

PARTS LIST AND DESCRIPTIONS (Continued)

COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA					NOTES
		OLYMPIC PART No.	Merit PART No.	Miller PART No.	Stancor PART No.	Workman TV PART No.	
L1	Loopstick	LP28604	BC-419	705-A	RTC-8815	7632	* Connect 2 Crystals Externally.
L2	AM Osc.	CL27155	BC-393	69-OSC	RTC-8846	T503	
L3	2nd FM IF	TR26714	FM-254	1463	RTC-8899	T833	
L4	1st AM IF	TR28017	BC-352	12-C1	RTC-8832	T807	
L5	Radio Detector	TR26982	FM-255*	1465*	RTC-8800*	T835*	
L6	2nd AM IF	TR28017	BC-353	12-C2	RTC-8833	T808	

TRANSFORMER (POWER)

ITEM No.	RATING			REPLACEMENT DATA				NOTES
				OLYMPIC PART No.	Merit PART No.	Slancor PART No.	Thorndson PART No.	
	PRI.	SEC. 1	SEC. 2					
T1	117V @ .76A	500VCT @.120A	8.3V @4.7A	TR25747				

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	IMPEDANCE		REPLACEMENT DATA					NOTES
			OLYMPIC PART No.	Merit PART No.	Stancor PART No.	Thorndson PART No.	Triod PART No.	
	PRI.	SEC.						
T2	5100Ω	6-8Ω	TR25922	A-2902	A-3849	24584		S-54X
T3	5100Ω	6-8Ω	TR25922	A-2902	A-3849	24584		S-54X

SPEAKER

ITEM No.	TYPE			REPLACEMENT DATA		NOTES
	SIZE	FIELD	V. C. IMP.	OLYMPIC	QUAM	
				PART No.	PART No.	
SP1	8"	PM	3-4Q	SK1906	8A31	
SP2	3 1/2"	PM	3-4Q	SK28301	3A15T24	
SP3	8"	PM	3-4Q	SK1906	8A31	
SP4	3 1/2"	PM	3-4Q	SK28301	3A15T24	

PHONO CARTRIDGE & NEEDLES

ITEM No.	REPLACEMENT DATA	ASTATIC		ELECTRO-VOICE		NOTES
		OLYMPIC PART No.	NEEDLE*	OLYMPIC PART No.	NEEDLE*	
	CARTRIDGE	CARTRIDGE	CARTRIDGE	CARTRIDGE	CARTRIDGE	
M1		76TBB	121	3002*	8TA4-S	N-6TA-8*
				(78RPM)		
				2420*		
				(LP)		

SIGNAL DIODES

ITEM No.	ORIG. TYPE	REPLACEMENT DATA		NOTES
		OLYMPIC PART No.	RAYTHEON PART No.	
		GENERAL ELECTRIC PART No.		
M2	1N636		1N636	AM Detector

