

SET 824 FOLDER 5

GENERAL ELECTRIC MODELS
RP2260A/90A/91A/91B (Ch. 17/A, TU222-2)

PHOTOFACT® Folder

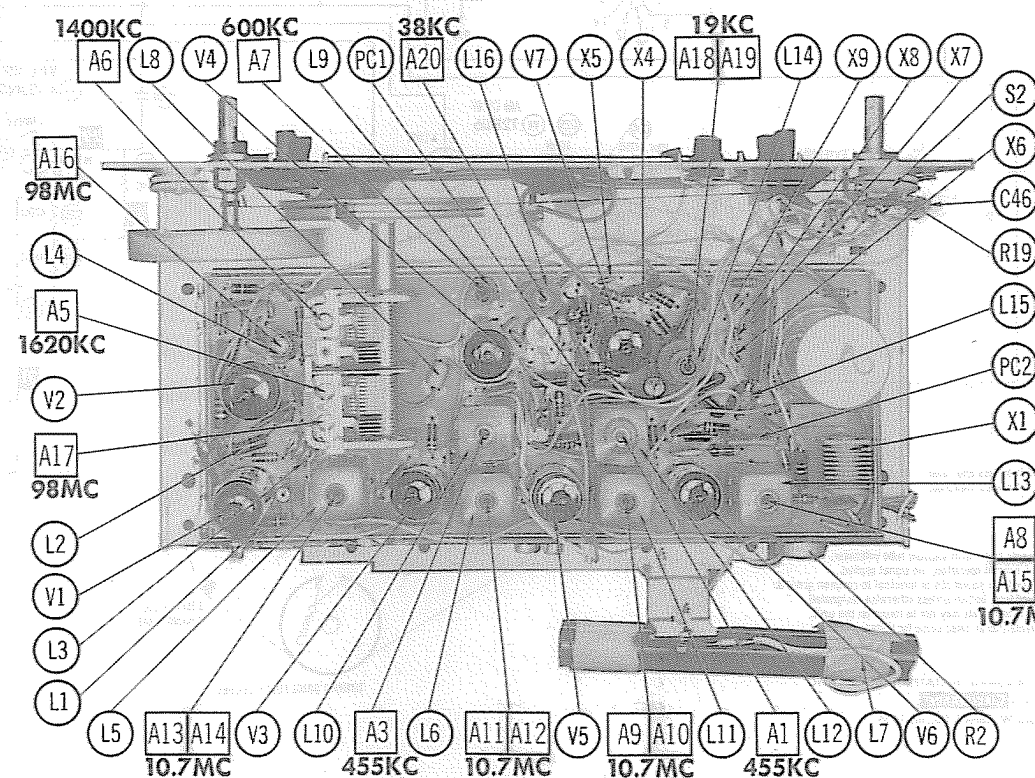
with CIRCUITRACE™

GENERAL ELECTRIC MODELS
RP2260A/90A/91A/91B (Ch. 17/A, TU222-2)



TRADE NAME:	General Electric Models:	Tuner Chassis:	Amp. Chassis:
	RP2260A	TU222-2	T7 or T7A
	RP2290A	TU222-2	T7 or T7A
	RP2291A RP2291B	TU222-2	T7 or T7A
SUPPLIER:	For Current Address, See Annual Index.		
TYPE SET:	7 Tube AM-FM-FM Stereo Tuner, 12 Transistor Amplifier, 2 Transistor Pre-Amp. Chassis		
POWER SUPPLY:	105-120 Volts AC, 60 Cycles	RATING: 27 Watts, .27 Amp. @ 117 Volts AC (Tuner) 4 Watts .070 Amp. @ 117 Volts AC (Amplifier)	
TUNING RANGE:	BROADCAST 535-1620KC	FREQ. MOD: 88-108MC	

FOR SERVICE INFORMATION ON RECORD CHANGER RD125-1—SEE PHOTOFACT SET 711, FOLDER 6.
FOR CH 95—SEE PHOTOFACT SET 638, FOLDER 7.



