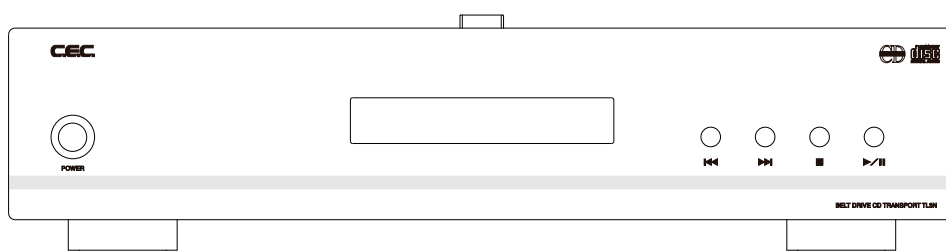


BELT DRIVE CD TRANSPORT

TL3N

Owner's Manual



CEC

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Introduction

Thank you for purchasing the TL3N.

Please read through and refer to this Owner's Manual to use your TL3N safely and adequately. It is recommended that you keep the unit's packaging available for future transportation needs.

Features

- TL3N is a CD transport that uses CEC's Proprietary belt drive mechanism to minimize the vibration and electromagnetic noise from the motors, enabling the precise reproduction of music signals.
- TL3N's double belt drive system, which drives both the spindle and the pickup with belts, minimizes noise contamination and provides delicate and accurate music reproduction.
- The top-loading design allows the use of a stabilizer for maximum disc stability.
- TL3N features multiple digital outputs, including CEC's proprietary "SuperLink" system. SuperLink connection with CEC's D/A converters, using high-quality BNC cables, ensures a perfect synchronized operation with the converter.
- In addition, a word clock input is equipped. Connecting an external clock generator to TL3N as well as the D/A converter the system works with zero-jitter.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to potential electric shock hazards within the product's enclosure.



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

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

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use the TL3N near water.
- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install the TL3N near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) (For USA, Canada:) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades, with one blade wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the

provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet. (For European Countries:) Do not defeat the safety purpose of the grounding-type plug. This plug has two poles and a third grounding hole. The third hole is provided for your safety. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

10) Protect the TL3N's power cord from being walked on or pinched, especially around the plugs, convenience receptacles, and where it exits the TL3N's casing.

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

12) Only use the TL3N with a cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the unit. If using a cart, exercise caution when moving the cart/ unit combination to avoid injury from it tipping over.



13) Unplug the TL3N during lightning storms or when leaving it unused for extended periods of time.

14) Refer all servicing to qualified service personnel. Servicing is required when the TL3N itself, its power-supply cord, or plug has been damaged in any way, when liquids have been spilled onto the TL3N, when foreign objects have fallen into the TL3N, when the TL3N has been exposed to rain or moisture, when the TL3N does not operate normally, or when the TL3N has been dropped.

CAUTION:

- DO NOT EXPOSE THE TL3N TO DRIPS OR SPLASHES.
- DO NOT PLACE ANY OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ON THE TL3N.
- DO NOT INSTALL THE TL3N IN A CONFINED SPACE, SUCH AS WITHIN A BOOKCASE OR SIMILAR PIECE OF FURNITURE.
- PLUG THE AC POWER CORD INTO AN EASILY ACCESSIBLE AC WALL OUTLET, SO IT CAN BE QUICKLY UNPLUGGED IN CASE OF EMERGENCY.
- DO NOT REMOVE THE PROTECTIVE HOUSING WITH A SCREWDRIVER.
- USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF

PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

- IF THE TL3N SEEMS TO BE MALFUNCTIONING, CONTACT A QUALIFIED SERVICE STATION. DISCONTINUE USE OF ANY MALFUNCTIONING UNIT.

For CANADA

AC POWER CORD CONNECTION

CAUTION:

TO PREVENT ELECTRIC SHOCK, MATCH THE BLADE WIDTH OF THE PLUG TO THE SLOT WIDTH. THE PLUG MUST BE FULLY INSERTED TO THE SLOT.

Handling Precautions

❶ Connecting Other Devices

Unplug the TL3N's AC power cord from the outlet before connecting or disconnecting other devices. Exercise caution when handling the AC power cord. When disconnecting the AC cord from a socket, make sure you pull the plug, and not the cord itself.

❷ Turning Power On/Off

Your system components should be turned on/off in the following order to avoid generating noise from your speakers and damaging the speakers themselves or other devices:

Turning power on: Turn on the TL3N's power first, before turning on the DA converter or amplifier connected to the TL3N.

Turning power off: Turn off the amplifier's power first, before turning off the TL3N.

❸ Optical Semiconductor Laser Pickup

The optical pickup is one of the important components that determine the performance of a CD player. Never touch the optical lens of the pickup with your fingers, etc. Close the CD door to keep the lens clean when not in use.

❹ CD Stabilizer

Only use the provided CD stabilizer with the TL3N. Commercially available stabilizers may cause the unit to malfunction.

❺ Handle With Care

Avoid exerting excessive force on the cabinet, the switch, the knob, the CD

door and the CD-turntable on the TL3N.

⑥ Installation

Use of an audio rack is recommended to maximize the sound quality and performance of the TL3N. Installation and use of the TL3N in the locations described below may cause deterioration in sound quality or malfunction:

- Locations exposed to direct sunlight, such as windowsills, and other exceptionally warm locations, such as near heating appliances (surrounding temperature higher than 35 °C), or exceptionally cold locations (surrounding temperature lower than 10 °C), may prevent the TL3N from functioning adequately.
- Damp locations exceeding 90% humidity may cause the TL3N's metal parts to rust, causing the unit to malfunction.
- Dusty locations may cause the TL3N to malfunction. The accumulation of dust inside the CD door may lower the performance of music signal reading. It may also cause contact failure of the switches, and/or noise.
- Otherwise, avoid installing the TL3N close to other transformers and electrical motors, so as to prevent the pickup of induction hum. Also, avoid mounting the unit on surfaces that may be affected by vibration.

