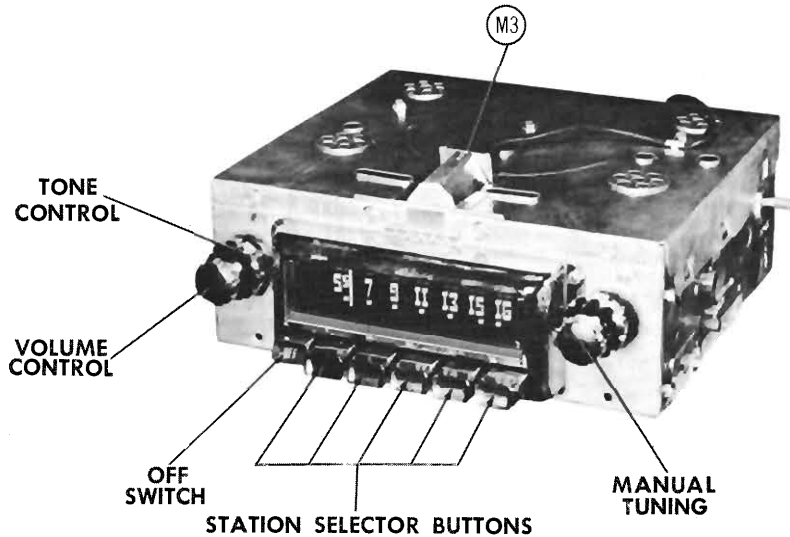


Pin 6	Pin 7
14K Ω	0 Ω
14K Ω	1.4Meg
14K Ω	300 Ω
0	†330K Ω
3K Ω	2.7K Ω
.8K Ω	390K Ω
.8K Ω	330K Ω
20 Ω	35K Ω

1. DC Voltage measurements are at 20,000 ohms per volt, AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Battery voltage maintained at 6.3 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of $\pm 5\%$ on voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

HUDSON
MODELS 236486, 238060 (SH758)



TRADE NAME Hudson Model 236486, 238060 (Sylvania Model SH758)
MANUFACTURER Sylvania Electric Prod., Inc., Radio & TV Div., 254 Rano St., Buffalo 7, N.Y.
TYPE SET Battery Operated Custom Built Automobile Superheterodyne Receiver
TUBES (Eight) Types 6BD6 RF Amp., 6BE6 Conv., 6BD6 IF Amp., 6AV6 Det.-AVC-AF A mp., 6C4 Phase Inv., (2) 6AQ5 Audio Output, 6X4 Rectifier

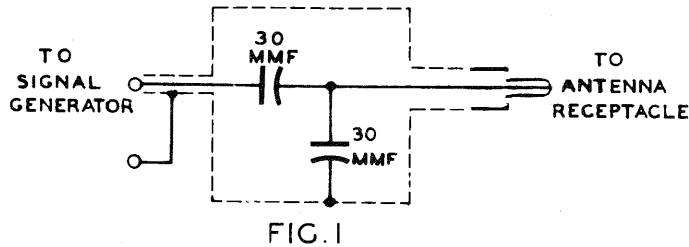
POWER SUPPLY 6 Volt Storage Battery
TUNING RANGE—BROADCAST 540-1600KC
RATING 6.6 Amp. @ 6.3 Volts DC

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

Volume control should be at maximum position. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.

DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
1. .1MFD	High side to pin 7 (grid) of 6BE6 (V2). (accessible thru hole in case). Low side to chassis.	265KC (400 μ Mod)	Quiet Point	Across voice coil	A1, A2 A3, A4	Adjust for maximum output.
2. See Fig.1	Thru dummy to antenna receptacle	1610KC	Tune to high frequency end stop	"	A5, A6 A7	Adjust in order given for maximum output.
3.	Check dial calibration by tuning both generator and receiver to 1000KC. Pointer should be approximately .2 inch to the left of the first "I" in "II" on the dial scale. If necessary recalibrate pointer by means of the calibration adjustment screw. Make the following adjustments only if cores or coils have been replaced or tampered with:					
4. Fig. 1	Thru dummy to antenna receptacle.	1610KC	Tune to high frequency end stop.	Across voice coil	A5, A6 A7	Adjust in order given for maximum output.
5. "	"	1000KC	Tune to 1000KC point on dial. (See step 3)	"	A8, A9 A10	Adjust for maximum output in order given. Repeat steps 4 and 5 except in step 4 omit adjustment of A5.

