

ALIGNMENT PROCEDURE — To set pointer, completely mesh tuning capacitor and align pointer with last reference mark at low frequency end of dial. Volume control should be in maximum clockwise position. Output of signal generator should be no

higher than necessary to obtain an output reading. Low side of signal generator and indicating meter should be connected directly to chassis at all times. Use an insulated screwdriver with 1/6" thick blade for adjusting IF transformers.

	SIGNAL GENERATOR			Dial Setting	Indicating Meter	Adjust	Indication	
	Coupling	Freq.	Modulation					
AM Alignment	1	.01 µf to pin 7 of 12AT7	455 kc	400 cps AM	Point of no interference	AC voltmeter at Audio output	1, 2, 3, & 4	Maximum deflection
	2	220 µpf to AM ant. input	1500 kc	400 cps AM	1500 kc	Same as above	5	Maximum deflection
	3	Same as above	600 kc	400 cps AM	Tune for maximum response	Same as above	6 & 7	Maximum deflection
	4	Same as above	1400 kc	400 cps AM	Tune for maximum response	Same as above	8 & 9	Maximum deflection
	5	Repeat Steps 3 & 4						
	6	Same as above	1400 kc	10 kc AM	Tune for maximum response	Same as above	10	Null
FM Alignment	7	.01 µf to pin 2 of 12AT7	10.7 mc	None	Point of no interference	Neg. DC VTVM across R31	11, 12, 13, 14, 15, & 16	Maximum deflection
	8	Same as above	10.7 mc	None	Same as above	Neg. DC VTVM at junction R62 & R63	17 & 18	Maximum deflection
	9	Same as above	10.7 mc	None	Same as above	Zero center scale DC VTVM at Det. Output	19	Zero volts between positive & negative reading
	10	270 Ω Carbon to FM ant. input	106 mc	400 cps FM + 25 kc	106 mc	AC voltmeter at Audio output	20	Maximum deflection
	11	Same as above	98 mc	Same as above	Tune for maximum response	Same as above	Contract or extend coil spring 21, 22, & 23	Maximum deflection
	12	Same as above	98 mc	400 cps FM + 250 kc	98 mc	Vertical input oscilloscope at Det. Output		Check symmetry of "S" shape

*AC Voltages measured at 1,000 ohms per volt.

DC Voltages measured with vacuum-tube voltmeter.

Socket connections are shown as bottom views.

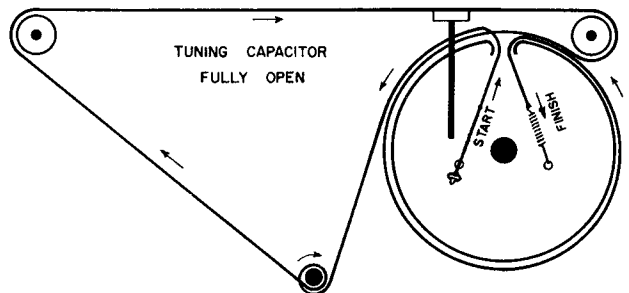
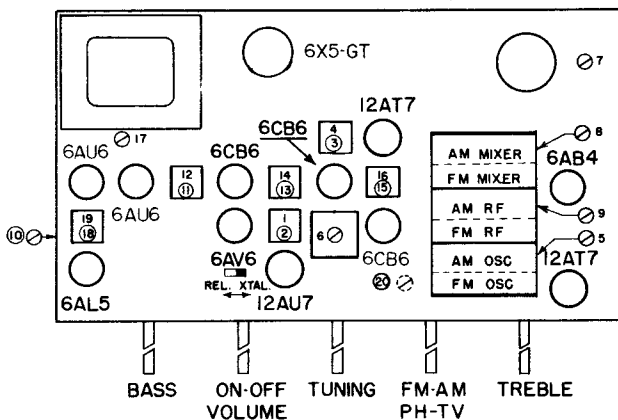
Measured values are from socket pin to common negative.

Line voltage maintained at 117 volts for voltage readings.

