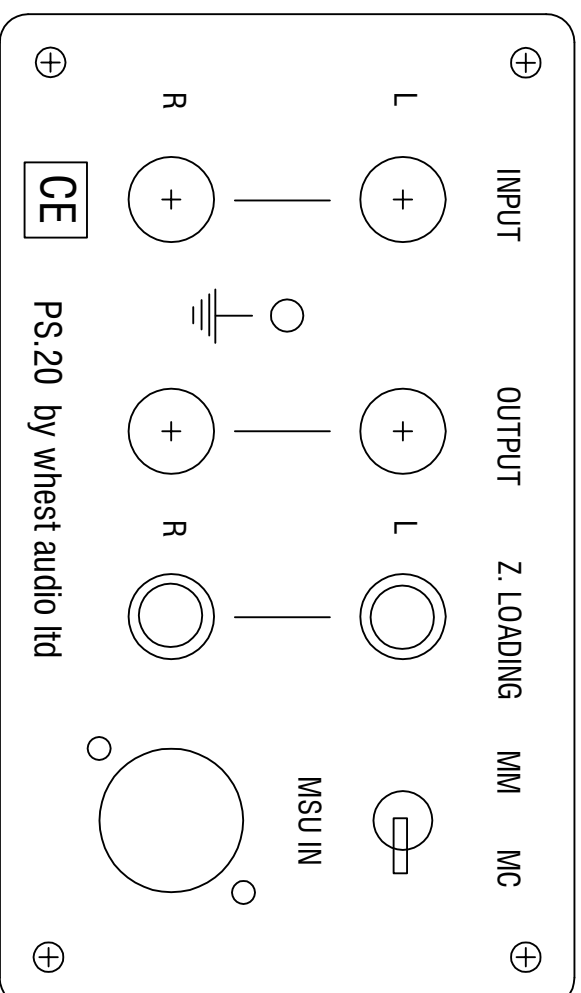


whest



PS.20 + MSU.20 Operating manual

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Description

Thank you for purchasing the Whest Audio Ltd PhonoStage.20.

As you know, this unit is designed to retrieve the maximum amount of information from your vinyl LPs. It does this by using proprietary low noise audio circuitry as well as a newly developed filter which together with the RIAA filter enables the PhonoStage.20 to playback up to 60Khz.

BRIEF HISTORY

The RIAA curve was designed many years ago to enable the use of vinyl as a playback medium. Back then the humble stylus and audio electronics could really only playback a very limited bandwidth. A system bandwidth of 12Khz was quite rare. Nowadays most systems have a bandwidth of 100Khz! The modern day cartridge can playback 60Khz. So why continue with a filter curve designed for systems designed in the 1950s?

FORWARD THINKING

Because of our close links with the music recording industry we were able to measure several Neumann cutter heads prior to cutting a master onto acetate. What we found was that the cutter head would cut high frequency all the way to 50Khz!

With these results and the research acquired from the DAP programme we then designed a hf filter that would complement the RIAA filter we had designed for the PhonoStage.20. Because of the extended hf response of the PhonoStage.20 large amounts of information are now able to be heard when it was once thought there was nothing there.

The extended hf enables you to hear further into the soundstage by bringing to life the lowest frequencies of a kick drum and positioning all instruments to form a three dimensional soundstage.

It is because of the extended hf response that the PhonoStage.20 excels where others just plainly fail.

Safety

Please note that there are no user serviceable parts inside.

If for any reason this unit needs to be serviced please return it to an authorised Whest Audio Ltd service agent.

There is a risk of electrical shock if this unit is opened!

Please do not attempt to open this unit as it **WILL** invalidate your guarantee.

Cleaning

When cleaning the unit please do not use any liquids as it may enter the unit causing it to malfunction. We recommend a lint free cloth with a small amount of polish applied to the cloth.

Connections

All PhonoStage.20 units come supplied with an Audiophile grade interconnect.

Although all listening tests were conducted with this interconnect please feel free to use your preferred interconnect or ask your dealer for advice.

1. When connecting the PhonoStage.20 please make sure that your system's source selector is switched to an input other than the input to which the PhonoStage.20 unit is to be connected.
2. **Please make sure that the MsU.20 unit on/off switch is in the off position.** This is done by pressing the '0' on the mains switch on the rear of the unit.
3. **First disconnect** the turntable from the amplifier / preamplifier.
4. Connect the turntable leads to the PhonoStage.20 observing the colour codes for channel ID.

