



User Manual

mm/mc phono

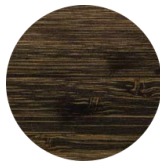
Designed, Fabricated & Assembled in Canada



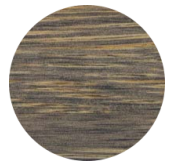
Natural/Naturel
#16715



Black/Noir
#33661



Distressed/Affligé
#33662



Graphite Grey/Gris Graphite
#33663

* Read the user manual
before operating.

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safety information

Before you start...



Warning of a hazard for the user, the unit or possible misuse. Important notice.

Thank you for buying a Tri-Art Audio product. Please read through this manual to understand and operate this product correctly. Please keep this manual in a safe place so that you may refer to it whenever necessary. Please ensure the product you are using is rated for your country's electrical system, or it will not be covered under our warranty.


Warning:

To prevent fire or shock hazard, do not expose this product to rain or moisture.

Important Notice:

The serial number for this equipment is located on the bottom of this component. Please write this serial number on the enclosed warranty card and follow the instructions to register your product for our three (3) year limited warranty.

This equipment is designed for consumer use, such as home audio systems. It is not designed to operate in a business environment or a mobile application. Mobile, pro or commercial businesses such as restaurants will not be covered under warranty.

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.

Safety Instructions

Read Instructions:

All the safety and operating instructions should be read before operating this equipment.

Retain Instructions:

The safety and operating instructions should be retained for future reference.

Heed All Warnings:

All warnings, set up procedures, and operating instructions should be strictly adhered to. Follow all instructions carefully.

Water and Moisture:

Under no circumstances should this audio component be used near water. It is not to be used in a bathroom, water closet, shower, kitchen, wet basement, pool/spa/sauna area, or outside.



safety information

Safety Instructions Continued

Ventilation:

Please ensure that the location of this equipment is such that in no way does it prevent adequate ventilation. Do not enclose this in fabric or enclose in a cabinet where there is no adequate ventilation. In no instance should the product be located where the flow of air is impeded or cannot allow proper ventilation.

Heat:

This product should be located well away from all the heat sources such as but not limited to heaters, forced air heat, radiators, stoves, and fireplaces.

Power Sources:

The Tri-Art component should be connected to a power supply as listed on the actual component and manual.

Cleaning:

Your Tri-Art product was soaked and finished in hemp oil. Do not use lacquers or aerosol wax products with this product. Do not pour water on the surface at any time.

Heavy Objects:

Do not place heavy objects on this component.



initial check

Before opening the boxes, Please adhere to the following suggestions for a trouble free start up.

1. Box Orientation:

Before opening the package, ensure that the arrows on the box are pointing upward to maintain proper orientation.

2. Inspect for Damage:

Carefully examine the packaging for any visible signs of damage. If any damage is observed, promptly report it to the transport company.

3. Unpacking:

Open the package carefully to avoid damaging the contents.

4. Retain Packaging and Documentation:

Always retain the original packaging materials and documentation. This is essential for future resale or if the equipment needs to be transported to a new location.

included in the box

- P Series MM/MC Phono Pre Amplifier
- 12 V Linear Power Supply AC/DC Adapter
- IEC Standard power Cable with Polarized AC male Plug
- One (1) Barrel connector
- User Guide



front:

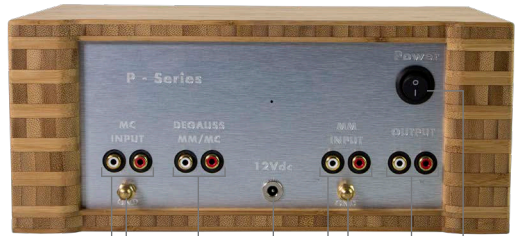
- 1 Left Channel Gain Switch
- 2 MM/MC Loading Left
- 3 MM/MC Selector Switch
- 4 MM/MC Loading Right
- 5 Right Channel Gain Switch



back:

MC = Moving Coil
MM = Moving Magnet

- 1 MC Inputs (L R)
- 2 Grounding Lug
- 3 Degauss MM/MC Input
- 4 12V DC Input
- 5 MM Inputs (L R)
- 6 Power Switch
- 7 Outputs to Pre Amp
- 8 Grounding Lug



phono specs

•Key Features

- **Integrated Degauss Circuit:** Helps neutralize residual magnetism in MC cartridges, improving tonal balance and transient response.
- **Extreme Cartridge Compatibility:** Over 200 adjustable loading and impedance settings ensure ideal matching for both MM and MC cartridges.
- **Premium Connectivity:** Fully isolated RCA inputs and outputs, plus dual grounding lugs for optimal noise control.

