

How to operate the set

Switching on

The apparatus is switched on by pressing the mains switch upwards.

Waveband switch

Set the waveband switch at the position corresponding to the wavelength on which the local station operates. The following are the wavelength ranges:

range	I	=	200—	450 m,
„	II	=	450—	950 m,
„	III	=	950—	2000 m.

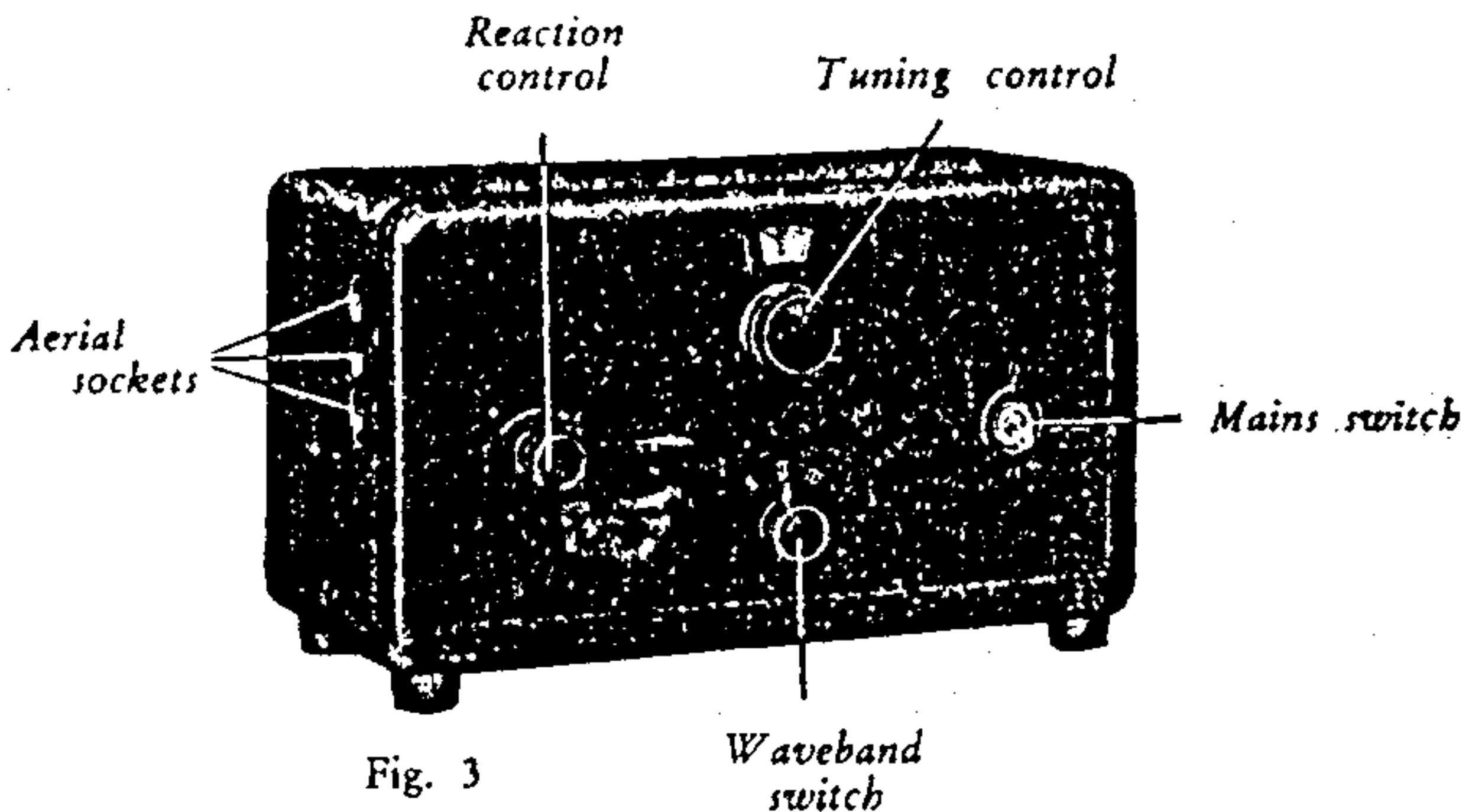


Fig. 3

Tuning

Then turn the reaction control as far as possible in the direction opposite to that of the arrow.