With receiver aligned and installed in car, fully extend the antenna and check the antenna trimmer adjustment on a weak signal near 1000KC.



HOWARD W. SAMS & CO., INC. • Indianapolis 5, Indiana

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HUDSON
MODELS 236486, 238060 (SH758)

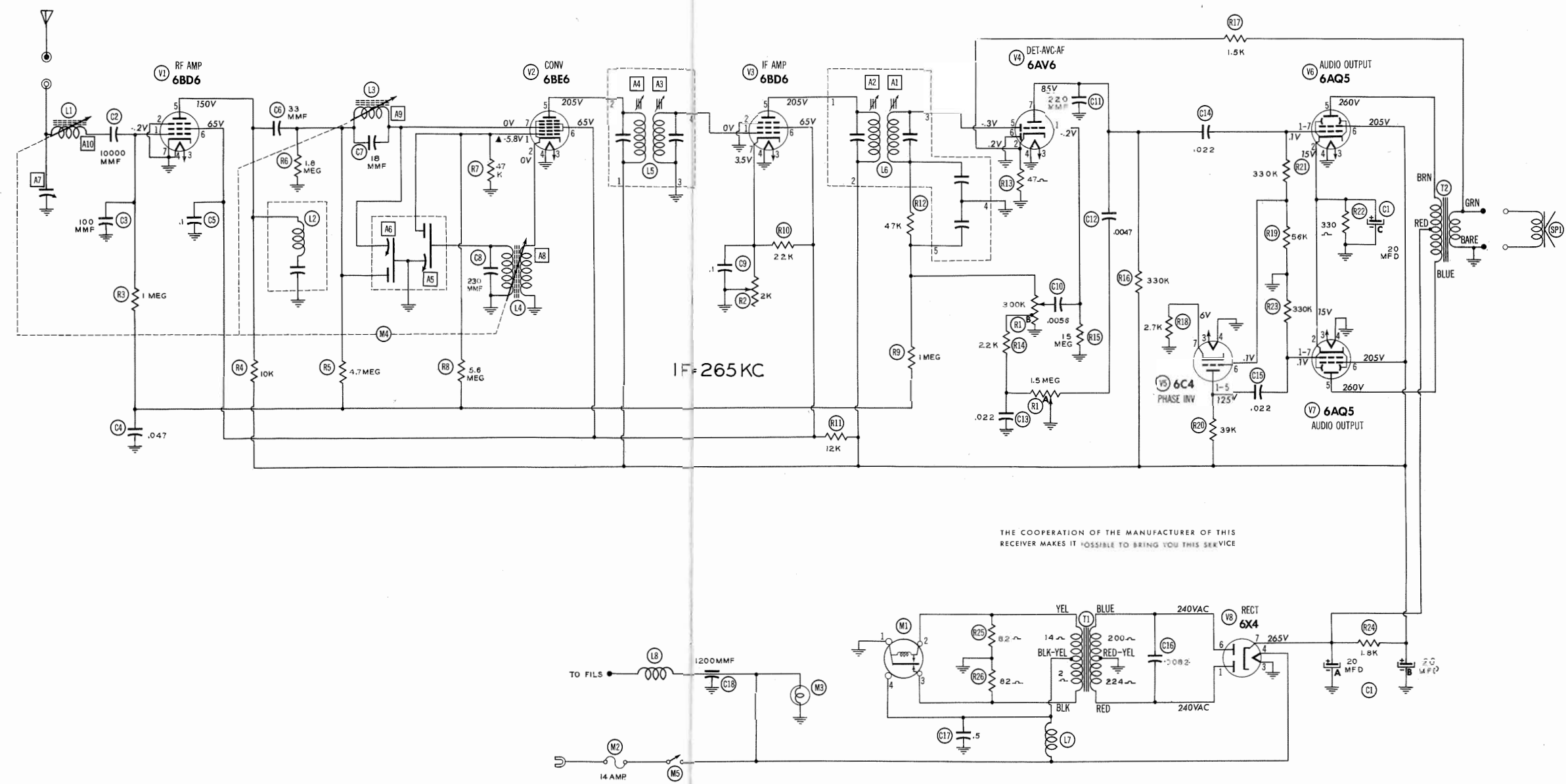
TRADE NAME
MANUFACTURER
TYPE SET
TUBES (Eight)