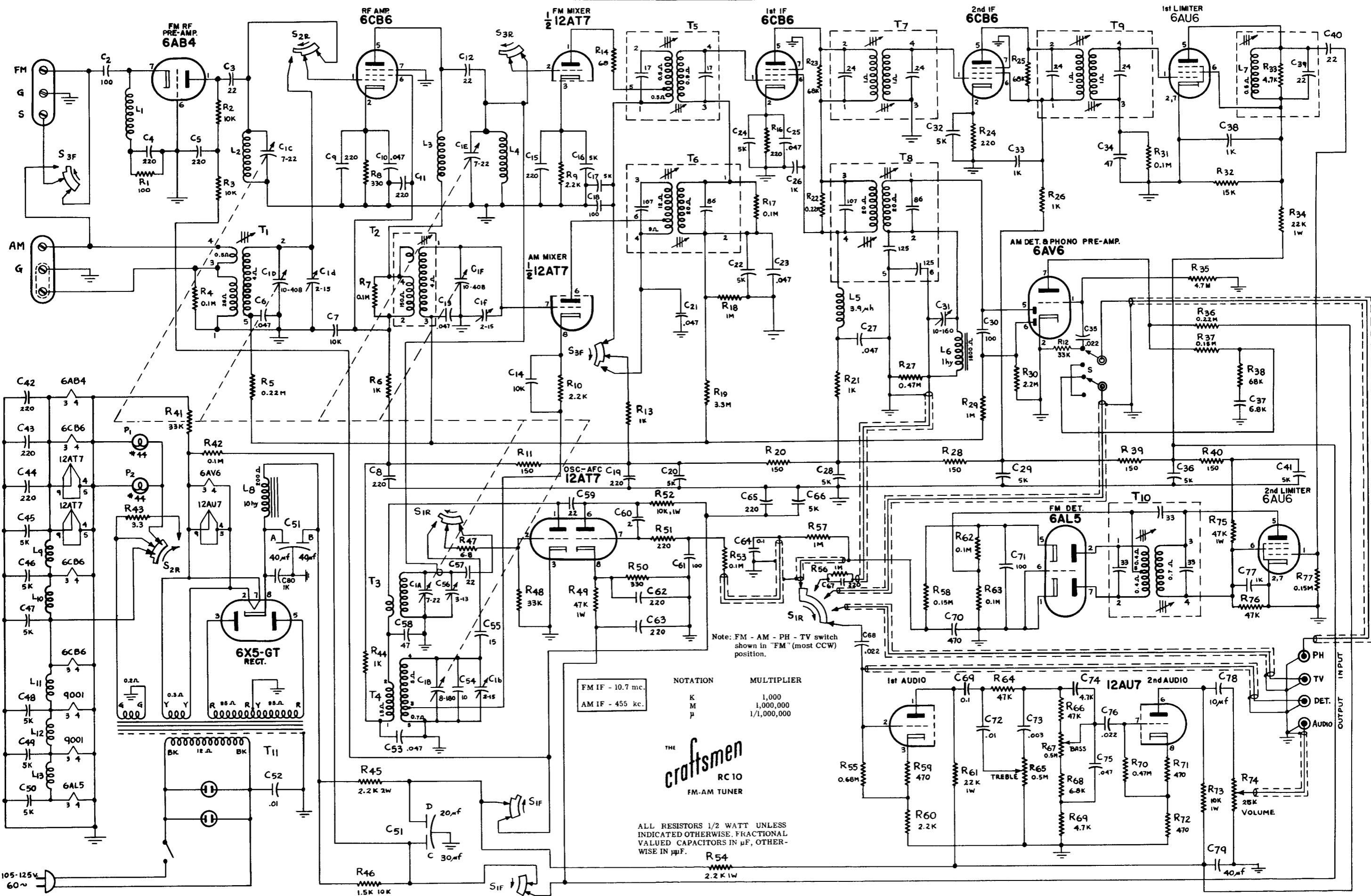
Measurements are with no signal applied and bandswitch in FM position.

