

PHILIPS

HI-Z STEREO

INSTALLATION INSTRUCTIONS

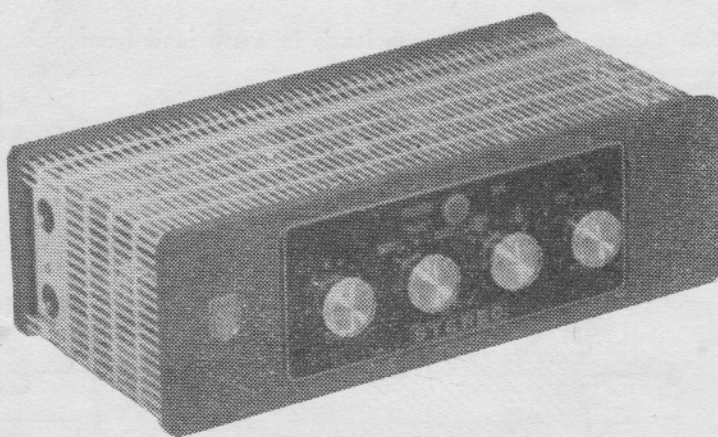
FOR

PHILIPS STEREO-MATE

SECOND-CHANNEL AMPLIFIER A2Z95A

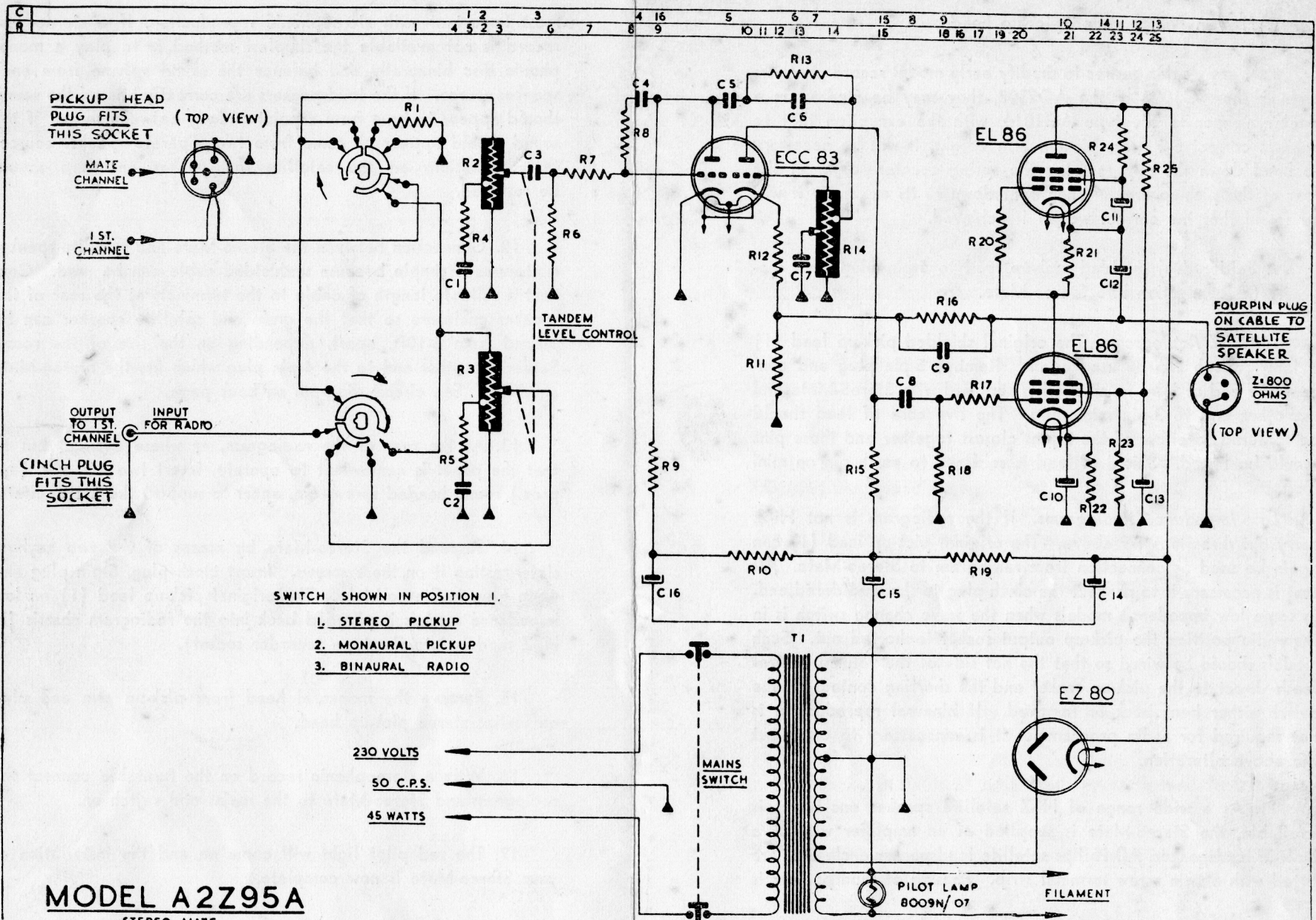
AND PHILIPS HI-Z STEREO

SATELLITE LOUDSPEAKER ENCLOSURES



step up to HI-Z STEREO with PHILIPS





| | | | | | | | | | | | | | | | |
|-----|--------|--------|--------------|-----|---------|--------|---------------|-----|------------|--------|---------------|-----|-----------------------------|--------|--------|
| C1 | 22 K | 125 V. | MYLAR | C13 | 8 MFD | 300V. | ELECTROLYTIC | R7 | 56 K | 1/4 W. | CARBON | R19 | 1K5 | 3/4 W. | CARBON |
| C2 | 22 K | 125 V. | " | C14 | 40MFD | 350V. | " | R8 | 470 K | 1/4 W. | " | R20 | 1K | 1/2 W. | " |
| C3 | 10 K | 350 V. | CERAMIC | C15 | 40MFD | TRIPLE | ELECTROLYTIC | R9 | 100 K | 1/2 W. | " | R21 | 150 Ω | 1 W. | " |
| C4 | 820 mF | 350 V. | " | C16 | 20MFD | " | " | R10 | 2K7 | 3/4 W. | " | R22 | 150 Ω | 1 W. | " |
| C5 | 10 K | 350V. | " | | | | | R11 | 220 Ω | 1/2 W. | " | R23 | 47 K | 3/4 W. | " |