Handcrafted Bamboo Chassis: Three-ply solid bamboo enclosure provides natural resonance control and sustainable beauty.

- **Tri-Art Iso Feet:** Isolation support feet reduce micro-vibration, enhancing image stability and clarity.

Specifications

Power Supply

- Outboard 12V DC, 5A, 60W Power Supply
- Internal ultra-high current dual-rail (single reference) power system
- Wall voltage: 110–240V AC, 50/60Hz
- Mean power consumption: approx. 24W (mode dependent)
- 2 x grounding lugs; rear-panel power switch

Phono Stage Performance

- **Gain:** MM / MC – 63 dB
- **Input Impedance:**
 - MM: 47 k Ω
 - MC: selectable 4.7 / 10 / 20 / 47 / 100 / 499 Ω
- **RIAA Curve:** Passive equalization network, $\pm 1\%$ conformity
- **THD:** < 0.05%
- **Resistors:** 0.1% metal film throughout

Construction

- **Cabinet:** 3-ply solid bamboo
- **Feet:** Tri-Art Iso Feet
- **Burn-in:** 99 hours factory test cycle
- **Dimensions:** 11.25" W \times 7" D \times 5" H (285.85 \times 177.8 \times 127 mm)
- **Weight:** 3 lbs / 1.36 kg

Degauss Feature:

WARNING: While the benefits of the degaussing process are obvious (like removing a veil or lens) some cartridge manufacturers advise against it for their cartridges. We recommend you follow the cartridge manufacturer's instructions or if you cannot, contact your dealer to ensure your cartridge is compatible with such a procedure.

KEY INDICATORS that your cartridge might benefit from degaussing are a slightly dull muffled high end or an overall murky sound presentation.

Tri-Art will not accept any responsibility for your ability to properly use or improperly use this feature. Nor shall we be liable for any damages to your cartridge or your system.

The function of the degauss circuit is to remove small-scale remnant magnetism. The effective use of the degauss circuit should result in an audible improvement in transparency, particularly in high-frequency performance. Please note the Degauss is not a remedy for turntable issues such as Wow and Flutter or Rumble.

The degaussing circuit in the P-Series Phono Preamplifier drives (directs?) the raw output (signal) from the + positive channel of the cartridge (when connected to the degauss inputs) to the ground of the - negative channel.

Please adhere to the following directions to use the degauss circuit:

- Connect your tonearm RCA cables to the RCA's marked Degauss on the back of the Tri-Art Phono Preamplifier.
- Put a record on your turntable and begin to play the record for about 40 seconds (there will be no sound). If your cartridge is older and has never been degaussed, perhaps play a few tracks.
- Lift the tonearm to stop it from playing and remove the RCA from Degauss and reconnect them to corresponding RCA inputs for your cartridge (MM or MC).

use & guidelines

NOTE: The Tri-Art P Series MM/MC Amplifier is designed to be left on at all times and will deliver the best sound quality over time. Current draw is minimal.

WARNING: Never disconnect the RCA inputs when the source is playing. Doing so may produce a loud transient or clip that may damage your headphones or amplifier.

Set-Up:

Before you start you will need:

- [Output] RCA Interconnect cables
 - Manufacturer specs on your phono cartridge
 - Confirm your cartridge MM or MC.
 - Determine the recommended Ohms load for the MC cartridge
- 1.** Remove the components of the box carefully and verify that you have everything listed in the “What’s In The Box” section before you start.
 - 2.** Turn off the Tri-Art passive pre-amplifier or other output device or change the input selection to another source.
 - 3.** Connect your turntable (tonearm) output cables to the input RCA's. Please Note:
 - If your cartridge is a moving magnet connect them to the input labeled moving magnet (or MM).
 - If your cartridge is a moving coil, connect them to the input labeled moving coil (or MC.)
 - Note if you are using the Tri-Art step-up transformer for your MC cartridge, (or any other brand) please connect it to the MM input.
 - 4.** Connect the ground wire from the turntable cable to one of the two ground terminals.
Do not over tighten on the back of the P-Series Phono.
 - 5.** Connect the output RCA cables to the input cables of the Tri-Art pre-amplifier/ integrated amplifier or receiver.
 - 6.** With your audio system not connected (or minimally) your phono input is not selected:
 - Connect the power supply barrel plug (the one with the EMF (is this valid) connector) to the back of the P-Series Phono.
 - Connect the other end of the barrel plug connector to the AC/DC adapter.
 - Connect the power cord IEC connector to the AC/DC adapter. Connect the male receptacle of the black power cord to your electrical outlet. A small blue LED will illuminate both on the power supply when power is enabled.
 - Turn on the Tri-Art MM/MC phono pre-amplifier from the switch located on the back panel.
 - The MM blue LED will light up. If the MC input is selected (Moving Coil) then the MM and the

