

X1	47126-3	GE-504A	8D4 or 5A4-D	ECG 116 or ECG 117	SK3017A	① Variable Capacitor Diode.
X2	2002207-2 ①	1N295	1N295	ECG 109		
X3	48287 1N295	1N295	1N295	ECG 110 ②		
X4	48287 1N295					
X5	48287-4 1N642 ②		1N642 ②			② Matched Pair.
X6						

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA				
		PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNEILL-DUBUIER PART No.	GENERAL ELECTRIC PART No.
C1	150 150V	67012-34	PRSI520		BR150-150	QTL-25
C2	100 150V	67012-31				QTL-28
C3	200 20V	48385-10	BCD5000	E A3C-250	BR250-250	MTI-1
C4	2 10V	48385-9	BCD50002	E P15-2	NLW2-50	MTI-1
C5	2 10V	48385-9	BCD50002	E P15-2	NLW2-50	MTI-1
C6	10 10V	48385-6	BCD25010	E P15-10	NLW10-15	MTI-5

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA				
			AEROVOX PART No.	CENTRALAB PART No.	CORNEILL-DUBUIER PART No.	EIMENCO PART No.	MALLORY PART No.
C21	18 NPO, 50V, 10%	#2022855-9	NPO-DI 10	TCZ-18	CY601CG180J	CCTO-180	CN0418
C22	10 NPO, 10%		NTPP-01	DTZ-10	HOY10IZV103P	CCTO-100	CN0410
C23	25V		TTPP-01	CK-103	HOY10IZV103P	CCD-103	TA110
C24	.01 25V		TTPP-05	CK-103	HOY10IZV503Z	CCD-503	TA110
C25	.01 25V		TTPP-01	CK-103	HOY10IZV103P	CCD-103	TA110
C26	.01 25V	#97246-7	NPO-DI 1.5	DTZ-1R5	CY601CG220K	CCTO-220	CN0515
C27	6 NPO, 50V, 10%		NTPP-01	DTZ-22			CN0422
C28	1.5		NTPP-01	DTZ-22			CN0515
C29	22 NPO, 50V, 10%		NTPP-01	DTZ-22			CN0515
C30	1.5		NTPP-01	DTZ-22			CN0515
C31	300 N750 10%		NTPP-01	DTZ-22			CN0515
C32	300 N750 10%		NTPP-01	DTZ-22			CN0515
C33	.01 25V		NTPP-01	DTZ-22			CN0515
C34	4.7		NTPP-01	DTZ-22			CN0515
C35	4 N2200 ±.5		NTPP-01	DTZ-22			CN0515
C36	.02 25V		NTPP-01	DTZ-22			CN0515
C37	.02 25V		NTPP-01	DTZ-22			CN0515
C38	.01 25V		NTPP-01	DTZ-22			CN0515
C39	300 N750 10%		NTPP-01	DTZ-22			CN0515
C40	.02 25V		NTPP-01	DTZ-22			CN0515
C41	.006 25V		NTPP-01	DTZ-22			CN0515
C42	.05 25V		NTPP-01	DTZ-22			CN0515
C43	.05 25V		NTPP-01	DTZ-22			CN0515
C44	.005 25V		NTPP-01	DTZ-22			CN0515
C45	150 N750, 50V, 10%		NTPP-01	DTZ-22			CN0515
C46	.02 25V		NTPP-01	DTZ-22			CN0515
C47	.02 25V		NTPP-01	DTZ-22			CN0515
C48	6 NPO, 50V, 10%	#97246-7	NTPP-01	DTZ-22			CN0515
C49	.02 25V		NTPP-01	DTZ-22			CN0515
C50	300 N750, 50V, 10%		NTPP-01	DTZ-22			CN0515
C51	.01 25V		NTPP-01	DTZ-22			CN0515
C52	.01 25V		NTPP-01	DTZ-22			CN0515
C53	.01 25V		NTPP-01	DTZ-22			CN0515
C54	.01 25V		NTPP-01	DTZ-22			CN0515
C55	300 N750, 50V, 10%		NTPP-01	DTZ-22			CN0515
C56	300 N750, 50V, 10%		NTPP-01	DTZ-22			CN0515
C57	300 N750, 50V, 10%		NTPP-01	DTZ-22			CN0515
C58	.01		NTPP-01	DTZ-22			CN0515
C59	.02 25V		NTPP-01	DTZ-22			CN0515
C60	.05 25V		NTPP-01	DTZ-22			CN0515
C61	.2 10V		NTPP-01	DTZ-22			CN0515
C62	.01 1KV		NTPP-01	DTZ-22			CN0515
C63	.01		NTPP-01	DTZ-22			CN0515
C64	.02 25V		NTPP-01	DTZ-22			CN0515

