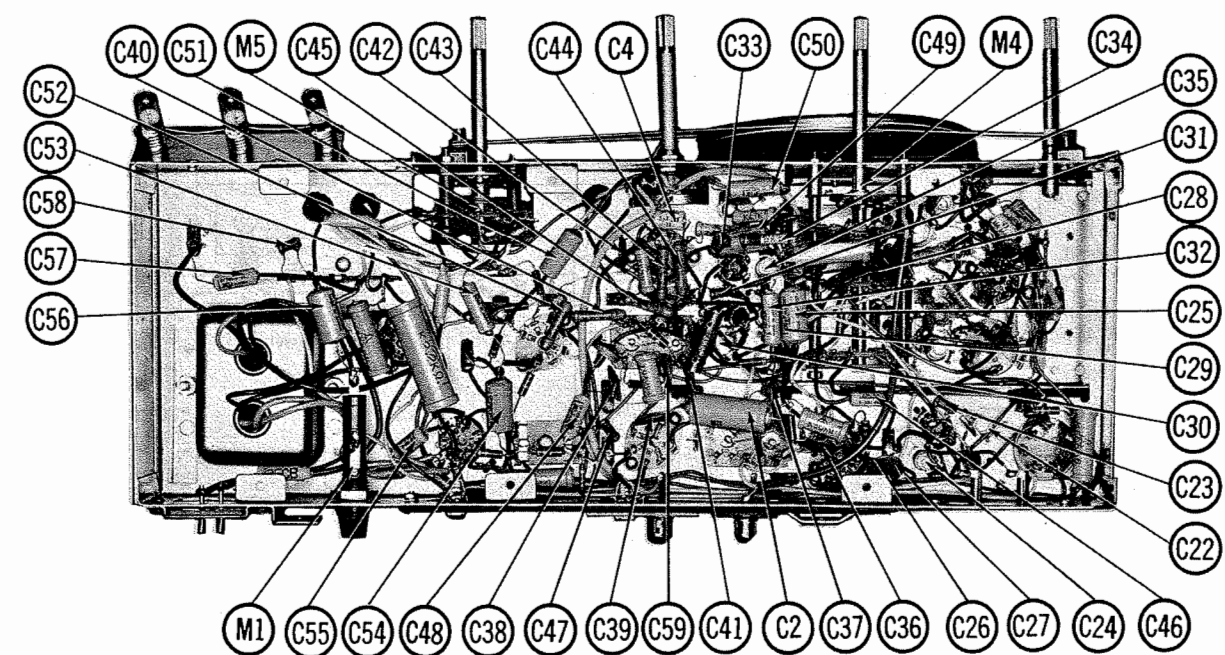


FM RF SUBCHASSIS



CHASSIS-BOTTOM VIEW, CAPACITOR, & MISC IDENT.