HOWARD W. SAMS & CO., INC. Indianapolis, Indiana 46206



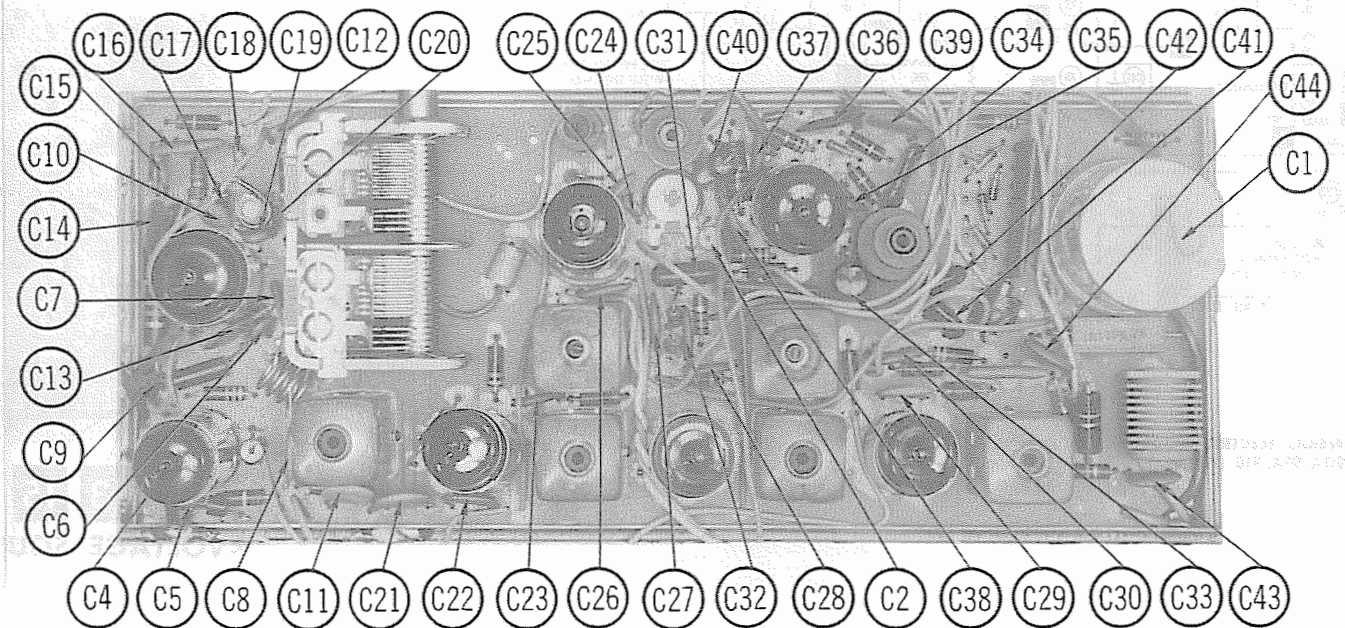
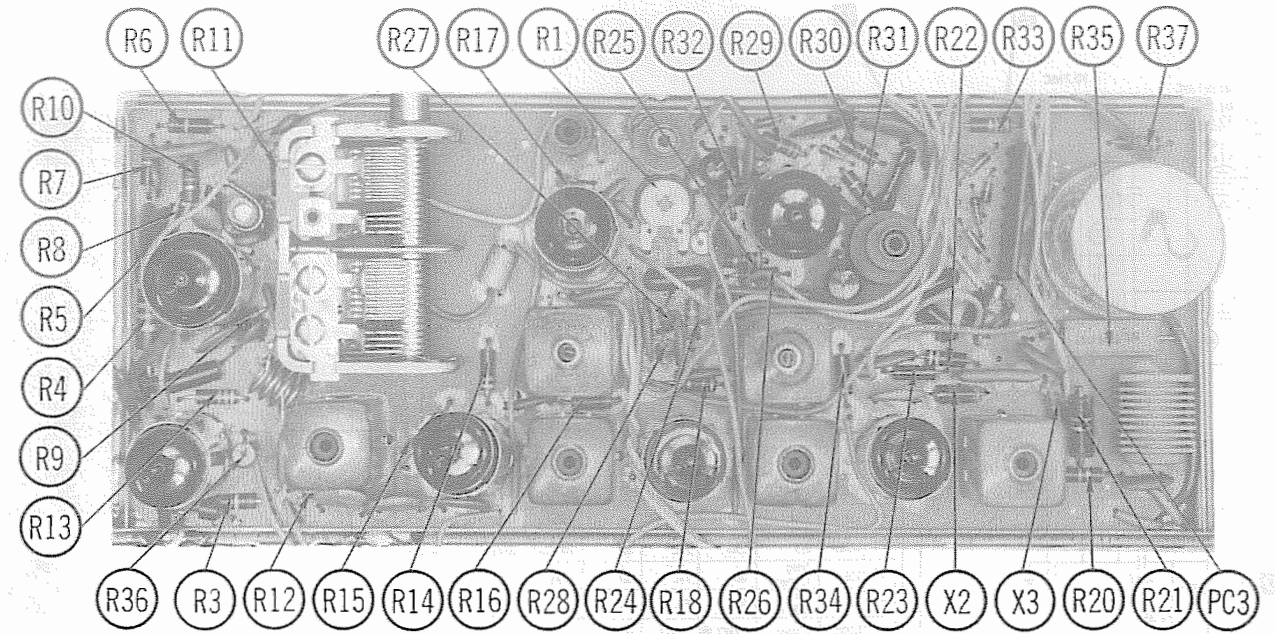
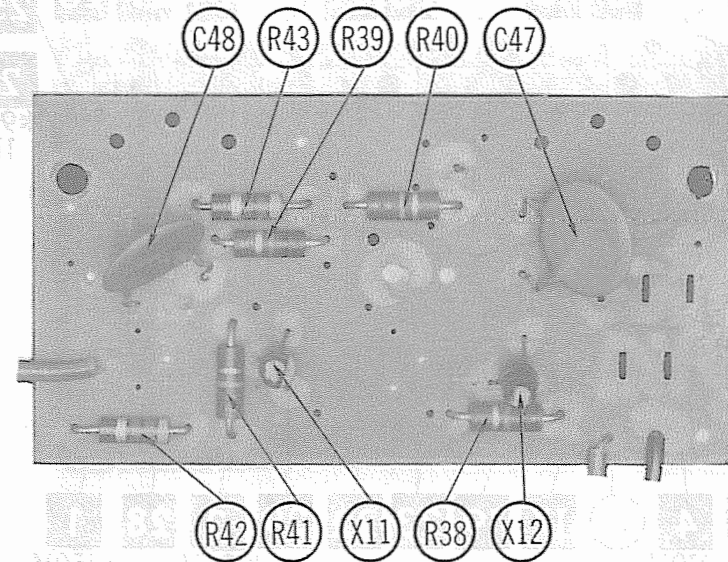
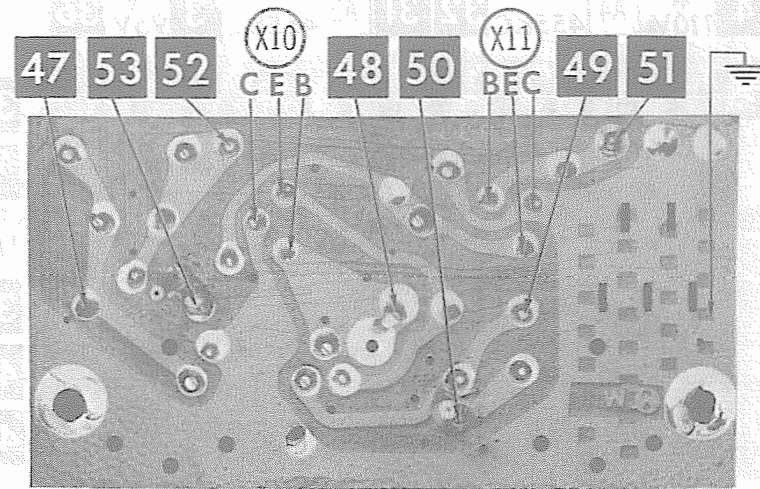
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. NN691