5. Connect the 'grounding' lead from the turntable arm lead to the grounding post on the PhonoStage.20.
6. Connect the output of the PhonoStage.20 to the amplifier / preamplifier aux input.
7. Once you are happy that all inputs and outputs have been connected properly, attach the MsU multi-pin connector to the MsU.20 first, then to the PhonoStage.20.
8. Then plug the supplied IEC mains cable into an appropriate power wall socket.
9. If all is OK just press the 'I' on the rear mains switch. A small red light should glow on the MsU.20 unit's front panel - this indicates that all is OK. There is no light on the PhonoStage.20 unit.
10. Select the correct source input on the amplifier / preamplifier.

11. LOADING & GAIN

- a. Use the Blue loading plugs if you are using a Moving Coil cartridge. These plugs apply a 100ohm loading value to the MC input.
- b. Use the Black loading plugs if you are using a Moving Magnet cartridge. These plugs apply a 47,000 ohm loading value to the MM input.
- c. If your cartridge requires a different loading value please ask your Whest Audio dealer or contact Whest Audio Ltd on post@whestaudio.co.uk or tel: +44 (0) 20 8 965 4535
- d. The majority of MC cartridges will require the 100ohm plugs. Occasionally we have found that a different value is required, but this is very occasional.

The Gain of the PS.20 is fixed but can be adjusted internally by your dealer or by Whest Audio Ltd before purchasing a unit.

12. Play a LP and enjoy!

It may take several hours before the PhonoStage.20 settles down to work more efficiently, but generally 4-6 hours is sufficient time for the sensitive components to find their 'steady state' working temperature.

Please familiarise yourself with the rear panel (**fig.1**) layout as it will make unplugging and cleaning easier.

Specification

Model No.:	PhonoStage.20 + MsU.20
RIAA curve accuracy:	18Hz - 22Khz +/- 0.2dB
Frequency response:	5Hz - 60Khz +/- 1.5dB
Working band:	15Hz - 53Khz
MM Gain:	40dB
MC Gain	65dB to suite all 0.5-0.7mV cartridges
THD+N:	0.007%
Connections:	Unbalanced
Connectors:	Gold Audiophile
Unpacked weight:	3Kgs
Packed weight:	4Kgs
Dimensions:	2 x 165mm x 107mm x 62mm
Operating voltage:	230VAC 50Hz or 115VAC 60Hz (see dealer)

Supplied in package:

- 1 x PhonoStage.20 head unit
- 1 x MsU.20 power supply
- 1 x Audiophile interconnect
- 1 x 8-way MsU multi-pin cable
- 1 x IEC mains cable
- 1 x set MM loading plugs (47K/220p) - Black
- 1 x set MC loading plugs (100R/1.5n) - Blue

In use

The PhonoStage.20 has been designed to be simple to integrate into any audio system.

See the PhonoStage.20 rear panel drawing on **fig.1** & MsU.20 rear **fig.2** for connections.

For basic connectivity follow **fig.3**.

For various grounding methods see **fig.4**.

Cartridge loading

The majority of MC cartridges fall into the 100R/1.5n loading category.

If your MC cartridge requires a different loading plug please consult your Whest Audio Ltd dealer or contact Whest Audio Ltd on post@whestaudio.co.uk

