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# SERVICE BULLETIN

No. 28

MODEL 57V: 5-Valve Broadcast Receiver for Vibrator Operation.

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RADIO CORPORATION  
OF NEW ZEALAND LTD.

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*Model 57V*

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1. **GENERAL:** This model has been primarily designed for operation in conjunction with a vibrator power unit, although battery power may be utilised if desired. Two stages of intermediate frequency at 456 kilocycles per second are incorporated, giving good selectivity with high gain. The output valve is a battery pentode. Bias is obtained from the filament network, 2-volt valves being used in series groups on a 6-volt circuit. The battery drain when used in conjunction with a type VU-1 vibrator power unit is approximately 1 ampere without pilots, the latter being controlled by a special switch provided for the purpose, independent of the power supply to the receiver.

## 2. ELECTRICAL SPECIFICATIONS:

Filament supply .....	6 volts, approx. 180 mA. (without pilots).	
High tension supply .....	135 volts, approx. 19 mA.	
Undistorted power output .....	Approx. 300 mW.	
Valves used .....	Frequency changer .....	1C6
	1st Intermed. frequency amp. ....	1A4
	2nd Intermed. frequency amp. ....	1A4
	Detector-amplifier .....	1B5
	Output pentode .....	1F4
Intermediate Frequency .....		456 kc/sec.
Broadcast Band .....		550-1500 kc/sec.
Line-up frequencies .....	Intermediate frequency .....	456 kc/sec.
	Broadcast band .....	600 and 1400 kc/sec.

## 3. VOLTAGE TESTS:

Total high-tension voltage .....	135 volts D.C.
Filament battery voltage .....	6 volts D.C.
Voltage across each filament .....	Approx. 2 volts D.C.
Other voltages to ground, using 1000 ohm per volt meter on 500 volt range except where otherwise stated:—	

Valve.	Function.	Plate.	Osc. Plate.*	Screen.	Control Grid.
1C6	Freq. changer	135	90	50*	—
1A4	1st I.F. amp.	135	—	50*	—
1A4	2nd I.F. amp.	135	—	50*	—
1B5	Det.-audio	65	—	—	—
1F4	Pentode	130	—	135	—

\* 100 volt range.

## 4. RESISTANCE TESTS:

Coil.	Where Measured.	Resistance in Ohms.
Speaker input tran.	Speaker socket	Approx. 600 (Total)
1st I.F. primary	See Circuit	Approx. 18
1st I.F. secondary	See Circuit	Approx. 18
2nd I.F. primary	See Circuit	Approx. 18
2nd I.F. secondary	See Circuit	Approx. 18
Broadcast ant. primary	4 to 3 of Coil R 35	Approx. 15
Broadcast ant. secondary	1 to 2 of Coil R 35	Approx. 10
Broadcast osc. primary	3 to 4 of Coil R 34	Approx. 2
Broadcast osc. secondary	1 to 2 of Coil R 34	Approx. 4

5. **LINE-UP PROCEDURE:** This is fully explained in Service Bulletin No. 12, "Standard Line-up Procedure for Multi-wave Receivers," a copy of which is obtainable on application to the Engineering Department if desired.

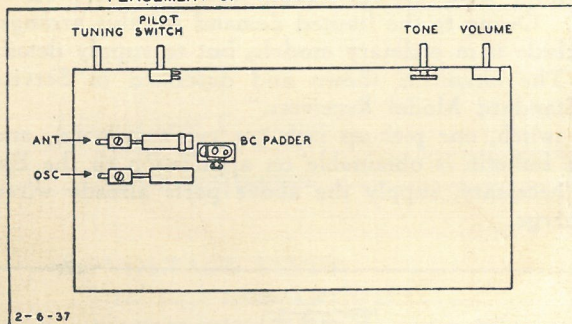






# MODEL 57V

## PLACEMENT OF TRIMMERS AND PADDERS



# MODEL 57V

