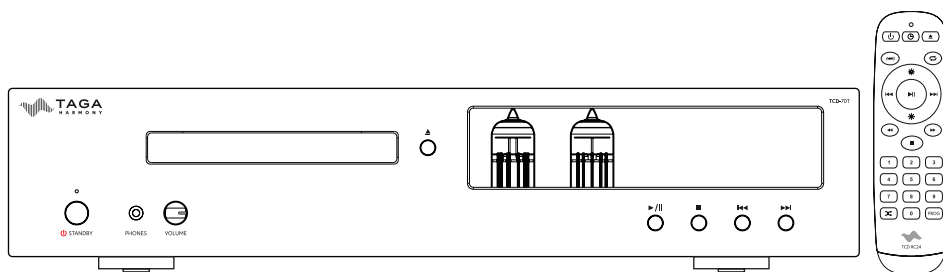




TAGA
H A R M O N Y

TCD-70T

VACUUM TUBE CD PLAYER



Instruction Manual

Introduction

Thank you for purchasing this TAGA Harmony CD player.

The new vacuum tube CD player embodies a perfect fusion of classic vacuum tube warmth and cutting-edge technology, delivering an unparalleled listening experience.

This innovative player has been meticulously engineered for audiophiles seeking premium sound quality and versatility in their audio setup.

KEY FEATURES:

Aluminum Faceplate: slick design visually matching different components and rooms.

Vacuum Tube Stage (2x 6N2 tubes in ceramic sockets) for RCA Output: immerse yourself in the rich, warm tones produced by the vacuum tube stage, delivering pristine audio through the RCA output. Experience a depth and richness in your music that only vacuum tubes can provide.

High-Quality Digital-to-Analog Converter: critically acclaimed ESS SABRE ES9018 Reference 32-bit DAC with Hyperstream™ II architecture and Time Domain Jitter Eliminator, ensuring a faithful conversion of digital signals into analog sound. Enjoy unparalleled clarity, dynamics, and detail in your music.

100W Toroidal Power Transformer: provides clean and efficient power delivery for pristine sound reproduction.

Sunplus SPHE8104G Servo IC and Intelligent Correction: precision-engineered to optimize CD reading accuracy and stability, the ensures smooth and reliable playback, minimizing errors for impeccable sound reproduction.

Buffer Memory: ensuring smoother and more consistent playback.

Bessel Filter: 2-pole fully differential linear phase filter to maintain phase linearity and minimizing distortion for precise and accurate sound reproduction across the entire frequency spectrum.

Versatile Connectivity: wide range of analog and digital outputs, the TCD-70T seamlessly integrates into any audio system, providing flexibility and convenience.

2 analog outputs: including **balanced XLR**, which helps in canceling out electromagnetic interference and noise, resulting in cleaner audio signals.

2 digital outputs: optical and coaxial outputs.

Headphone output: for discrete listening. Featuring volume regulation.

RCA outputs utilize solid high-end, gold-plated machined brass sockets.

Copper Wiring for RCA/XLR Outputs: oxygen free copper wiring for all RCA and XLR sockets to enhance the sound quality.

Fully-Functional Remote Controller: controls all features of the CD player.

Introduction

An IEC C14 power inlet and a removable Schuko-IEC C13 power cord give an option to upgrade to a premium audiophile power cable at any time.

The TCD-70T combines the best of both classic and modern technologies to deliver an unmatched listening experience.

Enjoy the musical journey and rediscover your favorite tracks with newfound clarity and depth.

Cleaning

Do not use strong or abrasive cleaners. Use a damp, soft cloth for cleaning.

Specifications and the latest instruction manual edition

Full technical specifications and the latest edition of the instruction manual are available on www.TagaHarmony.com

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Safety Instructions

IMPORTANT READ THIS SECTION CAREFULLY BEFORE PROCEEDING!



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The triangle containing a lightning symbol is intended to alert the user to the presence of uninsulated dangerous voltages within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



An exclamation mark in a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



Class 1 Laser Product

- This unit utilizes a laser. Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
- Before moving the unit, ensure the disc tray is empty.
- Always remove the disc when the unit is not in use.
- Failure to do so will risk severely damaging the disc and the unit.
- Do not stack devices, heat from other devices may affect the performance of the unit.