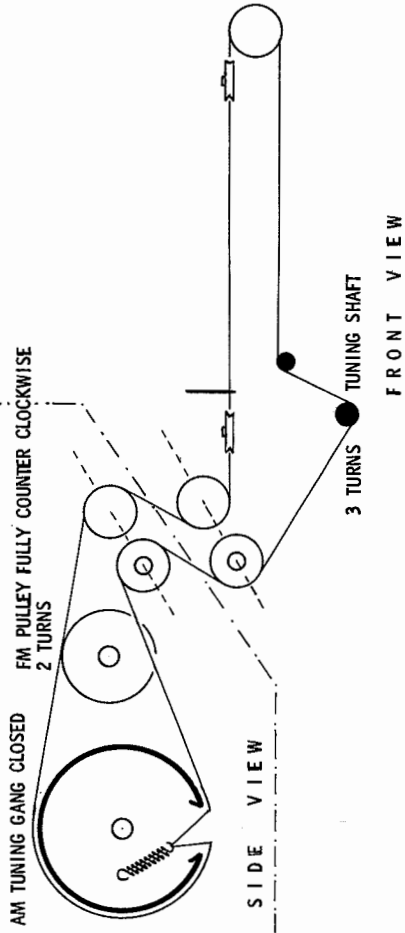
MISCELLANEOUS

ITEM No.	PART NAME	OLYMPIC PART No.	NOTES
M3	FM Tuner	CL27137 (or) CL28055	Complete
M4	Tuning Cap.	CY28977	2 Gang (Art. 24-540mmf, Osc. 21-187mmf)
M5	Switch	SW27128	Function Selector (Pushy Slide Type)
M6	Switch	SW27143-44	Master (Turnover Slide Type)
M7	Switch	SW27143-45	3D (Gray) (Slide Type)
M8	Switch	SW27143-46	Remote (Pushy Slide Type)
M9	Switch	SW27143-47	Chorus (Pushy Slide Type)
M10	Switch	SW27143-48	Power Off-On (Pushy Slide Type)
		SW27143-49	Power Off-On (Pushy Slide Type)
		SW27143-50	Power Off-On (Pushy Slide Type)

WIRING DATA

General-use Unshielded Hook-up Wire	Use BELDEN No. 8530 (Solid) Available in Ten Colors
Power Cord	8584 (Stranded) Available in Ten Colors
Low-Loss Shielded Lead (Interconnecting)	Use BELDEN No. 1785-B (6 Ft. Length)
Phono Pick-up Arm Cable	Use BELDEN No. 1785-K (7 1/2 Ft. Length)
	Use BELDEN No. 8401
	Use BELDEN No. 8430 (Two Conductor - Twisted)

DIAL CORD STRINGING



FOLDER 11
SET 572

PHOTOFACT® Folder

with CIRCUITRACE®

OLYMPIC MODELS 8590, 8591,
8592, 8593, 8594, 8595 (Ch. 159)

OLYMPIC MODELS 8590, 8591,
8592, 8593, 8594, 8595 (Ch. 159)



MODEL 8590

TRADE NAME	Olympic Models 8590, 8591, 8592, 8593, 8594, 8595 (CH. 159)		
MANUFACTURER	Olympic, A Div. of The Siegler Corp., 34-01 38th Ave., Long Island City 1, N. Y.		
TYPE SET	AC Operated 7 Tube FM-AM Receiver With Stereo Amplifier and 4 Speed Automatic Record Changer		
POWER SUPPLY	105 - 120 Volts AC	RATING	82 Watts, .76 Amp. @117 Volts AC (Less Motor)
TUNING RANGE-BROADCAST	535 - 1700KC	FREQ. MOD.	88 - 108MC

FOR SERVICE INFORMATION ON RECORD CHANGER - SEE SIMILAR B.S.R. UA-12 - PHOTOFACT SET 465 FOLDER 6



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

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ITEM No.	RATING	REMARKS	REPLACEMENT DATA					
			AEROVOX PART No.	CENTRALAB PART No.	CORNEILL DUBILIER PART No.	ELENCO PART No.	MAILORY PART No.	SPRAGUE PART No.
C47	.01 600V		P688N-01	DE-103	CUBESI	6DP-2-103	GEM-611	6TM-S10
C48	.01 600V		P688N-01	DE-103	CUBESI	6DP-2-103	GEM-611	6TM-S10

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

ITEM No.	USE	RESIST-ANCE	REPLACEMENT DATA					MALLORY PART No.
			OLYMPIC PART No.	CENTRALAB PART No.	CLAROSTAT PART No.	CTS - IRC PART No.		
R1A	Loudness, Ch. B	1meg①	PT27120	BT-167, STR-167, or (ABT-167, STR-167, AK-11)				
R2	Loudness, Ch. A	1meg①		B-59, or				
R3A	Balance	500K	PT27112	(AB-59, AK-11)	A47-500K-S/	QU-133, or (BU1	U50	
R3B	Treble, Channel B	3meg	PT27111	B-85, SR-85, or (AB-85, SR-85, AK-11)	K5S-3	CF16, SS1, DC1)		FA36A, R036A, CS3500
R4A	Treble, Channel A	3meg						
R4B	Bass, Channel B	3meg	PT27110					
R4C	Bass, Channel A	3meg						

