

CABINET-REAR VIEW

HORIZONTAL SWEEP CIRCUIT ADJUSTMENTS

Turn the set on and allow it to warm up for 2 minutes.

Tune in a TV station, preferably with a test pattern.

Connect a cliplead from point ⑤ to chassis. Connect another clip lead across the Horizontal Stabilizing coil (L19).

Adjust the Horizontal Hold until the picture synchronizes horizontally. (It may float back and forth.)

Remove the clip lead from L19. Adjust the Horizontal Frequency slug (B1) until the picture is again in frequency. Remove clip lead from point ⑤ and chassis.

Turn the Horizontal Drive Trimmer (B2) (Horiz. Size) counterclockwise until a vertical white line (drive line) appears near the center of the screen, then turn clockwise until line just disappears. If drive line cannot be obtained, adjust B2 for proper width.

If B2 is adjusted, recheck adjustment of B1 and Horizontal Hold.

DISASSEMBLY INSTRUCTIONS

CHASSIS REMOVAL

1. Remove 5 push-on type knobs from the front of cabinet.
2. Remove 1 wood screw holding front escutcheon. Remove escutcheon.
3. Remove 3 push-on type knobs now visible.
4. Remove 1 wood screw and 1 metal screw holding the rear cover. Remove rear cover.
5. Remove speaker leads, HV lead, picture tube socket, yoke plug and picture tube bracket grounding wire.

6. Remove 3 chassis bolts from bottom of cabinet and 1 bolt from rear of chassis.

7. Remove chassis.

PICTURE TUBE REMOVAL

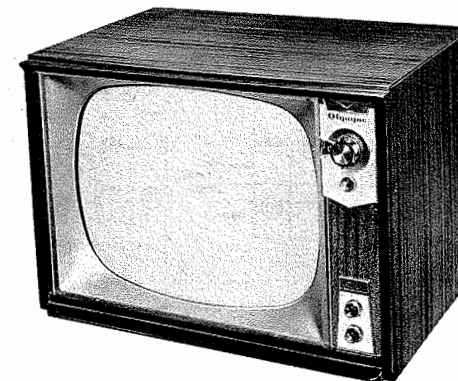
1. Remove chassis.
2. Remove 2 picture tube mounting bracket bolts from the bottom and 1 from the top of cabinet.
3. Remove picture tube.

FOLDER 1
SET484

PHOTOFACT® Folder



OLYMPIC CHASSIS JB, JBU, JD, JDU, JF, JFU, JH, JHU, 144, 146, 147, 149, 153



MODEL TB201 (Ch. JB)

TRADE NAME	OLYMPIC	MODELS	CHASSIS
		CB206, CB207, CB214, KB216, TB201	JB
		CB206U, CB207U, CB214U, KB216U, TB201U	JBU
		CD111P, CD139, CD208, CD209, CD209P, CD210P, CD211D, KD218, KD219, KD221, KD222P, KD223, TD203	JD
		CD111PU, CD139U, CD208U, CD209U, CD209PU, CD210PU, CD211DU, KD218U, KD219U, KD221U, KD222PU, KD223U, TD203U	JDU
		CF440, CF441	JF
		CF440U, CF441U	JFU
		KH436, KH437	JH
		KH436U, KH437U	JHU
MANUFACTURER	Olympic Radio & Television Inc., 34-01 38th Avenue, Long Island City 1, N. Y.		
TYPE SET	Television Receiver (Some Models with FM-AM Receiver Including Stereo Amplifier and 4 Speed Automatic Record Changer)		
TUBES	TV: VHF-Fifteen, FM-AM Receiver Ch. 144-Eight, AM Receiver Ch. 146 or 153 -Five, FM-AM Receiver Ch. 147 or 149 -Ten		
POWER SUPPLY	110-120 Volts AC, 60 Cycle		
TUNING RANGE	TV: Channels 2 thru 13 VHF, 14 thru 83 UHF, Video IF 45.75MC, Sound IF 41.25MC (Inter-carrier) FM-AM Receiver Ch. 144: FM: 87-109MC, IF 10.7MC AM: 535-1700KC, IF 455KC AM Receiver Ch. 146 or 153: 540-1620KC, IF 455KC FM-AM Receiver Ch. 147 or 149: FM: 87.5-108.5MC, IF 10.7MC AM: 540-1620KC, IF 455KC		

"KB", "KD", or "KH" MODELS MAY USE FM-AM RECEIVER CHASSIS 144, 147, 149, OR AM RECEIVER CHASSIS 146, 153, WITH RECORD CHANGER PART #RX26202-1.

SERVICING IN THE FIELD

SAFETY GLASS REMOVAL

Remove 2 push-on type knobs from the front. Remove 5 screws holding trim. Tilt glass out and remove.

FUSE

One fuse is used for Horizontal Sweep Circuit protection. (For location, see "Tube Placement Chart".)

One fuse wire is used for filament protection and one for low voltage supply protection. (For location, see M3 & M4, "Chassis - Bottom View".)

TUNER OSCILLATOR ADJUSTMENTS

To touch-up the VHF Oscillator, remove Channel Selector, Fine Tuning knobs, and escutcheon.

AGC

The AGC may be varied by means of a Local-Distant switch. (For location, see "Tube Placement Chart".)

FOCUS

The focus may be varied by the position of a strap on the

base of the picture tube.

HORIZONTAL OSCILLATOR FIELD ADJUSTMENTS

Coarse adjustment of the Horizontal Hold is accomplished by the proper setting of the Horizontal Frequency slug. (For location, see "Tube Placement Chart".)

HORIZONTAL DRIVE

The horizontal drive may be varied by a Horizontal Size trimmer. (For location, see "Tube Placement Chart".)

BUZZ ADJUSTMENT

To eliminate intercarrier buzz, adjust the Clarifier Adjustment for MINIMUM buzz and maximum sound. (For location, see "Tube Placement Chart".)

CENTERING

Centering is accomplished by 2 magnetic rings, located behind the yoke, on the neck of the picture tube.

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

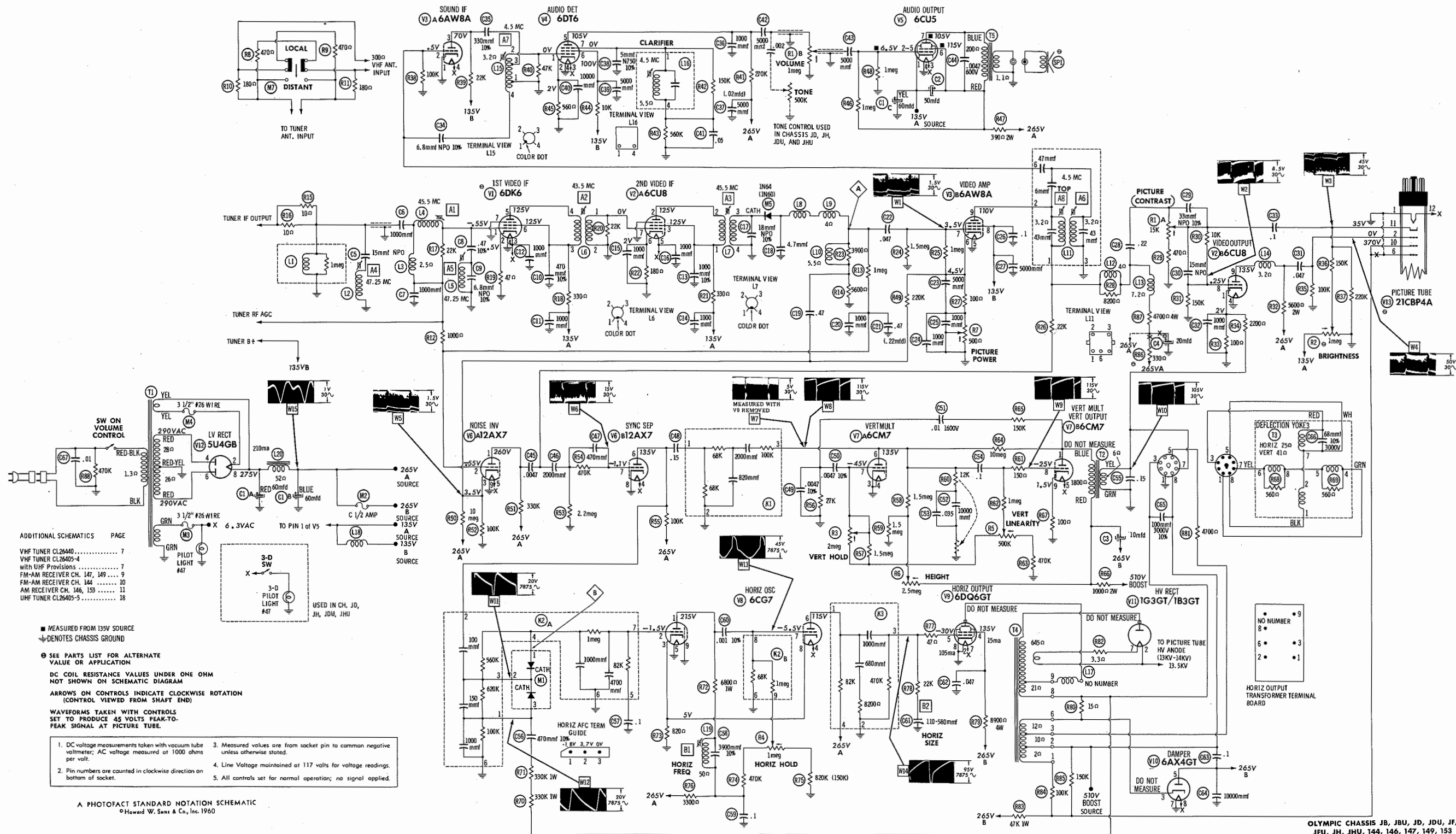


The listing of any available replacement part herein does not constitute in any case a recommendation, warranty or guaranty by Howard W. Sams & Co., Inc., as to the quality and suitability of such replacement part. The numbers of these parts have been compiled from information furnished to Howard W. Sams & Co., Inc., by the manufacturers of JA609

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OLYMPIC CHASSIS JB, JBU, JD, JDU, JF, JFU, JH, JHU, 144, 146, 147, 149, 153