⑦ Avoid lightning strikes

Disconnect the AC power cord from the AC outlet when there is a thunderstorm in your vicinity.

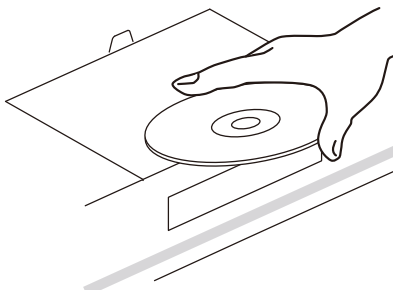
⑧ Condensation When the TL3N is brought into a warm room when the exterior temperature is cold, or when the room temperature rises sharply from using a heater, condensation may form both inside and outside the unit, hampering its performance. If this happens, leave the TL3N unused in the room for 1 to 2 hours (depending on the amount of condensation), so as to bring the unit's temperature closer to the room temperature. The condensation should go away gradually.

⑨ Listening etiquette

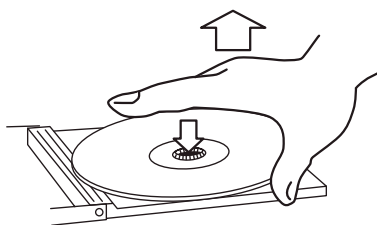
When adjusting the sound volume level, make sure you do not disturb other people and your neighborhood.

Compact Disc Handling

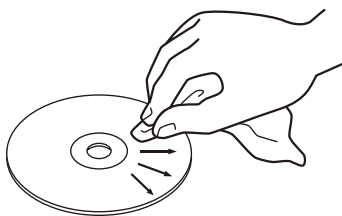
- Since a compact disc can be played or recorded only on one side, discs should always be placed on the turntable with the label side up.



- When taking a compact disc from its case, lift it out by holding the edge of the disc while pressing down on the center button of the case.

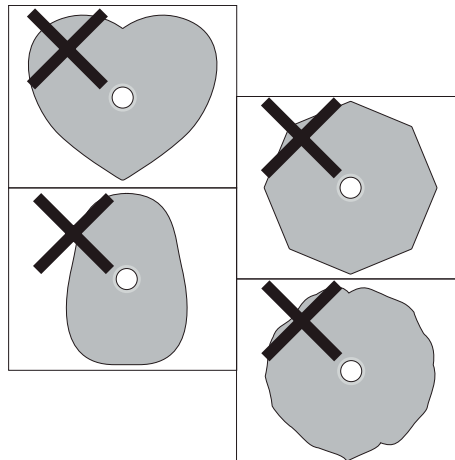


- Handle compact discs with care so as not to scratch their surfaces. Scratches, fingerprints or soiling may cause reading errors during playback.
- If a compact disc's surface becomes soiled, wipe it directly away from the disc's center with a soft, dry cloth. Try to keep the discs clean at all times.



- Never use chemicals such as record sprays, anti-static sprays, benzene or thinner to clean a disc. These may corrode the surface of a disc.
- Do not place discs in any locations subject to high temperatures and high humidity, or that receive direct sunlight. Keep discs away from radiators and electrical heaters. CD-R and CD/RW discs are especially sensitive to ultraviolet rays, so keep them out of direct sunlight.
- To avoid dust and scratching or warping of discs that could cause reading errors, replace discs in their cases after use.

- Do not attach any labels on a disc surfaces. Do not use discs that have Scotch tape, labels, excessive label glue exposed on the surface. These may cause the TL3N to malfunction.
- Do not use cracked discs or irregularly shaped discs (octagonal, heart-shaped, or any other special shapes). These may cause the unit to malfunction.



CD -R/RW DISC

- The TL3N is able to playback CD-R/RW discs recorded in audio CD format and finalized. Some CD-R/RW discs may be unplayable due to the quality of the CD-R/ RW disc and/or the quality of the recording.
- Do not attach stickers or protective seals on discs and do not use any protective coating sprays. If you wish to label a disc, only write on the label side using soft-tipped insoluble pens. Never use ballpoint pens or hard-tipped pens.

NONSTANDARD DISC

- Copy-protected discs and nonstandard discs may not be playable with this player. If you experience any problems with non-standard discs, contact the manufacturer of the disc first.