Tel: +44 (0) 20 8965 4535 Fax: +44 (0) 20 7689 1089

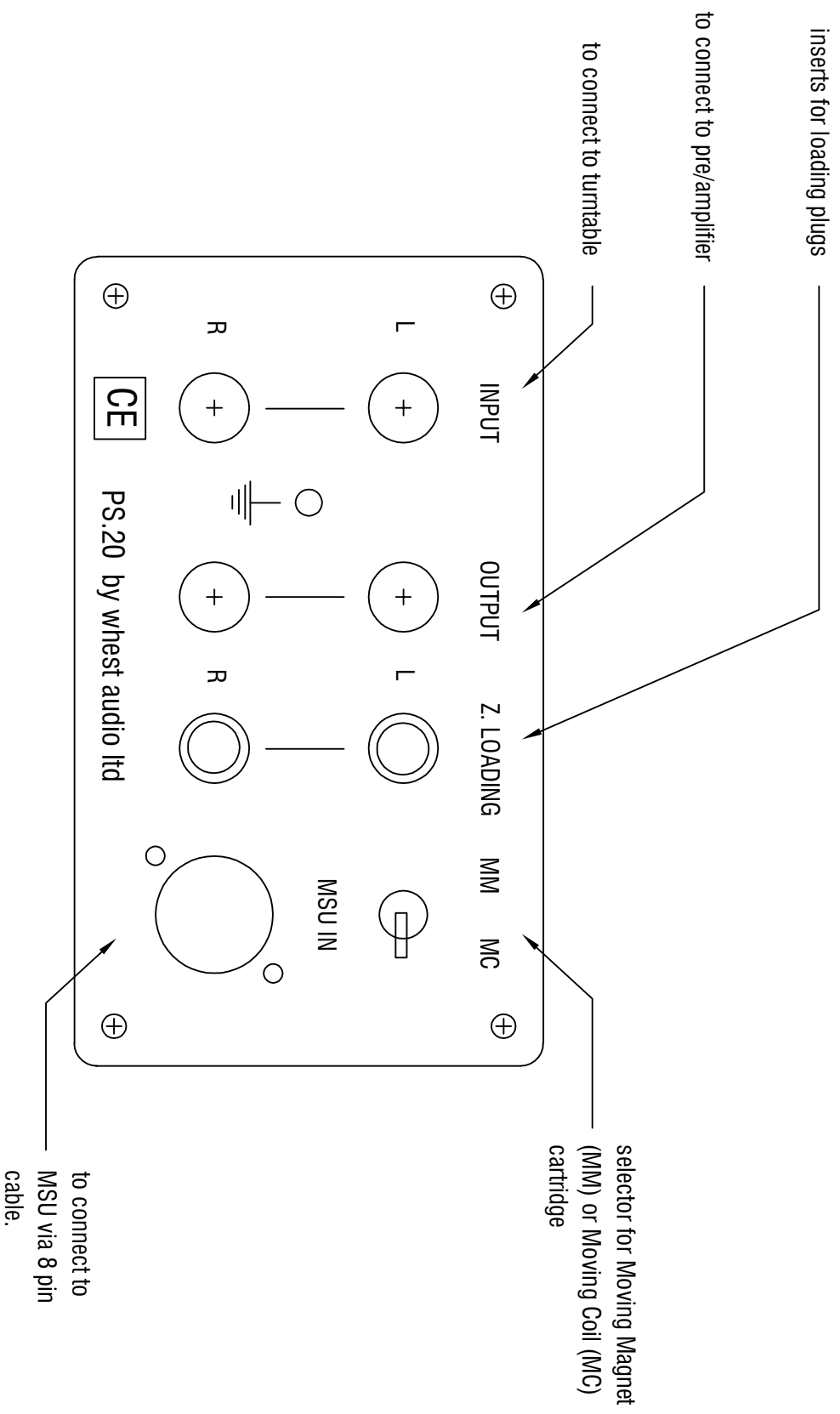


Fig. 1 PhonoStage.20 rear