SET484 FOLDER 1



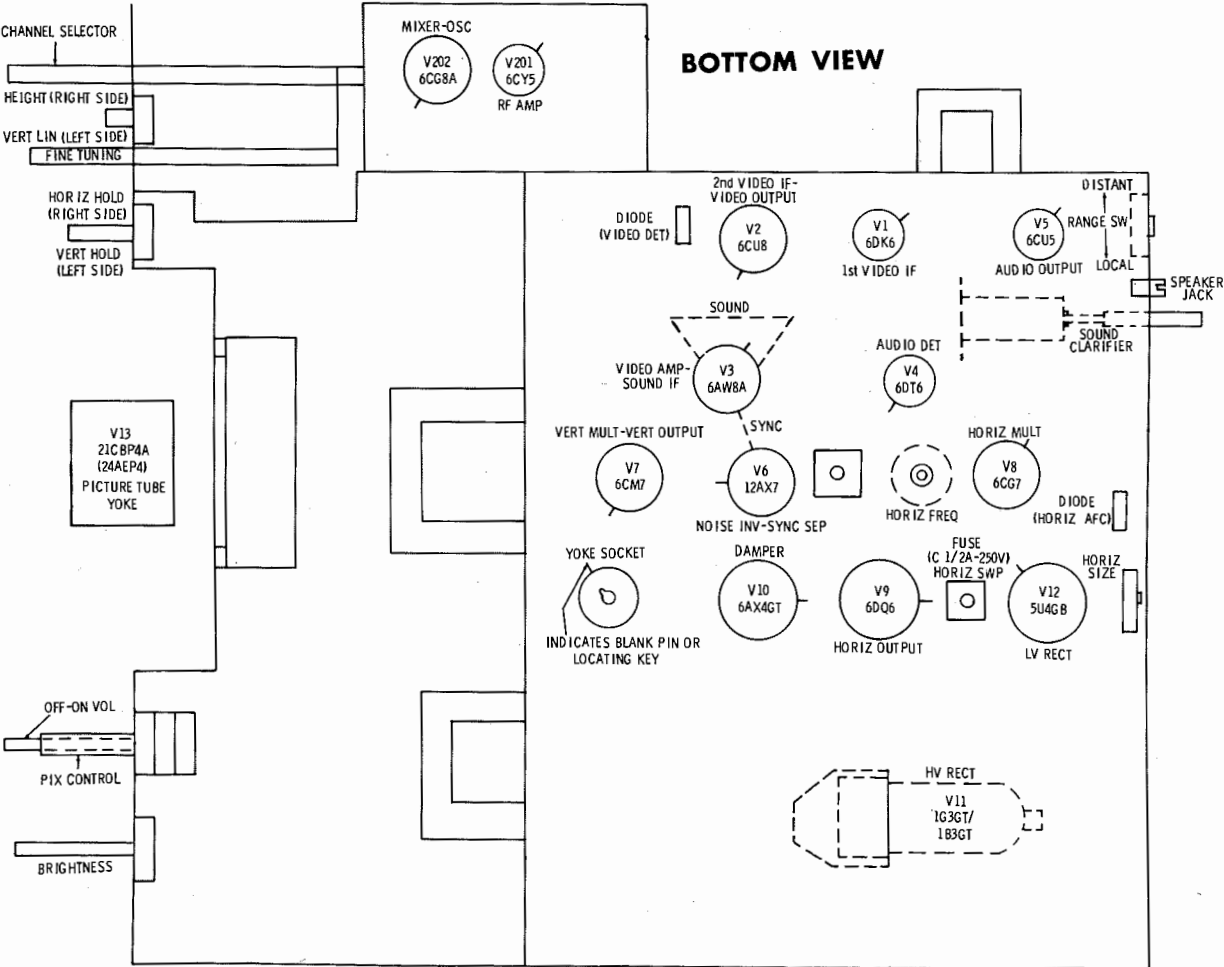
OLYMPIC CHASSIS JB, JBU, JD, JDU, JF,
JFU, JH, JHU, 144, 146, 147, 149, 153

RESISTANCE MEASUREMENTS

ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	6DK6	1meg	47Ω	.2Ω	0Ω	■ 330Ω	■ 330Ω	0Ω		
V2	6CU8	100Ω	■ 330Ω	■ 330Ω	0Ω	.2Ω	180Ω	.1Ω	● 15K	† 5600Ω
V3	6AW8A	0Ω	100K	■ 22K	.2Ω	0Ω	● 210Ω	650K	■ .5Ω	† 4700Ω
V4	6DT6	2.8Ω	560Ω	.2Ω	0Ω	† 270K	■ 10K	560K		
V5	6CU5	9	500K	.2Ω	0Ω	500K	† 390Ω	† 590Ω		
V6	12AX7	† 330K	1meg	70K	.2Ω	.2Ω	† 100K	2.7meg	0Ω	0Ω
V7	6CM7	† 2800Ω	NC	0Ω	0Ω	.2Ω	● † 2meg	● 1.5meg	● 1.7meg	100Ω
V8	6CG7	† 10K	2.3meg	820Ω	.2Ω	0Ω	† 82K	68K	820Ω	0Ω
V9	6DQ6	TP	0Ω	NC	† 8900Ω	470K	TP	.2Ω	0Ω	TOP CAP † 36Ω
V10	6AX4GT	NC	NC	† 200K	NC	† 0Ω	NC	0Ω	.2Ω	
V11	1G3GT 1B3GT	PINS 1 THRU 8 HAVE INFINITE RESISTANCE								TOP CAP † 680Ω
V12	5U4GB	NC	9	NC	28Ω	TP	26Ω	TP	9	
V13	21CBP4A	0Ω	100K	Pin 6 † 60K	Pin 10 † 60K	Pin 11 ● 270K	Pin 12 .2Ω			
V201	6CY5	1meg	0Ω	.2Ω	0Ω	■ 0Ω	■ 15K	0Ω		
V202	6CG8A	15K	■ 5200Ω	0Ω	0Ω	.2Ω	■ 2200Ω	■ 470Ω	0Ω	10K

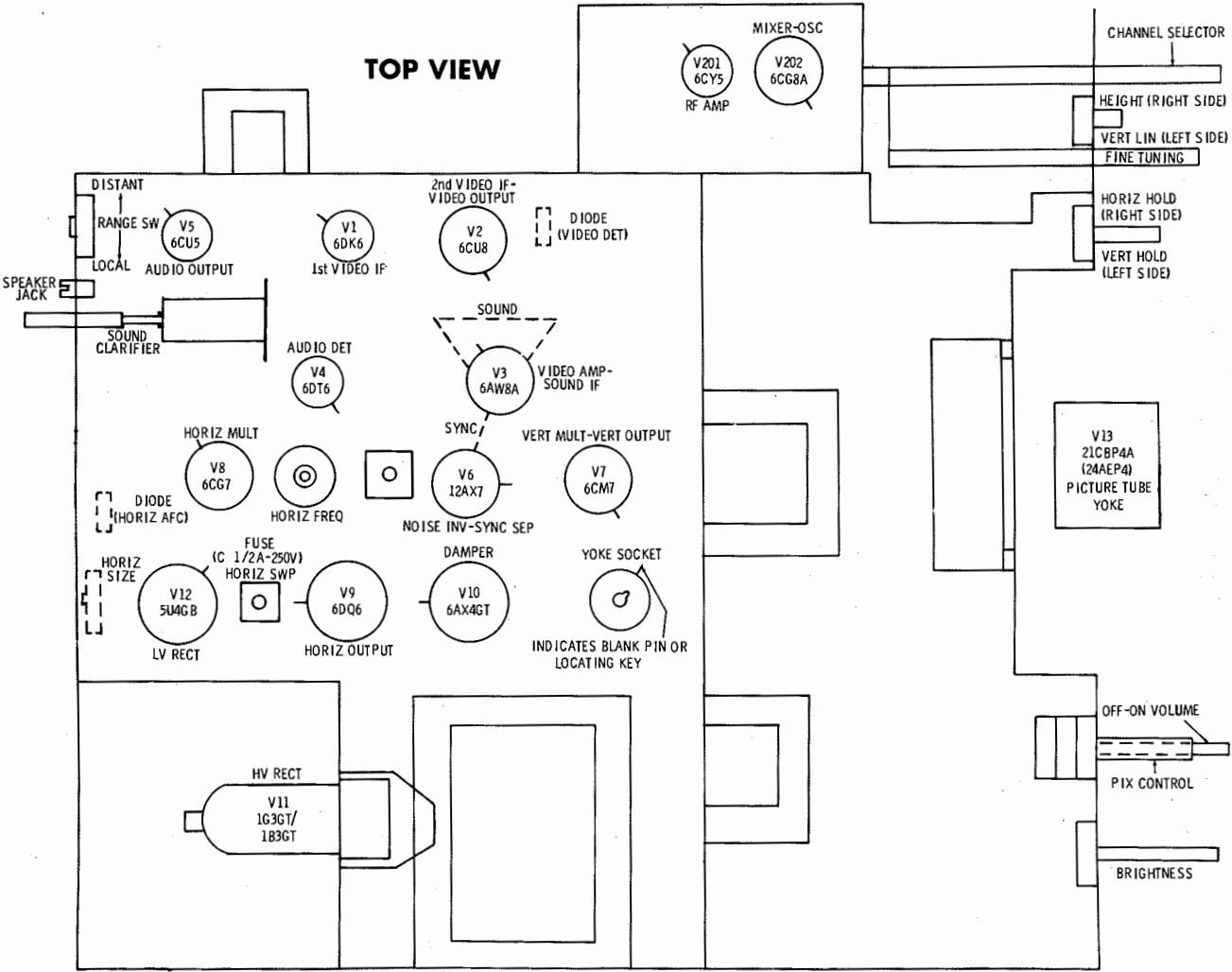
9 THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.
● THIS READING WILL VARY. CONTROL SET FOR NORMAL OPERATION.
† MEASURED FROM 135V SOURCE.
MEASURED FROM 265V SOURCE.
MEASURED FROM PIN 3 OF V10.

NC NO CONNECTION.
TP TIE POINT.



TUBE PLACEMENT CHART

TUBE PLACEMENT CHART



OLYMPIC CHASSIS JB, JBU, JD, JDU, JF, JFU, JH, JHU, 144, 146, 147, 149, 153

TUBE FAILURE CHECK CHART

The following chart lists tubes whose failures are most likely to produce indicated symptoms. Refer to tube placement chart for location and type of tube.

