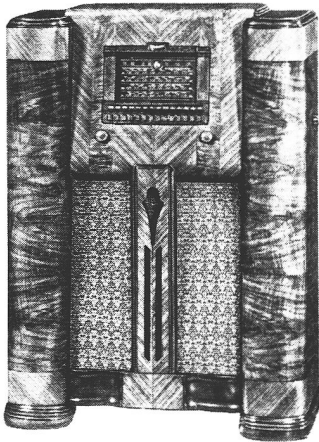


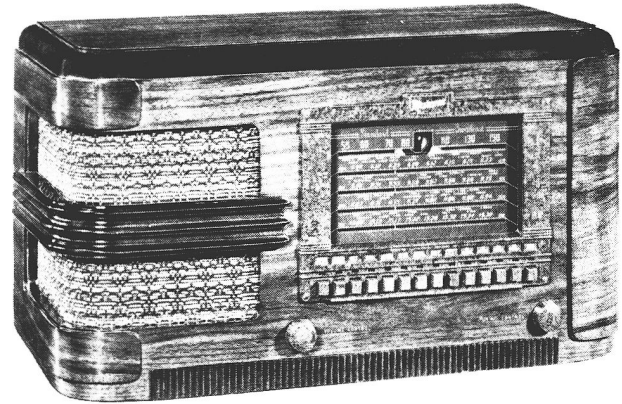
CANADIAN MARCONI COMPANY

TECHNICAL DATA AND PARTS LIST

FOR MODELS 187 & 188



MODEL 188



MODEL 187

DESCRIPTION:

Model 187 Mantel, Model 188 Console, 7-tube A.C. operated short and long wave receivers, incorporating the following features:-

Full electrical bandspread on all short-wave bands, adjustable antenna wave trap, built-in loop antenna, full A.V.C. on R.F. and I.F. tubes and temperature compensated for oscillator drift.

Terminals are provided to connect an electrical phonograph pickup. These same terminals may also be used for F.M. or Television sound input.

FREQUENCY COVERAGE:

Broadcast Band.....	539-1530 K.C.
49 Metre Band.....	approx. 5950-6250 K.C.
31 Metre Band.....	" 9450-9750 K.C.
25 Metre Band.....	" 11650-11950 K.C.
19 Metre Band.....	" 15050-15400 K.C.

POWER OUTPUT:

Undistorted.....	3.5 Watts
Maximum.....	5.0 Watts

POWER RATING:

115 Volts 60 Cycles.....	76 Watts
115 Volts 25 Cycles.....	79 Watts

RADIATRON

Function

RVC 6SA7.....	Mixer-Oscillator
RVC 6SK7.....	I.F. Amplifier
RVC 6SQ7.....	Diode Det., A.V.C. & 1st A.F. Amp.
RVC 6F6G.....	Parallel Pentode Output
RVC 6F6G.....	Parallel Pentode Output
RVC 5Y4G.....	Full Wave Rectifier
RVC 6U5.....	Cathode Ray Tuning Indicator

LOUDSPEAKER DATA

Model 187

Model 188

Cone.....	6" Dynamic	12" Dynamic
Voice Coil Impedance @ 400		
C.P.S.....	3.2 Ohms	2.7 Ohms
Voice Coil Resistance.....	3.1 Ohms	2.2 Ohms
Field Resistance (Hot).....	650 Ohms	650 Ohms
Field Current.....	94 M.A.	94 M.A.
Output Transformer (Primary		
Res.).....	250 Ohms	175 Ohms

AUTOMATIC PUSH-BUTTON CONTROLS:

This receiver is fitted with fourteen push-button controls, the functions of which are as follows:-

TONE CONTROLS:

The two buttons on the extreme left marked "Medium Tone" & "Low Tone" permit four different tone combinations which are obtained as follows:-

High Tone.....	Both Buttons out
Medium Tone.....	Depress Button marked "Medium Tone"
Low Tone.....	Depress Button marked "Low Tone"
Extra Bass Tone.....	Depress Both Tone Buttons

WAVE BAND SWITCH:

The following wave bands may be selected by depressing the button with the corresponding marking:-

Broadcast	539-1530 K.C.
49 Metres.....	5950-6250 K.C.
31 Metres.....	9450-9750 K.C.
25 Metres.....	11650-11950 K.C.
19 Metres.....	15050-15400 K.C.