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

CAUTION: TO PREVENT ELECTRIC SHOCK, FULLY AND SECURELY INSERT THE POWER CABLE PLUG INTO THE POWER OUTLET, AND POWER CABLE CONNECTOR INTO THE UNIT SOCKET (IF THIS UNIT IS NOT EQUIPPED WITH AN INTEGRATED [ATTACHED] POWER CORD).

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE THE FUSE (IF THE UNIT IS EQUIPPED WITH A USER REPLACEABLE FUSE) ONLY WITH THE SAME AMPERAGE AND VOLTAGE TYPE. IN CASE WHEN THE UNIT IS NOT EQUIPPED WITH A USER REPLACEABLE FUSE - REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL.

WARNING: THE UNIT MAY BECOME HOT. ALWAYS PROVIDE ADEQUATE VENTILATION TO ALLOW FOR COOLING. DO NOT PLACE THE UNIT NEAR A HEAT SOURCE, OR IN SPACES THAT CAN RESTRICT VENTILATION.

Safety Instructions

1. Read Instructions - All the safety and operating instructions should be read before the product is operated.
2. Retain Instructions - The safety and operating instructions should be retained for future reference.
3. Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
4. Follow Instructions - All operating and use instructions should be followed.
5. Cleaning - Unplug this product from the power outlet before cleaning. Do not use liquid cleaners or aerosol cleaners.
6. Water and Moisture - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink or laundry tub; in a wet basement; or near a swimming pool; and the like. These precautions also apply to the power cord.
7. Accessories - Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow manufacturer's instructions and should use a mounting accessory recommended by the manufacturer.
8. Ventilation - This unit may be equipped with slots and openings in the cabinet (housing) which are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should be not placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. For products equipped with a separate power supply unit, leave at least 5cm (2in.) of free space on all sides and the top of the power supply.
9. Power Sources - This product should be operated only from the type of power source indicated on the marking label (placed on the product and/or, if applicable, on a separate power supply unit). If you are not sure of the type of power supply in your home, consult your product dealer or local power company. For products intended to operate from battery power or other sources, refer to the operating instructions.
10. Grounding and Polarity - some units for proper operation or to take full advantage of their capabilities may require to be connected to a grounded power outlet - refer to the user manual for more information.
Some units may have markings for the live (L) and neutral (N) conductors for power - in order to take full advantage of capabilities of such products, it is recommended to properly connect the polarity according to the markings on the unit - refer to the user manual for more information. Connecting the polarity not in accordance with the markings will not affect the durability and reliability of the device.
11. Power-cord Protection - Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles and the point where they exit from the product.
12. Lighting - For added protection for this product during a lighting storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or system cables. This will prevent damage to the product due to lighting and power-line surges.
13. Overloading - Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.
14. Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with water, such as vases are placed on the apparatus.
15. Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
16. Damage Requiring Service - Unplug this product from wall outlet and refer servicing to qualified personnel under the following conditions:
 - when power supply cord or plug is damaged;
 - if liquid has been spilled or objects have fallen into the product;
 - if the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will require extensive work by a qualified technician to restore the product to its normal operation;
 - if the product has been dropped or damaged in any way;
 - if the product exhibits a distinct change in performance - this indicates a need for a service.
17. Replacement Parts - when replacement parts are required, be sure the technician has used replacement parts specified by the manufacturer or with the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
18. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety check to determine that the products is in proper operating condition.
19. Wall of ceiling mounting - The product should be mounted to a wall or ceiling only as recommended by the manufacturer.
20. Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.
21. [Refers to products equipped with vacuum tubes] Tube Cage or cover - For your safety and to protect the vacuum tubes this product may be equipped with the factory installed vacuum tube cage or cover.
It is not recommended to remove the cage or cover unless it is required to change the vacuum tubes.
When the cage or cover is removed - do not touch the vacuum tubes - they may be hot and burn the skin!
22. Operating Environment - Operating environment temperature and humidity of the unit: +5°C to +35°C (+41°F to +95°F); less than 85% RH (cooling slots not blocked).