POWER SUPPLY FAILURE No raster, no sound Fuse Wire (LV Supply), Fuse Wire (F11), V12	LOSS OF PICTURE OR SOUND No pic, no sound, has raster V1, V2, Diode (Video Det.), V3 No pic, no sound, has snow V201, V202, V1 No pic, has sound, has raster V2, V3, V13 Has pic, no sound V3, V4, V5
SWEEP FAILURE No raster, has sound V8, V9, V10, V11, V13, Fuse (Swp) No vertical deflection V7 Poor vert. linearity or foldover V7 Poor horiz. linearity or foldover V8, V9, V10 Narrow picture V8, V9, V10, V12 Vert. off freq. V7 Horiz. off freq. Diode (Horiz. AFC), V8	SYNC FAILURE No vert. sync V6 No horiz. sync V6 No vert. or horiz. sync V6

ALIGNMENT INSTRUCTIONS

PREF-ALIGNMENT INSTRUCTIONS

The High Voltage lead should be securely taped and kept away from the chassis.
Allow a 20 minute warm-up period for the receiver and test equipment.
Suggested Alignment Tools: Mixer Plate Coil, Althru A7. GENERAL CEMENT #8282, 8606, 8606L, 9295
WALSCO #2526, 2543, 2544, 2545
A8 GENERAL CEMENT #8721, 8722
WALSCO #2519

VIDEO IF ALIGNMENT

Connect the synchronized sweep voltage from the sweep generator to the horizontal input of the oscilloscope for horizontal deflection.
The generator output lead should be terminated with its characteristic impedance, usually 50 ohms.
Connect variable bias to IF AGC line. Adjust bias to obtain response curve which shows no indication of overloading.

	SWEEP GENERATOR COUPLING	SWEEP GENERATOR FREQUENCY	MARKER GENERATOR FREQUENCY	CHANNEL	CONNECT SCOPE	ADJUST	REMARKS
1.	Place a thin insulated metal strip between the Mixer-Osc. tube (V202), and tube shield. Connect the high side of sweep generator to the metal strip. Low side to chassis.	Not used	44.5MC (Unmod)	Any non-interfering channel	USE VTVM. DC probe thru 100K to point Δ . Common to chassis.	Mixer Plate Coil	Use only enough generator output to provide a usable indication on VTVM. Adjust for maximum deflection.
2.	"	"	45.5MC	"	"	A1	"
3.	"	"	43.5MC	"	"	A2	"
4.	"	"	45.5MC	"	"	A3	"
5.	"	"	47.25MC	"	"	A4, A5	Adjust for MINIMUM deflection.
6.	"	44MC (10MC Swp)	43.25MC 45.75MC 47.25MC	"	Vert. Amp. thru 100K to point Δ . Low side to chassis.		Use only enough sweep generator output to provide a usable pattern on scope. Check for response similar to Fig. 1 with markers as indicated. If necessary, retouch Mixer Plate Coil and A1 thru A5 for desired response.

SOUND IF ALIGNMENT

Connect the DC probe of the VTVM thru a 1meg.resistor to pin 1 (grid) of the Audio Detector. Common to chassis. Turn the set on and tune in a strong TV signal. Adjust A6 and A7 for maximum deflection on the VTVM. Disconnect the VTVM and adjust the Sound Clarifier for maximum undistorted sound. Retouch A6 and A7 for maximum volume.

4.5MC TRAP ALIGNMENT

Tune in a strong TV signal and set Contrast at maximum. Adjust the Fine Tuning until a beat pattern is visible. Adjust A8 for MINIMUM beat interference.

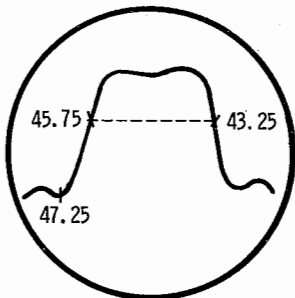
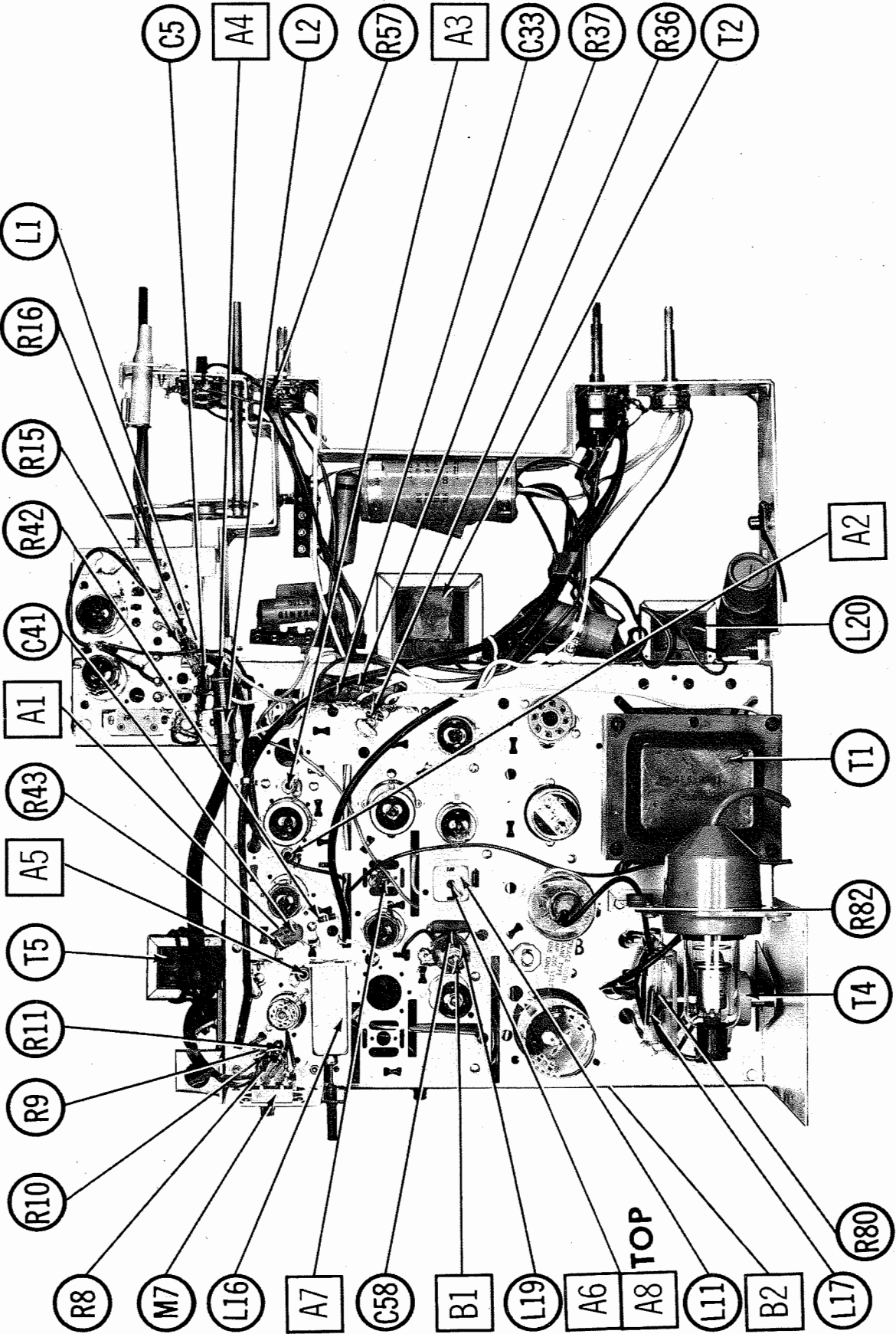
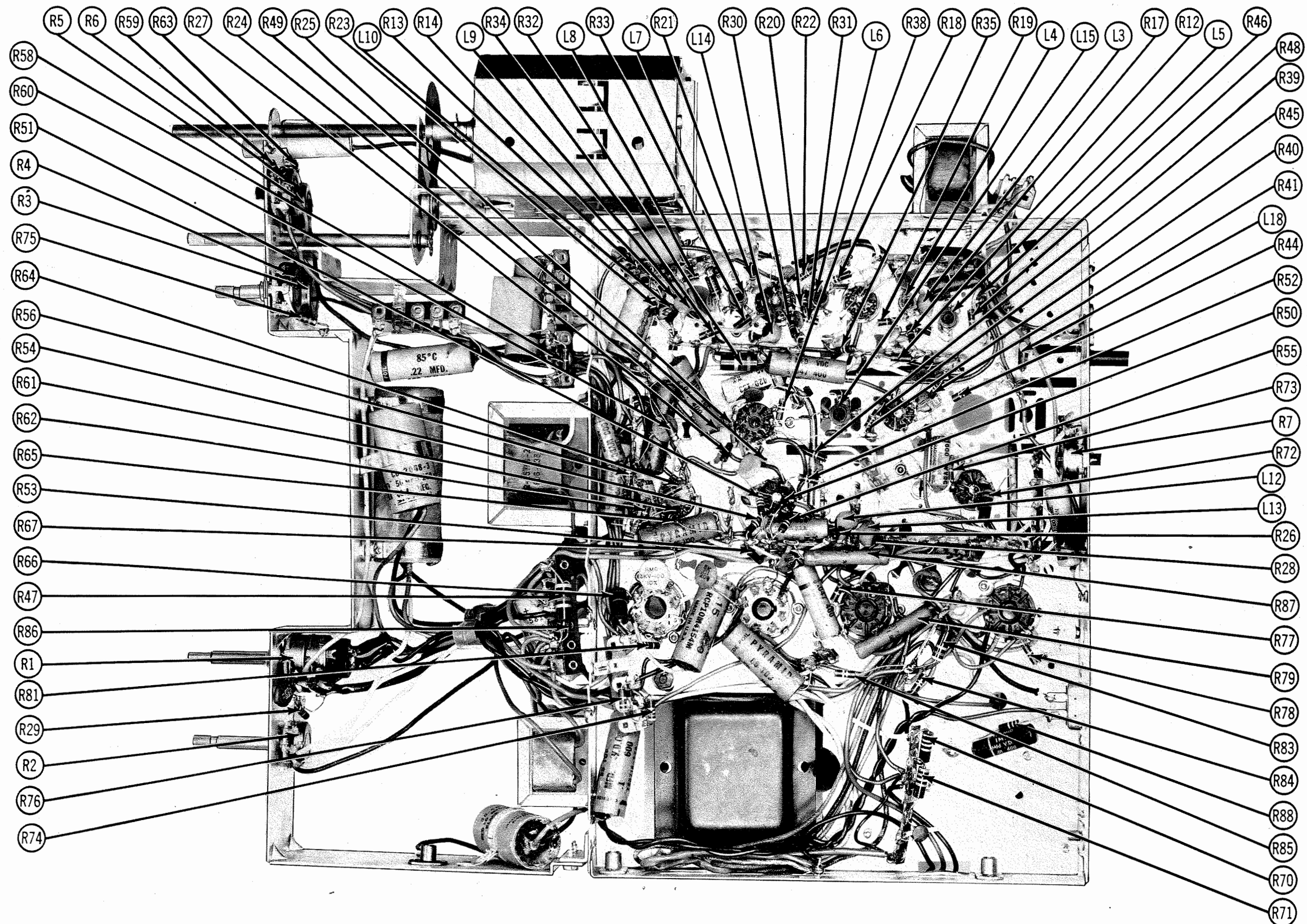


