

TM

SCHERTLER®
ACOUSTIC FIDELITY

ARTHUS
ART48 - AUXMAST

USER MANUAL
Assembling instruction on ART48-L/Rmast manual

WARNINGS

PRECAUTIONS

WARNINGS

Read carefully this manual and follow these precautions before operating the device

Keep this manual for possible future needs

Pay attention not to pour liquids onto the device and do not operate in conditions of excessive humidity

Do not install the device close to sources of excessive heat, do not expose it to direct solar radiation and do not position it without protection in a dusty environment

Be sure that the main voltage does not exceed the value indicated on the back panel

Do not use the device if the main cable or the plug aren't in a perfect condition (if necessary, replace it)

If the main cable has to be replaced, the operation must be carried out by qualified personnel. Replace the cable exclusively with one that is an exact substitute

In order to avoid interference, do not install the device close to power transformers, TV sets, RF transmitters, electric motors or any source of electric energy

Do not point microphones against speakers: this could generate annoying whistles (Larsen effect) that cause damage

In order to avoid unpleasant and costly inconveniences, use only original connecting cables

To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC socket

When cleaning, do not use solvents (e.g. acetone or alcohol). These could damage the external finishing and the serigraphy

Do not attempt to service this product. In case of malfunction of any part of the system call the nearest technical assistance centre or a specialized technical centre

For good ventilation, the heat sink should never be covered or obstructed by blankets, sofas or similar furniture. Be sure also to leave sufficient clearance between the heat sink and any other surface

No source of flames, e.g. candles, should be placed on or near the device

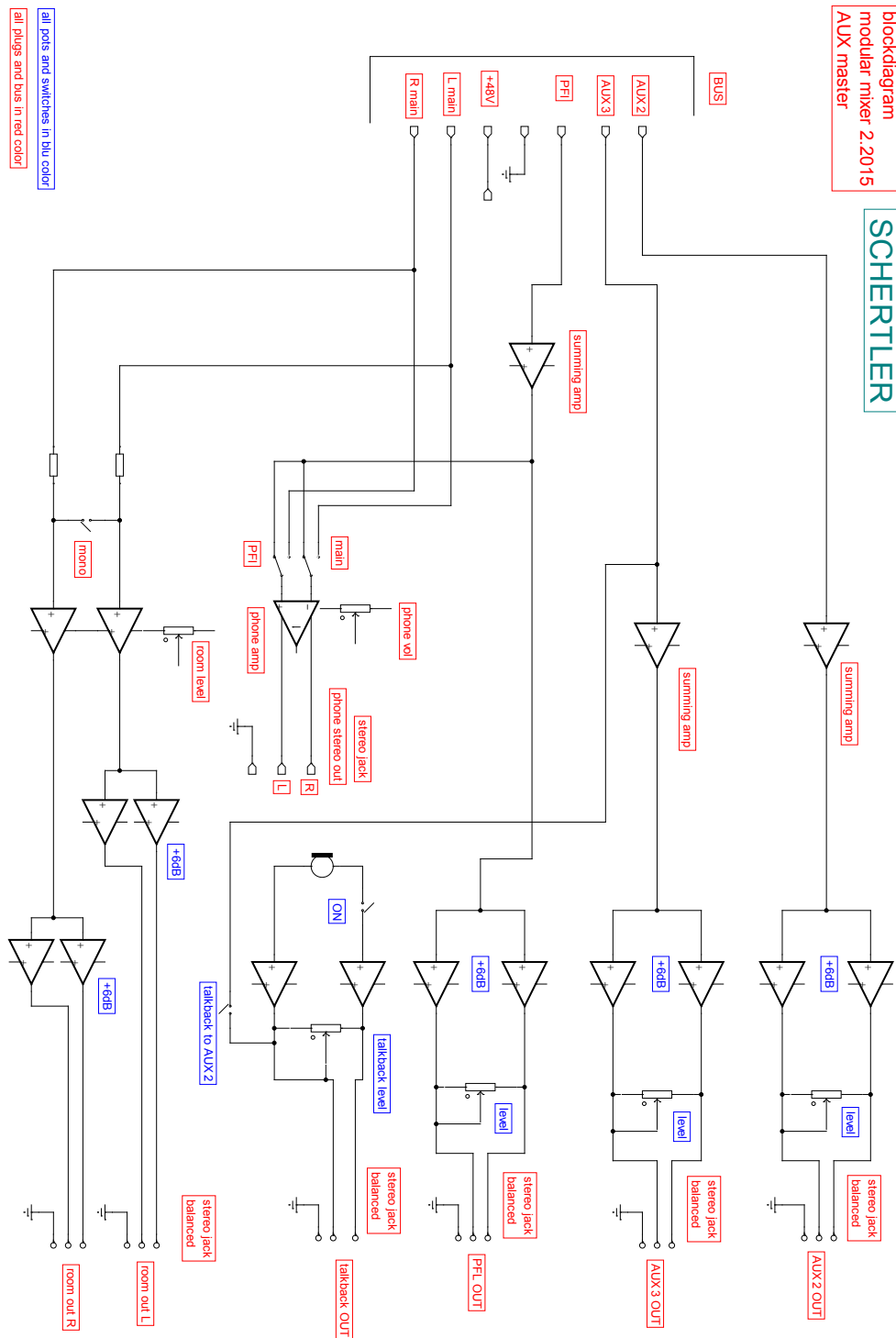
The device should not be exposed to water, even in small amounts. No object containing liquids should be placed on or near the device