Turn the tuning control until the local station is heard. If no satisfactory result is obtained, the reaction control should be turned a little in the direction of the arrow, and the tuning control re-adjusted*). The reaction control, however, should never be turned so far in

*) If the local station transmits on a wavelength situated near the shortest wavelength of a given waveband, the exact tuning adjustment may seem to fall below the zero point of the tuning dial. In this case exact tuning can be obtained by inserting the aerial plug in the next lowest aerial socket.

the direction of the arrow as to cause oscillation (whistling). Once the local station has been found, the tuning and reaction control should be slightly re-adjusted in order to obtain the very best results.

If interference is caused by another station, the selectivity can be increased. This is effected by inserting the aerial plug in the centre or bottom socket (greatest selectivity). Volume can also be controlled by this method. After the aerial socket connection has been altered, the tuning control must be re-adjusted.

Tone filter

With the reception of certain stations the tone character may sometimes seem rather shrill. It can be mellowed by means of Philips tone filter type 4004, which must then be inserted between receiving set and loudspeaker. Place the tone filter on the loudspeaker plug and plug it into the loudspeaker sockets of the set.

Use of a pick-up

Record reproduction by means of a good electrical pick-up is much better than that obtained by means of a gramophone with an ordinary soundbox. With electrical reproduction all the brilliance of electrical recordings is obtained; moreover, volume can be adjusted to the desired strength by means of a suitable volume control.

The pick-up must be connected to the two sockets intended for this purpose, marked "G" (see fig. 2).

Withdraw the aerial from its socket and turn the reaction control as far as possible in the direction opposite to that of the arrow.

The loudspeaker and pick-up leads should be kept well clear of each other.

A Philips pick-up is ideal for use with this set. With this pick-up a potentiometer of at least 50,000 ohms should be used as a volume control.