FIG.1



OLYMPIC CHASSIS JB, JBU, JD, JDU, JF, JFU, JH, JHU, 144, 146, 147, 149, 153
WELA POL - SISSEHCO AL

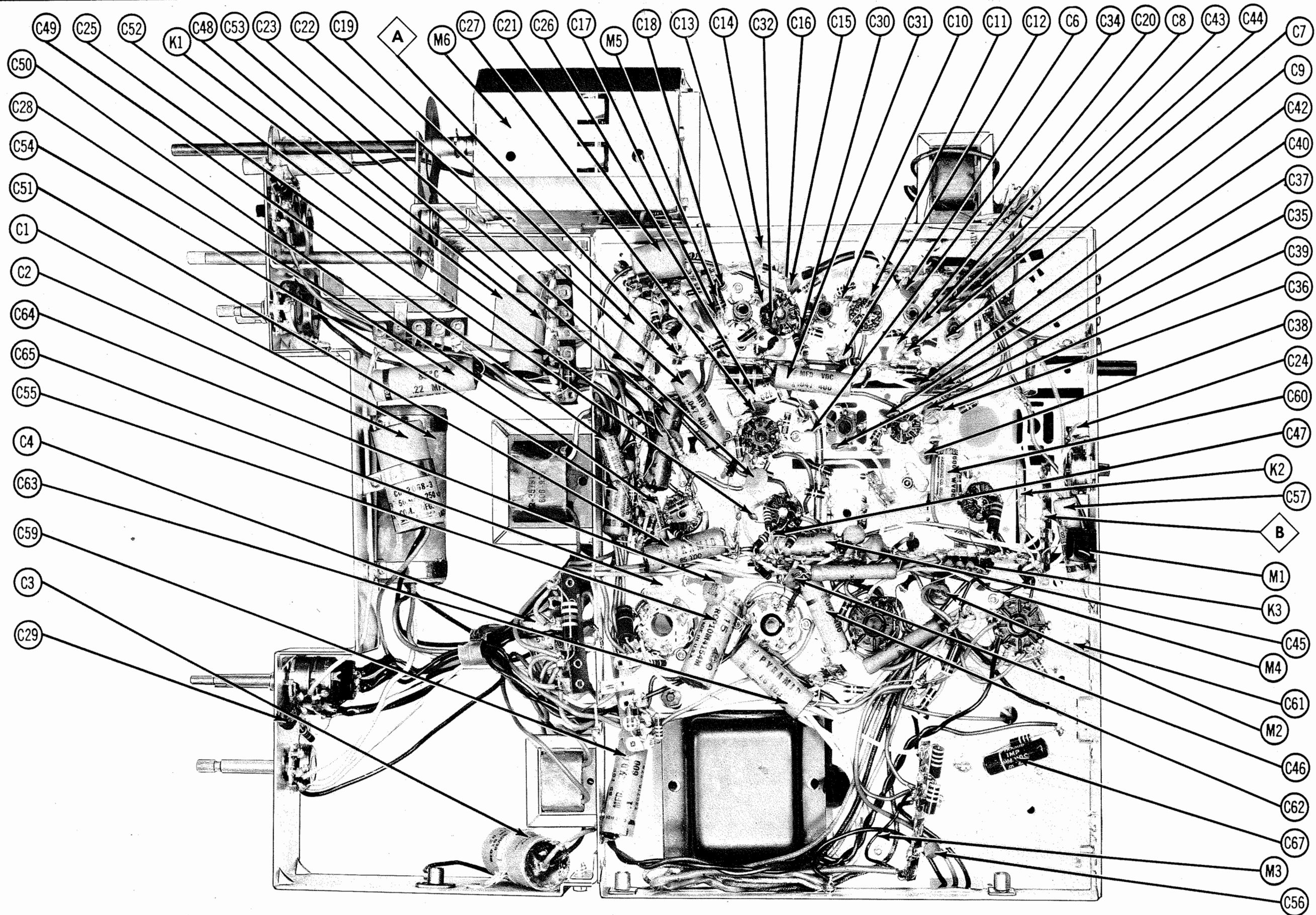
FOLDER 1



TV CHASSIS BOTTOM VIEW - RESISTOR & INDUCTOR IDENT.

OLYMPIC CHASSIS JB, JBU, JD, JDU, JF,
JFU, JH, JHU, 144, 146, 147, 149, 153

FOLDER 1



TV CHASSIS BOTTOM VIEW - CAPACITOR & MISC. IDENT.

OLYMPIC CHASSIS JB, JBU, JD, JDU, JF,
JFU, JH, JHU, 144, 146, 147, 149, 153

FOLDER 1

TUNER CL-26440

PARTS LIST AND DESCRIPTIONS

TUBES

• CBS •			GENERAL ELECTRIC •			RAYTHEON •			SYLVANIA •		
ITEM No.	USE	TYPE		ITEM No.	USE	TYPE					
V201	RF Amplifier	6CY5		V202	Mixer-Osc.	6CG8A					

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mica and Ceramic 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.
C201	100 N2200		NPO-DI 2.2	DTZ-2R2	C10V22C	* CCTO-2R2	CNO-522	30TCY-TJ10
C202	2.2		EF-001	MFT-1000		CCF-102	CT280A	10TCC-V22
C203	1000		DI-120	DD-121	L10T12	CCD-121	GP312	
C204	120		NPO-SI 1.5	TCZ-1R5	C10V15C		CNO-515	10TS-T12
C205	1.5		DI-18	DD-180	L10Q18	CCD-180	GP418	10TCC-V15
C206	18		NPO-SI 1.5	TCZ-1R5	C10V15C		CNO-515	10TS-QJ8
C207	1.2		BPD-0008	DD-801	L10T8	CCD-821	GP382	10TCC-V12
C208	800		EF-001	MFT-1000		CCF-102	CT280A	10TS-T80
C209	1000		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	
C210	6.8 NPO		NPO-DI 10	DTZ-10	C10V10C	CCTO-100	CNO-410	10TCC-V68
C211	10 NPO		N750-SI 22	TCN-22	C10Q22U	CCN-220	CN7-422	10TCC-Q10
C212	22 N750		EF-001	MFT-1000		CCF-102	CT280A	10TCU-Q22
C213	1000		EF-001	MFT-1000		CCF-102	CT280A	
C214	1000		EF-001	MFT-1000		CCF-102	CT280A	
C215	1000		EF-001	MFT-1000		CCF-102	CT280A	
C216	1000		EF-001	MFT-1000		CCF-102	CT280A	

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

RESISTORS

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

ITEM No.	RATING	REMARKS
R201	10K	
R202	47K	
R203	18K	

ITEM No.	RATING	REMARKS
R204	15K	
R205	10K	
R206	4700Ω	

ITEM No.	RATING	REMARKS
R207	1800Ω	
R208	470Ω	
R209	6800Ω	

ALIGNMENT INSTRUCTIONS

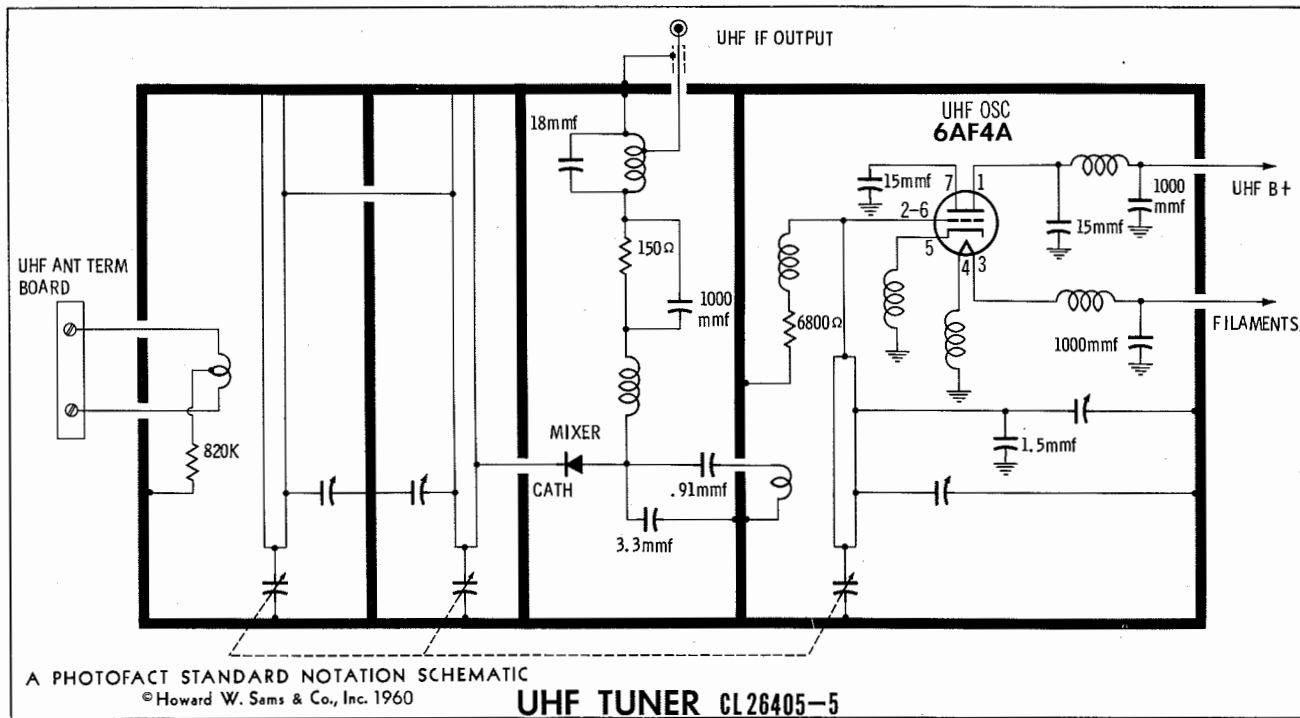
OSCILLATOR ALIGNMENT

Set the Fine Tuning to the center of its range. Set the Channel Selector to the highest high band channel operating in the area. Adjust A201 for best picture and sound. Check all other high band channels operating in the area in a descending order and if necessary, adjust the coil for that channel by bending toward or away from the wafer for best picture and sound.