POWER SUPPLY
TUNING RANGE

Volume control
an output readin

DUMMY	ANTENNA	G
1.	.1MFD	High s (grid) (access hole in side to
2.	See Fig. 1	Thru c tenna
3.	Check dial calib the first "I" in "	Make the follow
4.	Fig. 1	Thru c tenna
5.	"	

With receiver a
ment on a weak



THE COOPERATION OF THE MANUFACTURER OF THIS
RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7
V 1	6BD6	1.7Meg	0Ω	.1Ω	0Ω	†12KΩ	†14KΩ	0Ω
V 2	6BE6	47KΩ	.9Ω	.1Ω	0Ω	†1.8KΩ	†14KΩ	1.4Meg
V 3	6BD6	34Ω	0Ω	.1Ω	0Ω	†1.8KΩ	†14KΩ	300Ω
V 4	6AV6	15Meg	47Ω	.1Ω	0Ω	235KΩ	0Ω	†330KΩ
V 5	6C4	40KΩ	INF	.1Ω	0Ω	†40KΩ	56KΩ	2.7KΩ
V 6	6AQ5	390KΩ	330Ω	.1Ω	0Ω	†290Ω	†1.8KΩ	390KΩ
V 7	6AQ5	330KΩ	330Ω	.1Ω	0Ω	†310Ω	†1.8KΩ	330KΩ
V 8	6X4	224Ω	INF	0Ω	.1Ω	INF	200Ω	35KΩ

▲ TAKEN WITH VACUUM TUBE VOLTMETER.
† MEASURED FROM PIN 7 OF V8.

1. DC Voltage measurements are at 20,000 ohms per volt, AC voltages measured at 1000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Battery voltage maintained at 6.3 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ±15% on voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

TUBES (SYLVANIA or Equivalent)

TUBES (SYLVANIA or Equivalent)

CAPACITORS

ITEM No.	RATING		SYLVANIA PART No.	AEROVOX PART No.	CENTRALAB PART No.	CORNEILL DUBILIER PART No.	REPLACEMENT DATA			NOTES
	CAP.	VOLT					ERIE PART No.	MALLORY PART No.	SPRAGUE PART No.	
C1A	20	350	161-3005	AFH3-107		CO80	FP345-.8	TVL-3678		
C2	20	350								
C2C	20	25								
C3	10000		16W-0002D	BPD-01	DD-1032	TW551	DC-5UL	5HK-SI		
C3C	100	500	164-0100	P469-0001		5R5T1	MCF235	MS-31		
C4	.047	200	160-02147	P268-047	DF-503	PJ255	PT4147	2TM-S47		
C5	.1	400	160-04001	P468-1	DF-104	PTE4P1	PT401	4TM-P1		
C5C	.1	400								
C6	33		163-0033	S133NP0	TCZ-33		NP0L-330	5TCC-Q33		
C7	18	500	164-0018				ZT-5433			
C7C	18	500								
C8	230		165-0230A							
C9	.1	200	160-0201	P288-1	DF-104	PJ2P1	PT401	2TM-P1		
C9C	100	5056								
C10	220	500	160-06256	P488-006	DE-562	PTEGD6	GP2-333-562	6TM-D6		
C11	220	500	163-0220	P488-00025	D6-221	5W5725	GP2K-221	IFM-325		
C12	.0047	400	160-04247	P688-00047	D6-472	PTEGD47	GP2-333-472	PT6247		
C13	.022	200	160-02122	P488-022	DD-472	PTE4S22	PT6122	4TM-S22		
C14	.022	600	160-06122	P688-022	DD-203	PTE6S22	PT6122	6TM-S22		
C15	.022	600	160-06122	P688-022	DD-203	PTE6S22	PT6122	6TM-S22		
C16	.0082	1600	160-16282				VO480	68P20		
C17	.5	100	169-0001	VHC36	PJ2P5		F6215	68P20		
C18	1200		169-0017	CFC-1-9015	FT-1500		362-152	590C-D15		