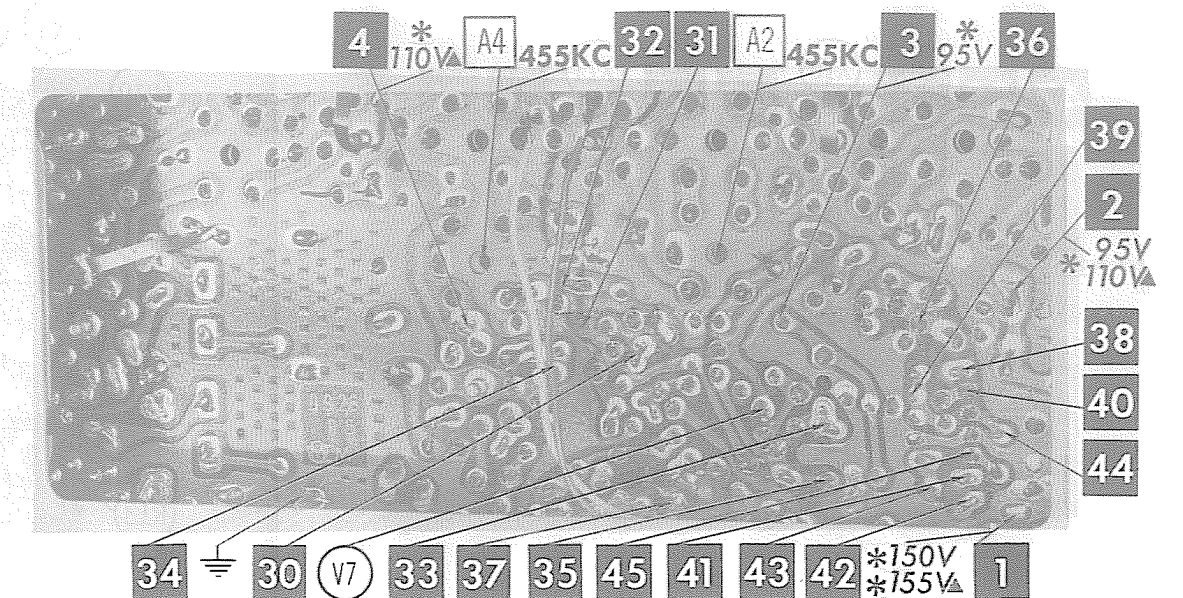
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GENERAL ELECTRIC MODELS
RP2260A/90A/91A/91B (Ch. 17/A, TU222-2)

SET 824 FOLDER 5





AMP PARTS LIST (CONTINUED)
CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.
C73	.1 16V		TTD-1	CK-104	HOV101ZV104Z		TA010	TG-P10
C74	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C75	.01		BPD-01	DD-103	BYV102ZU103M	CCD-103	B110	5HK-S10
C76	470 1.4KV			C1-471				
C77	.015		BPD-02	DD-203	BYT601ZU203Z	CCD-203	B120	5HK-S20

† Alternate Value.

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA					
			G. E. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.	
R45A	Loudness/Right	500K	RS6337 (133B9562-3)	F50-500K, RS6-500K, SRS012†, CPL-2		B20-133XX, B20-133XX, SK1†, QCM	FA65DT334, RU55DT334, CS3500†	
B	Loudness/Left	150K Tap 300K Tap 500K						
R46	Balance	150K Tap 300K Tap 750K	RS6336 (133B9562-0)	F1-750K, SNK012†	A47-750K-S, RN-3†, TT-2 or (NP-750K-S, UP-A-400†, TT-2)	B11-136, TM4† or (BU11, CF64, SS6†)*	PTA754L† or (UA16L, SN1000†)	
R47A	Treble/Right	100K	RS6335 (133B9562-5)	F1-100K, R1-100K, SRS012†, CPL-2	NP-100K-S, NR-100K-S, UP-A-400†, DC-2, TT-2	B11-128, B11-128, SK1†, QCM or (BU11, CF13, CR8, SS6†, SS7A, DC1)*	FB15L, RU15L, CS3500†	
B	Treble/Left	100K						
R48A	Bass/Right	500K	RS6334 (133B9562-6)	F2-500K, R2-500K, SRS012†, CPL-2	NP-500K-7, NR-500K-2, UP-A-400†, DC-2, TT-2	B13-133, B13-133, SK1†, QCM or (BU11, CF25, CR20, SS6†, SS7A, DC1)*	FB55A, RU55A, CS3500†	
B	Bass/Left	500K						

* "SNAPTROL" † File shaft to duplicate original.