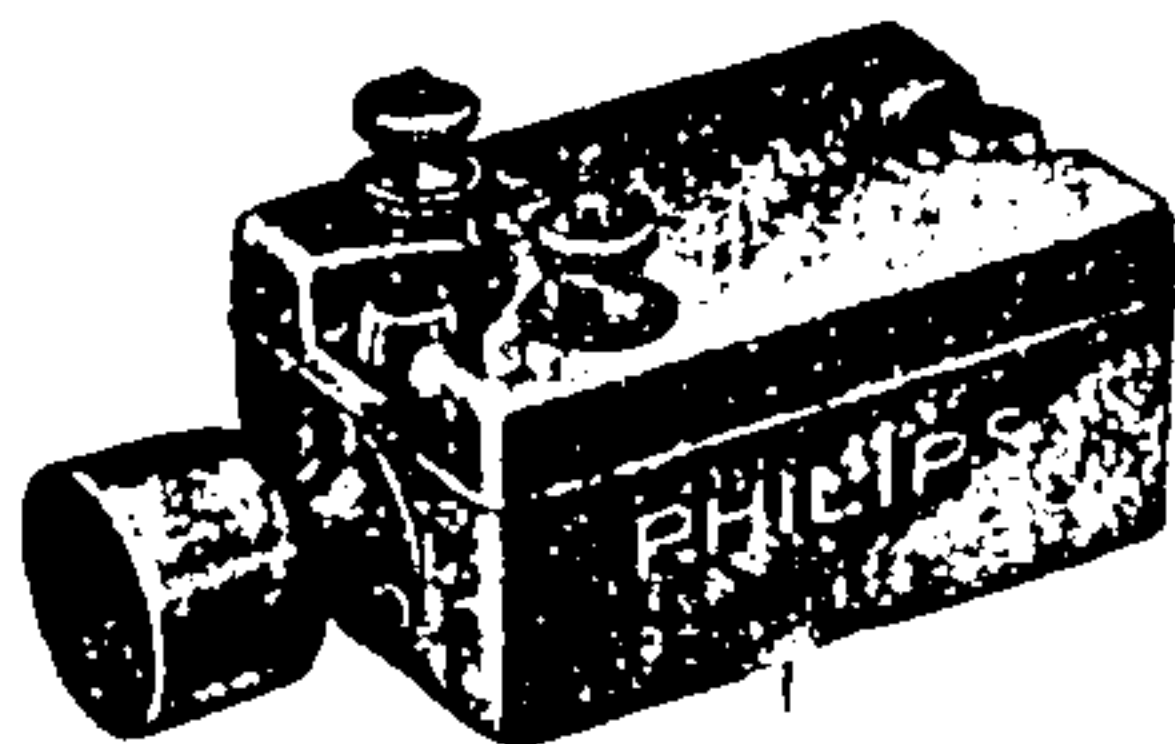


Fig. 4

Mains voltage

The receiving set may be connected only to an A.C. supply of the voltage and periodicity for which it is intended. If connection is made to the wrong voltage or periodicity serious damage may result.

The receiver is supplied in two types. One type is suitable for connection to the mains voltages in group I, the other to the voltages in group II.

Group I	Group II
111 volts,	196 volts,
118 volts,	210 volts,
127 volts,	225 volts,
225 volts,	240 volts,
240 volts.	253 volts.

A plate in the receiver shows for which group the apparatus is intended. The voltage for which it is adjusted is indicated below the holes through which a wire is passed.

Adaptation of the set to another voltage may be effected only by a radio dealer.

The receiver can also be supplied to special order for any other mains voltage.

Installation

Aerial

Good results will be obtained with a single-wire outdoor aerial, about 75 feet long, installed as high as possible.

The aerial and the lead-in wire must be perfectly insulated and should be kept well clear of high trees, climbing plants, buildings, etc. Hard copper wire S.W.G. No. 18 is recommended for the aerial wire.

The use of Philips aerial discharger type 4382 is strongly recommended — this will safeguard the receiver against heavy discharges due to atmospheric influences. The discharger should be connected as shown in fig. 1.

