

# PHONO STAGE

USER GUIDE: R-180 / R-280 / R-580



## THE EQUIPMENT SHOULD BE SERVICED BY QUALIFIED SERVICE PERSONNEL

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Clean the phono stage only with a dry, lint-free cloth. For more thorough cleaning, unplug the phono stage from the mains supply and go over it lightly with a damp, lint-free cloth. Do not use any type of chemical solvents or other cleaning products for cleaning.
6. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus that produce heat.
7. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
8. Unplug this apparatus during lightning storms or when unused for long periods of time.
9. Do not defeat the safety purpose of the polarized or grounding-type plug.

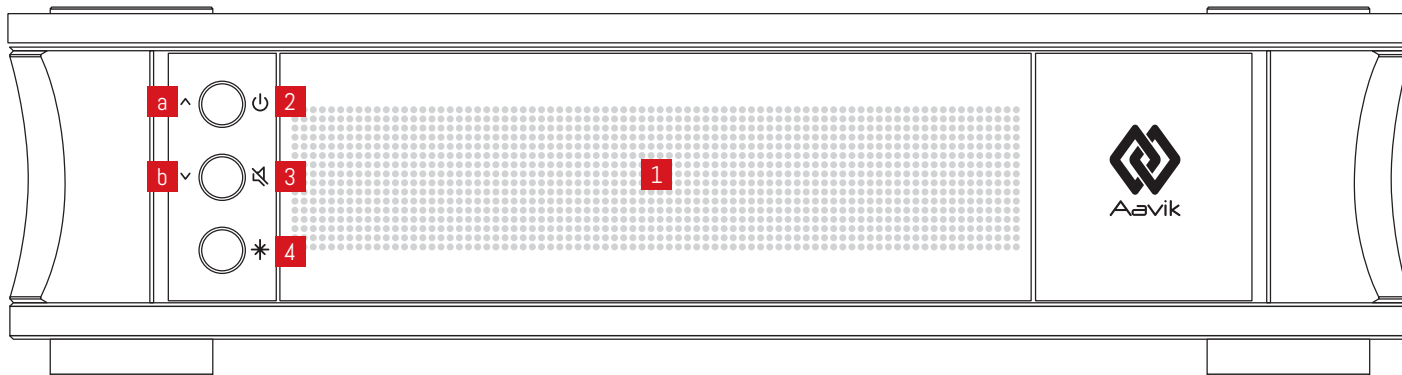
10. Only place apparatus horizontally and on a suitable table or rack.
11. Refer all servicing to qualified service personnel.
12. Servicing is required when the apparatus has been damaged in any way, such as when the power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

when:

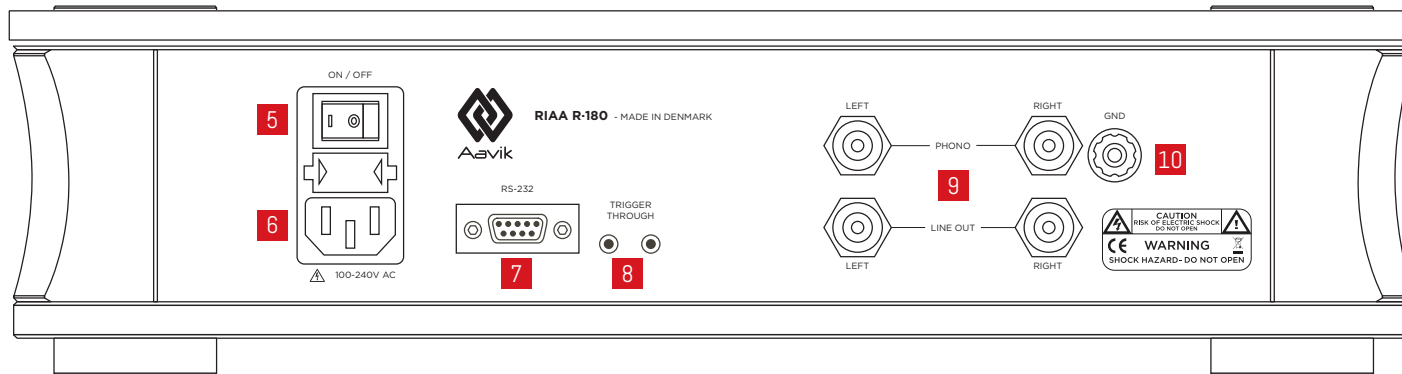
- A. the power-supply cord or the plug has been damaged, or
- B. objects have fallen, or liquid has spilled into the equipment, or
- C. the equipment has been exposed to rain, or
- D. the equipment does not appear to operate normally or exhibits a marked change in performance, or
- E. the equipment has been dropped or the enclosure damaged.

