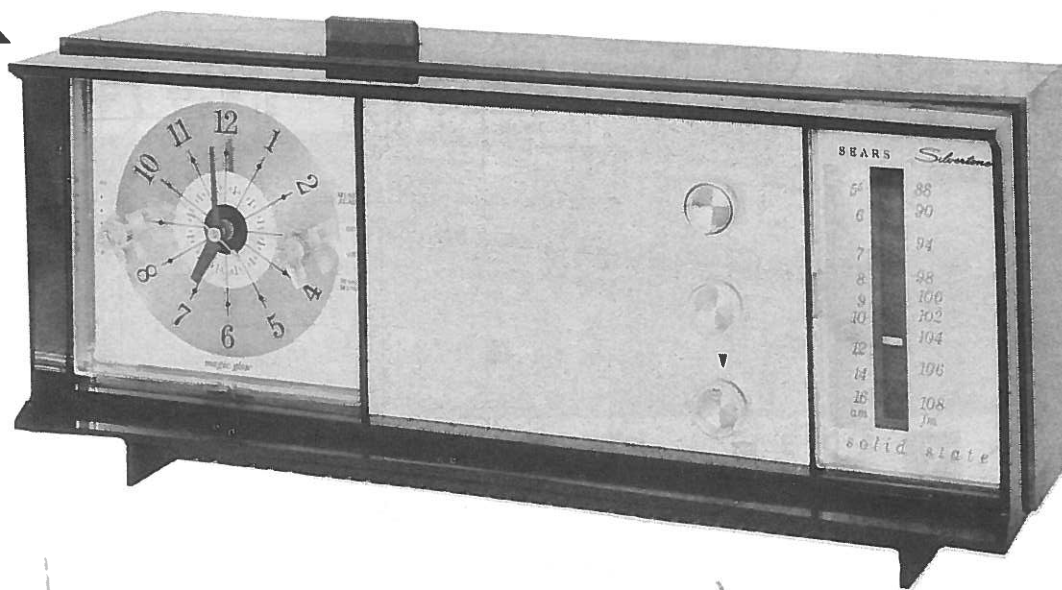


PHOTOFACT® Folder

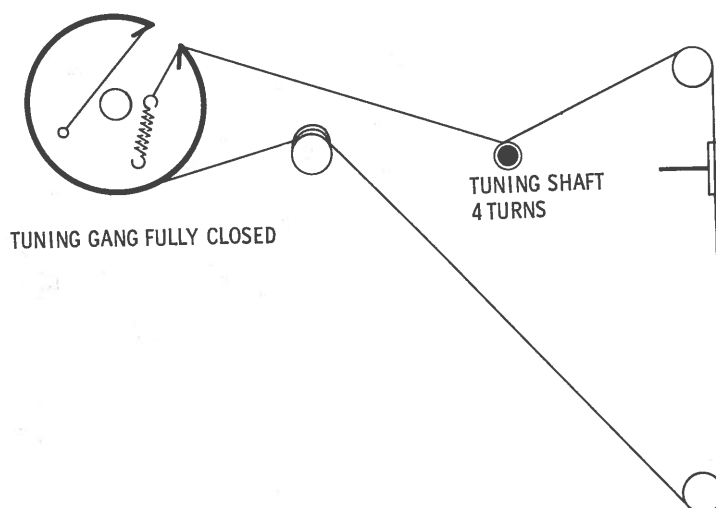
with CIRCUITRACE™

SEARS SILVERTONE MODELS 6047,
6049, 7047 (Ch. 528.63170, 528.63171)



TRADE NAME:	Sears Silvertone Models: 6047 Chassis: 528.63170/71	
	6049	528.63170/71
	7047	528.63171
SUPPLIER:	For Current Address, See Annual Index.	
TYPE SET:	9 Transistor AM-FM Receiver W/Clock Timer	
POWER SUPPLY:	110-120 Volts AC, 60 Cycles	RATING: 2 Watts, .085 Amp. @ 117 Volts AC (Less Clock)
TUNING RANGE:	BROADCAST 455-1630KC	FREQ. MOD: 10.7 - 108.5MC