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

Arvin Part Number

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA		
		MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.
L1	FM Antenna Matching	96543-12		
L2	FM RF	96543-11		
L3	10, TMC Trap	96543-3		
L4	FM Oscillator	96543-10		
L5	FM Oscillator	96543-10		
L6	FM Oscillator	45783-46		
L7	FM Oscillator	45783-46		
L8	FM Oscillator	45783-46		
L9	FM Interstage IF	45783-46		
L10	FM Interstage IF	45783-46		
L11	FM Interstage IF	45783-46		
L12	FM Interstage IF	45783-46		
L13	FM Interstage IF	45783-46		
L14	FM Interstage IF	45783-46		
L15	FM Interstage IF	45783-46		

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE	REPLACEMENT DATA			NOTES
		MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.	
T1	1800Ω	94600-18			① Cut and tape Taps.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA			NOTES
		MEISSNER PART No.	MILLER PART No.	WORKMAN PART No.	
SP1	3 1/2" PM 8Ω	46523-21			

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
S1	Switch	95644-28	Function AM-FM-FM-AFC
PC1	Antenna Isolation	47796-6	
PC2	Printed Circuit Board	93307-1	RF - Audio (Board only)
	Printed Circuit Board	93307-1	RF - Audio (Complete)
	Printed Circuit Board	93307-1	IF (Board Only)
	Printed Circuit Board	93307-1	IF (Complete)

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	ITEM	PART No.	ITEM	PART No.
Knob, Function & Balance	2000972-19		Pointer, Dial	2004753-1
Knob, Volume & Tuning	2000972-20			

WIRING DATA

General-use Unshielded Hook-up Wire Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cord Use BELDEN No. 8524 (Stranded) Available in 12 Colors
..... Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft.
..... Use BELDEN No. 17109 (Plastic) or 17129 (Rubber) - 9 Ft.



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. UK118

ARVIN CHASSIS
1.46601, 1.46701

SET 1025 FOLDER 5



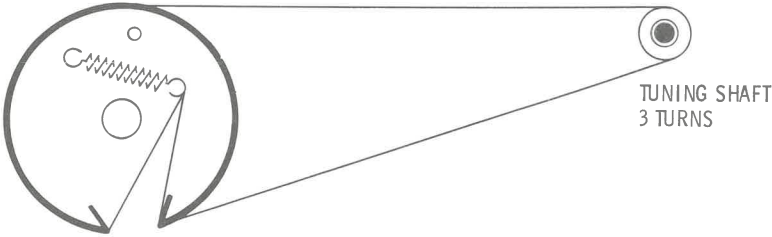
For Supplier Address See PHOTOFACT Index

ARVIN CHASSIS
1.46601, 1.46701



MODELS 30R34-11/12, 40R34-11/12

DIAL CORD STRINGING



TUNING GANG FULLY CLOSED

TUNING SHAFT
3 TURNS

REMEMBER TO ASK— “What else needs fixing?”

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

Reproduction or use, without express permission, of editorial or pictorial content, in any matter, is prohibited. No patent liability is assumed with respect to the use of the information contained herein. © 1969 Howard W. Sams & Co., Inc., Indianapolis, Indiana 46206. Printed in U. S. of America.

PARTS LIST AND DESCRIPTION

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

TRANSISTORS

ITEM No.	TYPE No.	FUNCTION	REPLACEMENT DATA			
			MFGR. PART No.	DELCO PART No.	GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.
Q1		FM RF Amp.	95127 (95131)	DS-81	GE-17	TR-22
Q2		FM Converter	95125 (95131)	DS-81	GE-17	TR-22
Q3		AM Converter	95126 (95131)	DS-72	GE-20	TR-21
Q4		1st AM-FM IF	95129 (95131)	DS-74	GE-20	TR-21
Q5		2nd AM-FM IF	95129 (95131)	DS-74	GE-20	TR-21
Q6		3rd AM-FM IF	95129 (95131)	DS-74	GE-20	TR-21
Q7		AF Amp.	95221 (95222-2)	DS-66	GE-10	TR-21
Q8		Output			GE-12	TR-23

POWER RECTIFIERS & SIGNAL DIODES

ITEM No.	MFGR. PART OR TYPE No.	REPLACEMENT RECTIFIERS & DIODES			NOTES
		GENERAL ELECTRIC PART No.	INTERNATIONAL RECTIFIER PART No.	SYLVANIA PART No.	
X1	47128-3	GE-504A			
X2	2002207-2 ①	8D4 or 5A4-D	ECG 116 or ECG 117	SK3017A	① Variable Capacitor Diode.
X3	48287 1N295	1N295	ECG 109		
X4	48287 1N295	1N295	ECG 109		
X5	48287-4 1N542 ②	1N542 ②	ECG 110 ②		② Matched Pair.
X6					

ELECTROLYTIC CAPACITORS

ITEM No.	RATING	REPLACEMENT DATA			
		AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.
C1	150 150V	PRS1520		BRL50-150	QTT-25
C2	200 20V		EA30-250	BR250-250	QTL-28
C3	2 10V	BCD50002	EP15-2	NLW2-50	MTL-1
C4	2 10V	49385-9	EP15-2	NLW2-50	MTL-1
C5	2 10V	49385-9	EP15-2	NLW2-50	MTL-1
C6	10 10V	49385-6	EP15-10	NLW10-15	MTL-5