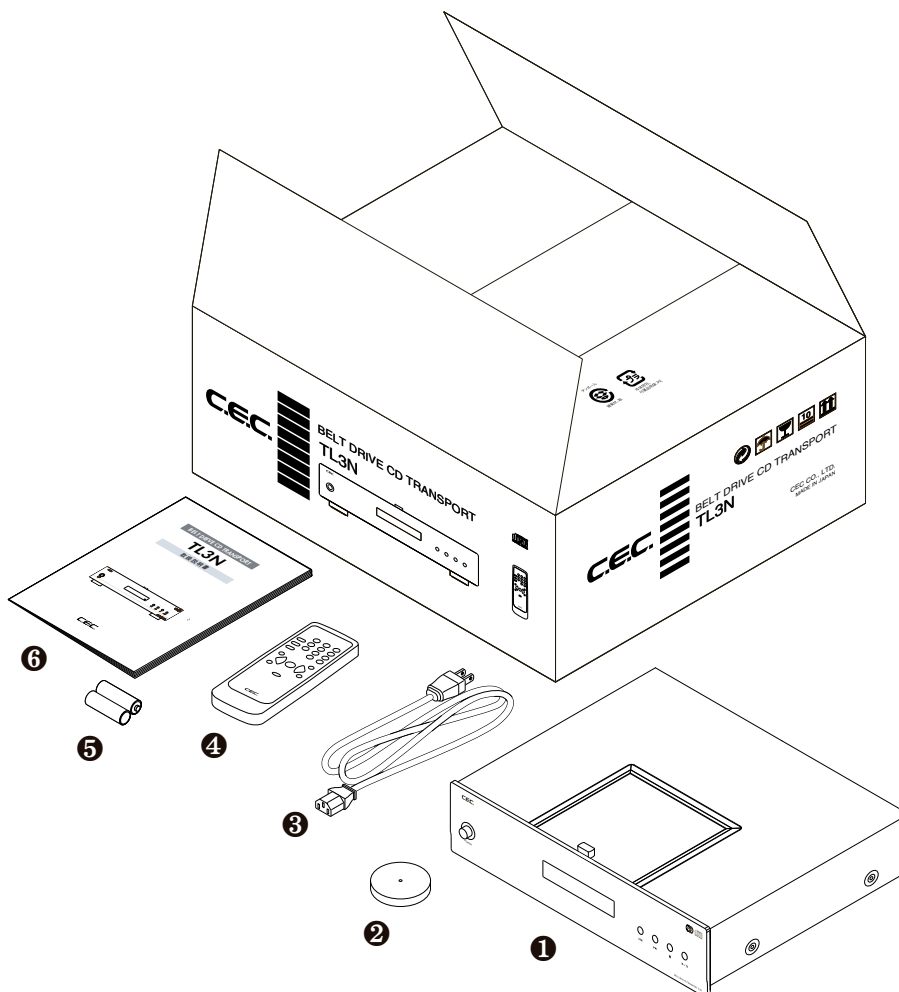
Accessories

TL3N should contain the following:

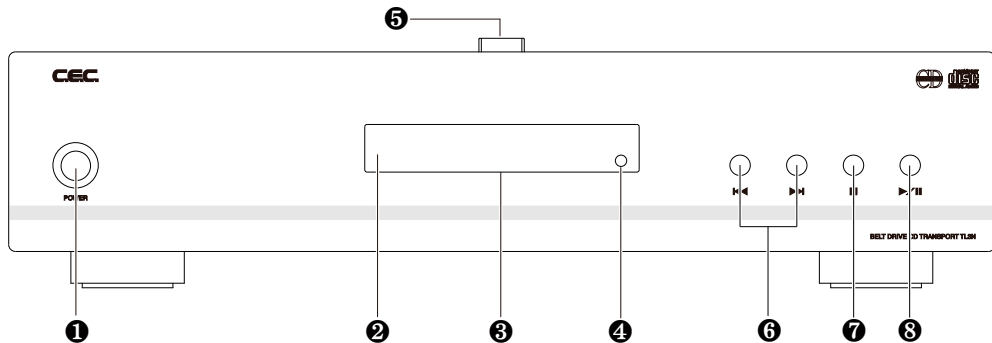
- ❶ TL3N unit
- ❷ Stabilizer
- ❸ AC Power Cord
- ❹ Remote Control unit
- ❺ Two AAA batteries for the remote control unit
- ❻ Owner's Manual

NOTE: Keep the packaging available for future transportation needs.

The AC power cord is for use with the TL3N exclusively, and should not be used for other devices.



Front Panel Functions

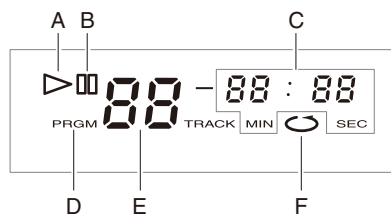


❶ POWER Button

Press the POWER button to turn the power ON or OFF. The switch will light up with a blue color while power is ON. When the TL3N is turned on, the display will blink "0 0:00" and the unit will check its tray for a compact disc. Approximately 5 seconds later, the display will change to indicate the total number of tracks and the total playing time. If there is no disc on the tray, the display will indicate "no dISC".

❷ Remote Sensor

The remote sensor, which receives signals from the remote control unit, is located to the left of the display. Aim for this sensor when using the remote control unit. The remote control may malfunction if there are any obstacles between the remote control unit and the remote sensor.



❸ Display Panel

After reading a table of contents (disc information) the display panel indicates the total number of tracks and total playback time, and during playback the track number being

played and elapsed time are displayed.

- A. Playback ▷ indicator: lights up during playback
- B. Pause || indicator: blinks during pause mode
- C. Time display: indicates the elapsed time/remaining time for the track being played, total remaining time or total elapsed time
- D. Programming indicator: lights up during program mode
- E. Track number display: indicates the track being played

F. Repeat indicator: lights up when repeat mode is enabled

④ Word Clock Indicator

The LED will light up when TL3N works with the clock coming from an external clock generator connected with the TL3N word clock input.

⑤ CD Door

Open the CD door sliding backward by hand when placing a compact disc on the tray.

⑥ Track Skip ◀◀/▶▶ Buttons

Press the Skip forward ▶▶ or backward ◀◀ button to jump to the next or previous track from the track being played (or displayed).

Note: Pressing the skip backward ◀◀ button during playback, playback will return to the beginning of the track being played. Press the skip backward ◀◀ button twice repeatedly to jump to the previous track.

