

TEAC



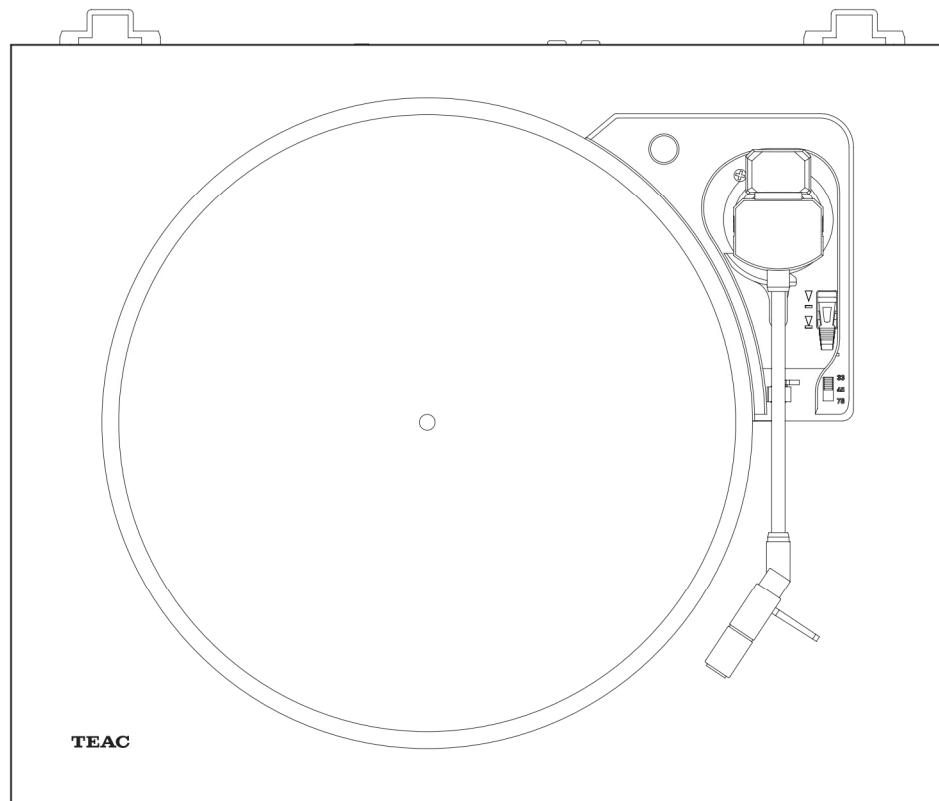
OPTN100TEA14



TN-100/TN-180BT

ENGLISH

ANALOG TURNTABLE



OWNER'S MANUAL
MODE D'EMPLOI
MANUAL DEL USUARIO

Bluetooth®





CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead in an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that could be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point in an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION

- DO NOT REMOVE THE EXTERNAL CASES OR CABINETS TO EXPOSE THE ELECTRONICS. NO USER SERVICEABLE PARTS ARE INSIDE.
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT THE STORE WHERE YOU PURCHASED THE UNIT FOR A SERVICE REFERRAL. DO NOT USE THE PRODUCT UNTIL IT HAS BEEN REPAIRED.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

IMPORTANT SAFETY INSTRUCTIONS

- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

- 11) Only use attachments/accessories specified by the manufacturer.

- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.

- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

- The apparatus draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
- The mains plug is used as the disconnect device, the disconnect device shall remain readily operable.
- Caution should be taken when using earphones or headphones with the product because excessive sound pressure (volume) from earphones or headphones can cause hearing loss.

IN USA/CANADA, USE ONLY ON 120 V SUPPLY.

CAUTION

- Do not expose this apparatus to drips or splashes.
- Do not place any objects filled with liquids, such as vases, on the apparatus.
- Do not install this apparatus in a confined space such as a book case or similar unit.
- The apparatus should be located close enough to the AC outlet so that you can easily reach the power cord plug at any time.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Model for USA

Declaration of Conformity



Responsible party: TEAC AMERICA, INC.
Address: 1834 Gage Road, Montebello, California, U.S.A.
Telephone number: 1-323-726-0303

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the equipment and/or the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.



