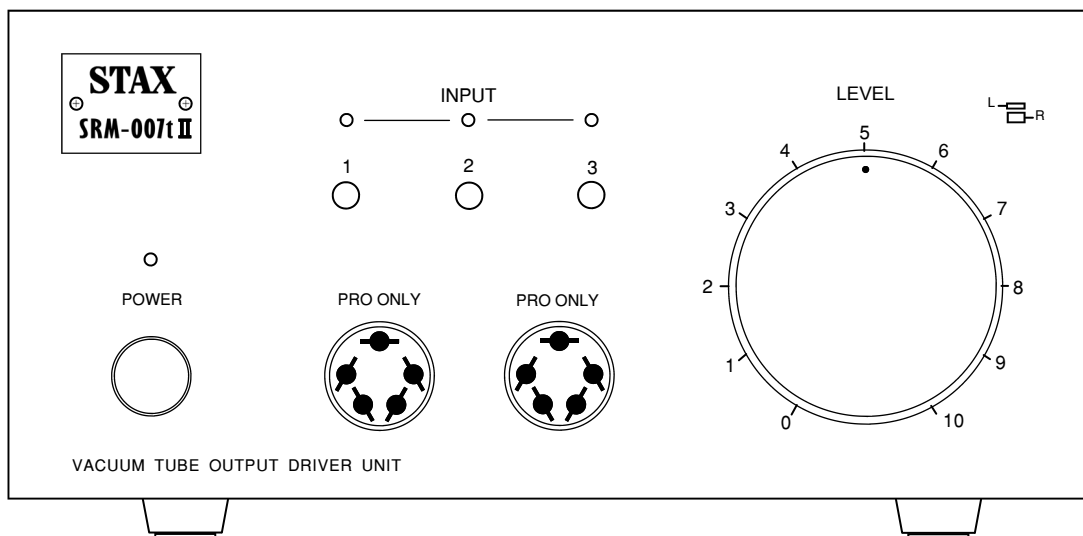


SRM-007t II

VACUUM TUBE OUTPUT DRIVER UNIT FOR EARSPEAKERS

Operating Manual

Thank you very much purchasing STAX's SRM-007t II model. To enable you to use the unit in complete safety for many years, please read these instructions carefully. After reading them, be sure to keep them in a safe place together with the product guarantee.



CAUTION



This product operates with a high voltage. It is extremely dangerous to attempt to dismantle or modify the unit in any way, and under no circumstances should any such attempt be made.

STAX®

To Ensure Safe Use of Your Product

● Illustrations for viewing prior to use.

This manual makes use of various illustrations which have included to enable you to use your product with complete safety. The situations likely to arise if these illustrations are ignored and the unit is used in the wrong way may be classified as follows. Please read the text and make sure you understand it fully.

 Warning	We have shown situations in which ignoring these illustrations and using the unit in the wrong way may result in death or serious injury.
 Caution	We have shown situations in which ignoring these illustrations and using the unit in the wrong way may result in personal injury and situations in which material damage may arise.



This sign informs you of situations that require precautions (including warnings). The example on the left indicates precautions against electric shock.






This sign informs you of a prohibited action. The example on the left indicates prohibition on dismantling.





This sign informs you of an action which must invariably be performed. The example on the left indicates removal of the plug from the power socket.

Warning

	<ul style="list-style-type: none"> ● Do not take out the power plug or the earpiece speaker plug with wet hands. Doing so may result in electric shock. ● Use only the specified power source. ● Do not modify, forcibly bend, twist or pull the power cord. ● Do not block the radiator vent on the top of the unit. ● Do not insert metallic objects, liquids or any other objects into the SRM-007tII driver unit. ● Do not touch the ear speaker's output terminals.
	<ul style="list-style-type: none"> ● If the unit begins to emit smoke or an odd smell, stop using it immediately and turn off the power. Continued use in such a condition may result in fire and electric shock. It is dangerous to attempt to repair the unit yourself. If the unit needs repairing, always consult your dealer or the Stax service department.
	<ul style="list-style-type: none"> ● Do not remove the back lid or the cover. Repairs and inspections inside the unit should be entrusted to the store where you purchased the product or to an authorized distributor. ● Do not dismantle or modify the unit.