DIAL CORD STRINGING



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

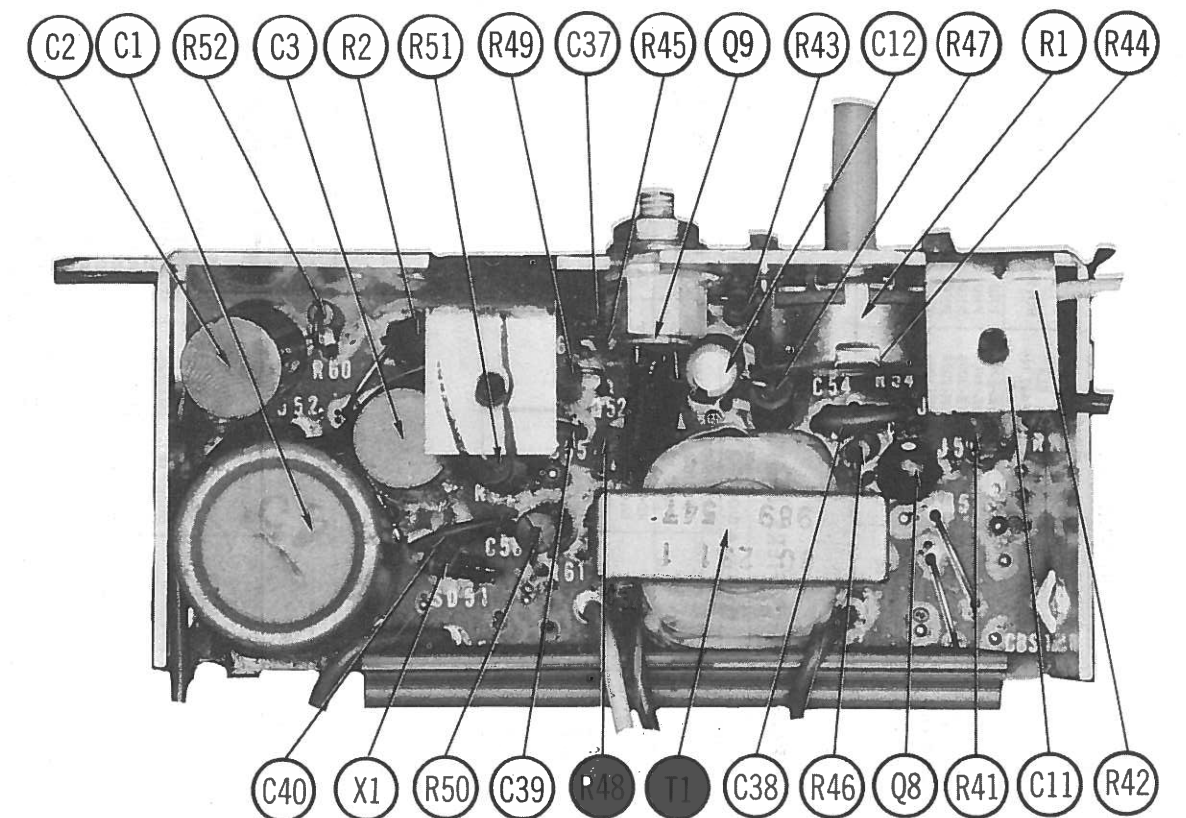