ITEM No.	RATING	REMARKS	AEROVOX PART No.	CENTRALAB PART No.	COMBUSTION DUBINETS	ELEMENTO PART No.	MALLORY PART No.	SPRAGUE PART No.
C4	4, 7, 5% N750		N750-SI 4, 7	TCN-5	C10V5U	CCTN-080	CNO-547	10TCU-V50
C5	.001		RFD-001	DD-02	LYA00D1	CDD-102	GP210	5HK-D10
C6	3, 5		NPO-SI 3, 3	TC 2-3R3	C10V33C	CCTO-3R3	CNO-533	10TS-V33
C7	.001		RFD-001	DD-02	LYA00D1	CDD-102	GP210	5HK-Q10
C8	17		SI 18	D8-180	L10Q18	CDD-180	GP418	10TS-Q18
C9	.002		SI 2000	D8-202	LYA00D2	CDD-202	GP220	5HK-D20
C10	14		SI 15	D8-150	L10Q15	CDD-150	GP415	10TS-Q15
C11	3		NPO-SI 3, 3	TC2-3R3	C10V3C	CCTO-3R3	CNO-533	10TCC-V33
C12	18		SI 18	D8-180	L10Q18	CDD-180	GP418	10TS-Q18
C13	15		SI 15	D8-150	L10Q15	CDD-150	GP415	10TS-Q15
C14	.001		RFD-001	DD-02	LYA00D1	CDD-102	GP210	5HK-D10
C15	.001		RFD-001	DD-02	LYA00D1	CDD-102	GP210	5HK-D10
C16	.001		RFD-001	DD-02	LYA00D1	CDD-102	GP210	5HK-D10
C17	.01	Note 1	DL-470	DD-103	LYA10S1	CDD-103	GP110	10TS-T47
C18	470		DL-470	DD-470	LYA10T47	CDD-471	GP347	
C19	4, 7, 10% N4700							
C20	.01		RFD-01	DD-103	LYA10S1	CDD-103	GP110	5HK-S10
C21	.005		RFD-005	DD-502	LYA10D5	CDD-502	GP250	5HK-D50
C22	.01		RFD-01	DD-103	LYA10S1	CDD-103	GP110	5HK-S10
C23	.005		RFD-005	DD-502	LYA10D5	CDD-502	GP250	5HK-D50
C24	.005		RFD-005	DD-502	LYA10D5	CDD-502	GP250	5HK-D50
C25	.01		RFD-01	DD-103	LYA10S1	CDD-103	GP110	5HK-S10
C26	330		DI-330	DD-331	L10T33	CDD-331	GP333	10TS-T33
C27	330		DI-330	DD-331	L10T33	CDD-331	GP333	10TS-T33
C28	2, 400V		P488N-02	DD-203	C10B4S2	4DP-2-203	GEM-412	4TM-S20
C29	.05 50V		P288N-05	DD-503	C10B5S5	IDP-2-503	GEM-415	2TM-S50
C30	220 10V	Note 1	P288N-06	DD-503	C10B5S5	IDP-2-503	GEM-415	2TM-S50
C31	330 10V		DI-330	DD-221	L10T22	CDD-221	GP322	10TS-T22
C32	470		DI-470	DD-471	L10T47	CDD-471	GP347	10TS-T47
C33	.05 50V		P288N-05	DD-503	C10B5S5	IDP-2-503	GEM-415	2TM-S50
C34	.05 50V		P288N-05	DD-503	C10B5S5	IDP-2-503	GEM-415	2TM-S50
C35	.047 400V		P488N-047	DD-503	C10B4S5	4DP-3-473	GEM-415	4TM-S47
C36	220 10V	(330) ↑	DI-220	DD-221	L10T22	CDD-221	GP322	10TS-T22
C37	.005	(.0033) ↑	RFD-005	DD-502	LYA10D5	CDD-502	GP250	5HK-D50
C38	.01	(.0068) ↑	RFD-01	DD-103	LYA10S1	CDD-103	GP110	5HK-S10
C39	.0033 600V		P688N-0033	DD-332	C10B8D33	6DP-1-332	GEM-6233	6TM-D33
C40	.05 50V		P288N-05	DD-503	C10B5S5	IDP-2-503	GEM-415	2TM-S50
C41	.047 400V		P488N-047	DD-503	C10B4S5	4DP-3-473	GEM-6233	4TM-S47
C42	220 10V	(330) ↑	DI-220	DD-221	L10T22	CDD-221	GP322	10TS-T22
C43	.005	(.0033) ↑	RFD-005	DD-502	LYA10D5	CDD-502	GP250	5HK-D50
C44	.01	(.0068) ↑	RFD-01	DD-103	LYA10S1	CDD-103	GP110	5HK-S10
C45	.0033 600V	(.0068) ↑	P688N-0033	DD-332	C10B8D33	6DP-1-332	GEM-6233	6TM-D33
C46	.02 400V		P488N-02	DD-203	C10B4S2	4DP-2-203	GEM-412	4TM-S20

