

# PHILCO MODEL 612

## SPECIFICATIONS

A high gain six tube receiver using highly efficient Loktal tubes. Permeability tuned I.F. transformers and R.F. coils.

BAND COVERAGE :  
1600 K/cs. — 535 K/cs.

LOUDSPEAKER :  
Rola 6/9H P.M.

INTERMEDIATE FREQUENCY :  
455 K/cs.

### TUBES :

7B7 Loktal R.F. stage  
7S7 " Converter  
7B7 " I.F. stage  
7C6 " Diode detector  
1st Audio  
7C5 " Beam Power Output  
5Y3 Octal Rectifier

POWER SUPPLY :  
230V. A.C. 50 cycles.

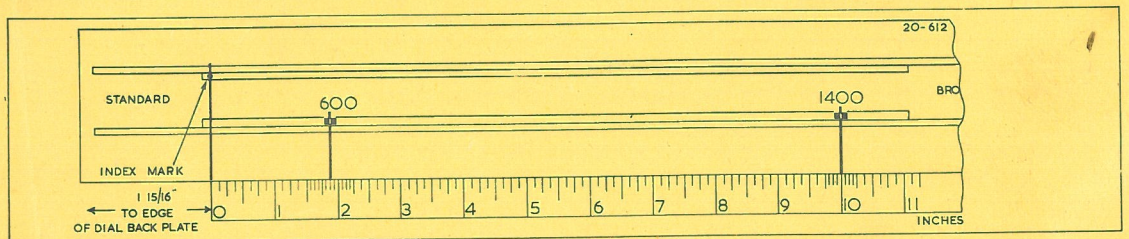
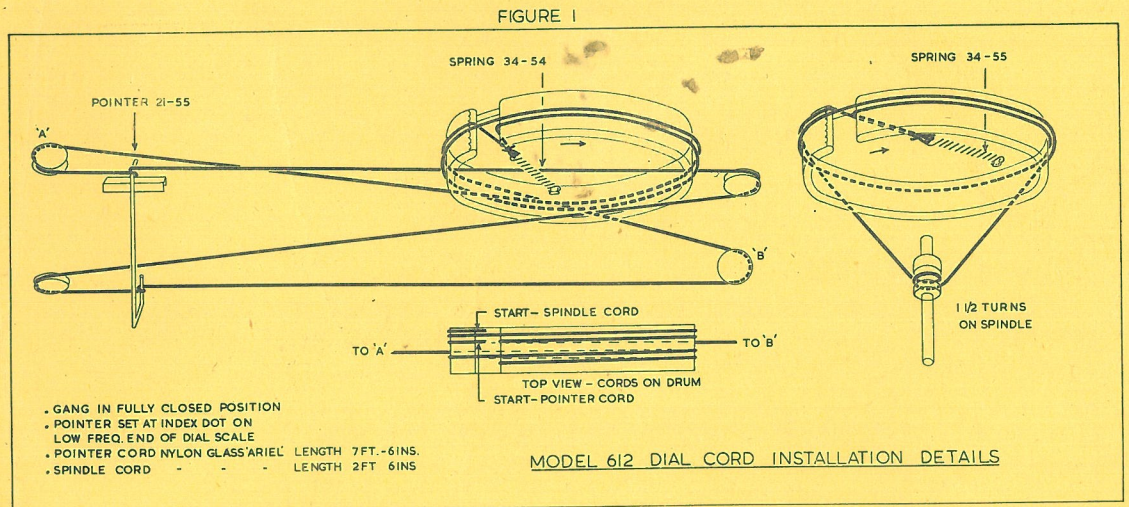
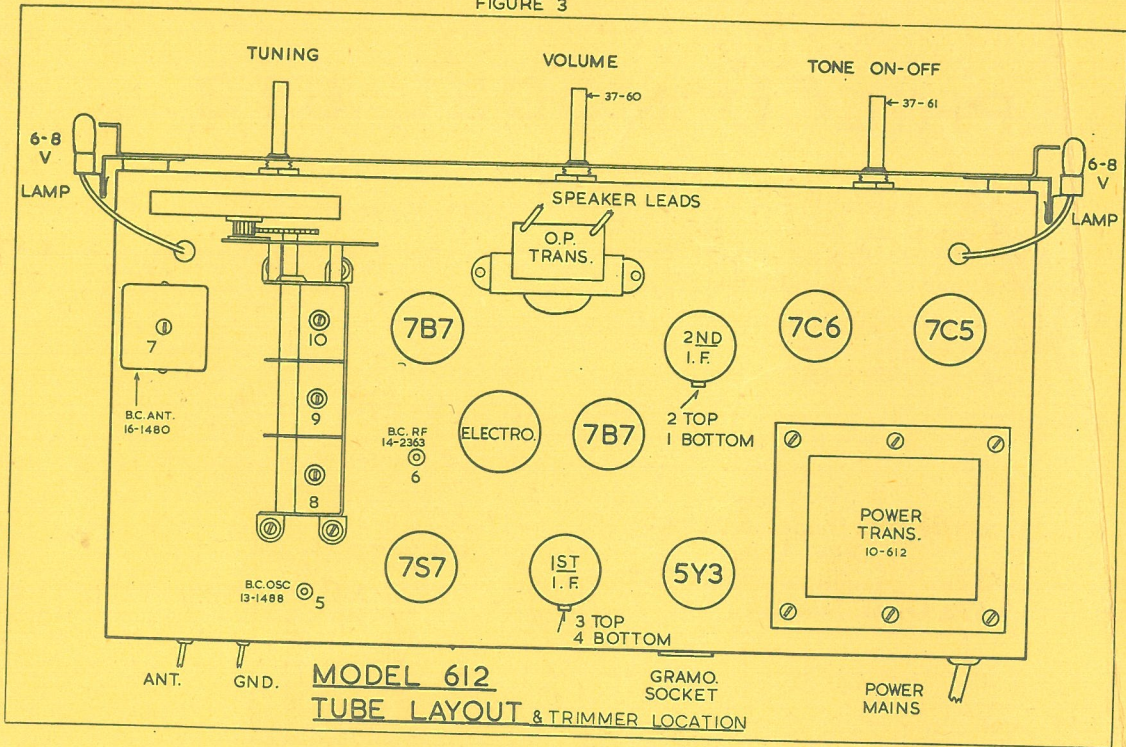