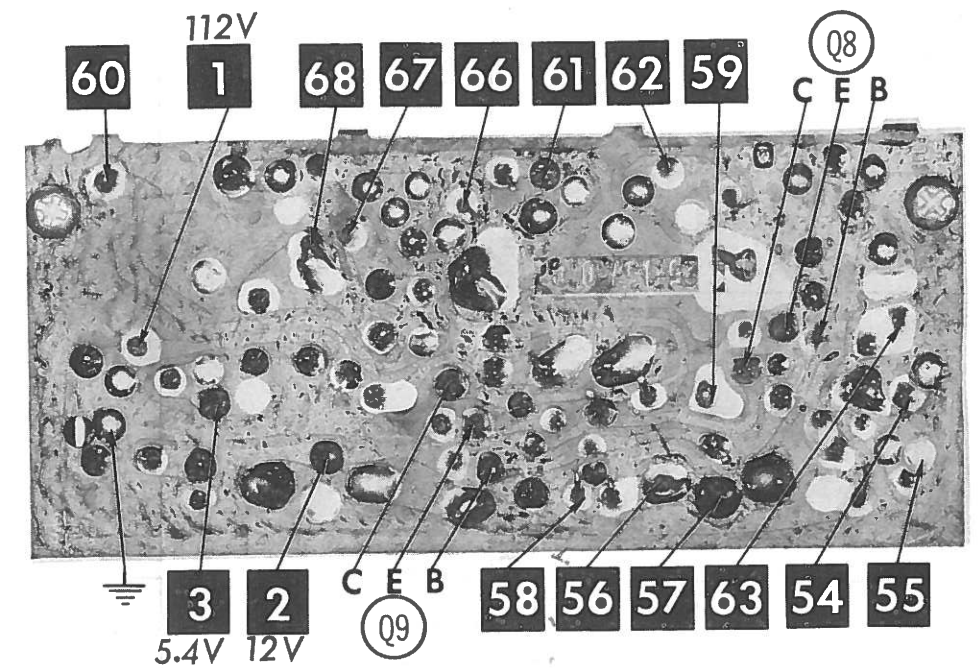
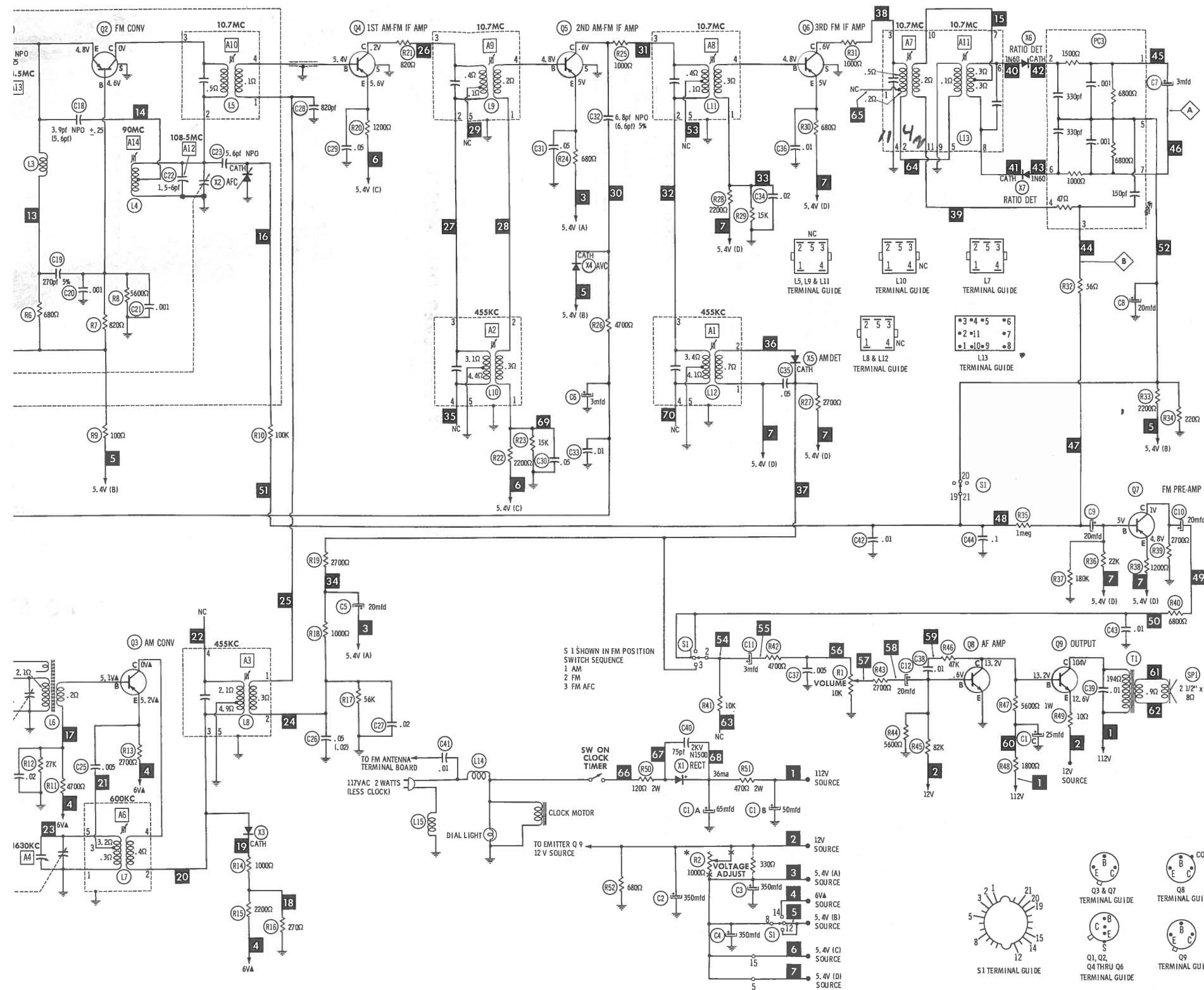
The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. NK857