This product complies with the European Directives request, and the other Commission Regulations.

For European Customers

Disposal of electrical and electronic equipment and batteries and/or accumulators

a) All electrical/electronic equipment and waste batteries/accumulators should be disposed of separately from the municipal waste stream via collection facilities designated by the government or local authorities.

b) By disposing of electrical/electronic equipment and waste batteries/accumulators correctly, you will help save valuable resources and prevent any potential negative effects on human health and the environment.

c) Improper disposal of waste electrical/electronic equipment and batteries/accumulators can have serious effects on the environment and human health because of the presence of hazardous substances in the equipment.

d) The Waste Electrical and Electronic Equipment (WEEE) symbols, which show wheeled bins that have been crossed out, indicate that electrical/electronic equipment and batteries/accumulators must be collected and disposed of separately from household waste.



Pb, Hg, Cd

If a battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) as defined in the Battery Directive (2006/66/EC), then the chemical symbols for those elements will be indicated beneath the WEEE symbol.

e) Return and collection systems are available to end users. For more detailed information about the disposal of old electrical/electronic equipment and waste batteries/accumulators, please contact your city office, waste disposal service or the shop where you purchased the equipment.

Model for Canada

Industry Canada's Compliance Statement:
This Class B digital apparatus complies with Canadian ICES-003.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.



Wireless equipment precautions (TN-180BT only)

Compliance of radio transmitter and interference

This product has the function of broadband transmitter using 2.4GHz Band.
Use frequency range: 2400 MHz – 2480 MHz
Maximum output power: Bluetooth® Class 2 (less than 2.5 mW)
Please use only in the country where you purchased the product. Depending on the country, restrictions on the use of Bluetooth wireless technology might exist.

Model for USA

Declaration of Conformity

Responsible party: TEAC AMERICA, INC.
Address: 1834 Gage Road, Montebello,
California, U.S.A.

Telephone number : 1-323-726-0303

This device complies with Part.15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



Labeling of authorization
FCC ID: XEG-TN180BT

Model for Canada

Compliance of radio transmitter

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- 1) This device may not cause interference; and
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Labeling of authorization
IC: 1559C-TN180BT

Compliance of interference
This Class B digital apparatus complies with Canadian ICES-003.

Model for EEA (European Economic Area)



Hereby, TEAC Corporation declares that the radio equipment type is in compliance with Directive 2014/53/EU, and the other Directives, and Commission Regulations.

The full text of the EU declaration of conformity is available at the following internet address. Please contact us by e-mail:
<http://www.teac-audio.eu/en/>

TEAC Corporation
1-47 Ochiai, Tama-shi, Tokyo, 206-8530, Japan

Radiation Exposure requirements

This equipment meets the regulation, which is recognized internationally, for the case of human exposure to radio waves generated by the transmitter.

Statement of compliance

Model for USA

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency Exposure Guidelines.

Model for Canada

This equipment complies with IC RSS-102 radiation exposure limits set forth for an uncontrolled environment.

Model for EEA (European Economic Area)

This equipment complies with EN.62311; Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields; the harmonised standard of DIRECTIVE 2014/53/EU.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Information for interference

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the equipment and/or the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Trademarks and copyrights

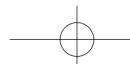
The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by TEAC CORPORATION is under license.

Apple, Mac, OS X and macOS are trademarks of Apple Inc., registered in the U.S. and other countries.

Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective owners.

ENGLISH



Contents

Thank you for choosing TEAC. Read this manual carefully to get the best performance from this unit.