MC will both illuminate. Please note: for best performance leave the unit powered on at all times.

- If you are using the optional Tri-Art Tube Buffered Power Supply.

Connect the supplied barrel plug from the P-Series Phono Amplifier to the tube buffered power supply.

- Connect the IEC input to the tube buffered power supply. Connect the other end of the barrel plug connector to the AC/DC adapter.
- Connect the power cord IEC connector to the AC/DC adapter. Connect the male receptacle of the black power cord to your electrical outlet. A small blue LED will illuminate both on the power supply when power is enabled.
- Turn on the Tri-Art MM/MC Phono Pre-Amplifier from the switch located on the back panel.
- The MM blue LED will light up. If the MC input is selected (Moving Coil) then the MM and the MC will both illuminate. Please note: for best performance leave the unit powered on at all times.
- Connect the male polarized plug to the home electrical receptacle.
- Turn the tube buffered power switch to the ON position (a blue LED light should illuminate)
- Set the tube gain switch to one of the three settings: low, medium or high
- See the manual for the tube buffered power supply for the proper use and proper operation to extend the life of the tube.

7. Turn on your Tri-Art system (or select the input to which the P-Series Phono Amplifier is connected and play the turntable. Ensure the source is selected from the Tri-Art pre-amp, integrated or receiver and the volume is at an appropriate level.

8. To set the appropriate load impedance suggested by your phono cartridge manufacturer, turn the load settings knob(s) on the front panel to the desired setting. The range extends from 4.7 ohms to 499 ohms.

9. To diminish or increase the gain, turn the appropriate gain knobs to the desired setting. The far left button is full gain and turning it clockwise lowers the gain.

MC Stage

Cartridge	Output (mV)	Rec. Loading	47		68		82R n (n)
			47R mc level (mV)	dB gain	68R mc level (mV)	dB gain	
DL103	0.15	>499	3.04	23.22	2.15	22.21	1.81
HANA EL	0.5	>400	10.14	22.01	7.16	21.71	6.02
HANA Umami	0.4	>60	8.11	22.27	5.73	21.90	4.82
DYNV K 17D3	0.26	>100	5.27	22.78	3.72	22.20	3.13
DYNV DRT XV-1t	0.35	>80	7.10	22.43	5.01	22.00	4.22
LYRA Atlas	0.56	>200	11.35	21.88	8.02	21.61	6.75
BM Ebony TR	0.1	5 to >15	2.03	23.07	1.43	21.56	1.20
Jasmine Turtle	0.38	>100	7.71	22.33	5.44	21.94	4.58

MM Stage (150pF capacitance load)

Cartridge	Output (mV)	Rec. Loading	47		75		90R n (n)
			47R mm level (mV)	dB gain	75R mm level (mV)	dB gain	
AT-VM95E	4	47k	1948.22	48.71	1785.92	44.65	1719
	4.5	47k	2191.74	48.71	2009.16	44.65	1934
2M Black	5	47k	2435.27	48.71	2232.40	44.65	2148
	5.25	47k	2557.04	48.71	2344.02	44.65	2256
2M Blue	5.5	47k	2678.80	48.71	2455.64	44.65	2363
	6	47k	2922.33	48.71	2678.88	44.65	2578
GR 1042	6.5	47k	3165.85	48.71	2902.12	44.65	2793
DJ HiOUT	8	47k	3896.43	48.71	3571.84	44.65	3438

Notes about these calculations:

MM Gain is not linked to cartridge output, where MC Gain is very dependent on the cartridge output.

MC Gain will also be effected by tweaking away from the recommended loading.

It is interesting to note that higher-end MC cartridges tend to suggest that the best loading is found by listener preference rather than listing a recommended loading.

