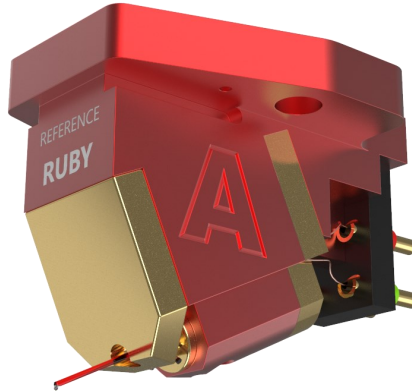


# AVIDHIFI



## REFERENCE RUBY

MOVING COIL CARTRIDGE



**THANK YOU** for purchasing the AVID REFERENCE RUBY cartridge. We trust you will experience many hours of musical enjoyment. Before attempting to use your cartridge, please read these instructions in full.

This low output moving coil cartridge must be matched with a suitable phonostage. All AVID phonostages are suitable, but to fully realise its potential we highly recommend our Pulsare II model. Phonostages are also available from other manufacturers. Refer to the specifications at the end of this manual to confirm compatibility.

The REFERENCE RUBY is a very delicate device and great care must be used during its installation and in use. Take care when removing from packaging, do not drop it or touch the stylus tip. Ensure the stylus guard is in place during the installation process and whenever the cartridge is not in use.

## INSTALLATION AND PRECAUTIONS

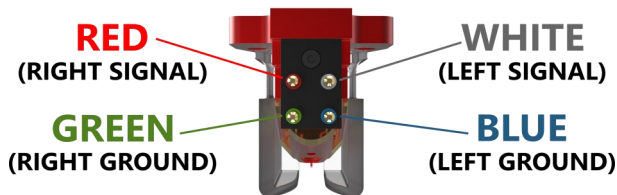
### Attaching Cartridge to the Headshell

Install the cartridge into your tonearm's headshell using the two M2.5 bolts provided. The cartridge body has threaded fixing holes so there is no need to use nuts. Do not use excessive force when attaching the cartridge to the headshell as this risks damage to the cartridge threads. Do not use different size bolts or any other fixing method such as adhesive.

### Connections

Connect the lead wires to the cartridge terminals using the colour-code in the illustration.

It is imperative that all connections are clean and secure to achieve optimal performance. Do not attempt to solder the connections.



## Tracking weight

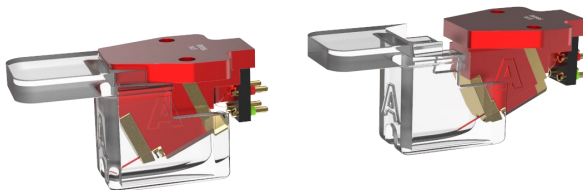
The first stage of setting up your cartridge is to adjust the tracking weight to the suggested a value of 2.0g. We recommend using electronic stylus scales and must be set with the stylus guard removed.

## Vertical Tracking Angle (VTA) and Overhang

Following the manufacturer's instructions, adjust the tonearm VTA. Typically, this means when the stylus is on the record the tonearm will be level. Now you should set the Overhang so that the cartridge traces the record groove correctly. We recommend the use of an AVID alignment gauge or the tonearm's supplied alignment gauge.

## Tracking weight and Bias Compensation (anti-skate)

You should now check the tracking weight as this may have changed. Adjust the Bias Compensation in line with the tonearm's recommendations. Altering the tracking weight within the specifications may affect sound quality and some experimentation would be worthwhile.



## STYLUS GUARD

The stylus guard protects the fragile cantilever. Care must be taken when removing and replacing the guard. The guard slides on two slots machined into the body of the cartridge and is removed by gently pulling the tab on the front. Always replace the guard if the cartridge is to be left unused for any length of time.

## STYLUS CLEANING

Ensuring your records are clean is the best way to keep your stylus clean and prolong the life of your records and stylus. If your stylus becomes contaminated with dust, use a soft brush to gently clean the tip, only using a back-to-front movement, NOT side-to-side. We do not recommend the use of commercial cleaning vibrators.

## STYLUS REPLACEMENT AND WARRANTY

In the case of a worn stylus, AVID HIFI Ltd will provide a replacement cartridge at a special discount. The same special discount applies to all non-warranty claims. The cartridge is warranted for a period of two years from the date of purchase against electrical and mechanical defects, provided the instructions have been adhered to and the online warrant registration has been completed.

To activate your warranty, please register online at: **[www.avidhifi.com](http://www.avidhifi.com)**

This warranty does not cover stylus wear or damage to the stylus assembly from mishandling or abuse.

In these situations, first contact your retailer and if a return is required, it should be in the original packaging.

| SPECIFICATIONS—AVID RUBY  |              |                            |                              |
|---------------------------|--------------|----------------------------|------------------------------|
| <i>Type</i>               | Moving Coil  | <i>Compliance</i>          | 8.5x10 <sup>-6</sup> cm/dyne |
| <i>Output Voltage</i>     | 0.32mv       | <i>Internal Resistance</i> | 4.7Ω                         |
| <i>Frequency Response</i> | 10 Hz-50 kHz | <i>Load Impedance</i>      | >100Ω                        |
| <i>Channel Separation</i> | 29dB @ 1kHz  | <i>Cantilever Material</i> | Ruby                         |
| <i>Channel Balance</i>    | 0.1dB @ 1kHz | <i>Stylus Profile</i>      | Micro-ridge solid diamond    |
| <i>Tracking Force</i>     | 2.0g         | <i>Contact Radius</i>      | 3μm x 70 μm                  |
| <i>Trackability</i>       | >70μm @2.0g  | <i>Net Weight</i>          | 9.1g                         |



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