

PHILCO MODEL 501 & 501 R.N.

GENERAL DESCRIPTION

Model 501 is a valve Superheterodyne receiver and is produced in two forms, i.e., Model 501 incorporation socket and switch for adding an extension speaker, and also a Local-Distance switch in the aerial circuit, while Model 501 R.N. is fitted with the now popular Radio-Nurse feature. In the circuit diagram all that part connected by dotted lines will be found in the R.N. form only.

Tube Complement :

Band Coverage 535-1600 Kcs.

ECH21 Frequency Converter

7A7 I.F. Amplifier

Power Consumption 35 Watts.

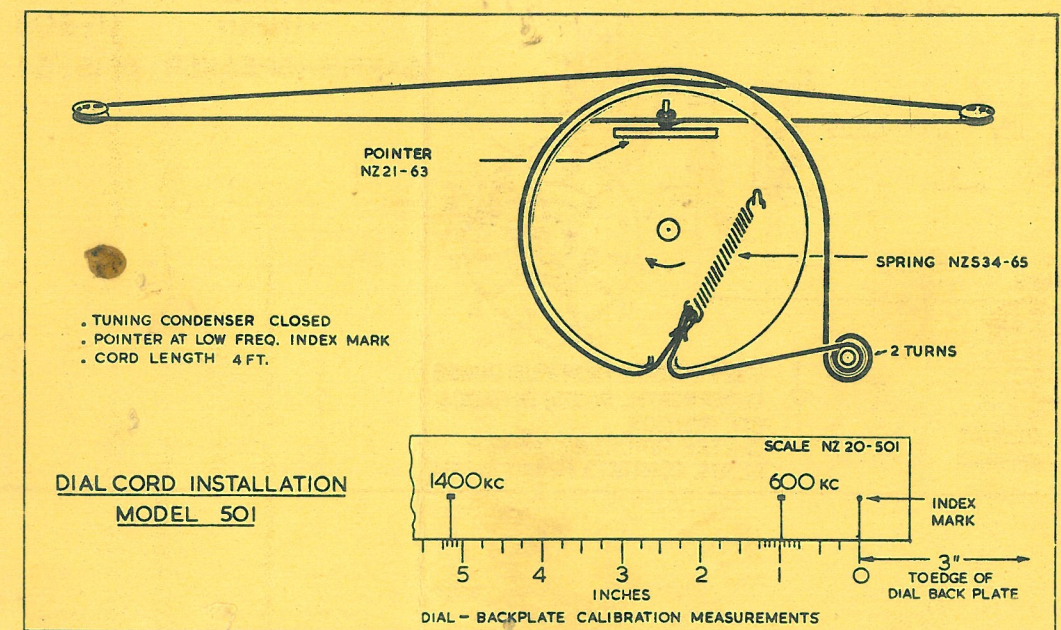
7C6 2nd Detector & 1st A.F. Amplifier.

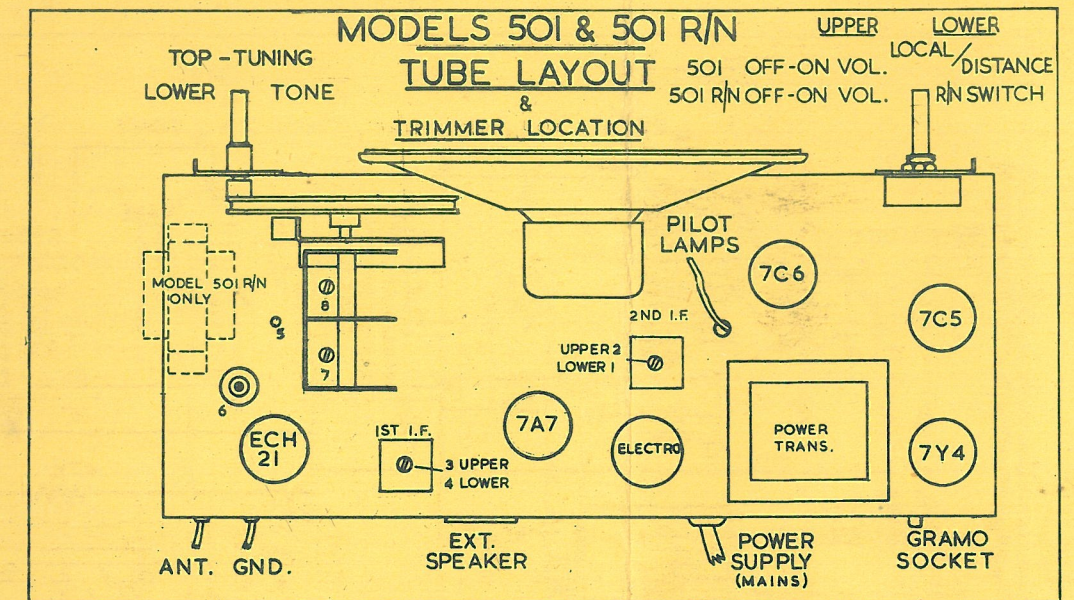
7C5 Beam Power Output

5Y3 Rectifier

Radio Nurse switch cycle : From anticlockwise to fully clockwise.

- 1 Normal radio and extension speaker.
- 2 Normal radio.
- 3 Normal radio and Radio Nurse Listen.
- 4 Radio nurse only, listen position.
- 5 (Spring loaded) Radio Nurse talk position.





ALIGNMENT PROCEDURE

EQUIPMENT REQUIRED:

ALL wave signal generator—output meter. (N.B.) Philco receivers are carefully aligned before leaving the factory and re-alignment of a new set if necessary, at all will be confined to slight adjustments only.

1. Connect output meter to convenient source of audio, say across the terminals of the output transformer using the high range of meter.
2. A Standard dummy aerial should be used or if this is not available a 200 mfd condenser in series with the generator lead for broadcast frequencies.
3. Use lowest output of generator consistent with a readable deflection of the output meter.
4. Carry out the alignment in the order set out in the following table:

BAND	GENERATOR FREQUENCY	RECEIVER FREQUENCY	TRIMMERS	DUMMY	REMARKS
I.F.	455 K/cs	1600	1-2-3-4	.1 mfd	Connect generator to large centre section of gang.
B.C.	1400	1400	7-8	Standard	Repeat after adjusting 5-6.
B.C.	600	600	5-6	Standard	