

## PARTS LIST AND DESCRIPTION (CONTINUED)

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

## CONTROLS

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA				
			ARVIN PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.	MALLORY PART No.
R1	Volume	500K	60100-4③	F2-500K①, SN200	A47-500K-7 ①, RN-3② or (NP-500K-Z ①, UP-B-400)	B13-133, TM4①② or (BU11 ①, CF25 SS6 ②)*	RU55A, SL37 ①, SN2000 ② or (UA55A ①, SN2000 ②) or (TA55A ①)

\* "SNAPTROL" ① Use original mounting bracket.  
② File flat. ③ Part #69100-2 (Volume/Switch, 500K) used in model 36R07.

## RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	ARVIN PART No.			IRC PART No.	WORKMAN PART No.	ARVIN PART No.
R22	33Ω (Fusible)			47727-5					

## COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA				
		ARVIN PART No.	MEISSNER Part No.	MERIT PART No.	MILLER PART No.	WORKMAN PART No.
L1	FM Antenna					
L2	FM RF					
L3	FM Oscillator					
L4	1st. FM IF (Pri)					
L5	1st. FM IF (Sec)					
L6	Loop Antenna	69034-2 ①				
L7	AM Oscillator	43644-7			7753	
L8	1st. AM IF	97712-3	16-6786	BC-356	16-PC9	T646
L9	2nd. FM IF	97100-2	16-3490	FM-259	1463-PC	T654
L10	2nd. AM IF	97712-5	16-6787	BC-357	16-PC10	T647
L11	Ratio Detector	45240-004 (45240-4)		FM-258	7709	TE685
L12	Line Choke (23 turns)	49515-1	19-1002	BC-563	4606	T968
L13	Line Choke (23 turns)	49515-1	19-1002	BC-563	4606	T968

① Includes cabinet back.

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PR.	SEC.	ARVIN PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	3300Ω	4Ω	48700-11	A-3025	A-3332	22S22 ①	S-16X ①	① Cut and tape tap.

## SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		ARVIN PART No.	QUAM PART No.	
SP1	3 1/2" PM 4Ω	46523-7	4A05	

## COMPONENT COMBINATIONS

ITEM No.	USE	DESCRIPTION	ARVIN PART NO.	REPLACEMENT DATA
PC1	Ratio Detector Network	6800Ω, 6800Ω, 68K, 300pf, 300pf, 300pf.	43743-15	

## MISCELLANEOUS

ITEM No.	PART NAME	ARVIN PART No.	NOTES
M1	FM Tuner	67391-101	
M2	Clock Timer	68089-62	(Westclox TS15) Model 46R07.
S1	Switch	95074-9	AFC
S2	Switch	98802-5	AM-FM
	Printed Circuit Board	69016-1	Main Circuit Board-Complete-Model 36R07.
	Printed Circuit Board	69003-1	Main Circuit Board-Complete-Model 46R07.
	Printed Circuit Board	69027-1	Main Circuit Board-Board only.
	Printed Circuit Board	69028-1	Switch Circuit Board-Board only.