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	G. E. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	117V AC @ .070AAC	40V AC CT @ .15AAC		RS-6345 (134B1008-4)					

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				G. E. PART No.	QUAM PART No.	
SP1	8"	PM	16Ω	RB1657 (933C575-2)	30A05Z16	
SP2	3"	PM	16Ω	RB1658 (933C398-1)		
SP3	8"	PM	16Ω	RB1657 (933C575-2)	30A05Z16	
SP4	3"	PM	16Ω	RB1658 (933C398-1)		

PHONO CARTRIDGE & NEEDLES

*NEEDLE LISTINGS SHOWN ARE FOR RESPECTIVE REPLACEMENT CARTRIDGES ONLY.

ITEM No.	REPLACEMENT DATA								NOTES
	G. E. PART No.		ASTATIC PART No.		ELECTRO-VOICE PART No.		SONOTONE PART No.		
	CARTRIDGE	NEEDLE*	CARTRIDGE	NEEDLE*	CARTRIDGE	NEEDLE*	CARTRIDGE	NEEDLE*	
M1	RS6527	RS6528*	349D	N74SD*					
				N362SD		2744			Needle replacement for Original Cartridge.
	RS6295	RS4634*	135DA	N41SD*	149D	2622DS*			Alternate, may be used in some Models.
				N360SD		2741DS			Needle replacement for Original Cartridge.

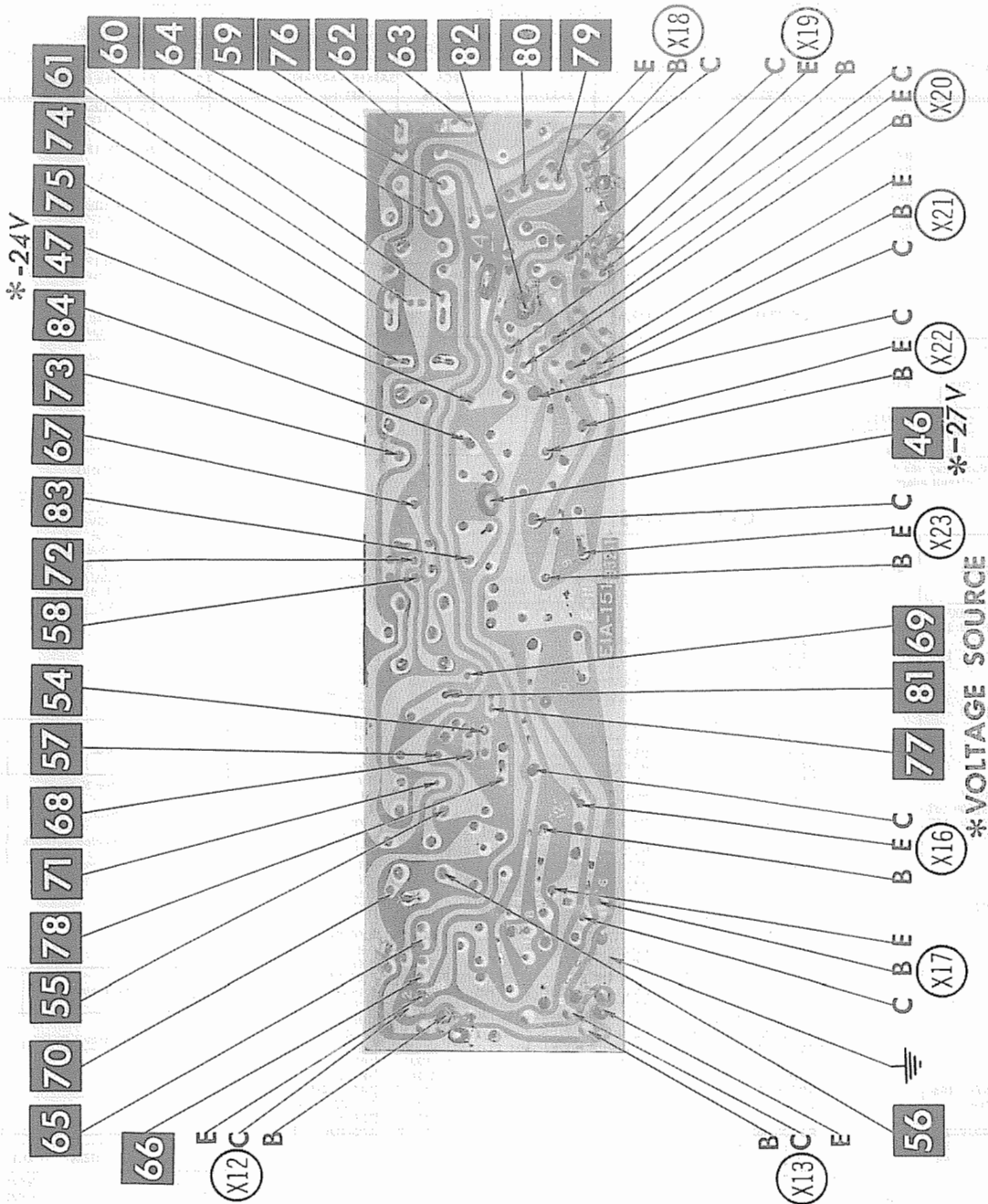
FUSE DEVICES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
F1	3AG Slo-Blo	3/4 Amp. @ 125V	EA1055†		313.750		MDL 3/4	

† Early production models may use 1/2 Amp. Fuse.