TUBE	FUNCTION	PIN 1	PIN 2	PIN 3	PIN 4	PIN 5	PIN 6	PIN 7	PIN 8	PIN 9
6AB4	FM RF Preamp.	95	0	6.3*	0	0	0	0.5	--	--
6CB6	RF Amp.	0	2.5	0	6.3*	137	137	0	--	--
12AT7	Mixer	145	0	2.8	0	0	0	-1.0	0	6.3*
12AT7	Osc. & AFC	137	-2.0	0	0	0	156	0	2.1	6.3*
6CB6	1st IF Amp.	-0.2	1.9	6.3*	0	140	140	0	--	--
6CB6	2nd IF Amp.	0	2.0	6.3*	0	142	142	0	--	--
6AU6	1st Limiter	-0.4	0	6.3*	0	40	40	0	--	--
6AU6	2nd Limiter	-0.6	0	6.3*	0	36	36	0	--	--
6AL5	FM Det.	0	-2.0	6.3*	0	0	0	-1.8	--	--
6AV6	AM Det. & Phono Amp.	-0.83	0	55	55	-0.5	-0.7	77	--	--
12AU7	Audio Amp.	85	7.2	10	55	5	115	2.3	5.2	55
6X5GT	Rectifier	--	55	207*	--	207*	--	55	235	--

(ENCIRCLED ALIGNMENT POINTS ARE BENEATH CHASSIS)



Dial Cord Drive.



FM IF - 10.7 mc.
 AM IF - 455 kc.

NOTATION	MULTIPLIER
K	1,000
M	1,000,000
μ	1/1,000,000

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 RC 10
 FM-AM TUNER

ALL RESISTORS 1/2 WATT UNLESS INDICATED OTHERWISE. FRACTIONAL VALUED CAPACITORS IN μF, OTHERWISE IN μμF.

Note: FM - AM - PH - TV switch shown in "FM" (most CCW) position.