PACKAGING WARNING

The packaging may contain elements such as plastic, that **should be kept away from small children.**

The thin foil or small elements can stick to the nose and mouth, or may be swallowed and prevent breathing.



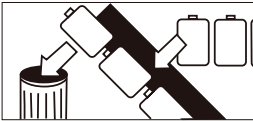
Batteries- Safety Instructions

IMPORTANT

READ THIS SECTION CAREFULLY BEFORE PROCEEDING!



Make sure to insert the battery aligning the correct polarity - the positive and negative ends should be facing in the correct direction as marked on equipment.
Incorrect fitting may cause leakage or, in extreme cases, fire or even an explosion.



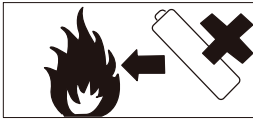
Always replace the whole set of batteries at one time, taking care not to mix old and new batteries or batteries of different types, since this may result in leakage or, in extreme cases, fire or even an explosion.



Store unused batteries in their packaging and away from metal objects which may cause a short-circuit resulting in leakage or, in extreme cases, fire or even an explosion.



Remove dead batteries from equipment and all batteries from equipment when you know you are not going to use for a long time. Otherwise the batteries may leak and cause damage.



Never dispose of batteries in fire as this can cause them to explode. Please recycle dead batteries; do not put with the normal household waste.



Never attempt to recharge ordinary batteries, either in a charger or by applying heat to them. They may leak, cause fire or even explode. There are special rechargeable batteries which are clearly marked as such.



Supervise children if they are replacing batteries by themselves in order to ensure these safety instructions are followed.

Batteries- Safety Instructions



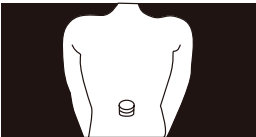
Remember that small button cell batteries such as used in some hearing aids, toys, games and other appliances, may be easily swallowed by young children and this is dangerous.



Keep loose button cells away from young children.



Make sure appliance battery compartments are securely closed.



Seek medical assistance if you believe a battery has been swallowed.

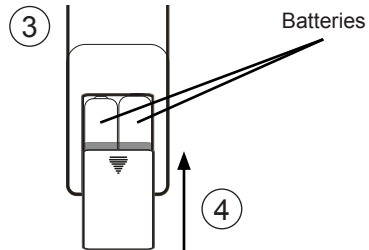
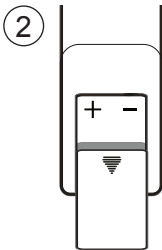
Remote Controller



- Always use AAA batteries and do not use the rechargeable batteries.
- If the batteries run out, remove the old batteries and replace them with new ones within several minutes.
- If the batteries are placed incorrectly, they can cause explosion.
- Remove the batteries if the remote controller is not used for a long period of time.
- Do not handle and store the batteries together with metallic tools.
- KEEP AWAY FROM CHILDREN!

Battery Installation

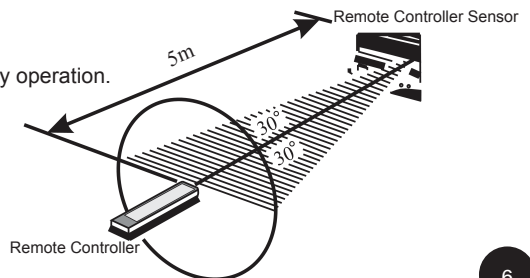
1. Prepare two AAA batteries (not provided with this product).
2. Remove the rear battery cover by sliding it downwards.
3. Insert the batteries into the battery compartment. Carefully follow the polarity diagram inside the battery compartment (positive + and negative - symbols).
4. Reinstall the rear cover.