ITEM No.	RATING		REPLACEMENT DATA		NOTES
	OHMS	WATT	SYLVANIA	IRC PART No.	
R3	1 Meg	4	181-0005	BTS-1 Meg	
R4	10K Ω	4	182-0003	BTA-10K	
R5	4.7Meg	4	181-00478	BTS-4.7Meg	
R6	1.0Meg	4	181-00165	BTS-1.0Meg	
R7	47K Ω	4	181-0143	BTS-47K	
R8	5.0Meg	4	181-05069	BTS-5.0Meg	
R9	1.0Meg	4	181-00195	BTS-1.0Meg	
R10	22K Ω	4	181-0223	BTS-22K	
R11	12K Ω	4	183-0243	BTS-12K	
R12	47K Ω	4	181-0478	BTS-47K	
R13	47K Ω	4	181-0470	BTS-47K	
R14	22K Ω	4	181-0223	BTS-22K	
R15	15 Meg	4	181-0356	BTS-15Meg	

ITEM No.	RATING		REPLACEMENT DATA		NOTES
	OHMS	WATT	SYLVANIA	IRC PART No.	
R16	330K Ω	1	181-0334	BTS-330K	
R17	1500 Ω	1	181-0152	BTS-1500	
R18	2700 Ω	1	181-0272	BTS-2700	
R19	56K Ω	1	181-0563	BTS-56K	
R20	39K Ω	1	181-0393	BTS-39K	
R21	330K Ω	1	181-0334	BTS-330K	
R22	330 Ω	1	182-0331	BTA-330	
R23	330K Ω	1	181-0334	BTS-330K	
R24	1800 Ω	2	183-0182	BTS-1800	
R25	82 Ω	2	181-0820	BTS-82	
R26	82 Ω	2	181-0820	BTS-82	

ITEM No.	RATING		REPLACEMENT DATA				INSTALLATION NOTES
	RESIST-ANCE	WATTS	SYLVANIA PART No.	IRC PART No.	CLAROSTAT PART No.	CENTRALAB PART No.	
R1A	1.5Meg		154-0005				
B 300KΩ	Bushing						
R2	2000Ω	1	159-0004				
	with 100Ω stop						

TRANSFORMER (VIBRATOR)

① Drill new mounting holes.

ITEM No.	RATING				REPLACEMENT DATA					NOTES
	IMPEDANCE		DC RES.		SYLVANIA PRL No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.	
	PRI.	SEC.	PRI.	SEC.						
T2	7.5K Ω	3.3K	600K	.32K	143-0025	A-3852	A-2901	RO-301	S-51X	Drill new mounting holes.

ITEM No.	RATINGS			REPLACEMENT DATA				NOTES
	SIZE	FIELD	V. C. IMP.	SYLVANIA		QUAM		
				PART No.	JENSEN	PART No.		
SP1	5"X7"	PM	3.30	529-4703		5719	57A1	Q 6"X9" Speaker used on model 139060.
SP2	6"X9"	PM	3.32	530-0006 Q		6919	69A2	

ITEM No.	USE	DC RES.		REPLACEMENT DATA				NOTES
		PRI.	SEC.	SYLVANIA PART No.	MEISSNER PART No.	MERIT PART No.	MILLER PART No.	
L1	Ant. Coil		10, 5Ω	III-0019				Wound on Capacitor
L2	IF Trap			III-0008				
L3	RF Coil		11Ω	III-0011				
L4	Osc. Coil		4, 2Ω	III-0044				
L5	Input IF		34Ω	121-0090	16-6752	BC-350	12-H1	
L6	Output IF		40Ω	122-0022	16-6754	BC-354	12-H6	
L7	Vibrator							
L8	Hash Choke F11, Choke		0Ω	147-0007			5221	
			.2Ω	149-0007				11 Microhenries

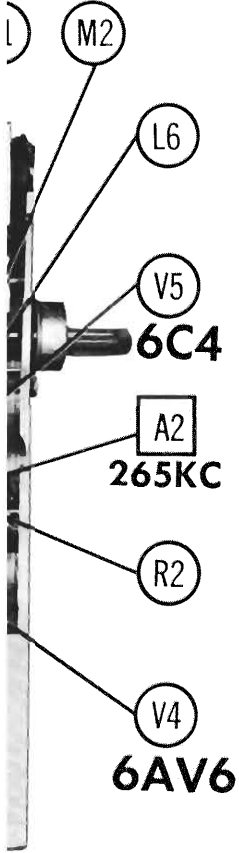
ITEM No.	TYPE	RATING	REPLACEMENT DATA						
			SYLVANIA PART No.		LITTELFUSE PART No.		BUSS PART No.		
			FUSE	HOLDER	FUSE	HOLDER	FUSE	HOLDER	
M2	SFE	14A	191-0002		307014 (SFE-14A)	155014		SFE-14	HDI

