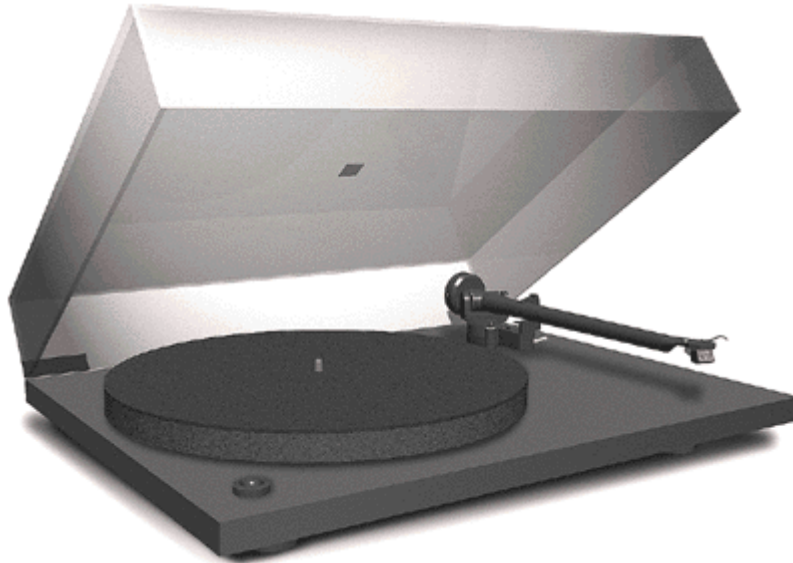


NAD

classic series

533 Turntable



the short form

The **NAD 533** is, by far, the lowest-priced high-performance turntable available. Its tone arm is excellent, and it comes with the fine Goldring Elektra cartridge.

Its feature list includes:

- High-torque synchronous motor
- High-density non-resonant base
- High-quality Goldring Elektra cartridge
- One-piece aluminum pressure-cast tone arm
- Miniature ball bearings for tone arm
- Statically-balanced tone arm
- Magnetic anti-skate

a closer look

For the many people who want to enjoy yesterday's classic LPs and today's premium new vinyl releases, the choice in equipment tends to be between two uncomfortable extremes. There are inexpensive, ill-performing turntables at one end of the spectrum, and at the other are tremendously expensive and complex combinations built from separate decks, tone arms and cartridges. "Expensive" in this case can mean multiple thousands of dollars -- and require considerable expertise to install and maintain. The NAD 533 turntable is a sensible and welcome alternative. It combines a precision turntable assembly with a quality tone-arm and cartridge at a very reasonable price.

A high-torque, synchronous motor drives the 533's platter indirectly through a belt. The platter spindle is supported by a precision bearing located inside a solid brass housing that is bored out to within 20 microns tolerance to keep rumble at bay. While most platters are made of metal, the 533's is manufactured from medium-density fibreboard (MDF), whose high mass provides a flywheel action for smooth rotation and consistent speed. Acoustically the platter is almost dead, so it doesn't suffer the acoustic sensitivity at certain frequencies that is common with metal platters and that frequently colours sound as a result. The platter's thick felt mat damps the remaining acoustic energy further, and provides even support for the record throughout.

Many turntables use hollow bases to house the motor, spindle bearing, and well. These bases tend to amplify resonances, which can be transferred to the platter, tone arm and cartridge to affect sound adversely. The 533, however, keeps resonances as low as possible by using a base that is a solid piece of MDF. Large rubber feet isolate the entire turntable from external vibrations. Both these measures reduce the turntable's sensitivity to acoustic feedback.

The tone arm is a one-piece aluminum pressure cast tube for absolute rigidity to eliminate inherent resonances. The arm's high-quality, hardened-steel miniature bearings are within very close tolerances, allowing for maximum, friction-free movement without play. The lever-operated cueing mechanism is damped for easy and exact placement of the stylus onto a record.

Instead of opting for the frequent cost-control measure of using an inferior cartridge, the NAD 533 comes fitted with the Goldring Elektra as standard. It is a moving-magnet design, with no need for external step-up transformers.

The 533 is quintessential NAD -- a simple, moderate-cost product with excellent performance and long-term reliability. If you have been wanting to return to enjoying the distinctive sound of vinyl, or explore it for the first time, you couldn't ask for a better and more satisfying way to slip inexpensively into the fun of playing records. If, like most present amps and receivers, yours does not have a phono input, the addition of our simple and inexpensive PP-1 accessory phono preamp will allow you to enjoy the 533 to the fullest.