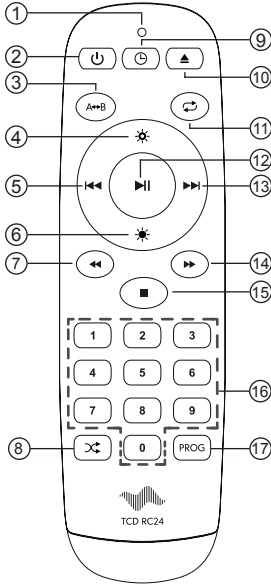
Operating range

Use the remote controller by aiming it at the remote controller sensor. The remote controller can operate in the maximum range of 5 meters away from the CD Player and within 30 degrees from the axis of the controller sensor.

Note! Exposing the remote controller sensor to direct sunlight or strong light may cause faulty operation.

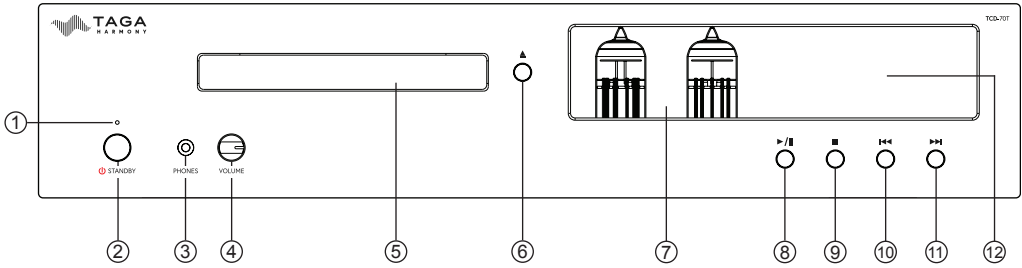


Remote Controller



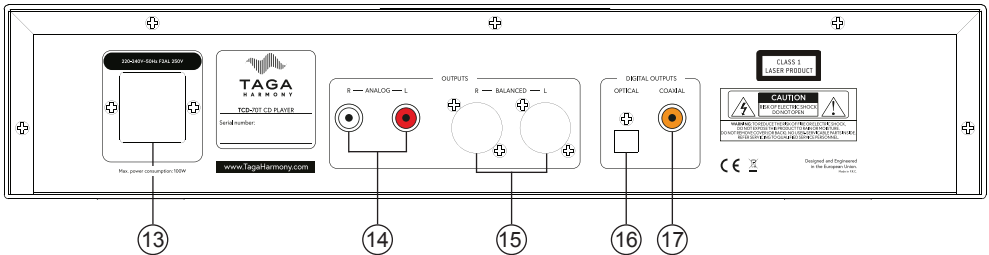
1. Signal LED Indicator
The Indicator flashes after each button is pressed indicating that the remote controller is transmitting the signal.
2. Standby Button (⏻)
3. Repeat A-B Function Button (A↔B)
4. Brightness Higher (☀)
5. Previous Button (⏮)
6. Brightness Lower (☾)
7. Search Backward Button (⏪)
8. Random (Shuffle) Play Function Button (🎲)
9. Time Function Button (⌚)
10. Open/Close Button (⏶)
11. Repeat Play Function Button (↺)
12. Play/Pause Button (⏯)
13. Next Button (⏭)
14. Search Forward Button (⏩)
15. Stop Button (■)
16. Number Buttons (0-9)
17. Program Function Button (**PROG**)

Front and Rear Panel



Front Panel:

1. Standby LED Indicator
2. Standby Button
3. Headphone 3.5 mm (1/8") Output
4. Headphone Output Volume Regulator Knob
5. Disc Tray
6. Open/Close Button
7. Vacuum Tube Window
8. Play/Pause Button
9. Stop Button
10. Previous Button
11. Next Button
12. Display



Rear Panel:

