Supplemental to New Product Information (SNPI)

TEAC

TN-3B
Analog Turntable

A new, high-performance standard for belt-drive analog turntables

■ Features at-a-glance

- 2-speed, belt-drive turntable offering 33-1/3 and 45 rpm speeds
- Knife-edge, pivot-point tonearm designed by high-end tonearm manufacturer SAEC
- Static-balanced, S-shaped tone-arm with pre-installed audio-technica AT-VM95E MM cartridge
- Die-cast aluminum platter
- USB digital output for digital archiving on PC/Mac
- PHONO/LINE analog outputs (switchable)
- Built-in PHONO EQ amplifier, compatible with MM-type cartridges
- Hi-fi grade NJM8080 op-amp used in PHONO EQ stage

Brand	TEAC	TEAC	TEAC
Series	Turntable series		
Model Name	TN-3B-A/B	TN-3B-A/CH	TN-3B-A/WH
Product name	Belt-drive Analog Turntable		
Color	Black	Cherry	White
UPC Code	043774034253	043774023460	043774034277
EAN Code	4907034222841	4907034222858	4907034222865
Product W x H x D / NW	420 x 117 x 356 mm / 16.5" x 4.6" x 14.0" 5.0kg / 11.0 lbs.		
Package W x H x D / GW	550 x 224 x 436 mm/ 17.3" x 8.8" x 17.2" 7.4kg /16.4 lbs..		
Quantity per master carton	1 pc.		

*Note: Not every color is available in every country.

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■ Product overview

The TN-3B is a stylish, sleek-looking belt-driven turntable with a built-in MM-type PHONO EQ amplifier and USB digital output.

It employs a new tonearm with knife-edge, pivot-point bearings, co-developed with SAEC, the high-end tonearm manufacturer, for superlative stability and resolution.

The belt-drive mechanism, meanwhile, helps mitigate any unwanted cogging effects (ie fine pulsing) from the operation of the motor, to ensure a precise and smooth platter rotation.

The TN-3B also employs a high-precision NJM8080 op-amp in its in-built Phono EQ amplifier, allowing the user to enjoy the sound of their vinyl records with low distortion and in high quality. In addition, a built-in Analog-to-Digital converter and USB port allow users to digitise their vinyl libraries on their PC/Mac.

The TN-3B delivers a natural and well-balanced sound quality and is quick and easy to set up and start enjoying. We believe it sets a new standard that will satisfy the needs of both audiophiles and ardent record collectors.

● Knife-edge, pivot-point tone-arm bearings

In collaboration with SAEC Corporation, a world-famous, high-end tonearm manufacturer, the TN-4D's tonearm employs a knife-edge, pivot-point bearing. Unlike the case for tonearms with conventional bearings, any fine vertical movements that take place in this tonearm actually help in delivering a more dynamic sound with excellent resolution. The S-shaped tonearm also employs a universal headshell fitting, allowing users to quickly and easily swap cartridges/headshells, and supports a wide range of cartridge weights (from 14 - 23g / 0.5 - 0.8 oz.)

● Precision anti-skating and stylus-pressure adjustment

The static-balanced, S-shape tone-arm is equipped with a counterweight for precise stylus-pressure adjustment, as well as an anti-skating mechanism for accurate tracking force adjustment, allowing the cartridge to accurately play any quality vinyl disc.

● Pre-installed VM-series cartridge

An audio-technica AT-VM95E cartridge with an elliptical-shaped stylus tip comes pre-installed on the headshell for convenience. After you've opened the box, set up the platter and mounted the headshell on the tonearm, you'll be ready to enjoy your records.

* *Replacement styli should be available at the retail store where you purchased the unit, or via the TEAC On-line store. (TEAC On-line store is available in selected countries.)*
* *The VM-series cartridge is a MM (Moving Magnet) type design, and is compatible with all conventional MM-type phono EQ amplifiers.*

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● **Built-in MM-type phono EQ amplifier**
The TN-3B incorporates an MM-type phono EQ amplifier, allowing you to connect the turntable to a conventional amplifier/hi-fi system that lacks a PHONO input. A low distortion, hi-fi-grade op-amp, the NJM8080, is employed to boost the low-level signals from the phono cartridge up to LINE level.

● **External belt-drive with aluminum die-cast platter**
A belt-drive arrangement is employed in order to minimise any motor cogging effects by driving the outer rim of the platter (which has a larger diameter, mass and surface area).