Caution

	<p>Do not put the product in any of the following places. Doing so may result in personal injury or may damage the unit.</p> <ul style="list-style-type: none"> ● A place subject to vibration or shock or on a slope. ● A place directly exposed to sunlight. ● A place with large amounts of water, moisture or dust. ● A place with extreme variations in temperature or close to a source of heat emission (e.g. stove, heater, etc.). ● Do not place heavy items on top of the unit. Doing so may unbalance the unit, causing it to tip over or fall down and thus cause personal injury.
	<ul style="list-style-type: none"> ● Do not drop the unit or submit it to shock of any kind. (The product makes use of a vacuum tube.) ● Do not raise the volume too high. Listening for a long time at a high volume may result in damage to your ears. For the sake of your ears and for the sake of the product itself, we would recommend listening at a moderate volume.

Features

SRM-007tII is an amplifier (driver unit) created especially for driving STAX electrostatic speakers in an ideal manner. It houses a high sound quality four-gang volume control and includes XLR balance input. It can be connected to analog voice outputs with any kind of line level.

- For the load resistance SRM-007tII makes use of DALE non-inductive winding resistance, which is highly reputed for its outstanding sound quality, thereby realizing a clear and undistorted sound quality.
- The first stage of SRM-007tII makes use of a rigorously selected low-noise FET. At the output stage, selected high voltage dual triodes are connected in parallel with the effect of lowering output impedance. This results in an expansion of the dynamic range especially in the mid and high frequency.
- SRM-007tII is a hybrid DC amplifier with a simple structure. It does away with the need for coupling condensers, which affect sound quality, and realizes a natural and straightforward sound.
- Consideration of sound quality and performance, the electronic components of SRM-007tII comprise rigorously selected parts that are subject to very little temporal change.
- The XLR (balance) input terminal of SRM-007tII comprises a pure balance amplifier with a simple two-stage amplifier circuit that does not pass through a transformer or an inversion amplifier, etc.
- The heater used in SRM-007tII has brought about an increase in the SN ratio through its housing of a low-ripple DC power source using a low-loss, low-noise Schottky barrier diode and a large electrolytic capacitor.
- SRM-007tII is equipped with three systems of input terminals. In addition to the two systems of RCA inputs, XLR balance input can also be used on its own.

Precautions for use

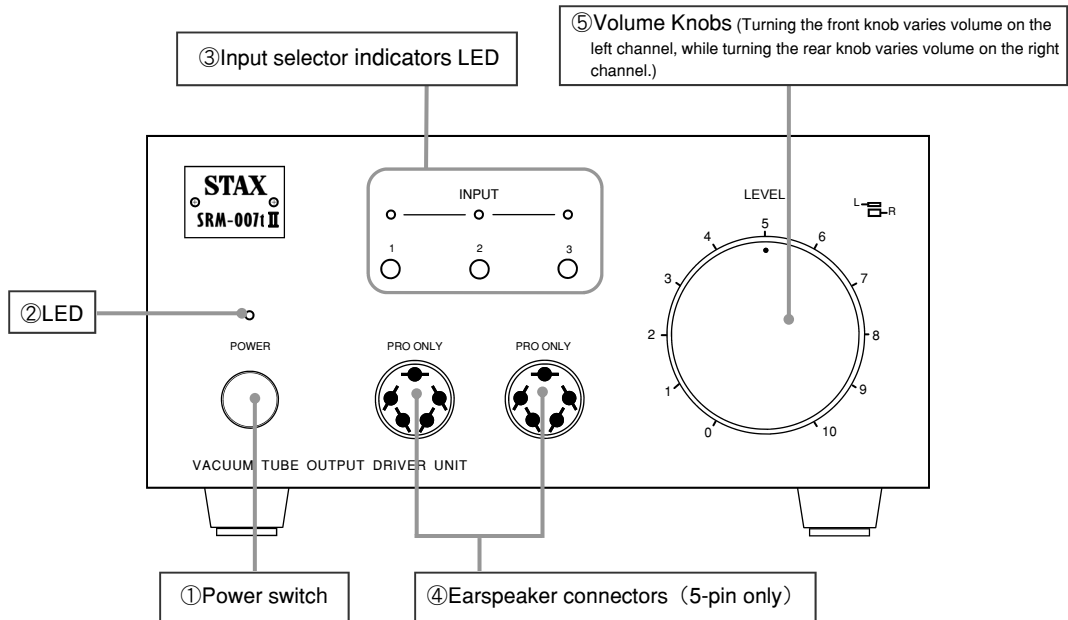
- High-voltage parts are used inside this unit, and it is thus potentially dangerous. Do not remove the top cover or the base plate and do not use in places onto which water may leak or in places where large amounts of dust accumulate.
- The unit emits heat because of its use of a vacuum tube. Do not block the vents at the top and bottom.
- After turning on the power switch on the front panel the orange LED on the front panel will flash for about 18 seconds (the amount of time needed for the heater of the vacuum tube to warm up). It will enter the operating state when the light comes on continuously. If you inadvertently turn the power switch off during use, take care because the LED will begin to flash again and no sound will be omitted for around 18 seconds.
- Replacing the vacuum tube will result in stress being applied to the print board and may cause the unit to break down. SRM-007tII will need adjusting if the vacuum tube is replaced. Please consult the STAX Service Department.