CAPACITORS

ITEM No.	RATING	REMARKS	REPLACEMENT DATA			
			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.
C21	18 NPO, 50V, 10%	#2002855-9	NPO-DI 10	TCZ-18	CY601CG1801	CCTO-180
C22	10 NPO 10%		TTP-01	CK-103	HOY101ZV103P	CCTO-100
C23	25V		TTP-01	CK-103	HOY101ZV103P	CCD-103
C24	25V		TTP-05	CK-503	HOY101ZV503Z	CCD-503
C25	25V		TTP-01	CK-103	HOY101ZV103P	CCD-103
C26	6 NPO, 50V, 10%	#97246-7	NPO-DI 1.5	DTZ-1R5	CY601CG1801	CCTO-180
C27	22 NPO, 50V, 10%		NPO-DI 22	DTZ-22	CY601CG1801	CCTO-180
C28	300 N750 10%		N750-DI 330	TCN-300	HOY101ZV103P	CCD-103
C29	300 N750 10%		N750-DI 330	TCN-300	HOY101ZV103P	CCD-103
C30	300 N750 10%		N750-DI 330	TCN-300	HOY101ZV103P	CCD-103
C31	1.5		NPO-DI 4.7	DTZ-4R7	HOY101ZV103P	CCD-103
C32	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C33	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C34	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C35	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C36	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C37	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C38	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C39	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C40	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C41	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C42	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C43	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C44	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C45	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C46	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C47	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C48	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C49	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C50	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C51	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C52	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C53	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C54	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C55	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C56	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C57	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C58	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C59	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C60	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C61	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C62	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C63	4		TTP-02	CK-203	HOY101ZV203P	CCD-203
C64	4		TTP-02	CK-203	HOY101ZV203P	CCD-203

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

Arvin Part Number

CONTROLS (All wattages 1/2 watt, or less, unless listed)

ITEM No.	FUNCTION	RESISTANCE	REPLACEMENT DATA			
			MFGR. PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.
R1	Volume/Switch	30K	98400-60	F2-25K, SNI100, KR-1	NP-25K-Z, NML-A-300, TTT-2, NWE-12	BU11, CFB3, SS6, GC *
R2	Volume Tone	30K 50K	98400-59 ① 69100-48	F2-50K ②, SNI100	A47-50K-Z ②, RN-3 or (NP-50K-Z ②), NML-A-300	RU253A, SL37, SN750, US41 or (UA253A, SN750, US41)

① Used in Model 40R34-11/-12.

② Use original mounting bracket.

* "SNA PTROL"

RESISTORS (Power and Special)

ITEM No.	RATING	IRC PART No.	REPLACEMENT DATA		ITEM No.	RATING	IRC PART No.	REPLACEMENT DATA	
			WORKMAN PART No.	MFGR. PART No.				WORKMAN PART No.	MFGR. PART No.
Rs2	300Ω 5W	Fusible		47727-13					

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA		ITEM No.	USE	REPLACEMENT DATA	
		PART No.	MEISSNER PART No.			PART No.	MILLER PART No.
L1	FM Antenna Matching	96543-12		L1	FM Antenna Matching	96543-12	
L2	FM RF	96543-11		L2	FM RF	96543-11	
L3	10.7MC Trap	96543-3		L3	10.7MC Trap	96543-3	
L4	FM Oscillator	93400-1		L4	FM Oscillator	93400-1	
L5	Loopstick	45783-46		L5	Loopstick	45783-46	
L6	AM Oscillator	49386-10		L6	AM Oscillator	49386-10	
L7	FM Input IF	49388-16		L7	FM Input IF	49388-16	
L8	FM Interstage IF	49388-22		L8	FM Interstage IF	49388-22	
L9	FM Interstage IF	49388-27		L9	FM Interstage IF	49388-27	
L10	FM Interstage IF	49388-21		L10	FM Interstage IF	49388-21	
L11	FM Output IF	96539-2		L11	FM Output IF	96539-2	
L12	Ratio Choke (23 Turns)	49515-2		L12	Ratio Choke (23 Turns)	49515-2	
L13	Line Choke (23 Turns)	49515-2		L13	Line Choke (23 Turns)	49515-2	
L14	Line Choke (23 Turns)	49515-2		L14	Line Choke (23 Turns)	49515-2	
L15	Line Choke (23 Turns)	49515-2		L15	Line Choke (23 Turns)	49515-2	

TRANSFORMER (Audio Output)

ITEM No.	IMPEDANCE		REPLACEMENT DATA				NOTES
	PRI.	SEC.	MFGR. PART No.	MERIT PART No.	STANCOR PART No.	THORADSON PART No.	
T1	1500Ω	8Ω	94600-18			22861 ①	① Cut and tape Taps.