IMPORTANT SAFETY INSTRUCTIONS	2
Wireless equipment precautions (TN-180BT only).....	3
Trademarks and copyrights.....	3
Before use.....	4
Connections	5
Names and functions of parts	5
Handling records.....	6
Dust cover	6
Basic operation.....	7
Notes about record styluses.....	8
Recording with a computer (TN-100 only).....	8
Listening with Bluetooth® speakers (TN-180BT only)	9
Troubleshooting	10
Specifications	11

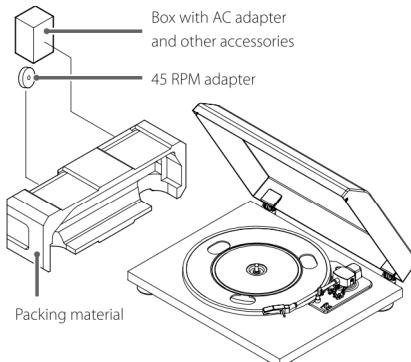
Before use

Included items

Check to be sure the box includes all the supplied accessories shown below. Please contact the store where you purchased this unit if any of these accessories are missing or have been damaged during transportation.

- Rubber mat × 1
- 45 RPM record (EP) adapter × 1
- Dust cover × 1
- Hinges × 2
- RCA audio cable × 1
- AC adapter (GPE053A-V120050) × 1
- Owner's manual (this document) × 1
 - Keep this manual in a safe place for future reference.
- Warranty card × 1 (for customers in the USA and Canada only)
 - See the back of this document for information about the warranty in Europe and other countries or areas.

- The 45 RPM adapter and the box that contains the AC adapter and other included accessories are inside the packing material as shown in the illustration below.



Precautions for use

- Place the unit on a flat surface.
- Do not place anything on the dust cover. Objects on the cover might cause noise due to vibrations or fall off, especially during playback.
- Avoid placing the unit in direct sunlight, close to a source of heat or in other similar conditions. Do not place the unit on top of an amplifier or other equipment that might generate heat that exceeds the operating temperature range of this unit. Doing so could cause discoloration, deformation or malfunction.
- As the unit could become warm during operation, always leave sufficient space around it for ventilation. When installing this unit, leave a little space (at least 20 cm (8")) between it and other devices and walls to allow good heat dissipation.
When placing it in a rack, for example, leave at least 35 cm (13 3/4") open above it and 10 cm (4") open behind it. Failure to provide these gaps could cause heat to build up inside and result in fire.
- DO NOT MOVE THE UNIT DURING PLAYBACK. During playback, the record rotates. Do not lift or move the unit during playback. Doing so may damage the record, the stylus, the cartridge or the unit.
- Always remove the record before relocating or moving this unit. Moving the unit with a record on the turntable could damage the record, the stylus and the cartridge or could cause a malfunction.
- The voltage supplied to the unit should match the voltage as printed on the rear panel. If you are in any doubt regarding this matter, consult an electrician.

Maintenance

If the surface of the unit gets dirty, wipe it with a soft cloth or use diluted mild liquid soap. Allow the surface of the unit to dry completely before using.

- Do not use chemical cleaning cloths, thinner or similar substances as they could damage the surface of the unit.

CAUTION

For safety, disconnect the power cord from the socket before cleaning.

Product registration

Customers in the USA, please visit the following TEAC website to register your TEAC product online.

<http://audio.teac.com/support/registration/>

Using the TEAC Global Site

You can download updates for this unit from the TEAC Global Site:

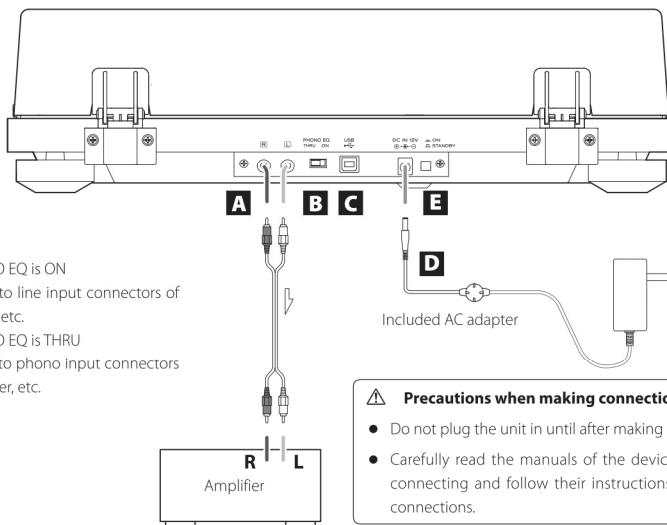
<http://teac-global.com/>

- Open the TEAC Global Site.
- In the TEAC Downloads section, click the desired language to open the Downloads website page for that language.