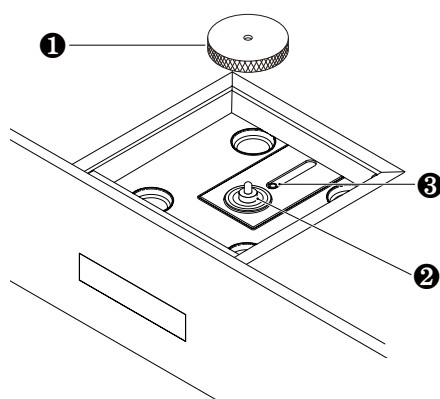
⑦ Stop ■ Button

Press the STOP button to stop playback.

⑧ PLAY/PAUSE ▶/⏸ Button

Press the button to start or to temporarily stop playback.

Inside the CD Door



① The TL3N's stabilizer is heavy, with a diameter of 7cm and weighing 330g. Hold the edge steadily when you place it on or remove it from the turntable. Dropping the stabilizer may damage it and decrease playback accuracy, so handle with care.

② Turntable

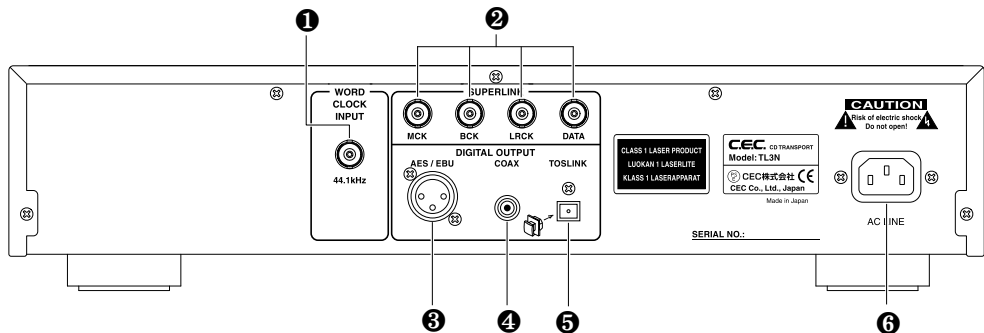
Place a compact disc on the

turntable, and place the stabilizer on top of the disc. The stabilizer can be left on the turntable when not in use, even when no disc is in place.

③ Optical Laser Pickup

The optical laser pickup reads signals from the compact disc. To keep it clean never touch the pickup with your fingers, etc.

Rear Panel Functions



❶ Word Clock Input

44.1kHz word clock input jack with a BNC type connector. Connect to an external clock generator using a BNC (75Ω) cable. When TL3N works with the external clock the blue LED at the right side of the display panel lights up.

❷ SUPERLINK

CEC's proprietary "SUPERLINK" digital input/output for use with a CEC's compatible D/A converter. There are four BNC type terminals named "MCK", "BCK", "LRCK" and "DATA". Four BNC (75Ω) cables are required.

SUPERLINK works with the first priority even when an external word clock signal is coming in.

❸ AES/EBU

Connect to a digital audio device with a AES/EBU(XLR) input by using a XLR 110Ω cable. (Pinning: 1=GND, 2=Hot, 3=Cold)

❹ COAXIAL

Standard digital (SPDIF) signal output jack with a RCA type connector. Connect to a digital audio device with a coaxial RCA input by using a RCA (75Ω) cable.

❺ TOS LINK (Optical)

Connect to a digital audio device with a TOS LINK Optical Digital input by using an optical cable.

When any optical cable is not connected the cap should be returned to the TOS LINK terminal.

❻ AC LINE

Connect the supplied AC power cord to the AC LINE inlet.

"SUPERLINK" Digital Signal Transmission System

SUPERLINK is CEC's proprietary digital signal transmission system that transports music signals and synchronization(clock) signals with separate cables. The SPDIF(Sony Philips Digital Inter Face) and AES/EBU(Audio Engineering Society/European Broadcasting Union) systems, commonly used in coaxial digital outputs and optical outputs, transmit both the music and clock signals through the same cable, and thus are prone to jitter effects caused by the signals interfering with each other. CEC's SUPERLINK system transmits these signals separately with multiple cables, requiring no encoding/decoding process for data transmission. It minimizes deterioration of the music signal during transmission by using the clock signals from the D/A converter's master clock generator to achieve complete synchronization. Each transmission path delivers/receives the following signals.

MCK(Master Clock): The CD transport receives the master clock signal from the D/A converter through this line, and functions as a slave to the DA converter, enabling completely synchronized transportation of audio data.

BCK(Bit Clock): Sends bitclock signals, required for digital data bit identification(e.g. sampling frequency) or signal readout, from the CD transport to the D/A converter.

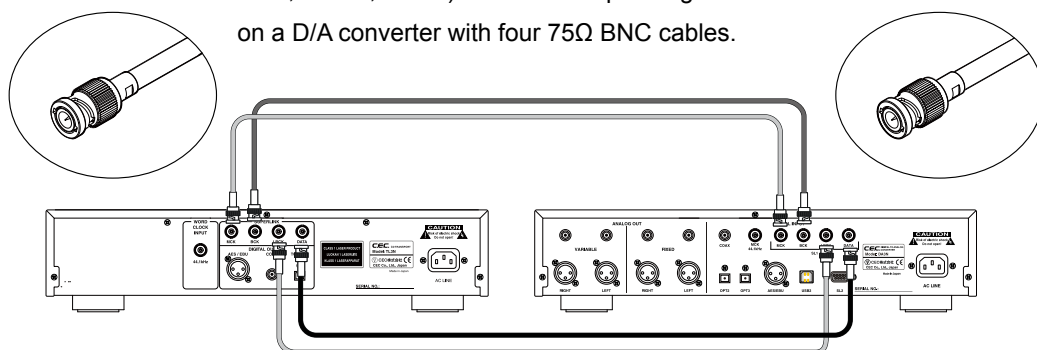
LRCK(L/R Clock): Sends left/right identification clock signals from the CD transport to the D/A converter.

