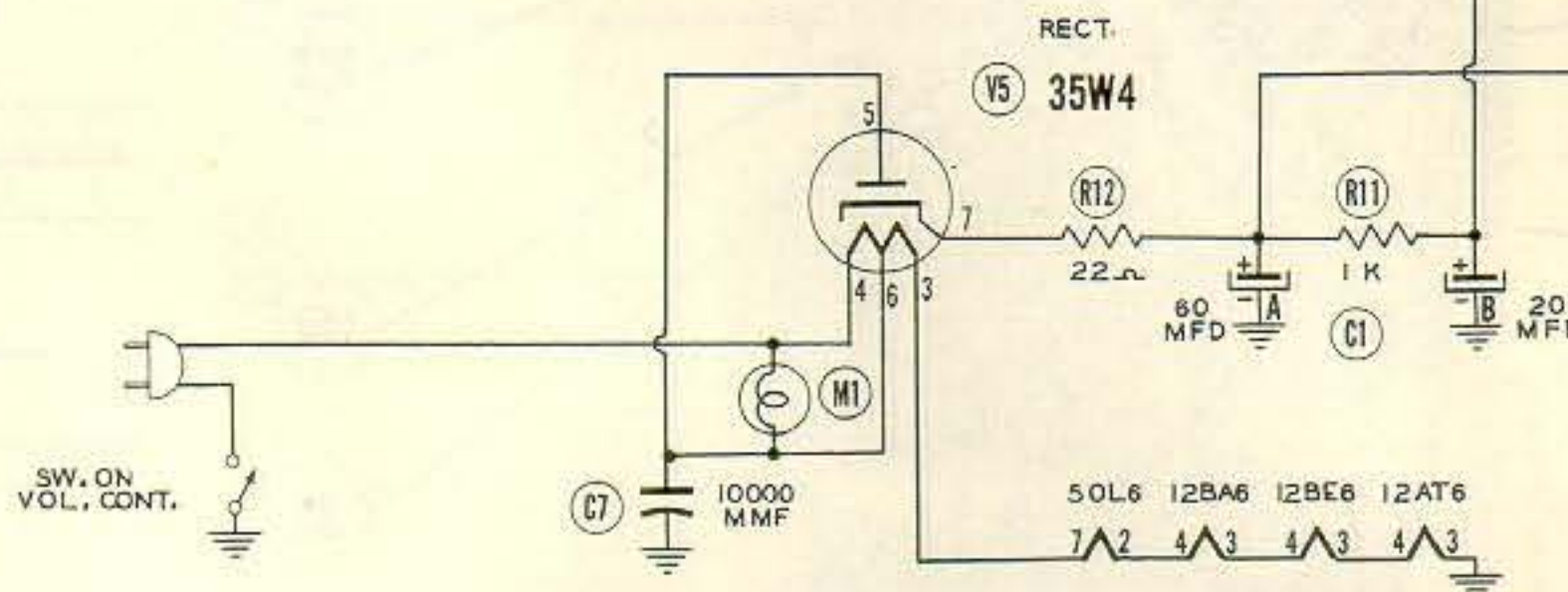
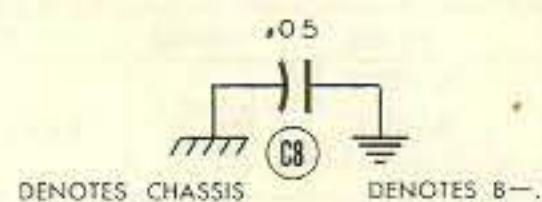


IF = 455 KC



VOLTAGE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V 1	12BE6	8-6VDC	0V	12VAC	24VAC	90VDC	90VDC	- .3VDC	
V 2	12BA6	-.2VDC	0V	24VAC	38VAC	90VDC	90VDC	.6VDC	
V 3	12AT6	-.4VDC	0V	0V	12VAC	-.5VDC	-.5VDC	30VDC	
V 4	50L6GT	0V	85VAC	105VDC	85VDC	0V	8.5VDC	36VAC	5.6VDC
V 5	35W4	0V	0V	85VAC	117VAC	110VAC	110VAC	115VDC	

‡ TAKEN WITH VACUUM TUBE VOLTMETER.

