

SERVICE BULLETIN



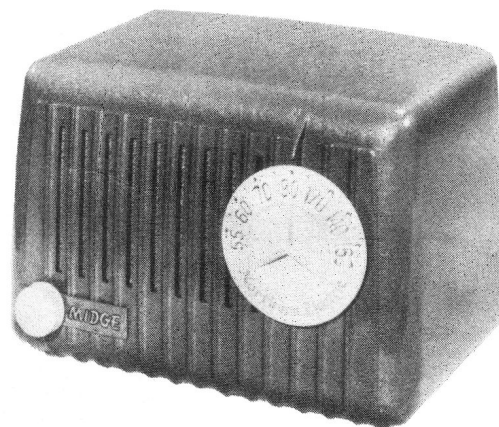
Northern Electric RADIO

MODEL 5308

5-Tube Mantel Model

AC Universal Superheterodyne

SERVICE INFORMATION



SPECIFICATIONS

GENERAL:

5-Tube Superheterodyne A.C. Universal Radio Receiver housed in table model moulded plastic cabinet available in six colours.

Green	Ivory
Brown	Ebony
Red	Yellow

1. FREQUENCY RANGE

Broadcast band -- 530 to 1600 KC.

2. INTERMEDIATE FREQUENCY

455 K.C.

3. TUBES

Type	Function
12BE6	Converter
12BA6	I.F. Amplifier
12AT6	Detector, A.V.C. and Audio Amplifier
50B5	Audio Output Amplifier
35W4	Rectifier

4. A.V.C.

On 12BE6 Converter and 12BA6 I.F. Amplifier

5. POWER SUPPLY

110-125 Volts, 25-60 Cycles -- A.C.
110-125 Volts D.C. (Reverse plug if set does not operate when plug is connected.)

6. POWER CONSUMPTION

35 Watts

7. AUDIO POWER OUTPUT

1.5 Watts

8. ANTENNA

Built-in loop renders an external antenna unnecessary in most installations. Should one be required, connect it to the brown wire at the rear of the set.

9. GROUND

Ground must never be connected to this receiver.

10. AUDIO SYSTEM

Audio portion of 12AT6 resistance -- capacity coupled to 50B5.

11. LOUDSPEAKER

4" Permanent Magnet.

12. CONTROLS

Left - Volume Control and ON-OFF Switch.
Right - Tuning Control.

13. DIMENSIONS

Chassis, Assembled (excluding shafts).

Length 8½". Width 5¼"

Height 5½"

Cabinet, Overall (including knobs)

