



Detrola Radio & Telev. Corp.

Detrola Radio & Telev. Corp.			
	Model: 5W	Chassis:	Year: Pre November 1935
	Power:	Circuit:	IF:
	Tubes:		
	Bands:		
Resources			
Beitmans 1926-38 52			
Riders 6 (VI) DETROLA 6-7			
Riders 6 (VI) DETROLA 6-8			
Riders 6 (VI) DETROLA 6-9			

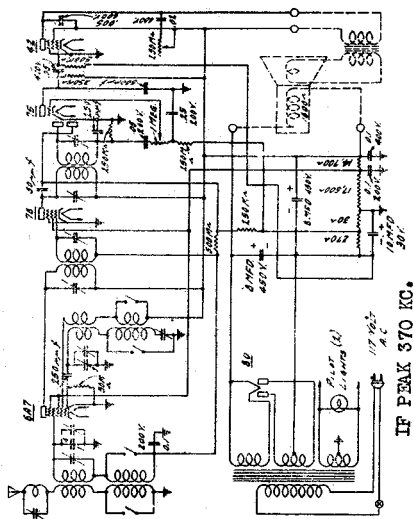


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MODEL 5X

Schematic, Voltage
Parts List

Stock No.	DESCRIPTION
563	.05 mf. 400 volt tubular condenser.
572	.1 mf. 200 volt tubular condenser.
575	.1 mf. 400 volt tubular condenser.
576	.02 mf. 400 volt tubular condenser.
578	10 mfd. 30 volt tubular electrolytic condenser.
579	.25 mf. 200 volt tubular condenser.
580	.05 mf. 200 volt tubular condenser.
581	.005 mf. 500 volt tubular condenser.
588	500 mmf. mica condenser, type "W".
589	50 mmf. mica condenser, type "W".
590	250 mmf. mica condenser, type "W".
602	250,000 ohm carbon resistor, 1/5 watt.
615	500,000 ohm carbon resistor, 1/5 watt.
631	50,000 ohm carbon resistor, 1/5 watt.
922	Candohm resistor (per dvgr.)
934	Attachment cord
1013	Power transformer
1017	Padder condenser, 500 mmf.
1028	6-prong tube socket.
1034	6" dynamic speaker.
1168	Pilot light socket assembly
1199	Pointer
1404	7-prong tube socket, marked 6A7
1526	Bakelite knob
1527	Escutcheon plate
1571	Dual wave switch
1572	Volume control
1573	Tone control and A.C. switch.
1611	Midget trimmer condenser.
1624	Elect. condenser 3-8 mfd. 450 volt.
1625	Wave trap shield can
1626	2-gang variable condenser.
1629	Dial chart
1627	Cabinet
1646	1st I. F. transformer assembly
1647	2nd I. F. transformer assembly
1648	Oscillator coil assembly
1649	Short wave antenna coil
1540	Broadcast antenna coil assembly
1650	Wave trap
1640	8" dynamic speaker



Tube Number	Control Grid to Cathode	Screen to Cathode	Plate to Cathode	M. A. Plate	Tube Socket Voltage Rating or Filament Voltage
6A7	*1.75	92	225	4	6.3
OSC.	0	0	225	4	6.3
78-1. F.	*1.75	92	225	7	6.3
75-2nd Det.	*1.75	0	**110	.8	6.3
42-2nd Audio	***17	225	212	34	6.3
80-Rect.					

For Alignment, see Index

***Voltage from No. 1 terminal on voltage divider to ground using 250 volt scale.

**Voltage from plate to ground using 250 volt scale.

*Voltage from ground to second terminal on voltage divider using 10 volt scale.

The above voltage readings were taken with 1,000 ohm per volt Volt Meter.

The Detrola 5X is a 5 tube superheterodyne designed for receivers on frequencies from 540 to 1500 KC and from 5300 to 17,000 KC.

MODELS 5X, 6X
MODELS 5W, 6W
Alignment

DETROLA RADIO CORP.

Service Notes

MODELS 5X & 6X

I. F. ALIGNMENT

To align the intermediate transformer the test oscillator should be adjusted to 370 KC and coupled to the control grid of the first detector and adjust the trimmer condensers on the first and second intermediate transformers for maximum reading on the output meter.