NOTE

- If the desired language does not appear, click Other Languages.
- Click the "Search by Model Name" section to open the Downloads page for that product. (Users in Europe should click the product name in the "Products" section instead.)
 - Select and download any updates that are needed.

Connections

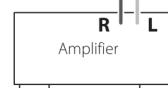


When PHONO EQ is ON

Connect to line input connectors of amplifier, etc.

When PHONO EQ is THRU

Connect to phono input connectors of amplifier, etc.



This illustration is of the TN-100.

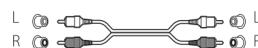
A Analog audio output connectors (L/R)

These output analog audio signals.

The PHONO EQ switch setting changes the type of output signal.

Use the included audio cables (or commercially-available ones) to connect to analog audio input connectors (LINE, PHONO, etc.) on other equipment.

RCA audio cable



B PHONO EQ (audio output setting) switch

ON

Audio signals that have been amplified by the built-in phono equalizer amp are output from the analog audio output connectors (L/R).

THRU

The signal from the stylus is output directly through the analog audio output connectors (L/R).

Use this when connecting to equipment that has PHONO inputs.

- When shipped new from the factory, this is set to ON.

CAUTION

When set to ON, if connected to the PHONO inputs of an amplifier, for example, the output from speakers and headphones will be very loud, which could damage equipment or harm hearing.

C USB port (USB B type) (TN-100 only)

Analog audio from the record is converted to PCM digital signals (up to 48kHz/16-bit) and output through this. Recording on a computer is possible by connecting this to a USB port on the computer using a USB cable (type A to type B) (page 8).

D DC input connector

After completing audio cable connections, connect the included AC adapter here.

Confirm that the power plug of the AC adapter is plugged into a power outlet.

- Do not use any AC adapter other than the one included.

Be sure to connect the power cord to an AC outlet that supplies the correct voltage. Connection to an outlet that supplies incorrect voltage could cause fire or electric shock.

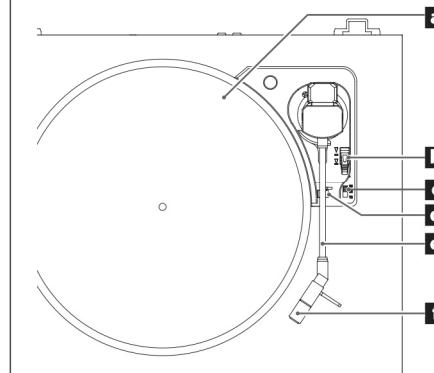
Hold the power plug when plugging it into an outlet or unplugging it. Never pull or yank on the power cord.

Unplug the power cord from the outlet when you are not planning to use the unit for an extended period of time.

E STANDBY/ON button

Press the STANDBY/ON button to turn the unit on or put it in standby.

Names and functions of parts



ENGLISH

This illustration is of the TN-100.

a Turntable (platter)

Place records centered on the turntable (platter).

- Place the included rubber mat on the turntable (platter) before using it.

b Arm lifter

Use this to raise and lower the tip of the stylus.

We recommend using the arm lifter to avoid damaging records and styluses, because it is safer and more certain than using a finger to do so.

c Rotation speed setting knob

Select the rotation speed indicated on the record to be played.

d Tone arm holder

This is a rest for the tone arm.

e Tone arm

f Headshell

ATTENTION

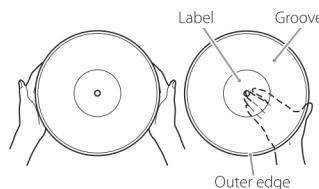
Always remove the protective cover (white) before use. Keep this protective cover to protect the tip of the stylus during transportation.



Handling records

Holding records

When holding a record or removing it from its sleeve, avoid touching the grooves by holding the record by its label and edge with one hand or by holding it by its edge with both hands.