| C6 | 390 mF | 35 V. | " | | | | | R12 | 1 K | 1/2 W. | " | R24 | 6K8 | 3/4 W. | " |
| C7 | 1K5 | 350V. | " | | | | | R13 | 330 K | 1/4 W. | " | R25 | 16K5 | 1 W. | " |
| C8 | 10 K | 600 V. | PAPER | | | | | R14 | 50K + 450K | CARBON | POTENTIOMETER | | | | |
| C9 | 150 mF | 350V. | CERAMIC | R1 | 220K | 1/4 W. | CARBON | R15 | 100 K | 1/2 W. | CARBON | | | | |
| C10 | 50 mF | 25V. | ELECTROLYTIC | R2 | M2 + M8 | LOG | TANDEM | R16 | 33 K | 1 W. | " | T1 | POWER TRANSFORMER V4 G31-13 | | |
| C11 | 8 mF | 300V. | " | R3 | M2 + M8 | CARBON | POTENTIOMETER | R17 | 1 K | 1/4 W. | " | | | | |
| | | | | R4 | 25 K | 1/4 W. | CARBON | | | | | | | | |
| | | | | R5 | 25 K | 1/4 W. | " | | | | | | | | |

MMA 2-59

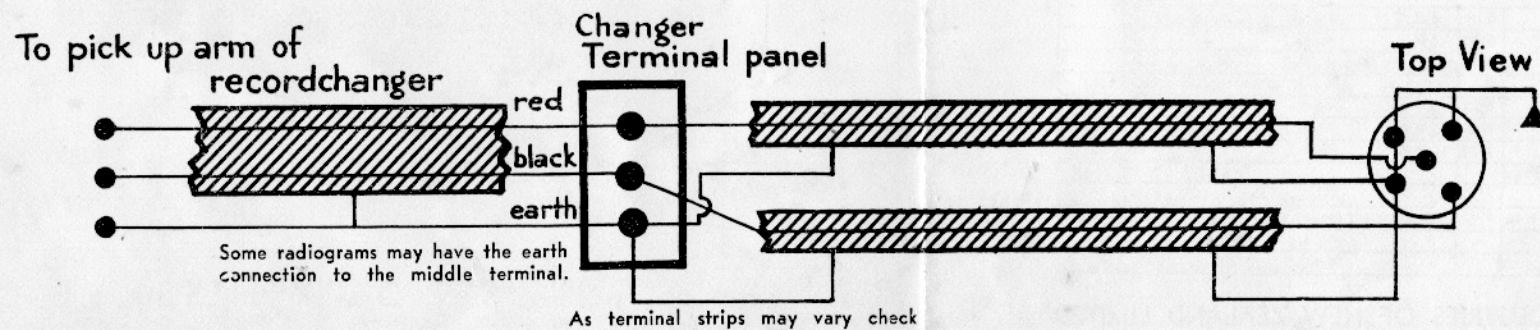
Step up to HI-Z STEREO



Any Philips radiogram fitted with crystal pick-up heads can "Step up to Hi-Z Stereo" in combination with Philips Stereo-Mate and Hi-Z satellite speaker enclosure. Just follow these simple instructions:—