SPEAKER

ITEM No.	TYPE	REPLACEMENT DATA		NOTES
		MFGR. PART No.	QUAM PART No.	
SPI	3 1/2" PM 8Ω	46523-21	4A06Z8	

MISCELLANEOUS

ITEM No.	PART NAME	PART No.	NOTES
S1	Switch	95644-28	Function AM-FM-AFC
PC1	Antenna Isolation	47796-6	
PC2	Antenna Isolation	47796-6	
	Printed Circuit Board	93307-1	RF - Audio (Board only)
	Printed Circuit Board	93339-1	RF - Audio (Complete)
	Printed Circuit Board	93229-1	IF (Board Only)
	Printed Circuit Board	93228-1	IF (Complete)

CABINETS & CABINET PARTS (When ordering specify model, chassis & color)

ITEM	ITEM	PART No.	ITEM	PART No.
Knob, Function & Balance Knob, Volume & Tuning		2000972-19 2000972-20	Pointer, Dial	2004753-1

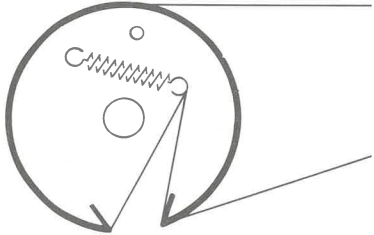
WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in 12 Colors
Power Cable	8524 (Stranded) Available in 12 Colors
	Use BELDEN No. 17106 (Plastic) or 17126 (Rubber) - 6 Ft.
	17109 (Plastic) or 17129 (Rubber) - 9 Ft.



HOWARD W. SAMS & CO.

The listing of any available replacement part herein does not constitute any case a recommendation, warranty or guaranty by Howard W. Sams & Inc., as to the quality and suitability of such replacement part. The num of these parts have been compiled from information furnished to Howard Sams & Co., Inc., by the manufacturers of the particular type of replacer part listed. UK118