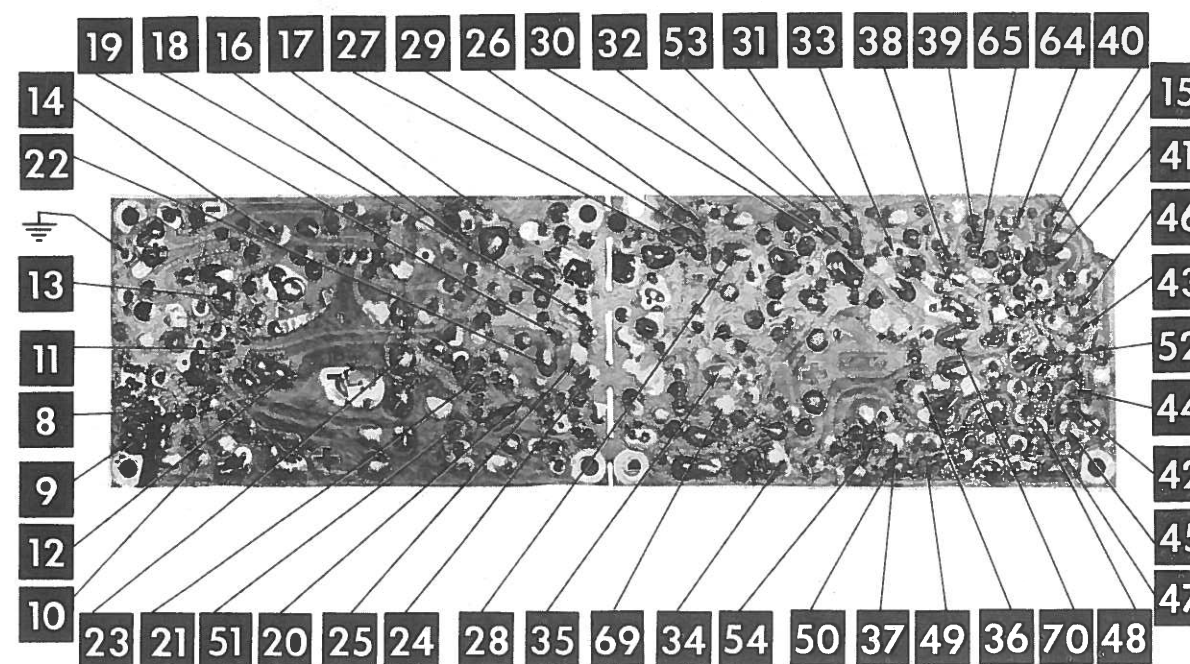
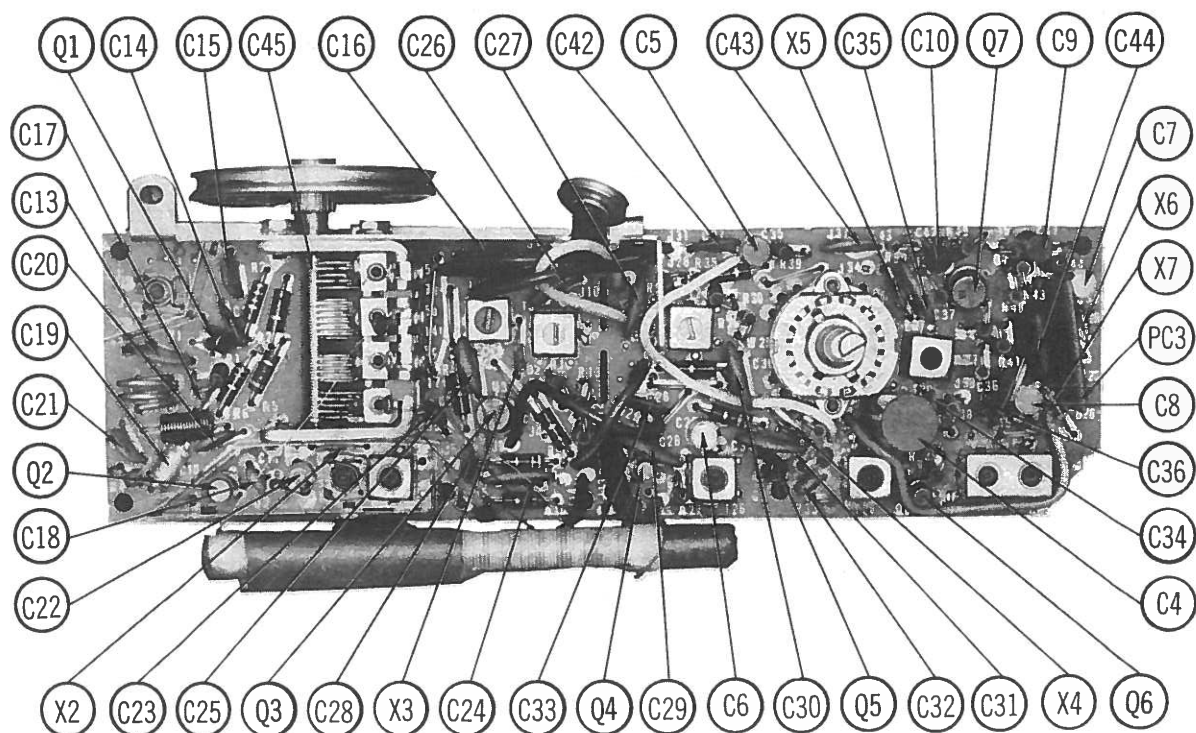
