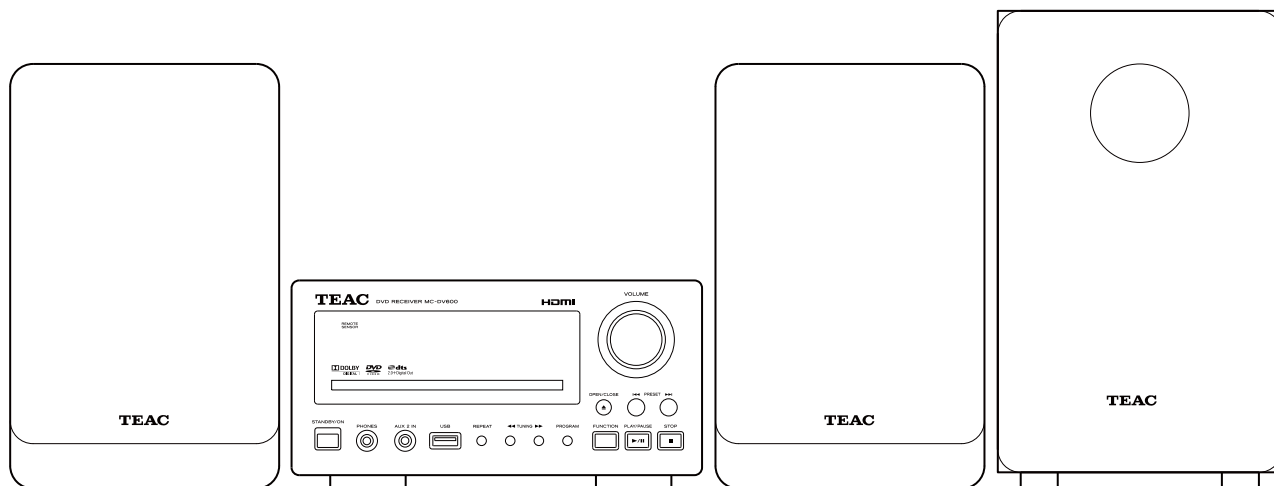


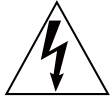
TEAC

MC-DV600

DVD Receiver

OWNER'S MANUAL





CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



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 symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.




The exclamation point within 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.

IMPORTANT SAFETY INSTRUCTIONS

- 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.
- 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.



- 15) Grounding or Polarization – This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
Alternate Warnings – This product is equipped with a three-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug.
- 16) Ventilation – Slots and openings in the cabinet 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 not be 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.
- 17) The MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- 18) Battery pack or battery installed shall not be exposed to excessive heat such as sunshine, fire or the like.
- 19) Manufacture date is located on bottom of product.
- 20)  CLASS II apparatus with double insulation, and no protective earth provided.

- 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 draws nominal non-operating power from the AC outlet with its POWER or STANDBY/ON switch not in the ON position.
- The apparatus should be located close enough to the AC outlet so that you can easily grasp the power cord plug at any time.
- The appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.
- If the product uses batteries (including a battery pack or installed batteries), they should not be exposed to sunshine, fire or excessive heat.
- CAUTION for products that use replaceable lithium batteries: there is danger of explosion if a battery is replaced with an incorrect type of battery. Replace only with the same or equivalent type.
- 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.

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 WITHIN.
- IF YOU ARE EXPERIENCING PROBLEMS WITH THIS PRODUCT, CONTACT TEAC 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.



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This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

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This product is protected by certain intellectual property rights of Microsoft.

Use or distribution of such technology outside of this product is prohibited without a license from Microsoft.

Windows Media is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

For U.S.A.

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:

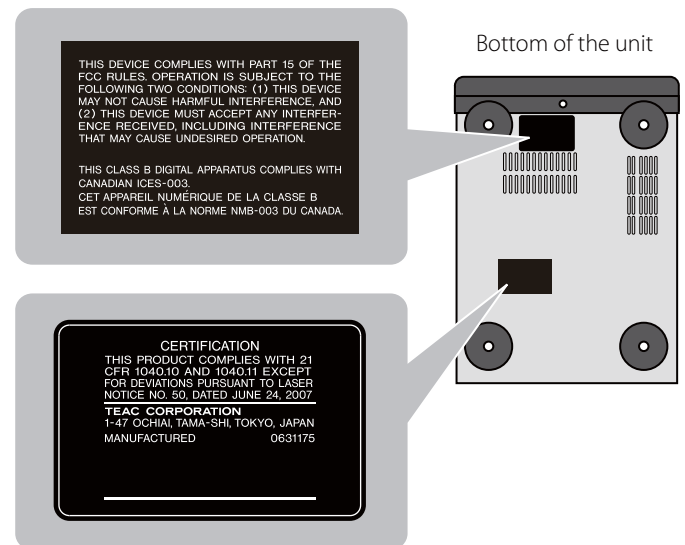
- Reorient or relocate the equipment and/or the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications to this equipment not expressly approved by TEAC CORPORATION for compliance will void the user's warranty.

This product has been designed and manufactured according to FDA regulations "title 21, CFR, chapter 1, subchapter J, based on the Radiation Control for Health and Safety Act of 1968", and is classified as class 1 laser product. There is not hazardous invisible laser radiation during operation because invisible laser radiation emitted inside of this product is completely confined in the protective housings. The label required in this regulation is as follows:

For U.S.A.



Optical pickup

Type : KHS-313A
Manufacturer : Sony Electronics Inc.
Laser output : 7 mW (CD)
5 mW (DVD)
Wavelength : 655 +5, -10 nm / 790+10, -20 nm

Contents

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

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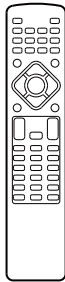
Conventions about this manual

- The types of functions and operations that can be used for a particular disc vary depending on the features of that disc. In some cases, these functions and operations may differ from the descriptions given in this manual. In this event, follow the instructions given on the screen. This manual only covers basic disc operations.
- For some operations, the PROHIBIT icon “⊘” may appear on the screen. This indicates that the operation described in this manual is not permitted for the current disc.

What's in the box

Confirm the supplied standard accessories.

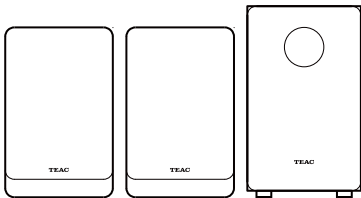
Remote control unit (RC-1271) x 1



Batteries (AAA, R03, UM-4) for remote control unit x 2



Speaker x 2/Subwoofer x 1



RCA video cable x 1



FM antenna x 1



Owner's manual (this document) x 1

- Keep this manual in a safe place for future reference.

Warranty card x 1

Beware of condensation

When the unit is moved from a cold to a warm place, or used after a sudden temperature change, there is a danger of condensation; vapor in the air could condense on the internal mechanism, making correct operation impossible. To prevent this, or if this occurs, leave the unit turned on for one or two hours. Then the unit will stabilize at the temperature of its surroundings.

