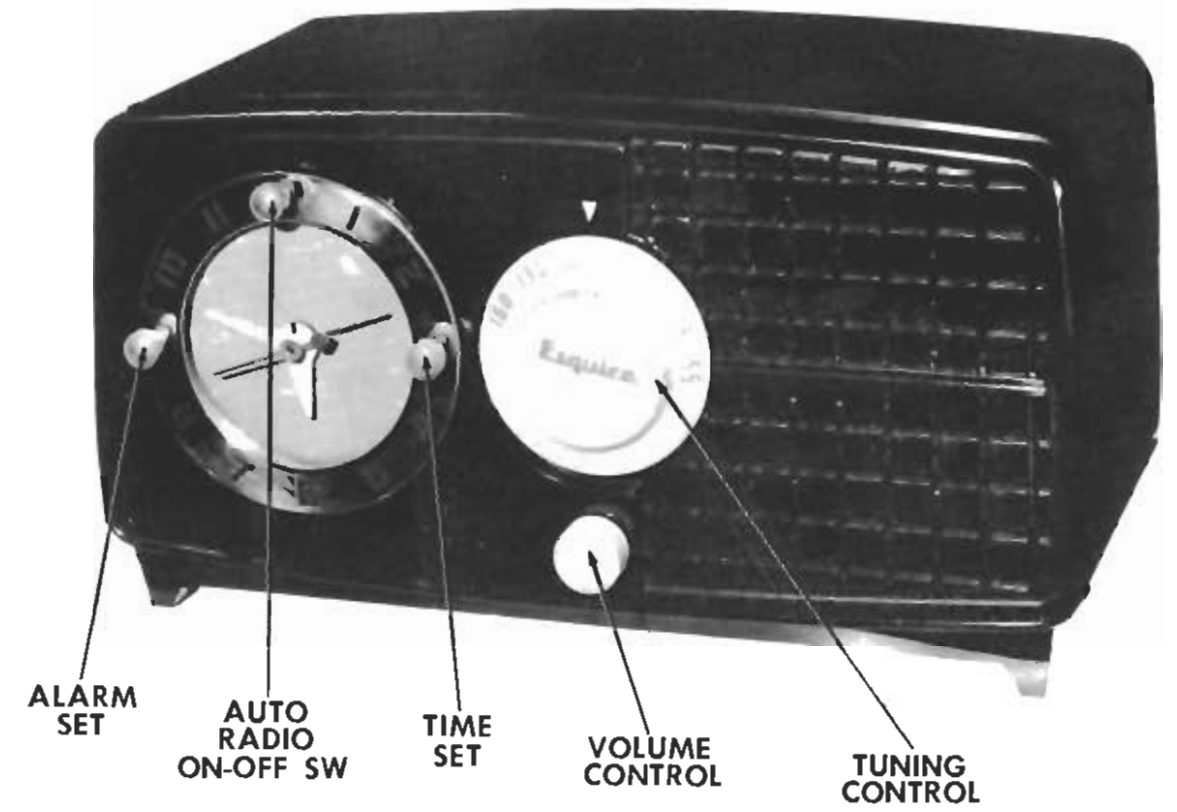


157-3

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 at bottom views.
3. Measured values are from socket pins to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of $\pm 10\%$ in voltage and resistance readings.
6. Volume control at maximum; no signal applied for voltage measurements.