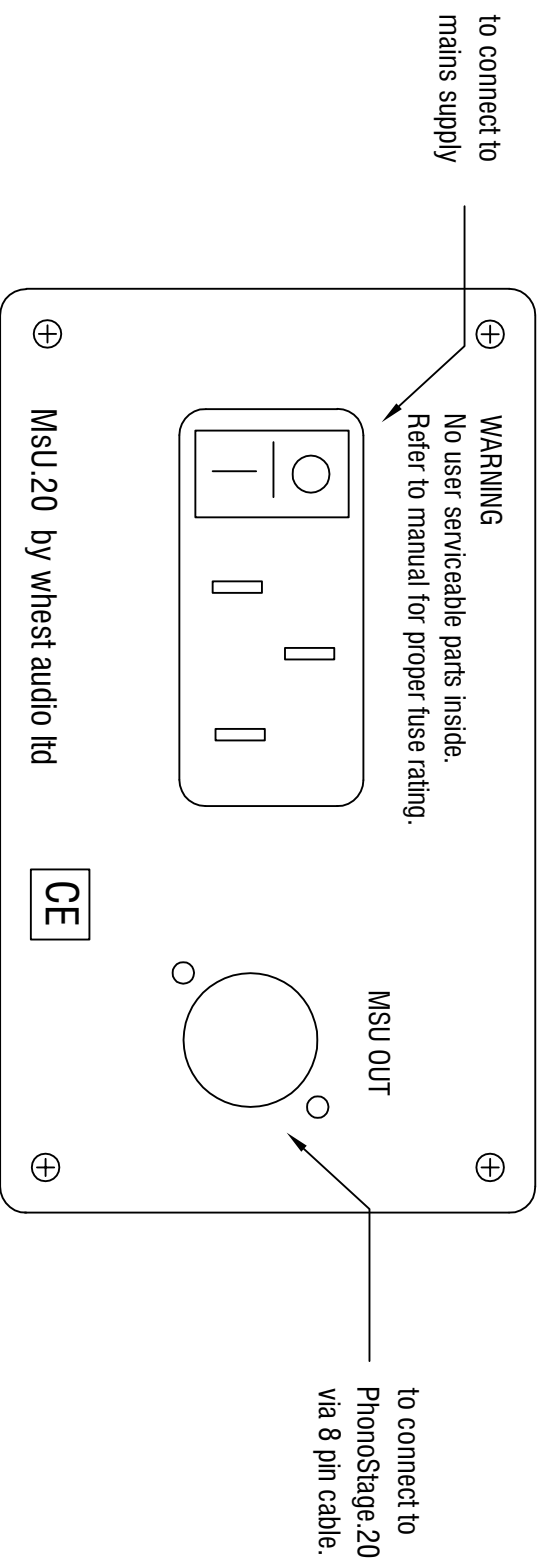


Fig.2 MSU.20 rear

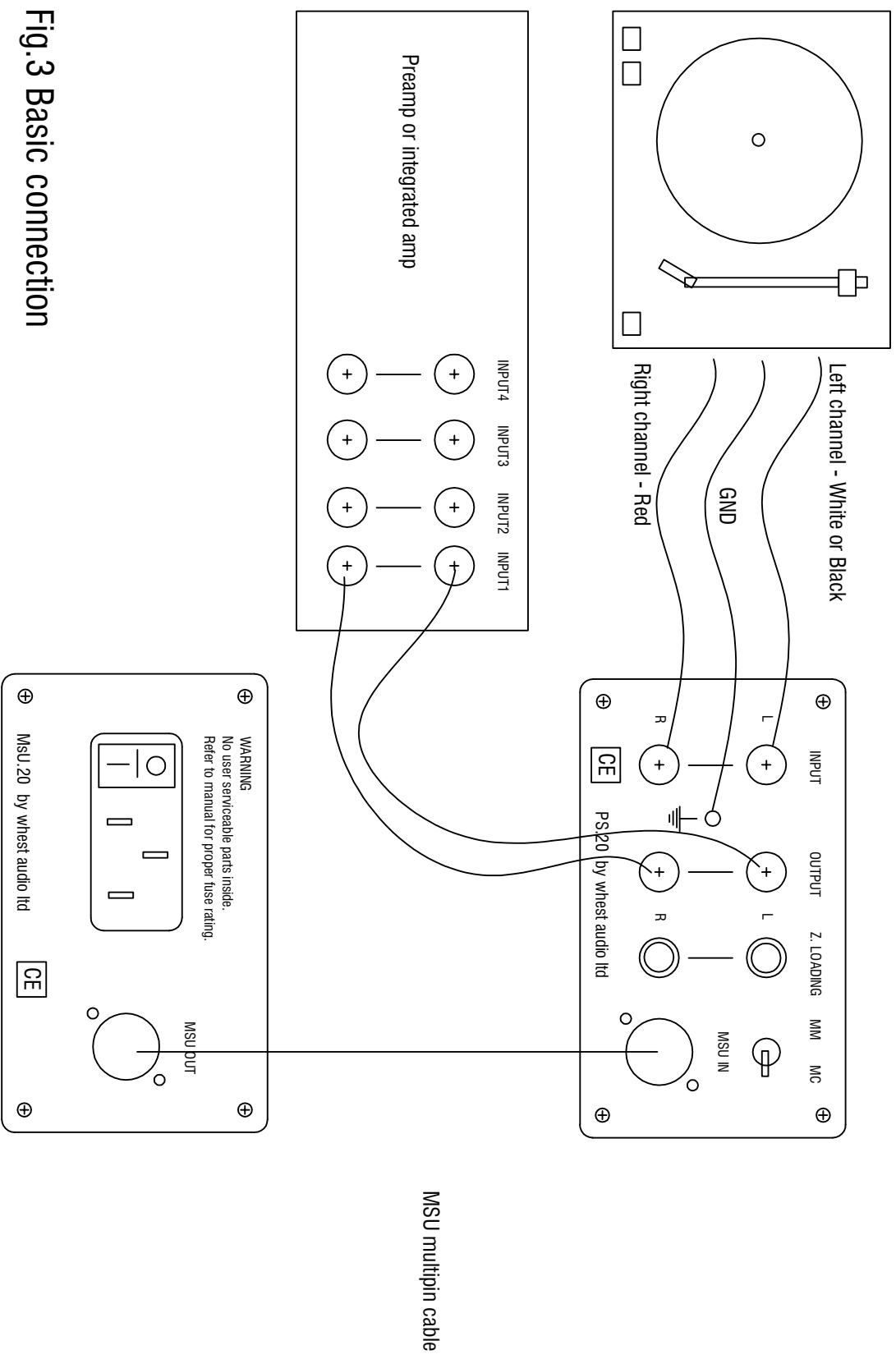


Fig.3 Basic connection