Placement of the unit

- Choose the installation location of your unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Also avoid locations subject to vibrations and excessive dust, heat, cold or moisture.
- As the unit may become warm during operation, always leave sufficient space around the unit for ventilation. Make sure there is at least 8" (20 cm) of space above and at least 2" (5 cm) of space on each side of the unit. Do not place anything on top of the unit.
- Do not place the unit on an amplifier or receiver or any other device that generates heat.
- When the unit is turned on, switching on the TV may cause lines to appear on the TV screen, depending on the condition of the electric waves of the TV broadcast. This is not malfunction in the unit or the TV. If you see such lines, keep this unit well away from the TV set.

CAUTION

- Do not move the unit during disc playback. During playback, the disc rotates at high speed. Do not lift or move the unit during playback. Doing so may damage the disc or the unit.
- 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.
- Do not open the cabinet as this might result in damage to the circuitry or electrical shock. If a foreign object should get into the unit, contact your dealer or service company.
- When removing the power plug from the wall outlet, always pull directly on the plug, never yank on the cord.
- To keep the laser pickup clean, do not touch it and always close the disc tray.
- Always remove the disc before relocating or moving this unit. Moving the unit with a disc inside it could cause malfunction.

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.

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

- Never spray liquid directly on this unit.
- Do not use thinner or alcohol as they could damage the surface of the unit.

Type of discs that can be played on this unit

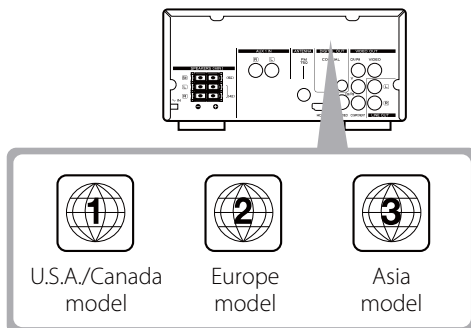
This player can playback discs bearing any of the following logos:

	<p>DVD Video</p> <ul style="list-style-type: none"> • Single-sided or double-sided discs • Single layer or dual layer discs • Dolby Digital, MPEG or Linear PCM digital audio • MPEG-2 digital video • This unit can play DVD-R or DVD-RW discs recorded in DVD video format. <p>Discs are generally divided into one or more titles. Titles may be further subdivided into chapters.</p>
	<p>Audio CD</p> <ul style="list-style-type: none"> • 12cm or 8cm discs • Linear PCM digital audio <p>Audio CDs are divided into tracks.</p>
	<p>Video CD</p> <ul style="list-style-type: none"> • 12cm or 8cm discs • MPEG-1 digital audio • MPEG-1 digital video <p>Video CDs are divided into tracks.</p>
<p>SVCD</p> <ul style="list-style-type: none"> • 12 cm or 8 cm discs • MPEG-1 Audio Layer2 • MPEG-2 digital video 	

Region Number of DVD Video discs

DVD players and discs are designed with region numbers that dictate the regions in which a disc can be played. If the region number on the disc you want to play does not match the region number of your DVD player, you will not be able to play the disc. In that case, an error message will appear on the screen.

The region number is printed on the rear panel of this unit.



About DVD-RW

- DVD-RW discs that were recorded with copy-once only permission cannot be played.
- When playing a DVD-RW disc that was edited on a DVD recorder, the screen may momentarily black out at the edited point.
- When playing a DVD-RW disc that was edited on a DVD recorder, you may see scenes from just before the edited point.

About CD-R/CD-RW

CD-R/CD-RW discs recorded in Audio CD format and finalized correctly are playable. But depending on the quality of the disc and/or the condition of the recording, some CD-R/CD-RW discs may not be playable.

CAUTION

- If you record a disc using a personal computer, even if it is recorded in a compatible format, there are cases in which it may not play because of the settings of the application software used to create the disc. (Check with the software publisher for more detailed information.)
- Unfinalized CD-R/CD-RW/DVD-R/RW discs cannot be played.

Discs cannot be played with this unit

- DVD video recording format, DVD-Audio, Super Audio CD, CD-G, Data part of CD-EXTRA, and PHOTO CD discs
- discs recorded in a color system other than PAL or NTSC
- illegally produced discs
- scratched or damaged discs
- discs that are dusty, soiled or marked with fingerprints

CAUTION

If you attempt to play back such discs, there is a risk that sudden loud noise can blast over the speakers at full volume and cause damage to the speakers and your hearing.

Copy-protected discs, DualDiscs and other discs that do not conform to the CD standard may not play back correctly in this player. If you use such discs in this unit, TEAC Corporation and its subsidiaries cannot be responsible for any consequences or guarantee the quality of reproduction. If you experience problems with such non-standard discs, you should contact the producers of the disc.

Playable file format

This unit can play following files recorded on a CD-R, CD-RW, DVD-R, DVD-RW or USB memory device:

- MP3 files
- Windows Media-formatted audio files
- JPEG files

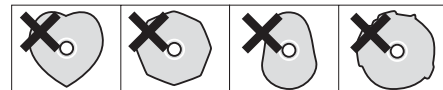
- File names should be alphanumeric characters. This unit cannot display symbols and full-size or double-byte characters (such as Japanese, Chinese, etc.) correctly. Also, be sure to use the file extension. ('.mp3' for MP3 files, '.wma' for WMA files, '.jpg' or '.jpeg' for JPEG files.)
- Files are played in alphabetical order.
- MP3 files must be monaural or stereo MPEG-1 Audio Layer 3 format. This unit can play MP3 files with sampling frequency 44.1 kHz or 48 kHz, bit-rate 320 kbps or less.
- This unit can play WMA files with sampling frequency 44.1 kHz, bit-rate 192 kbps or less.
- This unit cannot display the bit-rate of VBR (variable bit rate) files correctly.
- The disc must be finalized in order to play.
- This player is NOT compatible with multi-session discs.
- The CD-ROM must be ISO 9660 compatible.
- It may take time to display a progressive JPEG picture.
- Depending on the file size and compression rate, some JPEG pictures cannot be displayed correctly.

Example of icons used on DVD discs

	Number of audio tracks recorded on the disc
	Number of subtitles recorded on the disc
	Screen aspect ratio
	Region code

CAUTION

- Do not play any disc that is warped, deformed or damaged. Playing such discs may cause irreparable harm to the playing mechanisms.
- Printable discs are not recommended, as the label side might be sticky and damage the unit.
- Do not stick papers or protective sheets on the discs and do not use any protective coating spray.
- Never use a stabilizer. Using commercially available CD stabilizers with this unit will damage the mechanisms and cause them to malfunction.
- Do not use irregular shape discs (octagonal, heart shaped, business card size, etc.). Discs of this sort can damage the unit:



Handling precautions

- Always place the disc on the disc tray with the label side up. Compact discs can be played or recorded only on one side.
- To remove a disc from its storage case, press down on the center of the case and lift the disc out, holding it carefully by the edges.