DATA: Sends audio data from the CD transport to the DA converter.

Connection

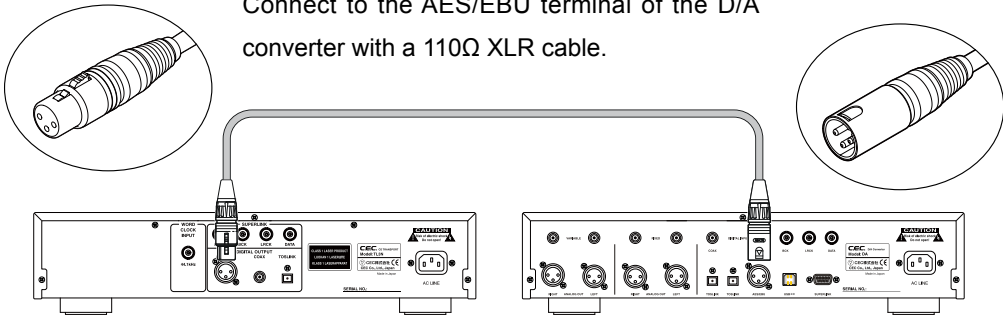
•SUPERLINK Connection

Connect the TL3N's SUPERLINK terminals(MCK, BCK, LRCK, DATA) to the corresponding terminals on a D/A converter with four 75Ω BNC cables.



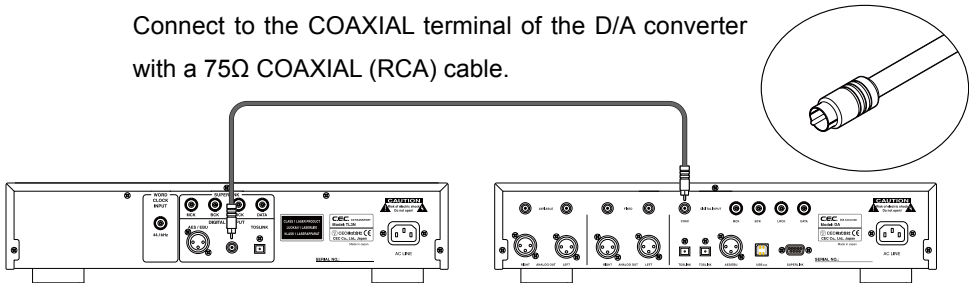
●AES/EBU Connection

Connect to the AES/EBU terminal of the D/A converter with a 110Ω XLR cable.



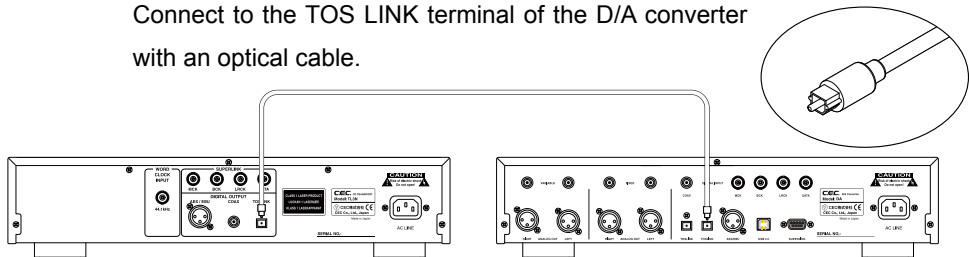
●COAXIAL Connection

Connect to the COAXIAL terminal of the D/A converter with a 75Ω COAXIAL (RCA) cable.



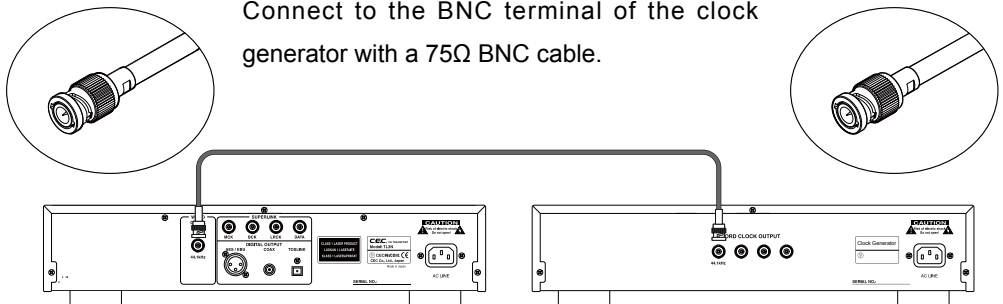
●TOS LINK Connection

Connect to the TOS LINK terminal of the D/A converter with an optical cable.



●WORD CLOCK Connection

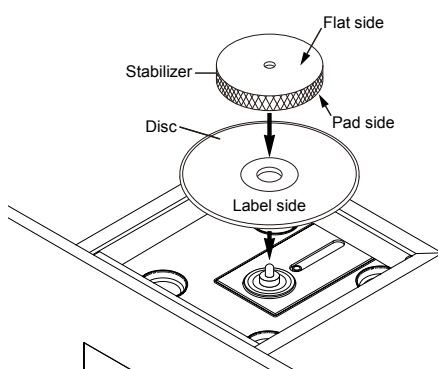
Connect to the BNC terminal of the clock generator with a 75Ω BNC cable.