SET 682 FOLDER 11

VISTA  
MODEL 640

PHOTOFACT® Folder

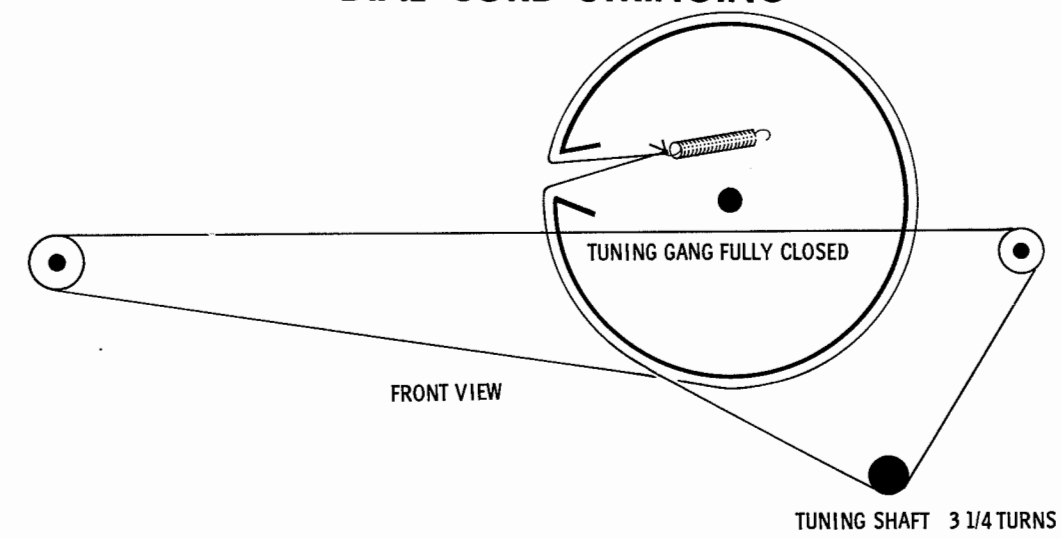
VISTA  
MODEL 640



VISTA  
MODEL 640

TRADE NAME	Vista Model 640		
SUPPLIER	Craig-Panorama, Inc., 3412 So. La Cienega Blvd., Los Angeles, California		
TYPE SET	AC Operated 8 Tube BC-SW-FM Receiver		
POWER SUPPLY	110-120 Volts AC 60 Cycles	RATING	53 Watts, .51 Amp. @ 117 Volts AC
TUNING RANGE	BROADCAST 530-1650KC	FREQ MOD	88-108MC
		SHORTWAVE	6-18MC