How to remove the disc



How to hold the disc

Storage precautions

- Discs should be returned to their cases after use to avoid dust and scratches that could cause the laser pickup to "skip."
- Do not expose discs to direct sunlight or high humidity and temperature for extended periods. Long exposure to high temperatures will warp the disc.
- CD-R and CD-RW discs are more sensitive to the effects of heat and ultraviolet rays than ordinary CDs. It is important that they are not stored in a location where direct sunlight will fall on them, and away from sources of heat such as radiators or heat-generating electrical devices.

Maintenance

- Should the disc become dirty, wipe the surface radially (from the center hole outward towards the outer edge) with a soft, dry cloth.



- Never use such chemicals as record sprays, antistatic sprays or fluid, benzene or thinner to clean the discs. Such chemicals will do irreparable damage to the disc's plastic surface.

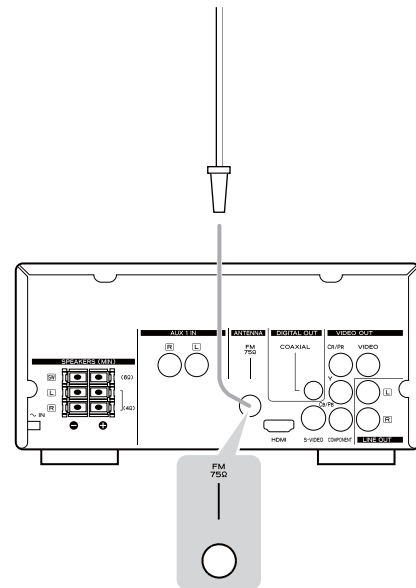
If you are in any doubt as to the care and handling of a disc, read the precautions supplied with the disc, or contact the disc manufacturer.

USB memory device compatibility

- Only USB flash memory can be used. Do NOT use a high-capacity USB hard disc with this unit.
- Some flash memory players that charge from a USB terminal cannot be played back.
- Hard disk drives, CD/DVD drives, and other devices than flash memory connected via USB cannot be used.
- The MC-DV600 cannot copy, move, or delete files.
- Playable format: FAT12, FAT16, FAT32
- NTFS, HFS, HFS+ cannot be used.
- Max. number of playable folders: 300
- Max. number of playable files: 650

Connecting Antennas (FM)

FM indoor antenna

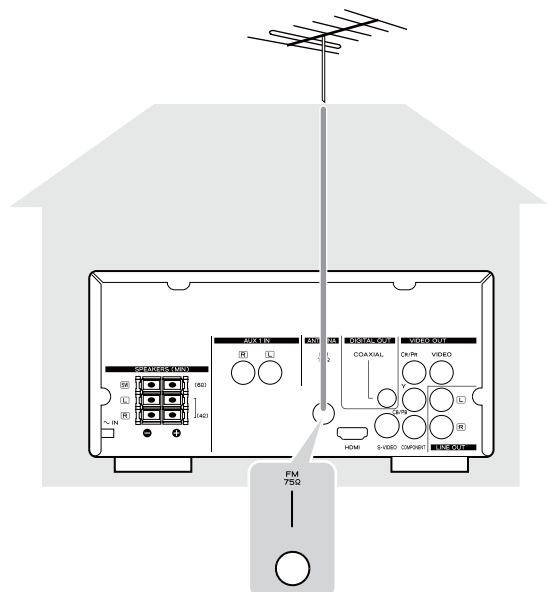


Connect the supplied lead-type FM antenna to the FM 75Ω socket and extend the lead.

Adjust the antenna in a suitable location like a window frame or wall which gives the best reception and then fix the antenna in that position with thumb tacks or the like.

FM outdoor antenna

In an area where FM signals are weak, it will be necessary to use a 75 Ω unbalanced-type outdoor FM antenna. Generally, a 3-element antenna will be sufficient; if you live in an area where the FM signals are particularly weak, it may be necessary to use one with 5 or more elements.

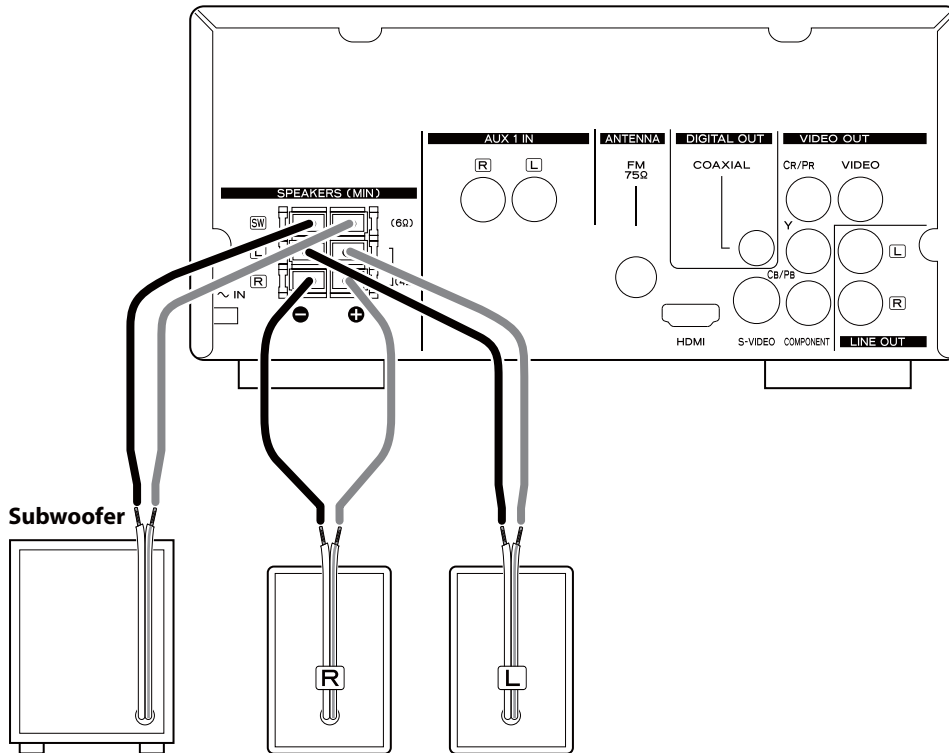


- Disconnect the FM indoor antenna when using an FM outdoor antenna.

Speaker Connection

⚠ After all connections are complete, connect the power cord's plug to the AC wall socket.

- Read the instructions of each component you intend to use with this unit.
- Be sure to connect each plug securely. To prevent hum and noise, do not bundle the connection cords.

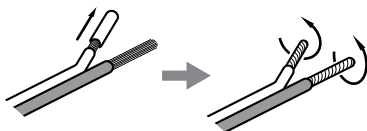


Before connection

Check the impedance of your speakers. Connect speaker with an impedance of $4\ \Omega$ or more.

The black speaker terminals are "⊖" (negative). Generally, the "⊕" side of the speaker cable is marked to make it distinguishable from the "⊖" side of the cable. Connect this marked side to the "⊕" terminal and the unmarked side to the black "⊖" terminal.

