POWER OUTPUT:

4 Watts

FOR OPER.TION FROM:

200-240 Volt 50 cycle AC. Mains (Power Transformer T119) Power trans. Primary Tap, red-common. 200-250 Volt 40 or 50 cycle AC. Mains (Power transformer T120) green-200 Volt mains. Power trans, Primary Tap, red-common = =

POWER CONSUMPTION:

SERVICE INSTRUCTIONS (ELECTRICAL)

EQUIPMENT:

Audio Signal Generator Output Meter

TEST CONDITIONS:

maximum (fully clockwise) treble (fully clockwise) Volume Control: Tone Control Audio Signal

1000 CPS.

Generator

Signal Generator

0.1 Volt. Output Meter Out put

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Connected across secondary winding of output transformer. (Speaker voice 2.5 Ohms impedance coil disconnected)

Mains Input Voltage

230 Volts 50 cycle AC. input to power trans-former 230-240 Volt primery tap.

SOCYCLE AC INPUT. 830 &240V BLACK GREEN < PBIOSI I ZOSSI MODEL-BST 000000 \$ 18K \$€0 A€-9A XBI (1) NOWWO ZA3TA3H OT 999 (2) (G) (I)8W89 \$520K \$® (E) \$ BROWN **₩** Z+0.1 (E) ¥4.4 € ×....} ≹® wi.∤ **∳** ₩ MI W E S ***** ***** **** ¥0∠≯ ∰ 。 ⑨ 69 [@] _______ Z+0.1 (3) (1)8M89 ত ©8W89 **9**V**9**9 ¥SI ***** ŗ<u>‡</u> ∭

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MODEL "BST" AUDIO AMPLIFIER

green-200 Volt mains. black-230 & 240 Volt mains.

black-230-240 Volt mains. white-250 Volt mains.

44 Watts approx.

AUDIO AMPLIFIER GAIN TEST:

The amplifier chassis does not have to be removed from the cabinet to check the overall gain of the amplifier.

IMPORTIANT: Before disconnecting leads from low frequency speaker voice coil terminals, note the lead colours to ensure correct phasing of the speaker when the leads are reconnected.

- A. Set frequency of audio generator to 1000 cycles.
- B. Adjust output level of generator to 0.1 Volt.
- C. Disconnect leads from voice coil terminals on speaker.
- D. Connect output meter across secondary of output transformer.
- E. Connect audio signal generator output lead to input plug on free end of amplifier input lead.
- l. Generator output lead 'active' to amplifier lead plug centre contact.
- Generator output lead 'non-active' to amplifier lead plug metal casing.
- F. Turn ON/OFF switch tone control fully clockwise also volume control fully clockwise.
- G. With a signal input of 0.1 Volt applied to amplifier input, the output meter should indicate a minimum of four watts output. (2.5 Ohms impedance, output meter across transformer secondary, speaker voice coil disconnected).

STEREOPHONIC REPRODUCTION AND SPEAKER PHASING:

STEREOPHONIC REPRODUCTION: The Model 'BST' amplifier/speaker unit may be connected to a gramo/audio amplifier for Stereophonic reproduction provided the gramo/audio amplifier incorporates a Stereo cartridge in the pick-up head and has the leads from the Stereo cartridge connected to the channels as detailed below.

- A. The output lead from one channel connected to the input of the audio amplifier in the gramo/audio amplifier unit.
- B. The output lead from the other channel connected to a socket situated somewhere on the gramo/amplifier cabinet. Into this socket is inserted the plug on the end of the input lead from the Model 'BST'.

SPEAKER PHASING: When Model 'BST' audio amplifier unit is connected to a gramo/audic amplifier for Stereophonic reproduction, it is essential that the speakers in both units be phased correctly.

A method used for checking the phasing of the speakers is detailed in the following paragraphs.

- Connect the plug on the end of the amplifier input lead of the Model 'BST' to the Stereo channel socket of the gramo/ audio amplifier.
- 2. Place the Model 'BST' cabinet approx. four feet to one side in line with the speaker cabinet of the gramo/audio amplifier.
- 3. Play a monophonic record and accurately adjust the cutput of each speaker to the same volume.
- 4. To conduct the following test the listener should be located in a position midway between the speaker cabinets and approx. four feet away in front.
- 5. If the phasing is correct the reproduced sound will appear to be radiated from a point midway between the two speakers.
- 6. With incorrect phasing the quality of reproduction will be poor, it will appear to be lacking in bass response and will appear to be radiated from both speakers.
- 7. If the speakers are incorrectly phased, reverse the leads connected to the voice coil terminals of the low frequency speaker of the Model 'BST' then repeat the test detailed above.