DIAL CORD STRINGING



HOWARD W. SAMS & CO., INC. Indianapolis 6, Indiana

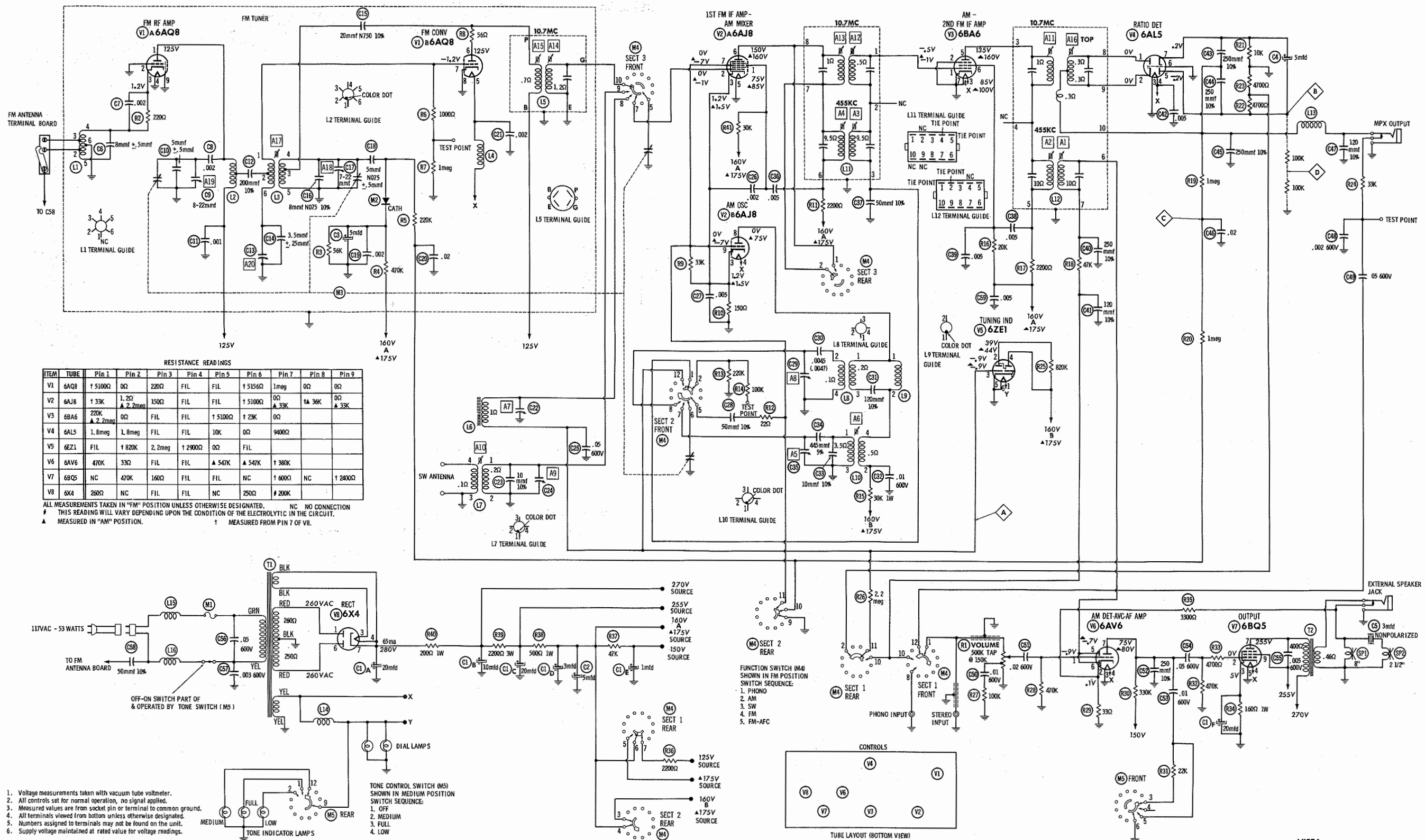


The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of the particular type of replacement part listed. MK551