ESQUIRE
MODEL 511



ESQUIRE
MODEL 511

TRADE NAME	Esquire Model 511					
MANUFACTURER	Esquire Radio Corp., 28 Court St., Brooklyn 2, N. Y.					
TYPE SET	AC Operated Superheterodyne Receiver with Electric Clock					
TUBES (FOUR)	Types 12BE6 Conv., 12AT6 Det.-AVC-AF Amp., 50C5 Power Output, 35W4 Rectifier.					
POWER SUPPLY	110-120Volts AC-60 Cycle		RATING .24 Amp. @ 117 Volts AC			
TUNING RANGE-BROADCAST	535-1650					
ALIGNMENT INSTRUCTIONS-READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT						
To set pointer, turn tuning capacitor fully closed and set point to last reference mark at low frequency end of dial. 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
.1MFD	High side to stator on rear section of tuning gang. Low side to B -.	455KC (400-Mod.)	Tuning gang fully open.	Across voice coil	A1, A2	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001MFD to reduce hum modulation.
100MMF	High side to ant. terminal on ant. coll. (Remove hunk). Low side to B-.	1650KC	"	"	A3	Adjust for maximum output.
"	"	1400KC	Tune for max. output.	"	A4	Adjust for maximum output.

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

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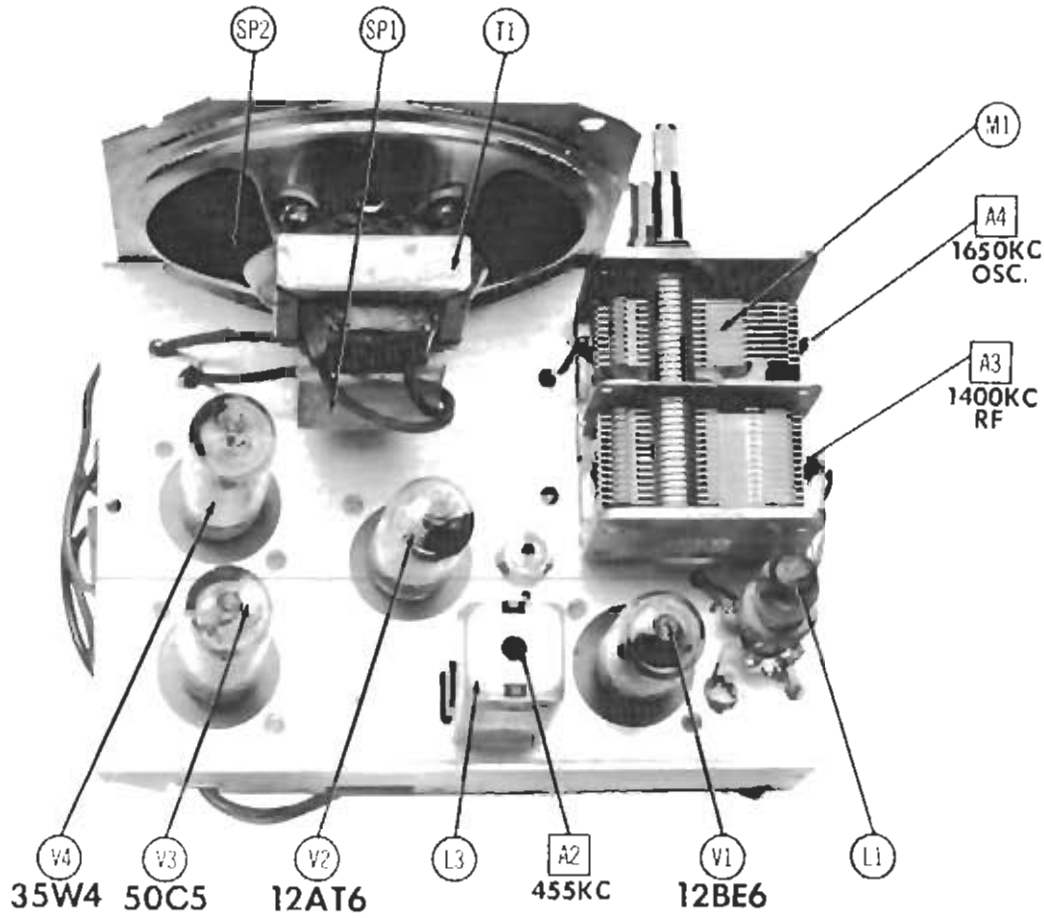
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PARTS LIST AND DESCRIPTIONS
TUBES (SYLVANIA or Equivalent)