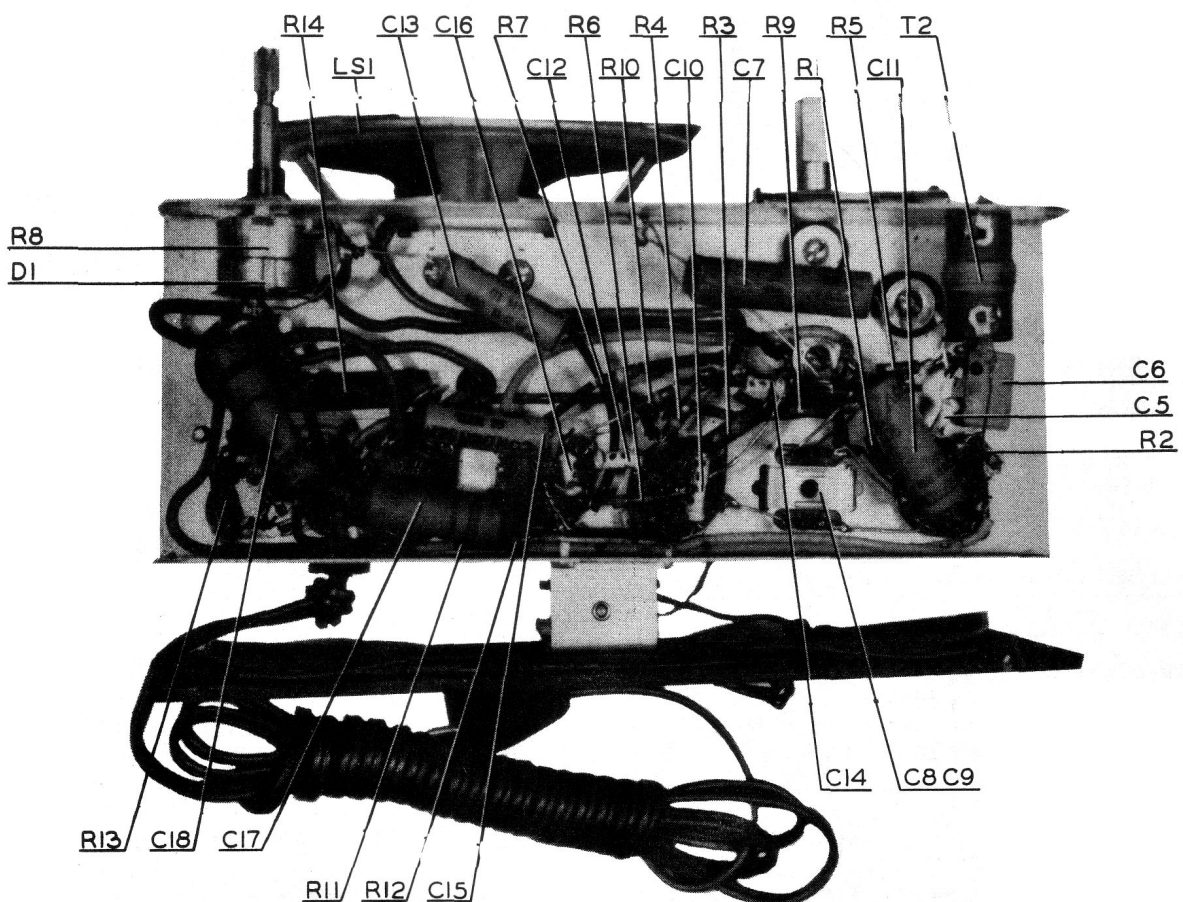
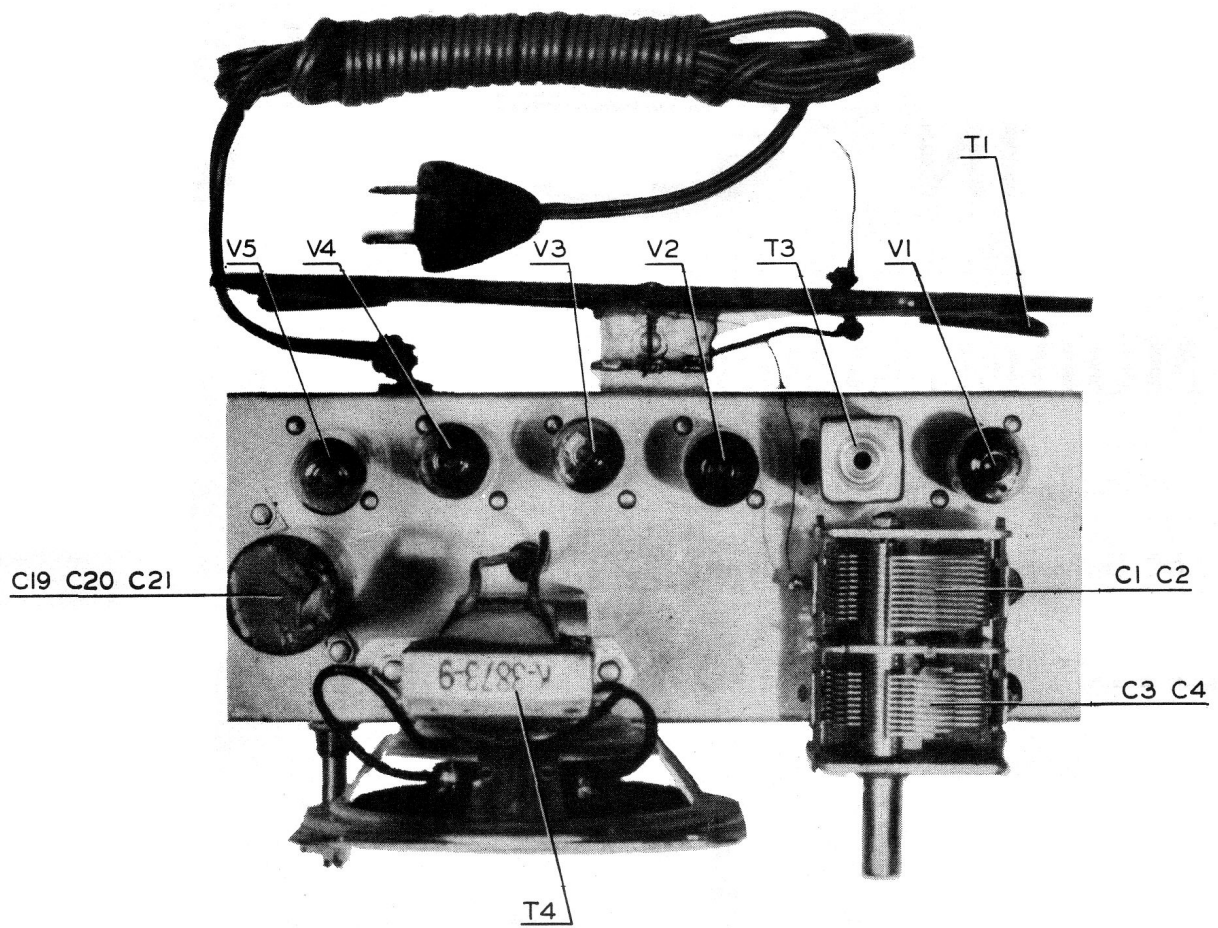
Length 8¾", Width 6"

Height 6"

Bulletin RS 121 - June, 1949

Mailing Classifications 12.3 & 28.17

Price - 25¢



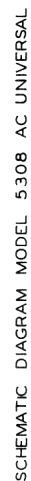
ALIGNMENT

Alignment procedure should be carried out according to the following table and in the order shown.