RESISTANCE READINGS

Item	Tube	Pin 1	Pin 2	Pin 3	Pin 4	Pin 5	Pin 6	Pin 7	Pin 8
V 1	12BE6	10KΩ	.6Ω	12Ω	24Ω	†1KΩ	†1KΩ	3.2Meg	
V 2	12BA6	3.2Meg	0Ω	24Ω	36Ω	†1KΩ	†1KΩ	68Ω	
V 3	12AT6	4.7Meg	0Ω	0Ω	12Ω	1Meg	1Meg	1470KΩ	
V 4	50L6GT	Inf.	36Ω	†210Ω	†1KΩ	470KΩ	10KΩ	86Ω	150Ω
V 5	35W4	Inf.	Inf.	86Ω	121Ω	105Ω	105Ω	250KΩ	

† MEASURED FROM PIN 7 OF V5.

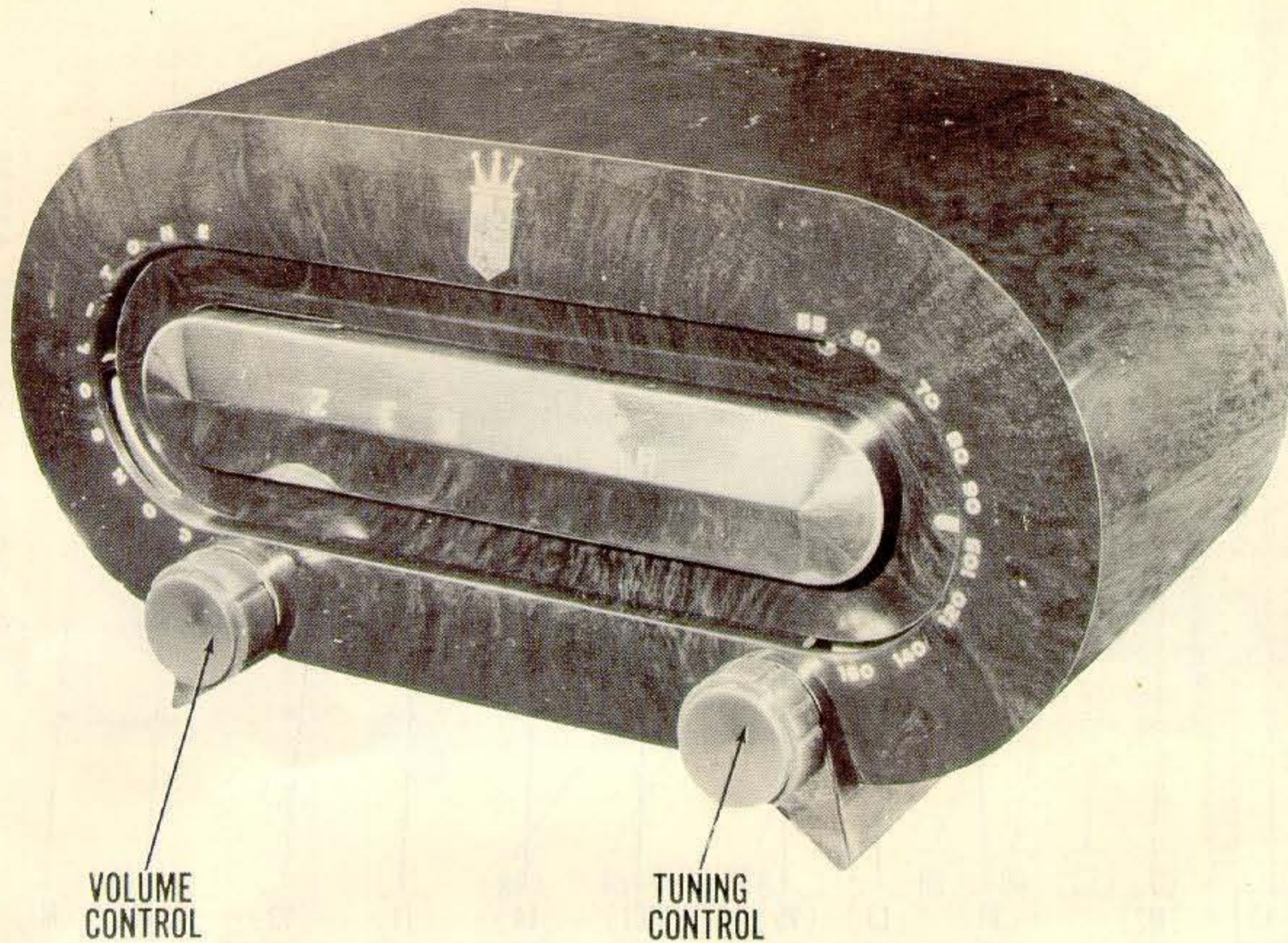
THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