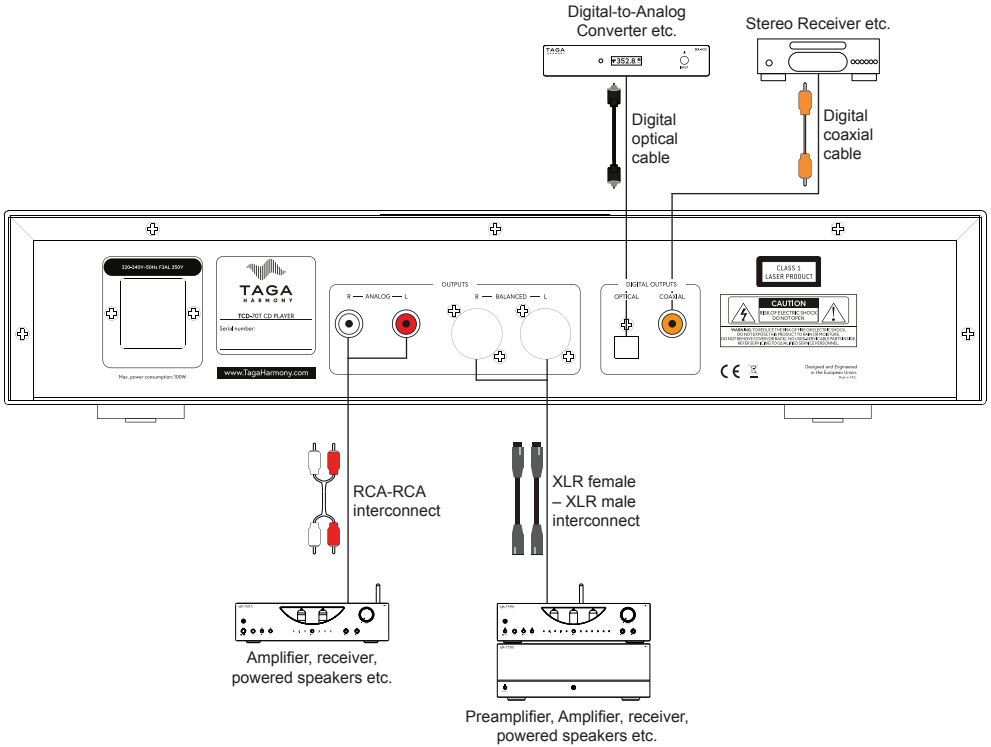
13. Power Cable Input and Fuse Box



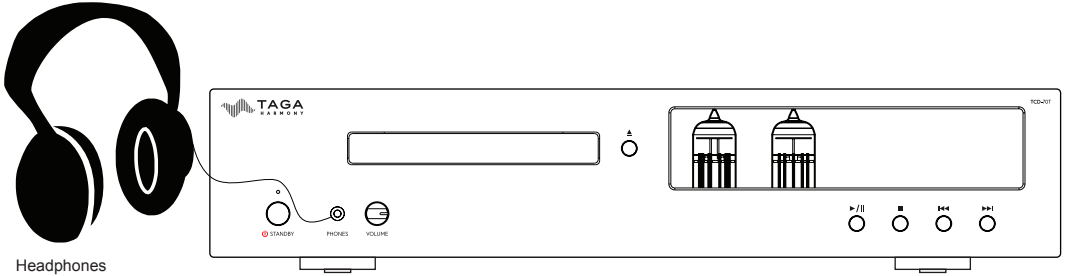
A blown fuse should be only exchanged for exactly the same type as indicated on the rear panel.
The Power Cable should be disconnected!

14. Analog Stereo RCA output (vacuum tube output)
15. Analog Balanced Stereo XLR output
16. Digital Optical Output
17. Digital Coaxial Output



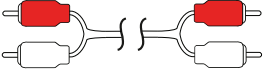

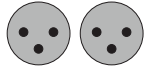



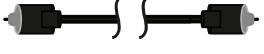


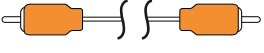
Hooking Up the CD Player



Hooking Up the CD Player



1. Make sure the CD Player is turned off (the Power Cable is disconnected from the electrical outlet).
2. Make sure that external equipment which will be connected to the CD Player is turned off.
3. If you want to listen to music via headphones: connect the headphones to the Phones output.
Check „Headphones connection (PHONES)” for more details.
4. External audio equipment connection options:

Signal	TCD-70T Output	Audio equipment Input	Connection Cable
Analog	R-Analog-L 	RCA sockets 	RCA-RCA interconnect (not supplied) 
	R-Balanced-L (male sockets) 	XLR female sockets 	XLR female - XLR male interconnect (not supplied) 
Digital	OPTICAL 	Optical socket 	Optical cable (not supplied) 
	COAXIAL 	Coaxial socket 	Coaxial cable (not supplied) 

The sockets and ports shown for external equipment and connection options may differ depending on the device.