R. F. ALIGNMENT

The R.F. circuits: (1) Set pointer on tuning chart to 1400 KC with band switch in the broadcasting position. (2) Adjust test oscillator to 1400 KC and connect to antenna terminal on chassis. (3) Adjust trimmer on tuning condenser for maximum reading. (4) Reset dial pointer on test oscillator to 600 KC. (5) Reset test oscillator to 600 KC. (6) Adjust 600 KC padding condenser for maximum reading moving tuning condenser back and forth slowly while making adjustment. (7) Reset dial pointer and test oscillator to 1400 KC and readjust trimmer on tuning condenser for maximum reading on output meter. (The 600 KC padding condenser is the right hand condenser mounted on the rear of the chassis.)

SHORT WAVE ALIGNMENT

(1) Set dial pointer on 10 MC and band switch on short wave position. (2) Adjust test oscillator to approximately 10 MC or for maximum reading on output meter. (3) Adjust 10 MC padding condenser mounting on top of chassis near turning condenser for a further increase reading on output meter. (The wave trap trimmer condenser is the left hand condenser on the rear of the chassis.)

WAVE TRAP ADJUSTMENT

(1) To adjust wave trap to prevent reception of commercial code signals from stations operating on or about 370 KC, connect test oscillator to antenna terminal on chassis. (2) Adjust test oscillator to 370 KC. (3) Adjust wave trap condenser mounted on right hand end of the chassis for minimum signal on output meter.

POWER SUPPLY:

The 6X is designed to operate on 110 volts A. C. or D. C. current. The Model 5-D-X may be supplied for operation on different sources of power supply; namely, 110 volts, 25 cycles; 110 volts, 60 cycles; and 200 volts, 60 cycles.

MODELS 5W & 6W

I. F. ALIGNMENT:

To align the intermediate transformer, the test oscillator should be adjusted to 370 K. C. and coupled to the control grid of the first detector and adjust the trimmer condensers on the first and second intermediate transformers for maximum reading on the output meter.

R. F. ALIGNMENT:

To adjust the R. F. circuits: (1) Set pointer on tuning chart to 1400 K. C. with band switch in the broadcasting position. (2) Adjust test oscillator to 1400 K. C. and connect to antenna lead on chassis. (3) Adjust trimmer on the oscillator section of the tuning condenser for maximum reading. (4) Reset dial pointer on receiver and test oscillator to 600 K. C. (5) Adjust 600 K. C. padding condenser for maximum reading moving tuning condenser back and forth slowly while making adjustment (the 600 K. C. padding condenser is mounted on the base at the left of the tuning condenser). (6) Reset oscillator and tuning point on the receiver to 1400 K. C. and readjust trimmer on oscillator section of tuning condenser for maximum reading. (7) Reset dial pointer on receiver and test oscillator to 15 megacycles. (8) Set band change switch in the right hand position. (9) Adjust trimmer on first section of tuning condenser for maximum reading. (10) Reset dial pointer on receiver and test oscillator to 3.6 megacycles. (11) Set band change switch in left hand position. (12) Adjust 3.6 megacycycle trimmer condenser for maximum reading (the 3.6 megacycycle trimmer is mounted under the chassis and directly in front of the band change switch). (13) Reset dial pointer on receiver and test oscillator to 1400 K. C. (14) Set band change switch in broadcasting position and adjust 1400 K. C. trimmer for maximum reading (the 1400 K. C. trimmer is mounted under the chassis directly over the antenna coil).

WAVE TRAP ADJUSTMENT:

This receiver is designed with a wave trap to prevent interference from commercial code stations operating on or about 370 K. C. To adjust the wave trap, set test oscillator on 370 K. C. and connect to antenna lead on chassis and adjust wave trap trimmer condenser for minimum signal on the output meter (the wave trap is mounted on the rear left end of the chassis).

POWER SUPPLY:

The 5-W is designed for operation on different sources of power supply; namely, 110 volts, 25 cycles; 110 volts, 60 cycles, and 220 volts, 60 cycles.