A PHOTOFAC STANDARD NOTATION SCHEMATIC  
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1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of ± 10% in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.



ZENITH  
MODELS H511, H511Y, H511W, (Ch. 5H01)



ZENITH  
MODELS H511, H511Y, H511W, (Ch. 5H01)

TRADE NAME	Zenith, Models H511, H511Y, H511W (Ch. 5H01)		
MANUFACTURER	Zenith Radio Corp., 6001 Dickens Ave., Chicago, Illinois		
TYPE SET	AC-DC Operated Superheterodyne Receiver with Loop Antenna		
TUBES (FIVE)	Types 12BE6 Converter, 12BA6 IF Amp., 12AT6 DET.-AVC-AF, 50L6GT or 50C5 Power Output, 35W4 Rectifier		
POWER SUPPLY	110-120 Volts AC-DC	RATING	.25 Amp. at 117 Volts AC
TUNING RANGE—BROADCAST	535-1620KC		

ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT

To set pointer turn tuning gang fully closed and set pointer to the left hand edge of the first 5 of 55 at the low frequency end of dial scale.

Use isolation transformer, if available. If not, connect a .1MFD capacitor in series with low side of signal generator and B-Loop should be maintained in same relative position to chassis as when receiver is in cabinet.

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. .5MFD.	High side to stator on rear section of tuning gang. Low side to B-.	455KC (400% Mod.)	Tuning gang fully closed.	Across voice coil.	A1, A2, A3, A4	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001MFD to reduce hum modulation.
2.	Loop	1620KC	Tuning gang fully open.	"	A5	Fashion loop of several turns of wire and radiate signal into loop of receiver. Adjust for maximum output.
3.	Loop	1400KC	Tune for max. output.	"	A6	"