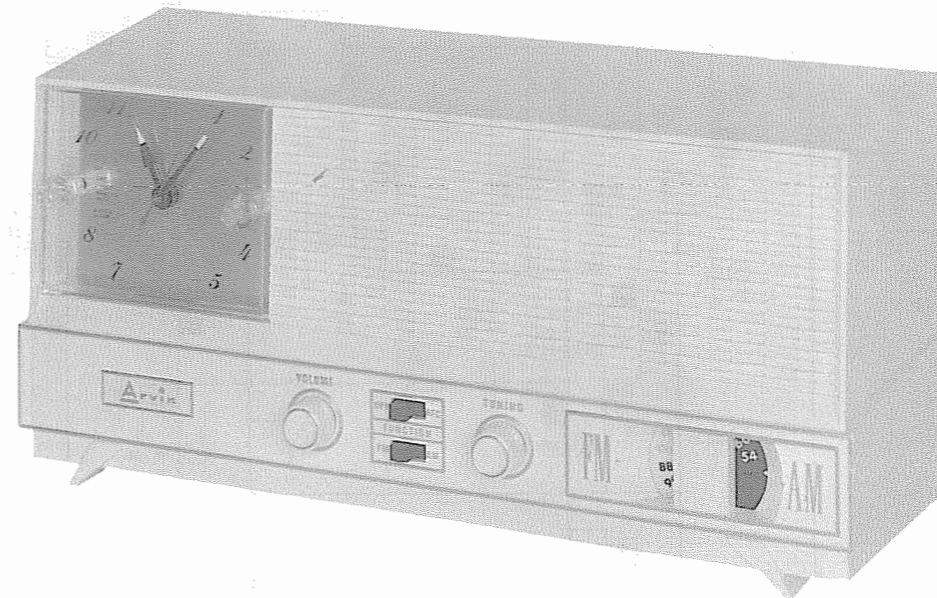
## CABINETS &amp; CABINET PARTS

(When Ordering Specify Model, Chassis &amp; Color)

ITEM	MODELS	PART No.	ITEM	MODELS	PART No.
Cabinet Assembly	46R07	200232-1	Knobs, Clock	46R07	49985-1
Cabinet Assembly	36R07	2000232	Crystal, Clock	46R07	68994
Knobs, Controls		69072-87			

PHOTOFACT® Folder

with CIRCUITRACE

ARVIN  
CHASSIS 1.88601/701

TRADE NAME: Arvin Models 36R07 (Ch. 1.88601), 46R07 (Ch. 1.88701)

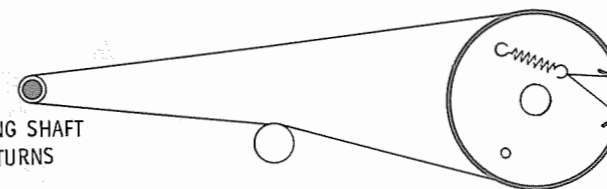
SUPPLIER: For Current Address, See Annual Index.

TYPE SET: 6 Tube AM-FM Receiver W/Clock

POWER SUPPLY: 110-120 Volts AC, 60 Cycles RATING: 31 Watts, .34 Amp. @ 117 Volts AC (Less Clock)

