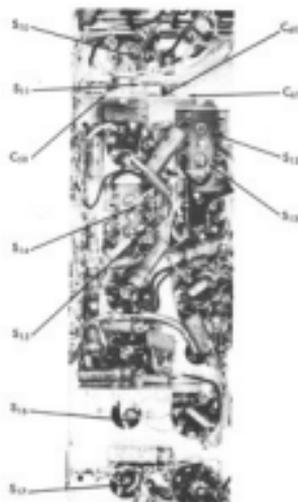
TOP VIEW



SIDE VIEW



BOTTOM VIEW



BOTTOM VIEW

FIG. 5. TOP, BOTTOM AND SIDE VIEWS SHOWING ADJUSTMENT POINTS

ALIGNMENT INSTRUCTIONS

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 antenna—Consisting of a 800 MF cond in series with a 20 uh R.F. choke shunted by a 400 MF condenser in series with 300 OHM resistor.
4. Non-metallic screw driver.
5. One 300 ohm carbon resistor (Dummy ant for bands #5 and 6.)

CONNECTIONS: Connect the generator "cold" lead

to the receiver chassis; the "hot" lead is connected as indicated in the chart.

Connect the output meter across the 300 ohm speaker terminals.

CONTROL SETTINGS: Turn VOLUME control clockwise and allow about 15 minutes for tubes to heat up, then set the receiver controls as follows:

VOLUME	maximum	BANDSPREAD	zero
SENSITIVITY	maximum	RECEPTION	AM
AVC	off	CRYSTAL PHASING	0
NOISE LIMITER	noise limiter, off	CW PITCH	0
*SELECTIVITY	crystal sharp	RECEIVE-STANDBY	receive

* For f-m alignment set RECEPTION control at FM and SELECTIVITY switch at normal broad.

RADIO RECEIVER MODEL SI-49 I-F ALIGNMENT INSTRUCTIONS

455 K.C. I-F ALIGNMENT:

A. Set Controls as follows:

1. Bandswitch on #1 Band.
2. M.T. Dial set to approximately 1 m.c.
3. R. F. gain full on.
4. ANL off, AVC off, Standby on.
5. FM-AM switch on AM.
6. Tone control on HIPI.
7. I.F. Selectivity switch on sharp I.F.

8. Connect output meter to 300 ohm speaker terminal.

B. Connect hot side of signal generator thru a .1 capacitor to the #1 pin of 77B mixer con. stage. Connect cold side of generator to the receiver chassis.

C. Increase generator output until a signal is heard and then align slugs S_1 , S_3 , S_8 , S_{10} , S_{12} , and S_{14} for maximum output.

D. Turn on BFO and adjust pitch control knob to zero and then adjust slug S_9 until the beat note is heard. Continue turning S_9 until the beat note is zero beat with the generator signal.

E. Next adjust pitch control knob until the BFO note is about 1000 cycles off zero beat.

F. Turn selectivity knob to broad crystal and

while slowly adjusting S_{10} , "rock" the signal generator until the output, as observed on the output meter, decreases and then slowly increases. Tune signal generator to the other side of zero beat and adjust crystal phasing knob for the null point.

Crystal phasing is left now in this position for this and following adjustments. At the point of minimum output, the slug S_{10} is correctly set. This occurs between two maximum outputs, one with slug turned further in, and one with slug turned further out.

G. Next turn to sharp crystal and with C_{61} at near minimum capacity, slowly turn trimmer in (increase capacity) while "rocking" the signal generator and adjust for maximum output meter reading. It may be necessary to reduce the set gain to prevent needle on output meter from hitting right hand stop. This is done by turning the A.F. gain control down as well as reducing generator output to prevent overload. Volume control is left full on. After maximum output has been reached from the sharp crystal adjustment, turn trimmer further inward until a drop of about 20dB occurs. At this point the sharp crystal will have a very good selectivity without sacrificing too much gain.

H. Next, tune I-F generator to exact crystal frequency and by using the A.F. gain control, adjust for an output meter reading of about 3/4 of full scale reading. Now turn to broad crystal and note the drop and its reading on the output meter. Then switch to medium crystal and with C_{60} at near minimum capacity, slowly adjust trimmer for increase in capacity, while rocking generator. When the output meter reaches the point that is

about midway between the output reading in sharp crystal and in broad crystal, the medium crystal adjustment is complete.

