

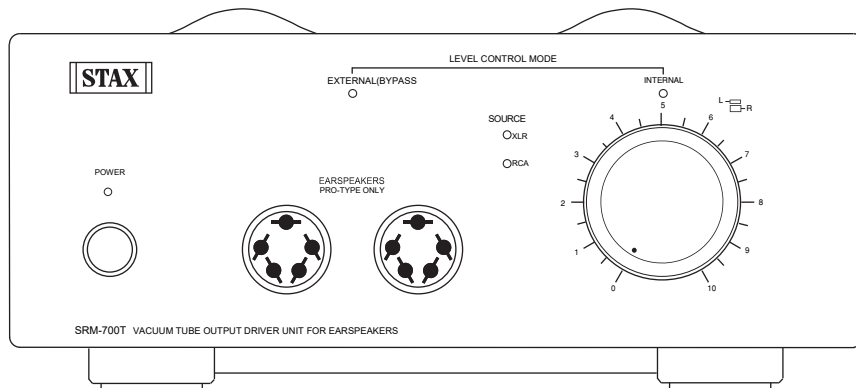
SRM-700T

VACUUM TUBE OUTPUT DRIVER UNIT FOR EARSPEAKERS

(Amplifier for STAX Headphones)

User's Manual

Thank you very much for purchasing the SRM-700T vacuum tube output driver unit for STAX earspeaker. Please read this manual carefully in order to use the unit safely and to bring out its maximum performance for many years of listening pleasure. Please be sure to keep this manual along with the warranty card after reading.





**This product contains high-voltage circuitry.
To avoid dangerous electric shock, do not disassemble or remodel the unit.**

STAX®

1. Safety information (Please read first)

● Prior to use - About WARNING/CAUTION marks

Various WARNING and CAUTION marks are used in this manual for safe usage of the unit. The possible danger or trouble caused by disregarding the marks and mishandling the unit are classified as follows. Please read the manual with these WARNING/CAUTION marks in mind.

 WARNING	Disregarding Athis mark and mishandling the unit could result in serious injury or death.
 CAUTION	Disregarding and mishandling this mark might result in injury or physical damage.



This mark urges user to take precaution (warning included).
Left example shows "electric shock" caution.






This mark tells prohibited actions.
Left example shows "disassembly-forbidden".)





This mark tells actions you must take without fail.
Left example shows "pull out plug from wall socket".

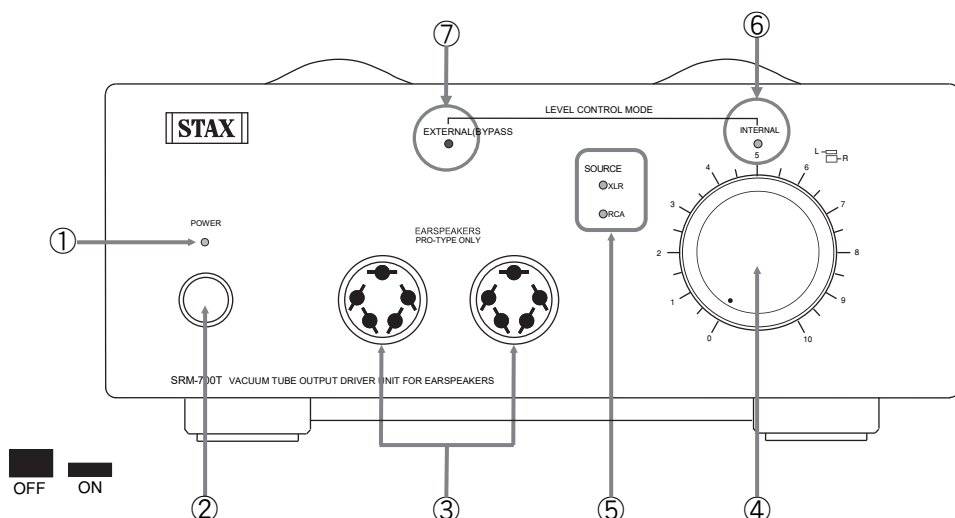
WARNING:

	● Do not pull out or insert mains or earspeaker plug with wet hand to avoid electric shock.
	● Do not use any other mains voltage than indicated.
	● Do not bend, twist or pull the power cable by force, nor remodel it.
	● Do not cover the heat dissipation holes on the top panel.
	● Do not put metal, liquid or other object into the unit.
	● Do not touch the output terminal for earspeaker
	● In case smoke comes out or unusual smell or sound is perceived, stop using and shut off the power immediately, and then pull out mains plug from wall socket. Further using the unit involves the risk of a fire or electric shock, etc. It is dangerous for a customer to repair the unit. Please contact your audio shop or the service division of our company.
	● Do not remove the bottom plate or the top cover.
	● Do not attempt disassembly or remodeling.