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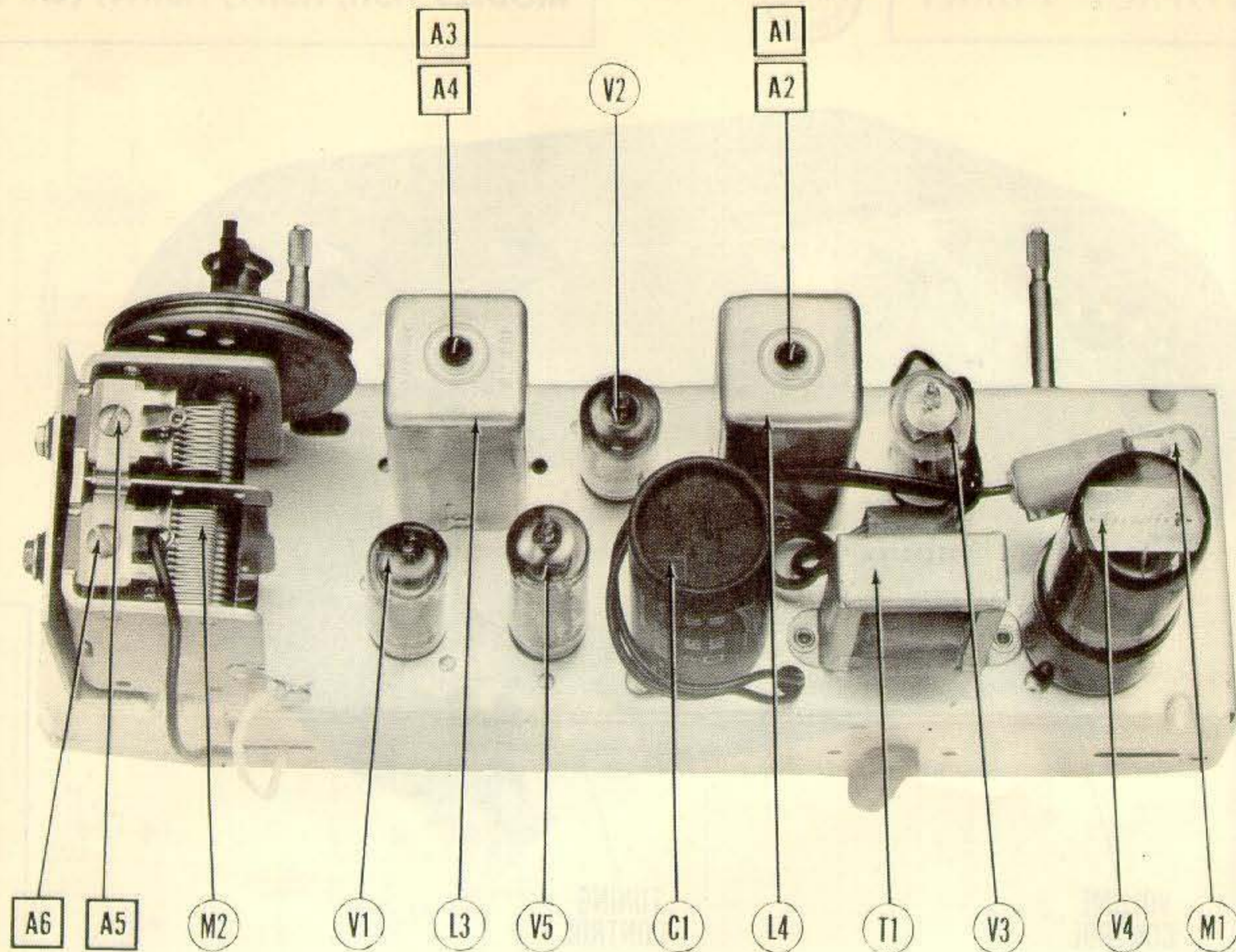
# PARTS LIST AND DESCRIPTIONS

## TUBES (SYLVANIA or Equivalent)

ZFNITH  
MODEL H511

# CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA		RMA BASE TYPE	INSTALLATION NOTES
		ZENITH PART No.	STANDARD REPLACEMENT		
V1	Converter	12BE6	12BE6	7CH	
V2	IF Amplifier	12BA6	12BA6	7BK	
V3	Det.-AVC-AF	12AT6	12AT6	7BT	
V4A	Power Output	50L6GT	50L6GT	7AC	
B	Power Output	50C5	50C5	7CV	
V5	Rectifier	35W4	35W4	5BQ	



## CAPACITORS

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

ITEM No.	RATING CAP. VOLT	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		ZENITH PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	ERIE PART No.	
C1A	60	22-1804	AFH3-08	UP42215	TVL-3437	Filter
B	150					Filter
C2	150	22-1158	P288-05	PTE4S5	2TM-S5	AVC Filter
C3	200	22-3	BPD-01	ID3S1	5HK-S1	Audio Coupling
C4A	10000		P688-005	PTE6D5	GP2-333-502	Audio Coupling
B	.005	105-28		PC-70		AF Amp. Plate
C	250					Output Grid
C5	.05	22-1158	P288-05	PTE4S5	2TM-S5	Tone Comp.
C6	.02	22-1379	P488-02	PTE4S2	4TM-S2	Output Plate
C7	10000	22-3	BPD-01	ID3S1	5HK-S1	Rectifier Plate
C8	.05	22-1158	P288-05	PTE4S5	2TM-S5	Line Isolation
C9	110	22-5	S1110			Osc. Grid Cap.