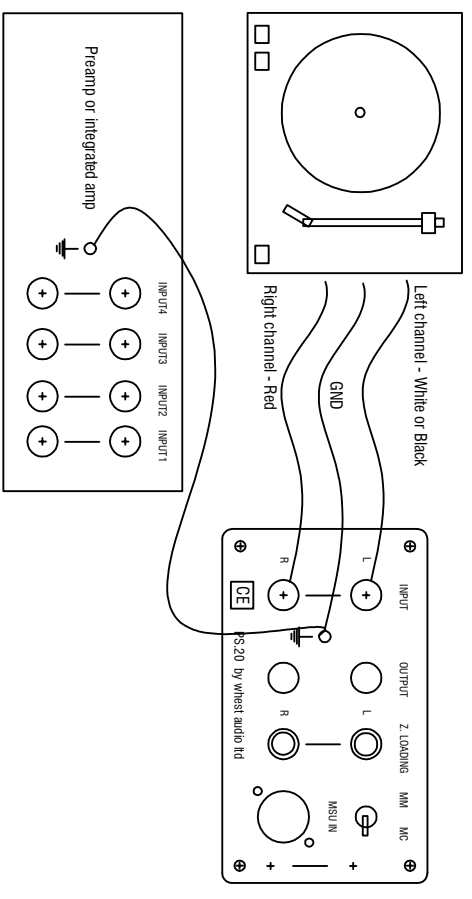
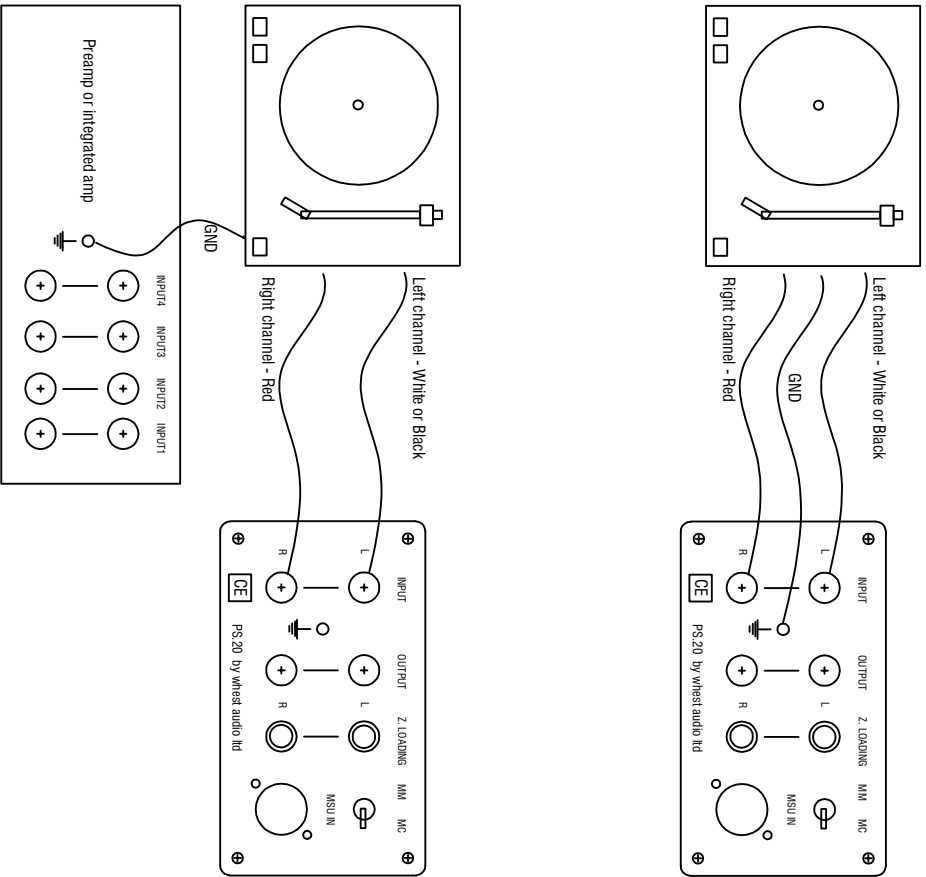


Fig.4 Grounding arrangements