TUNING RANGE: BROADCAST 535-1640KC FREQ. MOD: 88-108MC

## DIAL CORD STRINGING

TUNING SHAFT  
3 1/2 TURNS

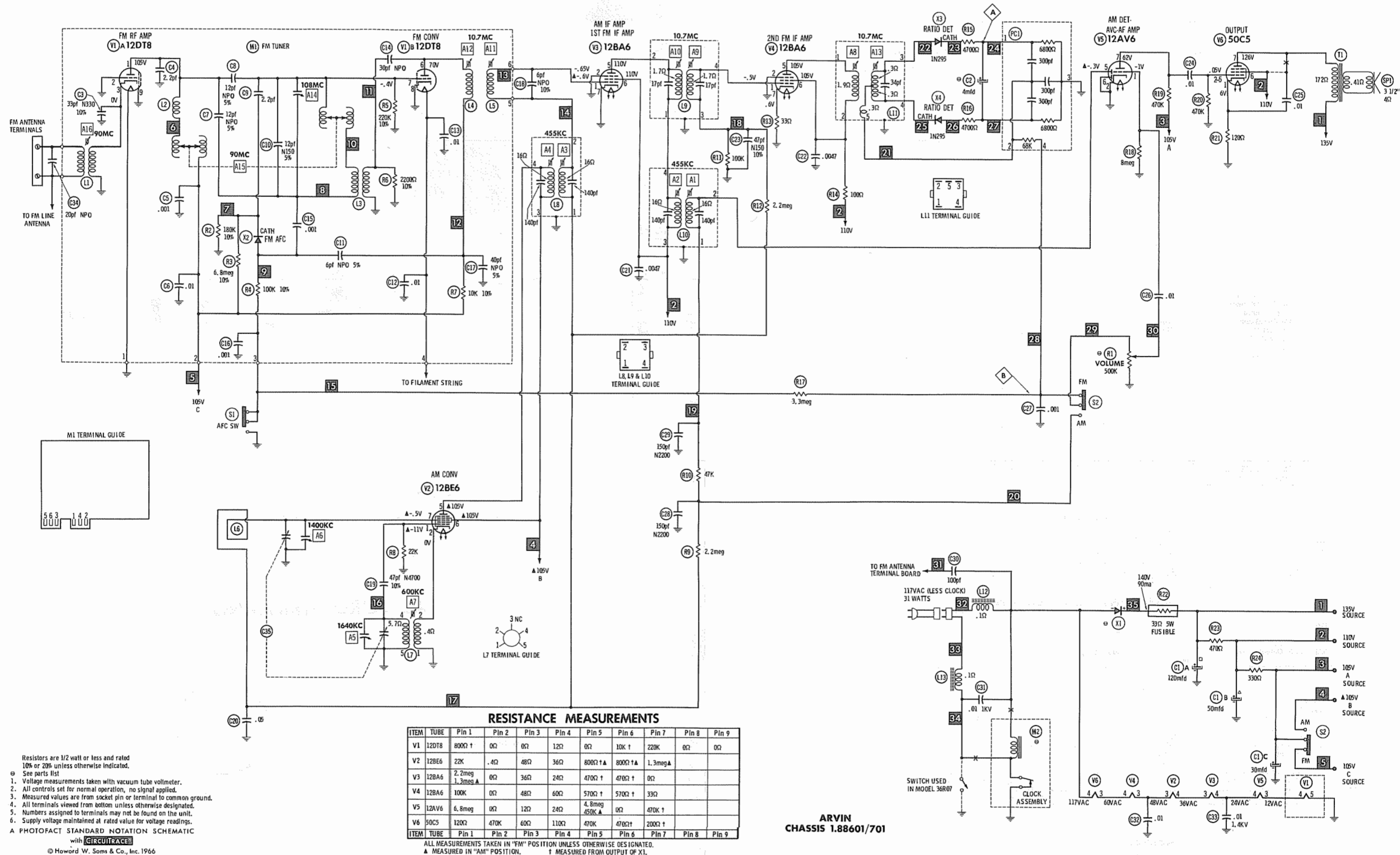
TUNING GANG FULLY CLOSED

HOWARD W. SAMS &amp; 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. NK706

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DATE 7 -66 SET 825 FOLDER 5



# PARTS LIST AND DESCRIPTION

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

## 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.
Power Cord (Interlock Type) .....	Use Belden No. 8874 (Rubber) or 8895 (Plastic)

## TUBES

ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	FM RF Amp. -FM Conv.	12DT8	V4	2nd. FM IF Amp.	12BA6
V2	AM Conv.	12BE6	V5	AM Det-AVC-AF Amp.	12AV6
V3	AMIF-1st. FM IF Amp.	12BA6	V6	Output	50C5

## 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	.090A	47126-3	GE-504A or GE-505	5A4-D or SD500	1N2070 or 1N540	SK-3018 or SK-3017	F-4 or 40C
X2		(Note 1)					
X3		48287 (1N295)	1N60	1N295			
X4		48287 (1N295)	1N60	1N295			

Note 1. Variable capacitor diode

## ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA				
	CAP.	VOLT.	ARVIN PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	MALLORY PART No.
C1A	120	150	97711-20	PWH3-13-70	CC0105①	XC3-45.1①	FP311.84①
B	50	150			BR00-150		
C	30	150					
C2	4	50	45238-2 ②	CRE753A	NLW4-50	MT1-3	TT50X4

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

① Use Printed circuit board adapters.