J. Return to sharp crystal and rock signal

10.7 M.C. I-F ALIGNMENT:

A. Set controls as follows: Bandswitch on #5 Band, M.T. Dial about center scale. FM-AM switch on AM-AML off, AVC off, Tone Control on Hi Fi- AF gain at maximum, S.F. gain at maximum.

B. Same as "D" in 455 K.C. I-F alignment.

C. Increase generator output (set at 10.7 mc) until a signal is heard and adjust slugs S₄, S₅, S₆, S₁₃, S₁₅ for maximum output. As the signal increases, reduce generator output to prevent overloading. After S₄, S₅, S₆, S₁₃, S₁₅ are set for maximum output then set slugs S₇, S₁₁, for maximum output. Do not readjust the slugs S₄, S₅, S₆, S₁₃, S₁₅.

D. With a moderately loud signal now being re-

generator for maximum output (adjust A.F. gain control for a suitable reading). When the signal generator is on exact crystal frequency, switch over to sharp I-F and repeak slugs S₇, S₈, S₉, S₁₂, S₁₄, and C56 for maximum output. Repeat step "D".

ceived, switch over to CW on and adjust slug S₁₇ (after having set the pitch control knob to zero on dial) for zero beat. The EFO adjustment is now complete.

E. Switch to FM position on AM-FM switch and adjust slug S₁₈ for maximum output. Then adjust slug S₇ for null, or minimum output, as indicated on output meter. Next, slowly rock signal generator either side of 10.7 mc and observe the maximum output readings obtained. If the outputs, either side of center are unequal, they may be equalized by adjusting slug S₁₈. When the balance has been obtained the FM adjustment is complete. Note: Make sure that the output meter is not off full scale when checking balance. Control this by reducing A.F. gain control.

R. F. ALIGNMENT

DUMMY ANT. IN SERIES WITH SIG. GENERATOR	CONNECTION OF SIG. GENERATOR OUTPUT TO RECEIVER	SIGNAL GEN. FREQUENCY SETTING	BAND SWITCH SETTING	RECEIVER DIAL SETTING	ADJUST SLOD, PADDER, OR TRIMMER NO.	TYPE OF TRIGGER DESCRIPTION	TYPE OF ADJUSTMENT - MAKE ADJUSTMENT FOR:	BAND STRIP SETTING
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BAND #1 ADJUSTMENT

RMA	A-1 ON ANT. STRIP	1.4 MC	.54-1.62	1.4 MC	C47	osc.	Calibration	At zero
RMA	AND GROUND	.6 MC	.54-1.62	.6 MC	S36	osc.	Calibration	At zero
RMA	"	1.4 MC	.54-1.62	1.4 MC	C6	ant.	Max. Output	At zero
RMA	"	1.4 MC	.54-1.62	1.4 MC	C21	band pass	Max. Output	At zero
RMA	"	1.4 MC	.54-1.62	1.4 MC	C26	mixer	Max. Output	At zero

BAND #2 ADJUSTMENT

RMA	A-1 ON ANT. STRIP	4.0 MC	1.62-5.0	4.0 MC	C45	osc.	Calibration	At zero
RMA	AND GROUND	2.0 MC	1.62-5.0	2.0 MC	S35	osc.	Calibration	At zero
RMA	"	4.0 MC	1.62-5.0	4.0 MC	C20	ant.	Max. Output	At zero
RMA	"	4.0 MC	1.62-5.0	4.0 MC	C24	mixer	Max. Output	At zero

BAND #3 ADJUSTMENT

RMA	A-1 ON ANT. STRIP	14.0 MC	5-15	14.0 MC	C43	osc.	Calibration	At zero
RMA	AND GROUND	7.0 MC	5-15	7.0 MC	S34	osc.	Calibration	At zero
RMA	"	14.0 MC	5-15	14.0 MC	C4	ant.	Max. Output	At zero
RMA	"	14.0 MC	5-15	14.0 MC	C19	r-f	Max. Output	At zero
RMA	"	14.0 MC	5-15	14.0 MC	C29	mixer	Max. Output	At zero
RMA	"	7.0 MC	5-15	7.0 MC	S22	ant.	Max. Output	At zero
RMA	"	7.0 MC	5-15	7.0 MC	S26	r-f	Max. Output	At zero
RMA	"	7.0 MC	5-15	7.0 MC	S30	mixer	Max. Output	At zero