TUNING GANG FULLY CLOSED

DIAL COR

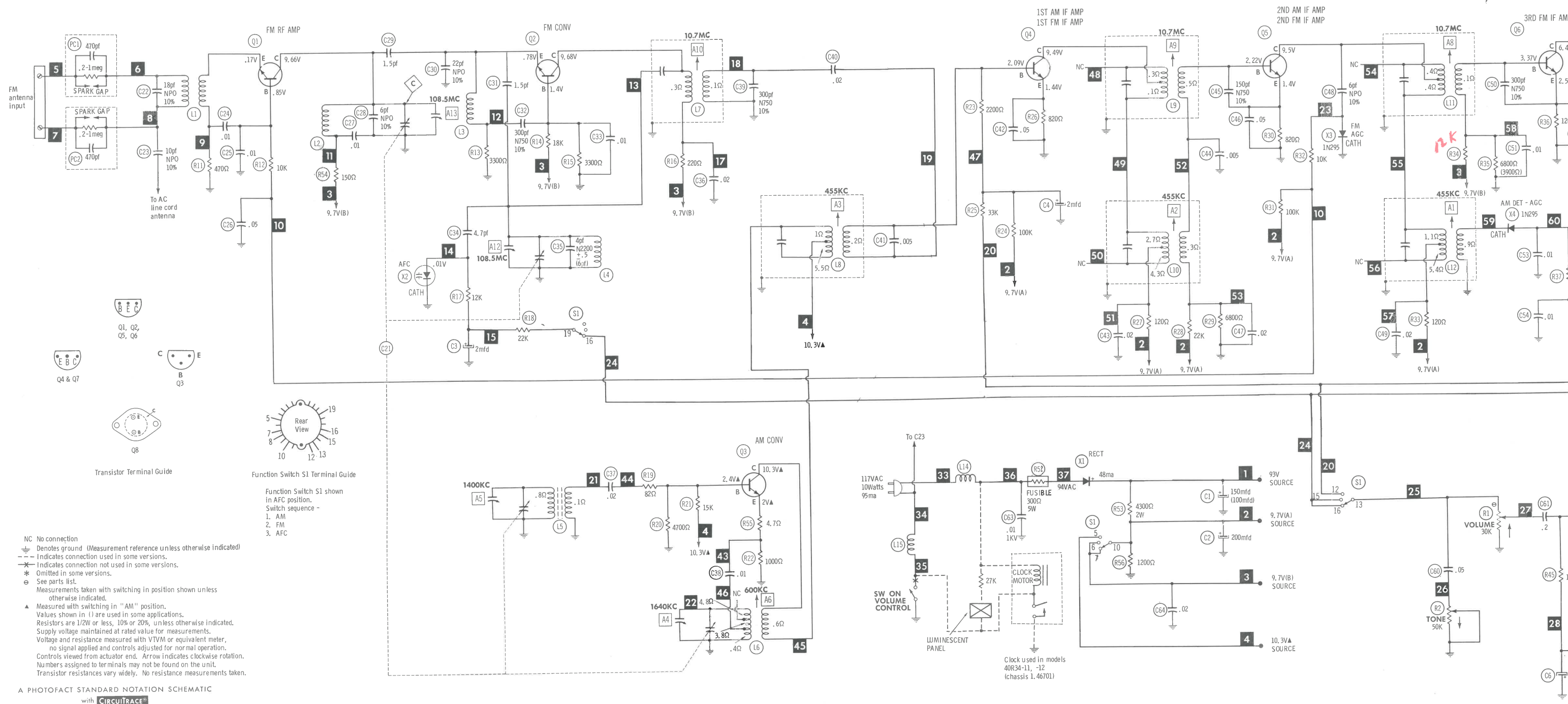
MODELS 30R3



