



Thank you for purchasing the **AMG Teatro** moving-coil phono cartridge. This outstanding pick-up represents the cumulative work of the AMG design team and an international group of manufacturers. The titanium body is designed and manufactured in the United States. The generator and stylus cantilever are from Japan, where the Teatro is assembled and tested. All development and listening tests have been performed with the **AMG 9W2** and **12J2** tonearms mounted on the **AMG Giro** and **Viella** turntables.

Precautions

Use caution when handling the Teatro.
Do not touch or push on the cantilever/stylus assembly.
Do not open or modify the titanium body.
Do not expose to direct sunlight, high temperature or humidity.
Damage to your Teatro from any of the above are not covered by its one year warranty.

Stylus Guard

The Teatro uses a specially designed stylus guard machined from solid aluminum billet. It can be removed by gripping the stylus guard from both sides and lightly pulling downward when the cartridge is mounted in the tonearm. It is easily reattached by fitting the rounded front over the front of the cartridge, aligning the sides and the rubber o-rings, and gently pushing upwards. Please use caution when attaching or detaching the stylus guard to make sure it is properly aligned as not to damage the cantilever/stylus assembly. Your Teatro has the stylus guard attached in its packaging.

We recommend that the stylus guard be in place when handling the cartridge prior to mounting, mounting it to the tonearm, or when transporting the turntable (following instructions from your turntable/tonearm manufacturer). It is not necessary or recommended to attach the stylus guard between record plays, though you may wish to attach the guard after a listening session to protect your Teatro from unwanted disturbances.



Stylus Guard Installed

Mounting the Teatro to your Tonearm

Remove the Teatro from its packaging with the stylus guard attached using the supplied flat-head screwdriver. The screws used to mount the cartridge to the packaging are too short for most tonearm headshells, so longer screws are provided. The provided nylon washers are not compatible with AMG tonearms. You can use the nylon washers if they work with your tonearm headshell. We have supplied 4 additional sets of screws, 2 sets of flat-head (8mm and 14mm length) and 2 sets hex head (8mm and 14mm length). The 8mm length is ideal for the AMG tonearms. Choose the correct length for your headshell (enough thread for good attachment but not having any of the mounting screw protrude through the cartridge body). Use either the supplied flat-head screwdriver or obtain a 2mm hex wrench for the hex screws. When first mounting to the tonearm headshell, position the screws midway in the headshell slots and tighten the screws just enough to prevent the Teatro from easily moving. Make sure the tonearm counterweight is adjusted so the arm "floats" freely when the stylus guard is removed.

TIP: *It can be easier to mount the cartridge and attach the leads prior to attaching the tonearm to your turntable moving. Make sure the tonearm counterweight is adjusted so the arm "floats" freely when the stylus guard is removed.*

Connecting Leads

Use a pair of tweezers or needle-nose pliers to gently attach the correct leads to the appropriate pins on the rear of the Teatro. Use caution as you do not want to compress the cartridge clips on the end of the leads or break the clips or leads.

Please Note the Correct Color-Coding of Your Tonearm Headshell Leads.

- Red is right channel +
- Green is right channel -
- White is left channel +
- Blue is left channel -

Continued on reverse

TEATRO SETUP

Tracking Force: With the tonearm floating freely and the stylus guard removed, adjust your tonearm's counterweight toward its pivot to apply some downward force. Certain tonearms may use a dial to apply tracking force. If this is the case, adjust the dial to 2.0 grams. Make sure your tonearm's anti-skate is defeated or at its minimum position. The tonearm should be at a neutral or level horizontal height (VTA). Use a high quality mechanical or electronic stylus force gauge to set/check the tracking force to 2.0 grams (+/- 0.2gr). Make sure the gauge is non-magnetic and the weighing platform is a similar height to a 180 gram record on your turntable platter.

Cartridge Alignment: Use a high quality alignment gauge to properly set overhang and offset. The pivot-to-spindle length of the AMG 9W1 is 223mm, the 9W2 is 211mm and the 12J2 is 291.4mm. Check with you tonearm manufacturer for your tonearm pivot-to-spindle length. Double-check your tracking force after making this adjustment.