CAUTION:

	Do not put this product on the following places. Otherwise, it may cause injury or unit failure.
	● Places sensitive to vibration or shock, slanted or exposed to direct sunlight.
	● Places with much moisture, humidity and dust.
	● Places where temperature differs intensely or near heating appliance (stove, heater, etc.).
	● Do not put earspeaker or any other object on the unit. It may cover the venting holes and cause heat generation resulting in unit failure.
	● Dropping or giving a shock should be avoided. It becomes the cause of failure.
	● Don't raise volume too much. Listening with large volume could lead to hearing damage. Listening with moderate volume is recommended both for your ear and for the unit.

2. Switches and functions (Front panel)



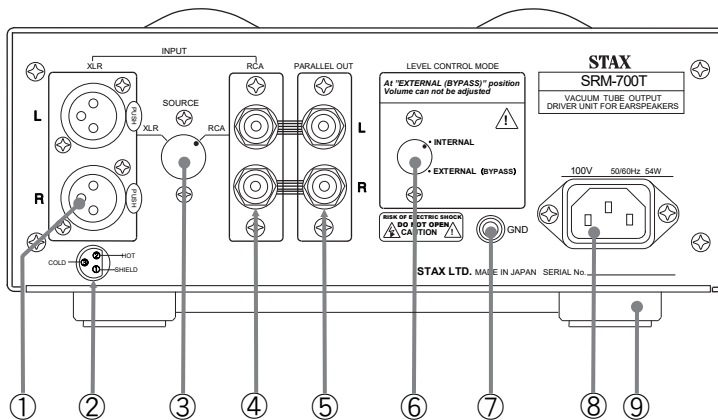
- ① Power indicator LED: this blinks for about 40 seconds after powered on and lights up when the tube heater is warmed up. (Even when the unit is turned on right after it was turned off, the power indicator blinks again likewise.)
 - ② Power switch: pushing in the switch turns the unit on, and pushing it out turns the unit off.
 - ③ Sockets for PRO Type ear speaker: insert 5-pin type ear speaker plug.
 - ④ Volume knob: double-axis structure enables to turn left and right channel simultaneously.
In case right-and-left channel volume is unbalanced, adjust the volume by independently turning the separate volume knobs. The front side is L-CH and the backside is R-CH.
 - ⑤ SOURCE INDICATION: indicates source (XLR or RCA) selected by mode switch on rear panel.
LEVEL CONTROL MODE indication: indicates volume control operation either through the internal volume of the unit, or through the external volume using attenuator or preamplifier.
 - ⑥ INTERNAL: green LED lights up and level can be controlled by internal volume.
 - ⑦ EXTERNAL: red LED lights up and level can be controlled by preamplifier or external volume.
- * **CAUTION:** Volume level cannot be controlled by the unit volume controller when red LED is lit up.

3. Precautions for use

- There are high-voltage dangerous sections inside the unit. Do not remove the top cover or the bottom plate, and avoid using the unit in humid or dusty places.
 - Since the driver unit generates heat, do not cover the venting holes on the top, side and bottom plates.
 - Put it in an airy place if possible, and when installing it in a rack etc., keep 5cm or more opening above the upper and side surface of the unit.
 - Do not use the unit with side panel down.
- Since the degree of adhesion of foot is very high, be careful when moving the unit.
- Take care when "LEVEL CONTROL" is in "EXTERNAL" position, because in this position the volume of this unit is bypassed and the volume is not controlled.
- Since large volume may come out, do not switch "LEVEL CONTROL" to "EXTERNAL" when wearing your ear speaker.

4. Switches and functions (Rear panel)

Factory default: RCA input with incorporated volume, "INTERNAL" selected.