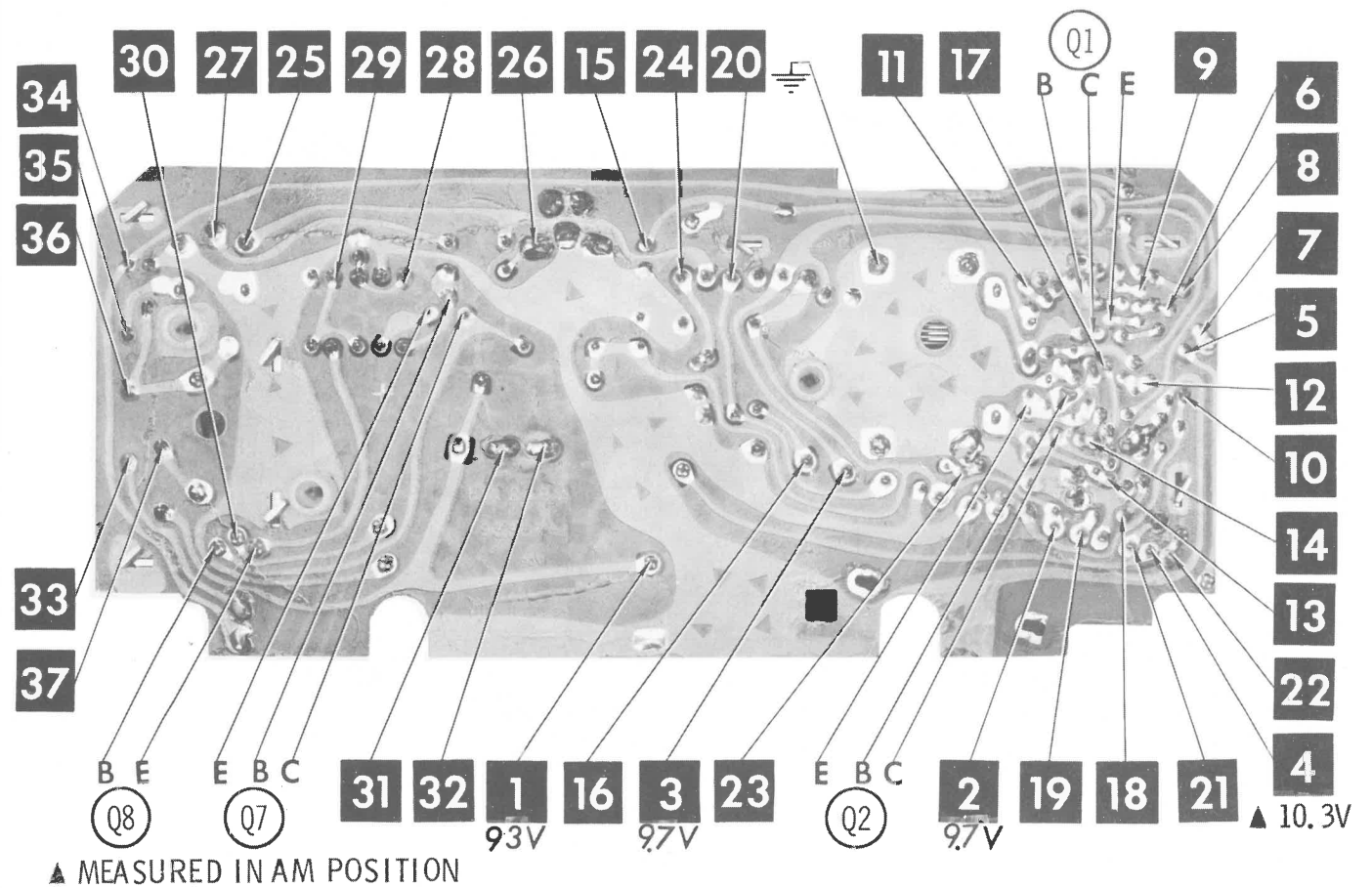
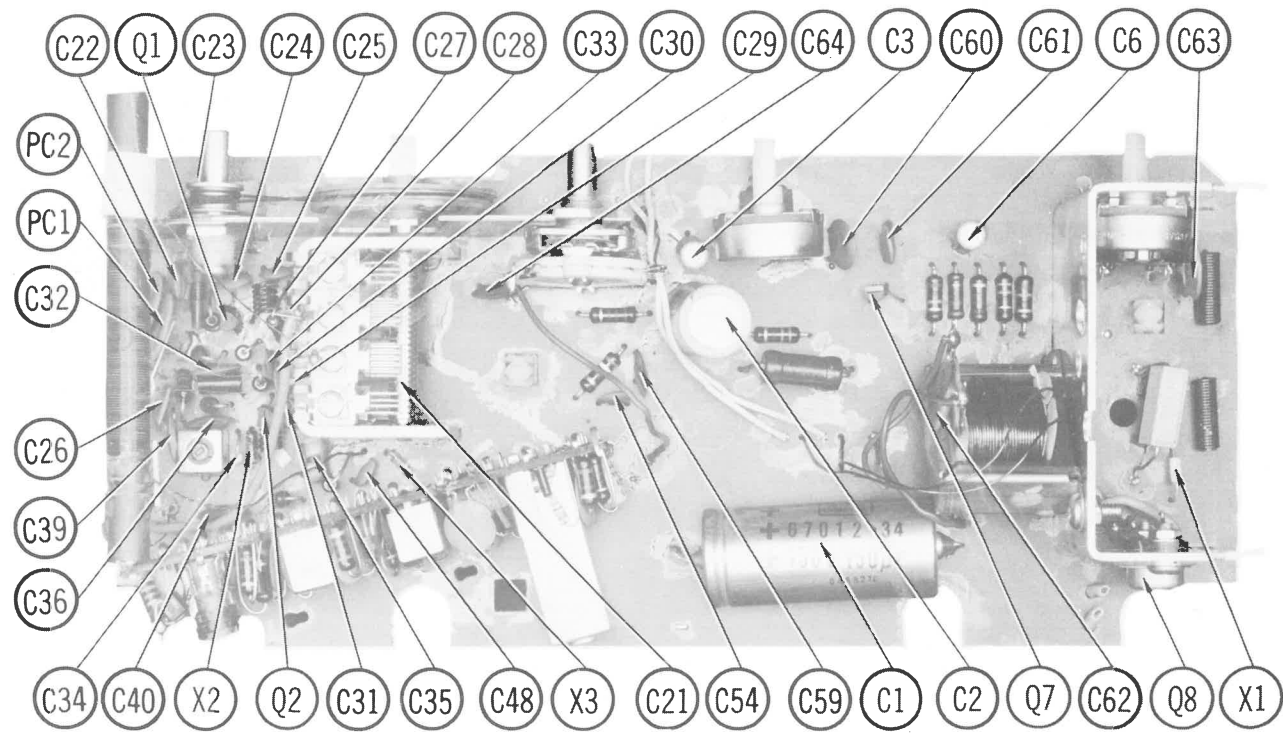
