

PHILCO MODELS 1661, 1225, 552

GENERAL DESCRIPTION:

The circuit is a dual-wave six tube superheterodyne of efficient design with semi bandspread on the shortwave band, a high gain I.F. channel and a high quality Audio Amplifier. A separate switch position is provided for change over from Radio to the "Gram." position, on the W/C switch Band Coverage is:-

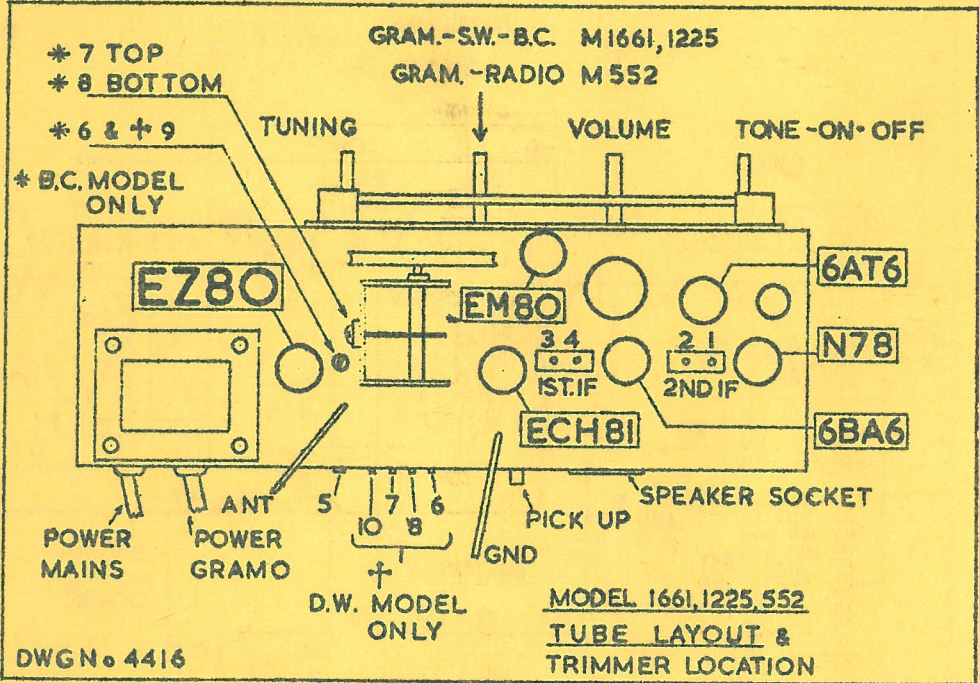
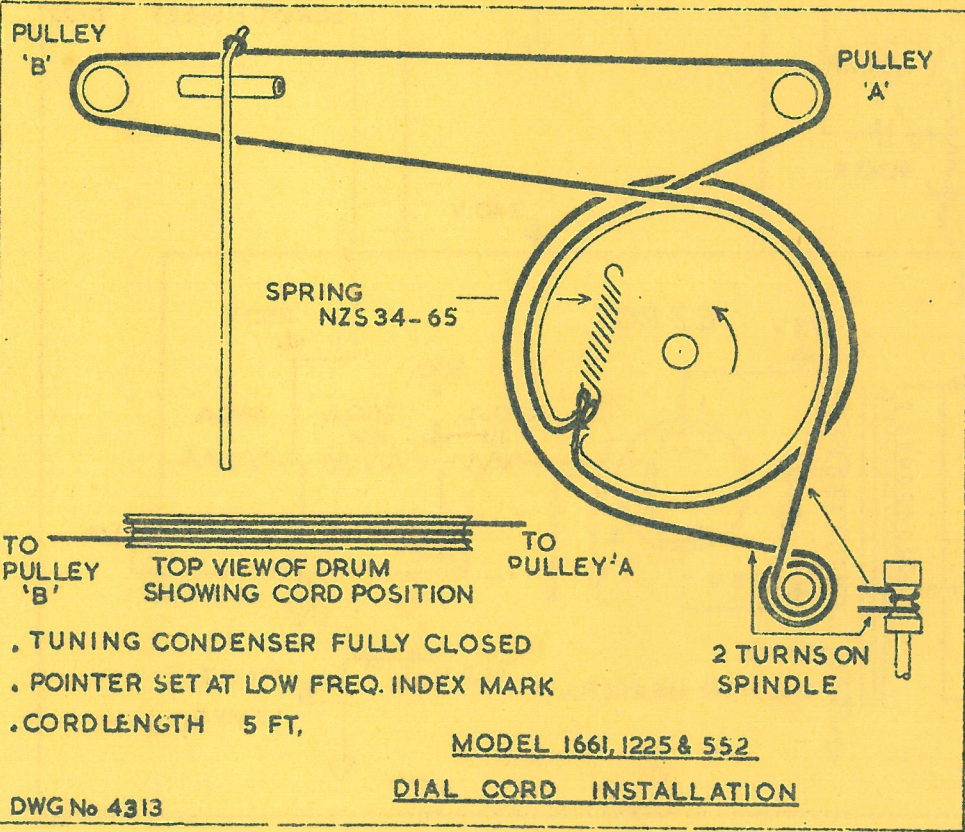
Broadcast - 1600 - 535 K/cs

Shortwave - 15.5 - 9.5 M/cs

Gramophone Unit Collaro Record Changer.

TUBES

Converter	ECH81
I.F.	6BA6
Det. & 1st Audio	6AT6
Output	N78
Rectifier	EZ80



ALIGNMENT PROCEDURE

EQUIPMENT REQUIRED:

All-wave signal generator and output meter.

A Standard dummy aerial should be used or failing this a 200 mfd condenser in series with the Generator for Broadcast frequencies and a 400 ohm resistor in series for short-wave alignment.

Use lowest output of generator consistent with a readable deflection of the output meter. Carry out alignment steps in the order set out below. Connect the output meter from output plate to chassis or across the primary of the output transformer. The image frequency will be found .91 M/cs higher on the generator scale.

Set the pointer to index mark at the low frequency end of dial.

BAND	GENERATOR CONNECTION	GENERATOR FREQUENCY	RECEIVER FREQUENCY	TRIMMER	REMARKS
I.F.	Through .1mfd condenser to centre gang section	455 K/cs	1600 K/cs	1,2,3,4.	
B/Cast	Aerial through dummy aerial or 200 mfd condenser	1400 K/cs 600 K/cs	1400 K/cs 600 K/cs	7,8 5,9	Repeat. Cores 5,9 must always be adjusted at the low frequency end of dial.
S/W	Aerial through 400 ohm resistor or dummy aerial	12 M/cs	12 M/cs	6,10	Check for image adjust for maximum signal.

