



ULTRA RADIO CO.

SERVICE DATA

Voltage Rating.....	105-125 Volts	Number and Types of Radiotrons.....	1 UX-280, 1 W 2A5, 1 W 58, 1 W 57, 1 W 2A7.....	Total 5
Frequency Rating.....	25-60 Cycles	Undistorted Output.....	1.75 Watts	
Power Consumption.....	70 Watts	Frequency Range.....	504 K.C. to 1550 K.C.	

This receiver is a five-tube Super-Heterodyne incorporating a Dynamic Loud speaker as a part of the chassis; two-point tone control; single heater type Pentode Output tube and the inherent sensitivity, selectivity and tone quality of the Super-Heterodyne.

The circuit consists of an R.F. Stage, a combined oscillator and first detector in the Westinghouse 2A7 tube, an intermediate stage consisting of a transformer only using two tuned circuits, a second detector, an output tube and a rectifier.

Service work in conjunction with this receiver will be similar to that of other Super-Heterodyne receivers of the small compact type construction. The line-up adjustments are made in conjunction with an external oscillator and an output meter. The line-up capacitors on the gang capacitor are adjusted for maximum output when the oscillator is coupled to the antenna and the set and oscillator are both set at 1400 K.C. The I.F. frequency is 175 K.C. and the two circuits that comprise it are adjusted for maximum output at 175 K.C.

RADIOTRON SOCKET VOLTAGES

115 Volt A. C. Line

MAXIMUM VOLUME CONTROL SETTING---NO SIGNAL

Radiotron No.	Cathode to Control Grid, Volts	Cathode to Screen Grid, Volts	Cathode to Plate Volts	Plate Current M.A.	Heater Volts
1. W-58 R.F. Amplifier	3.0	95	250	5.0	2.33
2. W-2A7 First Detector Oscillator	3.0	95	250	3.0	2.33
3. W-57 Second Detector	6.0	89	170	0.3	2.33
4. W-2A5 Power Amplifier	18.0	235	220	32.0	2.33
5. W-80 Rectifier	725 Volts PLATE TO PLATE—60 M.A. TOTAL				4.82
TOTAL CATHODE CURRENT—11 M.A.					

REPLACEMENT PARTS

Insist on genuine factory tested parts, which are readily identified and may be purchased from authorized dealers.

STYLE NO.	DESCRIPTION	LIST PRICE	NO.	DESCRIPTION	LIST PRICE
H-29391	Coil—Antenna coil assembly.....	\$1.60	H-29383	Capacitor—flat type—0.05 mfd.—300 volts..	\$0.90
H-29392	Coil—R.F. coil assembly.....	1.40	H-29381	Capacitor—flat type—0.1 mfd.—150 volts....	.55
H-29393	Coil—Oscillator coil assembly.....	1.10	H-29387	Capacitor—flat type—0.1 mfd.—300 volts....	.55
H-29389	Coil—R.F. choke.....	1.00	H-29380	Capacitor—flat type—0.25 mfd.—300 volts....	.60
H-29390	Transformer—I.F. transformer.....	2.80	H-29374	Capacitor—two 4.0 mfd. dry electrolytic units in container.....	2.45
H-29399	Transformer—Line transformer—25-60 cyc.	7.70	H-29376	Capacitor—10 mfd.—wet electrolytic.....	2.10
H-29367	Resistor—carbon— $\frac{1}{4}$ watt—60,000 ohms.....	See RS2141	H-29394	Socket—4 contact socket.....	.50
H-27699	Resistor—carbon— $\frac{1}{2}$ watt—20,000 ohms.....		H-29409	Socket—6 contact socket.....	.80
H-29372	Resistor—carbon— $\frac{1}{2}$ watt—50,000 ohms.....		H-29410	Socket—7 contact socket.....	.60
H-29339	Resistor—carbon— $\frac{1}{2}$ watt—200,000 ohms.....		H-23786	Clip—grid connector clip—Pkg. of 5.....	.60
H-29366	Resistor—carbon— $\frac{1}{2}$ watt—250,000 ohms.....		H-29406	Knob—large control knob with set screw.....	.25
H-25519	Resistor—carbon— $\frac{1}{2}$ watt—1.0 meg.....		H-29405	Knob—small control knob with set screw.....	.25
H-29369	Resistor—carbon—1 watt—500 ohms.....		H-29388	Scale—tuning dial scale assembly.....	.75
H-27702	Resistor—carbon—1 watt—14,000 ohms.....		H-29564	Ring—R.F. or oscillator coil retaining ring.....	.12
H-29368	Resistor—carbon—3 watts—14,000 ohms.....		H-29362	Reproducer assembly complete.....	
H-29364	Volume control and operating switch.....	1.85	H-29404	Transformer—output transformer.....	2.15
H-29373	Tone control switch.....	.70	H-29363	Cone—reproducer cone.....	1.50
H-29379	Capacitor—toothpick—60 mmfd.....	.55	H-29565	Coil assembly—field coil, magnet and cone support.....	3.50
H-29378	Capacitor—toothpick—80 mmfd.....	.55	H-29401	W-53A cabinet, stripped.....	
H-29384	Capacitor—toothpick—400 mmfd.....	.45	H-29402	W-53B cabinet, stripped.....	
H-29385	Capacitor—toothpick—770 mmfd.....	.45			
H-29382	Capacitor—flat type—0.0024 mfd.—400 volts.....	.50			
H-29386	Capacitor—flat type—0.005 mfd. and 0.025 mfd.—400 volts.....	.60			