ITEM No.	TYPE	INPUT VOLTS	FREQUENCY	REPLACEMENT DATA				NOTES
				SYLVANIA PART No.	CORNELL-DUBIER PART No.	MALLORY PART No.	RADIART PART No.	
MI	Interruiter	6.3V	115c	511-0001	5301	859	5301	

R12	41AAG	181-04173	BTS-47K	R26	8210	181-00249	B13-52
R13	47K	181-0470	BTS-47			181-0020	B79-52
R14	22K10	181-0223	BTS-22K				
R15	15 Meg	181-0156	BTS-15Meg				

CONTROLS

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES
	RESIST-ANCE	WATTS	SYLVANIA PART No.	IRC PART No.	CENTRALAB PART No.	
R1A	1.5Meg		154-0005			Tone - Panel Volume Tap ⑤ ⑥ ⑨KΩ-Rear Attach to R1A Sensitivity-Wire Wound
B	300KΩ				UF155A UR354T74	
C	Bushing				UB214	
R2	2000Ω	1	159-0004			
	with 100Ω stop					



PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (VIBRATOR)

ITEM No.	RATING			REPLACEMENT DATA					
	PRI.	SEC. 1	SEC. 2	SEC. 3	SYLVANIA PART No.	STANCOR PART No.	MERIT PART No.	CHICAGO PART No.	TRIAD PART No.
		6.3VAC ④ 4A	480VCT .058ADC			141-0025		P-3068 ①	
T1									

① Drill new mounting holes.

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING			REPLACEMENT DATA			NOTES
	IMPEDANCE	DC RES.		SYLVANIA PART No.	STANCOR PART No.	CHICAGO PART No.	
		PRI. SEC.	PRI. SEC.	143-0025			
T2	7.5KΩ	3.3Ω	600Ω	.32Ω	A-3852 ①	A-2901 ①	RO-301 ①
	CT		CT				S-51X ①

① Drill new mounting holes.

SPEAKER

ITEM No.	RATINGS			REPLACEMENT DATA			NOTES
	SIZE	FIELD		SYLVANIA PART No.	JENSEN PART No.	QUAM PART No.	
		PM	V. C. IMP.	528-5703	5739	57A1	
SP1	5"x7"	PM	3.3Ω	535-0006 ①	6979	69A2	① 6"x9" Speaker used on model 238060.
SP2	6"x9"	PM	3.3Ω				

COILS (RF-IF)

ITEM No.	USE	DC RES.		REPLACEMENT DATA			NOTES
		PRI.	SEC.	SYLVANIA PART No.	WEISSNER PART No.	MERIT PART No.	
		10.5Ω		I11-0019			
L1	Ant. Coil			I18-0008			Wound on Capacitor
L2	IF Trap			I12-0011			
L3	RF Coil	11Ω		I13-0044			
L4	Osc. Coil	.9Ω	4.2Ω	I21-0020	16-6752	BC-350	12-H1 12-H6
L5	Input IF	34Ω		I22-0022	16-6754	BC-354	
L6	Output IF	42Ω	40Ω	I47-0007			
L7	Vibrator			I45-0007			11 Microhenries
L8	Hash Choke	0Ω					
	FIL. Choke	.2Ω					

FUSES

ITEM No.	TYPE	RATING	REPLACEMENT DATA			
			SYLVANIA PART No.		LITTELFUSE PART No.	BUSS PART No.
			FUSE	HOLDER	FUSE	HOLDER
M2	SFE	14A	191-0002		307014	SFE-14
					(SFE-14A)	HDI