Set the Channel Selector to the highest low band channel operating in the area and adjust the appropriate slug for best picture and sound. A202 is the adjustment for both channel 6 and 5. However, the slug can only be reached when the Selector is set to channel 6. Therefore, to adjust channel 5 switch to channel 6, adjust slug then switch back to channel 5 and check picture. Repeat until adjustment is satisfactory. A203 is for adjusting channels 4 and 3 and is adjusted in the same manner switching to channel 4 to adjust channel 3. A204 is for adjusting channel 2.

RF AND MIXER ALIGNMENT

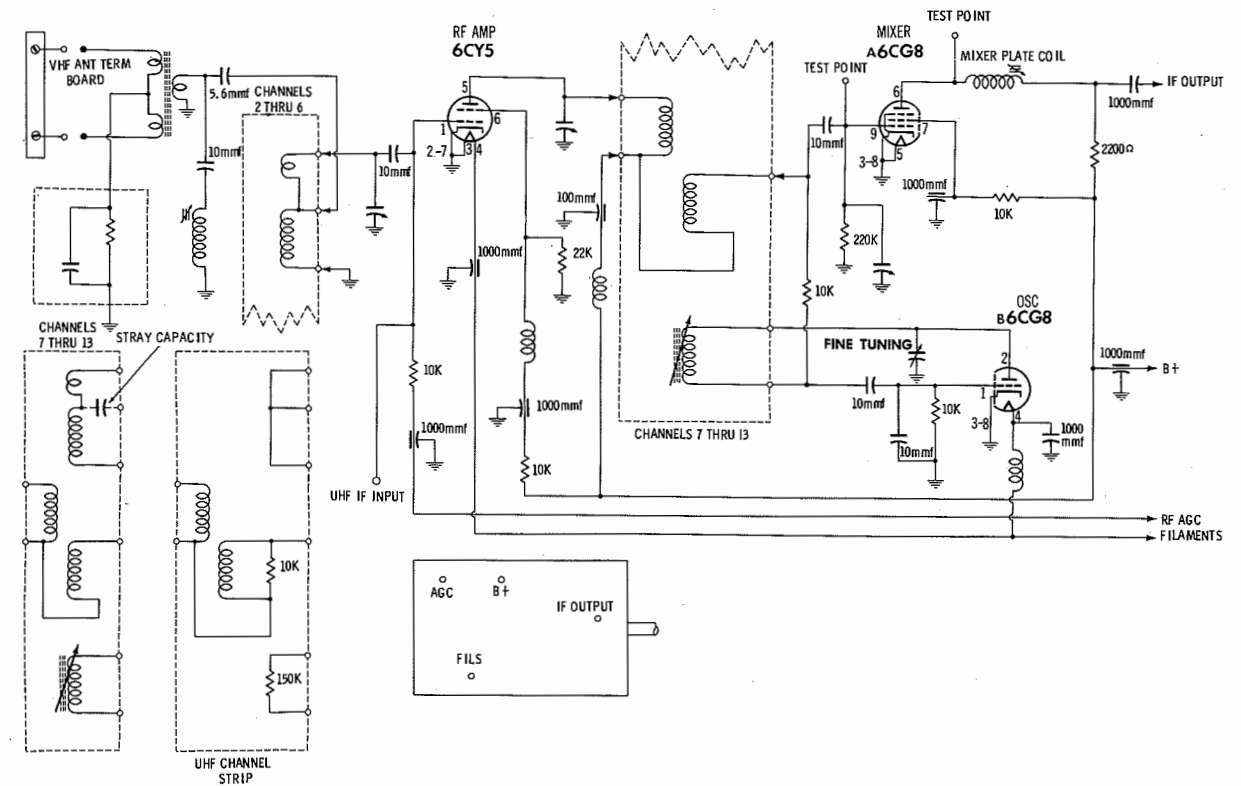
This portion of the tuner has been properly aligned at the factory and is very stable. Alignment of this portion should not be attempted in the field.



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VHF TUNER CL26440



A PHOTOFACT STANDARD NOTATION SCHEMATIC

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VHF TUNER with UHF Provisions - CL26405-4

FM- AM ALIGNMENT INSTRUCTIONS



CHASSIS 144, 146, 147, 149, 153 AM ALIGNMENT-SELECTOR IN AM POSITION

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading.						
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
	High side thru .1mf to pin 7 (grid) of AM Converter. Low side to chassis.	455KC (400% Mod)	(AM) Tuning gang fully open	Across voice coil of either speaker	A9, A10, A11, A12	Adjust for maximum output.
	Loop	1500KC	1500KC	"	A13	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
	"	"	"	"	A14	Adjust for maximum output while rocking tuning gang.


CHASSIS 144, 147, 149 FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM - SELECTOR IN FM POSITION

Connect two matched 100K (±1%) resistors in series from point  to chassis. The junction of these two resistors is alignment point  as shown on the schematic. (NOTE: For Model 144 only) Use only enough generator output to provide a usable indication on VTVM.						
SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS	
Across FM antenna terminals with 150Ω in each lead.	10.7MC (Unmod)	FM Point of non-interference	DC probe to point  . Common to chassis.	A15, A16, A17, A18, A19	Adjust for maximum deflection.	
"	"	"	DC probe to point  . Common to point  on Model 144 or to chassis on Models 147 and 149.	A20	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.	

CHASSIS 144, 147, 149 FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE - SELECTOR IN FM POSITION

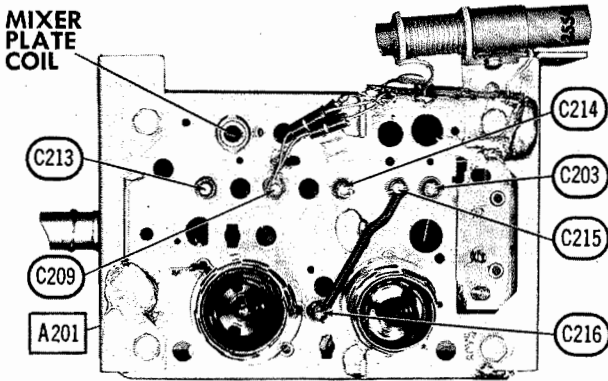
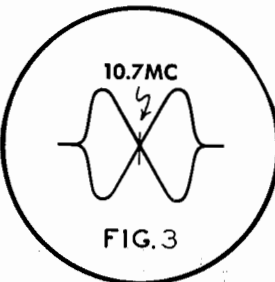
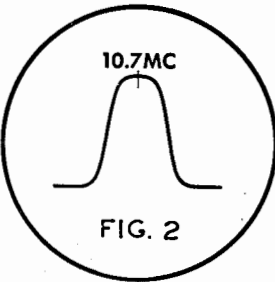
Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120v sawtooth voltage in scope for horizontal deflection. Use only enough sweep generator output to provide a usable pattern on scope.						
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
	Across FM antenna terminals with 150Ω in each lead.	10.7MC (450KC Swp)	FM Point of non-interference	Vert. Amp. to point  . Low side to chassis.	A15, A16, A17, A18, A19	Disconnect Stabilizing capacitor . Adjust for maximum gain and symmetry of response similar to Fig. 2 with markers as shown. Reconnect capacitor.
	"	"	"	Vert. Amp. to point  . Low side to chassis.	A20	Adjust to place marker at the center of crossover lines similar to Fig. 3. SLIGHTLY retouch A15 for maximum amplitude and straightness of crossover lines.

CHASSIS 144 FM RF ALIGNMENT - SELECTOR IN FM POSITION

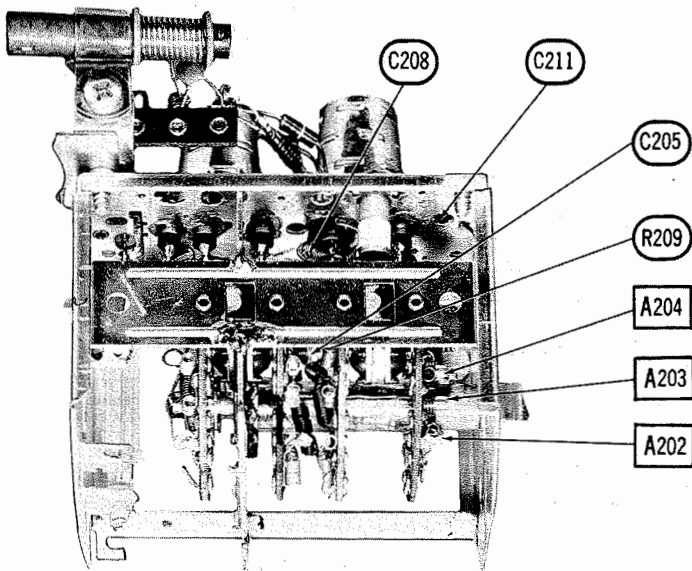
Use only enough generator output to provide a usable indication on VTVM.						
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
	Across FM antenna terminals with 150Ω in each lead.	88MC (Unmod)	FM 88MC	DC probe to point  . Common to chassis.	Osc. Coil	Adjust by compressing or expanding coil turns for maximum deflection.
	"	108MC	108MC	"	A21	Adjust for maximum deflection. Repeat steps 6 and 7.
	"	98MC	98MC	"	RF coil	Adjust by compressing or expanding coil turns for maximum deflection.
	"	"	"	"	A22, A23	Shunt primary of antenna coil with 47Ω resistor and adjust A22 for maximum deflection. Change shunt to secondary and adjust A23 for maximum deflection.