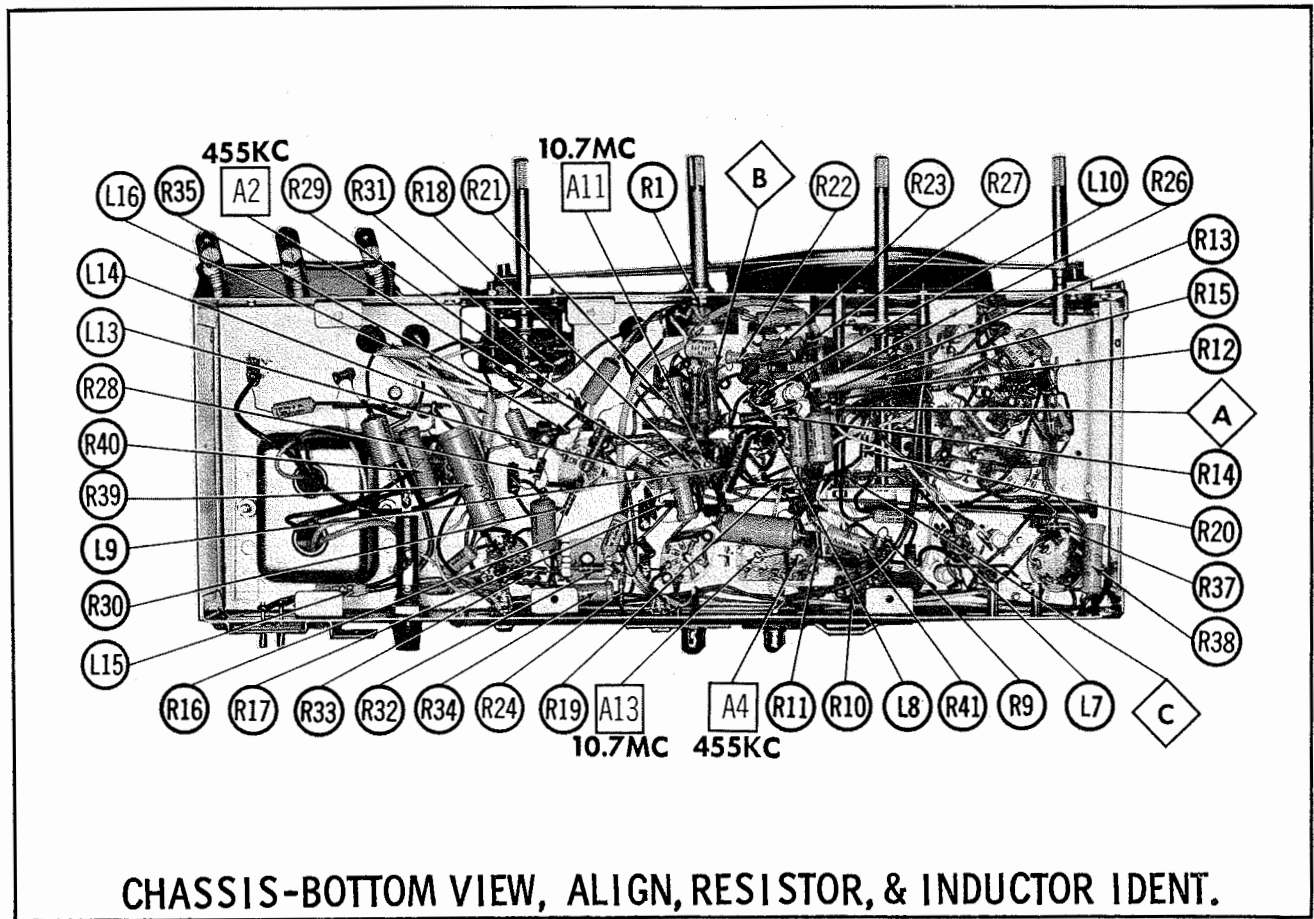
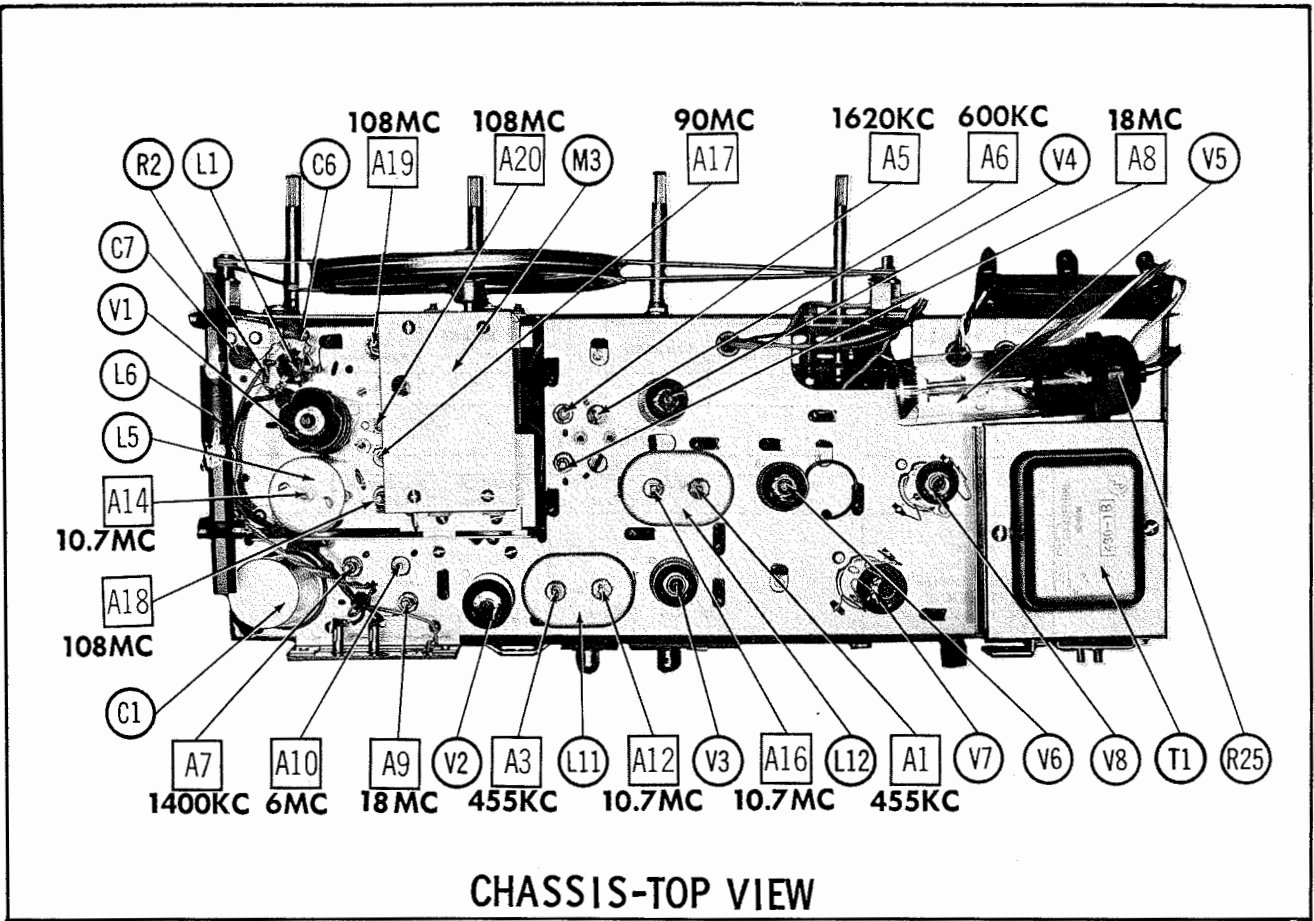
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DATE 3-64 SET 682 FOLDER 11