Cleaning

- Fingerprints and dust on a record can cause noise and the sound to skip, as well as damage the record itself and the stylus. Use a commercially available record cleaner to clean records. Do not use thinner or anything other than a record cleaner. Such chemicals could harm the surface of the record.
- When using a record cleaner, wipe the surface of the record in a circular motion, following the grooves.

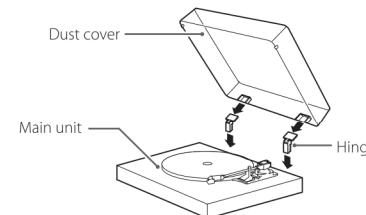


Precautions

- Do not leave records in places that are exposed to direct sunlight or are very hot or very humid. Leaving a record in such a condition for a long time could result in warping, mold growth or other damage.
- Do not stack multiple records or place heavy objects on top of them. Do not leave records at an angle for long amounts of time, either. Doing so could result in warping or other damage.
- Do not allow hard objects to directly touch the audio grooves. Doing so could cause scratches.
- After you finish playing a record, always put it back into its sleeve for storage. Leaving a record unprotected could result in warping or scratching.
- Do not use cracked records.

Dust cover

Attaching the dust cover

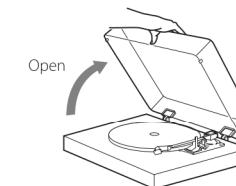


- Insert the hinges completely into the hinge holders at the left and right ends of the back of the main unit.**

- Align the tops of the hinges with the dust cover hinge holders and insert them.**

- Close the dust cover during playback. Doing so prevents stylus skipping caused by unintended contact and protects the stylus tip from outside sound pressure.
- Do not open or close it when a record is playing. Doing so could, for example, cause the stylus to skip.
- Keep it closed whenever possible to keep dust out.

Opening and closing the dust cover



Opening

Hold the front edge of the dust cover and gently lift it open completely until it stops. The dust cover will stay open in this position.

Closing

Gently lower the dust cover until it is closed.

- ⚠ Be careful not to pinch your fingers, for example, when opening and closing the dust cover.**

Removing the dust cover

Hold both edges of the dust cover and lift it slowly to remove it along with the hinges from the unit. Then, remove the hinges from the dust cover.



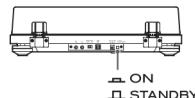
Basic operation

Playing records

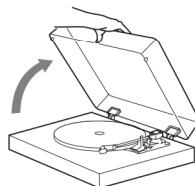
ATTENTION

Do not vibrate the unit during playback. Doing so could cause the sound to skip and damage the record and stylus.

- 1** Press the STANDBY/ON button on the back of the unit to turn it on.



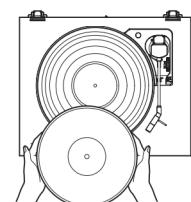
- 2** Open the dust cover slowly.



⚠ Be careful not to pinch your fingers, for example, when opening and closing the dust cover.

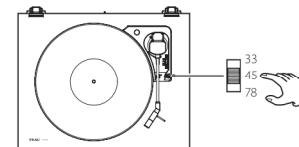
- 3** Place a record on the turntable (platter).

When playing a 45 RPM large-hole single record, use the included adapter.

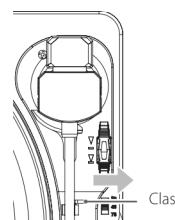


- 4** Select the rotation speed indicated on the record.

The rotation speed can be set to 33 1/3, 45 or 78 RPM.

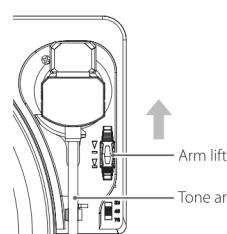


- 5** Slide the tone arm clasp to the right to remove it.



Clasp

- 6** Use the arm lifter to raise the tone arm.

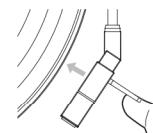


Arm lifter

Tone arm

- You can also move the tone arm above the record with the arm lifter lever forward and then slowly lower the tone arm to start playback.

- 7** Move the tone arm to the track where you want to start playback.



