

TM

SCHERTLER®
ACOUSTIC FIDELITY

ARTHUS

ART48 - MULTIPLE IN

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

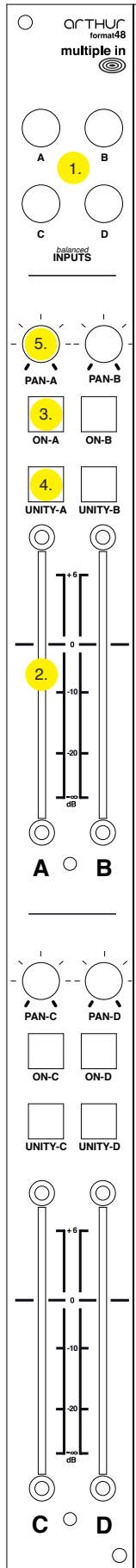
ART48 - MULTIPLE IN

The Multiple In is a CLASS-A input unit that can receive 4 line signals (or two stereo lines), as opposed to just the 2 lines that can be handled by the Stereo In unit. It does however include fewer features (no gain, filters or AUX routing), having been principally designed to enable simple routing of line signals to the L/R Master - which, in many cases will prove sufficient.

The Multiple In is mainly intended for use with audio devices that generate a line signal (0 dBV) from their output(s). This makes it particularly useful for sub group routing: Its inputs can accommodate effect units, CD players, tape or digital recorders, preamps of any kind and electronic instruments such as keyboards and Midi devices.

A number of Multiple In units combined with one L/R Master unit will create a summing amp of outstanding quality, which is both modular and money saving. For example, four Multiple In units will configure into a 16-channel summing amp.

ART48 - MULTIPLE IN



This unit has four input connectors(1.) for the respective line channels. These are fully balanced and use space-saving stereo phone plugs. The tip connects as usual to the hot signal, the ring to the cold and the sleeve to the ground. Another advantage of these phone plugs is that you can connect an unbalanced music signal, for example from a keyboard, via a simple guitar jack.

All four inputs will receive nominal line signals (0dB), therefore no gain adjustment is previewed and the input amp's sensitivity is always 0dB unity gain.

Volume, Mute, L/R Routing and Unity Gain

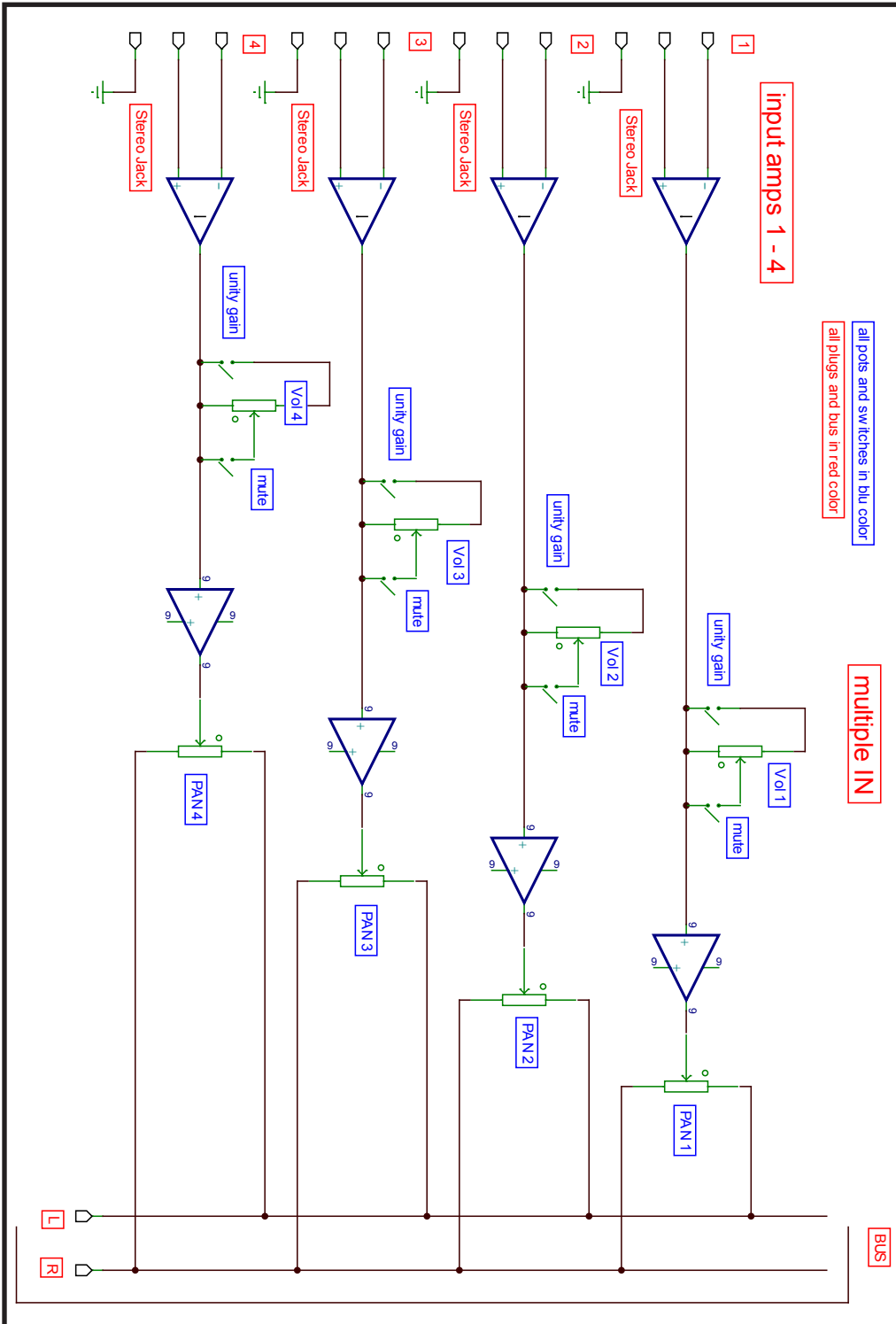
Every input channel has its own VOLUME(2.) control, MUTE(3.), UNITY GAIN(4.) button and PAN pot(5.) for L/R routing. Four independent mono signals can therefore be individually controlled, sent left or right, or mixed.

You might also want to connect one or two stereo sources to the Multiple unit, such as recorders, effects or keyboards. Connect the left signal to Channel 1, setting the PAN hard left and the right signal to Channel 2 setting the PAN hard right. This way, the Multiple can route the stereo signal to the L/R master. The same can be done with a second set of stereo signals, connected to Channels 3 and 4 and panned hard left and right as above.

Depressing the UNITY GAIN button lets you set an amplification level of 0dB independently from the position of the volume fader. This can be very useful when you have several similar sources connected to the unit, which you then want to send to the L/R bus at the same nominal level, i.e. via one or two sub group units.

Depressing the MUTE button lets you mute the respective signal without altering the position of the fader.

SIGNAL FLOW



TECHNICAL SPECS

Input impedance:	41.4 Kohm
Maximum input level:	20dBu
Gain range:	-61dBu to +6dBu
Frequency response: (-3dB)	< 10Hz - 90kHz
Equivalent Input Noise (EIN):	111.7dB (Gain @11.7dBu)
Distortion (THD+N, @1kHz):	0.15%
-30dBu input level	0.12% (2nd harmonic)
0dBu output level	0.06% (3rd harmonic)
	0.04% (4th harmonic)
	0.01% (5th harmonic)
Power consumption:	80mA
Size & Weight:	36x58x475mm; 0.5Kg

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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