Prepare the speaker cables for connection by stripping off approximately $3/8$ " (10 mm) or less of the outer insulation. Twist the strands of the stripped wires tightly together:

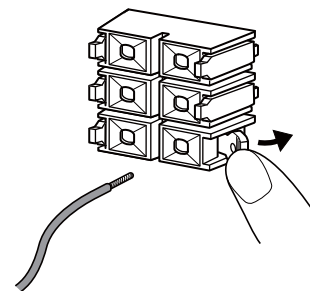


⚠ CAUTION

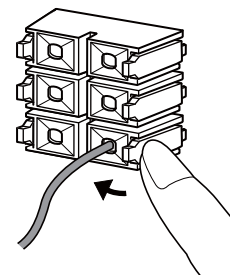
The metal portions of the two separate wires should not touch or an electrical short can occur. Removing too much insulation may lead to a short circuit if the bared wires should come in contact with each other. Shorted wires can create a fire hazard or induce a failure in your equipment.

How to connect

1. Unlock the lever of the speaker terminal to connect the cable.



2. Insert the wire into the terminal fully and lock the lever to securely connect it:



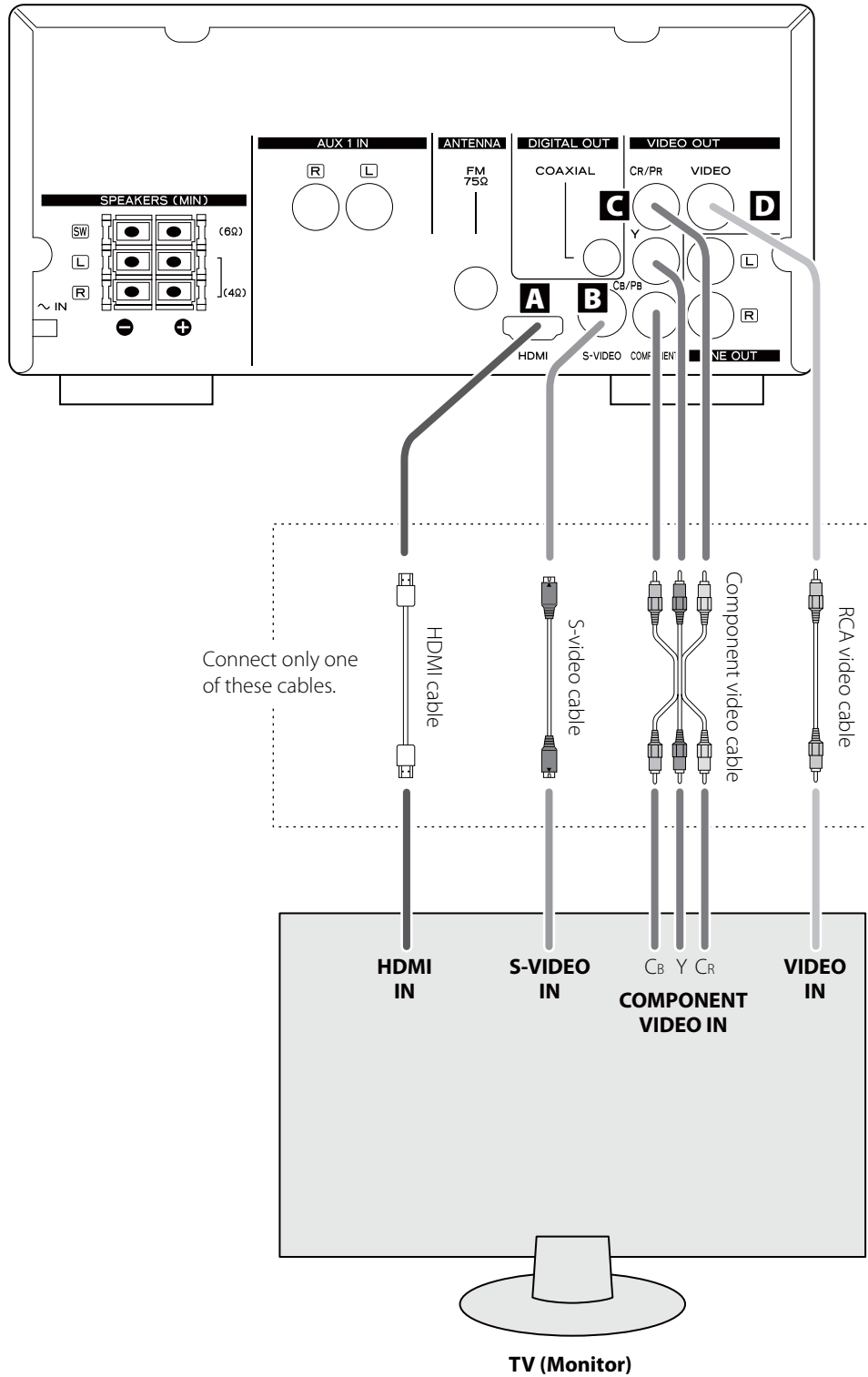
Make sure none of the wire insulation is inserted into the terminal, only the bare, stripped wire.

3. Make sure it is fastened firmly by pulling the cable lightly.

Connection to a TV

⚠ **After all connections are complete, connect the power cord's plug to the AC wall socket.**

- Read the instructions of each component you intend to use with this unit.
- Be sure to connect each plug securely. To prevent hum and noise, do not bundle the connection cords.



- Adjust the video aspect ratio to match that of the TV (page 34).
- This unit adopts analog copy protection features. If the unit is connected to a TV through a VCR (video cassette recorder), the resulting playback may be affected. **Connect the unit directly to the TV.**
- In all cases, use the highest quality cables for the best possible picture.
- Select proper setting in the VIDEO OUTPUT setup (page 36).

A HDMI video/audio output terminal

Use a commercially available HDMI cable to connect the unit to a HDMI compatible TV or monitor.

- If the TV or monitor is equipped only with a DVI terminal, a suitable adaptor cable or adaptors should be used. Note that the TV connected in this way must be HDCP compatible. Also note that this connection outputs no sound.
- Make sure that you read and understand the documentation provided with the HDMI component.

HDMI video output formats

- 480p (NTSC) or 576p (PAL)
- 720p
- 1080i
- 1080p

- See page 37 for further details on HDMI video output formats.

To output audio from the HDMI terminal

If the connected HDMI component is capable of inputting HDMI audio, digital audio can be output from the HDMI terminal.

- Select "ALL" or "PCM only" in the DIGITAL AUDIO SETUP (DIGITAL OUTPUT) (page 35).
- To enjoy the digital surround audio from DVD-Video discs, connect the HDMI terminal to a surround amplifier and set the DIGITAL AUDIO SETUP (DIGITAL OUTPUT) to "ALL" (page 35).

B S-video output terminal

Use a commercially available S-video cable to connect the unit to the S-video input of a suitably equipped TV or monitor. Use this connection in preference to a composite video connection.

C Component video output terminals

Use commercially available component video cables to connect the unit to the component video inputs of a suitably equipped TV or monitor to enjoy a high-quality picture.

Use these terminals in preference to S-video or composite video connections.