5. Your CD Player is ready for operation.

Note! Check “Additional Information” for other useful operating instructions.


Operation

Plug the Power Cable to the CD Player and into the electrical outlet.

Switching ON / OFF


When you connect the CD Player to the electrical outlet for the first time, it will be in the Standby mode. The Standby LED Indicator will be illuminated.

ON

- Press the  **Standby** button to switch the CD Player on.
The Standby LED Indicator will switch off.
- If there is no CD disc inserted, the info [NO DISC] will be shown on the display after a while.
- If there is a CD disc inserted, the info about the CD disc [Number of tracks – Total time] will be shown on the display after a while.

Note! This CD Player reads only CD-Audio discs. Other formats are not supported.
Playable media: CD, CD-R, CD-RW. Non-finalized discs cannot be played.
CD-Audio discs exceeding capacity of 74 minutes may not be played correctly (especially last tracks).

OFF

- Press the  **Standby** button to switch the CD Player off.
The Standby LED Indicator will be illuminated.
- The Display will be switched off.



Some internal circuits of the device are powered even in the standby mode.
When you plan leaving home or going away for longer disconnect the power cable from the device.



Automatic Standby Mode

To save energy, the CD Player will automatically switch to the Standby mode if no CD is played for approximately 20 minutes.

BRIGHTNESS regulation

The BRIGHTNESS function is used to change the brightness of the Display, and to turn off the Vacuum Tube Window backlight and the Display.

The function is controlled by the  /  buttons.

Press the  button repeatedly to increase the brightness, the  button to lower the brightness.

Operation

CD Discs Playing

1. Press the **▲** button to open the disc tray and place the CD disc on it (with the printed side up).
Note! If the disc tray is not closed manually within approximately 60 seconds, it will close automatically.
2. Press the **▲** button to close the disc tray, after the CD disc is read correctly, info about the disc [Number of tracks – Total time] will be shown on the Display.
Note! When the disc tray is open, please press the **▶||** button to close it and start playing the disc automatically.
3. Press the **▶||** to start playing.
4. Press the **▶||** to temporarily stop the playing - [PAUSE] will be displayed.
Press the button again, it will continue to play.
5. Press the **■** button to stop the disc playing.



Do not place any foreign objects on the disc tray.
Do not push the disc tray in by hand when the CD Player is switched off.
This may damage this device.

Skip to Track

- During playback: press the **◀◀ / ▶▶** buttons once or more to skip to the previous / next track on the disc.
- During stop: press the **◀◀ / ▶▶** buttons to choose the track you want to start playing with. The playback will start automatically after a while.
- During pause: press the **◀◀ / ▶▶** buttons to choose the track you want to start playing with. Press the **▶||** to start playing.

Search

During playback: press and hold the **◀◀ / ▶▶** buttons to search for the position that you intend to continue playing.
Release to resume normal play.

Repeat A-B

This function allows to constantly play the content between two selected points: A [start] to B [end].

- During playback: press the **A↔B** button to select the start point and press it again to select the end point.
[REP A - B] will be displayed.

Note! You can pause and resume playing using the **▶||** button.

- Press the **A↔B** button again or one of the following buttons (**◀◀ / ▶▶**, **◀◀ / ▶▶**, **■**) to deactivate this function - [REP OFF] will be displayed (except for **◀◀ / ▶▶**).

Note! During pause: pressing the **A↔B** button will resume playing and set the start point (A) from the point where the playback was previously paused.

Operation

Repeat Play

Switching between ALL-track repeat and ONE-track repeat.

The function may be only activated during the playback or pause by using the ↻ button.

- First press: to repeat the current track.
[REP ONE] will be displayed.
- Second press: to repeat all tracks.
[REP ALL] will be displayed.
- Third press or the ■ button: deactivates this function.
[REP OFF] will be displayed.