REPLACEMENT PARTS LIST

Part No.	Ref. No.	Description	Part No.	Ref. No.	Description
CAPACITOR, Ganged Tuning			5X406	L9, L10, L11, L12, L13	1.0 μ h Choke
17S007	C1A	7-22 μ mf,	5X409	L1	0.2 μ h Choke
	C1B	8-180 μ mf,	19S405	L8	10 h Filter Choke
	C1C	7-22 μ mf,	19S406	L6	1 h, 10 kc Filter
	C1D	10-408 μ mf,	RESISTORS		
	C1E	7-22 μ mf,	RC20AE6R8K	R47	6.8 Ω , 1/2w,
	C1b	2-15 μ mf, AM Osc. Mica Trimmer	RC20AE680K	R14	68 Ω , 1/2w,
	C1d	2-15 μ mf, AM RF Mica Trimmer	RC20AE101K	R1	100 Ω , 1/2w,
	C1f	2-15 μ mf, AM Conv. Mica Trimmer	RC20AE151K	R11, R20, R28, R39, R40	150 Ω , 1/2w,
CAPACITORS, Ceramic			RC20AE221K	R16, R24, R51	220 Ω , 1/2w,
17X402	C56	1-6 μ mf, 500v,	RC20AE331K	R8, R50	330 Ω , 1/2w,
CC20CK2R0D	C50	2 μ mf, 500v,	RC20AE471K	R59, R71, R72	470 Ω , 1/2w,
CC20SL100M	C54	10 μ mf, 500v,	RC20AE102K	R6, R13, R21, R26, R44	1K Ω , 1/2w,
CC20SL150M	C55	15 μ mf, 500v,	RC20AE222K	R9, R10, R60	2.2K Ω , 1/2w,
CC20SL220M	C3, C12, C40	22 μ mf, 500v,	RC20AE472K	R33, R69	4.7K Ω , 1/2w,
CC20CK220M	C39, C57, C59	22 μ mf, 500v,	RC20AE682K	R68	6.8K Ω , 1/2w,
CC20UK470M	C34, C58	47 μ mf, 500v,	RC20AE103K	R2, R3	10K Ω , 1/2w,
CC20SL101M	C2, C18, C30, 100	μ mf, 500v,	RC20AE153K	R32	15K Ω , 1/2w,
CC20SL221M	C61, C71		RC20AE333K	R12, R41, R48	33K Ω , 1/2w,
	C4, C5, C8, 220	μ mf, 500v,	RC20AE473K	R64, R66, R76	47K Ω , 1/2w,
	C9, C11, C15, C19, C42, C43, C44, C62, C63, C65, C67		RC20AE683K	R23, R25, R38	68K Ω , 1/2w,
CC25SL471K	C70	470 μ mf, 500v,	RC20AE104K	R4, R7, R17, 0.1M	Ω , 1/2w,
CC20SL102M	C26, C33, 1000	μ mf, 500v,	RC20AE154K	R31, R42, R53, R62, R63	0.15M Ω , 1/2w,
18X701	C38, C77, C80		RC20AE224K	R5, R22, R36	0.22M Ω , 1/2w,
	C16, C17, 5000	μ mf, 500v,	RC20AE474K	R27, R70	0.47M Ω , 1/2w,
	C20, C22, C24, C28, C29, C32, C36, C41, C46, C47, C45, C48, C49, C50, C66, C7, C14	10,000 μ mf, 500v,	RC20AE684K	R55	0.68M Ω , 1/2w,
18X704			RC20AE105K	R18, R29, R56, R57	1M Ω , 1/2w,
CAPACITORS, Mica			RC20AE225K	R30	2.2M Ω , 1/2w,
17X205	C31	10-160 μ mf, 300v,	RC20AE335K	R19	3.3M Ω , 1/2w,
CM30A472K	C74	.0047 μ f, 300v,	RC20AE475K	R35	4.7M Ω , 1/2w,
CM30A682K	C37	.0068 μ f, 300v,	RC30AE222K	R54	2.2K Ω , 1w,
CM30A332K	C73	.0033 μ f, 300v,	RC30AE103K	R52, R73	10K Ω , 1w,
CAPACITORS, Paper			RC30AE223K	R34, R61	22K Ω , 1w,
CP10M4103M	C72	.01 μ f, 400v,	RC30AE473K	R49, R75	47K Ω , 1w,
CP10M6103M	C52	.01 μ f, 600v,	RC40AE222K	R45	2.2K Ω , 2w,
CP10M4223M	C35, C38, C76	.022 μ f, 400v,	RW03R3K	R43	3.3 Ω , 1/2w,
CP10M4473M	C6, C10, C13, C21, C23, C25, C27, C53	.047 μ f, 400v,	RWX152K	R46	1.5K Ω , 10w,
CP10M4473K	C75	.047 μ f, 400v, \pm 10%	23S715	R67	0.5M Ω , 1/4w, Carbon Potentiometer
CP10M4104M	C64, C69	0.1 μ f, 400v,	23S716A	R74	25K Ω , 1/4w, Carbon Potentiometer and Switch
CAPACITORS, Electrolytic			23S717	R65	0.5M Ω , 1/4w, Carbon Potentiometer
18X023	C78	10 μ f, 250v,	SWITCHES		
18S022	C51A	40 μ f, 300v,	4S006	S1, S2, S3	4 Pos., 3 section Band Switch
	C51B	40 μ f, 300v,	4S007	S	DPDT Slide Switch
	C51C	30 μ f, 300v,	TRANSFORMERS		
18X027	C51D	20 μ f, 300v,	5X005	T10	10.7 mc FM Discriminator
	C79	40 μ f, 250v,	5X013	T5	10.7 mc FM Converter
PILOT LIGHTS			5X014	T7, T9	10.7 mc FM IF
15X003	P1, P2	No. 44 Pilot Light	5X015	T6	455 kc AM Converter
COILS & CHOKES			5X016	T8	455 kc AM IF
5A209	L4	FM Conv. Coil	5A208	T3	FM Osc.
5A210	L2	FM RF Coil	5A218	T4	AM Osc.
5S402	L3, L5	3.3 μ h Choke	5A219	T2	AM RF
5X017	L7	FM Limiter Coil	5A220	T1	AM Ant.
			19S208	T11	Power Transformer

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