Instructions for use

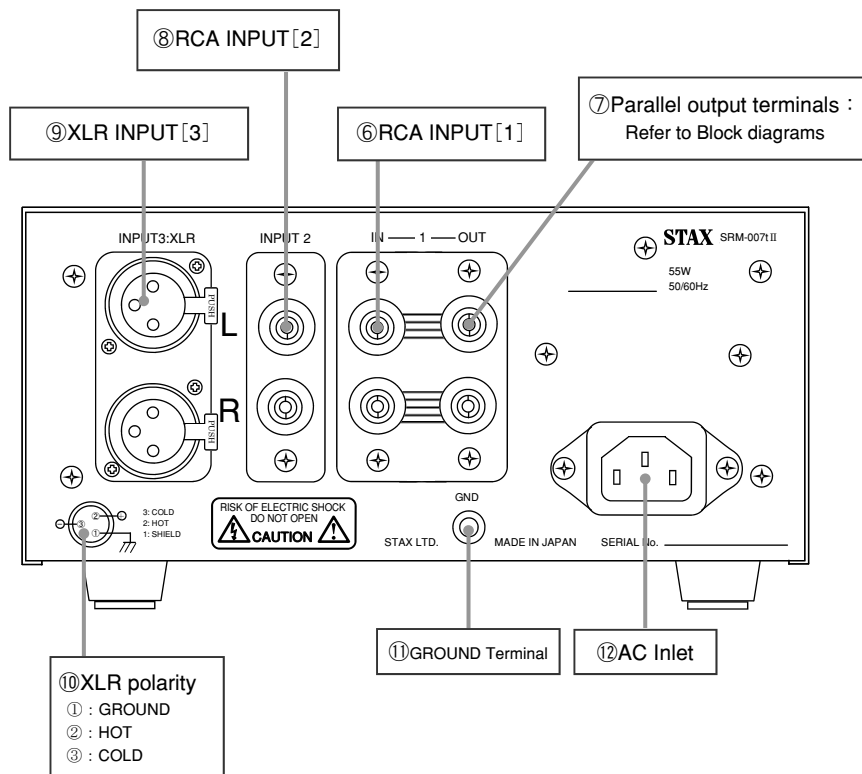
- Insert the attached power cord into the AC Inlet (12) on the rear panel, insert the AC plug into a wall socket, and press the power switch (1) to turn the power on.
- The Pilot Lamp (2) will flash for about 18 seconds while the heater of the vacuum tube is warming up. It will enter the operating state when the light comes on steadily.
- Connect the source unit to which you wish to listen to the input terminals on the rear panel. You can then select the attached source unit using the Input Switch (3) on the front panel. (Input 1 is selected when you turn on the power.)
 - (6) Input 1: RCA pin jack input terminal
 - (7) Input 2: RCA pin jack input terminal
 - (8) Input 3: XLR balance input terminal
 - (9) Output: The signal from the connected source unit appears as it is with the through output of Input 1.
- Insert the earspeaker you are going to use into the Earspeaker Power Socket (4) on the front panel, and gradually turn the Volume Knob (5) to the right until you achieve the desired volume.
- Turning the front part of the double knob by itself enables you to adjust the left channel, while the right channel can be adjusted by turning the back part of the knob. Adjust the balance between the left and the right channels in this way.
- Another way of connecting involves use of a commercially available mini-stereo plug to RCA plug conversion cable and a conversion connector. This makes it possible to use the unit in connection with portable units equipped with TV headphone terminals and mini-jacks.