● **Luxurious, multi-layer lacquer paint finish**
All internal components are mounted on a robust and high-density MDF plinth for rigidity and vibration-deadening. Thanks to its sleek and stylish design, the TN-3B looks at home in most domestic environments, creating the perfect setting for listening to vinyl records.

● **USB digital output for digital archiving**
A USB port on the back panel delivers CD-quality digital audio to your PC/Mac, allowing you to record/archive your analog library in a high quality, digital audio format. Once you have archived your vinyl to digital, it's a simple matter to listen to them while out and about, via a smartphone/portable audio player, or in your car (by burning them onto a CD-R or transferring them to a memory card/stick).

And to ensure pristine signal transfer, gold-plated PHONO/LINE output terminals are employed to prevent analog audio signals from losing quality as a result of oxidation.

● **33-1/3 and 45 rpm 2-speed turntable**
The TN-3B supports both 33-1/3 and 45 rpm for LP and EP records. Our insistence on quality engineering can even be seen in the construction of the rotary control for start-up/speed selection, formed of machined aluminium.

● **Insulating feet with excellent shock absorption**
The insulating feet comprise a machined aluminium shell, topped with a rubber cushion that is fixed to the high-density MDF plinth. Thanks to their excellent shock absorption characteristics, the TN-3B is very resistant to acoustic feedback.

● **Honeycomb patterned bottom panel**
In order to achieve sleek cabinet design without compromising rigidity, the bottom panel is imprinted with a honeycomb pattern that minimises unwanted vibrations.

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■ Key Features

- Belt-drive mechanism
- 2-speed turntable supporting 33-1/3 and 45 rpm
- Knife-edge, pivot-point tonearm, designed by high-end tonearm manufacturer SAEC
- Aluminum die-cast platter
- Built-in PHONO EQ amplifier compatible with MM-type cartridges
- Hi-fi grade op-amp, NJM8080, used in PHONO EQ stage
- Anti-skating mechanism
- USB digital audio output for digitising records on a PC/Mac
- PHONO/LINE analog output (switchable)
- Gold-plated oxidation-resistant output connectors
- Pre-installed audio-technica AT-VM95E cartridge
- Rigid, high-density MDF plinth with multi-layered lacquer finish
- Shock-absorbing insulating feet
- GND terminal
- RoHS compliant

■ Specifications

Turntable section

Type	Belt-drive
Motor	DC Motor
Rotation speed	33-1/3rpm, 45rpm
Wow and flutters	less than 0.1%
Signal-to-Noise ratio	67dB (A-weighted,20KHz LPF)
Platter	Die-cast aluminium, 30cm diameter

Tonearm section

Type	Static-balanced, S-shape with knife-edge bearings
Effective tone-arm length	223mm
Anti-skating mechanism	Supported
Stylus pressure range	0 to 5g
Compatible cartridge weight	3.0g to 12g
	14g to 23g (incl. head-shell)

Cartridge section

Type	VM-series (Moving Magnet-type)
Output voltage	4.0mV (1kHz, 5cm/sec.)
Stylus pressure range	1.8g to 2.2g (2.0 g recommended)
Cartridge weight	6.1g
Head-shell weight	11g (incl. screws, nuts, and wires)
Stylus life	approx. 300 hours (depending on conditions)

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Analog outputs

Connectors	RCA output x 1 pair (gold-plated)
Output Voltage	
PHONO EQ THRU	4.0mV (1kHz, 5cm/sec.)
PHONO EQ ON	224mV (-13dBV)

USB section

Connector	USB B-type (FULL-SPEED) x 1
	(DC 5V 500mA supply required)
Sampling frequency	8k / 11.025k / 16 k/ 22.05k / 32k / 44.1k / 48kHz
Bit depth	16-bit

General

Power	AC 100V to 240V, 50/60Hz
Power consumption	less than 1.5W
Standby power	less than 0.5W
GND terminal	Fitted
Operating temperature range	5℃ to 35℃
Overall dimensions	420 x 117 x 356mm / 16.5" x 4.6" x 14.0" (dust cover closed)
	420 x 381 x 402mm / 16.5" x 15.0" x 15.8" (dust cover opened)
Weight	approx.5.0Kg / 11.0 lbs.

Included accessories	Felt mat x1
	EP adapter x1
	Counter-weight x1
	Headshell (with AT-VM95E pre-installed) x1
	Platter x1
	Dust cover x
	Rubber feet for dust cover x2
	Hinges x2
	RCA audio cable x1
	AC Adapter (GPE053A-V120050) x1
	Owner's manual (incl. Warranty) x1

■ Rear Panel