Alignment Frequency	Dummy Antenna	Receiver Connection	Items to be adjusted for maximum output and their location.
I.F. 455 KC	.1 Mfd (Paper)	Antenna Section Gang	I.F. slugs in L1 and L2 in IF Transformer T3.(tuning gang open)
B.C. 1400 KC	100 Mmf (Mica)	Antenna Wire	(a) Oscillator trimmers on gang, C4. (b) Antenna trimmer on gang C2.

Replacement Parts

Item	Description	Part No.	Item	Description	Part No.
C1	Capacitor,Variable R.F.355 uuf	R17294	R8	Volume Control & Switch .5 meg.	R17307
C2	Capacitor,Trimmer 17 uuf Part of	R17294	R9	Resistor, 1.0 meg. 1/2 W	K10000C-105
C3	Capacitor,Variable Osc.162 uuf	R17294	R10	Resistor,270000 ohm 1/2 W	K10000B-274
C4	Capacitor,Trimmer 17 uuf Part of	R17294	R11	Resistor,470000 ohm 1/2 W	K10000C-474
C5	Capacitor,Ceramic 330 uuf 500 V	K10397C-331	R12	Resistor,150 ohm 1/2 W	K10003B-151
C6	Capacitor,Ceramic 47 uuf 500 V	K10397B-470	R13	Resistor,15 ohm 1/2 W	K10003C-150
C7	Capacitor,Paper .02 uf 600 V	K10128-203	R14	Resistor,1000 ohm 2 W	K10002B-102
C8	Capacitor,Part of	R17296-1	T1	Loop Back Assembly	R16448-25
C9	Capacitor,Part of	R17296-1	T2	Oscillator Coil	R17298
C10	Capacitor,Ceramic 1000 uuf 350 V	K10397C-102	T3	Transformer IF	R17296-1
C11	Capacitor,Paper .05 uf 600 V	K10128-503	T4	Transformer Output	K3873-9
C12	Capacitor,Ceramic 100 uuf 500 V	K10397C-101	LS1	Loudspeaker	R16448-37
C13	Capacitor,Paper .01 uf 600 V	K10128-103	V1	Tube,Type 12BE6	
C14	Capacitor,Ceramic 330 uuf 500 V	K10397C-331	V2	Tube,Type 12BA6	
C15	Capacitor,Paper .01 uf 600 V	K10128-103	V3	Tube,Type 12AT6	
C16	Capacitor,Ceramic 330 uuf 500 V	K10397C-331	V4	Tube,Type 50B5	
C17	Capacitor,Paper .02 uf 600 V	K10128-203	V5	Tube,Type 35W4	
C18	Capacitor,Paper .02 uf 600 V	K10128-203	D1	Switch,On-Off Part of	R17307
C19	Capacitor,Electrolytic 20 uf 150 V	R17295-2		Socket Wafer	K10405-2
C20	Capacitor,Electrolytic 40 uf 150 V			Knob Assembly Tuning	R16448-30
	Part of	R17295-2		Knob Volume	R17301
C21	Capacitor,Electrolytic 40 uf 25 V			Cabinet Assembly, Ebony	R16448-31C
	Part of	R17295-2		Cabinet Assembly, Brown	R16448-31D
R1	Resistor,2.7 meg. 1/2 W	K10000B-275		Cabinet Assembly, Red	R16448-31E
R2	Resistor,22000 ohm 1/2 W	K10000C-223		Cabinet Assembly, Yellow	R16448-31F
R3	Resistor,68 ohm 1/2 W	K10003B-680		Cabinet Assembly, Green	R16448-31G
R4	Resistor,6800 ohm 1/2 W	K10000A-682		Cabinet Assembly, Ivory	R16448-31H
R5	Resistor,1.5 meg. 1/2 W	K10000C-155		A.C. Cord & Plug Assembly	K10319-31
R6	Resistor,8.2 meg. 1/2 W	K10000B-825			
R7	Resistor,100000 ohm 1/2 W	K10000C-104			



HALIFAX	MONCTON	QUEBEC	CHICOUTIMI	THREE RIVERS	SHERBROOKE	MONTREAL	OTTAWA	VAL D'OR
KINGSTON	TORONTO	HAMILTON	LONDON	WINDSOR	KIRKLAND LAKE	TIMMINS	SUDBURY	
FORT WILLIAM	WINNIPEG	REGINA	LETHBRIDGE	CALGARY	EDMONTON	VERNON	VANCOUVER	VICTORIA