The MM Gain is normalized for 1kHz signal and the LF output is 20 dB higher. We are looking for 1.8 to 2.5V of normalized output for the MM stage.

82		100		110		120	
mc level (mV)	dB gain	100R mc level (mV)	dB gain	110R mc level (mV)	dB gain	120R mc level (mV)	dB gain
	21.71	1.51	21.19	1.39	20.94	1.28	20.72
	21.56	5.03	21.40	4.62	21.33	4.28	21.26
	21.71	4.02	21.51	3.69	21.42	3.42	21.34
	21.91	2.62	21.61	2.40	21.46	2.22	21.33
	21.79	3.52	21.56	3.23	21.46	2.99	21.36
	21.48	5.63	21.34	5.17	21.27	4.79	21.21
	20.81	1.01	20.03	0.92	19.66	0.86	19.32
	21.74	3.82	21.53	3.51	21.43	3.25	21.35

90.9		113		127		169	
mm level (mV)	dB gain	113R mm level (mV)	dB gain	127R mm level (mV)	dB gain	169R mm level (mV)	dB gain
1.16	42.98	1643.61	41.09	1603.07	40.08	1503.92	37.60
1.06	42.98	1849.06	41.09	1803.45	40.08	1691.91	37.60
0.95	42.98	2054.51	41.09	2003.84	40.08	1879.90	37.60
0.84	42.98	2157.24	41.09	2104.03	40.08	1973.89	37.60
0.75	42.98	2259.97	41.09	2204.22	40.08	2067.89	37.60
0.67	42.98	2465.42	41.09	2404.60	40.08	2255.88	37.60
0.64	42.98	2670.87	41.09	2604.99	40.08	2443.87	37.60
0.53	42.98	3287.22	41.09	3206.14	40.08	3007.83	37.60

warranty information

MANUFACTURER'S WARRANTY:

Tri-Art Audio products are covered by a warranty for one (1) year from the date of purchase, which includes both parts and labour. Warranty activation requires a valid sales receipt from an authorized local dealer. The warranty protects against defects in materials and workmanship for one year from the original purchase date. The warranty period may be extended up to a total of five (5) years, covering both parts and labour, upon submission of the completed warranty card included in your product packaging.

ADDITIONAL WARRANTY COVERAGE ITEMS

- Coverage for manufacturing defects in electronic components, including circuit boards and internal wiring.
- Warranty for replacement of faulty knobs, switches, and connectors due to normal use.
- Protection against premature failure of internal power supplies.
- Coverage for defects in speaker drivers and crossover networks, provided the product is used within specified limits.
- Labour costs associated with warranty repairs, including return shipping to the customer within North America (if applicable).
- Support for firmware or software updates necessary to correct functional defects.
- **Important:**
Please ensure the product voltage is for North America and corrected to a 120V power supply. The warranty is valid only for products purchased and used in North America.
- **Warranty claims require proof of purchase and, if applicable, the completed warranty card.**

REMEDY

Tri-Art Audio, and exclusively Tri-Art Audio, shall initiate a repair or a replacement to bring a product that has a manufacturing defect back to proper operation. An estimate of cost to do so will be provided by Tri-Art Audio.

SHIPPING

Customer/Dealer pays shipping to Tri-Art Audio. Return Shipping charges shall be paid by Tri-Art Audio on warranty repairs.

For Non-Warranty repairs or upgrades, shipping at cost applies. An estimate for labour and parts charges will be issued and upon acceptance we will complete the desired non warranty charges.

WHAT IS NOT COVERED

- Irregularities or imperfections in the bamboo finish.
- Damage incurred during shipping (if the box arrives damaged, contact your shipper; Tri-Art Audio may refuse to accept damaged shipments).
- Return Shipping
- Water damage.
- Damage resulting from unauthorized service or repair.
- Unauthorized upgrades, such as non-approved fuse or valve replacements.
- Electrical damage caused by incorrect voltage, incorrect power supply, power surges, lightning, or storms.
- Damage resulting from overdriving speaker drivers.
- Cosmetic damage, such as scratches, dents, or discoloration not affecting product function.
- Normal wear and tear, including fading or deterioration of exterior finishes.
- Loss or theft of the product.

For any warranty service, please retain your original sales receipt and warranty card, and contact Tri-Art Audio customer support for assistance.

thank you for your purchase!

Tri-Art AUDIO

triar audio.com



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In Canada
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