Note! When a single track is repeated, press the ◀▶ buttons, to skip to the previous / next track on the disc – the selected track will be repeated.

Random (Shuffle) Play

You can play tracks on a CD disc in a random sequence.

The CD player must be in the Play mode with a CD disc inserted.

1. Press the ⌘ button to start the Random Play.
[RAND ON] will be displayed.
Note! Press the ◀▶ buttons to randomly select the next track.
2. Press the button again or the ■ button to clear this function.
[RANDOFF] will be displayed.

Program Play

You can program up to 24 tracks to play in any desired order.

The CD player must be in the Stop mode with a CD disc inserted.

In the Program Mode the Display will show [PRG01:##]:

01 - program memory number.

- programming start: a total number of tracks on the disc.

programming in progress: selected track to store in the program memory.

1. Programming start: press the **PROG** button. [PRG01:##] will be displayed. ## will be flashing.
2. Press the ◀▶ buttons to select a track to be stored in the program memory 01.
3. Press the **PROG** button to store the selected track in the program memory.
4. The program memory number will change to the next one.
5. Repeat steps 2-3 to select and store all desired tracks.
6. To start the program play, press the ▶| button - [PROG ON] will be displayed.
7. To clear the program play, press the ■ button - [PROG OFF] will be displayed.

Note! Skip to Track operation, using the ◀▶ buttons, will work within the programmed memory, until it is cleared.

Note! All functions will be deactivated when you turn off the CD Player or open the disc tray.

Operation

Direct Track Selection

The **0-9** buttons allow to select a specific track on the CD disc.

For instance: to select track number 12, press 1 and then 2 buttons etc.

- During playback: press the **0-9** buttons to start playing from the selected track.
- During stop and pause: press the **0-9** buttons to start playing from the selected track.

The playback will start automatically after a while.

Note! This function may not be active when other CD Player functions are running.


Time Display

Time display switching function.

NO PLAYING (STOPPED): [Total number of tracks on the CD disc - Total CD disc time]

PLAYING or PAUSED

The track number is displayed in the first position.

Each  button press is switching between [Elapsed track time] → [Remaining track time] → [Remaining total CD disc time]

Note! The time displayed on this unit may differ from the actual time, as it is calculated by rounding.

Note! This function may not be active when other CD Player functions are running.

Headphones connection (PHONES)

When headphones are plugged into the headphone output (Phones) the transmission of sound to all outputs is still active.

The volume of the headphones is regulated by the Headphone Output Volume Regulator Knob [from zero: the knob in the max counterclockwise position].



Listening at high volume may cause hearing damage.

Additional Information

Break-In

Your TAGA Harmony CD Player sounds great immediately after it is taken out of the carton but as all devices utilizing tubes, this CD Player requires a “break-in” period to reach its full sonic capabilities.

During the “break-in” period it is recommended to operate the CD Player at moderate volume levels.

The first level of the “break-in” is reached after approximately 10 hours of play.

The optimal level of the “break-in” is reached after approximately 40 to 60 hours of play.

It is recommended to avoid one-time short periods of operation unless the CD Player reaches the first “break-in” level.

When the CD Player is turned on, it should operate for around 2 hours.

Turn off procedure



If the CD Player was turned off even for a short period of time, you should wait at least 2 minutes before turning it back on.
Do not turn it ON then OFF and then ON again in quick succession.

Follow this procedure each time you turn your CD Player OFF / ON.

This precaution will minimize the stress (high voltages) on internal components.

Vacuum tubes - noise floor and interferences

It is a normal phenomenon for an CD Player equipped with vacuum tubes to produce significant amount of noise (called noise floor or self-noise) which can be audible in speakers and headphones (in one or both channels).

Devices equipped with vacuum tubes are more prone to various types of interferences generated by nearby electronic equipment – try to eliminate such a problem by moving this product away from the source of interference or trying to power it from a different power line than other equipment (e.g. from a power outlet in another room).

Vacuum Tube Replacement

The lifetime of vacuum tubes may vary and depends on their operation time and ambient temperature, playback volume levels and the number of on and off cycles.

Replacement vacuum tubes are not supplied with this product.