DUMMY ANT. IN SERIES WITH SIG. GENERATOR	CONNECTION OF SIG. GENERATOR OUTPUT TO RECEIVER	SIGNAL GEN. FREQUENCY SETTING	BAND SWITCH SETTING	RECEIVER DIAL SETTING	ADJUST SLUG, PADDER, OR TRIMMER NO.	TRIMMER DESCRIPTION	TYPE OF ADJUSTMENT - MAKE ADJUSTMENT FOR:	BAND SPREAD SETTING
<u>BAND #4 ADJUSTMENT</u>								
RMA	A-1 ON ANT. STRIP AND GROUND	28 MC	15-30	28 MC	C42	osc.	Calibration	Zero
RMA	"	18 MC	15-30	18 MC	S33	osc.	Calibration	Zero
<p>NOTE: With a 28 mc signal from the signal generator, set the band-spread dial to 28 mc and locate the signal with the main tuning dial. This should fall near the 10meter mark on the main tuning dial. Shift generator frequency to 28 mc and locate signal with the B.S. dial. If 28 mc falls low in calibration, trimmer C119 must be increased in capacity, if 28 mc falls high in calibration, C119 must be reduced in capacity. If it is necessary to adjust C119, the above two calibration adjustments must be repeated.</p>								
RMA	A-1 ON ANT. STRIP AND GROUND	28 MC	15-30	10 MET.	C3	ant.	Max. Output	28 MC
RMA	"	28 MC	15-30	B.S. MARK	C18	r-f	Max. Output	28 MC
RMA	"	28 MC	15-30	"	C32	mixer	Max. Output	28 MC
RMA	"	18 MC	15-30	18 MC	S21	ant.	Max. Output	Zero
RMA	"	18 MC	15-30	18 MC	S25	r-f	Max. Output	Zero
RMA	"	18 MC	15-30	18 MC	S29	mixer	Max. Output	Zero

NOTE: The oscillator tracks high on all bands except where dial scale is marked #53035. When this scale is used, the oscillator tracks on the low side on band #4.

BAND #5 ADJUSTMENT

300 ohms	A-1 ON ANT. STRIP AND GROUND	50 MC	28-55	50 MC	C41	osc.	Calibration	Zero
300 ohms	"	30 MC	28-55	30 MC	S32	osc.	Calibration	Zero
300 ohms	"	50 MC	28-55	50 MC	C2	ant.	Max. Output	Zero
300 ohms	"	50 MC	28-55	50 MC	C17	r-f	Max. Output	Zero
300 ohms	"	50 MC	28-55	50 MC	C31	mixer	Max. Output	Zero
300 ohms	"	30 MC	28-55	30 MC	S30	ant.	Max. Output	Zero
300 ohms	"	30 MC	28-55	30 MC	S34	r-f	Max. Output	Zero
300 ohms	"	30 MC	28-55	30 MC	S39	mixer	Max. Output	Zero
NOTE: Remove plate from left side of chassis for Band #5 and #6 R.F. adjustment.								

BAND #6 ADJUSTMENT

300 ohms	A-1 ON ANT. STRIP AND GROUND	105 MC	55-108	105 MC	C40	osc.	Calibration	Zero
300 ohms	"	60 MC	55-108	60 MC	S31	osc.	Calibration	Zero
300 ohms	"	105 MC	55-108	105 MC	C1	ant.	Max. Output	Zero
300 ohms	"	105 MC	55-108	105 MC	C16	r-f	Max. Output	Zero
300 ohms	"	105 MC	55-108	105 MC	C30	mixer	Max. Output	Zero
300 ohms	"	60 MC	55-108	60 MC	S19	ant.	Max. Output	Zero
300 ohms	"	60 MC	55-108	60 MC	S23	r-f	Max. Output	Zero
300 ohms	"	60 MC	55-108	60 MC	S27	mixer	Max. Output	Zero