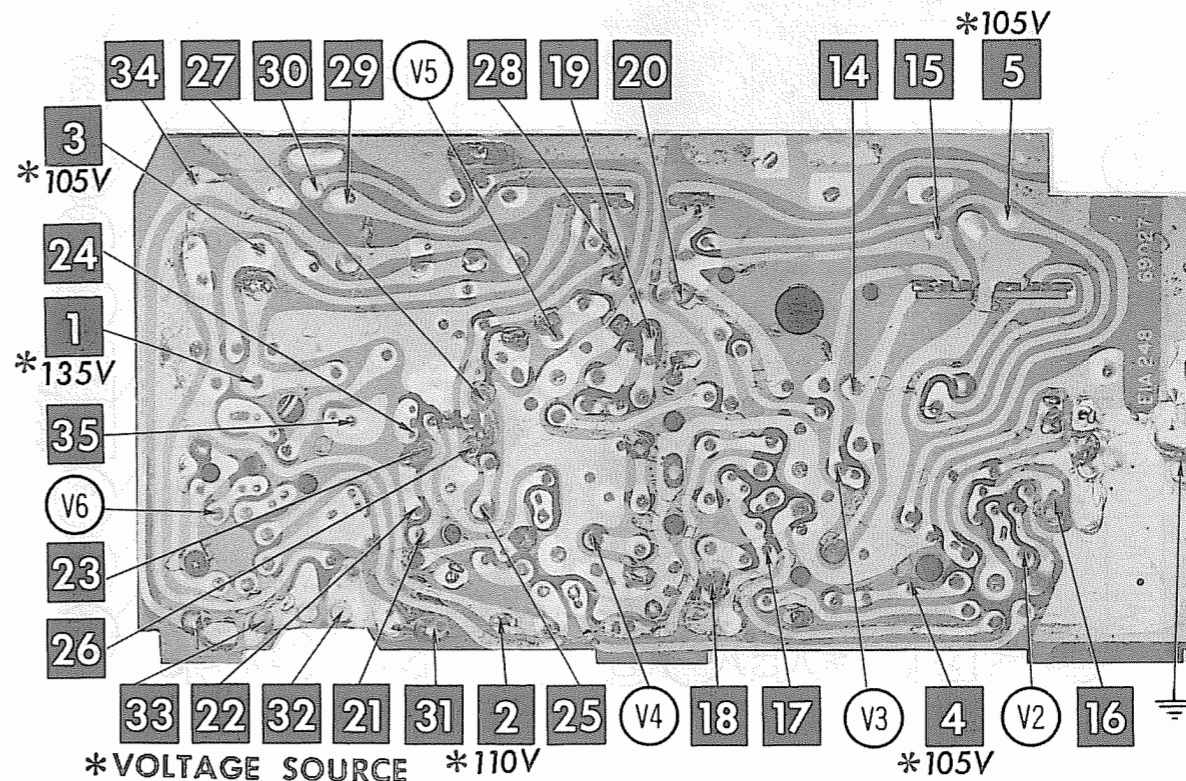
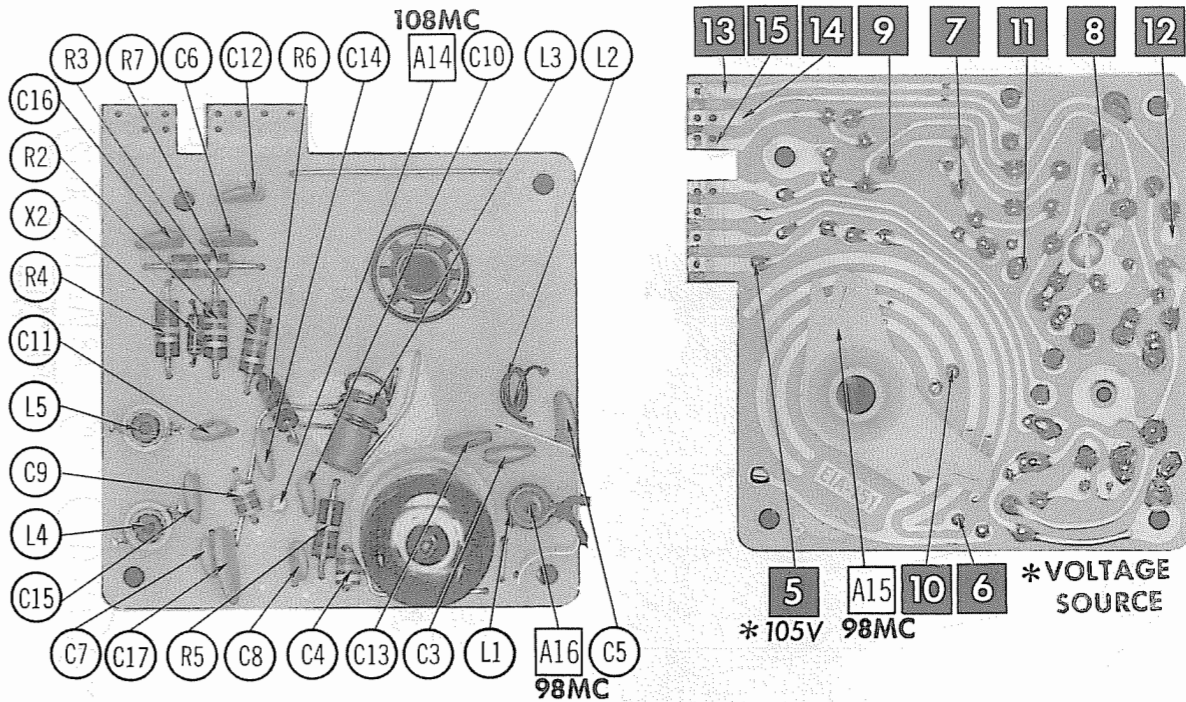
② Some versions use Part #45238-10 in this application.