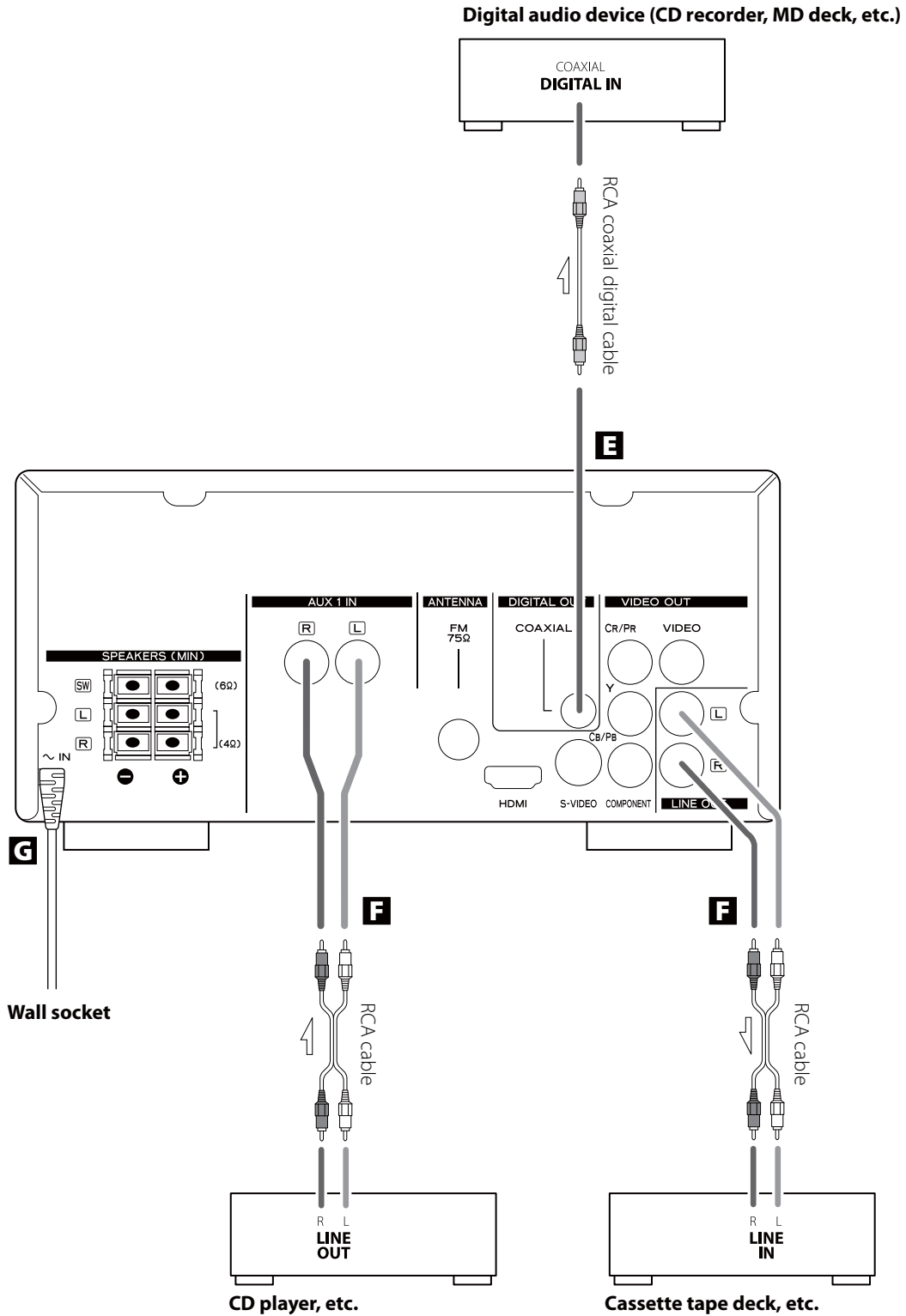
- If the component video terminals are connected to a TV with progressive scan capabilities, the output can be set to match this (page 36).
- Note that these terminals cannot be connected to high definition component terminals.

D Composite video output terminal

Use the supplied RCA (pin) video cable to connect the unit to the composite video connector of a TV or monitor.

Use this connection only if no other video connection method is available.

Connection to Audio Equipments etc.



⚠ After all connections are complete, connect the power cord's plug to the AC wall socket.

- Read the instructions of each component you intend to use with this unit.
- Be sure to connect each plug securely. To prevent hum and noise, do not bundle the connection cords.

E Digital audio output terminal

Digital audio from DVD-Video, CD and video CD is output from this terminal.

Connect an amplifiers including a decoder, or digital audio devices such as CD recorders, etc. to this terminal using commercially-available coaxial digital audio cable (TOS).

- Select "ALL" or "PCM only" in the DIGITAL AUDIO SETUP (DIGITAL OUTPUT) (page 35).

F AUX 1/LINE OUT jacks

Analog 2-channel audio signal is input or output from these jacks. Connect a cassette tape deck etc. to these jacks using commercially-available RCA cables.

Make sure to connect:

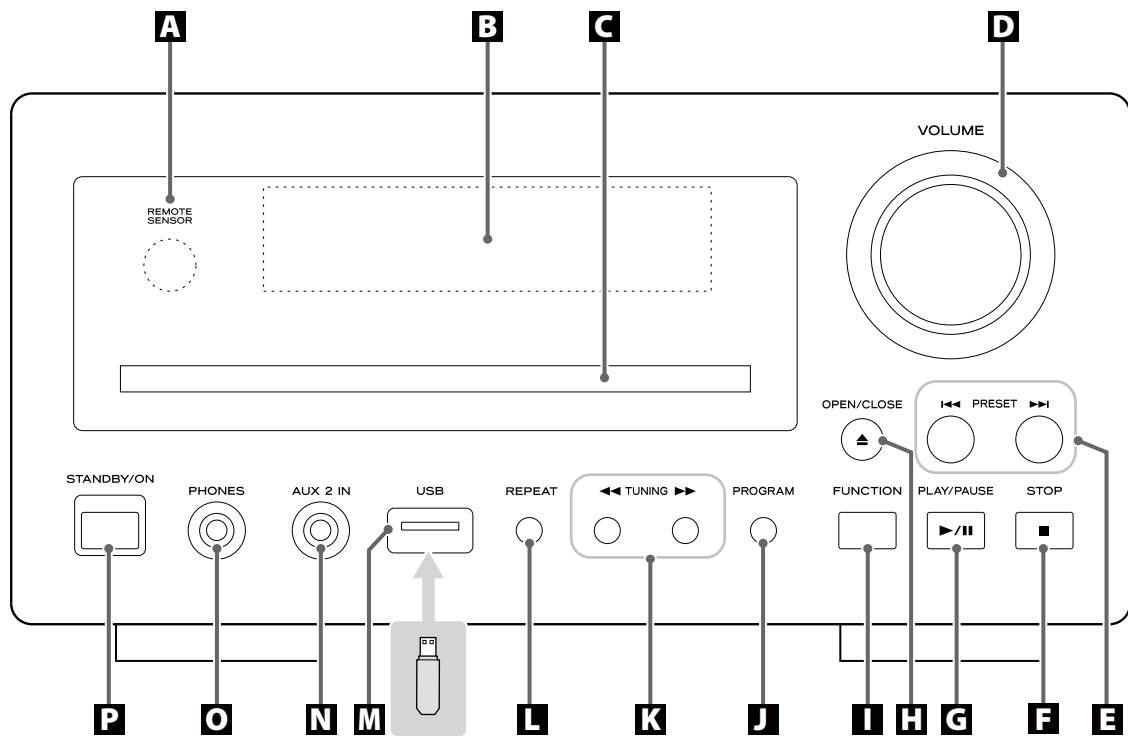
- White plug → White jack (L: left channel)
- Red plug → Red jack (R: right channel)

G Power cord

After all other connections have been made, connect the AC power cord into the wall socket. Ensure that your AC voltage corresponds to the voltage marked on the rear panel of the unit. Consult a qualified electrician if you are in doubt.