The warranty time for vacuum tubes is shorter than for other components of this device – for more details check your warrant terms or contact a local dealer.



The vacuum tubes are installed inside the device and should be replaced only by qualified service personnel.

Power transformer – Power filters and conditioners

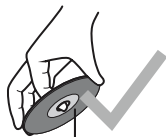
It is a normal phenomenon that the device’s power transformer may generate a certain amount of audible noise.

Very loud operation of the power transformer may be caused by low quality of power supply (voltage surges etc.).

In such a case, we suggest using a power filter or conditioner - you can also try to power this product from a different power line than other devices (e.g. from a power outlet in another room).

Additional Information

Handling of CD discs



Playback side



- Do not touch the playback side of the disc.
- Do not attach paper or tape to the disc.

Cleaning Discs



- Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the centre outwards with a soft cloth. Always keep the disc clean.
- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray. They may damage the disc.

Storing Discs

- Do not store discs in places subjected to direct sunlight or near heat sources.
- Do not store discs in places subjected to moisture and dust such as a bathroom or near a humidifier.
- Storing discs vertically in a case, stacking discs or placing objects on discs outside of their cases may cause warping.

Kit Content

We strongly advise to contact a professional installer or dealer in order to install TAGA Harmony products.

We recommend using high quality TAGA Harmony cables and other installation accessories.

Kit Content:


CD Player	1EA
Power Cable	1EA
Instruction Manual	1EA

Specifications




Vacuum tubes	2 x 6N2 for UNBALANCED (RCA) output Ceramic sockets for tubes
Compatible CD formats	CD-Audio (playable media: CD, CD-R, CD-RW)
DA converter	ESS SABRE ES9018
Analog filter	2-Pole Fully Differential Linear Phase Bessel filter
Digital outputs	Optical, Coaxial [up to 44.1kHz/16bit]
Analog outputs	STEREO: UNBALANCED (RCA), BALANCED (XLR)
Headphone output	Impedance: 32ohm Output power: ≤30mW, 32ohm Variable [0-30mW @32ohm 0-50mW @600ohm]
Frequency response	20Hz - 20kHz (±1dB)
Total Harmonic Distortions	<0.005% (A-Weighted) @1kHz 0DBFS <0.005% (2.0V 1kHz)
Signal / Noise ratio	>110dB (A-Weighted)
Crosstalk	<-100dB @1kHz
AC power / power consumption	220-240V 50Hz Standby <0.5W Operation max 100W
Dimensions (H x W x D)	9.4 x 43 x 32 cm (incl. feet, excl. knobs/sockets)
Weight	5.8 kg / pc.

We reserve the right to change the technical data and the design of the product without notice as a result of further development.

EU declaration of conformity

	<p>Your product is marked with the symbol shown on the left. As its manufacturer, hereby we declare that the product is in compliance with the following EU directives and regulations: 2014/30/EU (EMC) & 2014/35/EU (LVD) & 1275/2008/EC (ErP) & 2015/863/EU (RoHS)</p> <p>The full text of the EU declaration of conformity is available from the manufacturer.</p>
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Disposal of the product

 	<p>Disposal of old electrical & electronic equipment (applicable in the European Union and other countries with separate collection systems)</p> <p>This symbol on the product or on its literature and packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the appropriate collection point for the recycling of electrical and electronic equipment. By ensuring that this product is disposed of correctly, you will help to prevent potential negative consequences for the environment and human health, which could be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local government office, your household waste disposal service or the shop where you purchased the product.</p>
	<p>Disposal of waste batteries (applicable in the European Union and other countries with separate collection systems)</p> <p>This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. On certain batteries this symbol might be used in combination with a chemical symbol. The chemical symbol for lead (Pb) is added if the battery contains more than 0.004 % lead. By ensuring that these batteries are disposed of correctly, you will help to prevent potentially negative consequences for the environment and human health which could be caused by inappropriate waste handling of the battery. The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the appropriate collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the appropriate collection point for the recycling of waste batteries. For more detailed information about recycling of this battery, please contact your local government office, your household waste disposal service or the shop where you purchased the product or battery.</p>

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