1. **WARNING** – Take care that objects do not fall and liquids are not spilled into the enclosure through any openings. The equipment shall not be exposed to dripping or splashing. Liquid-filled objects such as vases should not be placed on the equipment.
2. The equipment has been designed for use in moderate climates and in domestic situations.
3. Only connect the equipment to a power supply of the type described in the operating instructions or as marked on the equipment. The primary method of isolating the equipment from the mains supply is to remove the mains plug. The equipment must be installed in a manner that makes disconnection possible.
4. If an abnormal smell or smoke is detected from the equipment, turn the power off immediately and unplug the equipment from the wall outlet. Contact your dealer and do not reconnect the equipment.

## BUTTONS ON THE FRONT OF THE PHONO STAGE



## CONNECTORS ON THE BACK OF THE PHONO STAGE



**CAUTION:** To reduce the risk of electric shock, do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.

## FRONT PANEL FUNCTIONS

### 1 DISPLAY

During normal operation the display shows the source (Phono).

When changing settings (see "MENU FUNCTIONS" page 7), the display will show the setting being changed.

### 2 STANDBY

Press the standby button **2** to place the phono stage in standby mode, or to switch on the phono stage from standby mode. When the phono stage is in standby mode, the only light showing on the front will be a dim LED light in the lower left corner. When you switch on the phono stage, the outputs will be muted, and a line will illuminate at the bottom of the display, starting in the lower left corner.

### 3 MUTE / REMOTE CONTROL PAIRING BUTTON

The mute button has multiple functions. When you press this button briefly, it will mute the outputs of the phono stage. The display will show "Mute".

If you are using an Apple remote, you can pair the phono stage with one specific remote. In order to pair your remote control with the phono stage, press and hold the front panel mute button **3** for more than one second. When the phono stage is ready to pair, the display will flash slowly. To pair, press a button on your remote control facing it toward the phono stage.

The display will show "Paired". Press the front panel mute button **3** again briefly to go back to normal operation.

You can remove the pairing, so that the phono stage will stop responding to the remote again, by pressing the front panel mute button for more than five seconds. When the five seconds have passed, the displays will flash fast. Press a button on the remote, to complete the procedure. The display will show "Unpaired". Press the front panel mute button **3** again briefly to go back to normal operation.

### 4 NAVIGATION/MENU BUTTON

The navigation button is used for accessing the menu. See "MENU FUNCTIONS" page 7.

## REAR PANEL FEATURES

### 5 POWER ON/OFF SWITCH

Toggle the switch to switch between fully off and standby mode. When the phono stage is in standby mode, the power consumption is less than 1W. When the phono stage is on, the power consumption is less than 10W.

### 6 POWER INLET (CAUTION!)

The phono stage accepts mains voltages from 100 to 240VAC 50-60Hz. The power inlet accepts power cables with an IEC 60320-C13 female connector.

To ensure the best performance, please consult your Aavik Acoustics dealer for a suitable mains cable.

### 7 RS-232, FIRMWARE UPDATE

The phono stage RS-232 terminal is used mainly for firmware updates. You can check for firmware updates on the Aavik Acoustics homepage.

### 8 TRIGGER OUTPUTS

The phono stage is equipped with two DC trigger connectors. These can be used to power-on the phono stage, when the amplifier is switched on. Connect one of the connectors to the amplifier. The second connector can be used to switch on a further piece of equipment. The phono stage will switch on when 5-15VDC is applied to a trigger input.

### 9 PHONO INPUT

The phono stage is equipped with one RCA phono input. The phono input is fully balanced with floating ground. The ground reference is found on the ground terminal (10). To ensure the best performance, use a phono cable with a separate ground wire. The phono stage uses the RIAA equalization curve, and is suitable for most low to medium output MC cartridges. The cartridge load impedance is adjustable in 18 steps from 50 Ohm to 10 kOhm. Please see "MENU FUNCTIONS" on page 7 for guidance.



**WARNING:** To reduce the risk of fire or electric shock, do not expose the phono stage to rain or moisture.

The lightning flash with an arrowhead symbol within an equilateral triangle, is intended to alert the user to the presence of uninsulated 'dangerous voltage' within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

## APPLE REMOTE

**A** VOLUME UP, Used for changing menu settings.

**B** VOLUME DOWN, Used for changing menu settings.

**C** INPUT +, Used for changing menu settings.

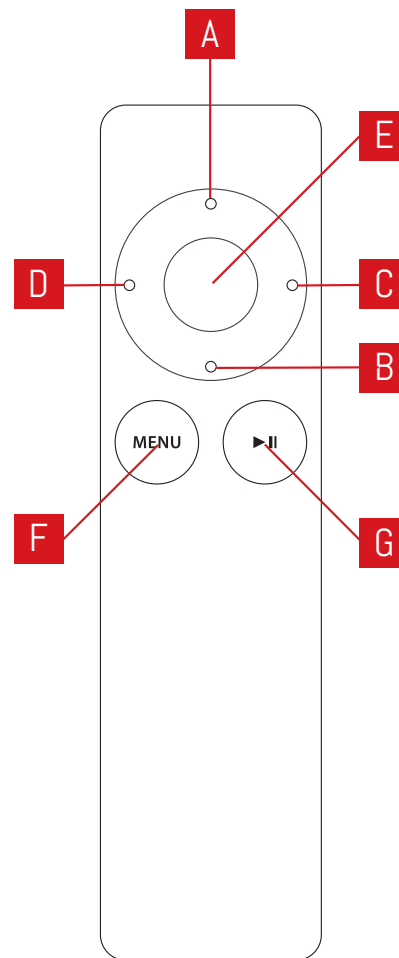
**D** INPUT -, Used for changing menu settings.