CHASSIS 147 AND 149 FM RF ALIGNMENT - SELECTOR IN FM POSITION

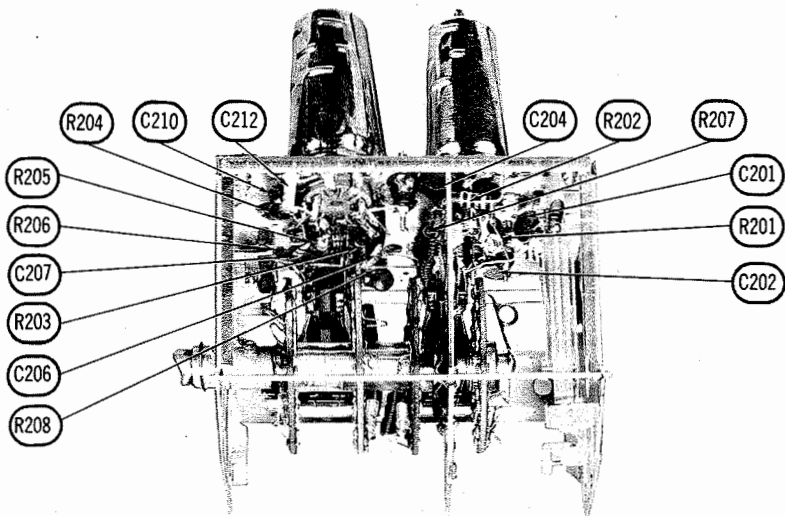
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
6.	Across FM antenna terminals with 150Ω in each lead.	88MC (Unmod)	FM 88MC	DC probe to point Ⓢ. Common to chassis.	A21	Adjust SLIGHTLY if necessary for maximum deflection. If necessary to turn more than one-half turn, try a different 6EZ8.



VHF TUNER CL26440 - TOP VIEW



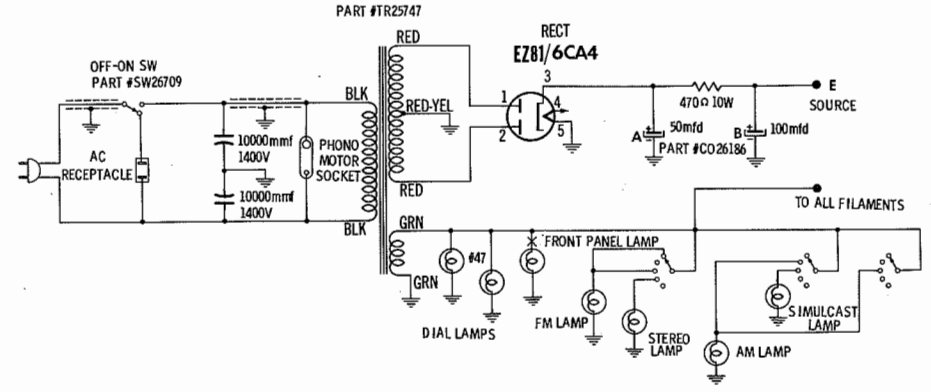
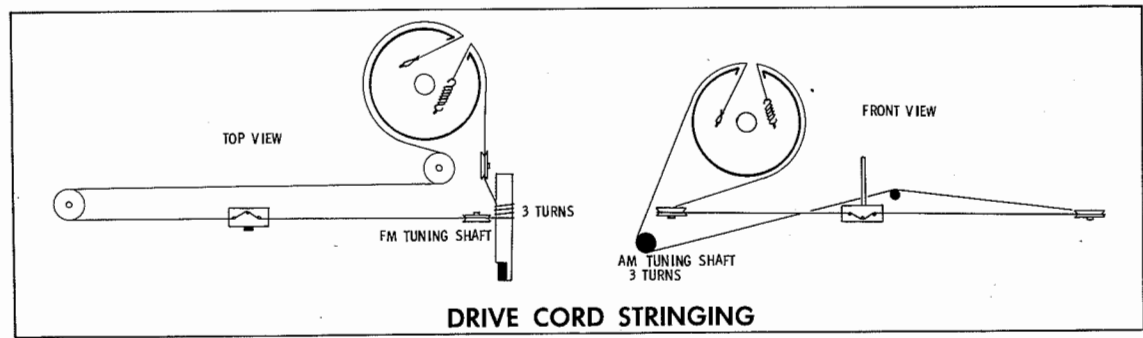
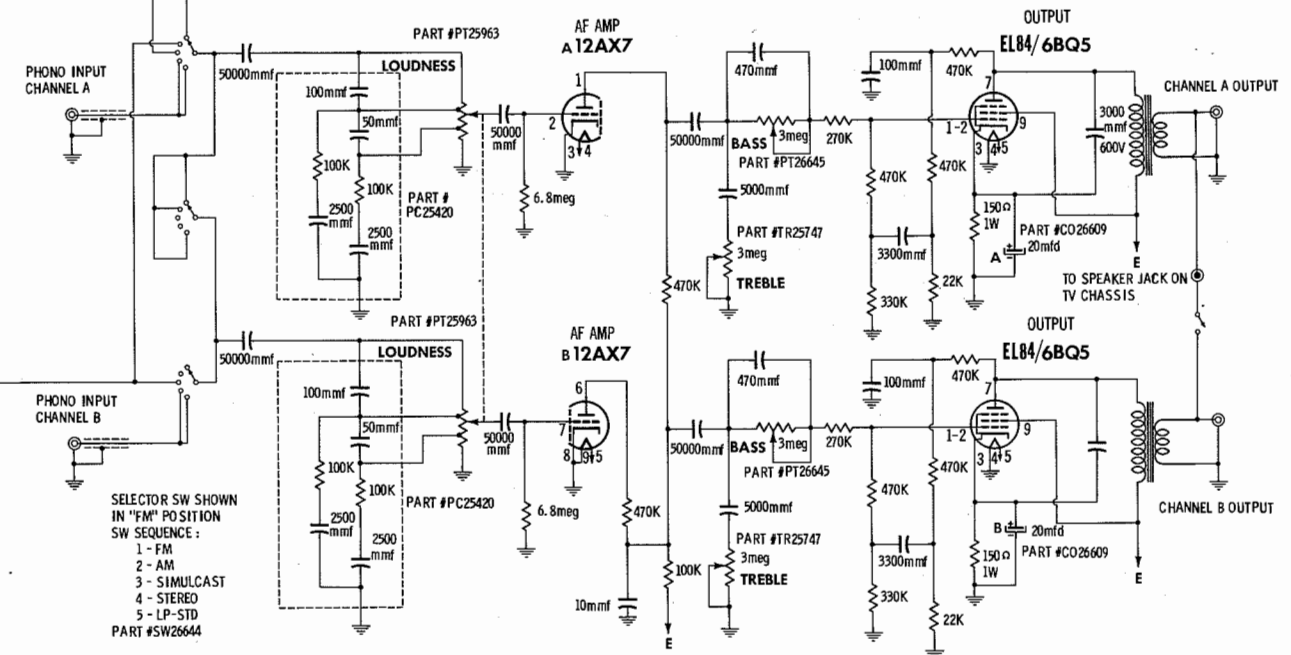
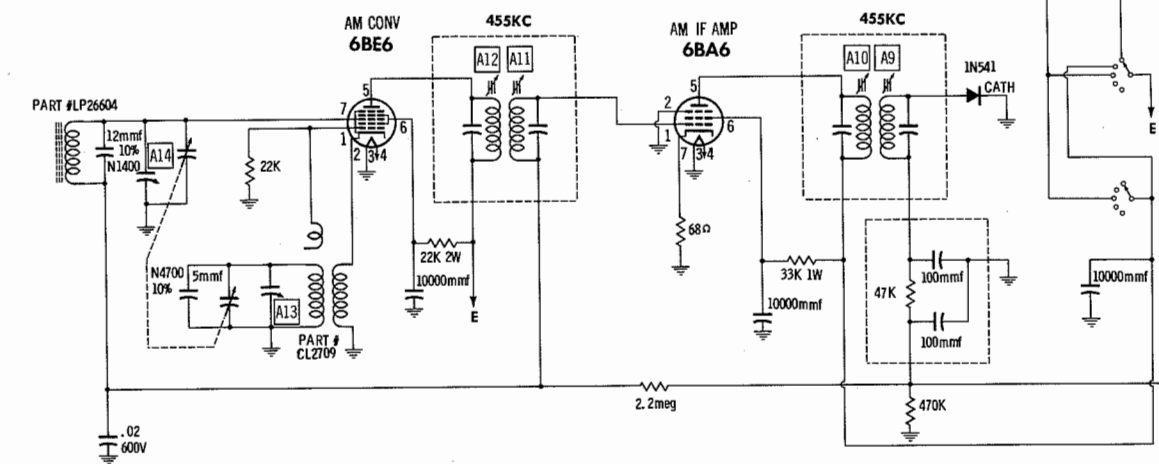
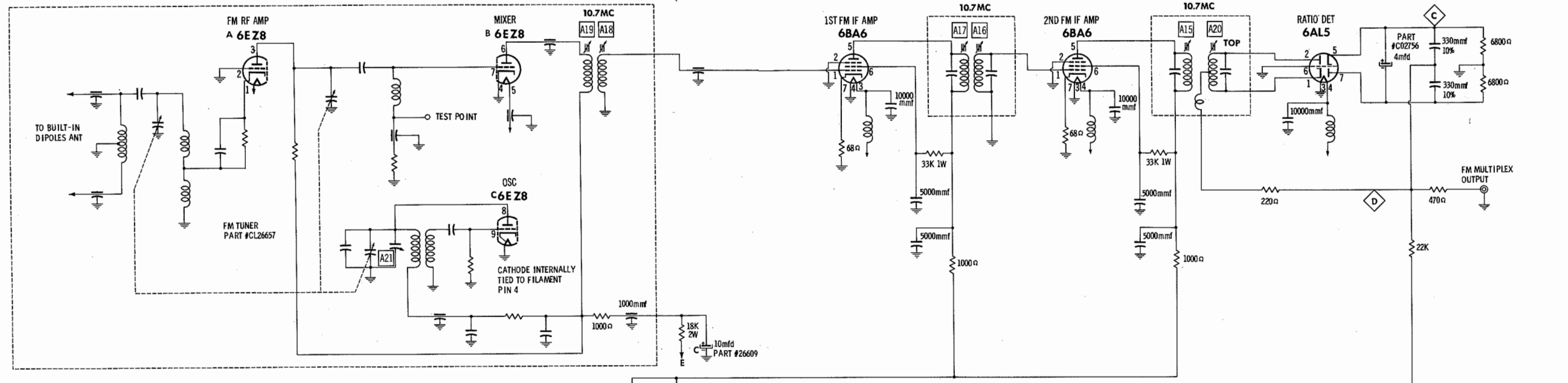
VHF TUNER CL26440 - LEFT SIDE