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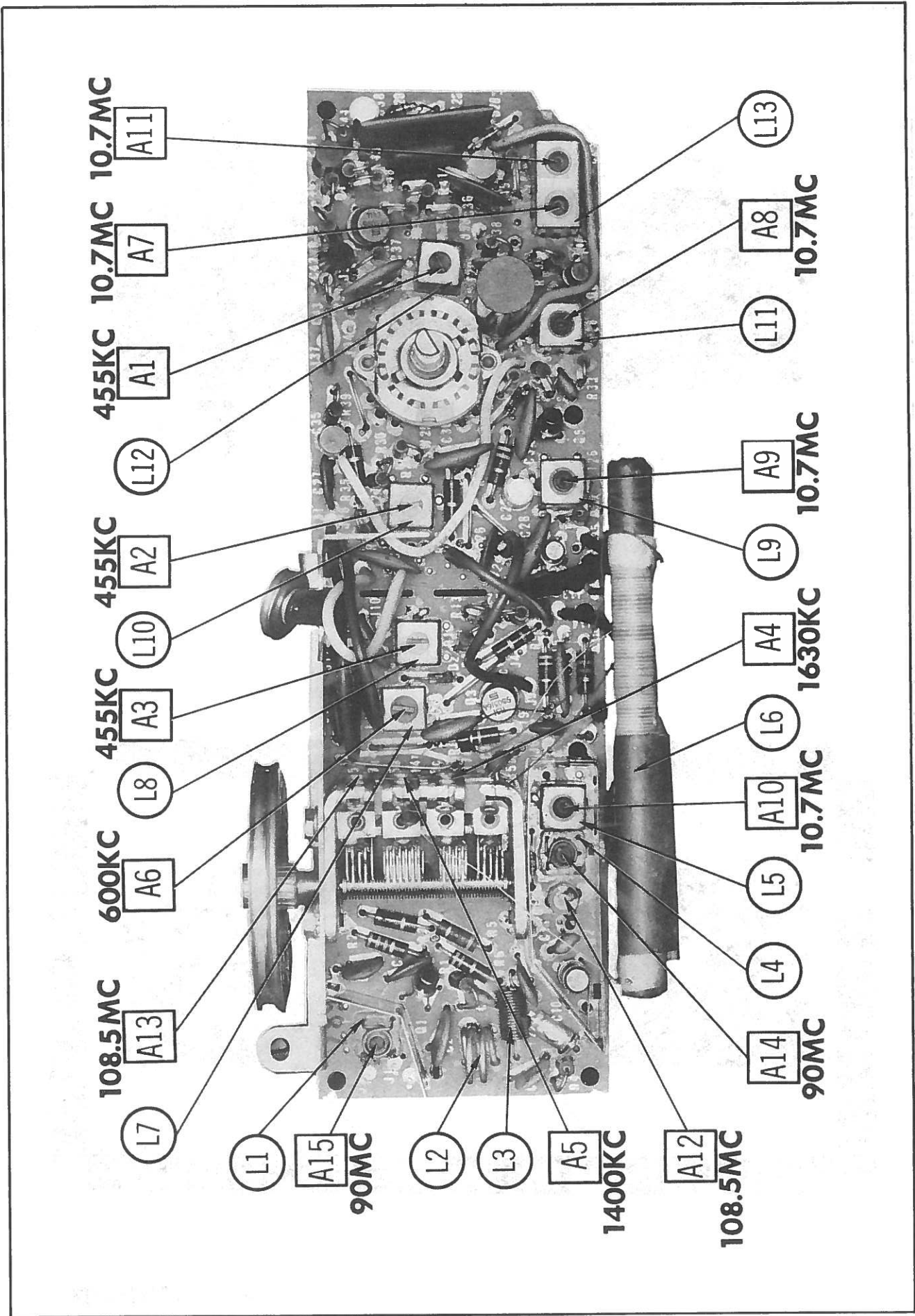
DATE 11 -66