- If you are not going to use the unit for some time, disconnect the power cord from the wall socket.

Identifying the Parts (Main Unit)



A Remote sensor

Receives signals from the remote control unit. Point the remote control unit at this sensor when operating the remote control unit.

B Display**C Disc tray****D VOLUME**

Turn this knob to adjust the volume level.

E Skip (◀◀/▶▶)/PRESET

In FM mode, use these buttons to select a preset channel.

In DISC or USB mode, use these buttons to skip tracks/files.

F Stop (■)

In DISC or USB mode, use this button to stop playback.

G Play/Pause (▶/⏸)

In DISC or USB mode, use this button to start or pause playback.

H OPEN/CLOSE (▲)

Use this button to open and close the disc tray.
When the tray is opened during playback, it may take a few seconds before the disc is "unloaded" and the tray opens.

I FUNCTION

Use this button to select a source.

J PROGRAM

In FM mode, use this button to preset stations.

In DISC or USB mode, use this button to program tracks.

K Search (◀◀/▶▶)/TUNING

In FM mode, use these buttons to tune in to a station.

In DISC or USB mode, use these buttons to search for a part of a track/file.

L REPEAT

In DISC or USB mode, use this button for Repeat or Shuffle Playback.

M USB connector

You can connect an USB memory device to this connector.

N AUX 2 IN

You can connect a portable audio player to this jack.

O PHONES

To listen with headphones, first lower the volume level to the minimum. Then, connect the headphones plug into the PHONES jack, and adjust the volume by turning the VOLUME knob.

The speakers will make no sound when headphones are plugged in.

⚠ CAUTION

Do not connect headphones with the PHONES jack while wearing them. Moreover, do not disconnect headphones or turn the unit on or off while wearing them. Very loud sound could be output from the headphones.

AVOID DAMAGING YOUR HEARING – Do not put on headphones until after plugging them in.

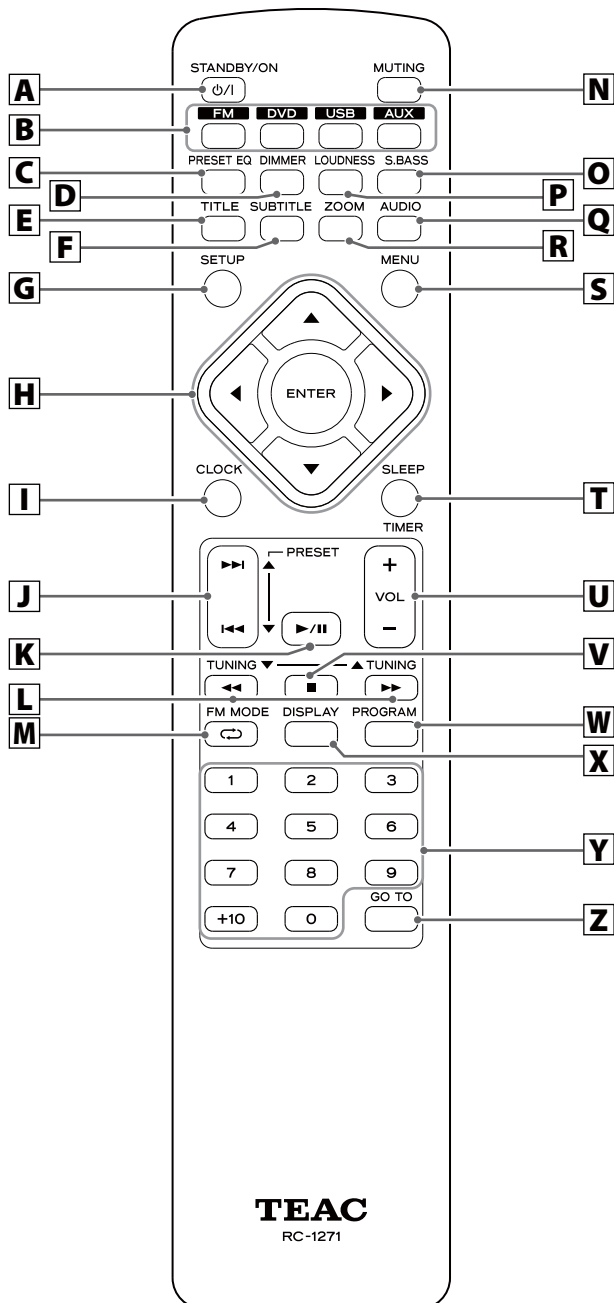
P STANDBY/ON

Use this button to turn the unit on and standby.

The illumination turns off when the unit is turned on.

The illumination lights orange when the unit is in the standby mode.

Identifying the Parts (Remote Control Unit)



A STANDBY/ON

Use this button to turn the unit on and standby.

B Source

Use these buttons to select a source.

C PRESET EQ (Preset Equalizer)

Use this button to select a Preset Equalizer (Classic, Jazz, Rock, Pop and flat (off) modes).

D DIMMER

Use this button to change the brightness of the front panel display.

E TITLE

During PBC playback of a video CD, use this button to display a menu.

F SUBTITLE

Use this button to select the subtitles during DVD playback.

G SETUP

Use this button to enter the setup menu where you can set up the parameters of the unit.

H Cursor (▲/▼/▶/◀) buttons and ENTER

Use these Cursor buttons for navigation of on-screen menus and the ENTER button to confirm selections.

I CLOCK

In the standby mode, use this button to adjust the clock.

J Skip (◀◀/▶▶)/PRESET (◀/▶)

In FM mode, use these buttons to select a preset channel.

In DISC or USB mode, use these buttons to skip tracks/files.

K Play/Pause (▶/⏸)

In DISC or USB mode, use this button to start or pause playback.

L Search (◀◀/▶▶)/TUNING (▼/▲)

In FM mode, use these buttons to tune in to a station.

In DISC or USB mode, use these buttons to search for a part of a track/file.

M FM MODE/Repeat (↻)

In FM mode, use this button to select stereo or monaural.

In DISC or USB mode, use this button for Repeat or Shuffle Playback.

N MUTING

Use this button to mute the sound.

O S.BASS

Use this button to boost the bass.

P LOUDNESS

Use this button to compensate for the loss of bass at low volumes.

Q AUDIO

Use this button to select the audio for playback.

R ZOOM

In DISC or USB mode, use this button to enlarge the image.

S MENU

In DISC mode, use this button with menu-enabled DVD discs to bring up the DVD menu.