SET 682 FOLDER 11



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# ALIGNMENT INSTRUCTIONS

Maintain line voltage at rated value. Allow a 15 minute warmup for receiver and equipment.  
Use only enough generator output to obtain a suitable indication.  
Suggested Alignment Tools: All GENERAL CEMENT: 8868, 9087, 9089 WALSCO: 2528, 2541, 2587

## AM ALIGNMENT - SELECTOR IN INDICATED POSITION

1.	455KC (Unmod.)	Tuning gang fully open.	DC probe of VTVM to point $\diamond$ common to ground.	A1, A2, A3, A4,	Adjust for maximum.
2.	1650KC	"	"	A5	"
3.	600KC	600KC	"	A6	Rock tuning gang and adjust for maximum. Repeat steps 2 and 3.
4.	1400KC	Tune to signal	"	A7	Adjust for maximum.
5.	18MC	18MC	"	A8, A9	"
6.	6MC	6MC	"	A10	"

## FM ALIGNMENT USING AM SIGNAL GENERATOR - SELECTOR IN FM POSITION

High side to ungrounded shield over FM converter tube, low side to ground for IF, across FM antenna terminals with 120 $\Omega$  carbon resistor in series with each lead for RF.

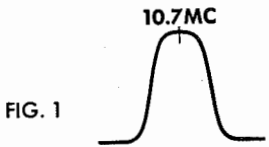
Connect two matched 100K ( $\pm 1\%$ ) resistors in series from point  $\diamond$  to chassis. The junction of these two resistors is alignment point  $\diamond$ , as shown on the schematic.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
7. 10.7MC (Unmod.)	Point of non-interference.	DC probe of VTVM to point $\diamond$ ; common to ground.	A11, A12, A13, A14, A15	Adjust for maximum.
8. "	"	DC probe to point $\diamond$ ; common to point $\diamond$ .	A16	Adjust for zero reading. A positive or negative reading will be obtained on either side of the correct setting.
9. 90MC (Unmod.)	90MC	DC probe of VTVM to point $\diamond$ ; common to ground.	A17	Adjust for maximum.
10. 108MC	108MC	"	A18, A19, A20	"

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

High side to ungrounded shield over FM converter, low side to ground.  
Use 60% frequency modulated signal with 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.

GENERATOR FREQUENCY	DIAL SETTING	INDICATOR	ADJUST	REMARKS
7. 10.7MC (450KC Swp.)	Point of non-interference.	Vert. amp. of scope to point $\diamond$ ; low side to ground.	A11, A12, A13, A14, A15	Disconnect stabilizing capacitor C4. Adjust for maximum gain and symmetry of response similar to Fig. 1 with marker as shown. Reconnect C4.
8. "	"	Vert. amp. to point $\diamond$ ; low side to ground.		Adjust to place marker at center of crossover lines similar to Fig. 2. SLIGHTLY retouch A11 for maximum amplitude and straightness of crossover lines.