\* Alternate part # 22-162 or 22-1689.  
 † Items C4A, C4B, C4C, R9A, R9B are combined in one unit. When replacing separately, C4B and C4C should total 250MMMF.

## CONTROLS

ITEM No.	RATING RESIST-ANCE WATTS	REPLACEMENT DATA			INSTALLATION NOTES
		ZENITH PART No.	IRC PART No.	CENTRALAB PART No.	
R1A	1Meg	63-2271	Q11-133	AG-61-S	Volume Control Attach to R1A per instructions Attach to R1A per instructions
B	Shaft	Not req.	Not req.	KSS-3	
C	Switch	Not req.	76-1	SWB	

## RESISTORS

ITEM No.	RATING RESISTANCE WATTS	REPLACEMENT DATA		IDENTIFICATION CODES
		ZENITH PART No.	IRC PART No.	
R2	330Ω	63-1737	BTS-330	Parasitic Suppressor - See Note 1
R3	10KΩ		BTS-10K	Osc. Grid - See Note 2
R4	68Ω	63-1926		IF Amp. Cathode
R5	2.2Meg	63-1766	BTS-1800	AVC Network
R6	1800Ω	63-1828	BTS-10K	Feedback
R7	10KΩ	63-1940	BTS-10K	Tone Compensation
R8	4.7Meg	105-28	BTS-270K	AF Amp. Grid
R9A	470KΩ		BTS-470K	AF Amp. Plate
B	470KΩ	63-686		Output Grid
R10	150Ω	63-1574	BW-1-150	Output Cathode - Wire Wound
R11	1000Ω	63-1219	BTA-1000	Filter
R12	22Ω		BW-1-22	Surge Limiter - Wire Wound

\* Items R9A, R9B, C4A, C4B, and C4C are combined into one unit.  
 Note 1 Not used in all models.  
 Note 2 Some models use 22KΩ Resistor in this application.

# PARTS LIST AND DESCRIPTIONS (Continued)

## TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING		REPLACEMENT DATA			INSTALLATION NOTES		
	IMPEDANCE	DC RES.	ZENITH PART No.	STANCOR PART No.	MERIT PART No.		CHICAGO PART No.	
T1	2.5KΩ	3.2Ω	190Ω	.7Ω	A-3332 ①	A-3025	RO-2 ①	① Drill one new mounting hole.

## SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA			INSTALLATION NOTES
		ZENITH PART No.	JENSEN PART No.	QUAM PART No.	
SP1	FIELD PM CONE DIA. V. C. DIA. V. C. IMP.	49-698	ST803 Mod. P525-V	52A1	
SP2	5 1/4" 9/16"				