REPLACEMENT DATA			REPLACEMENT DATA						
ITEM No.	RATING	IRC PART No.	WORKMAN PART No.	REMARKS	ITEM No.	RATING	IRC PART No.	WORKMAN PART No.	REMARKS
R5	100K				R23	68K			
R6	1000Ω				R24	1000Ω			
R7	150Ω				R25	5000Ω			
R8	470K				R26	500Ω			
R9	4300Ω				R27	6800Ω			
R10	1000Ω				R28	6.8meg			
R11	6.8meg				R29	470K			
R12	8900Ω 4W				R30	100K			
R13	22K				R31	470K			
R14	4700Ω 1W				R32	150Ω 1W			
R15	1meg				R33	6.8meg			
R16	2.2meg				R34	470K			
R17	1000Ω				R35	470K			
R18	47K				R36	150Ω 1W			
R19	33K 1W				R37	6800Ω 2W			
R20	68Ω				R38	400Ω 10W			
R21	470K				R39	22Ω			
R22	68Ω				R40	22Ω			

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



ITEM No.	USE	DESCRIPTION	OLYMPIC PART No.	REPLACEMENT DATA
K1	Diode R.F. Filter	150mmf, 150mmf, 47K	PC2478-1	Aerovox Centralab PC-31 D-2
K2	Tone Compensation	80mmf, 100mmf, 3500mmf, 2500mmf, 100K, 100K	PC25420	Aerovox Centralab PC-325 PC-83
K3	Tone Compensation	80mmf, 100mmf, 3500mmf, 2500mmf, 100K, 100K	PC25420	Aerovox Centralab PC-325 PC-83 Sprague

ALIGNMENT INSTRUCTIONS

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT	
Use only enough generator output to provide a usable indication.	
Suggested Alignment Tools:	
A1 thru A4, A8, A9.....	GENERAL CEMENT #5097, 8727
	WALSCO #2515
A5, A6, A13.....	GENERAL CEMENT #5004, 5008, 5009
	WALSCO #2520
A7, A12.....	GENERAL CEMENT #8282, 8606, 8606-L, 9295, 9440
	WALSCO #2526, 2543, 2544, 2545
A10, A11.....	GENERAL CEMENT #8282, 8606, 8606-L, 9091
	WALSCO #2526, 2541, 2542, 2543, 2544

AM ALIGNMENT — SELECTOR IN AM POSITION						
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
	High side thru .1mfd to pin 2 (grid) of AM Mixer. Low side to chassis.	455KC (400% 30% AM)	(AM) Tuning gang fully open.	Across voice coil.	A1, A2, A3, A4	Adjust for maximum output.
	Loop.	1500KC	1500KC	"	A5, A6	Fashion loop of several turns of wire and radiate signal into loop of receiver.

FM IF ALIGNMENT USING AM SIGNAL GENERATOR AND VTVM — SELECTOR IN FM POSITION						
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
	Place a thin insulated metal strip between the FM Converter tube and tube shield. Connect high side of generator to the metal strip. Low side to chassis.	10.7MC (Unmod.)	(FM) Point of non-interference.	DC probe to point A7, A8, A9, A10, A11 Ⓐ . Common to chassis.		Adjust for maximum deflection.
	"	"	"	DC probe to point B Ⓑ . Common to chassis.	A12	Adjust for zero reading. A positive and negative reading will be obtained on either side of the correct setting.