ON-OFF SWITCH:

The receiver will switch on when any of the Wave-Band or Automatic Station Buttons are depressed. To switch receiver "Off", depress extreme right hand button marked "OFF".

AUTOMATIC STATION SELECTOR:

Six-button, permeability tuned type, covering the following frequencies:-

3rd Button tunes stations between -----	540-800 K.C.
4th Button tunes stations between -----	540-800 K.C.
5th Button tunes stations between -----	650-1000 K.C.
6th Button tunes stations between -----	650-1000 K.C.
7th Button tunes stations between -----	900-1500 K.C.
8th Button tunes stations between -----	900-1500 K.C.

MODELS 187/188

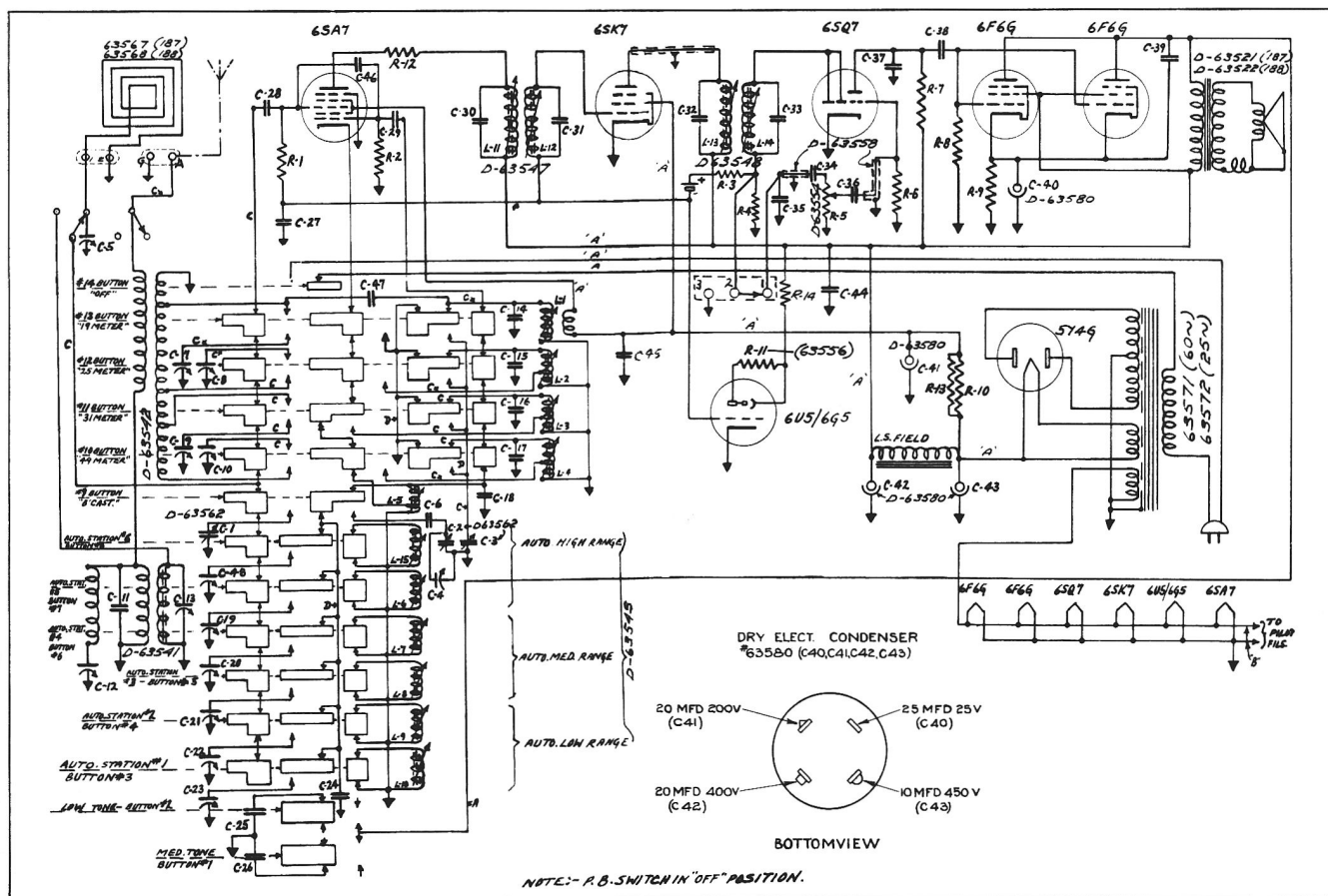


DIAGRAM OF CONNECTIONS, MODELS 187, 188

ALIGNMENT PROCEDURE

ANT. LOOP SW. POS.	BAND SW SETTING	CONNECT SG OUTPUT TO	INPUT FREQUENCY	DIAL SETTING	DRUM IND.	ADJUST	CIRCUIT RESONATED	REMARKS
	# BC	**C.G. 6SA7	462.5 KC			L9, L8, L7, L6	IF Input & Output	Max. Output
Ant.	* BC	A & G	1400 KC	1400 KC	155.4	C4	BC Osc.	Resonate