VIBRATOR

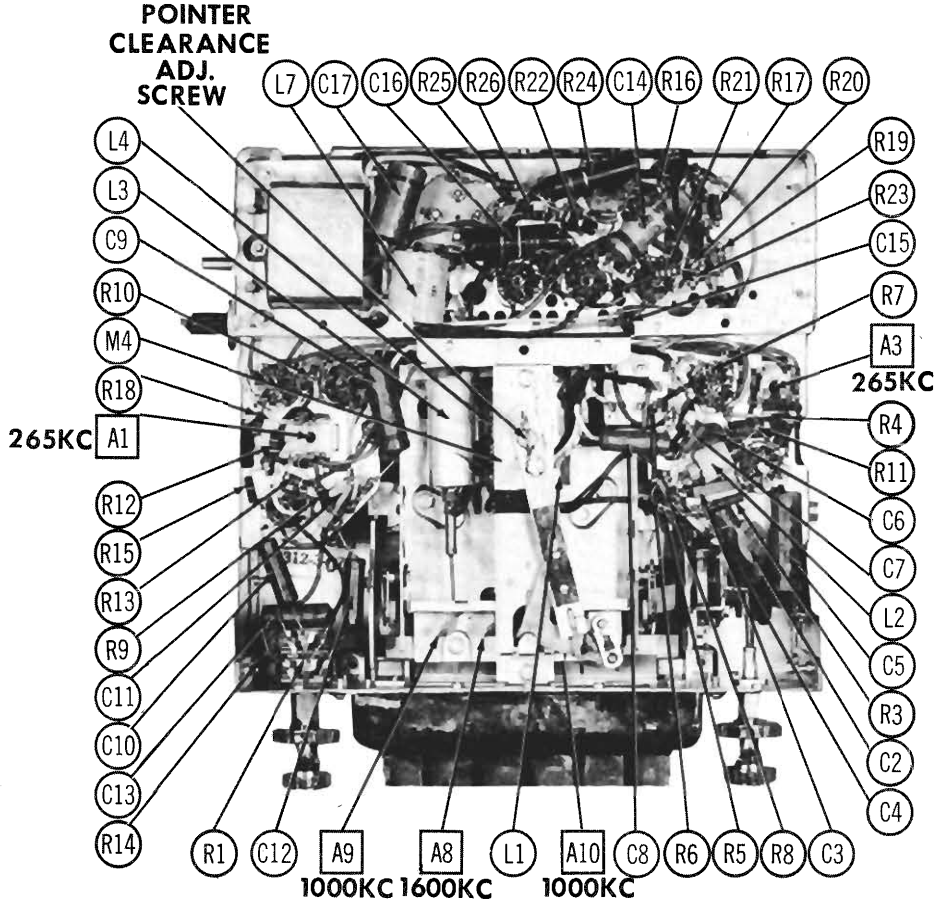
ITEM No.	TYPE	INPUT VOLTS	FREQUENCY	REPLACEMENT DATA			NOTES
				CORNELL DUBIER PART No.	MALLORY PART No.	RADIART PART No.	
				5301	859	5301	
M1	Interrupter	6.3V	115%	511-0001			

PARTS LIST AND DESCRIPTIONS (Continued)

MISCELLANEOUS

ITEM No.	PART NAME	SYLVANIA PART No.	NOTES
M3	Dial Light	61L-0044	Type #44 Models 236486, and 238060 On/Off Osc. Grid & Osc. Trimmer Fixed padder, variable trimmer (RF) Ant. Trimmer
M4	Tuning Assy.	313-0028	
M5	Switch	571-6004	
A5	Trimmer Cap.	173-0002	
A6	Trimmer Cap.	172-0034	
A7	Dial	722-0032	
	Escutcheon	71L-0030	
	Pointer	791-0024	Dial & Arm Assy. Push Push -Off Tone Control Trim Volume & Tuning
	Button	752-0030	
	Knob	744-0009	
	Knob	744-0010	
	Knob	749-0012	

CHASSIS—BOTTOM VIEW



PUSHBUTTON & SENSITIVITY CONTROL ADJ.

PUSHBUTTON ADJUSTMENT
Collapse the antenna.
Allow receiver to warm up for 15 minutes.
Unlock push button by *pulling* to the left and outward.
Tune manually to desired station.
Press the button completely in.
Repeat the procedure with the remaining pushbuttons.

SENSITIVITY CONTROL ADJUSTMENT
The sensitivity control is factory adjusted and should not require readjustment unless it has been tampered with.
If necessary, reset the control to obtain 3.5 volts at pin 7 (cathode) of 6BD6 (V3).