ATTENTION

- Always remove the protective cover (white) before use. Keep this protective cover to protect the tip of the stylus during transportation.
- The first song starts at the outer edge of the record. Lower the stylus to the outer edge of the record if you want to listen to the first song.

- 8** Use the arm lifter to lower the tone arm.

The tone arm lowers slowly until the stylus touches the record and playback begins.

- Close the dust cover during playback. Since doing this prevents skipping caused by unintended contact and blocks external sound pressure, it makes noise less likely to occur.

- ⚠ Do not place anything on the dust cover.**

CAUTION

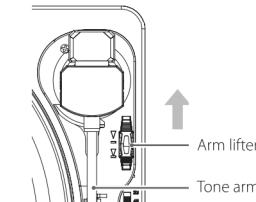
- During playback, do not touch the tone arm or the rotating record. Doing so could damage the stylus tip and cause scratches on the record.
- Do not forcibly stop turntable rotation during playback. Since this product is not a turntable designed for DJs (direct drive), doing something like this could cause malfunction.

If the volume is too loud during record playback, vibration from speakers could be transmitted to the stylus, causing loud feedback. If this happens, lower the volume of the amplifier.

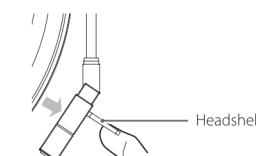
When playback finishes

When playback finishes, the tone arm automatically returns to the tone arm holder and the rotation stops.

To manually interrupt playback, use the arm lifter to raise the tone arm and then return the tone arm to its resting position.



Arm lifter



Headshell

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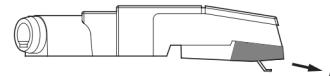




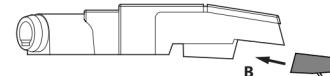
Notes about record styluses

- Record styluses are precision parts, so handle them carefully to avoid bending or damaging their tips. If a stylus becomes bent or damaged, it might not be able to follow the audio groove precisely and could damage records or cause other malfunction.
- If a stylus becomes dirty, use a commercially available stylus cleaner or similar product to clean it.

When detaching a record stylus (the orange part), hold the cartridge and pull the record stylus in the A direction to remove it.



When installing a new stylus, insert it in the B direction, pushing it in so that its clasp is aligned with the cartridge.



Replacement stylus (sold separately): STL-122 diamond stylus (includes 2)

For stylus replacements, contact your dealer or TEAC listed on the back of this Owner's manual.

Replacing the stylus

A record stylus will become worn down after it has been used for about 500 hours. This will worsen the sound quality and could damage records. Replace the stylus with one that we recommend before this occurs.

CAUTION

- Before replacing the stylus, turn this unit and the amplifier off. Failure to do so could cause sudden loud noises that might damage speakers.
- Be careful not to hurt your hand or the equipment.
- Be careful not to allow small children to accidentally swallow styluses.
- Be aware that bent styluses, for example, that result from insufficient customer caution or an outside cause are not covered by the warranty.

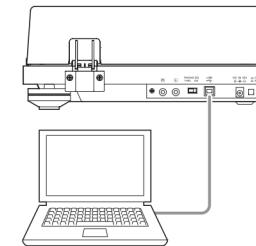
Recording with a computer (TN-100 only)

Connecting with a computer

1 Turn the computer on.

Confirm that the operating system is working correctly.

2 Use the USB cable to connect the computer and this unit.



- Use a commercially-available USB cable with a ferrite core when connecting the unit to a computer.

3 Press this unit's STANDBY/ON button to turn it on.

When they are connected, the computer will automatically detect this unit's USB port and identify it as "USB Audio CODEC".

- To record audio from this record player using a computer, you must first install software that can be used for audio recording on the computer. You may purchase the audio recording software that you prefer separately or download free software, such as Audacity (<http://www.audacityteam.org/>), from the Internet. As free software, Audacity is not supported by TEAC.
- When connected to a computer by USB and recording audio, do not do any of the following. Doing so could cause the computer to malfunction. Always quit the computer recording software before doing the following.
 - Disconnect the USB cable
 - Put the unit into standby

Computer settings

The following example explains the settings to make using Windows 7.

