

Detrola Radio & Telev. Corp.

Model: 5D

Chassis:

Year: Pre November 1935

Power:

Circuit:

IF:

Tubes:

Bands:

Resources

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MODEL 5D
Alignment
Parts List

SERVICE NOTES

for

Detrola 5-D Dual-Band Receiver

The Detrola 5-D is a five tube superheterodyne, dual-wave receiver covering broadcast frequencies of 550 to 1500 kilocycles and short-wave frequencies of 1.5 to 4.75 megacycles.

It employs the following tubes: Type 78, first detector; type 6F7, intermediate stage and oscillator (the pentode section being used for the intermediate stage, and the triode for the oscillator); type 75, delayed AVC, second detector, and first audio (one diode being used for the AVC and the other for the detector, triode being used for the first audio stage); type 42, final amplifier; type 80, rectifier.

R. F. and I. F. ALIGNMENT

The R. F. and I. F. circuits are properly aligned at the factory with a crystal control oscillator and should require little or no attention. Should it become necessary, however, to check the alignment, an output meter and a calibrated oscillator will be necessary. The automatic volume control in the receiver will defeat the purpose of the output meter unless the following precautions are taken:

I. F. ALIGNMENT—To align the intermediate frequency transformers (1) adjust test oscillator to 455 kilocycles and couple to the control grid of first

detector (reduce coupling so that only small deflection is obtained on output meter with volume control in the maximum position). (2) Adjust I. F. trimmers for maximum reading on output meter.

R. F. ALIGNMENT—To align the R. F. circuits (1) set the pointer on the tuning chart to 1400 kilocycles and adjust test oscillator to the 1400 kilocycles. (2) Connect oscillator to antenna connection of chassis, reducing coupling as outlined in I. F. adjustments and adjust trimmer on front of chassis for maximum reading. The above procedure should be repeated at 600 kilocycles adjusting **ONLY THE LOW FREQUENCY TRIMMER ON TOP OF CHASSIS**.

The short-wave band may be aligned by setting the test oscillator on 1400 kilocycles and using the 2800 kilocycles harmonic and setting the pointer on the tuning chart to approximately 2.8 megacycles and adjusting trimmers on tuning condenser for maximum reading.

For a more detailed explanation concerning the operation of the delayed automatic volume control used in this receiver and for further service suggestions, refer to the service notes of the Detrola 7-A.

REPLACEMENT PARTS MODEL 5-D

Stock No.	DESCRIPTION	List Price	Stock No.	DESCRIPTION	List Price
532	Knobs	\$0.10	937	6 prong socket No. 42	.10
563	.05 mfd 400 volt condenser	.15	939	6 prong socket No. 78	.10
568	.01 mfd 400 volt condenser	.15	993	Oscillator coil shield	.10
572	.1 mfd 200 volt condenser	.15	997	Tube shield base	.15
575	.1 mfd 400 volt condenser	.20	1013	Power transformer	2.90
576	.02 mfd 400 volt condenser	.15	1014	8-8 mfd 450 volt filter condenser	2.05
579	.25 mfd 200 volt condenser	.20	1015	Short wave switch	.80
580	.05 mfd 200 volt condenser	.15	1016	.00002 padder condenser	.30
581	.005 mfd 600 volt condenser	.15	1017	.0005 padder condenser	.40
589	50 mmf mica condenser	.15	1018	1st IF transformer	1.60
590	.00025 mica condenser	.15	1019	2nd IF transformer	1.50
595	10 mfd 35 volt condenser	.65	1022	Cabinet	4.60
602	250,000 ohm resistor, 1/2 watt	.15	1027	4 prong socket No. 6F7	.10
612	75,000 ohm resistor, 1/2 watt	.15	1028	6 prong socket No. 75	.10
615	500,000 ohm resistor	.15	1034	Speaker	6.90
631	50,000 ohm resistor	.15	1038	Pyralin diffuser—blue	.10
791	Tube shield	.10	1042	Escutcheon plate	.30
912	Station selector dial	.25	1052	Candohm resistor, 1000 ohms	.20
919	Volume control	.70	1054	935 mmf mica condenser	.20
921	Tone control with A.C. switch	.90	1079	Candohm resistor, 350 ohms	.20
922	Candohm resistor, 32,500 ohms	.65	1124	Antenna coil	.50
926	Tuning condenser	2.20	1126	Oscillator coil	.50
934	Power cord	.30	1128	Pyralin diffuser—red	.10
936	4 prong socket No. 80	.10	1168	Pilot light socket	.15