FIGURE 3

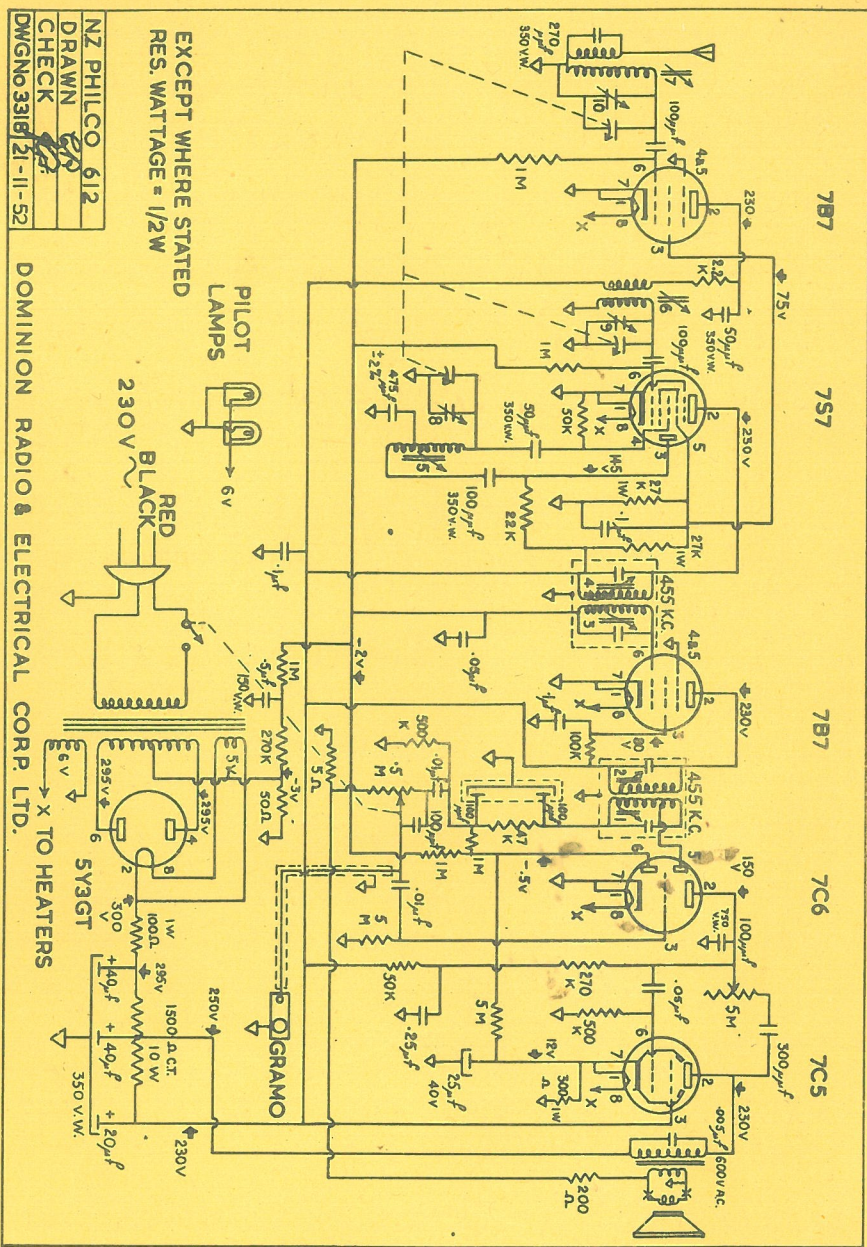


### ALIGNMENT PROCEDURE

#### EQUIPMENT REQUIRED :

Signal Generator covering Broadcast and I.F. frequencies. Standard dummy aerial or failing this a 200 mmfd condenser in series with the generator cable. Output meter.

BAND	GENERATOR CONNECTION :	GENERATOR FREQUENCY	RECEIVER FREQUENCY	TRIMMERS	REMARKS
I.F.	Through .1 mfd condenser to centre gang section, gang open	455 K/cs	1600 K/cs	1-2-3-4	Repeat
Broadcast	Through dummy aerial or 200 mmfd condenser.	1400 K/cs 600 K/cs	1400 K/cs 600 K/cs	8-9-10 5-6-7	Repeat after 600 K/c alignment.



NZ PHILCO 612  
 DRAWN *[Signature]*  
 CHECK *[Signature]*  
 DWG No 331B/ 21-II-52

EXCEPT WHERE STATED  
 RES. WATTAGE = 1/2W

DOMINION RADIO & ELECTRICAL CORP. LTD.

FIGURE 4

REPLACEMENT PARTS LIST

PART	NZ PART NO
TRANSFORMER	
- POWER	10-612
- B.C. OSC.	13-1488
- B.C. R.F.	14-2363
- B.C. ANT.	16-1480
SCALE - DIAL	20-612
POINTER-DIAL	21-55
SPRING- POINTER	34-54
CORD	34-55
- SPINDLE	34-55
CONTROL	
- VOLUME	37-60
- TONE	37-61
CABINET	18-612
GRILLE	15-43
SPEAKER	36-26

# DOMINION RADIO & ELECTRICAL CORP. LTD.

RADIO & ELECTRICAL ENGINEERS & MANUFACTURERS

*Broadway, Newmarket  
Auckland, New Zealand*

December 18, 1952.

SERVICE BULLETIN

PHILCO MODEL 612.

A small number of this model have left the Factory with the feedback leads to the secondary of the output transformer reversed, thus applying a small amount of positive feedback to the input of the amplifier instead of negative feedback as intended.

While the effect is so small as to be barely noticeable, a slight increase of minimum volume and hum level may be noticed together with a very slight amount of low frequency distortion. Should these conditions be noticed by Dealers the remedy is to disconnect the feedback leads, change them to opposite sides of the output transformer secondary and resolder.

Yours faithfully,

*J. G. Henderson*

J. G. HENDERSON  
Service Manager.