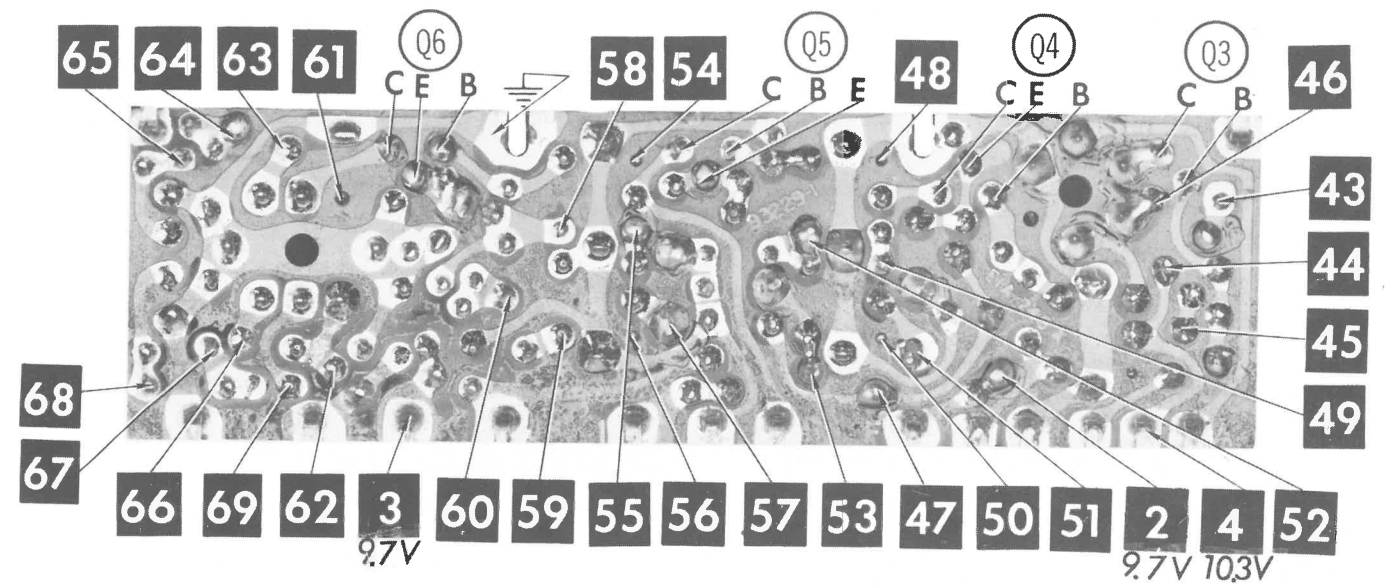
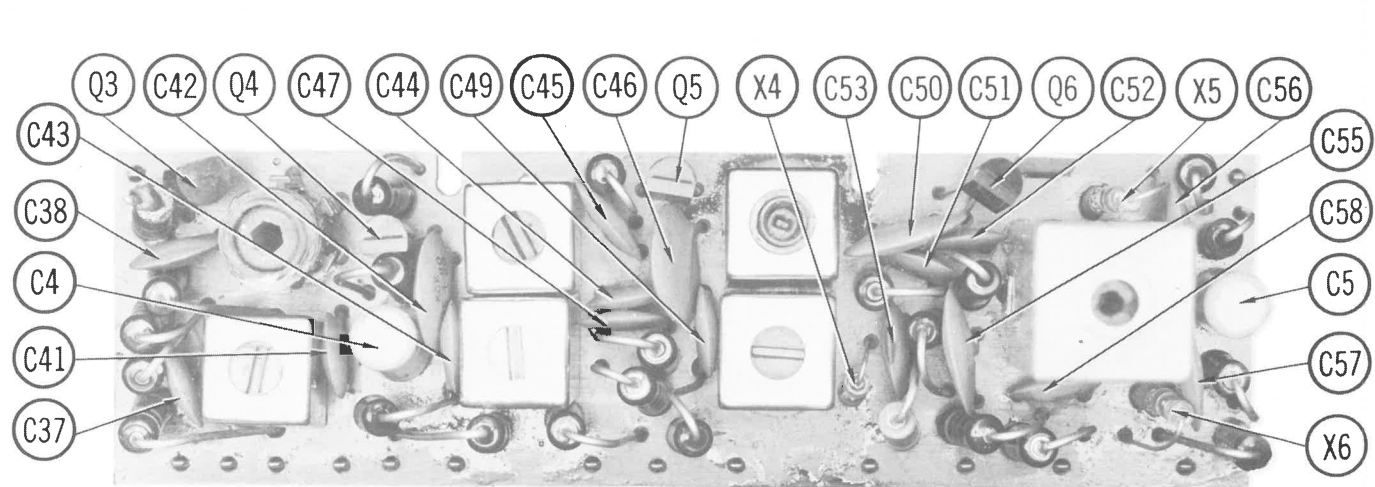
ARVIN CHASSIS 1.46601, 1.46701