VHF TUNER CL26440 - RIGHT SIDE

OLYMPIC CHASSIS JB, JBU, JD, JDU, JF, JFU, JH, JHU, 144, 146, 147, 149, 153

FOLDER 1



A PHOTOFAC STANDARD NOTATION SCHEMATIC
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FM-AM RECEIVER CHASSIS 147, 149

OLYMPIC CHASSIS JB, JBU, JD, JDU, JF,
JFU, JH, JHU, 144, 146, 147, 149, 153

FOLDER 1

PARTS LIST AND DESCRIPTIONS (Continued)

CRYSTAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA				NOTES
		OLYMPIC PART No.	CBS PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
M5	1N64 *		1N60	1N60	1N64	* 1N60 Alternate

MISCELLANEOUS

ITEM No.	PART NAME	OLYMPIC PART No.	NOTES
M6	Tuner	CL26440	VHF
	Tuner	CL26405-4	VHF with UHF provisions
	Tuner	CL26405-5	UHF
M7	Switch	SW2966-1	Local-Distant (DPDT Slide Type)

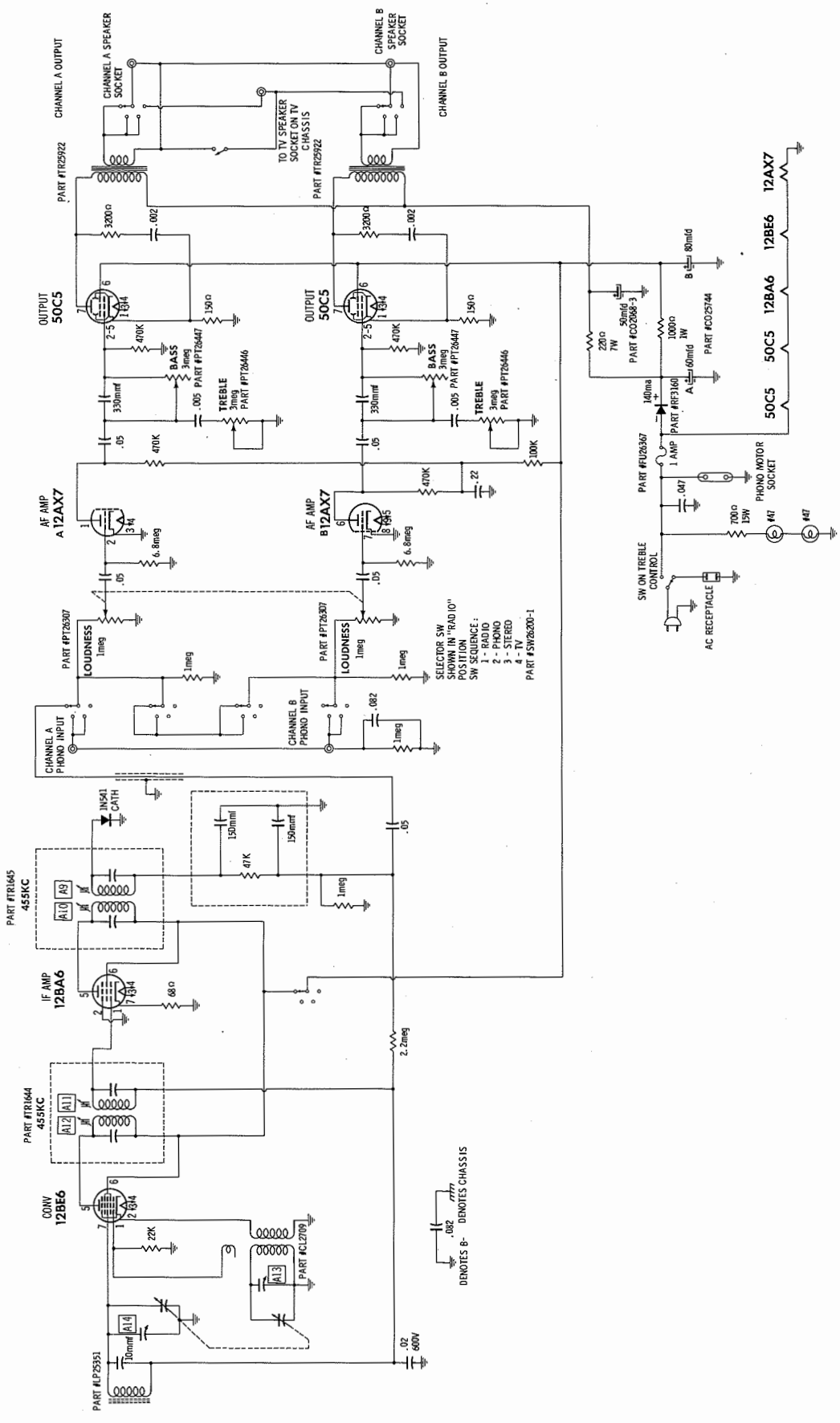
CABINETS & CABINET PARTS

(When Ordering Cabinets & Cabinet Parts, Specify Model, Chassis & Color)

NAME	PART NO.	DESCRIPTION
Safety Glass	PP3656-1	Series CB, CD, KB, KD, TB, TD
Safety Glass	PP3639-1	Series CF, KH
Mask	PP3646-2	Series CB, CD, KB, KD, TB, TD
Mask	PP3638	Series CF, KH
Knob	KN26264	Channel Selector, All Models
Knob	KN26268	UHF Channel Selector, All "U" Models
Knob	KN26671	VHF Fine Tuning, All Models
Knob	KN26265	Dial, All Models
Knob	KN26269	Calibrated Dial, All "U" Models
Knob	KN25773	Brightness, Series CD, KD, KH, TD; Contrast, All Models
Knob	KN25777	Brightness, Series CB, CF, KB, TB
Knob	KN26270	Horiz. Hold, Vert. Hold, Series CB, CF, TB
Knob	KN26271	Vert. Hold, Series, CD, KB, KD, KH, TD
Knob	KN26272	Horiz. Hold, Series, CD, KD, KH, TD
Knob	KN26273	Pull, All Models
Knob	KN26318	Loudness (Rear), Series, KB, KD, KH
Knob	KN26487	Balance, Loudness (Front) Series, KB, KD, KH
Knob	KN26485	Bass (Channel A front) Series KB, KD, KH
Knob	KN26490	Bass (Rear) Series KB, KD, KH
Knob	KN26486	Treble, Off (Channel A front) Series KB, KD, KH
Knob	KN26489	Treble (Rear), Series KB, KD, KH
Knob	KN26491	Tuning, Series KB, KD, KH
Knob	KN26493	Function Selector, Series KB, KD, KH
Cabinet	CA26449	Models CB206, U
Cabinet	CA26458	Models TB201, U
Cabinet	CA26460	Models CB207, U
Cabinet	CA26461	Models CB214, U
Cabinet	CA26462	Models CD210P, PU
Cabinet	CA26464	Models CF440, U
Cabinet	CA26465	Models CF441, U
Cabinet	CA26468	Models KD216, U
Cabinet	CA26469	Models KD218, U
Cabinet	CA26470	Models KD219, U
Cabinet	CA26472	Models KD222P, PU
Cabinet	CA26473	Models KH436, U
Cabinet	CA26522	Models CD209P, PU
Cabinet	CA26549	Models CD211D, DU
Cabinet	CA26550	Models KD223, U
Cabinet	CA26474	Model KH437, U

WIRING DATA

High Voltage Lead	Use BELDEN No. 8869
Shielded Hook-up Wire	Use BELDEN No. 8885 (Single Conductor) 8738 (Two Conductor)
General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors 8524 (Stranded) Available in Ten Colors
Power Cord (Interlock Type)	Use BELDEN No. 8874
300Ω Tuner Input Lead	Use BELDEN No. 8225
300Ω Antenna Lead-in	Use BELDEN No. 8230 or 8275
Antenna Rotor Cable	Use BELDEN No. 8464 (Flat) or 8484 (Round) - 4 Conductor 8485 (Round) - 5 Conductor 8488 (Round) - 8 Conductor



OLYMPIC CHASSIS JB, JBU, JD, JDU, JF, JFU, JH, JHU, 144, 146, 147, 149, 153
AM RECEIVER CHASSIS 146, 153

A PHOTOFACT STANDARD NOTATION SCHEMATIC
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FOLDER 1

PARTS LIST AND DESCRIPTIONS

TUBES

CBS			GENERAL ELECTRIC		RAYTHEON		SYLVANIA	
ITEM No.	USE	TYPE	ITEM No.	USE	TYPE	ITEM No.	USE	TYPE
V1	1st Video IF Amp.	6DK8	V7	Vert. Mult. -Vert. Output	6CM7			
V2	2nd Video IF Amp. - Video Output	6CU8	V8	Horiz. Mult.	6CG7			
V3	Video Amp. -Sound IF Amp.	6AW8A	V9	Horiz. Output	6DQ8			
V4	Audio Det.	8DT6	V10	Damper	6AX4GT			
V5	Audio Output	8CU5	V11	HV Rect.	1G5GT/1B3GT			
V6	Noise Inv. -Sync Sep.	12AX7	V12	LV Rect.	5U4GB			

PICTURE TUBE

REPLACEMENT DATA						NOTES
ITEM No.	OLYMPIC PART No.	GENERAL ELECTRIC PART No.	RCA PART No.	RAYTHEON PART No.	SYLVANIA PART No.	
V13	21CBP4A	21CBP4A ①	21CBP4-A ①	21CBP4/21CBP4A ①	21CBP4A ②	① Aluminized. ② "Silver Screen 65"
	24AEP4	24AEP4 ①	24AEP4 ①	24AEP4 ①	24AEP4 ②	

ELECTROLYTIC CAPACITORS

RATING			REPLACEMENT DATA						
ITEM No.	CAP.	VOLT.	OLYMPIC PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	PYRAMID PART No.	SPRAGUE PART No.	NOTES
C1A	60	350	CO25794	PR4-450	BBRT0235	WT458		TVAS-3626 *	Note 1
B	60	350			BR6025				
C	60	200							
C2	50	250	CO2088-3	PR51585	BR5025	TC59	TD-50-450	TVA-1713	
C3	10	450	CO4022-2	PR51720	BR1045	TC72	TD-10-450	TVA-1705	
C4	20	350		PR51735	BR2035	TC85	TD-20-350	TVA-1608	

* Not normally in distributor's stock. Available thru distributor on order to manufacturer.
Note 1. Not used in some versions.