The device should only be connected to a mains socket outlet equipped with protection ground system

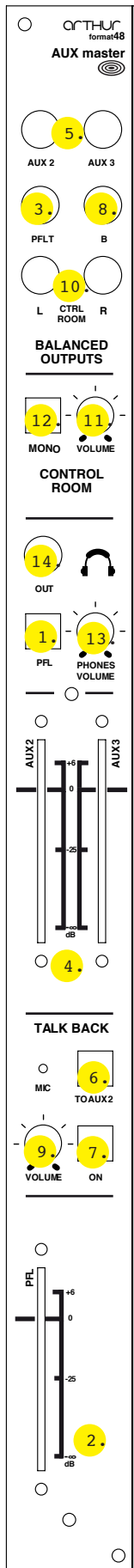
When the device is installed, be sure the mains socket and the plug of the mains cable are easily accessible

ART48 - AUXMAST

The Arthur AUX master unit is a very fine, high-end, CLASS-A output amp. It has been designed to function as an additional output unit for the L/R master unit, completing your mixer and providing all routings as well as additional output functions. In this respect, the mixer's entire master section consists of the L/R master unit, the AUX master unit and a master EQ unit, in case a correction of the room acoustic is required.



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Let's take a look at the additional functions the AUX master unit adds to your Arthur mixer.

It makes sense to install the AUX master unit to the right of the L/R master unit. This way the AUX faders will go from left to right in numeric order (AUX 1 on the L / R master, AUX 2 and AUX 3 on the AUX master).

The AUX master unit includes six output amps.

Please note that all six phone plugs are designed to send balanced signals, realized via space-saving stereo phone plugs. The tip connects as usual to the hot signal (+), the ring to the cold signal (-) and the sleeve to the ground.

An additional advantage of phone plugs is that they also allow you to connect an unbalanced music signal, via a mono jack, to any of the outputs.

The unit's PFL (pre fade listen) function is similar to that of other mixers. However, as well as being a traditional PFL, this one also serves as a fourth AUX send, but without the possibility to independently set the level on all channels.

All signals from any input units that have their PFL buttons depressed (red light), will be controlled via the PFL fader (2.) at the bottom of the AUX master unit and sent to the output via the PFL OUT (3.) at the top of the unit. (The PFL function of the headphones will not be affected by this fader.)

This particular function can be useful when an additional monitor is needed, for example for a singer, where only one signal might be required (in this case the signal from the "voice channel").

The AUX 2 and AUX 3 faders (4.) (located in the middle of the unit) control the amount of signal on the AUX 2 OUT and AUX 3 OUT (5.) respectively.

The AUX master unit also includes a talkback section with an integrated condenser microphone (you will find the mic port to the left of the TO AUX 2 button (6.)). This is designed to ease the sound engineer's communication with the stage or recording room. To activate the talkback section, simply depress the TB ON button (7.) (yellow light). The preamplified signal from the microphone can be connected from the TB OUT to any (active) loudspeaker system (in the recording room), or sent directly to the AUX 2 OUT output by depressing the TO AUX 2 button, thereby adding it to the AUX 2 signal heard in the stage monitors for example. (Therefore, use AUX 2 for stage monitors.)