Anti-Skate: Begin with your tonearm's anti-skate at its minimal setting. On the AMG tonearms, the anti-skate magneto should be at its lowest position. The Teatro's dynamic compliance of 18 requires little anti-skate. After completing azimuth and VTA, you can further adjust anti-skate by ear to check for the most relaxed presentation and lowest inner groove distortion. Excessive anti-skate force can stress the cartridge suspension and is not recommended. Additionally, it is advisable to re-check anti-skate after the Teatro's 20-hour break-in period.

Azimuth: This is a critical parameter for the best stereo reproduction. Visually inspect the cartridge body when the Teatro is lowered on an 180 gram stationary record so it is parallel to the record when viewed from the front. You can also observe the reflection of the cartridge body on the record. We recommend using the **Musical Surroundings Fozgometer Azimuth Range Meter** with the **Analogue Productions Ultimate Test Record** for best results.

VTA (Vertical Tracking Angle): Start with the tonearm at a neutral or level, horizontal position. On the AMG tonearms, the bubble should be centered with the Teatro lowered on an 180 gram LP. Using a familiar record with simple instrumentation, slightly adjust the tonearm height for best focus and tonal balance. Re-check your VTA after 5 hours of cartridge break-in (approximately 15 record sides) and again after 20 hours (approximately 60 record sides).

Loading: The Teatro has an internal coil resistance of 12 Ω (ohms). Using the 10 times rule, the minimum recommended loading is 120 Ω . The optimal loading range is between 120 and 500 Ω . If you prefer, you can use a load as high as 47k Ω .

BREAK-IN AND WARM UP:

Your Teatro will require a minimum of 20 hours of play time (approximately 60 record sides) to break-in. You should notice a more relaxed presentation. It is good idea to check your setup after break-in. Your audio dealer may break-in your Teatro as part of their set-up procedure.

STYLUS CLEANING: A clean stylus, free of dust and debris results in better sound quality as well as longer cartridge and record life. Use the supplied stylus brush to remove dust, always brush in a back-to-front motion. You may also use a high quality liquid stylus cleaner, using caution to avoid getting any liquid inside the cartridge body.

DEMAGNETIZATION

A moving-coil cartridge can recover clarity if demagnetized every 30-days. This improvement becomes even more noticeable as your cartridge ages. Use only the **Aesthetix ABCD-1 Cartridge Demagnetizer**.

SPECIFICATIONS

Body: Titanium 6Al4vEli, Tiodized Type III, tapped for 2.5mm mounting hardware, 1/2" spacing
Generator: Separate coils per channel (V type), wound with Ohno cast (OCC) mono-crystal high-purity oxygen-free copper wire. Neodymium magnets, special, soft magnetic alloy yoke
Stylus Guard: Machined aluminum from solid billet
Stylus: 40 x 7 μ m Line contact (Ogura)
Cantilever: Solid Boron, .26mm diameter
Output Voltage: 0.4mV (1kHz @ 5cm/sec.)
Tracking Force: 1.8 – 2.2 grams (2.0 optimal)
Internal Coil Resistance: 12 Ω
Recommended Resistive Loading Range: 120 Ω – 47k Ω , (120 – 500 Ω optimal range)

Coil Inductance: 25 μ H (1kHz)
Vertical Tracking Angle: 23 degrees
Static Compliance: 35 x 10⁻⁶ cm/dyne
Dynamic Compliance: 18 x 10⁻⁶ cm/dyne
Frequency Response: 15 to 50,000 Hz
Channel Separation: \geq 30dB (1kHz)
Channel Balance: \leq 0.5dB (1kHz)
Dimensions: H 15.5mm (.6"), W 16.75mm (.66"), D 20.875mm (.8")
Weight: 10.95 grams

Specifications subject to improvement without notice

For questions or additional information on this or any other AMG product visit www.amg-turntables.com