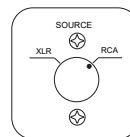
① XLR input terminal: connects to equipments with XLR balanced output.

② XLR polarity indication: XLR balance input polarity is 1-SHIELD, 2-HOT, 3-COLD.

When connecting to equipments with 3-HOT, use commercially available polarity conversion adaptor or conversion cable.

③ Source selector: selects either XLR input or RCA input.

④ RCA/XLR input : Factory default is RCA input.



Factory default:
RCA input.

⑤ PARALLEL OUT (through output):

PARALLEL OUT terminal directly outputs source signals connected to RCA.

It can be used for connection to another driver unit or to the amplifier to drive loudspeaker.

Remove the cable when equipment connected to PARALLEL OUT is not used.

* It may happen that the sound is distorted when the equipment connected to PARALLEL OUT terminal is powered off.

In this case, turn on the equipment or disconnect the cable.

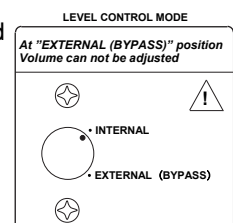
STAX SRM series connected to PARALLEL OUT terminal does not affect sound even when powered off if the volume controller is set at minimum position.

⑥ LEVEL CONTROL MODE selector: factory default setting is "INTERNAL".

This indicates volume control operation either through the internal volume of the unit, or through the external volume using attenuator or preamplifier.

- INTERNAL: green LED lights up and level can be controlled by internal volume.

- EXTERNAL: red LED lights up and level can be controlled by preamplifier or external volume.



* **CAUTION:** at EXTERNAL position, volume level cannot be controlled by unit volume controller.

Be sure to set SOURCE selector either to XLR or RCA to avoid sudden loud volume.

⑦ GND: ground terminal.

In case of hum noise connect this terminal to the ground terminal or to metal part (screw, etc.) of other equipment. Use any available cord for this purpose.

⑧ AC inlet : Insert supplied power cable.

⑨ Foot: Since the degree of adhesion of the foot is very high, be careful when moving the unit. Lift it up when you move the unit.

5. How to use

● Please check before connection that the "power switch" is turned off. (Refer to page 3)

● Connect output terminal of source equipment either to RCA or XLR input.

When connecting to RCA input, use supplied cable, and when connecting to XLR input, use any commercially available cable.

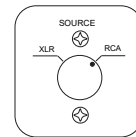


Factory default

● LEVEL CONTROL MODE switch on rear panel selects volume control operation either through the internal volume of the unit (factory default), or through the external volume using attenuator or preamplifier.

Normally set SOURCE selector to factory default "INTERNAL". (Green LED lights up.)

「SOURCE」 selector switch



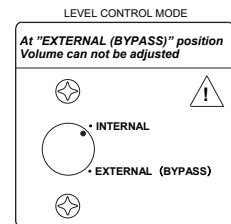
● When "LEVEL CONTROL MODE" switch on rear panel is at "EXTERNAL" position, red LED lights up and signals are directly fed without volume control. Be sure to use external attenuator or preamplifier.

「LEVEL CONTROL MODE」 selector switch

● Insert the socket side of the supplied power cable into the AC inlet on the rear panel and then insert plug side into the wall socket.

● Plug in earspeaker into the earspeaker socket on the front panel.

● When the power switch is pushed orange LED ① starts to blink. After about 40 seconds the LED lights up to show the unit is ready to use when tube heater is warmed up.



● Turn the volume knob slowly clockwise to set optimal volume level.

Turning independently the front part of the double-structured knob adjusts the left channel level, and likewise the backside part of the knob adjusts the right channel level.

The volume balance between left and right channels can be adjusted in this way.