## R F COILS

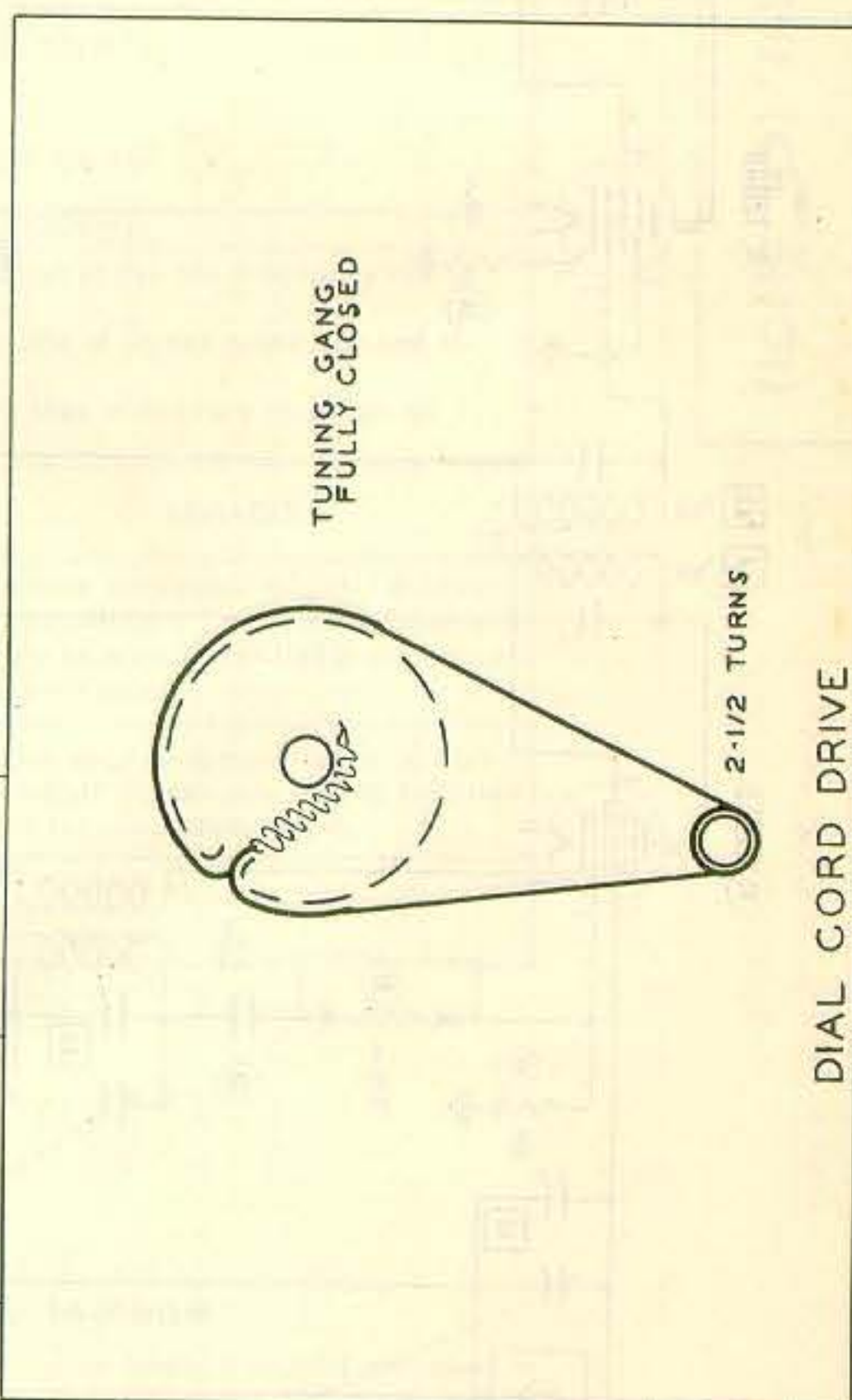
ITEM No.	USE	DC RES.		REPLACEMENT DATA	
		PRI.	SEC.	ZENITH PART No.	
L1	Loop Ant.	2.5Ω		S-17697	
L2	Osc. Coil	5Ω	.6Ω	S-14842	
L3	1st. IF	25Ω	25Ω	95-1101	
L4	2nd. IF	25Ω	25Ω	95-1102	

## DIAL LIGHTS

ITEM No.	BASE TYPE	VOLTS	AMPS.	BEAD COLOR	REPLACEMENT DATA		NOTES
					ZENITH PART No.		
M1	Bayonet	6-8	.15	Brown	100-67		Type # 47

## MISCELLANEOUS

ITEM No.	PART NAME	ZENITH PART No.	NOTES
M2	2 Gang Var. Cap. Dial Pointer Cabinet Cabinet Cabinet	22-2277 59-256 14-1295 14-1305 14-1311	(22-468MMF, 38-212MMF) Model H511 Model H511Y Model H511W



# CHASSIS—BOTTOM VIEW

