



### MODEL 55

#### DESCRIPTION

The Model 55 is a five tube AC-DC superheterodyne receiver covering the Standard Broadcast band.

#### FEATURES INCLUDE

Modern design plastic cabinet in colours, Built-in loop, Automatic Volume Control, Ultra modern midget tubes with Beam Output tube, Pilot Lamp.

#### TUNING RANGE

550 to 1600 Kilocycles.

#### TUBES AND THEIR FUNCTIONS

12BE6 Mixer, Oscillator.  
12BA6 Intermediate Frequency Amplifier.  
12AT6 Detector, A.V.C. 1st Audio.  
50B5 Beam Power Output tube.  
35W4 Rectifier.  
No. 47 Pilot Lamp.

#### ALIGNMENT PROCEDURE

The I.F. and B.C. circuits in this receiver have been accurately adjusted at the factory, and any further adjustments should not be necessary. However, if any adjustments are necessary the following procedure is to be carried out utilizing a modulated Signal Generator and Output Meter.

##### 1. TUNING I.F. AMPLIFIER TO 455 KILOCYCLES

- (a) Connect the output from the Signal Generator through a 200 mmfd. mica condenser to antenna wire on the rear of the loop.
- (b) Connect the Output Meter across the speaker voice coil.

- (c) Turn the volume control to its maximum clockwise position and the tuning condenser so that the plates are completely in mesh.
- (d) Adjust Signal Generator to a setting of 455 Kilocycles.
- (e) Adjust iron cores located at the top and bottom of 2nd I.F. Transformer (T2) until maximum deflection is obtained on the Output Meter.
- (f) Adjust iron cores located at the top and bottom of 1st I.F. Transformer (T1) until maximum deflection is obtained on the Output Meter.

N.B. After each adjustment has been made it may be necessary to re-adjust the Signal Generator to give reasonable output.

##### 2. BROADCAST BAND ALIGNMENT

- (a) Leave the Generator and Output Meter connected as described in the tuning of the I.F. amplifier.
- (b) Adjust the Signal Generator to 1500 K.C. Set dial to 1500 K.C.
- (c) Adjust the oscillator trimmer on the tuning condenser until maximum deflection is obtained on the Output Meter.
- (d) Now adjust the mixer trimmer on the tuning condenser until maximum deflection is obtained.
- (e) If adjustment should be necessary at the low frequency end of the broadcast band, bend the slotted sections on the mixer section of the tuning condenser for maximum output.

## PARTS LIST

CODE	PART NO.	DESCRIPTION
R 1.	27-16	22,000 ohms. 1/2 w. Resistor.
R 2.		4.7 Meg. " 1/2 w. "
R 3.		1 " " 1/2 w. "
R 4.		2.2 " " 1/2 w. "
R 5.	27-16.	500,000 " Volume Control and Switch.
R 6.		10 Meg. " 1/2 w. Resistor.
R 7.		330,000 " 1/2 w. "
R 8.		470,000 " 1/2 w. "
R 9.		150 " 1/2 w. "
R10.		2200 " 1/2 w. "
R11.		150 " 1/2 w. "
R12.		22 " 1/2 w. "
C 1.		4.7 mmfd. mica condenser.
C 2.		100 " " "
C 3.		50 " " "
C 4.		.05 mfd. paper " 200 v.
C 5.		.05 " " " 200 v.
C 6.		.05 " " " 200 v.
C 7.		.001 " " " 600 v.
C 8.		220 mmfd. mica "
C 9.		.02 mfd. paper " 600 v.
C10.		.025 " " " 600 v.
C11.		.01 " " " 600 v.
C12A.	18-15.	60 " " " 150 v.
C12B.	18-15.	30 " " " 150 v.
C13A.	15-12.	( Variable condenser (antenna section).
C13B.		( " " (oscillator section).
C14A.		( Trimmer (Antenna section 1500 K.C.) on C14A.
C14B.		( " (Oscillator section 1500 K.C.) on C14B.
S1.		Switch S.P.S.T. (Part of 27-16).
S	24-13.	Speaker "P.M." — 4" (voice coil impedance 3.2 ohms).

## PARTS LIST

CODE	PART NO.	DESCRIPTION
T1.	29-14.	Transformer I.F. Input.
T2.	29-14.	“ I.F. Output.
T3.	23-18.	“ output.
L1.	29-15.	Oscillator coil.
L2.	40-42.	Loop antenna.
R13. } C15. } C16. }	18-16.	Capristor.
	48-12.	Pilot light socket assembly.
	12-16.	Miniature socket.
	45-15.	Pointer.
	55-14-M.	Cabinet — Maroon.
	55-14-W.	“ — Walnut.
	55-14-I.	“ — Ivory.
	42-13.	Baffle.
	28-15.	Clips for baffle.
	57-11.	Grill cloth.
	51-17-1.	Knob — Mottled cream.
	51-17-2.	“ — Dark tan.
	51-17-3.	“ — Ivory.
	43-13-1.	Dial — Walnut.
	43-13-2.	“ — Ivory.
	43-13-3.	“ — Maroon.
	25-33.	Trimount stud for dial.
	1-74.	Base plate.
	40-43.	Tuning shaft.
	47-14.	Tuning shaft spring.
	56-13.	Dial window.
	25-32.	Trimount stud for dial window.
	40-41.	Dial back assembly.
	47-13.	Spring for dial window.
	47-12.	Spring for dial.
	11-10.	Pilot light Mazda No. 47 6-8 volt.
	2-11.	Dial Cord Pulley.