- 1** From the Start menu, select Control Panel.
- 2** Click "Sound".
- 3** Click the "Recording" tab, and confirm that "USB Audio CODEC" is set as the "Default Device".
- 4** Select "Microphone USB Audio CODEC", and click the Properties button.
- 5** Click the "Advanced" tab.
- 6** From the "Default Format" pull-down menu, select the audio quality (format) that you want to use for recording.

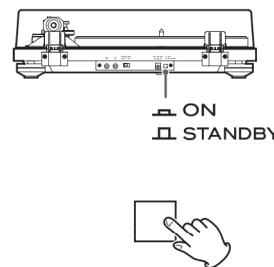
NOTE

"2 channel, 16 bit, 48000 Hz (DVD quality)" provides high audio quality but also requires more file space. Recording with a lower sampling frequency reduces the audio quality but also uses less file space.

- 7** Click "OK".

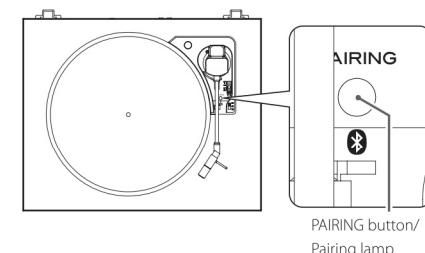
This unit has a Bluetooth transmitter that can send sound to Bluetooth speakers wirelessly.

- 1** Press the STANDBY/ON button on the back of the unit to turn it on.



- 2** Pair and connect the Bluetooth speakers.

- When connecting to a Bluetooth speaker, move other Bluetooth speakers and receiving devices at least 10 meters (33 ft.) away from this unit or turn them off.



Listening with Bluetooth® speakers (TN-180BT only)

Pairing Bluetooth speakers

Pairing this unit with another Bluetooth speaker is necessary the first time you connect with that Bluetooth speaker.

- Press the PAIRING button on this unit to start connection mode.**

The pairing lamp will blink slowly.

- This unit will enter pairing mode if a connected Bluetooth speaker is not found for nine seconds. The pairing lamp will blink rapidly.

When this unit and the Bluetooth speaker are connected, the pairing lamp will stay lit without blinking.

- Refer to the operation manual of the Bluetooth speaker for information about how to use it.
- Pairing might take some time depending on the connected Bluetooth speaker.
- This unit will connect to the closest Bluetooth speaker. If no Bluetooth speaker is found for about three minutes, Bluetooth standby mode will begin and the pairing lamp will become unlit.

Connecting already paired Bluetooth speakers

- Since this unit switches from connection mode to pairing mode quickly, we recommend putting the Bluetooth speaker into pairing mode before doing the following.

- Press the PAIRING button on this unit to start connection mode.**

The pairing lamp will blink slowly.

When this unit and the Bluetooth speaker are connected, the pairing lamp will stay lit without blinking.

- 3** Play a record.

- Bluetooth connection is also possible while a record is playing.

- Adjust the Bluetooth speaker volume if necessary.
- This unit cannot be used to adjust the volume.
- To end a connection, press the PAIRING button on this unit for at least three seconds to enter Bluetooth standby mode or turn this unit off.

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Troubleshooting

If you experience a problem with this unit, please check the following items before requesting service. Something other than this unit could also be the cause of the problem. Please also check that the connected devices are also being used properly.

If it still does not operate correctly, contact the retailer where you purchased the unit.

TN-100/TN-180BT

No power.

- ▶ Confirm that the AC adapter is plugged into an outlet. Then, press the STANDBY/ON button to turn the unit on (page 5).

There is no sound.

- ▶ When connecting this unit's analog audio output connectors to the audio input connectors of an amplifier or other equipment, set the PHONO EQ (audio output setting) switch to ON (page 5).

Playback is not possible; there is noise.

- ▶ Confirm that the stylus cover (made of white plastic) has been removed.
- ▶ Fingerprints and dust on a record can cause noise and the sound to skip. Use a commercially-available record cleaner to clean records (page 8).
- ▶ Clean the stylus (page 8).
- ▶ If the stylus is worn-out, replace it (page 8).
- ▶ Place the unit as far away as possible from TVs, microwave ovens and other devices that emit electromagnetic waves.

