



INSTRUCTIONS

for

CONNECTING & OPERATING

the

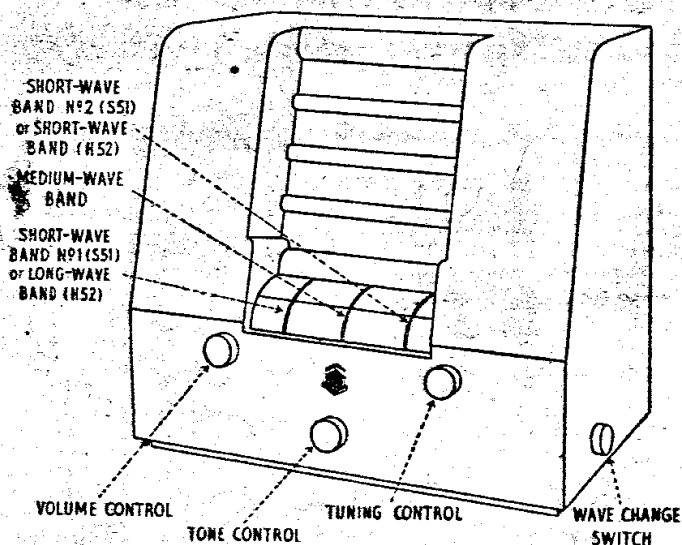
PETO SCOTT

MODELS S51 & H52

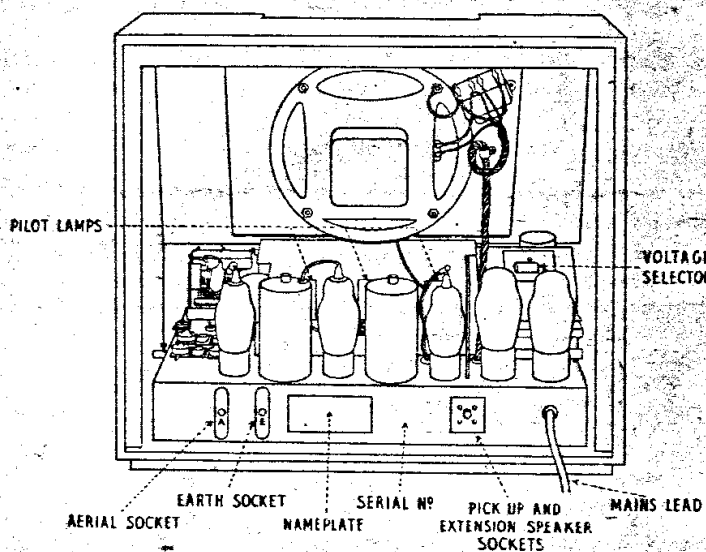
5 VALVE A.C. MAINS SUPERHETERODYNE RECEIVERS

Model S51 covers 12·5—550 metres (24·0—0·55 megacycles) in three wavebands. 200—250v. A.C. 40—100 c.p.s.

Model H52 covers 15—50 metres (20·0—6·0 megacycles), 200—550 metres (1·5—0·55 megacycles), and 1000—2000 metres (0·3—0·15 megacycles), 200—250v. A.C., 40—100 c.p.s.



View of front of set showing control knobs and scale. The wavechange switch is at the side. (See instructions.)



View of back of set with cover removed. The voltage selector is shown in the 200-215 volt position. This illustration shows arrangements for the plug and socket method of aerial and earth fixing. The valves are shown from left to right: X61M, KTW61M, DH63, KT61 and U50.

FOREWORD

You are now the possessor of a PETO SCOTT radio receiver.

Great care has been taken in the design and manufacture of this receiver. Everything has been done to make listening to broadcast programmes faithful and reliable.

It now rests with you to handle the receiver in order to obtain

the best results, and to help you in this the following instructions are given. We ask you to read them carefully, so that you may understand the purpose of the various connections and controls. Only then will you obtain the greatest enjoyment from your PETO SCOTT Receiver.

PETO SCOTT ELECTRICAL
INSTRUMENTS LIMITED

MAINS VOLTAGE ADJUSTMENT
FOR SETS WITH 100-250V. MAINS TRANSFORMERS ONLY

MAINS VOLTAGE	L.H. PLUG	R.H. PLUG
95 — 104	100	0
105 — 114	100	+10
115 — 125	100	+20
145 — 154	150	0
155 — 164	150	+10
165 — 175	150	+20
190 — 204	200	0
205 — 214	200	+10
215 — 224	200	+20
225 — 234	230	0
235 — 244	230	+10
245 — 255	230	+20

EXAMPLE:
MAINS VOLTAGE HO.

L.H. PLUG R.H. PLUG

FIG. 1

USING PICK-UP & EXTENSION LOUD-SPEAKER

PICK-UP PLUGS INTO THESE HOLES

EXTERNAL LOUD-SPEAKER PLUGS INTO THESE HOLES

INTERNAL SPEAKER MAY BE DISCONNECTED BY SLACKENING THIS SCREW

WARNING
INTERNAL SPEAKER MUST NOT BE DISCONNECTED WHEN EXTERNAL LOUD-SPEAKER IS NOT IN USE

FIG. 2

INSTALLATION

IMPORTANT

DO NOT AT ANY TIME INSERT THE MAINS PLUG UNLESS THE BACK PANEL IS IN POSITION AND SECURED FIRMLY, AND MAKE SURE THAT THE FOLLOWING INSTALLATION INSTRUCTIONS HAVE BEEN CARRIED OUT. WHEN CONNECTING UP ANY LEADS SEE THAT THE MAINS PLUG IS OUT.