During playback of MP3/WMA/JPEG files, use this button to switch between the folder list and the file list.

When a video CD with PBC is loaded, use this button to turn the PBC function on or off.

T SLEEP/TIMER

When the unit is on, use this button to set the sleep timer. In the standby mode, use this button to set the wake up timer.

U VOL (+/-) (Volume)

Use these buttons to adjust the volume level.

V Stop (■)

In DISC or USB mode, use this button to stop playback.

W PROGRAM

In FM mode, use this button to preset stations.

In DISC or USB mode, use this button to programme tracks.

X DISPLAY

Use this button to display information about the currently playing disc.

Y Number buttons

Use these buttons to enter track numbers, passwords, etc.

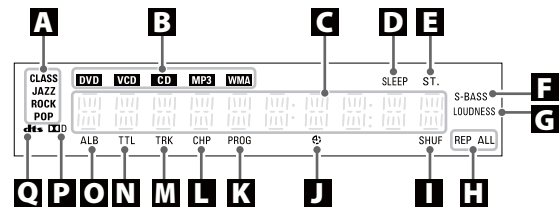
Z GO TO

Use this button to start time search.

Note:

To simplify explanations, instructions in this manual might refer to the main unit or remote control only. In such cases, the same controls on the remote control and main unit will operate similarly.

Front panel display



A Shows currently selected equalizer.

B Shows the type of the current disc or file.

C Shows frequency, volume, etc.

D Lights when Sleep Timer is set.

E Lights when an FM stereo broadcast is tuned in.

F Lights when the S.BASS function is on.

G Lights when the LOUDNESS function is on.

H Lights during Repeat Playback.

I Lights during Shuffle Playback.

J Lights when the Timer function is on.

K Lights during Programmed Playback.

L Lights when the chapter number is displayed.

M Lights when the track number is displayed.

N Lights when the title number is displayed.

O Lights when the album name is displayed.

P Lights to show that Dolby Digital audio is being played back.

Q Lights to show that DTS audio is being played back.

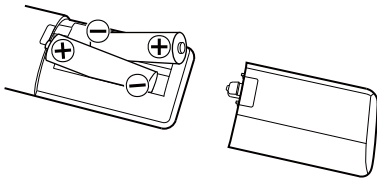
Remote Control Unit

The provided Remote Control Unit allows the unit to be operated from a distance.

When operating the remote control unit, point it towards the remote sensor on the front panel of the unit.

- Even if the remote control unit is operated within the effective range (16 ft/5 m), remote control operation may be impossible if there are any obstacles between the unit and the remote control.
- If the remote control unit is operated near other products which generate infrared rays, or if other remote control devices using infrared rays are used near the unit, it may operate incorrectly. Conversely, the other products may operate incorrectly.

Battery installation



1. Remove the battery compartment cover.
2. Insert two "AAA" (R03 or UM-4) dry batteries. Make sure that the batteries are inserted with their positive "+" and negative "-" poles positioned correctly.
3. Close the cover.

Battery replacement

If the distance required between the remote control unit and main unit decreases, the batteries are exhausted. In this case replace the batteries with new ones.

For more information about collection of batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

Precautions concerning batteries

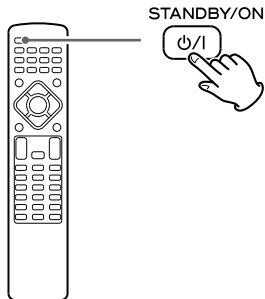
Misuse of batteries could cause them to rupture or leak leading to fire, injury or the staining of nearby things. Please read and observe the following precautions carefully.

- Be sure to insert the batteries with correct positive (+) and negative (-) orientations.
- Use batteries of the same type. Never use different types of batteries together.
- Both rechargeable and non-rechargeable batteries can be used. Refer to the precautions on their labels.
- If the remote control will not be used for a long time (more than a month), remove the batteries to prevent them from leaking.
- If the batteries leak, wipe away the leakage inside the battery compartment and replace the batteries with new ones.
- Do not use batteries of types other than those specified. Do not mix new batteries with old ones or use different types of batteries together.
- Do not heat or disassemble batteries. Never throw batteries into fire or water.
- Do not carry or store batteries with other metallic objects. The batteries could short circuit, leak or explode.
- Never recharge a battery unless it is confirmed to be a rechargeable type.

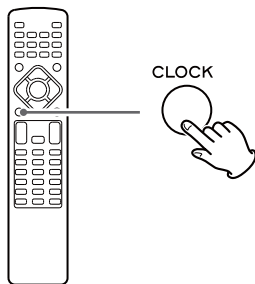
Setting the Clock

When you connect the power cord into the wall socket and turn on the unit for the first time, set the clock.

- 1** If the unit is on, press the **STANDBY/ON** button to put it in the standby mode.



- 2** Press the **CLOCK** button.

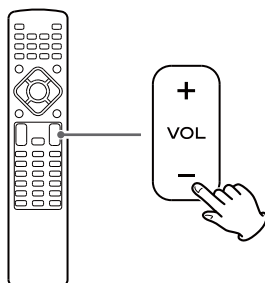


- If “- -: -” blinks on the display, press the **CLOCK** button again.

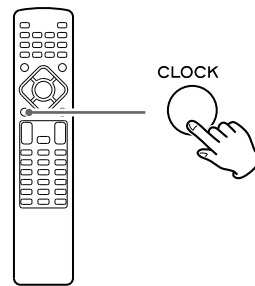
“Clock Set” appears on the display, and the “hour” value starts blinking.

- When no button is pressed for 10 seconds, the time setting mode will be cancelled.

- 3** Press the **Volume (+ or -)** button to set the current hour.

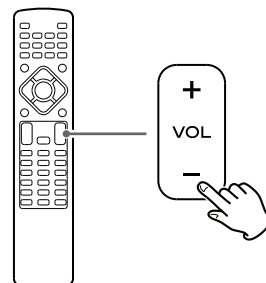


- 4** Press the **CLOCK** button.

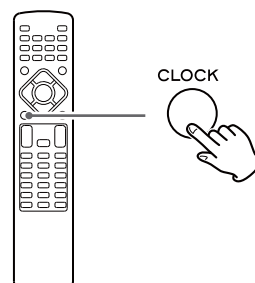


The “minute” value starts blinking.

- 5** Press the **Volume (+ or -)** button to set the current minute.



- 6** Press the **CLOCK** button.



The clock starts.

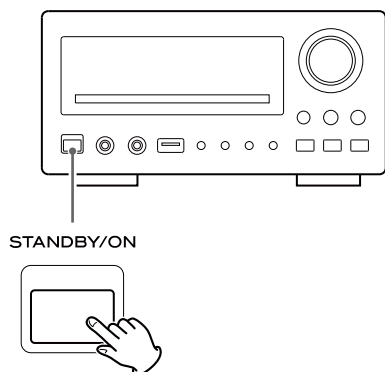
After the clock is set, also set the settings of the unit using the **SETUP** menu (page 33).

Basic Operation (1)

This chapter describes the basic operation which is available in every mode.