ESQUIRE
MODEL 311

ITEM No.	USE	REPLACEMENT DATA			RMA BASE TYPE	INSTALLATION NOTES
		ESQUIRE PART No.	STANDARD REPLACEMENT			
V1	Converter	12BE6	12BE6		7CI1	
V2A	Det.-AVC-AF Amp	12AT6	12AT6		7BT	
V2B	Det.-AVC-AF Amp	12AV6	12AV6		7BT	
V3	Power Output	50C5	50C5		7CV	
V4	Rect.	35W4	35W4		5BQ	

CHASSIS—TOP VIEW



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	REPLACEMENT DATA				IDENTIFICATION CODES AND INSTALLATION NOTES
		ESQUIRE PART No.	AEROVOX PART No.	CORNBELL DUBIELL PART No.	ERIC PART No.	
C1A	50 .05 150	32-2	PR150/50-70	BD10315A	TYA-2450	Filter (Green)
C2	30 .05 100	30-5	P488-05	DP-503	4TM-85	Filter (Red)
C3	100 .05 400	31-1	SD10	D6-101	50A-T1	AVC Filter
C4	100 .002 200	30-12	P688-02	D6-202	PTM-D2	Diode RF Filter
C5	.01 600 30-1	30-1	P688-01	D6-103	PTM-D1	Audio Coupling
C6	.01 600 30-1	30-1	P688-01	D6-103	PTM-D1	Power Output Filter
C7	.05 400 30-6	30-6	P488-06	DP-502	4TM-85	Line Filter
C8	.05 400 30-5	30-5	P488-05	DP-503	4TM-85	Line Isolation

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA			INSTALLATION NOTES
		ESQUIRE PART No.	IRC PART No.	GENERAL PART No.	
R1A	25-1	Q13-139	AG-68-2	AN-76	Volume Control
R2	Slide	Not req.	ESS-3	AK-4	Attach to R1A per instructions.

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		ESQUIRE PART No.	IRC PART No.		
R2	250K 1/2W	20-5	DT3-22K		Osc. Grid
R3	4.7M 1/2W	20-10	DT3-4.7M		AVC Network
R4	100K 1/2W	20-14	DT3-100K		AF Amp. Grid
R5	470K 1/2W	20-9	DT3-470K		AF Amp. Plate
R6	250K 1/2W	20-8	DT3-250K		Detector Grid
R7	2200 1/2W	21-4	DTA-2200		Rectifier Ballast
R8	250 1/2W	20-1	BW-4-22		Filament Dropping
R9	250 1/2W	21-1	DT3-4-22		Filament Dropping
R10	220 1/2W	21-1	DT3-4-22		Filament Dropping

PARTS LIST AND DESCRIPTIONS (Continued)

TRANSFORMER (AUDIO OUTPUT)

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		ESQUIRE PART No.	STANCOR PART No.	MERT PART No.	CHICAGO PART No.	
T1	2.5KVA 3.5/3 1750 .50	Part of Spkr.	A-3372	A-3372	A3035	Use listed mounting tabs down, file out slots and mount on original bracket.

SPEAKER

ITEM No.	RATINGS	REPLACEMENT DATA			NOTES
		ESQUIRE PART No.	JENSEN PART No.	QUAM PART No.	
SP1	FIELD RES. 3.5/3 1750 .50	10-1	ST-113	4A1	
SP2	FIELD RES. 3.5/3 1750 .50	10-1	ST-113	4A1	