FM IF ALIGNMENT USING FM SIGNAL GENERATOR AND OSCILLOSCOPE — SELECTOR IN FM POSITION					
Use frequency modulated signal with 60% modulation and 450KC sweep. Use 120% sawtooth voltage in scope for horizontal deflection.					
SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT SCOPE	ADJUST	REMARKS
Place a thin insulated metal strip between the FM Converter tube and tube shield. Connect high side of generator to metal strip. Low side to chassis.	10.7MC (450KC Swp)	(FM) Point of non-interference.	Vert. amp. to point  . Low side to chassis.	A7, A8, A9, A10, All	Disconnect stabilizing capacitor C3. Adjust for maximum gain and symmetry of response similar to Fig. 1 with markers as shown. Reconnect C3.
"	"	"	Vert. amp. to point  . Low side to chassis.	A12	Adjust to place marker at the center of crossover lines similar to Fig. 2. SLIGHTLY retouch A7 for maximum amplitude and straightness of crossover lines.

FM RF ALIGNMENT — SELECTOR IN FM POSITION						
	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	CONNECT VTVM	ADJUST	REMARKS
	Across FM antenna terminals with 150Ω in each lead.	100MC (Unmod.)	(FM) 100MC	DC probe to point A. Common to chassis.	A13, A14	Adjust for maximum deflection. (A14 not used in some versions).

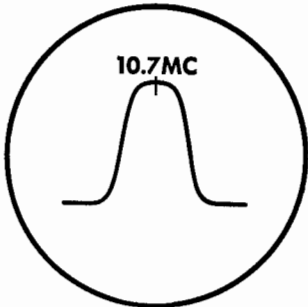


FIG. 1

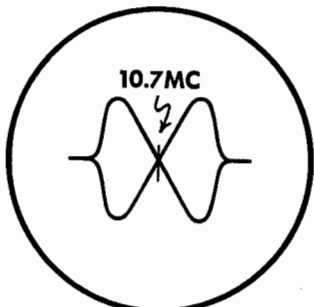
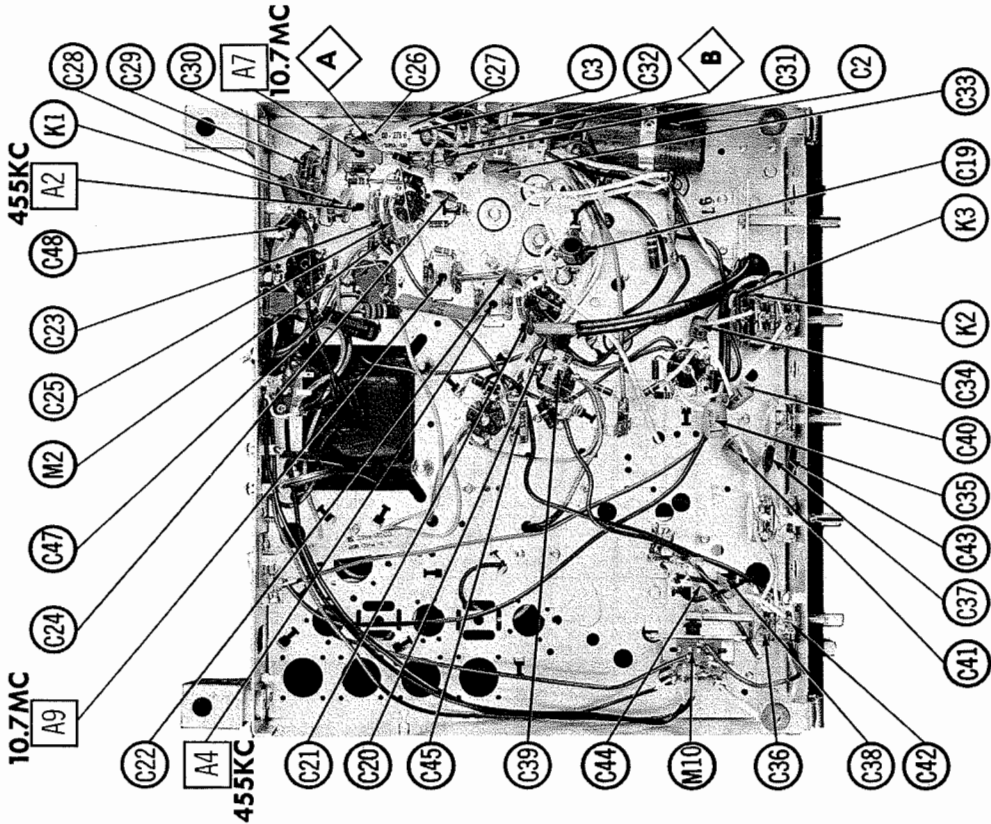
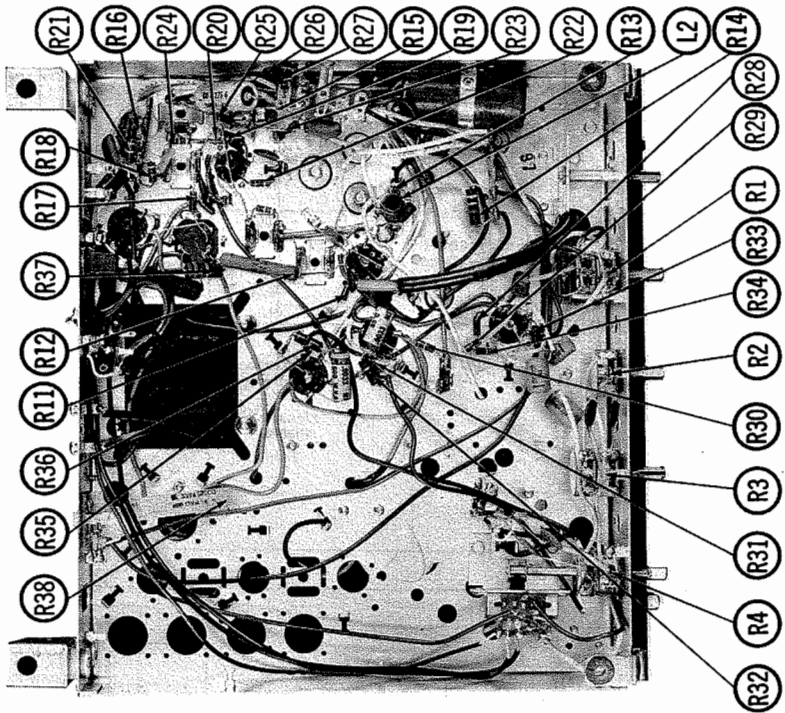