Ant.	BC	A & G	1400 KC	1400 KC	155.4	C13	BC R.F.	Max. Output
Ant.	BC	A & G	580 KC	580 KC	19	L5	BC Osc.	Rock Gang
Loop	BC	A & G	1400 KC	1400 KC	155.4	C5	Ant.	Max. Output
Ant.	49M.	A & G	6.1 MC	6.1 MC	87.2	L4	49M. Osc.	Resonate
Ant.	49M.	A & G	6.1 MC	6.1 MC	87.2	C10	49M. R.F.	Rock Gang
Ant.	31M.	A & G	9.6 MC	9.6 MC	86.5	L3	31M. Osc.	Resonate
Ant.	31M.	A & G	9.6 MC	9.6 MC	86.5	C9	31M. R.F.	Rock Gang
Ant.	25M.	A & G	11.8 MC	11.8 MC	85	L2	25M. Osc.	Resonate
Ant.	25M.	A & G	11.8 MC	11.8 MC	85	C8	25M. R.F.	Rock Gang
Ant.	19M.	A & G	15.2 MC	15.2 MC	69.5	L1	19M. Osc.	Resonate
Ant.	19M.	A & G	15.2 MC	15.2 MC	69.5	C7	19M. R.F.	Rock Gang

I.F. ALIGNMENT: Short osc. section of gang capacitor through 0.1 Mfd. For oscillograph alignment, connect oscillograph input across R4. Adjust for overlapping double image of maximum amplitude.

* Before proceeding with R.F. Alignment, see that dial pointer is set over last graduation mark at low frequency end. (Gang to be at maximum capacity).

