PHILCO MODEL 852

SPECIFICATIONS

GENERAL DESCRIPTION:

Model 852 is a Radio-Gramophon

Model 852 is a Radio-Gramophone incorporating a Collaro 3 R.C.532 record changer and an eight tube A.C. Superheterodyne circuit with five tuning ranges including two bandspread bands and covering the following frequencies:

Broadcast: - 535-1600 K/cs.

Shortwave 1:— 2.5—7.5 M/cs. 2:— 7.5—22 M/cs.

Bandspread 1:— 9.4—12 M/cs. " 2:—15 —18 M/cs

The circuit consists of a 7B7 RF stage, a 7S7 triode-heptode frequency converter followed by a 7B7 permeability tuned I.F. stage and a 7C6 double diode second detector and high-mu audio amplifier. The power output stage is fed by a 6N7

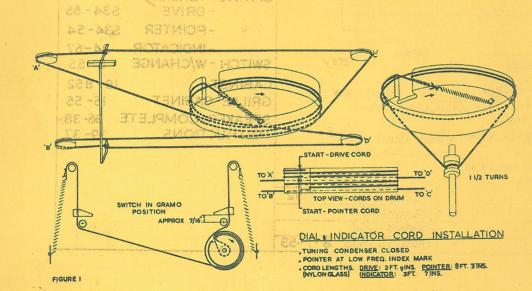
phase inverter and consists of two 7C5 beam power amplifier tubes in push-pull giving ample undistorted power for all requirements. A wide range of distortionless tone control is provided by a network controlled by two tone controls, one for treble and the other for bass. All component values and voltages are marked on the circiut diagram.

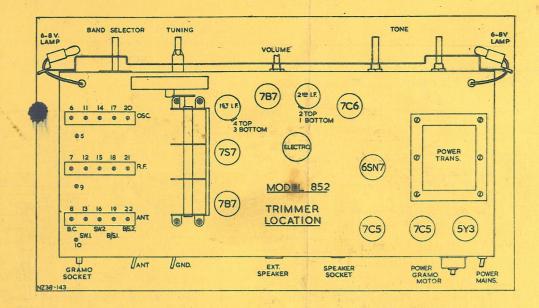
Power Supply: 230 volts 50 cycle A.C.

Power Consumption: 90 watts.

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Service information on the record changer is contained in the Collaro Service Manual.





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.

- Connect output meter to convenient source of audio, say across the terminals of the high output transformer using the high range of the 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 and a 400 ohm resistor in series for short wave alignment.
- 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:

NOTE: The image signal will be found .91 m/cs higher on the generator scale or .91 m/cs lower on the receiver dial scale.

BAND	GENERATOR FREQUENCY:	RECEIVER FREQUENCY:	TRIMMERS	DUMMY	REMARKS
I.F. B.C.	455 K/cs 1400	1600 1400	1-2-3-4 6-7-8	.1 mfd Standard	Connect generator to large centre section of gang.
B.C. S.W.1. S.W.2.	600 6 M/cs 18 "	600 6 M/cs 18	5-9-10 11-12-13 14-15-16	" "	Repeat after adjusting C8. Roll gang.
B.S.1. B.S.2.	11	11 "	17-18-19 20-21-22	n n	Check for image freq.