To convert your Philips Recordchanger (AG1003, AG1014, AG1005) for Stereo use—

1. Unsolder shielded pick-up lead from changer to radiogram.
2. Remove resistor at changer terminal panel.
3. Remove connection between black lead from pick-up arm to earth.
4. Connect two separate shielded leads respectively to black and red from pick-up arm.
5. Connect shields of both leads to earth lead from pick-up arm.
6. Adjust counterbalance lever at base of pick-up arm for 5-6 grams (left-hand slot).



7. Plug in Philips stereo pick-up head.

8. If any dealer desires to modify early model record changers such as the AG1000 or the AG2508, they may be treated in a similar manner to the type AG1014, with the exception that to achieve correct 5-6 gram pick-up arm weight, it will be necessary to bend down the clip securing the spring counter-weight at the rear of the pick-up arm. When bent down to its extremity it will be found that the correct weight is achieved.

9. Solder dual shielded pick-up lead to 5-pin plug (see diagram) for connection into Stereo-Mate.

10. *Hi-Z Radiograms.* The original shielded pick-up lead (1) if long enough can be used again. Remove 5-pin plug and connect one end of lead to cinch plug supplied with Stereo-Mate and the other end to 3-pin mini plug. The live core of lead should be soldered to either of the 2-pins closest together and these pins should be linked. Shield of lead is soldered to earth pin on mini plug.

Low Impedance Radiograms. If the radiogram is not Hi-Z, carry out directions 1-9 above. The original pick-up lead (1) can again be used as connection from radiogram to Stereo-Mate. All that is necessary is to connect the cinch plug to the unsoldered end. In some low impedance models when the wave change switch is in the radio position the pick-up output socket is shorted out. Such models should be wired so that the hot side of the volume control feeds direct to the pick-up socket and the shorting contact on the switch either bent back or removed. If binaural reproduction is not required for radio programmes it is unnecessary to carry out the above alteration.

11. As a wide range of Hi-Z satellite speaker enclosures is available, the Stereo-Mate is supplied as an amplifier without a built-in loudspeaker. All Philips satellite loudspeaker enclosures are fitted with a twin screw terminal strip. Phasing of loudspeakers is

most important with stereophonic reproduction. If a stereo test record is not available the simplest method is to play a monophonic disc binaurally and balance the sound volume from each speaker source. If the loudspeakers are correctly phased the sound should appear to issue from a point midway between them. If the sound should appear to come from two separate speaker sources the connections on the satellite loudspeaker enclosure should be reversed.

12. Connection between the Stereo-Mate and satellite speaker enclosures is simple because unshielded cable can be used. Connect a suitable length of cable to the terminals at the rear of the speaker enclosure so that the gram and satellite speaker can be placed from 6-10ft. apart, depending on the size of the room. Solder the other end to the 4-pin plug which fits the Stereo-Mate amplifier. See circuit diagram on back page.

13. At the rear of the radiogram, or where desired, but so that the panel is convenient to operate, insert two 1in. x 7 (approx.) round headed screws 6in. apart to support the Stereo-Mate.

14. Suspend the Stereo-Mate by means of the two keyhole slots, resting it on these screws. Insert cinch plug, 5-pin plug and 4-pin plug in Stereo-Mate. The original pick-up lead (1) on low impedance models is plugged back into the radiogram chassis (in Hi-Z models into the tape recorder socket).

15. Remove the monaural head from pick-up arm and plug on Philips stereo pick-up head.

16. With a stereophonic record on the turntable connect the radiogram and Stereo-Mate to the mains and switch on.

17. The red pilot light will come on and the installation of your Stereo-Mate is now complete.

DIMENSIONS

Dimensions: Stereo-Mate—12in. wide x $3\frac{3}{4}$ in. deep and $6\frac{1}{8}$ in. high.

Valves: EZ80, 2 x EL86, ECC83.

Power Consumption: 45 watts.

Mains voltage: 230 volts.

*Philips Radiograms, Radios and Phonographs have Stereobility—
they are planned to "step up to Stereo" quickly and economically.*