Panel Nomenclature

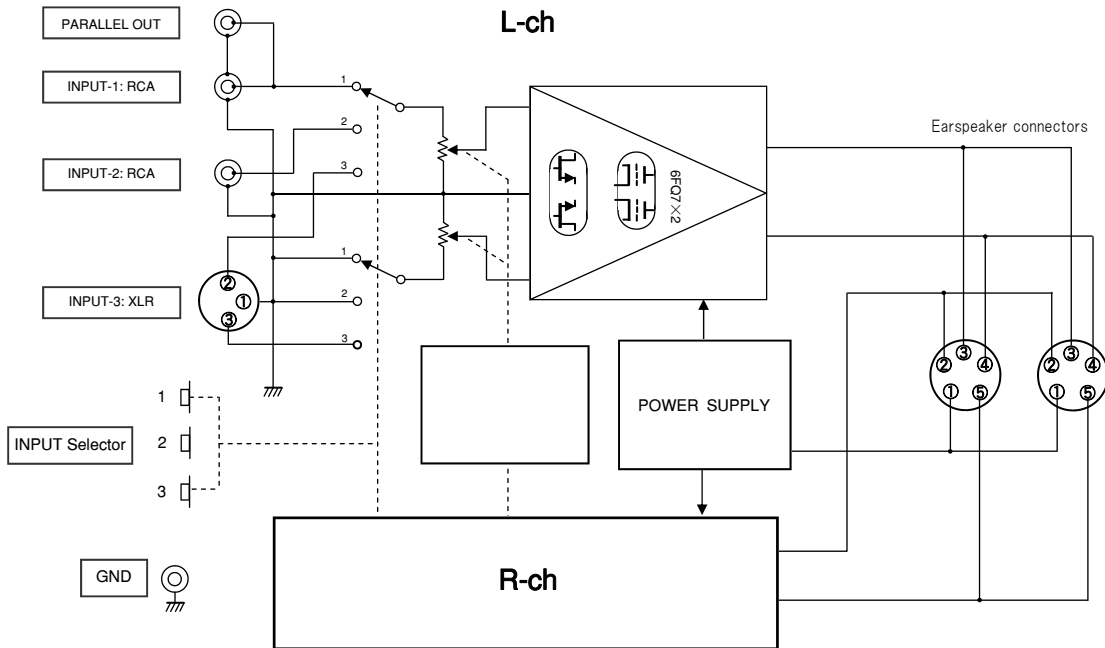
【Front Panel】



【Rear Panel】

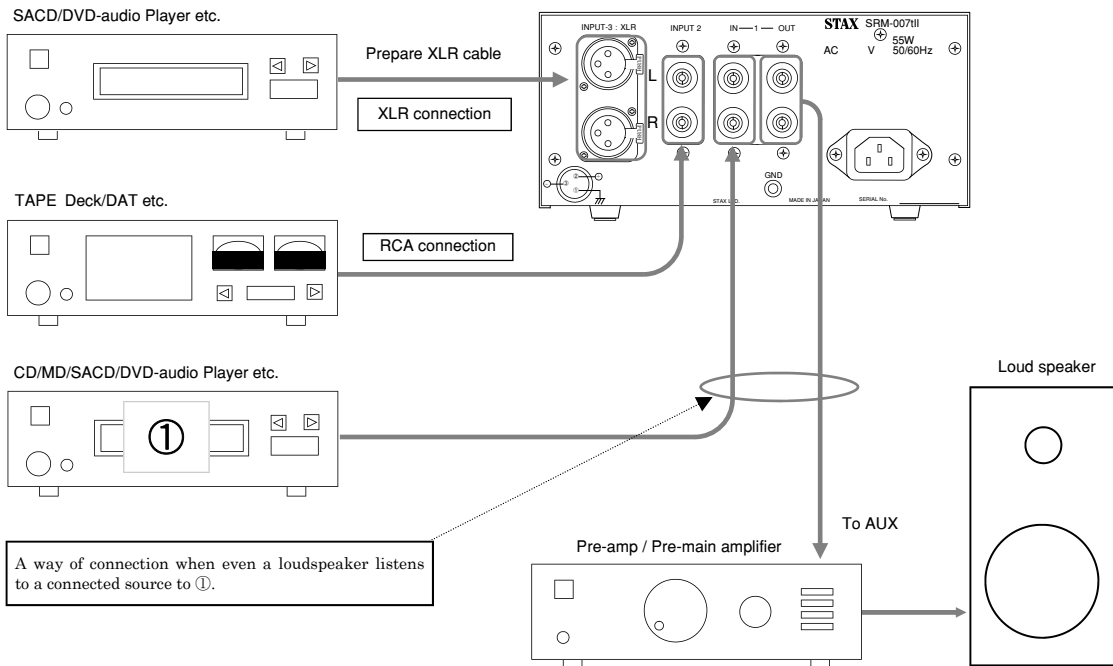


Block Diagrams



● (PARALLEL OUT) : Parallel Out: In the case of this output terminal, the signal from the source connected to INPUT-1 as shown in the block diagram is output as it is. This can be used when distributing signals from input sources to other devices, for instance when connecting to a loudspeaker amplifier.

Example of connection



Troubleshooting Notes

No sound:

- Is the AC cord inserted into the power socket?
- Is the power switch on?
- Is the LED for the vacuum tube heater flashing?
- Is there a fault in the connecting cable?
- Have you used the selector switch to select the connected input?

Distortion:

- Has the AC power voltage fallen to an abnormal level?
- Distortion will arise if the volume is turned up too high.

Imbalance between left and right:

- Is the input signal normal?
- Is there a faulty contact in the cable, etc.?
- Imbalance between left and right can be corrected by adjusting the double-shafted knob.

Humming noise:

- Are the input terminals properly connected?
A humming noise may result if the earth side of the cable is insecure.
- In the event of a humming noise, try connecting the earth of this unit to the earth of another device.
- Is there a faulty contact?
- Is the power voltage normal?
- Humming may be caused by the presence of another device nearby. Is there a device using a large transformer or an electronic cooker nearby? If so, place the devices further apart.

If any other symptoms should arise that suggest that a fault may have occurred, please consult the dealer from whom you purchased the product or the distributor.