DO NOT ATTEMPT TO OPERATE THE RECEIVER ON D.C. (DIRECT CURRENT) MAINS.

Pilot Lamps

It is advisable to check to see that the pilot lamps are screwed into their sockets firmly. Remove the pilot lamp holders by pulling downwards, screw in the pilot lamps and replace the holders, making sure that they clip squarely in the centre of the correct openings that are provided.

Valves

Check that the valves are fitted firmly in their sockets, and that the top connectors are in position upon the three valves which have metal tops.

Our sets have been designed and tested for use with radio valves manufactured by members of the British Radio Valve Manufacturers' Association, who mark their valves with the letters "B.V.A.", which is a guarantee of quality and efficiency. No responsibility can be accepted for the performance of our sets if radio valves other than those marked B.V.A. are employed.

Voltage Adjustment

The set is designed to operate on A.C. (Alternating Current) Mains voltages between 200-250, 50-100 cycles only. A small panel on the mains transformer contains the mains adjustment. First ascertain the voltage of your supply from your electricity meter, and then adjust for the required position (nearest number greater than your voltage). If you have a set specially manufactured for lower voltages refer to Fig. 1.

Mains Consumption

The PETO SCOTT Models S51 and H52 each consume approximately 60 watts, which will give 16½ hours' use for the cost of one unit of electricity.

Mains Lead

Unwind the mains lead (it is wound for neatness of packing) and replace the back, using all the screws and screw-cups that are provided.

Aerial and Earth

No doubt you will already possess an aerial and earth for use with the set. Make sure that the end of the aerial is bared for a length of approximately one inch. Clip this under the fixing post engraved "A" on the back of the chassis. Similarly, slip the bared end of your earth wire under the fixing post engraved "E." In some models an aerial and earth socket is used instead of clips. The wires should then be fixed in the plugs provided, and inserted in the sockets.

Extension Speaker

It is possible to use an Extension Speaker in another part of the house without having the internal speaker working. The leads from your extension speaker should be fitted to the panel (see Fig. 2). To disconnect internal speaker turn the screw in the centre of the panel.

The extension speaker socket is designed for use with a low (3-5 ohms) impedance speaker—i.e., a moving coil loudspeaker without a transformer.

Gramophone Pick-up

To operate the set on records disconnect set from the mains, insert pick-up sockets as shown in Fig. 2. Before operating the Pick-up make sure you are not tuned to a station, otherwise "break-through" will occur.

P.T.O.

CONTROLS

- Mains On/Off Switch and Volume Control** The extreme left-hand knob is the combined ON/OFF and VOLUME CONTROL. When turned fully anti-clockwise the switch is turned off. When turned in a clockwise direction the set is switched on and the volume increased according to the amount the control is turned.
- Variable Tone Control** The centre knob operates the VARIABLE TONE CONTROL. Turn anti-clockwise to reduce the "high note" response.
- Tuning Control** The right-hand knob operates the tuning drum. Spin tuning has been incorporated. You will find that you are able to tune from one end of the scale to the other very quickly, and can still obtain very precise tuning when this is required on the Short Wave bands.
- Wave-Change Switch** The knob at the side of the cabinet operates the WAVE-CHANGE SWITCH. This is in three positions, switching to each waveband as desired, and operating the pilot lamp behind the dial for each waveband as this is switched into position. The fully clockwise position is Short Waveband No. 2 (right-hand portion of scale), the next is Short Waveband No. 1 or Long Wave in Model H52 (left-hand portion of scale), and the fully anti-clockwise position is Medium Wave (centre portion of scale).

TUNING

Having connected the Aerial, Earth and Mains plugs to the receiver, set the wave-change switch to the waveband desired. Turn the tuning knob until the centre cursor line is at the selected wavelength or frequency.

Switch the set on by operating the volume control, and allow at least 30 seconds for the valves to warm up. Set the tone control to give the required tone, and adjust the volume to the required level.

Notes on Tuning

The following notes are well worth studying in order to improve your skill in tuning. Mistuning can often mar reception to such an extent that only a fraction of the true performance is obtained.

When tuning a station, always tune past what is obviously the tune point, then come back slowly until the best result is obtained. When a station is mistuned, it will be characterised by a hissing noise with accentuation of all the higher sounds. When the set is correctly tuned you should be at a point where there is no hiss, and on either side of this point a slight hiss will be apparent.

Best reception times

It will be found, especially when tuning on short waves, that reception of certain stations is better at some times than at others. This is because wireless waves are affected by the time of the day, the season of the year, and other factors which are influenced by the sun.

If any point in these Instructions has not been made sufficiently clear, please consult the PETO SCOTT agent from whom you purchased the set.

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