MISCELLANEOUS

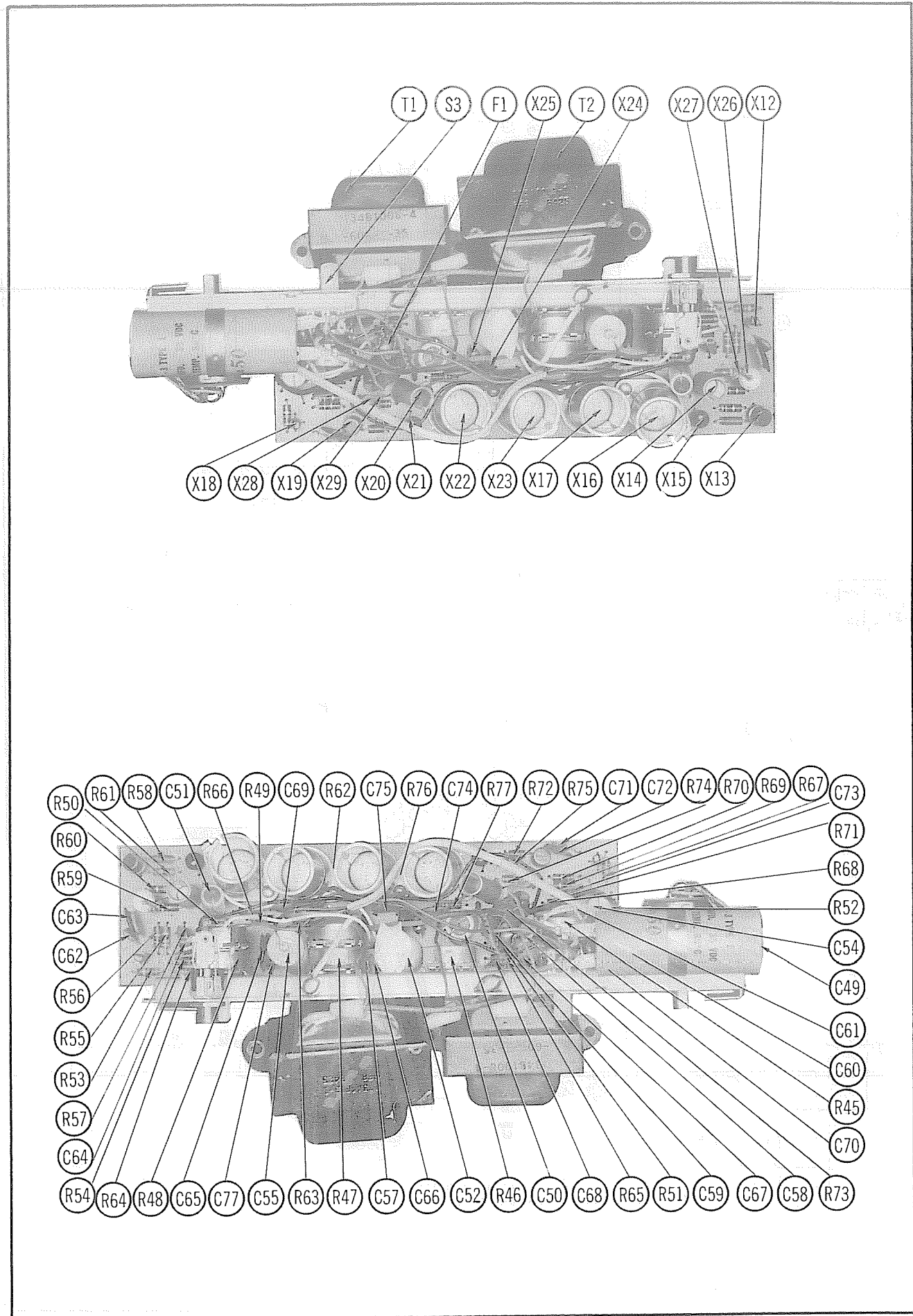
ITEM No.	PART NAME	G. E. PART No.	NOTES
M2	Motor		
S2	Switch	RS6583	Phono. Off/On-Phono-Tuner
S3	Switch	RS6338	Bass Boost
S4	Switch		On/Off/Phono
	Printed Circuit Board	RS9898	Less Components (Amplifier)



GENERAL ELECTRIC MODELS
RP2260A/90A/91A/91B (Ch. 17/A, TU222-2)

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FOLDER 5



ALIGNMENT INSTRUCTIONS

Maintain line voltage at 117 volts. Use only enough generator output to obtain a suitable indication. Allow a 15 minute warmup for receiver and equipment.
CAUTION: Use isolation transformer, if available. If not, observe polarity when connecting test equipment.
Suggested Alignment Tools:
A1 thru A4, A8 thru A15, A17 thru A20. GENERAL CEMENT: 8606, 8606L, 8889 WALSCO: 2511, 2543, 2588
A5, A6, A7, A16. GENERAL CEMENT: 9087 WALSCO: 2528

AM ALIGNMENT - SELECTOR IN AM POSITION

Fashion loop of several turns of wire and connect generator across loop. Set volume control at maximum.				
GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. 455KC (400v Mod.)	Tuning gang fully open.	Output Meter across Voice coil.	A1, A2, A3, A4.	Adjust for maximum. Repeat until no further improvement can be made.
2. 1620KC	"	"	A5.	Adjust for maximum.
3. 1400KC	Tune to signal.	"	A6.	"
4. 600KC	"	"	A7.	Rock tuning gang and adjust for maximum. Repeat steps 2 thru 4 until no further improvement can be made.