SET 850 FOLDER 7









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 A6, A12, A13. GENERAL CEMENT: 8868, 8987, 9089 WALSCO: 2531-X, 2541, 2587
A7 thru A11, A14, A15. GENERAL CEMENT: 8606L WALSCO: 2544

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.	Adjust for maximum. Repeat until no further improvement can be made.
2. 1630KC	"	"	A4.	Adjust for maximum.
3. 1400KC	Tune to signal.	"	A5.	"
4. 600KC	"	"	A6.	Rock tuning gang and adjust for maximum. Repeat steps 2 thru 4 until no further improvement can be made.

FM ALIGNMENT USING AM SIGNAL GENERATOR — SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120Ω carbon resistors in series with each lead.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. 10.7MC (Unmod.)	Point of non-interference.	DC probe of VTVM to point Δ ; common to ground.	A7, A8, A9, A10.	Adjust for maximum.
6. "	"	DC probe to point Δ ; common to ground.	A11.	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

Connect generator across antenna terminals with 120Ω carbon resistors in series with each lead. 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 Δ ; low side to ground.	A7, A8, A9, A10.	Disconnect stabilizing capacitor C7. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C7.
6. "	"	Vert. amp. to point Δ ; low side to ground.	A11.	Adjust A11 (Secondary) to place marker at center of crossover lines similar to Fig. 2. Adjust A7 (Primary) for maximum amplitude and straightness of crossover lines.

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. 108.5MC	Set at high end.	DC probe of VTVM to point Δ ; common to ground.	A12, A13.	Adjust for maximum.
8. 90MC	Tune to signal.	"	A14, A15.	Rock tuning and adjust for maximum. Repeat steps 7 and 8 until no further improvement can be made.

FIG. 1

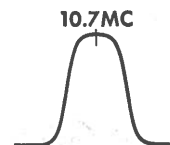
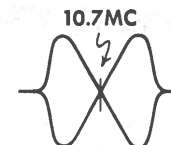


FIG. 2



PARTS LIST AND DESCRIPTION

(When ordering parts, state Model, Part Number, and Description.)

TRANSISTORS

ITEM No.	ORIG. TYPE	USE	REPLACEMENT DATA			SEARS PART No.
			DELCO PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	
Q1		FM RF Amp.	DS-41	SK-3008	SK-3008	88-183-2
Q2		FM Converter	DS-41	SK-3008	SK-3008	88-183-2
Q3		AM Converter	DS-25	GE-1	SK-3008	88-183-2
Q4		1st AM-FM IF	DS-56	GE-9	SK-3008	88-183-2
Q5		2nd AM-FM IF	DS-56	GE-9	SK-3008	88-183-2
Q6		3rd FM IF	DS-56	GE-9	SK-3008	88-183-2
Q7		FM Pre Amp.	DS-26	SK-3005	SK-3005	88-183-2
Q8		AF Amp.	DS-66	SK-3020	SK-3020	88-183-2
Q9		Output		SK-3021	SK-3021	88-183-2

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			
		SEARS PART No.	MEISSNER Part No.	MERIT PART No.	WORKMAN PART No.
L1	FM Antenna	10-294-1			
L2	FM RF	10-307-1			
L3	10.7MC IF Trap	10-28-0			
L4	FM Oscillator	10-98-4			
L5	1st FM IF	10-218-2	16-9080	2070	
L6	Loopstick	82-278-0	14-9008		TB-531
L7	AM Oscillator	10-99-4			
L8	1st AM IF	10-226-2		8504	
L9	2nd FM IF	10-219-2		2071	
L10	2nd AM IF	10-221-2			
L11	3rd AM IF	10-224-2		2072	
L12	Ratio Detector	10-68-0			
L13	Line Choke (16 Turns)	10-128-1			
L14		10-129-1			
L15					

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MEASURED CURRENT	ORIGINAL Part or Type No.	RECTIFIERS & DIODES		
			GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	MALLORY PART No.
X1	.036A	86-58-3 (8D51)	GE-505 or GE-504A	8D4 or 5A4-D	SK-3016 or SK-3017
X2		86-28-1	1N60	1N60	
X3		86-22-1	1N60	1N60	
X4		86-22-1	1N60	1N60	
X5		86-22-1	1N60	1N60	
X6		86-10-1 (1N60)	1N60	1N60	
X7		86-10-1 (1N60)	1N60	1N60	