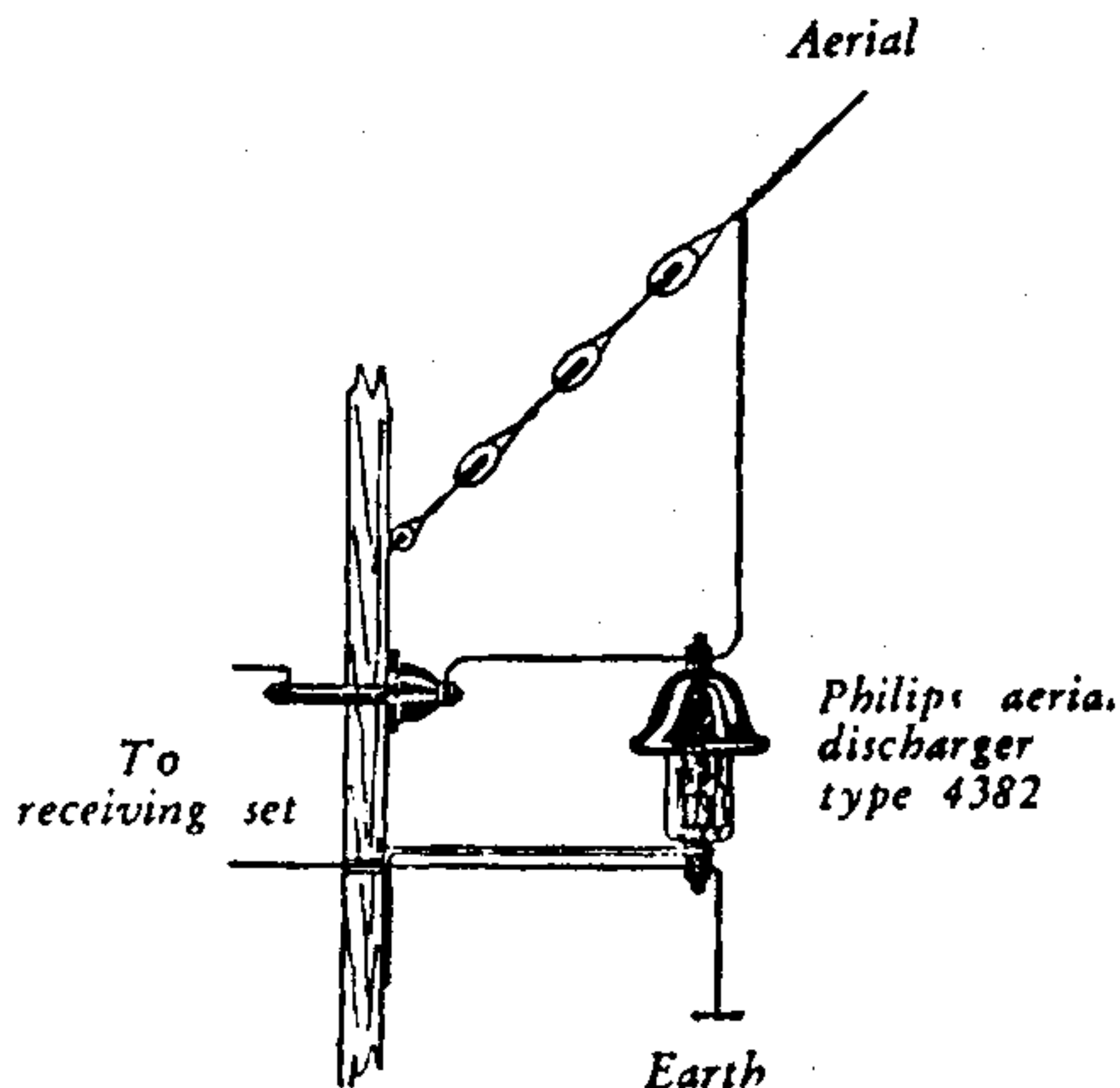


Fig. 1

Earth connection

A good earth can be obtained by making connection either to an earthing tube driven into or a metal plate buried in damp soil.

As a rule, a good connection to a clean main water-pipe by means of a clamp will be found sufficient.

The earth connection must be as short and direct as possible.

Gas mains or central heating systems should under no circumstances be used as an "earth".

Preparing receiver for use

Remove the lid at the rear after pressing the knob underneath the set.

Carefully remove all packing and insert the valves as shown in fig. 2.