VISTA  
MODEL 640

FOLDER 11



PARTS LIST 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

* AMPEREX *			GENERAL ELECTRIC			RCA			RAYTHEON			SYLVANIA		
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	FM RF Amp. -FM Conv.	6AQ8	V5	Tuning Indicator	6ZE1									
V2	AM Mixer-1st FM IF Amp.	6AJ8	V6	AM Det-AVC-AF Amp.	6AV6									
V3	1st AM-2nd FM IF Amp.	6BA6	V7	Output	6BQ5									
V4	Ratio Detector	6AL5	V8	Rectifier	6 X 4									

ELECTROLYTIC CAPACITORS

ITEM No.	RATING		REPLACEMENT DATA						
	CAP.	VOLT.	Vista PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	GENERAL ELECTRIC PART No.	GENERAL INSTRUMENT PART No.	MALLORY PART No.	SPRAGUE PART No.
C1A	20	350							
B	10	350							
C	20	350							
D	3	350							
E	1	350							
F	20	50							
C2	5	350		PRS1600	BR4-350	QT1-4	TD-4-450	TC60	TVA-1601
C3	5	50		CRE754A	NLW5-50	MT1-3	MLV5-50	TT50X5	TE-1303
C4	5	50		CRE754A	NLW5-50	MT1-3	MLV5-50	TT50X5	TE-1303
C5	3	10NP		PRS7405	BBR4-150	NPQT-1	MLV5-50	TCN503	TVANS-1219

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

FIXED 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.
C6	8mmf ±.5mmf		BPD-002	DD-202	BYA10D2	CCD-202	B-220	10TCC-V82
C7	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C8	.002							5HK-D20
C9	8-22							
C10	5mmf ±.5mmf			TCZ-4R7	C10V47C	CCTO-050	CNO-547	10TCC-V50
C11	.001			CPR-1000J				
C12	200	10%		D6-201	LA10T2-S3	CCD-201	GP320	10TS-T20
C13								
C14	3.5mmf ±.25mmf			TCZ-3R3	C10Q2U	CCTN-220	CNO-533	10TCC-V33
C15	20 N750 10%			TCN-20			CN7-420	10TCU-Q20
C16	8mmf N075 10%							
C17	7-22							
C18	5 N075 ±.5mmf							
C19	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C20	.02 250V		P488N-02	DD-203	DPMS4S2	4DP-2-203	GEM-412	4TM-S20
C21	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C22								
C23	10	10%		TCZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C24								
C25	.05 600V		P688N-05	DD-503	PM8S5	6DP-3-503	GEM-615	6TM-S50
C26	.002		BPD-002	DD-202	BYA10D2	CCD-202	B-220	5HK-D20
C27	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C28	50	10%		TCZ-50	C10Q6C	CCTO-510	CNO-450	10TCC-Q50
C29								
C30	.0047	(.0047) †		CPR-4700J				
C31	120	10%		TCZ-120	C10T12C	CCTO-121	CNO-310	10TCC-T12
C32	.01 600V		P688N-01	DD-103	PM6S1	6DP-2-103	GEM-611	6TM-S10
C33	10	10%		TCZ-10	C10Q1C	CCTO-100	CNO-410	10TCC-Q10
C34	445	5%						
C35								
C36	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C37	50	10%		TCZ-50	C10Q5C	CCTO-510	CNO-450	10TCC-Q50
C38	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C39	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C40	250	10%		D6-251	LA10T25-C4	CCD-251	GP325	10TS-T25
C41	120	10%		D6-121	LA10T12-S3	CCD-251	GP325	10TS-T12
C42	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50
C43	250	10%		D6-251	LA10T25-C4	CCD-251	GP325	10TS-T25
C44	250	10%		D6-251	LA10T25-C4	CCD-251	GP325	10TS-T25
C45	250	10%		D6-251	LA10T25-C4	CCD-251	GP325	10TS-T25
C46	.02 250V		P488N-02	DD-203	DPMS4S2	4DP-2-203	GEM-412	4TM-S20
C47	120	10%		D6-121	LA10T12-S3	CCD-121	GP312	10TS-T12
C48	.002 600V		P688N-002	DD-202	DPMS6D2	6DP-1-202	GEM-622	6TM-D20
C49	.05 600V		P688N-05	DD-503	PM8S5	6DP-3-503	GEM-615	6TM-S50
C50	.01 600V		P688N-01	DD-103	PM6S1	6DP-2-103	GEM-611	6TM-S10
C51	.02 600V		P688N-02	DD-203	DPMS6S2	6DP-2-203	GEM-612	6TM-S20
C52	250	10%		D6-251	LA10T25-C4	CCD-251	GP325	10TS-T25
C53	.01 600V		P688N-01	DD-103	PM6S1	6DP-2-103	GEM-611	6TM-S10
C54	.05 600V		P688N-05	DD-503	PM8S5	6DP-3-503	GEM-615	6TM-S50
C55	.005 600V		P688N-005	DD-502	PM6D5	6DP-1-502	GEM-625	6TM-D50
C56	.05 600V		P688N-05	DD-503	PM8S5	6DP-3-503	GEM-615	6TM-S50
C57	.003 600V		P688N-003	DD-302	DPMS6D3	6DP-1-302	GEM-623	6TM-D30
C58	50	10%		TCZ-50	C10Q6C	CCTO-510	CNO-450	10TCC-Q50
C59	.005		BPD-005	DD-502	BYA10D5	CCD-502	B-250	5HK-D50