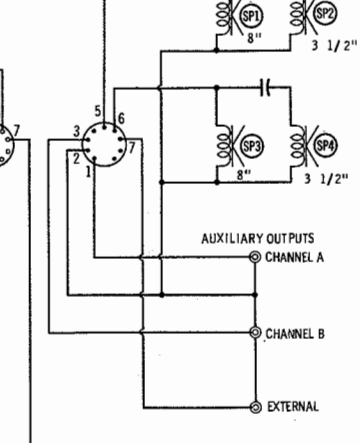
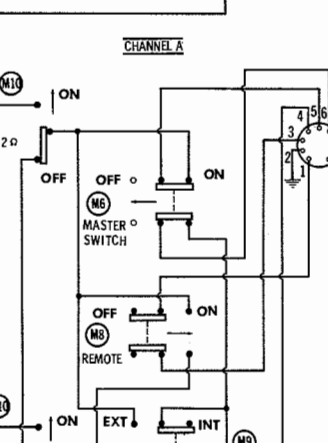
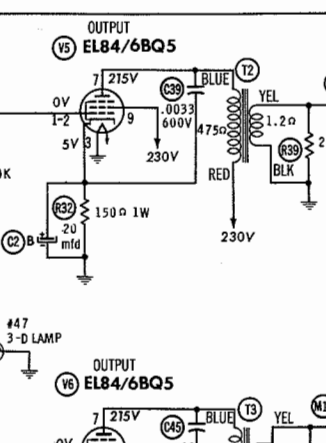
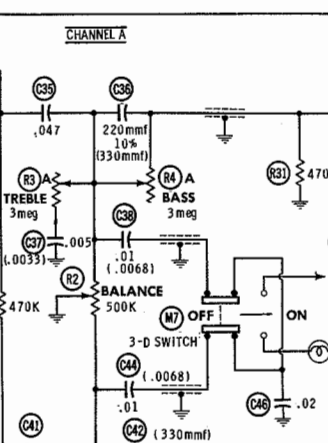
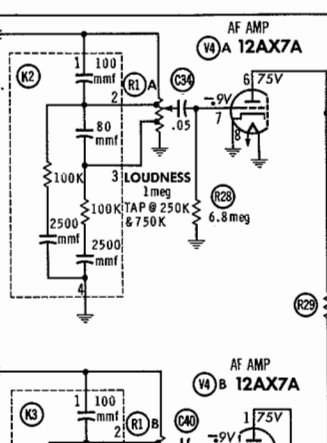
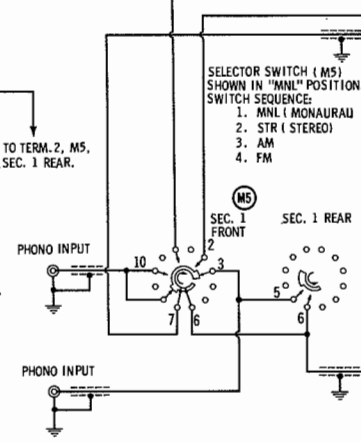
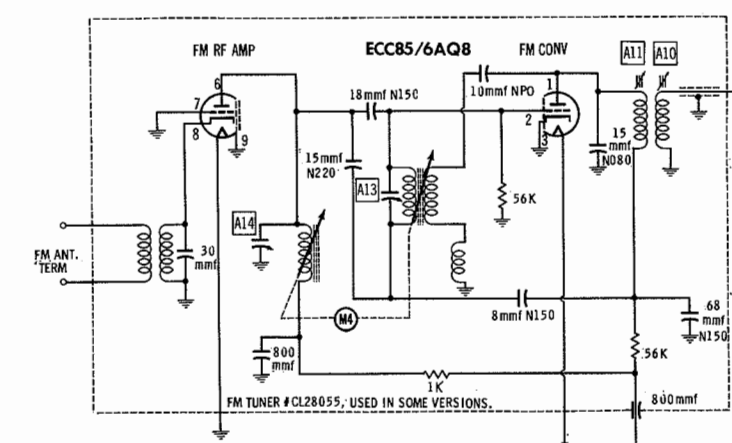
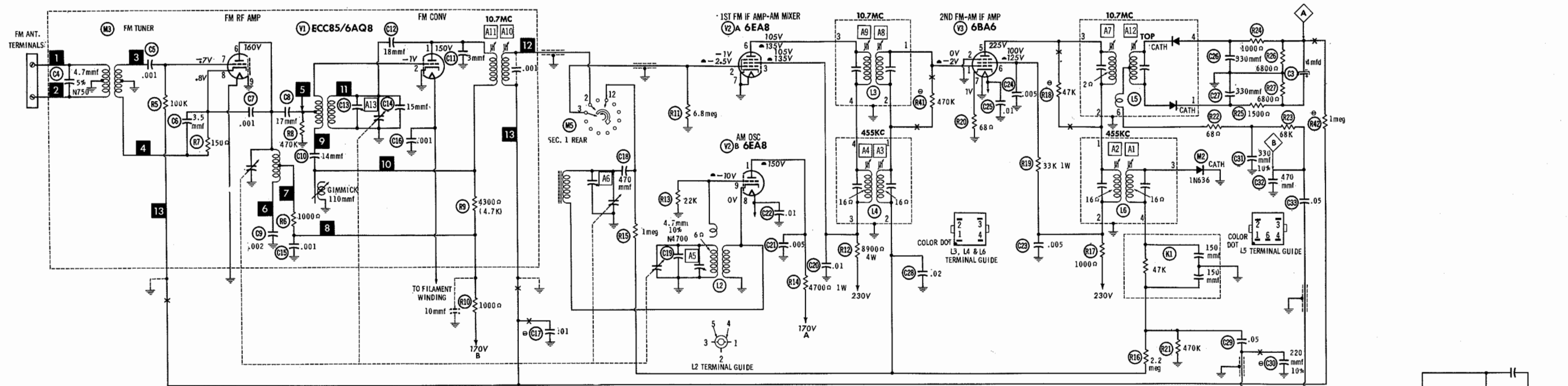
FIG. 2

