



- **Low Noise, Wide Band MM phono stage** • **External 15V power supply**
- **Gold Plated input sockets** • **Gentle subsonic filter minimises rumble**
- **High quality lead with Gold Plated RCA plugs**
- **LED power indicator** • **Metal case provides shielding from outside interference**

Over the past years Compact Disc has effectively taken over from the vinyl record which has prompted many manufacturers of HiFi separates to delete the phono stages from their range of amplifiers and receivers. NAD recognised that there are still many people who wish to continue playing their cherished record collection, despite this trend. Although there are various phono pre-amplifiers available that are very cheap, their quality is equally 'Low-Fi'. At the other end of the scale are very elaborate MM/MC phono stages, which often cost as much as an entire system. Until the availability of the NAD Model PP-1 Phono Pre-amp, there was no real alternative to fill the large void between these two extremes.

Ever since the first NAD amplifiers and receivers came out, the integrated phono stages have always been renowned for their excellent performance and the Model PP-1 follows this tradition.

Design

The external power supply ensures that the transformer's hum and noise don't affect the integrity of the turntable's cartridge signal. Instead of using a plastic case as many outboard phono stages do, the Model PP-1 uses a heavy gauge steel box to house the electronics to avoid any RF contamination from the outside environment, such as radio stations and computers. Apart from RF contamination, the steel housing also minimises external hum from e.g. a power amplifier nearby.

The circuitry itself boasts a gentle subsonic filter to minimise any rumble emanating from the turntable or record itself. Instead of the standard 12 Volts supply normally used the Model PP-1 runs on 15 Volts for increased dynamic range. Extra on-board low-noise regulators are used to further contain any spurious hum. Combined, the external power supply, metal housing high-grade, low noise op-amp and other high quality, close tolerance components achieve a signal to noise ratio one would normally expect only in costly amplifiers or receivers.

Features

Attention to detail means that the input sockets for the turntable are gold plated to ensure a quality contact over even a prolonged period of time. Instead of using sockets for the output to the amplifier or receiver the PP-1 uses a fixed, low capacitance and well shielded signal cable terminated with gold plated plugs. This approach avoids another set of plugs and contacts with a separate interconnecting cable which can potentially degrade the quality of the signal.

The end result is a phono pre-amp which is superior in performance to many of the phono stages found in separate amplifiers or receivers. If one is serious about the reproduction of their collection of vinyl records, the NAD Model PP1 presents an excellent opportunity to upgrade. If one is considering or already owns a component without a phono stage the NAD Model PP-1 represents probably the only choice offering excellent performance at a reasonable price.

SPECIFICATIONS - NAD PP-1

Input impedance (R and C)		47k Ω + 220pF
Input sensitivity	ref. 200mV output	2.5mV
Signal to noise	A weighted	78dB
	Unweighted	72dB
Input overload	20Hz/1kHz/20kHz	55/63/580mV
Rated distortion	THD 20Hz - 20kHz	0.04%
RIAA response accuracy		\pm 0.5dB

Physical Specifications

Dimensions (W x H x D)	135 x 35 x 70 mm
Net weight (excluding power supply)	0.45kg
Shipping weight	0.96kg