Instructions for Use

This turntable has been engineered to give extremely good musical reproduction. Inherent in the design are several features that improve sound quality and focus the manufacturing costs where they are most needed.

Example: Speed control is achieved by manually moving the drive belt from one pulley to another as shown below.

533



The cost saving from the use of manual speed change allows a very expensive low vibration motor with an accuracy exceeding that of conventional designs to be employed.

Tips and Suggestions

- 1 Try to mount the turntable on a rigid, level surface. A light shelf screwed to the wall or in an alcove would be ideal. Avoid mounting on hollow or heavy cabinets, or anything mounted on a wooden floor.
- 2 Try to keep the lid closed whilst playing records. This will prevent dust falling onto the records and make cleaning unnecessary. There may also be a sound improvement.
- 3 Don't use a record cleaner that works as the record plays, or any cleaners that use water or fluids. Don't touch the playing surface of records. Visible dust on the record surface is simply brushed aside by the stylus, and any that collects there can easily be blown away.
- 4 Try to leave the turntable running during a record playing session. Switch on before the start, and only switch off after the last record has finished. Changing records whilst the platter revolves is easier than it sounds!
- 5 DO NOT lift the centre hub from its bearing. The bearing is factory assembled with a film of thick lubricant. Disturbance of this can cause serious problems with speed variation and wear.
- 6 When switching on the turntable, especially at 45rpm, it is recommended to give the platter a quick spin clockwise as the 'ON' switch is pressed. This relieves strain on the motor and belt.
- 7 No maintenance should be necessary. If the turntable is working well, leave it alone. Some settling of the anti-vibration feet may cause the turntable to lean backwards slightly after a few months, but this is nothing to worry about.
- 8 Don't use any polishes on the turntable or lid. To clean or dust, wipe gently with a soft cotton duster (slightly damp, only if necessary).
- 9 The tonearm is automatically earthed (or ground) through the arm cable screening. No other earthing should be necessary.
- 10 Save the packing, in case the turntable has to be transported in the future.
- 11 When the record reaches the end of one side, remember to lift the stylus off the surface of the record using the lift/lower mechanism.

Enjoy the music!

Goldring Elektra cartridge

Your NAD 533 turntable comes with a factory fitted Goldring Elektra moving magnet cartridge.

When following the setting-up instructions, please note that the optimum tracking weight is 1.7 grams for the cartridge. The bias adjustor should then be set to the same setting.

Replacement styli are available from your NAD dealer.

Goldring Elektra Technical Specifications

Transducer Characteristics

Frequency response	20Hz - 20kHz \pm 3dB
Channel balance	2dB at 1kHz
Channel separation	20dB at 1kHz
Sensitivity	5mV \pm 2dB 1kHz at 5cm/second
Static compliance	16mm/N
Equivalent tip mass	0.7mg
Vertical tracking angle	26°
Stylus radius	Elliptical 0.0007" x 0.0003" (18 μ x 7 μ)
Stylus type	Replaceable