OLYMPIC MODELS 8590, 8591, 8592, 8593, 8594, 8595 (Ch. 159)

FOLDER 11



CHASSIS-BOTTOM VIEW



SELECTOR SWITCH (M5) MOVES 2 POSITIONS FOR EACH DETENT.

RESISTANCE READINGS

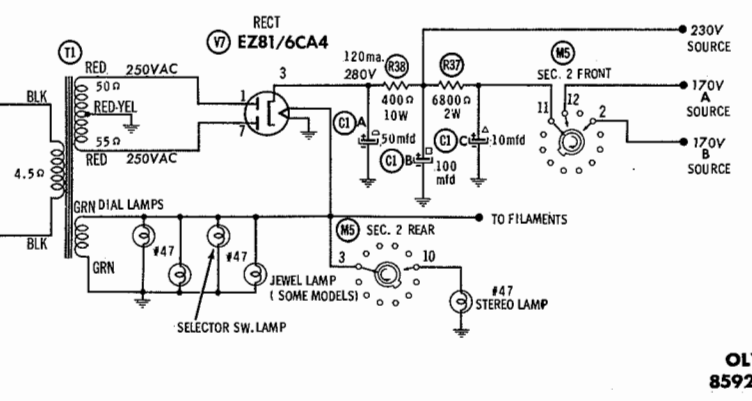
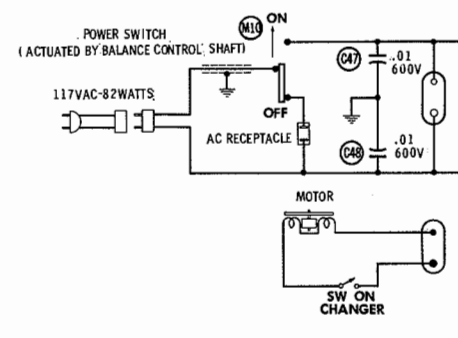
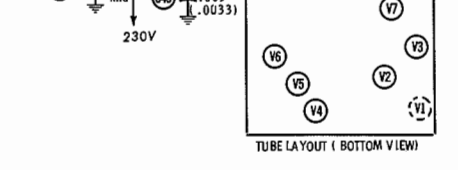
ITEM	TUBE	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8	Pin 9
V1	ECC85/6AQ8	+11K	470K	0Ω	FIL	FIL	18200Ω	1meg	150Ω	0Ω
V2	6EA8	+112K	1meg	+19300Ω	FIL	FIL	19300Ω	0Ω	.4Ω	22K
V3	6BA6	2.6meg	0Ω	FIL	FIL	+1400Ω	134K	68Ω	0Ω	0Ω
V4	12AX7A	+1570K	6.8meg	0Ω	FIL	FIL	1570K	6.8meg	0Ω	FIL
V5	EL84/6BQ5	NC	380K	150Ω	FIL	FIL	NC	1875Ω	NC	1400Ω
V6	EL84/6BQ5	NC	380K	150Ω	FIL	FIL	NC	1875Ω	NC	1400Ω
V7	EZ81/6CA4	50Ω	NC	1Ω	FIL	FIL	NC	55Ω	NC	NC

ALL MEASUREMENTS TAKEN IN "FM" POSITION UNLESS OTHERWISE DESIGNATED.
 * MEASURED IN "AM" POSITION.
 † MEASURED FROM PIN 3 OF V7.
 ‡ THIS READING WILL VARY DEPENDING UPON THE CONDITION OF THE ELECTROLYTIC IN THE CIRCUIT.

SEE PARTS LIST FOR ALTERNATE VALUE OR APPLICATION
 DC COIL RESISTANCE VALUES UNDER ONE OHM NOT SHOWN ON SCHEMATIC DIAGRAM
 NUMBERS ASSIGNED TO COILS, SWITCHES, PLUGS, SOCKETS, AND TRANSFORMERS ARE TO FACILITATE CIRCUIT TRACING OR COMPONENT REPLACEMENT AND MAY NOT NECESSARILY BE FOUND ON THE UNIT.

- DC voltage measurements taken with vacuum tube voltmeter; AC voltages measured with 1000 ohm per volt voltmeter.
- Socket connections are shown as bottom views.
- Measured values are from socket pin to common ground.
- Line voltage maintained at 117 volts for voltage readings.
- Nominal tolerance on component values makes possible a variation of ±15% in voltage and resistance readings.
- Volume control at maximum, no signal applied for voltage measurements.

A PHOTOFAC STANDARD NOTATION SCHEMATIC with CIRCUITRACE
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OLYMPIC MODELS 8590, 8591, 8592, 8593, 8594, 8595 (Ch. 159)