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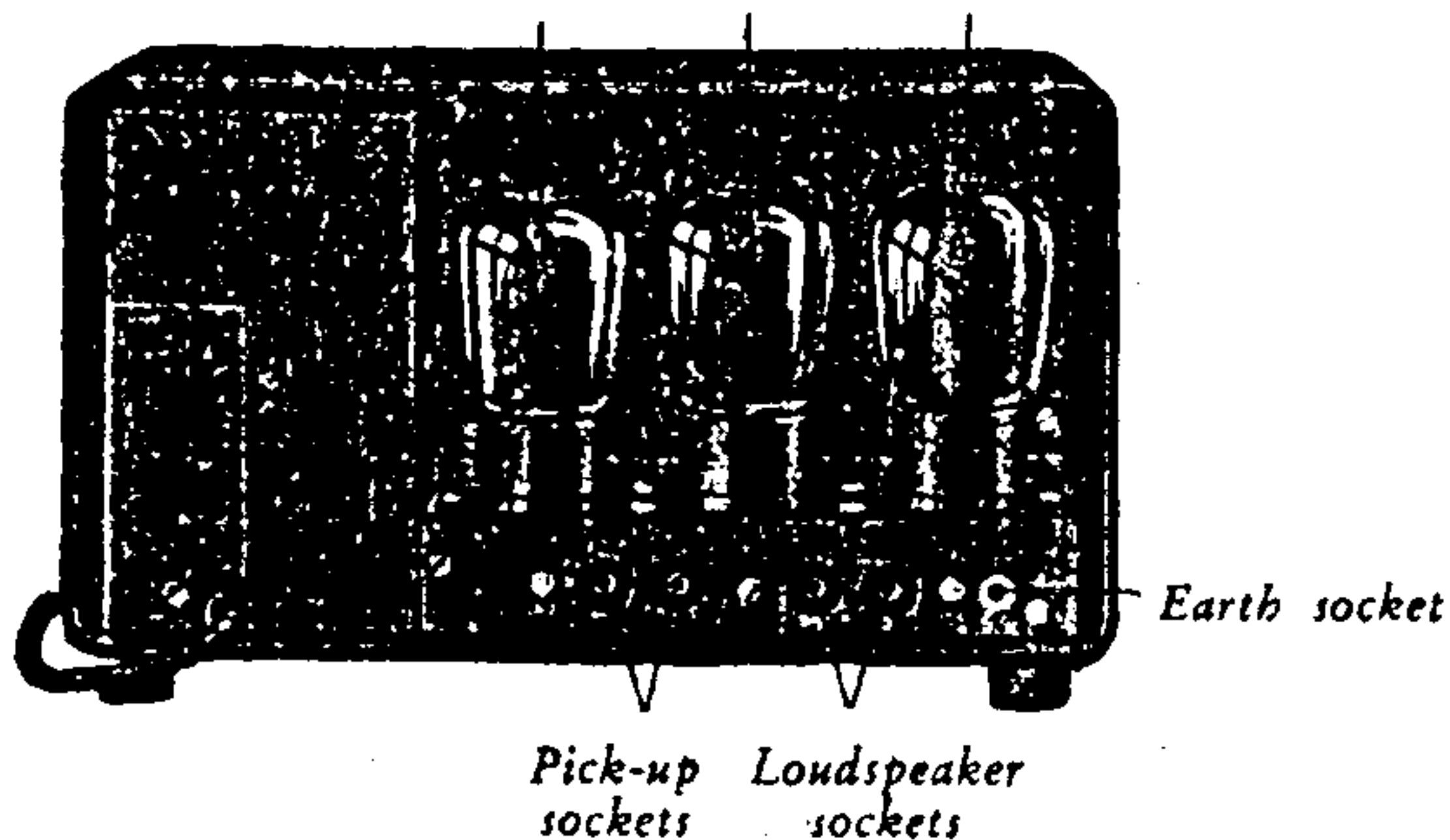



Fig. 2

Then connect the earthing lead to the socket marked "". The aerial must be connected to the uppermost of the three sockets at the left (see fig. 3). Insert the loudspeaker plug(s) in the sockets marked "L".

Finally, close the lid and insert the two-pin mains plug in a wall-socket (see page 2).

When reverting to radio reception, withdraw the pick-up plugs from their sockets.

Switching off

The set is switched off by pressing the mains switch downwards.

If the set will not operate

When the foregoing instructions have been properly carried out, the receiver should give entire satisfaction, the set having been thoroughly tested before being packed.

If, after having been installed, the set does not work quite satisfactorily, the following possibilities should be considered.

- 1) The valve pins may make defective contact; push them well home in their sockets.
- 2) The aerial, earth, mains or loudspeaker connections may make poor contact. Go over all these.
- 3) The loudspeaker may be wrongly connected. Check this.
- 4) If an aerial-earth switch is used, it may be in the wrong position. Check this.
- 5) The mains socket may not be alive. It can be tested, e.g. with Philips current and polarity indicator type 4016 or with a table lamp.

If a valve does not get warm after the set has been switched on for some time, it may have become defective. You can make sure by substituting another valve of the same type.

Should the set develop a fault consult your dealer, who will if necessary communicate with us.

Guarantee

Philips guarantee this receiver against manufacturing defects or faulty material, for the period of one year from the date of purchase, in accordance with the terms of the form of guarantee enclosed with each instrument. The "customer's guarantee procedure" card should be read very carefully.