Set the correct level of talkback (8.) using the dedicated VOLUME

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knob (9.). Don't forget to deactivate the TB ON button when you have finished speaking over the talkback!!

Using the headphones section is very simple: Connect your headphones to the HP OUT (14.) and adjust the VOLUME knob (13.) to a comfortable sound level. You will hear the music signal from the L/R master independently from the signal level that is determined by the position of the master faders.

When you depress the PFL to HP (1.) button (red light), the PFL signal will appear on the headphones, provided that the PFL button is depressed on at least one of the input channels. This function can be helpful when listening to one input channel exclusively, or when listening to it before fading it to the main outputs, by having deactivated the channel (ON / OFF button) or having pushed down the channel's fader.

The control room section is an additional stereo L/R output (10.) that could drive devices such as room monitors in a recording studio. Other devices could also receive a stereo signal from this output, e.g. a subsidiary PA, side fills, a second recording device etc. Plug the active studio monitors (or the amp to drive passive monitors) into the LEFT and RIGHT outputs. Set the audio level by turning the VOLUME knob (11.). The MONO button (12.) will help you listen to a stereo program that has been reproduced in mono, in order to evaluate its "mono compatibility".

TECHNICAL SPECS

Control Room L/R balanced ¼" jack outputs

Output impedance	200 ohm
Maximum output level	+25dBu (@1kHz ; THD <0.5%)
Frequency response (-3dB)	20Hz – 60 kHz
Distortion (THD+N; @1kHz) -30dBu input level 0dBu output level	0.12%

AUX 2, AUX 3 balanced ¼" jack outputs

Output impedance	180 ohm
Maximum output level	+26dBu (@1kHz ; THD <0.5%)
Maximum Gain	+13 dB
Frequency response (-3dB)	16Hz – 125 kHz

PFL balanced ¼" jack output

Output impedance	190 ohm
Maximum output level	+25dBu (@1kHz ; THD <0.5%)
Maximum Gain:	+6 dB
Frequency response (-3dB)	16Hz – 100 kHz
Distortion (THD+N; @1kHz) -30dBu input level 0dBu output level	0.05%

Phones ¼" jack output

Output impedance	20 kohm
Maximum output level	+10 dBu (@1kHz unity Gain; THD <0.5%)
Frequency response (-3dB)	16Hz - 100kHz
Distortion (THD+N; @1kHz)	0.12% (@ unity Gain)
Power consumption	67 mA
Size & Weight	36x58x475mm ; 0,5 kg

IMPORTANT SAFETY INSTRUCTIONS



THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL, WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT ENCLOSURE THAT MAY BE OF A SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.

THE EXCLAMATION POINT WITHIN AN EQUILATERAL TRIANGLE, IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE PRODUCT.

WARNING

**TO REDUCE THE RISK OF FIRE OR ELECTRICAL SHOCK
DO NOT EXPOSE THE APPLIANCE TO RAIN OR HUMIDITY**

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as 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.



ALL SCHERTLER® PRODUCTS ARE COVERED BY A LIMITED THREE-YEAR WARRANTY (FROM THE DATE OF PURCHASE) AGAINST MANUFACTURES DEFECTS. DETAILS CAN BE OBTAINED FROM YOUR LOCAL DEALER/REPRESENTATIVE. SCHERTLER SA STRONGLY BELIEVES IN "COMMON SENSE" AND THUS, MISUSE OF OUR PRODUCTS ARE NOT COVERED UNDER RIGHTS OBTAINED THROUGH OUR WARRANTY POLICY OR THAT OF INTERNATIONALLY RECOGNIZED TERMS AND CONDITIONS.

SCHERTLER SA IS CONSTANTLY AIMING TO IMPROVE ITS RANGE OF PRODUCTS THEREFORE, SCHERTLER SA RESERVES THE RIGHT TO AMEND PRODUCT SPECIFICATIONS WITHOUT NOTICE.

THE SCHERTLER® NAME/LOGO ARE REGISTERED TRADE-NAMES/ TRADEMARKS OF SCHERTLER SA, SWITZERLAND.
All SCHERTLER® PRODUCTS ARE OF PROPRIETARY TECHNOLOGY AND COVERED BY ONE OF MORE WORLDWIDE PATENTS.

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