Playback

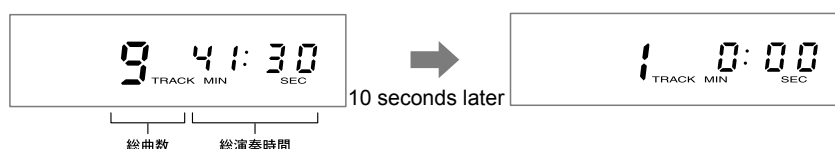
● Normal Playback

- ❶ Press the POWER button to turn the power on.
- ❷ Open the CD door sliding backward by hand. When the door is open the display panel indicates "OPEN".
- ❸ Place a disc on the turntable, and place the supplied stabilizer gently on top of the disc.



NOTE: Make sure you place the disc on the turntable with the label side facing up, and place the stabilizer on the disc before closing the CD door. The TL3N may be unable to read the disc unless you place the stabilizer correctly. Use only the provided CD stabilizer. Do not use commercially available stabilizers.

- ❹ Close the CD door sliding forward by hand. The TL3N should automatically start spinning the disc to read its information, and the total number of tracks and the total playing time should appear on the display. If you leave the TL3N as it is without pressing the PLAY/PAUSE ►/|| button, the display will change after approximately 10 seconds to show information for the first track on the disc.



- ❺ Press the PLAY/PAUSE ►/|| button to start playback. The playback ► indicator and track number should be shown on the display, followed by the elapsed time for the track being played.



● Skipping Track

Press the Skip forward ►► or backward ◀◀ button to jump to the next or previous track from the track being played (or displayed).

Note: Pressing the skip backward ◀◀ button during playback, playback will return to the beginning of the track being played. Press the backward ◀◀

button twice repeatedly to jump to the previous track.

● Pausing Playback

Press the PLAY/PAUSE ►/|| button to stop playback temporarily. Press this button again to resume playback.

● Stopping Playback

Press the STOP ■ button to stop playback.



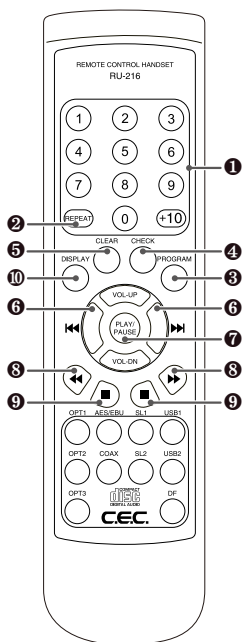
NOTE: Playback will be stopped automatically if you open the CD door without pressing this button, but it will take a few seconds for the turntable to stop spinning. Do not touch the stabilizer or the disc until they stop completely. Touching the stabilizer or disc while they are still turning may damage or cause the unit to malfunction.

● Removing a Disc

Slide the CD Door open with your hand, and remove the stabilizer first by holding its edge. Then remove the disc, replace the stabilizer on the turntable and slide the CD Door closed with your hand.

NOTE: Do not leave discs on the turntable when the TL3N is not in use. The stabilizer can be kept on the turntable when unused.

Remote Control Unit




● Key Functions

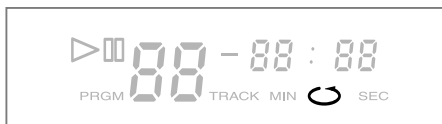
① to ⑩ buttons can be used for TL3N and the other buttons for D/A converter model DA3N.

① Numeric Keys

Use these keys to select tracks directly during playback, or when entering a programmed playback order. To select ex.24-track press +10 twice and then 4.

② REPEAT Button

Press this button to repeatedly playback all the tracks on a disc. When repeat mode is on, the display will show the repeat  indicator. Press this button again to cancel repeat mode.



③ PROGRAM Button

Press this button to enable programmed playback. You can program up to 32 tracks to playback in the order of your choice.

*Refer to "PROGRAMMED PLAYBACK" on page 18 for details.

④ CHECK Button

Press this button to check the order of the tracks in your current programmed setting. *Refer to "PROGRAMMED PLAYBACK" on page 18 for details.

⑤ CLEAR Button

Press this button to clear your current programmed setting. *Refer to "PROGRAMMED PLAYBACK" on page 18 for details.

⑥ Track Skip Backward ◀◀ / Track Skip Forward ▶▶ Buttons

Jump to the previous or next track from the track being played (or displayed).

⑦ PLAY/PAUSE ▶/|| Button

Press this button to start playback or to pause playback temporarily.

⑧ Search Backward ◀◀ / Search Forward ▶▶ Buttons

Press and hold these buttons to quickly search through the track being played. ◀◀ searches through the track backwards, ▶▶ searches forwards.

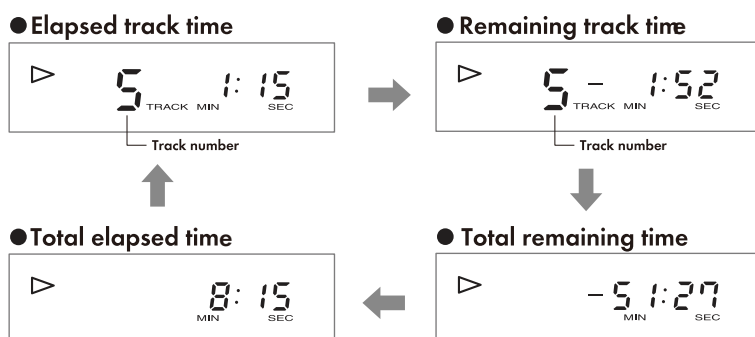
NOTE: There are no Search buttons on the front panel of the TL3N.