SET 1025 FOLDER 5









A Howard W. Sams CIRCUITRACE Photo

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: GENERAL CEMENT WALSCO
A1 thru A5, A9, A12, A13-8868, 8987, 9089 2531-X, 2541, 2587
A6, A8, A10 9440 2501
A7, A11 9296, 9297, 9300 2510, 2546, 2547

AM ALIGNMENT - SELECTOR IN AM POSITION

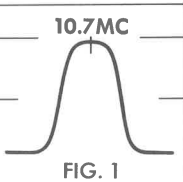
Fashion loop of several turns of wire and connect generator across loop. Set volume control at maximum.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
1. 455KC (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. 1640KC	"	"	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 IF ALIGNMENT USING AM SIGNAL GENERATOR - SELECTOR IN FM POSITION

High side of generator thru .001mfd to point \diamond , 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 \diamond , common to ground.	A7, A8, A9, A10	Adjust for maximum.
6. "	"	DC probe to point \diamond , 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

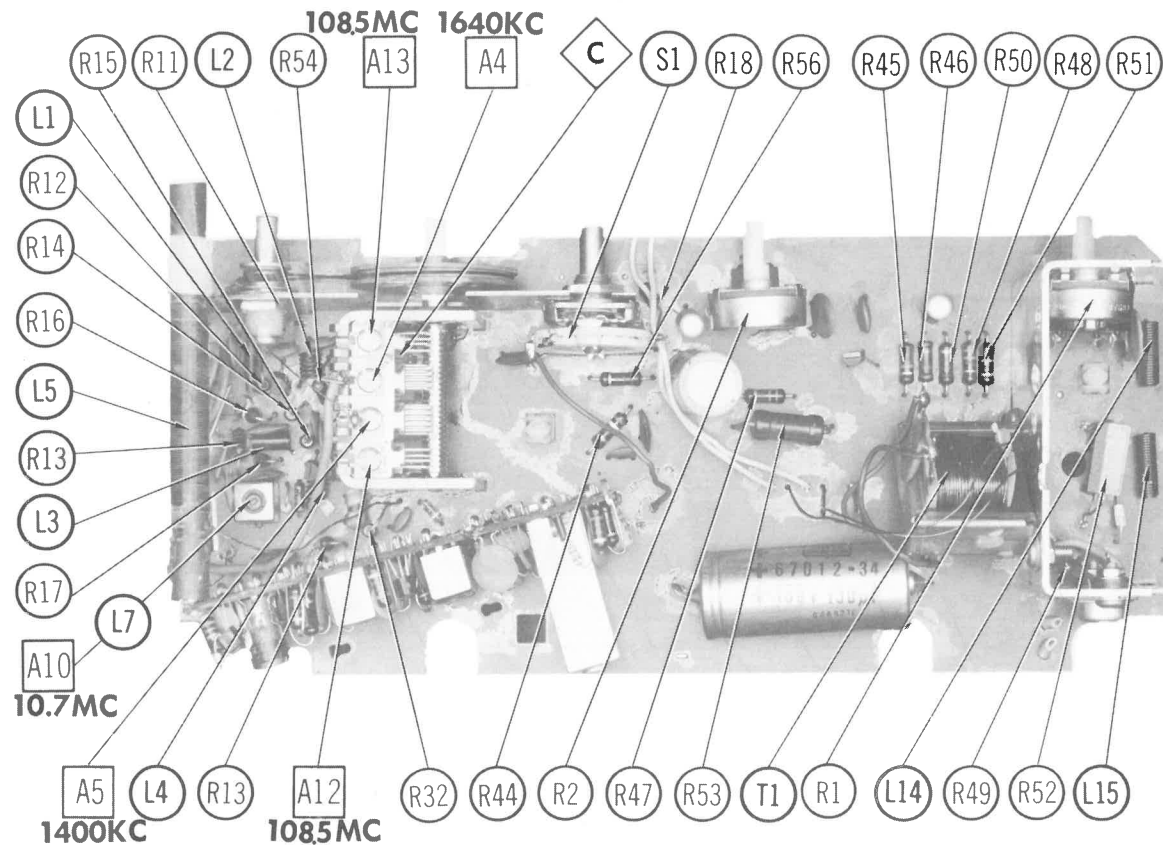
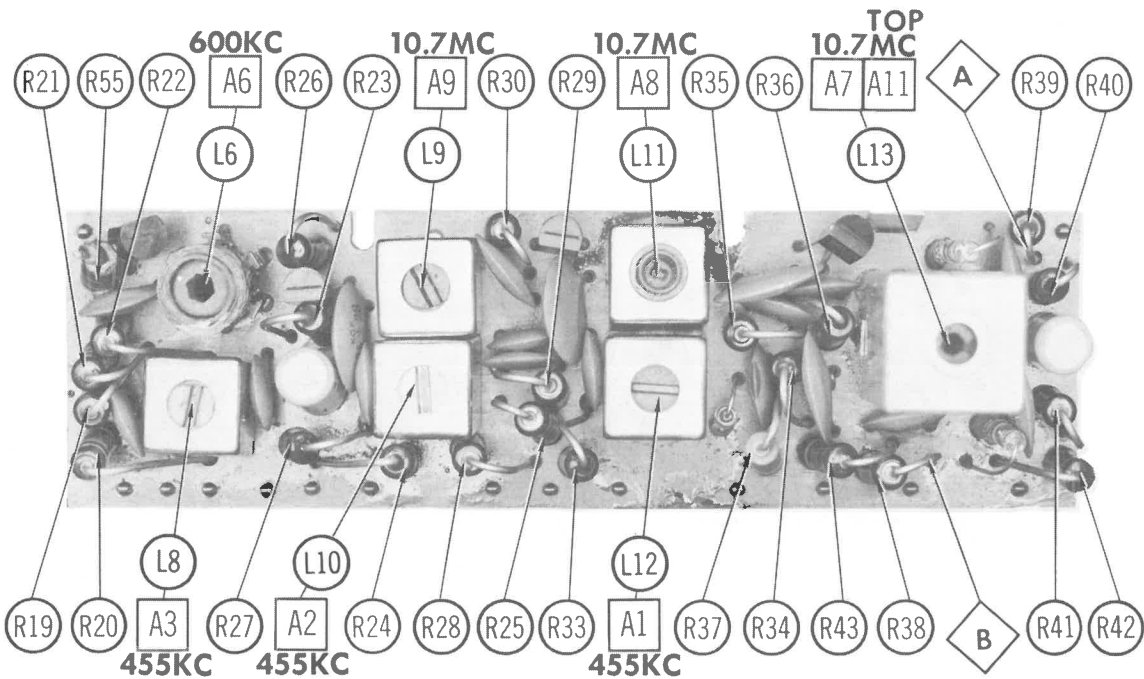
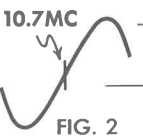
High side of generator thru .001mfd to point \diamond , low side to ground. Use only enough marker signal for indication. Use 60v frequency modulated signal with 450KC sweep. Use 60v sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
5. 10.7MC (450KC Swp.)	Point of non-interference	Vert. amp. of scope to point \diamond , low side to ground.	A7, A8, A9, A10	Disconnect stabilizing capacitor C5. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C5.
6. "	"	Vert. amp. to point \diamond , low side to ground.	A11	Adjust A11 (secondary) to place marker at center of "S" curve similar to Fig. 2. Adjust A7 (primary) for maximum amplitude and straightness of line.

FM RF ALIGNMENT - SELECTOR IN FM POSITION

Connect generator across antenna terminals with 120 Ω 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 \diamond , common to ground.	A12, A13	Adjust for maximum.



ARVIN CHASSIS
1.46601, 1.46701

FOLDER 5