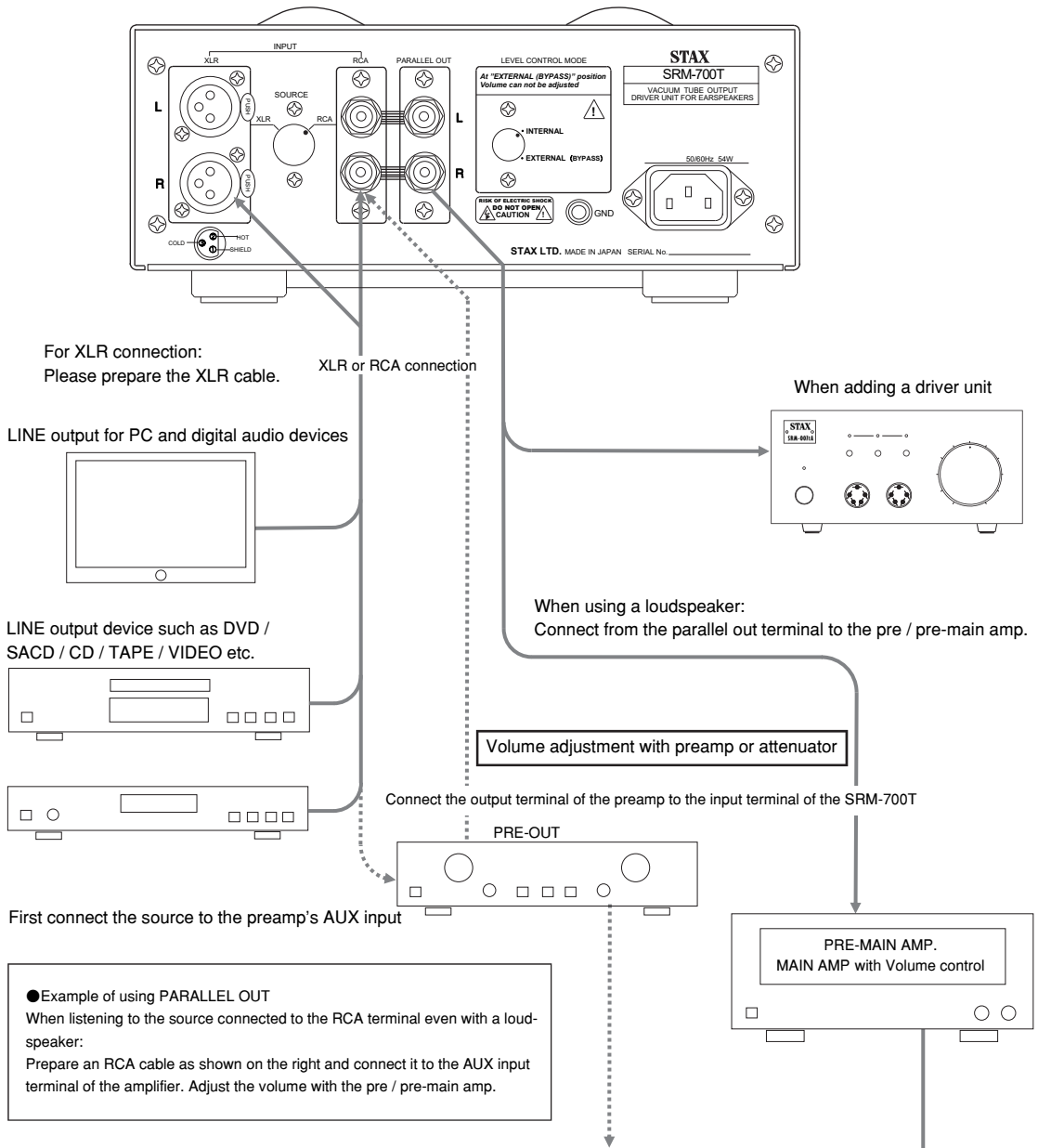
● If the volume level is not loud enough when connected to the "REC OUT" terminal of a preamplifier or integrated amplifier, connect to the "PRE OUT" terminal of preamplifier.

In this case set "LEVEL CONTROL" to "EXTERNAL" position and adjust sound level using the volume controller of preamplifier.

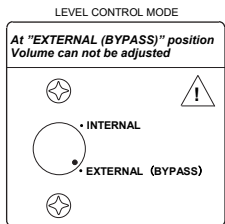
● Other connection possibility: portable audio equipment with headphone jack can also be connected by using a commercially available "stereo mini-plug RCA plug" conversion cable. Volume can be adjusted using SRM-700T volume knob after the headphone jack output is set to usual listening level. If the source equipment has line output, set "LEVEL CONTROL" to "INTERNAL" position and adjust sound level using the volume controller of SRM-700T.