⑨ Stop ■ Button

Press this button to stop playback.

⑩ DISP (Display) Button

Press this button to cycle the TL3N's display through its various modes. Each press of the DISP button cycles the display in the following order: track number/elapsed track time (default display) → track number/remaining track time → total remaining time → total elapsed time → back to track number/elapsed track time (default display).



NOTE: Total remaining time and total elapsed time will not be displayed when program mode and/or repeat mode are active.

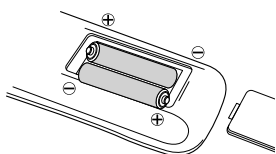
● Precautions on Using the Remote Control Unit

① When operating the remote control, point it towards the remote sensor on the TL3N's front panel. Make sure nothing is blocking the front panel where the remote sensor is located.

❷ Avoid exposing the remote sensor on the front panel to direct sunlight or other light sources, as such exposure can cause malfunction.

❸ The remote control unit may malfunction when its batteries are running low. Change the batteries to new ones of the same type if this seems to be the case.

● Battery Installation



Remove the cover of the battery compartment. Insert the supplied two AAA batteries into the compartment. Make sure that the batteries are inserted with their positive (+) and negative (-) poles positioned correctly, and put the cover back on.

● Battery Replacement

If the distance at which the remote control unit can be used to operate the TL3N seems to be decreasing, replace both batteries with new ones.

● Battery Precautions

❶ Never use different types of batteries together. Both rechargeable and non-rechargeable batteries can be used, but the two should not be used together.

❷ If you will not be using the remote control unit for an extended period of time (more than a month), remove the batteries to prevent leakage.

❸ If the batteries leak, use a cloth to wipe away the liquid inside the battery compartment and replace the batteries with new ones.

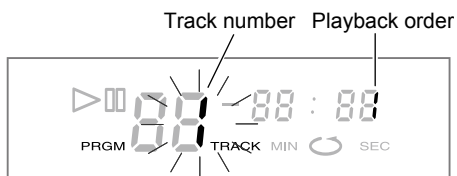
❹ Do not heat or disassemble batteries, and never dispose of old batteries by throwing them in a fire. Dispose of batteries following laws in the local area

Programmed Playback

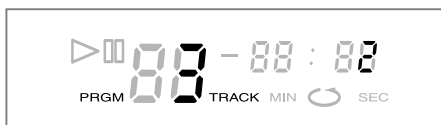
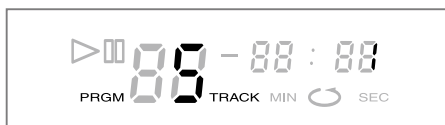
● Programming

You can program up to 32 tracks in a customized playback order, by using the remote control unit while playback is stopped.

❶ Press the PROGRAM button on the remote control unit to activate the program mode. "PRGM" is displayed, and "1" as temporary track number blinks and "1" as the first playback order is displayed.



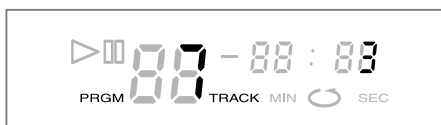
② Select a track number by pressing the numeric keys on the remote control unit. The selected track will be added to the program. For example: Press key-5 to add the 5th track to the 1st playback order, then press key-3 to add the 3rd track to the 2nd playback order. Repeat this process to program additional tracks.



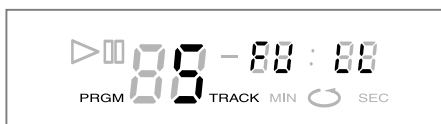
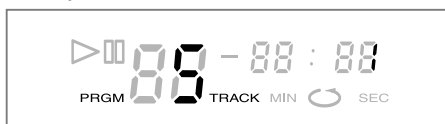
Note:

※ In case that a number beyond the last track number on a disc is selected the last track may be added alternatively.

※ After the 1st playback track is added you can select an addition track by pressing skip buttons as well. The selected track number blinks. Then press the PROGRAM button to add the track to the program. In this way press the PROG. button to add the track every after blinking a track number by pressing skip buttons.

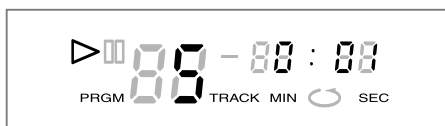


③ Press the STOP button to complete the programming phase. The 1st playback track number is displayed. If 32 tracks are programmed "FULL" is displayed as well.



● Playback in Program Mode

Press the PLAY/PAUSE ►/|| button while the "PRGM" indicator is shown on the display to play the programmed tracks.



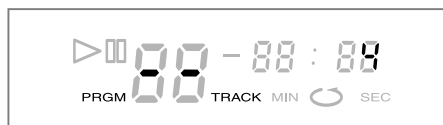
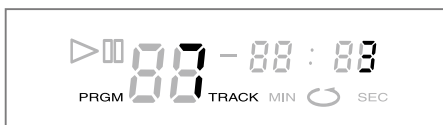
NOTE: To return to the normal playback mode, press the PROGRAM button while playback is stopped. The "PRGM" indicator will disappear from the display. *To return to the program mode, press the PROGRAM button again.

● Checking, Adding, Changing and Clearing Programmed Tracks

You can check, add, change and clear the programmed tracks under the program mode while playback is stopped.

❶ Check the Playback Order for the Programmed Tracks

Press the CHECK button repeatedly to show the playback order for the programmed tracks. The display changes to “- -” when you reach the next to the last track in the program.