FIXED CAPACITORS

Capacity values given in the rating column are in mfd. for Paper Capacitors, and in mmfd. for Mico and Ceramic Capacitors.

RATING		REMARKS	REPLACEMENT DATA						
ITEM No.			AEROVOX PART No.	CENTRALAB PART No.	CORNELL-DUBILIER PART No.	ELMENDO PART No.	MALLORY PART No.	SPRAGUE PART No.	
C5	15 NPO	#CO25834	NPO-DI 15	DTZ-15	C10Q15C	CCTO-150	CNO-415	10TCC-Q15	
C6	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C7	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C8	.47 10%		NPO-SI .47	TCZ-R5					
C9	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68	
C10	470 10%		DI-470	DD-470	SR5T47	CCD-471	GP347	10TS-T47	
C11	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C12	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C13	1000 10%		DI-1000	DD-102	PM6D1	CCD-102	GP210	5HK-D10	
C14	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C15	1000	(.22mfd) †	BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C16	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C17	18 NPO 10%		NPO-DI 20	TCZ-18	C10Q18C	CCTO-180	CNO-418	10TCC-Q18	
C18	4.7		NPO-SI 4.7	TCZ-4R7	C10V47C	CCTO-4R7	CNO-547	10TCC-V47	
C19	.47 200V		P288N-47		CUB2P47	2DP-5-474	GEM-2047	2TM-P47	
C20	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C21	.47 400V		P488N-47		CUB4P47	4DP-3-473	GEM-4047	4TM-P47	
C22	.047 400V		P488N-047		CUB4S47	4DP-3-473	GEM-4147	4TM-S47	
C23	5000		BPD-005	DD-502	BYA10D5	CCD-502	GP250	5HK-D50	
C24	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C25	1000	(.02mfd 400V) †	BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C26	1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P1	
C27	5000		BPD-005	DD-502	BYA10D5	CCD-502	GP250	5HK-D50	
C28	.22 400V		P488N-22		CUB4P22	4DP-5-224	GEM-4022	4TM-P22	
C29	33 NPO 10%		NPO-DI 33	DTZ-33	C10Q33C	CCTO-330	CNO-433	10TCC-Q33	
C30	15 NPO		NPO-DI 15	DTZ-15	C10Q15C	CCTO-150	CNO-415	10TCC-Q15	
C31	.047 400V		P488N-047		CUB4S47	4DP-3-473	GEM-4147	4TM-S47	
C32	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C33	.1 600V		P688N-1	DF-104	CUB6P1	6DP-4-104	GEM-601	6TM-P1	
C34	6.8 NPO 10%		NPO-DI 6.8	DTZ-6R8	C10V68C	CCTO-6R8	CNO-568	10TCC-V68	
C35	330 10%	(.02mfd 400V) †	DI-330	DD-331	LIOT33	CCD-331	GP333	10TS-T33	
C36	1000		BPD-001	DD-102	BYA10D1	CCD-102	GP210	5HK-D10	
C37	5000		BPD-005	DD-502	BYA10D5	CCD-502	GP250	5HK-D50	
C38	5 N750 10%		DTN-5	DTN-5	C10V5U	CCTN-050	CNO-550	10TCC-V50	
C39	5000		BPD-005	DD-502	BYA10D5	CCD-502	GP250	5HK-D50	
C40	10000		BPD-01	DD-103	BYA10S1	CCD-103	GP110	5HK-S10	
C41	.05 50V		P288N-05	DDA-503	CUB2S5	1DP-2-503	GEM-415	2TM-S5	
C42	6000		BPD-005	DD-502	BYA10D5	CCD-502	GP250	5HK-D50	
C43	5000		BPD-005	DD-502	BYA10D5	CCD-502	GP250	5HK-D50	
C44	.0047 600V		P688N-0047		CUB6D47	6DP-1-472	GEM-6247	6TM-D47	
C45	.047 400V	#CT3526	P488N-047		CUB4S47	4DP-3-473	GEM-4147	4TM-S47	
C46	2000		BPD-002	DD-202	BYA10D2	CCD-202	GP220	5HK-D20	
C47	470		BPD-00047	DD-472	BYA10D7	CCD-471	GP347	10TS-T47	
C48	.15 400V		P488N-15		CUB4P15	4DP-4-154	GEM-4015	4TM-P15	
C49	.0047 600V 10%		V84C8D47-10%		PM6D47	6DP-1-472	GEM-16247	6TM-D47	
C50	.0047 600V 10%		V84C8D47-10%		PM6D47	6DP-1-472	GEM-16247	6TM-D47	
C51	.01 1600V		P1684CM-01	DD16-103	CUB16S1	16DP-3-103	GEM-1611	MB-S1	
C52	10000		BPD-01	DD-103	BYA10S1	CCD-103	GP110	5HK-S10	
C53	.035 600V		P688N-033		CUB6S33	6DP-3-333	GEM-6133	6TM-S33	
C54	.1 400V		P488N-1	DF-104	CUB4P1	4DP-3-104	GEM-401	4TM-P1	
C55	.15 400V	#CO3781 #CO4520	P488N-15		CUB4P15	4DP-4-154	GEM-4015	4TM-P15	
C56	470 10%		DI-470	DD-471	SR5T47	CCD-471	GP347	10TS-T47	
C57	.1 200V		P288N-1	DF-104	CUB2P1	2DP-3-104	GEM-201	2TM-P1	
C58	3900 10%		1484-0039		IR5D39	CM-2039-392K	MCJ482.5	MS-239	
C59	.1 600V		P688N-1	DF-104	CUB6P1	6DP-3-104	GEM-601	6TM-P1	
C60	.001 600V 10%		V84C8D1-10%	DD-102	PM6D1	6DP-1-102	GEM-1621	6TM-D1	
C61	10-580					487			
C62	.047 400V		P488N-047	DD-503	CUB4S47	4DP-3-473	GEM-4147	4TM-S47	
C63	.1 400V		P488N-1	DD-103	CUB4P1	4DP-3-104	GEM-401	4TM-P1	
C64	10000		BPD-01	DD-103	BYA10S1	CCD-103	GP110	5HK-S10	
C65	100 3000V 10%	#CT3526							
C66	68 3000V 10%								
C67	.01 600V		P688N-01	D6-103	CUB6S1	6DP-2-103	GEM-611	6TM-S1	

† Alternate value.

Olympic Part No.

CONTROLS

RATING			REPLACEMENT DATA					INSTALLATION NOTES
ITEM No.	RESIST-ANCE	WATTS	OLYMPIC PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS -IRC PART No.	MALLORY PART No.	
R1A	15K	1/2	PT26558		RTV-697	QJ-1328	UE4111-S	Picture (Contrast)
B	1meg							Volume
C	Switch							Push-Pull Off-On
R2A	1meg	1/2	PT5702	B-69	A47-1meg-S	Q11-137	U54	Brightness, Note 1
B	1meg			Not Req.	KSS-3	Not Req.	Not Req.	
R2A	1meg	1/2	PT25736		RTV-679		UE-1698-S	Brightness, Note 2
B	500K							3D Switch
C	Switch							Vert. Hold
R3A	2meg	1/2	PT26438	B-75	A47-2meg-S	Q11-139	U56	
B	1meg			Not Req.	KSS-3	Not Req.	Not Req.	
R4A	1meg	1/2	PT26439	B-69	A47-1meg-S	Q11-137	U54	Horiz. Hold
B	1meg			Not Req.	KSS-3	Not Req.	Not Req.	
R5A	500K	1/2	PT25790	B-59	B47-500K-S	BL1-133	PTA55L	Vert. Lin.
B	500K			Not Req.	Not Req.	TM4	Not Req.	
R6A	2.5meg	1/2	PT5008-1	AB-83	B47-2.5meg-S	BL1-239	TA255L	Height
B	500K			AK-1	Not Req.	TM4	Not Req.	
R7A	500K	1/2	PT26132	AB-4	B47-500K-S	BL1-103	U2	Picture Power
B	500K			AK-1	Not Req.	TM4	Not Req.	

■ "STA-LOC" Equivalent: FAI53L, RUP16A, OSI500A

Note 2. Used in Ch. JD, JDU, JH, JHU.

Note 1. Used in Ch. JB, JBU, JF, JFU.

† "Concentrifig" Equivalent: K-16 Kit with Base Elements & Shafts: BL1-118, P13-116 (Panel) (Not available as a factory assembled unit.)

RESISTORS

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

ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS	ITEM No.	RATING	REMARKS
R8	470Ω		R35	100K		R62	1meg	
R9	470Ω		R36	150K		R63	470K	
R10	180Ω		R37	220K		R64	10meg	
R11	180Ω		R38	100K		R65	150K	
R12	1000Ω		R39	22K		R66	1000Ω 2W	
R13	1meg		R40	47K		R67	100Ω	
R14	5600Ω		R41	270K		R68	560Ω	
R15	10Ω		R42	150K		R69	580Ω	
R16	10Ω		R43	580K		R70	330K 1W	
R17	22K		R44	10K		R71	330K 1W	
R18	330Ω		R45	560Ω		R72	8800Ω 1W	
R19	47Ω		R46	1meg		R73	820Ω	
R20	22K		R47	390Ω 2W		R74	470K	
R21	330Ω		R48	1meg		R75	820K	
R22	180Ω		R49	220K		R76	3300Ω	
R23	3900Ω		R50	10meg		R77	47Ω	
R24	1.5meg		R51	330K		R78	22K	
R25	1meg		R52	100K		R79	8900Ω 4W	
R26	22K		R53	2.2meg		R80	15Ω	
R27	100Ω		R54	470K		R81	4700Ω	
R28	8900Ω		R55	100K		R82	3.3Ω	
R29	470Ω		R56	27K		R83	47K 1W	
R30	10K		R57	1.5meg		R84	100K	
R31	150K		R58	1.5meg		R85	150K	
R32	5600Ω 2W		R59	1.5meg		R86	330Ω	
R33	100Ω		R60	12K		R87	4700Ω 4W	
R34	2200Ω		R61	150Ω		R88	470K	

Note 1. Not used in some versions.
* Alternate value.

Olympic Part No.

COMPONENT