† Alternate Value

PARTS LIST AND DESCRIPTION (CONTINUED)

CONTROLS

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

ITEM No.	USE	RESISTANCE	REPLACEMENT DATA			
			Vista PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS-IRC PART No.
R1	Volume	500K 150K Tap	132E	F14-500K SU204	A47, F2-500K KSS-3	Q13-133X or (BU1, CF43T, SS1, DC1) *

\*"SNAPTROL"

RESISTORS (Power and Special)

ITEM No.	RATING	REPLACEMENT DATA			ITEM No.	RATING	REPLACEMENT DATA		
		IRC PART No.	WORKMAN PART No.	REMARKS			IRC PART No.	WORKMAN PART No.	REMARKS
R39	2200Ω 3W	PW3-2200	3G2200						

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		Vista PART No.	MERIT PART No.	MILLER PART No.	STANCOR PART No.	WORKMAN PART No.	
L1	FM Ant.						
L2	FM RF						
L3	FM Osc.						
L4	Flt. Choke(19 Turns)						
L5	1st FM IF						
L6	Loopstick						
L7	SW Ant.						
L8	SW. Osc.						
L9	RF Choke (9uh)						
L10	BC. Osc.						
L11	2nd FM-1st AM IF						
L12	Ratio Detector-2nd AM IF						
L13	Audio Choke(520uh)						
L14	Flt. Choke(19 Turns)						
L15	Line Choke(19 Turns)						
L16	Line Choke(19 Turns)						

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA					NOTES
	PRI.	SEC. 1	SEC. 2	Vista PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T1	117VAC	520VCT	6.3VAC	PT-430-1B					
	.51A	.065ADC	.6A						
	SEC. 3	SEC. 4	SEC. 5						
	6.3VAC								
	3.4A								

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
	PRI.	SEC.	Vista PART No.	MERIT PART No.	STANCOR PART No.	THORDARSON PART No.	TRIAD PART No.	
T2	6200Ω	3-4Ω	TC-6N	A-3020①	A-3824①	22S33 ①	S-49X①	① Drill New Mtg. Hole(s).

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
				Vista PART No.	QUAM PART No.	
SP1	8"	PM	3-4Ω	P8434W	8A4PAZ4	
SP2	2 1/2"	PM	6-8Ω	HT-36S		

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA					
			Vista PART No.		LITTELFUSE PART No.		BUSS PART No.	
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER
M1		1 Amp. 117 V			312001. 1 Amp 250V		AGC 1	HKP

MISCELLANEOUS

ITEM No.	PART NAME	Vista PART No.	NOTES
M2	Diode		FM AFC
M3	Tuning Cap		4 Gang
M4	Switch		Function
M5	Switch		Tone, Off-On

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FOLDER II