**E** STANDBY, Press this button to place the phono stage in standby mode, or to switch the phono stage on from standby mode.

**F** MENU, Use this button to enter the menu, or switch back to normal operation. Use the INPUT + and INPUT - buttons to cycle through the menu, and the VOLUME UP and VOLUME DOWN buttons to change a setting. See "MENU FUNCTIONS" for details.

**G** MUTE

Press the button to mute the outputs of the phono stage. Pressing the button again will reactivate the outputs of the phono stage.



## FACTORY RESET

You can reset all settings back to factory defaults. This will erase all settings. To do this, proceed as follows:

- Switch off the phono stage at the main power switch **9**
- Wait 30 seconds
- Press and hold the three front panel buttons **2 3 4**
- Switch on the main power using **9**, while still holding the front panel buttons
- All LED indicators on the front panel will switch on, and stay on
- After approx. 8 seconds the LED indicators will switch off again.
- Release the front panel buttons, and switch off the phono stage using the main power switch **9**

## MENU FUNCTIONS

Using the front panel or remote control, you can change many settings of the phono stage.

Using the remote, you press the "Menu" button **F** to enter or exit the menu.

Using the front panel, you press and hold the navigation button **4** for 3 seconds.

When you enter the menu, the loading resistor setting will be shown on the display. The top line of the display shows the current option ("Preamp gain" when you enter the menu), and the bottom line shows the current setting.

Using the remote, you can cycle through the options using the INPUT + **C** and INPUT - **D** buttons.

Using the front panel, press the navigation button **4** to cycle through the options.

Use the VOLUME UP **A** and VOLUME DOWN **B** buttons of the remote, the up and down front panel buttons (**a** / **b**) to change the settings.

Once in the menu, using the remote, you can cycle through all options in the order shown in the diagram below.

Using the front panel, the phono stage will return to normal operation once you have cycled through all the options.

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### SETTINGS FOR INDIVIDUAL INPUTS

### DISPLAY SHOWS

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#### Rin (phono input)

Using this function, you can set the loading resistor on the phono input. The range is 50 ohms to 10 kOhms."



Input load  
100 Ohm

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### SETTINGS COMMON TO ALL INPUTS

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#### Display brightness

You can change the display brightness in four steps: 10, 40, 70 and 100%



Display brightness  
100%

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#### Display dim

Using this setting, you can set the display to switch off automatically after 1-5 seconds. The standard setting is off. When the display is off, a single dim LED will be lit in the lower right corner.

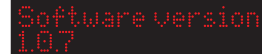


Display dim  
Off

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#### Software version

This menu option shows the current firmware version of the phono stage.



Software version  
1.0.7

## SPECIFICATIONS

	Aavik R-180	Aavik R-280	Aavik R-580
Phono:	Floating RCA (1 set) Max input: 5mVrms Gain 65dB @ 1 kHz Load-impedance adjustable from 50 ohm to 10k ohm Frequency response +/-0.5 dB (20-20 kHz)	Floating RCA (1 set) Max input: 5mVrms Gain 65dB @ 1 kHz Load-impedance adjustable from 50 ohm to 10k ohm Frequency response +/-0.5 dB (20-20 kHz)	Floating RCA (1 set) Max input: 5mVrms Gain 65dB @ 1 kHz Load-impedance adjustable from 50 ohm to 10k ohm Frequency response +/-0.5 dB (20-20 kHz)
Output:	1 pair of RCA outputs Distortion: <0,005% (THD at 1kHz, 0.5mV input) Output impedance: 120 ohms	1 pair of RCA outputs Distortion: <0,005% (THD at 1kHz, 0.5mV input) Output impedance: 120 ohms	1 pair of RCA outputs Distortion: <0,005% (THD at 1kHz, 0.5mV input) Output impedance: 120 ohms
Aavik noise reduction:	Active Tesla coils: 36 Active Square Tesla Coils: 104 Dither circuitry: 5	Active Tesla coils: 72 Active Square Tesla Coils: 176 Dither circuitry: 8	Active Tesla coils: 108 Active Square Tesla Coils: 248 Dither circuitry: 11
Power consumption:	Standby: <0.5W On: <10W	Standby: <0.5W On: <10W	Standby: <0.5W On: <10W
Dimensions:	102 x 384 x 380 mm	102 x 384 x 380 mm	102 x 384 x 380 mm
Weight:	5,4 kg	5,6 kg	7,3 kg





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