** Lug on R.F. section of gang forms a convenient point of connection.

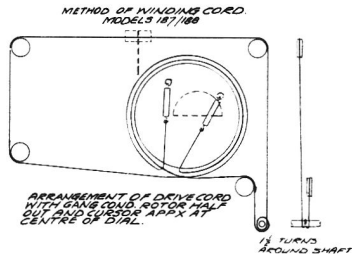
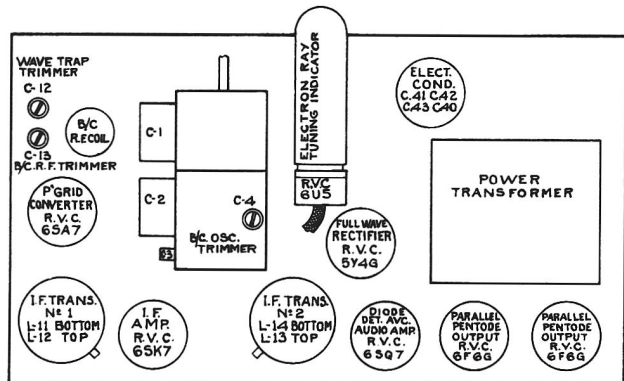
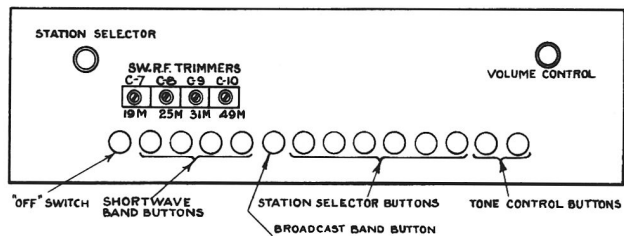
If the chassis is realigned in the cabinet, the above dial settings may be followed. If, however, the chassis is removed, the dial scale is left attached to the cabinet. In order to guide servicemen working under the latter circumstances, a scale, calibrated in 180 degrees, has been attached to the back of the dial drum. A pointer should be improvised from a piece of stiff wire and with the gang capacitor set at maximum capacity (plates fully meshed) the improvised pointer should be set to "0" degrees. The Drum indicator readings shown in the alignment chart can then be followed. After chassis has been realigned and installed in cabinet set Dial Pointer to last calibration mark on low frequency end with gang capacitor at maximum and clip same to drive cord.

CAPACITORS

RESISTORS

REF.	DESCRIPTION	PART NO.	LIST PRICE
C1	525 Mmf. (Eff)	63562	\$3.50
C2	525 Mmf. (Eff)		
C3	15 Mmf. (Eff)		
C4	Compensator for C2		
C5	3-30 Mmf. Adjustable	63576	.20
C6	625 Mmf. + 5% Moulded Mica		.30
C7	2-20 Mmf.	63578	.80
C8	2-20 Mmf.		
C9	2-20 Mmf.		
C10	2-20 Mmf.		
C11	50 Mmf. + 10% Moulded Mica		.30
C12	4-70 Mmf.	63577	.40
C13	4-70 Mmf.		
C14	275 Mmf. + 5% Temp.Comp.Type		
C15	260 Mmf. + 5% Temp.Comp.Type		
C16	205 Mmf. + 5% Temp.Comp.Type		.30
C17	125 Mmf. + 5% Temp.Comp.Type		.30
C18	50 Mmf. + 10% Moulded Mica		.30
*C19	12-200 Mmf.	63579	1.20
C20	60-425 Mmf.		
C21	60-425 Mmf.		
C22	75-550 Mmf.		
C23	75-550 Mmf.		
C24	455 Mmf. + 5% Temp.Comp.Type		.30
C25	0.07 Mfd. 600 V. Rolled Paper		.40
C26	0.02 Mfd. 600 V. Rolled Paper		.40
C27	0.1 Mfd. 200 V. Rolled Paper		.20
C28	250 Mmf. + 10% Moulded Mica		.30
C29	100 Mmf. + 10% Moulded Mica		.30
C30	220 Mmf. + 3% Moulded Mica		.30
C31	100 Mmf. + 3% Moulded Mica		.30
C32	100 Mmf. + 3% Moulded Mica		.30
C33	220 Mmf. + 3% Moulded Mica		.30
C34	0.02 Mfd. 600 V. Rolled Paper		.40
C35	150 Mmf. + 10% Moulded Mica		.30
C36	0.05 Mfd. 600 V. Rolled Paper		.40
C37	250 Mmf. + 20% Moulded Mica		.30
C38	0.02 Mfd. 600 V. Rolled Paper		.40
C39	0.01 Mfd. 600 V. Rolled Paper		.40
C40	25 Mfd. 25 WV D.E.)	63580	2.00
C41	20 Mfd. 200 WV D.E.) Dry		
C42	20 Mfd. 400 WV D.E.) Elect.		
C43	10 Mfd. 450 WV D.E.)		
C44	0.1 Mfd. 400 V. Rolled Paper		.30
C45	0.1 Mfd. 400 V. Rolled Paper		.30
C46	1.5 Mmf. Capacity Link (+ 1/4 Mmf.)	63581	.20
C47	4.25 Mmf. Capacity Link (+ 1/4 Mmf.)	63582	.20
*C48	12-200 Mmf. Auto.R.F. Trimmer Assy.	63579	1.20