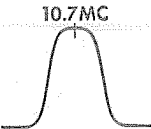


FIG. 1

FM ALIGNMENT USING AM SIGNAL GENERATOR - SELECTOR IN FM POSITION

High side to ungrounded shield over FM converter tube, low side to ground.				
GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. 10.7MC (Unmod.)	Point of non-interference.	DC probe of VTVM to point A; common to ground.	A8, A9, A10, A11, A12, A13, A14.	Adjust for maximum.
6. "	"	DC probe to point A; common to ground.	A15.	Adjust for zero reading. A positive or negative reading will be obtained on either side of the correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR - SELECTOR IN FM POSITION

High side to ungrounded shield over FM converter, low side to ground. Use only enough marker signal to obtain indication. Use 60v frequency modulated signal with 450KC sweep. Use 120v sawtooth voltage in scope for horizontal deflection.				
GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. 10.7MC (450KC Swp.)	Point of non-interference	Vert. amp. of Scope to point A; low side to ground.	A8, A9, A10, A11, A12, A13, A14.	Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown.
6. "	"	Vert. amp. to point A; low side to ground.	A15.	Adjust A15 (Secondary) to place marker at center of crossover lines similar to Fig. 2. Adjust A8 (Primary) for maximum amplitude and straightness of crossover lines.

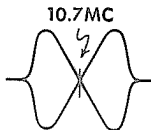


FIG. 2

FM RF ALIGNMENT

Connect generator across antenna terminals with 120Ω carbon resistors in series with each lead.				
GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
7. 98MC	98MC	DC probe of VTVM to point A; common to ground.	A16.	Adjust for maximum.
8. 98MC	Tune to signal.	"	A17.	Rock tuning and adjust for maximum. Repeat steps 7 and 8 until no further improvement can be made.

FM STEREO MULTIPLEX ALIGNMENT USING FM STEREO SIGNAL GENERATOR (± .0001% ACCURACY)

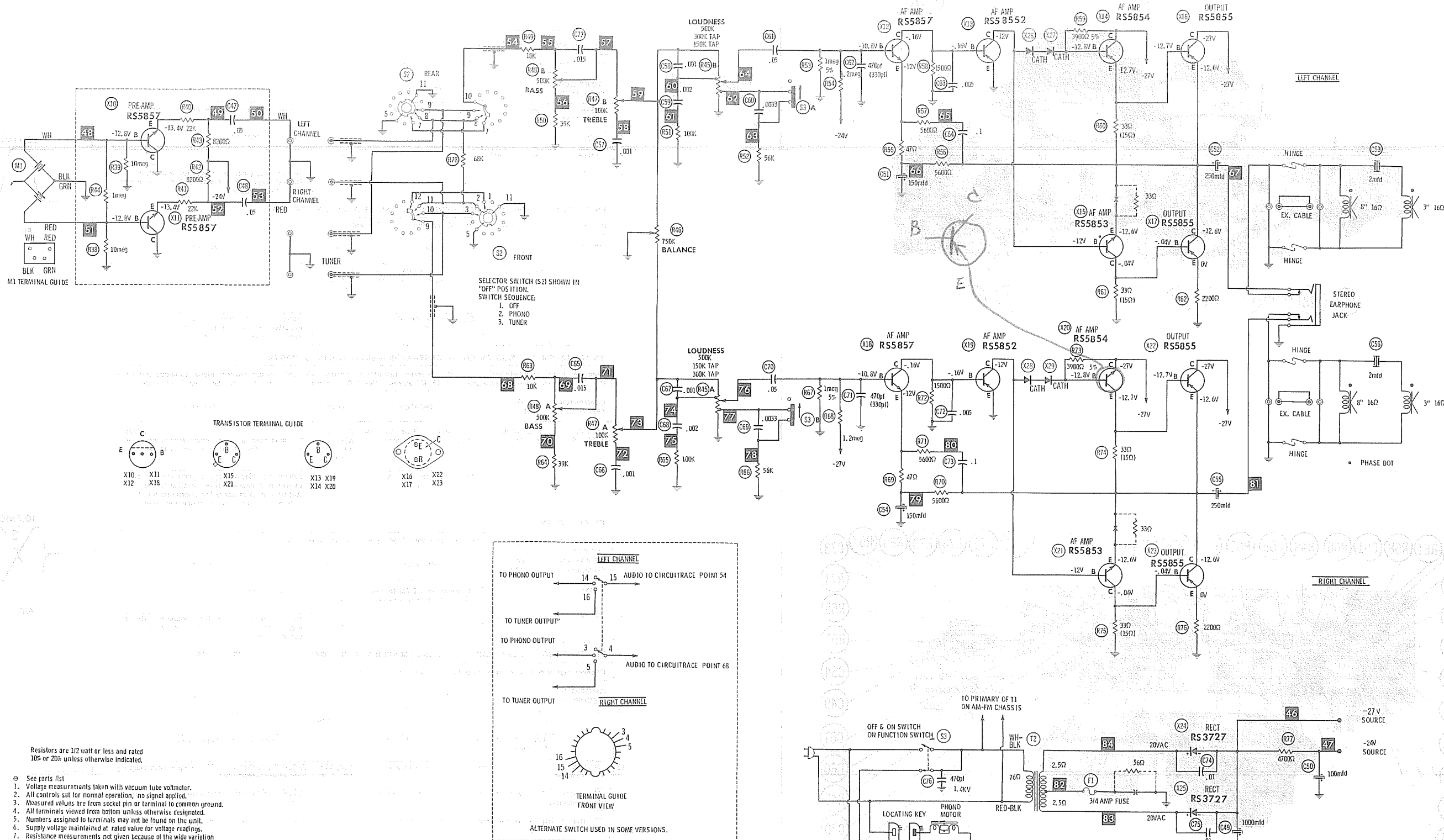
Connect high side of generator to point A; low side to ground.			
GENERATOR FREQUENCY	INDICATOR	ADJUST	REMARKS
9. 19KC	Vert. amp. thru 47K to point C; low side to ground.	A18, A19.	Adjust for maximum.
10. "	Vert. amp. thru 47K to point D; low side to ground.	A20.	Adjust maximum for 38KC response.
11. Modulated Left Channel	Vert. amp. to point E; low side to ground.	A18, A19, A20 & R1.	Adjust for MINIMUM. This step should require only slight adjustment.
13. Modulated Right Channel	Vert. amp. to point F; low side to ground.		Check for MINIMUM. Make compromise adjustments of A19, A20, A21 and R1, if necessary.
To align multiplex section using an air signal, first make sure FM section is properly aligned. Tune in a strong FM stereo signal. Follow steps 9 thru 12 above.			

