



MODEL CRK. GRAMO-RADIO COMBINATION

An automatic 4 Speed Record Changer (78, 45, 33-1/3, 16-2/3 r.p.m.) and an 8 valve Superheterodyne Five Band Receiver incorporating Bandspread of the

19 Metre, 25 Metre, 31 Metre and 49 Metre Shortwave Bands.

FOR OPERATION FORM:-

200-240 Volt 50 Cycle Supply Mains (Power Transformer T119)

Power Trans. Primary Mains Tap-red-common.

" " " " " -green-200V mains.

" " " " " -black-230 & 240V. mains.

200-250 Volt 40 Cycle Supply Mains (Power Transformer T120)

Power Trans. Primary Mains Tap-red-common.

" " " " " -green-200V mains

" " " " " -black-230 & 240V. mains

" " " " " -white-2250V. mains

POWER CONSUMPTION:-

Radio Operation:- 55 Watts-approx.

Gramo Operation:- 75 Watts-approx.

ASTOR MODEL CRK.

TUNING RANGES:-

Broadcast Band, 535-1610 Kc/s.

19 Metre Band, 14.9-15.5 Mc/s. (Bandspread)

25 Metre Band, 11.6-12.1 Mc/s. (Bandspread)

31 Metre Band, 9.4-9.8 Mc/s. (Bandspread)

49 Metre Band, 5.95-6.25 Mc/s. (Bandspread)

RECEIVER COVERAGE:-

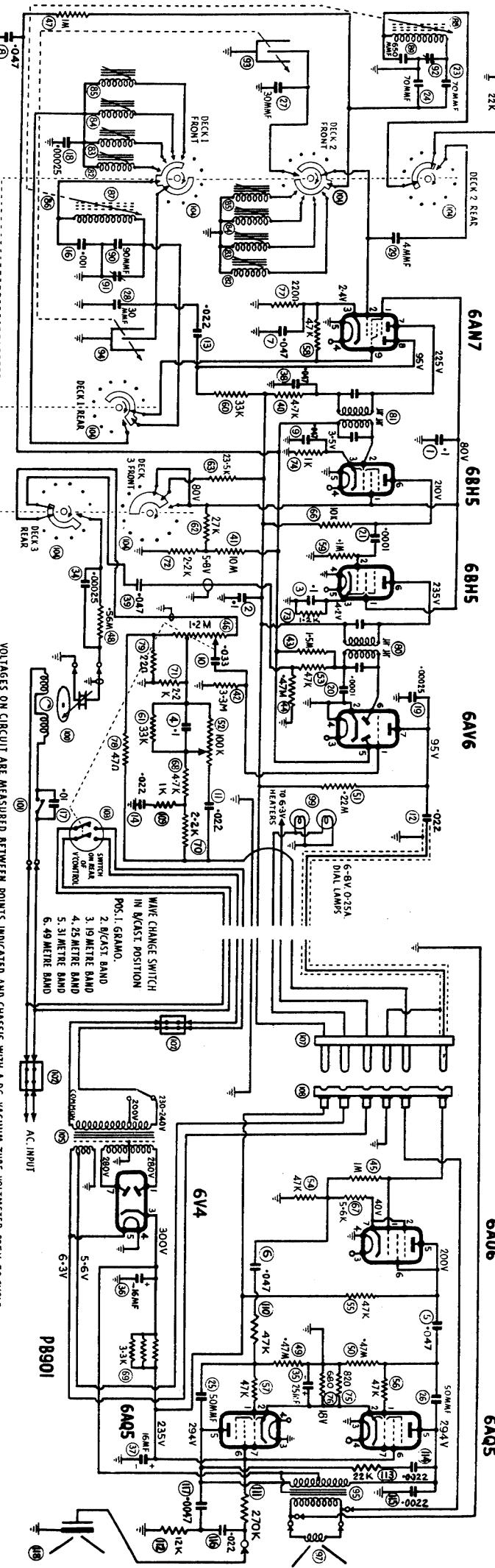
560.7-186.3 Metres (approx.)

20.13-19.29 Metres (approx.)

25.86-24.79 Metres (approx.)

31.91-30.61 Metres (approx.)

50.42-48.0 Metres (approx.)



MODEL - CRK - IF = 455 Kc/s

B/CAST AND S/WAVE ALIGNMENT

ALIGNMENT PROCEDURE

EQUIPMENT

Signal Generator:
Output Meter:
Mica Capacitor:

Dummy Antenna:
Antenna:

Alignment Tools:

Load Impedance:
0.01MF (for IF.
200 μ MF Mica
capacitor
400 Ohm non-inductive Vol. Control:
resistor

Type MI95 and PM581
Input Voltage:
455 Kc/s.
230 Volts 50 Cycle
AC. input to trans.
230-240 Volt pri. tap

Tone Control:
Treble position

IF. TRANS. ALIGNMENTALIGNMENT CONDITIONS

Generator Connection Frequency Dummy Antenna
No. Instructions

- Remove receiver power supply chassis and tuning unit chassis from cabinet as detailed on page 9.
- Remove dial back plate assembly from tuning unit chassis.
 - Pull dial pointer up, then twist it over to rear of dial background.
 - Slide dial lamp sockets off edge of dial background.
 - Unscrew and remove two screws from mount plate at each end of dial background.
 - Pull dial background assy. forward straight off control spindles.
- Connect speaker leads and leads from tuning unit chassis to power supply chassis.
- To control grid of 6BH5 2nd IF. valve pin No. 2

455 Kc/s. 0.01MF Mica. Turn wave change switch to b/cast band. Leave grid capacitor in series with valve socket. Peak 2nd IF. generator trim. pri. and sec. for max. output.
- To control grid of 6AN7 valve, pin No. 2

455 Kc/s. 0.01MF Mica. Leave grid wire attached to valve socket. Turn perm. tuner so that iron cores are out of windings on coil formers. Peak 1st IF. trans. pri. and sec. for max. output.
- Refit dial plate assembly and dial pointer.