REF.	DESCRIPTION	Rating	PART NO.	LIST PRICE
R1	1 Megohm	1/2 Watt		\$.25
R2	20,000 Ohms	1/2 Watt		.25
R3	1 Megohm	1/2 Watt		.25
R4	450,000 Ohms	1/2 Watt		.25
R5	2.5 Megohms	Vol. Control	63554	1.20
R6	10 Megohms	1/2 Watt		.25
R7	250,000 Ohms	1/2 Watt		.25
R8	500,000 Ohms	1/2 Watt		.25
R9	320 Ohms	2 Watts		.40
R10	35,000 Ohms	2 Watts		.40
R11	500,000 Ohms	1/2 Watt (Located in 6U5 Socket)		.25
R12	50 Ohms	1/2 Watt		.25
R13	35,000 Ohms	2 Watts		.40
R14	50,000 Ohms	1/2 Watt		.25



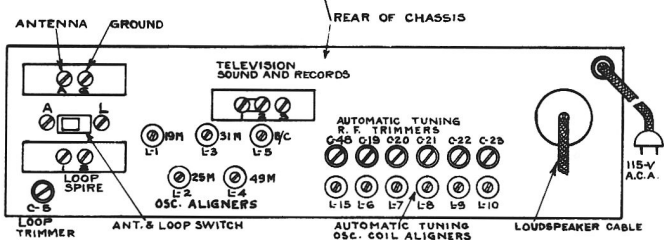
METHOD OF WINDING CORD VOLTAGE READINGS SOCKET PINS TO CHASSIS

TUBE	1	2	3	4	5	6	7	8
6SA7	0	0	250	100	-6	0	6.3 AC	0
6SK7	0	0	0	0	0	100	6.3 AC	250
6SQ7	0	0	0	0	0	120	6.3 AC	0
6F6G	0	0	250	260	0	-	6.3 AC	17
6F6G	0	0	250	260	0	-	6.3 AC	17
5Y4G	-	*	320 AC	-	320 AC	-	300	300

* Used as anchoring lug only.

Above readings are approximate and may vary depending on line voltage and resistance of voltmeter used.

Readings are taken on lowest scale of meter that will accommodate the voltage under test, with receiver switched to broadcast band, volume and tone controls at maximum and gang capacitor at maximum.