STEREO INDICATOR ADJUSTMENT:

Tune in a known stereo station and adjust Threshold Control R2 until indicator lamp just glows. Turn off, station lamp should extinguish.

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RP2260A/90A/91A/91B (Ch. 17/A, TU222-2)

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Resistors are 1/2 watt or less and rated 10% or 20% unless otherwise indicated.

- See parts list
- Voltage measurements taken with vacuum tube voltmeter.
- All controls set for normal operation, no signal applied.
- Measured values are from socket pin or terminal to common ground.
- All terminals viewed from bottom unless otherwise designated.
- Numbers assigned to terminals may not be found on the unit.
- Supply voltage maintained at rated value for voltage readings.
- Resistance measurements not given because of the wide variation in internal resistance of transistor.

A PHOTOFACT STANDARD NOTATION SCHEMATIC

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GENERAL ELECTRIC MODELS
RP2260A/90A/91A/91B (Ch. 17/A, TU222-2)

FOLDER 5

TUNER PARTS LIST

TUBES

* AMPEREX *			* GENERAL ELECTRIC *			* RCA *			* SYLVANIA *		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	FM RF Amp.	6GM6	V5	AM IF-2nd, FM IF Amp.	12BA6	V6	AM Det-FM Limiter	12AU6	V7	MPX Amp.-36KC Amp.	12JN8
V2	FM Mixer-FM-AFC-Osc.	6EZ8									
V3	1st. FM IF Amp.	12AU6									
V4	AM Converter	12BE6									

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X1	.045A	RS3727	GE-504A or GE-505①	5A4-D or SD500①	1N540 or 1N2070①	SK-3016 or SK-3017①	F-4 or 40C①
X2		RS2001	IN60	IN541			
X3		RS2001	IN60	IN541			
X4		RS4029	IN34AS	IN34A			
X5		RS4029	IN34AS	IN34A			
X6		RS2001	IN60	IN541			
X7		RS2001	IN60	IN541			
X8		RS2001	IN60	IN541			
X9		RS2001	IN60	IN541			

① When replacing selenium rectifier with silicon type, add series resistance to obtain original output voltage.

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	G. E. PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.	
C1A	100	200	RS6318	AFHS2-24-20②	BB0252②	XC2-38②	FP217.865②	TVL-2664②	
B	100	200	(112B3836P2)						
C2	5	64	①	CRE904A	NLW5-150	MT1-4	TT100X5	TE-1404	

① Some versions may use 4mfd @ 64 Volts, Part #RS6317.

② Use printed circuit adapters.

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA						
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.	
C3	470	1.4KV	#RS6313						
C4	10	N150 10%							
C5	470								
C6	10	NPO 10%							
C7	.001								
C8	.005								
C9	220								
C10	3	N750 ±.25							
C11	.005								
C12	.001								
C13	.01								
C14	.01								
C15	.001								
C16	.1	100V							
C17	47	N1500 10%							
C18	10	N750 10%							
C19	5	N750 5%							
C20	.001								
C21	.005								
C22	.01								
C23	.01								
C24	10	N750 5%							
C25	100	N1500							
C26	.02								
C27	.05								
C28	.02								
C29	.005								
C30	.01								
C31	.0039	50V							
C32	.01								
C33	.004								
C34	.001								
C35	.330								
C36	.02								
C37	.47	NPO 10%							
C38	.1	100V							
C39	.02								
C40	.002	400V 5%							
C41	400	5%							
C42	400	5%							
C43	.01								
C44	.01								
C45									
C46	.01		RS4359						

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.

General Electric Part Number.

CONTROLS

All wattages 1/2 watt, or less, unless otherwise listed.

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			G. E. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Balance	6000Ω	RS6321 (173A4409-B)			U201R103B	MTCC3L4
R2	Threshold	4000Ω 2W	RS4830 (173A3913-1)	V-4000	U39-4000	112-4000 or (117R502A)	MR4000F

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	G. E. PART No.			IRC PART No.	WORKMAN PART No.	G. E. PART No.
R35	1000Ω 3W	PW5-1000	5W-SQ-1000						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				
		G. E. PART No.	MEISSNER Part No.	MERIT PART No.	MILLER PART No.	WORKMAN PART No.
L1	FM Antenna (7 turns)	RS4830				
L2	RF Choke (22 turns)	RS3707	19-2006	BC-560	4500	T803
L3	FM RF	RS4931				
L4	FM Oscillator	RS4832				
L5	1st. FM IF	RS4368 (933C251-1)	16-3490	FM-250	1463-PC	T654
L6	2nd. FM IF	RS4369 (933C252-1)	16-3490	FM-250	1463-PC	T654
L7	Loopstick	RS2814	14-7002	BC-419	705-A	T561
L8	RF Choke	RS1328			74F276AP	T814
L9	AM Oscillator	RS4360			7762	
L10	1st. AM IF	RS2807	16-6786 *	BC-356 *	16-PC9 *	T646*
L11	3rd. FM IF	RS4370 (933C252-2)	16-3490	FM-256	1463-PC	T654
L12	2nd. AM IF	RS2807	16-6787 *	BC-357 *	16-PC10 *	T647 *
L13	Discriminator	RS4371 (933C253-1)	17-3491	FM-280	1464-PC	T658
L14	19KC	RS4033				
L15	67KC Trap	RS4035				
L16	38KC Output	RS4034				

* Clip off extra mounting lug.