Specifications

- Frequency properties: DC-100 KHz / +0, -1.5 dB
SR-007 or SR-404 Signature, when using 1 unit
- Rated input level: 200 mV / 100 V Outputs
- Maximum input level: 30 V r.m.s. / at Minimum volume
- Amplification: 54 dB (x 500)
- Total harmonic distortion: 0.01% / 1 KHz, 100 V r.m.s. output SR-007 or SR-404 Signature, when using 1 unit
- Input impedance: 50 K Ω / XLR balance 50K Ω x 2
- Number of inputs: RCA 2, XLR 1 (balanced)
- Maximum output voltage: 340 V r.m.s. / 1 KHz
- Standard bias voltage: DC 580 V
- Power voltage: 120-240V 10%, 50 to 60 Hz
- Power consumption: 55 W
- Temperature range for use: 0 to 30°C
- External dimensions: 195 (w) x 103 (h) x 420 (d) mm (including VR knob and pin jack (20 + 10))
- Weight: 4.7 Kg
- Vacuum tubes: 6FQ7/6CG7 type x 4

The standards and external appearance of this unit may be changed without prior notice in order to make improvements.

Life of the vacuum tubes and their replacement:

- The vacuum tube used in SRM-007tII is highly reliable and has been manufactured using state-of-the-art facilities. However, its nature means that its life is restricted. If you find that the tone quality has begun to lose its clarity during use, please submit the unit for inspection and adjustment.
- Since SRM-007tII is a DC amplifier, the DC balance will need to be adjusted when the vacuum tube is replaced. Please get in touch with the dealer from whom you purchased the product or a distributor authorized to handle STAX products.

STAX® STAX LTD.

7-1 Chikumazawa-higashi, Iruma-gun, Saitama-Prefecture, Japan
TELL: +81-49-258-2660 FAX: +81-49-258-2659

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