Pressing the CHECK button again here will display the first track in the playback order.

NOTE: If you press the STOP ■ button, the display will jump back to the first track in the programmed order.

❷ Adding Tracks to the Program

To add one track to the current program, press the STOP button and select the track number with the numeric keys. The new track will be added to the end of the current playback order. Repeat this process to add more tracks to the program. Press the STOP ■ button to complete the track-adding phase.

❸ Changing Tracks in the Program

To change one track in your programmed playback order, press the CHECK button repeatedly until the track number in question is displayed, then select a new track number. The new track will overwrite the existing track. Repeat this process to change more tracks. Press the STOP ■ button to finish the track-changing phase.

❹ Clearing Programmed Tracks

All tracks: To clear the entire program, hold down the CLEAR button for more than 2 seconds.

One track: To clear one track from the program, press the CHECK button repeatedly until the track number in question is displayed, then press the CLEAR button. Repeat this step (CHECK then CLEAR) to remove more tracks from the program.

※ The entire program will be cleared automatically when you open the CD Door or turn the power off.

Tips and Hints

❶ Should you ever open the CD Door without pressing the STOP button, do not touch the stabilizer and the disc until the turntable has stopped spinning completely. Touching them while they are still spinning may cause stress on the spinning mechanism and lead to malfunction.

❷ The supplied stabilizer is very heavy and should be handled with care. Dropping it on the floor etc. by accident may cause reading errors. The stabilizer is a fragile and expensive part, and should be handled with care.

❸ SUPERLINK Mode

When using SUPERLINK mode, the TL3N uses the clock signals from the D/A converter. If, during playback, you switch the input selector on the D/A converter to or from the SUPERLINK input, this will also switch the clock signal source, and cause the TL3N to stop the playback. Press the PLAY/PAUSE ►/⏸ button again to resume playback. We recommend switching the input on the D/A converter before starting playback.

❹ Belt and Spindle Replacement

The TL3N uses a belt drive mechanism. The belt will gradually deteriorate over time. Possible symptoms resulting from this are; failure to read TOC, sound skipping, etc. You will need to have the belt replaced in such cases. We recommend replacing the belt at least once every 5 years. Likewise, the spindle will also gradually deteriorate over time. We recommend an overhaul at least once every 8 years. Please contact your dealer or an authorized CEC service center.

❺ To prevent vibrations from the surroundings and maximize the sound quality and performance, this unit should be set on an audio rack or a firm board.

Maintenance

- If the surface of the TL3N case becomes soiled, wipe with a soft cloth or use diluted neutral cleaning liquid. Be sure to remove any fluid completely. Do not use thinner, benzene, alcohol, chemical cloths or bleaching agents as these may damage the surface of the TL3N case. Also avoid using aerosol insecticides near the unit.
- If dust accumulates on the turntable, remove it with stick tape (e.g. Scotch tape). Make sure not to touch the optical pickup lens with your fingers.
- TL3N requires no periodic maintenance except the belt and spindle replacement mentioned above, and contains no user-serviceable parts. Contact your dealer or an authorized CEC service center for inspection and repairs in case of malfunction.

Troubleshooting

If you suspect a malfunction in the unit, please check the following chart before calling your dealer.

● No power

- ➡ Check the connection at the both ends of the AC power cord.
- ➡ Make sure there is power at the wall outlet.
- ➡ Turning the power on/off repeatedly may cause this. Wait for 5 seconds before turning the power on again.

● No playback

- ➡ Check that the disc is placed with its label facing up.
- ➡ Check that the CD door is closed completely.
- ➡ If the disc is soiled, clean the surface of the disc.

● No sound

- ➡ Check the connection to the D/A converter.
- ➡ Check the position of the input selector on the amplifier.

● Sound skipping

- ➡ Place the player on a stable rack to prevent the effects of vibration.
- ➡ If the disc is soiled, clean the surface of the disc.
- ➡ Do not use scratched, damaged or warped discs.

● Interference on the tuner

- ➡ The tuner is too close to the TL3N. Install the TL3N away from it or turn off the tuner's power.

● Unresponsive to remote control

- ➡ Point the remote control towards the remote sensor on the front panel.
- ➡ Remove any objects blocking the sensor.
- ➡ Use the remote control unit at a shorter distance from the TL3N.
- ➡ Replace the batteries in the remote control unit with new ones.

Specifications

Playable Discs	Audio CDs and finalized Audio CD-R/RWs
Spindle Drive System	Belt-Drive
Pickup Drive System	Belt-Drive
CD Stabilizer	Diameter 70mm, Weight 330g (Brass)
Digital Output	Superlink x 1(BNC x 4): 2.5Vp-p/75Ω
	AES/EBU x 1(Hot=2): 2.5Vp-p/110Ω
	COAXIAL x 1: 0.5Vp-p/75Ω
	TOS x 1: -21 ~ -15dBm EIAJ
Word Clock Input	BNC x 1: 44.1kHz
Power Supply	AC120/230V, 50/60Hz (Specified on rear panel)
Power Consumption	7W
Dimensions	approx. 435(W) x 320(D) x 109(H) mm (incl. leg, knob & terminal)
Weight	approx. 11kg
Accessories	CD Stabilizer, AC Power Cord, Remote Control Unit, Two AAA type Batteries, Owner's Manual
Color	Silver / Black (limited version only)

NOTES:

- TL3N contains a microcomputer that can malfunction due to the external noise or interference. If this seems to be the case, turn the unit off and wait for a short while before turning it back on and trying again.
- Design and specifications are subject to change without notice.



CEC Co., Ltd., Japan