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	G. E. PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117V AC @ .27A	143V AC @ .065A DC Tap @ 12.6V AC @ 1.8A AC		RS6323 (173A4089-1)					Used in Models: RP2290A/2291A, B only.

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	G. E. PART No.	REPLACEMENT DATA
PC1	AM Detector Network	4700Ω, 100K, 220K, 1meg, 33pf, 470pf	RS4365 (145A9783)	
PC2	Discriminator Network	56K, 56K, 100K, 56pf, 680pf	RS4364 (145A9225-2)	Centralab PC-472
PC3	Stereo Detector Network	2200Ω, 2200Ω, 2200Ω, 2200Ω, 22K, 22K, 22K, 22K, .0039mfd, .0039mfd	RS6320 (173A3967)	

MISCELLANEOUS

ITEM No.	PART NAME	G. E. PART No.	NOTES
S1	Switch Printed Circuit Board	RS6322 RS9896	Function Less Components.

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM	MODEL	PART No.	ITEM	MODEL	PART No.
Cabinet	RP2260	RS9945	Knob-Balance, Bass, Loudness and Treble	RP2291A/B	RS6578
Cabinet	RP2290	RS9940	Knob-Selector	RP2290	RS6577
Cabinet	RP2291A/D	RS9939	Knob-Selector	RP2291A/B	RS6579
Knob-Balance, Bass, Loudness and Treble.	RP2260	RS6591	Knob-Speaker	RP2291B	RS4011
Knob-Balance, Bass, Loudness and Treble	RP2290	RS6576			

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft. 17109 (Plastic) or 17129 (Rubber) - 9 Ft.
Power Cord (Interlock Type)	Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)

PREAMP PARTS LIST

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X10	RS5857	Phono Pre-Amp.	DS-46	GE-10	SK-3020	NPN
X11	RS5857	Phono Pre-Amp.	DS-46	GE-10	SK-3020	NPN

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCO PART No.	MALLORY PART No.	SPRAGUE PART No.
C47	.05	50V	TTD-05		HOV101ZV503Z			
C48	.05	50V	TTD-05		HOV101ZV503Z		TA150	TH-S50

MISCELLANEOUS

ITEM No.	PART NAME	G. E. PART No.	NOTES
	Printed Circuit Board	RS123	Less Components (Pre-Amp)

AMP PARTS LIST

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			NOTES
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
X12	RS5857	AF Amp.	DS-46	GE-10	SK-3020	NPN (Alt. RS5851)
X13	RS5852	AF Amp.	DS-26	GE-2	SK-3004	PNP
X14	RS5854	AF Amp.	DS-26	GE-2	SK-3004	PNP
X15	RS5853	AF Amp.	DS-46	GE-10	SK-3020	NPN
X16	RS5855	Output	DS-520	GE-3	SK-3009	PNP
X17	RS5855	Output	DS-520	GE-3	SK-3009	PNP
X18	RS5857	AF Amp.	DS-46	GE-10	SK-3020	NPN (Alt. RS5851)
X19	RS5852	AF Amp.	DS-26	GE-2	SK-3004	PNP
X20	RS5854	AF Amp.	DS-26	GE-2	SK-3004	PNP
X21	RS5853	AF Amp.	DS-46	GE-10	SK-3020	NPN
X22	RS5855	Output	DS-520	GE-3	SK-3009	PNP
X23	RS5855	Output	DS-520	GE-3	SK-3009	PNP

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		RECTIFIERS		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.	RCA PART No.	SARKES TARZIAN PART No.
X24	.015A	RS3727	GE-505 or GE-504A	5A4-D or SD500	A100 or 1N537	SK-3016 or SK-3017	F-2 or 20C
X25	.015A	RS3727	GE-505 or GE-504A	5A4-D or SD500	A100 or 1N537	SK-3016 or SK-3017	F-2 or 20C
X26		EA1007	1N34AS	1N34A			
X27		EA1006	1N34AS	1N34A			
X28		EA1007	1N34AS	1N34A			
X29		EA1006	1N34AS	1N34A			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	G. E. PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.	SPRAGUE PART No.	
C49	1000	35	RS6602 (134B1011-3)		BR1000-50		TC50100	TVAS-1316 *	
C50	100	25	RS6798 ① (112B3877-723)	CRE623A	NLW100-25	MT1-20	TT25X100	TE-1211	
C51	150	15	RS6339 (112B3877-526)	CRE478A	NLW150-15	MT1-23	TT15X150	TE-1163	
C52	250	25	RS6340 (112B3877-731)	PRS1280	BR250-25	QT1-28	TC50025	TVA-1208	
C53	2	15NP	RS6582	PRS7300		NPQT-1	TCN502	TVAN-1202	
C54	150	15	RS6339 (112B3877-526)	CRE478A	NLW150-15	MT1-23	TT15X150	TE-1163	
C55	250	25	RS6340 (112B3877-731)	PRS1280	BR250-25	QT1-28	TC50025	TVA-1208	
C56	2	15NP	RS6582	PRS7300	NLW2-50 ②	NPQT-1	TCN502	TVAN-1202	