

# NAD Phono Preamplifier PP 2



- **Low noise, wide band MM & MC phono stage**
- **Connect your turntable to almost all amplifiers and receivers**
- **External 24 volt power supply**
- **Gold plated input sockets**
- **High quality components**
- **LED power indicator**

## INSTALLATION & OPERATION OF NAD PP 2

- Please make sure all ancillary equipment is turned off, and that the NAD PP 2 is not yet connected to its dedicated Power Supply.
- Connect the leads from the turntable to the appropriate input sockets; MC for moving coil, MM for movingmagnet cartridge on the back of the PP 2. Make sure you connect the Right channel to the Right input; the Left channel to the Left input. Normally, Red connector denotes the Right Channel; White denotes the Left channel. Once the turntable leads are connected, set the MC/MM switch on the back of the PP 2 to the correct input setting.
- Connect suitable RCA leads from the NAD PP 2 to the amplifier or receiver. Always use a so-called 'Line-Level' input, such as CD, AUX, Tuner or Tape. **Never** connect the lead from the NAD PP 2 to an input marked Phono or turntable. Again, make sure to connect the Red plug to the Right channel, and the White plug to the Left channel of the amplifier or receiver.
- If the lead from your turntable is equipped with a separate earth (GND) lead, connect this directly to a ground connection on the PP 2. Use the thumb screw terminal "GND" which provides the grounding.
- Connect the dedicated Plug-in Power Supply to the NAD PP 2 (marked 24V).
- Insert the Plug-in Power Supply to a live mains socket; the green LED on the NAD PP 2's front panel will light up.
- Installation is now complete. As the power consumption of the NAD PP 2 is negligible, it can always be left switched on. It is recommended however that you disconnect the Plug-in Power supply from the mains if you are not going to use the NAD PP 2 for a prolonged period of time (such as a holiday).

### To play a record:

- Ensure that the volume on the amplifier or receiver is set to a low level.
- Select the input on the amplifier or receiver to which the NAD PP 2 is connected, use amplifier or receiver and turntable as normal, set to desired volume level.

### Troubleshooting:

Always turn down the volume to a low level or turn off all equipment before checking.

| Problem                     | Cause                                                                                                                                                                                                                                                                                                           | Solution                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| • No sound                  | <ul style="list-style-type: none"><li>• (LED is not lit) Power Supply not connected to either NAD PP 2 or mains socket</li><li>• (LED is lit) Wrong input on amplifier / receiver selected</li><li>• Plugs from turntable and / or lead from PP 2 to amplifier / receiver sockets not properly fitted</li></ul> | <ul style="list-style-type: none"><li>• Plug in dedicated Power Supply</li><li>• Select input to which NAD PP 2 is connected</li><li>• Check all connections (make sure to turn off all equipment beforehand)</li><li>• Check to see if the MM/MC selector switch is set correctly for your type of turntable cartridge (make sure to turn off all equipment beforehand)</li></ul> |
| • Sound in one channel only | <ul style="list-style-type: none"><li>• Plugs from turntable and / or lead from PP 2 to amplifier / receiver sockets not properly fitted</li></ul>                                                                                                                                                              | <ul style="list-style-type: none"><li>• Check all connections (make sure to turn off all equipment beforehand)</li></ul>                                                                                                                                                                                                                                                           |
| • Hum or Buzz noise         | <ul style="list-style-type: none"><li>• No connection from turntable to ground</li><li>• Earth loop present</li><li>• Interference from nearby equipment</li></ul>                                                                                                                                              | <ul style="list-style-type: none"><li>• If connected, disconnect turntable's earth lead from amplifier / receiver</li><li>• Move NAD PP 2 and cables further away from other equipment</li><li>• Check to see if the MM/MC selector switch is set correctly for your type of turntable cartridge (make sure to turn off all equipment beforehand)</li></ul>                        |

### MM SPECIFICATIONS

|                                                        |                      |
|--------------------------------------------------------|----------------------|
| Input impedance (R and C)                              | 47k $\Omega$ + 200pF |
| Gain at 1 kHz                                          | 34dB                 |
| Signal to noise (A weighted, with cartridge connected) | 80dB                 |
| (Unweighted, with cartridge connected)                 | 67dB                 |
| Input overload (20Hz/1kHz/20kHz)                       | 10/102/950mV         |
| Rated distortion (THD 20Hz - 20kHz)                    | 0.03%                |
| RIAA response accuracy                                 | $\pm$ 0.3 dB         |
| Dimensions excl. Power supply (W x H x D)              | 135 x 35 x 70 mm     |
| Input sensitivity (ref. 200 mV output)                 | 2.5mV                |

### MC SPECIFICATIONS

|                                                        |                       |
|--------------------------------------------------------|-----------------------|
| Input impedance (R and C)                              | 100 $\Omega$ + 180 pF |
| Gain at 1 kHz                                          | 56 dB                 |
| Input sensitivity (ref. 200 mV output)                 | 0.3mV                 |
| Signal to noise (A weighted, with cartridge connected) | 78 dB                 |
| (Unweighted, with cartridge connected)                 | 67 dB                 |
| Input overload (20Hz/1kHz/20kHz)                       | 0.8/9/84mV            |
| Rated distortion (THD 20Hz - 20kHz)                    | 0.03%                 |
| RIAA response accuracy                                 | $\pm$ 0.3dB           |
| Dimensions excl. Power supply (W x H x D)              | 135 x 35 x 70 mm      |



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