Oper- ation No. Generator Connection Frequency Dummy Antenna Instructions

1. DIAL POINTER SETTING. Turn tuning spindle so that perm. tuner iron cores are out of the windings on the coil formers and the unit is hard against the stop. Set the centre of the dial pointer on the centre of the end of travel spot on the dial near 1700 Kc/s.

2. To antenna. 1000 Kc/s. 200MF Mica capacitor in series with generator

Turn tuning control and perm. tuner until centre of dial pointer aligns with centre of spot on dial reading at 1000 Kc/s.

Peak b/cast oscil. coil trimmer cond., then peak b/cast antenna coil trim.

cond. for max. output. Re-peak oscil. coil trim. condenser.

Tuning range after alignment 535-1610 Kc/s. Check logging at each end of the dial.

5. Turn wave change switch to 49 metre band (this band to be aligned before the 31, 25 and 19 metre bands). 400 Ohm Non-inductive resistor in series with generator

Turn wave change switch to 49 metre band. Turn tuning spindle and perm. tuner until dial pointer aligns with the 6.08 Mc/s. mark on the dial. Adjust 49 metre band oscil. coil ind. trimmer (iron core) for logging, then peak 49 metre antenna coil ind. trimmer (iron core)

for max. output. Turn wave change switch to 31 metre band. Turn tuning spindle and perm. tuner until dial pointer aligns with 9.6 Mc/s. mark on dial. Adjust 31 metre oscil. coil ind. trimmer (iron core) for logging, then peak 31 metre antenna coil ind.

Turn wave change switch to 25 metre band. Turn tuning spindle and perm. tuner until dial pointer aligns with the 11.8 Mc/s. mark on the dial.

8. To antenna lead 11.8 Mc/s.

400 Ohm non-inductive resistor in series with generator

A30b.

ASTOR MODEL CRK.

Oper- ation No.	Generator Connection	Generator Frequency	Dummy Antenna	Instructions	Length of cord required is 4 ft. 6 ins., which includes about 8 ins. to spare for tying to tension springs.
9.	To antenna lead	15.2 Mc/s.	400 Ohm non inductive resistor	Adjust 25 metre band oscil. coil ind. trim. (iron core) for logging, then peak 25 metre antenna coil ind. trim. (iron core) for max. output. Turn wave change switch to 19 metre band. Turn tuning spindle and perm. trim until dial pointer aligns with 15.2 Mc/s. mark on the dial. series with Adjust 19 metre band oscil. coil generator ind. trim. (iron core) for logging, then peak 19 metre antenna coil ind. trim (iron core) for max. output. Check logging on 49, 31, 25 and 19 metre bands at each 100 Kc/s. mark on the dial.	Cord Part No. 34/754. Tension Spring (2) Part No. 503/30C.
10.	To A.C. mma lead	Multi-vibrator		NOTE: The iron cores in the perm. tuner coils and the s.w. condens. on the perm. tuner are set to an exact dimension. No adjustment to the dimensions is to be made if misalignment and incorrect logging are to be avoided.	P.R. 783 TUNING SPINDLE TURNED FULLY ANTI-CLOCKWISE PERMEABILITY TUNER HARD AGAINST STOP.

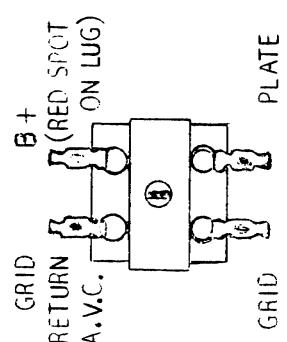
P.R. 783

- CCTL 49 Metre spreadband coil, YELLOW spot on iron core end of former.
COLCTR 31 Metre spreadband coil, RED spot on iron core end of former.
C5NE 25 Metre spreadband coil, WHITE spot on iron core end of former.
C5GE 19 Metre spreadband coil, BROWN spot on iron core end of former.

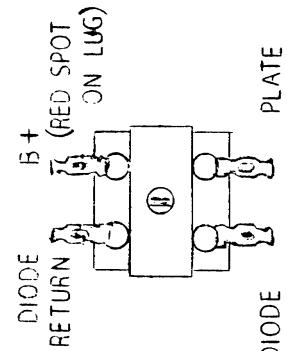
SHORTWAVE SPREADBAND CCIL IDENTIFICATION COLOURS

- 49 Metre spreadband coil, YELLOW spot on iron core end of former.
 31 Metre spreadband coil, RED spot on iron core end of former.
 25 Metre spreadband coil, WHITE spot on iron core end of former.
 19 Metre spreadband coil, BROWN spot on iron core end of former.

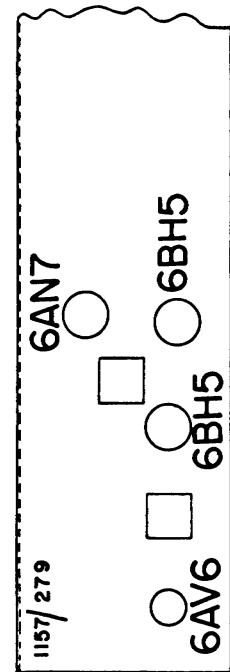
1ST. I.F. TRANS.



2ND. I.F. TRANS.



VALVE PLACEMENT DIAGRAM 1156/279



VALVE PLACEMENT DIAGRAM