## CAPACITORS

ITEM No.	RATING		REMARKS	REPLACEMENT DATA						
				AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENCOPART No.	MALLORY PART No.	SPRAGUE PART No.	
C3	33	N330	10%							
C4	2.2									
C5	.001									
C6	.01									
C7	12	NPO	5%							
C8	12	NPO	5%							
C9	2.2									
C10	12	N150	5%							
C11	6	NPO	5%							
C12	.01									
C13	.01									
C14	30	NPO	10%							
C15	.001									
C16	.001									
C17	40	NPO	5%							
C18	6	NPO	10%							
C19	47	N4700	10%							
C20	.05	100V								
C21	.0047									
C22	.0047									
C23	47	N150	10%							
C24	.01									
C25	.01									
C26	.01									
C27	.001									
C28	150	N2200								
C29	150	N2200								
C30	100									
C31	.01	1KV								
C32	.01									
C33	.01	1.4KV								
C34	20	NPO								
C35										

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

# Arvin Part Number.

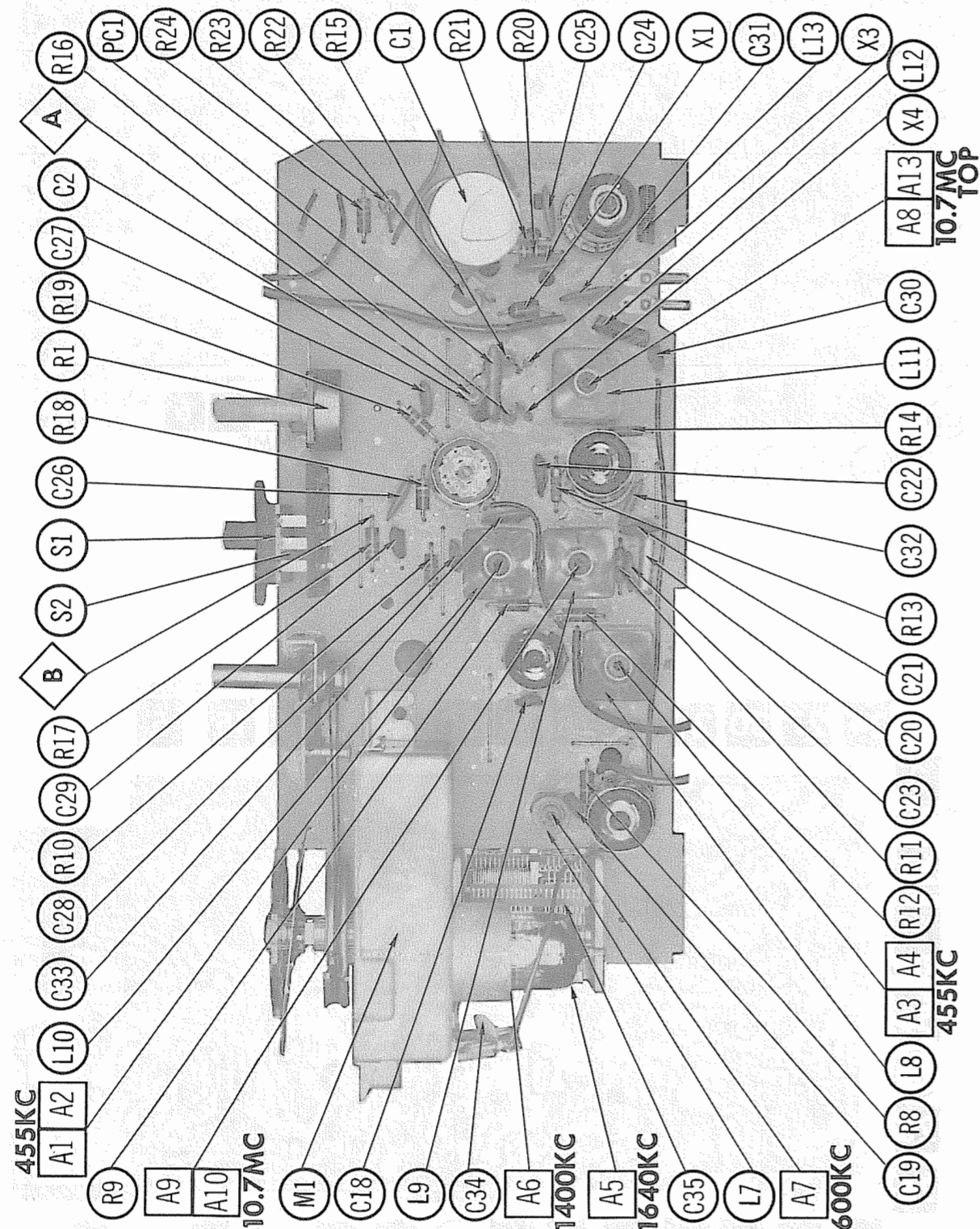


ARROWS INDICATING TUBE LOCATIONS ARE POINTING TO PIN 1 UNLESS OTHERWISE INDICATED

A Howard W. Sams CIRCUITRAGE® Photo

ARVIN  
CHASSIS 1.88601/701

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, A7 thru A10, A13. GENERAL CEMENT: 8606, 8669, 9302 WALSCO: 2511, 2543, 2588  
A5, A8, A14, A15. GENERAL CEMENT: 8668, 8987, 9089 WALSCO: 2531-X, 2541, 2587  
A11, A12, A16. GENERAL CEMENT: 9296, 9300, 9302 WALSCO: 2510, 2511, 2547

### 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 (400% 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. 1640KC	"	"	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.

### FM ALIGNMENT USING AM SIGNAL GENERATOR — SELECTOR IN FM POSITION — AFC SWITCH OFF

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.	Adjust for maximum.
6. "	"	DC probe to point B; common to ground.	A13.	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 — AFC SWITCH OFF

High side to ungrounded shield over FM converter, low side to ground. Use only enough marker signal to obtain indication. Use 60% frequency modulated signal with 450KC sweep. Use 120% 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.	Disconnect stabilizing capacitor C2. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C2.
6. "	"	Vert. amp. to point B; low side to ground.	A13.	Adjust A13 (Secondary) to place marker at center of crossover lines similar to Fig. 2. Adjust A8 (Primary) for maximum amplitude and straightness of crossover lines.

### FM RF ALIGNMENT — SELECTOR SWITCH IN FM POSITION — AFC SWITCH OFF

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

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
7. 108MC	Set at high end.	DC probe of VTVM to point A; common to ground.	A14.	Adjust for maximum.
8. 90MC	Tune to signal.	"	A15, A16.	Rock tuning and adjust for maximum. Repeat steps 7 and 8 until no further improvement can be made. Adjust A16 (Plastic Cam) thru hole in side of FM Tuner.