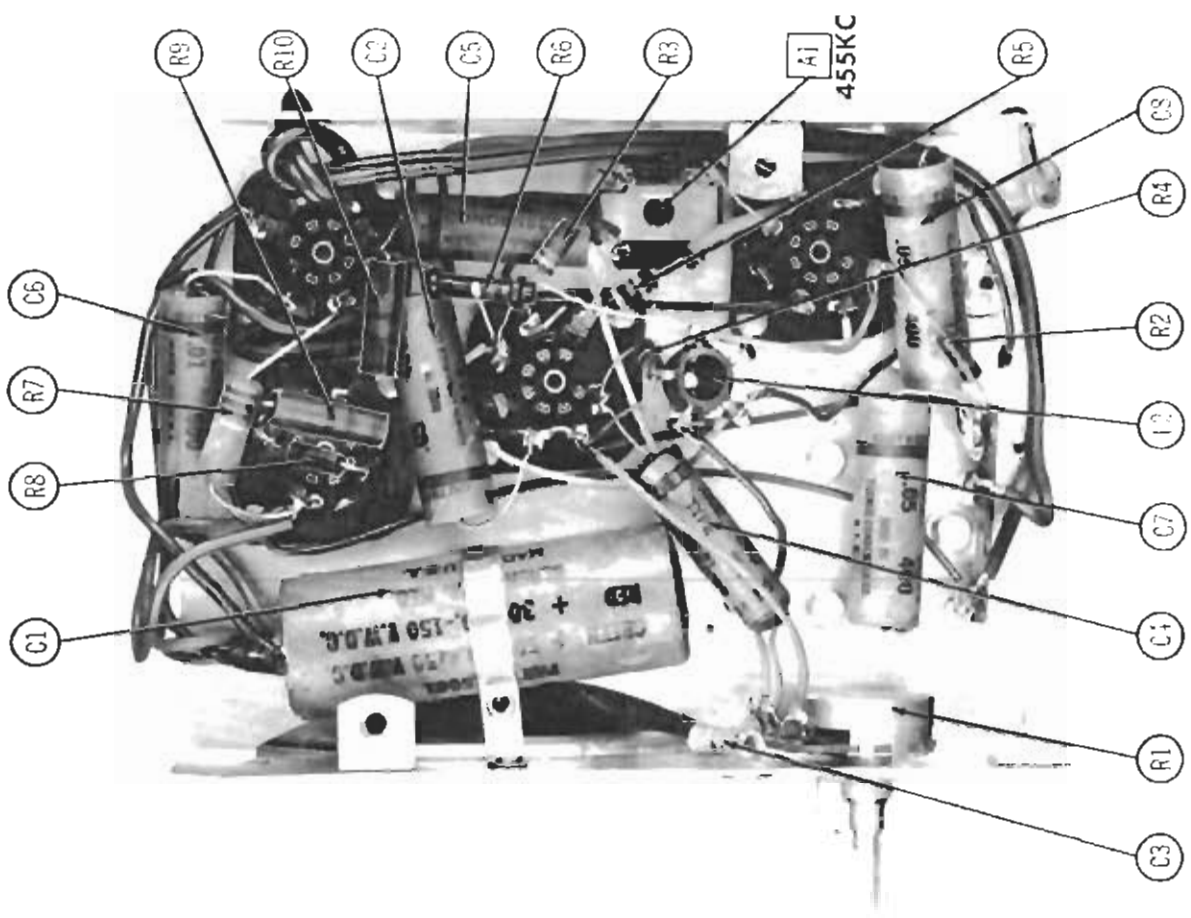
COILS (RF-IF)

ITEM No.	USE	REPLACEMENT DATA			NOTES
		ESQUIRE PART No.	ESQUIRE PART No.	MERT PART No.	
L1	Ant. Coil	60-1	61-2		
L2	Ant. Coil	60-1	61-2		
L3	IF Transformer	60-1	61-2		

MISCELLANEOUS

ITEM No.	PART NAME	ESQUIRE PART No.	NOTES
M1	2 Gang Vario-Tune	35-1	(P2-475MMT, 25-102MMT)
M2	2 Gang Vario-Tune	35-1	(P2-475MMT, 25-102MMT)
M3	2 Gang Vario-Tune	35-1	(P2-475MMT, 25-102MMT)

CHASSIS—BOTTOM VIEW



ESQUIRE
MODEL 311