

TECHNICAL INFORMATION

COVERING

BROADCAST RECEIVER TYPE 5150 A.B.

COLLIER & BEALE Ltd. WELLINGTON.

TYPE SET—A.C.-Battery Superhetrodyne Portable—self contained Loop Antenna.
TUBES (Five)—1T4 R.F. Amp., 1R5 Converter, 1T4 I.F. Amp., 1S5 Det.-A.F., 3V4 Power Output.
POWER SUPPLY—230 v. A.C., or self-contained single dry battery, 9 and 90 volts.
CONSUMPTION—A.C.—15 watts, Battery—"A," 50 m.a.; "B" 12.5 m.a.
TUNING RANGE—Broadcast, 535-1600 k.c.

ALIGNMENT INSTRUCTIONS

To set pointer, fully mesh variable condenser and set pointer at last reference mark at left end of dial. Set volume control at maximum and keep output from signal generator no higher than necessary to obtain output reading.

Dummy Antenna	Signal Generator Coupling	Sig. Gen. Frequency	Band Switch Position	Radio Dial Setting	Output Meter	Adjust	Remarks
0.1 μ fd.	High Side to pin No. 6 of 1R5	455 Kc.		High freq. end	Across voice coil	A1, A2, A3, A4.	Adjust for maximum output
R.M.A.	High side to ant. Terminal	1400 Kc.		1400 Kc.	"	C20	" "
Standard	"	1400 Kc.		1400 Kc.	"	C21 & C22	" "
"	"	600 Kc.		Rock Variable	"	C15	" "

CAPACITORS

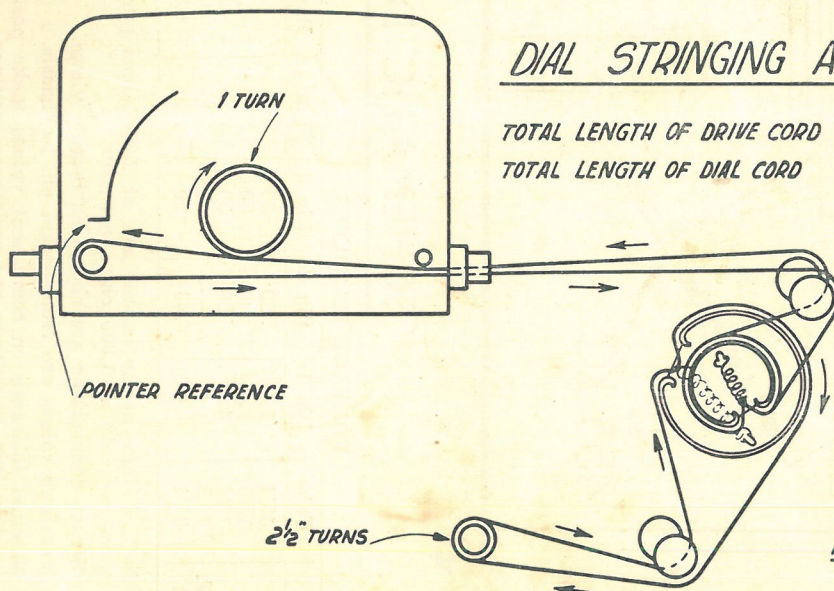
Ref. No.	Cap.	Volts
C1	250 μ fd.	15
C2-3	50 + 50 "	150
C4	0.1 "	350
C5	0.1 "	"
C6	0.1 "	"
C7	0.1 "	"
C8	0.1 "	"
C9	0.05 "	"
C10	0.05 "	"
C11	0.01 "	"
C12	0.01 "	"
C13	0.01 "	"
C14	0.002 "	Mica
C15	600 μ fd.	Padder
C16-17	100 "	Mica
C18-19	50 "	Mica
C20-22	3-30 "	Trimmer
C23	5 "	Ceramic

MISCELLANEOUS

Ref. No.	Res., Pri.	Res., Sec.	Use
718	—	1.36 ohm	Loop
718-1	10.5 ohm	—	Ant. pri.
485	69 "	2.4 ohm	Interstage
118	0.83 "	2.54 "	Oscillator
800	15 "	15 "	IFT
850	14 "	14 "	IFT
952	1.64 "	—	Fil RFC
	volts	volts	
TR5568-2	230	110	
	Type	Transformer	
SP1	5in. P.M.	10,000 ohm	
RE3613	Selenium Rectifier	110v. at 60 m.a.	
SW1	D.P.D.T.		
SW2	3P.S.T. slide switch.		
"B" Batt.	Combined A & B Battery		
"A" Batt.	E.R. Type 753		
CV	Polar C90-03/1 (swing 446 μ uf.)		

RESISTORS

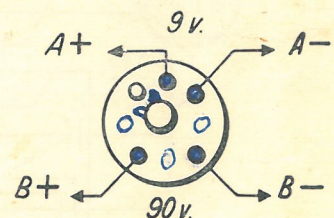
Ref. No.	Res.	Watts
R1	10 meg.	$\frac{1}{2}$
R2	5 "	"
R3	5 "	"
R4	3 "	"
R5	1 "	"
R6	1 "	"
R7	500K ohm	Pot.
R8	250K "	$\frac{1}{2}$
R9	100K "	"
R10	50K "	"
R11	10K "	"
R12	2K "	$\frac{1}{2}$
R13	1K "	$\frac{1}{2}$
R14	1K "	"
R15	500 ohm	"
R16-17	400 "	"
R18	330 "	"



DIAL STRINGING ARRANGEMENT

TOTAL LENGTH OF DRIVE CORD 1'2"

TOTAL LENGTH OF DIAL CORD 2'6"



BATTERY PLUG WIRING CONNECTIONS

NOTE PLUG VIEWED FROM PIN SIDE.

intended 1950 model?

S/N 94159
Pala 50 = 19A1 = 1951