Electrical Characteristics

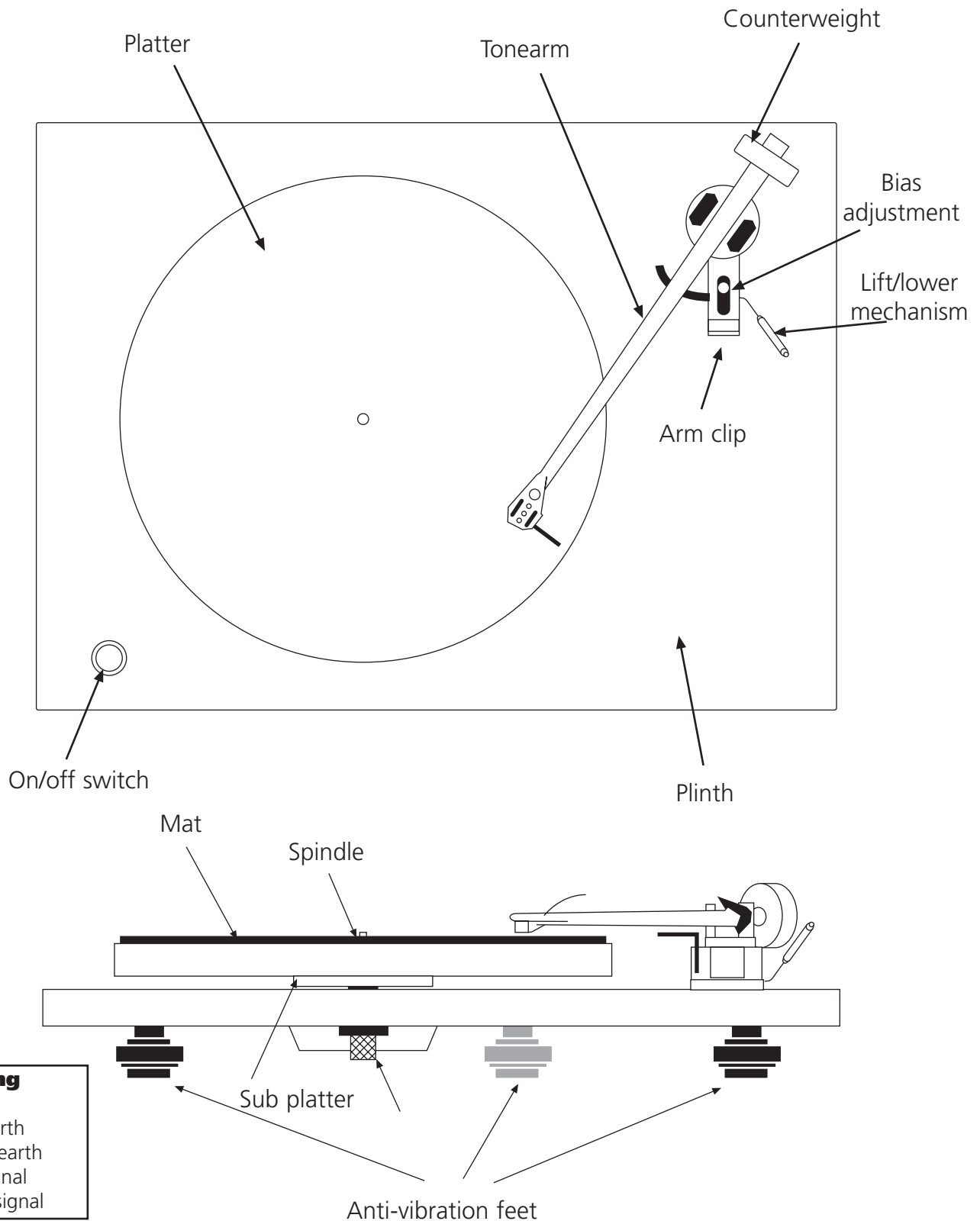
Load resistance	47k Ω
Load capacitance	150-400 pF
Internal inductance	560 mH
internal resistance	700 Ω

Mechanical characteristics

Cartridge weight	4.2g
Fixing centres	0.5" (12.7mm)
Tracking weight	1.5-2.0g (1.7g nominal)



The NAD 533 Turntable



Setting up the cartridge

With the cartridge fitted using the alignment protractor supplied and the wiring chart (shown left), next set the tracking force and thrust bias. First, slide off the plastic protection shroud from the cartridge... **Carefully** unclip the arm from its holder and make sure that the bias adjuster is set to zero, use the balance weight to 'float' the stylus about 1mm clear of a record, then dial inwards with the weight, (1 complete turn = 2g) until the cartridge's tracking weight is achieved. Finally, set the bias adjuster to the same setting.

533 Specifications

Drive system	Belt drive
Motor	High torque synchronous motor
Speeds	33.3 and 45.1 rpm
Suspension system	3 energy absorbent synthetic rubber feet
Tonearm	
Operation	Manual
Length	289mm total length - 244mm pivot to stylus
Effective mass	9 grams
Overhang	19.1mm
Cartridge weight	4.2 grams
Vertical tracking force	1.7 grams nominal
Cable capacitance	150-400pF

Cartridge specification: Transducer Characteristics

Frequency response	20Hz - 20kHz \pm 3dB
Channel balance	2dB at 1kHz
Channel separation	20dB at 1kHz
Output level	5mV \pm 2dB at 1kHz at 5cm/s
Static compliance	16mm/N
Equivalent tip mass	0.7g
Vertical tracking angle	26 degrees
Stylus radius	Elliptical 0.00072 in x 0.0003 in (18 μ x 7 μ)
Stylus type	replaceable

Cartridge specification: Electrical characteristics

Load resistance	47k ohms
Load capacitance	150-400pF
Internal inductance	560mH
Internal resistance	700 ohms

Cartridge specification: Mechanical characteristics

Cartridge weight	4.2g
Fixing centres	0.5" (12.7mm)
Tracking weight	1.5 - 2.0g (1.7g nominal)

533 Physical Specifications

Dimensions (WxHxD) with dust cover down	17 3/8 x 4 9/16 x 14"	447 x 115 x 356mm
Net Weight	11.57	5.25kg
Shipping Weight	15.21lb	6.9kg