MODELS 187/188

PARTS LIST

PART NO.	DESCRIPTION	LIST PRICE	PART NO.	DESCRIPTION	LIST PRICE
INDUCTORS:			DIAL & DRIVE ASSY. (Cont'd)		
63541	Coil R.F. (Broadcast).....	\$1.00	63683	Clip for Dial Mounting.....2 for	.05
63452	Coil R.F. (Short-Wave).....	1.50	63561	Rail for Cursor.....	.40
63544	Coil Osc. Auto-Tuning (540-800 K.C.)	.80	63564	Cursor (Pointer).....	.40
63545	Coil Osc. Auto-Tuning(650-1000 K.C.)	.80	63563	Drum Assy.....	.80
63546	Coil Osc. Auto-Tuning(900-1500 K.C.)	.80	63574	Drive Spindle.....	.25
63547	Transformer I.F. #1.....	1.50	69396	Bracket for Drive Spindle.....	.20
63548	Transformer I.F. #2.....	1.50	68584	Spring Washer for Drive Spindle.....	.05
63549	Wave Trap Assy.....	1.00	68065	Cotter Pin for Drive Spindle.....2 for	.05
63571	Transformer Power 60 Cycle.....	6.00	65179	Spring (Drive Cord Tension).....	.10
63572	Transformer Power 25 Cycle.....	7.00	MISCELLANEOUS:		
63587	Coil Osc. (Broadcast).....	.80	69236	Bar }	.60
63588	Coil Osc. (49 M.).....	.80	67110	Grommet }	.05
63589	Coil Osc. (31 M.).....	.80	67111	Sleeve } Chassis Mtg. Accessories	.05
63590	Coil Osc. (25 M.).....	.80	69238	Spacer }	.05
63591	Coil Osc. (19 M.).....	.80	68486	Core for B.C. & S.W. Osc. Coils.....	.10
LOOP ANTENNA ASSY:			69087	Core for Auto. Tuning Osc. Coils....	.10
63567	Loop Antenna only.....	2.00	1.25V. Bias Cell.....		.20
63634	Bushing Assy. for flexible shaft mtg.	.20	Type A Holder for Bias Cell.....		.15
63642	Bracket (Top of Loop).....	.20	63504	Cabinet M. 187	P.O.A.
63646	Bracket (Loop Mounting).....	.40	63505	Cabinet M. 188	P.O.A.
63650	Flexible Drive Shaft.....	1.00	63530	Chassis Assy.....	P.O.A.
29859	Washer (Fish-tail type).....	.05	63515	Escutcheon Plate.....	.80
3502-16-1 Washers (Shakeproof spring type).		.05	65625	Knob (3 used).....	.25
LOUDSPEAKER ASSY:			63527	Knob (Push-Button).....	.10
63521	Loudspeaker Complete (M.187).....	5.00	63479	Lead Assy. (A.C. Power Supply).....	.80
63521A	Field Coil (M.187).....	2.00	#44	Pilot Lamp.....	.12
63521B	Cone & Voice Coil Assy. (M.187).....	2.00	69526	Receptacle Assy. for P.L. (3 used)..	.10
63521C	Output Transformer (M.187).....	2.00	67165	Receptacle Assy. for P.L. (2 used)..	.15
63522	Loudspeaker Complete (M.188).....	8.00	63557	Switch (Push-Button Type).....	5.00
63522A	Field Coil (M.188).....	2.50	D.P.D.T. Switch (Ant. Loop).....		.40
63522B	Cone & Voice Coil Assy. (M.188).....	3.00	63556	Socket Assy. (6U5).....	.50
63522G	Output Transformer (M.188)	2.00	63636	Tabs (Station Call Letters)..Per Set	.15
DIAL & DRIVE ASSY:			63637	Tabs (Switch Markers).....Per Set	.05
63570	Dial Scale.....	1.50	63638	Transfers for Cabinet.....Per Set	.25
63560	Dial Shield Assy. (On Cabinet).....	1.20	60506	Terminal Strip (A & G).....	.15
JD.904	Drive Cord (70" Used)....Per Ft. Net	.05	60662	Terminal Strip (Phono.).....	.15

PRICES SUBJECT TO CHANGE WITHOUT NOTICE.

Price 10 cents

CANADIAN MARCONI COMPANY
(Limited Liability)

Head Office
Marconi Building

P.O. Box 1690
MONTREAL

Service Department
922 Victoria Square

500 Beatty Street
VANCOUVER, B.C.

92 Adelaide Street,
TORONTO, Ont.

356 Main Street,
WINNIPEG, MAN.

47 Argyle Street,
HALIFAX, N.S.

Star Building,
ST. JOHN'S, Nfld.