6. Connection example

① Standard usage (factory default)

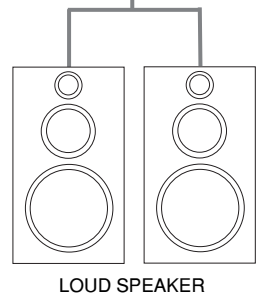


② When using a preamp or attenuator



1. When adjusting the volume with the preamp attenuator, connect to the RCA or XLR terminal of this unit. Please prepare an XLR cable when connecting XLR.
2. Do not connect devices that can not adjust the output signal. It is to prevent it becoming a loud volume when switching carelessly.

Refer to page 5 (5. How to use) for details.



7. Troubleshooting

No Sound

- Is the plug of Power cable inserted into the wall socket ?
- Is the power switch on ?
- Does LED on the front panel light up ?
- Check that nothing is wrong with connecting cable..
- When connected to pre- or integrated amplifier, check that the amplifier selector is set to connected source.

Sound is distorted

- Is supply voltage in stipulated range ?
Turning up the volume too much distorts the sound. Listen with moderate volume.
- See that “LEVEL CONTROL” is not in “EXTERNAL” position. Excessive input level can distort the sound.
- When the preamplifier (integrated amplifier) connected to the “PARALLEL OUT” is powered off, it is possible that the sound is distorted because of the lowered impedance. In this case, simply disconnect the cable.

Unbalanced sound between right and left channel

- Are input signals all right ?
- Level difference between channels can be corrected by adjusting double-axis volume knobs independently.
- When raising volume slowly from zero, it sometimes happens that sound does not start to come out at the same time from left and right channels. This is normal and not a failure.
- Volume cannot be adjusted ? See that “LEVEL CONTROL” is not in “EXTERNAL” position. Set it to “INTERNAL” position.

Hum noise is heard

- Are input terminals connected correctly ? If the ground side of cable is floated or in poor contact, hum noise may come out.
- In case of buzzing hum noise connect GND terminal to the ground terminal or to metal part of other equipment.
- Connecting GND terminal to window aluminum sash is also effective.
- Is there any poor contact ?
- Is supply voltage in stipulated range ?
- Because of the non-magnetic aluminum chassis hum noise can be induced through connected equipment's. If equipment's with large-sized transformer or microwave oven etc. are located near driver unit, keep them away from the unit.

If you have other problems than described above, please contact your dealer or our distributor in your country.

8. Specifications

- Frequency response: DC - 100kHz +0, -3dB (with one SR-009S)
- Rated input level: 100mV (at 100V output)
- Maximum input level: 30Vrms. (at minimum volume)
- Gain: 60dB
- Harmonic distortion: 0.01% or less (1kHz/100Vrms output)
- Input terminal: RCA x 1, XLR x 1
- Input impedance: 50kΩ (RCA input), 50kΩx 2 (XLR input)
- Maximum output voltage: 340Vrms / 1kHz)
- Standard bias voltage: PRO 580V
- Mains voltage: AC120V/AC220V/AC230V/AC240V, 50/60Hz (depending on your country's voltage)
- Power consumption: 54W
- Operating temperature: 0 to 35 degrees C (non condensing)
- Dimension: 240 (W) x103 (H) x393 (D) mm (maximum protruding portion included)
- Weight: 5.7kg
- Others: equipped with through output (RCA) and volume bypass function.
- Vacuum tube: 6SN7GTB x 2

* Specifications and appearance are subject to change without notice for improvement.

* This product is adjusted to mains voltage depending on each country.

Care and cleaning

- Pull out power cable from wall socket and wipe it with dry soft cloth. When very dirty, wipe off dirt with wet cloth and then again with dry cloth.
- Do not use benzin, thinner or alcohol since paint, printing, etc. may come off. Before using chemical dust cloth, check its attached explanation to see it is usable for audio equipment.

Accessories

AC cable	1
RCA cable	1
Warranty card	1
Owner's manual	1

About exchange of vacuum tube:

Please make inquiries about vacuum tube replacement at your dealer.
Inadequate tube may lead to failure of the unit.

STAX®

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Printed in Japan 2021-08 MP © STAX LTD
P/No. 80464-10117