The pitch is wrong.

- ▶ Select the rotation speed indicated on the record (page 7).

The sound is skipping.

- ▶ Vibrations will cause skipping. Place this unit in a stable location.
- ▶ If the record is dirty, wipe it clean.
- ▶ Do not use scratched records.

TN-180BT only

Connection is not possible with the Bluetooth speaker I want to connect.

- ▶ Turn both this unit and the Bluetooth device off once. Turn them both on and try pairing again.
- ▶ Turn off the power of other Bluetooth speakers within 10 meters (33 ft). The closest Bluetooth speaker will be paired.

Connection with the Bluetooth speaker succeeded, but I cannot hear any playback sound.

- ▶ Check the volume of the Bluetooth speaker.
- ▶ Press the PAIRING button on this unit for at least three seconds to disconnect the Bluetooth speaker once. Then, try pairing again.
- ▶ Turn this unit off and then on again. Then, press the PAIRING button to try pairing again.

Connection with the smartphone is not possible.

- ▶ This unit functions as a Bluetooth transmitter, and it can send sound to Bluetooth speakers. Since it does not function as a Bluetooth receiver, it cannot be connected to a smartphone.



Specifications

Turntable (platter)

Drive system	Belt drive
Motor.....	DC motor
Rotation speed.....	33 1/3 rpm, 45 rpm, 78 rpm
Rotation speed variation	±2%
Wow and flutter.....	0.25%
SN ratio	64 dB or higher (A-weighted, 20 kHz LPF)
Turntable (platter).....	Plastic 29cm (11 1/2") diameter

Tone arm

Arm type.....	Static-balanced straight-pipe tone arm
Effective arm length.....	200 mm

Cartridge

Type	MM
Output voltage.....	2.4 mV ±3 dB (10 kHz, 3.54 cm/s)

**Replacement stylus (sold separately):
STL-122 diamond stylus (includes 2)**

For stylus replacements, contact your dealer or TEAC listed on the back of this Owner's manual.

Output voltage

PHONO EQ THRU.....	2.4 mV ±3 dB
PHONO EQ ON.....	149 mV (-16.5 dBV)
Output connectors.....	RCA

USB port (TN-100 only)

USB port that can receive power from computer USB buses (Full Speed)	USB connector type B
USB bus power support	5 V, 500 mA
● Use a commercially-available USB cable to connect the unit to a computer to receive power from it.	
Sampling frequency	

8 kHz, 11.025 kHz, 16 kHz, 22.05 kHz, 32 kHz,
44.1 kHz, 48 kHz

Quantization bit depth..... 16-bit

Bluetooth function (TN-180BT only)

Bluetooth version	4.0 (DUAL MODE)
Output class	Class 2
Supported profile	A2DP
Codec.....	SBC

General

AC adapter power	
Input.....	AC 100 V – AC 240 V, 50–60 Hz
Output.....	12 V, 500 mA
Power consumption	
Standby	
TN-100.....	0.2 W or less
TN-180BT	0.3 W or less
On	
TN-100.....	1.5 W or less
TN-180BT	2 W or less
Weight.....	3.5 kg (7 3/4 lb)
Operating temperature range	5°C to 35°C
Dimensions (W × H × D) (including protrusions)	
When the dust cover is closed	420 × 105 × 356 mm (16 5/8" × 4 1/4" × 14 1/8")
When the dust cover is open	420 × 356 × 386 mm (16 5/8" × 14 1/8" × 15 1/4")
When the dust cover is removed	420 × 92 × 356 mm (16 5/8" × 3 5/8" × 14 1/8")

- Performance data is specified at 20°C.

Included accessories

Rubber mat × 1
45 RPM record (EP) adapter × 1
Dust cover × 1
Hinges × 2
RCA Audio cable × 1
AC adapter (GPE053A-V120050) × 1
Owner's manual (this document) × 1
Warranty card × 1 (for customers in the USA and Canada only)

- Specifications and appearance are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations in this owner's manual might differ slightly from production models.

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