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE	REPLACEMENT DATA				NOTES
		SEARS PART No.	MERIT PART No.	STANCOR PART No.	THORADSON PART No.	
T1	700Ω	6-8Q	(80-231-1)			

ELECTROLYTIC CAPACITORS

ITEM No.	RATING CAP.	VO.LT.	REPLACEMENT DATA			
			SEARS PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.
C1A	65	150	①	PRS3225	BBRT84215	Q73-6
C1B	50	150				
C1C	25	100				
C2	350	15	18-177-5	BCD15300	BR500-15	Q71-30
C3	350	15	18-177-5	BCD15300	BR500-15	Q71-30
C4	350	15	18-177-5	BCD15300	BR500-15	Q71-30
C5	20	50	18-135-5	BCD12020	NLW20-15	MT1-10
C6	3	50	18-247-5	CRE752A	NLW3-50	TT12X20
C7	3	50	18-247-5	CRE752A	NLW3-50	TT12X20
C8	20	10	18-135-5	BCD12020	NLW20-15	MT1-10
C9	20	10	18-135-5	BCD12020	NLW20-15	MT1-10
C10	20	10	18-135-5	BCD12020	NLW20-15	MT1-10
C11	3	50	18-247-5	CRE752A	NLW3-50	TT12X20
C12	20	10	18-135-5	BCD12020	NLW20-15	MT1-10

① Some versions may use Part #18-252-5, 75mfd @ 150V, 50mfd @ 150V, 25mfd @ 100V in this application.

COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	SEARS PART No.	REPLACEMENT DATA		NOTES
				SEARS PART No.	QUAM PART No.	
PC1	Isolation	.3-1meg, 470mfd	13-49-3	33-610-4 (B)	35A05	
PC2	Isolation	.3-1meg, 470mfd	13-49-3			
PC3	FM Detector	470, 1000Ω, 1500Ω, 6800Ω, 330pF, 330pF, 150pF, .001mfd, .01mfd	13-82-3			

MISCELLANEOUS

ITEM No.	PART NAME	SEARS PART No.	REPLACEMENT DATA		NOTES
			SEARS PART No.	QUAM PART No.	
S1	Switch Timer Printed Circuit Board Printed Circuit Board Printed Circuit Board Printed Circuit Board	68-523-0 58-235 58-235 28-127186-2 84-17610-2 28-126197-0 35-11701-5	Selector Used with Models: 6047, 7047. Used with Model: 6049. Tuner-Less Components. Tuner-With Components. Amp. -Less Components. Amp. -With Components.		

CABINETS & CABINET PARTS

(When Ordering Specify Model, Chassis & Color)

ITEM No.	ITEM	PART No.	ITEM	PART No.
Cabinet Front		42-324-1	Button, Snooze	52-2558-0
Cabinet Rear Models: 6047, 7047		42-322-1	Knob-Volume, Tuning	52-2532-0
Cabinet Rear Model: 6049		84-17924	Knob-Function	52-2533-0

CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA		
			SEARS PART No.	CENTRALAB PART No.	MALLORY PART No.
R1	Volume	10K	24-896 (24-896-C)	F2-10K-SN100	B13-116-TM44①, RUI4A, SL37, or (HUI1, CF61, SN1000Q) or (UA14A, SN1000Q)*
R2	Voltage Adjust	1000Ω	24-911A②	X201R102B	MTC13L1

* "SNAPTROL" ① File flat. ② May not be used in some versions.

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in 12 Colors
Cabinet Rear Models: 6047, 7047
Power Cord Use BELDEN No. 17108 (Plastic) or 17128 (Rubber) - 6 Ft.
Power Cord (Interlock Type) Use BELDEN No. 8874 (Rubber) or 8895 (Plastic)