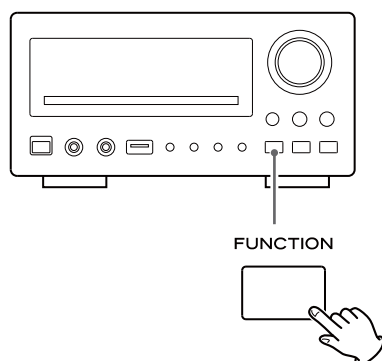
When you use the unit for the first time, set the clock and the setting of the unit. (see previous page for "Setting the Clock" and page 33 for "Settings").

1 Press the STANDBY/ON button to turn the unit on.

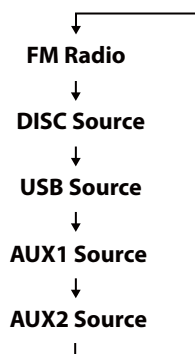


- The unit turns on with the source that was last selected.
- You can also use the FUNCTION button (or the FM, DVD, USB or AUX button on the remote control unit) to turn the unit on.

2 Press the FUNCTION button to select a source.



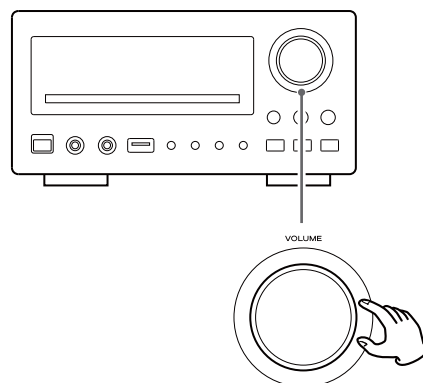
Each time the FUNCTION button is pressed, the source changes as follows:



The selected source is shown on the front panel display.

- To listen to an external source connected to the AUX IN jack, select AUX1 or AUX2.
- You can also select AUX1 or AUX2 by pressing the AUX button on the remote control unit once or twice.

3 Play the source, and adjust the volume using the VOLUME knob.



The volume is adjustable from MIN to MAX. You can hold down the VOLUME – or + buttons on the remote control unit to reduce or bring up the volume continuously.

- Press the STANDBY/ON button to put the unit in the standby mode when it is not being used.

ECO Power Standby mode

When you press the STANDBY/ON button to put the unit in the standby mode, "ECO POWER" is shown on the display first, then the clock is shown in a few seconds before the unit turns off the display to save the power consumption.

- In ECO Power Standby mode, the illumination of the STANDBY/ON button lights orange.

To show the clock on the display during ECO Power Standby mode, press the CLOCK button. The illumination of STANDBY/ON button turns off.

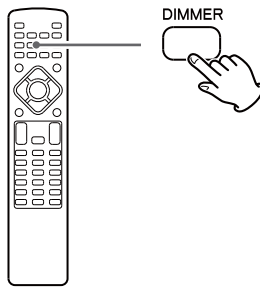
- If no operation is done for a few minutes, the unit switches to ECO Power Standby mode again.

Recording a source

You can record the sound of a disc or USB memory device onto a CD or a cassette tape connected to the DIGITAL OUT terminal or the LINE OUT jacks.

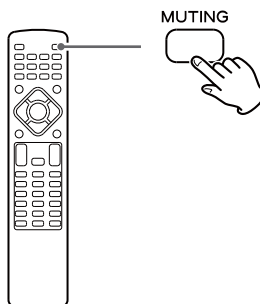
- The sound of other sources does not come out of the terminal or jacks.
1. Select "DISC Source" or "USB Source" by pressing the FUNCTION button.
 2. Start recording.
- The volume, and tone control (LOUDNESS and S.BASS) have no effect on the recording signals.

Dimmer



Press the DIMMER button to dim the display. You can adjust the display brightness with three brightness levels.

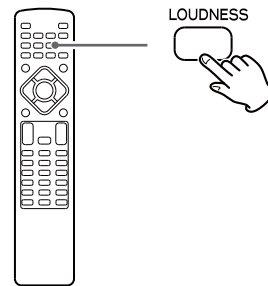
Muting



To mute the sound temporarily, press the MUTING button. Press the MUTING button again to restore the sound.

- "MUTING" blinks on the display while muting is engaged.
- If you change the volume when the sound is muted, it will be unmuted.

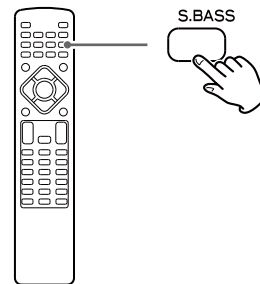
LOUDNESS button



Press the LOUDNESS button to compensate for the loss of bass at low volumes.

Turn it off when listening at normal levels.

S.BASS (Super Bass) button

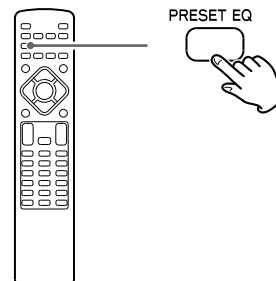


Press the S.BASS button to turn the Bass boost function on or off. The S-BASS indicator lights when this function is on.

- The S.BASS and the LOUDNESS buttons do not work together.

Preset Equalizer

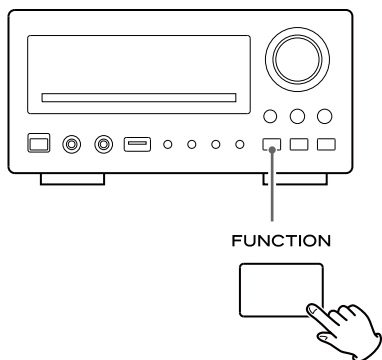
Press the PRESET EQ button repeatedly to select a preset equalizer.



- CLASSIC: A balanced sound; suitable for classical music.
- JAZZ: Suitable for jazz music.
- ROCK: Provides a heavy powerful sound; suitable for rock music.
- POP: Emphasizes vocal tones; suitable for popular music.
- FLAT: Equalizer is off.

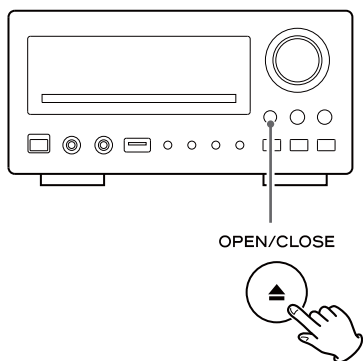
Listening to a Disc

1 Press the **FUNCTION** button to select "DISC Source".

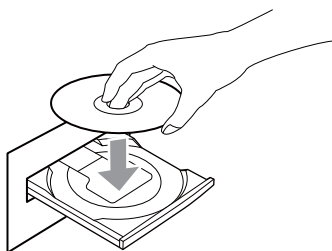


- When no disc is loaded in the disc tray, "NO DISC" is displayed.

2 Press the **OPEN/CLOSE** (▲) button to open the tray.



3 Insert the disc label side up.



- In the case of double-sided discs, the side to be played should be face down.
- Make sure the disc is centered in the tray in order to avoid any malfunction or jamming of the tray or damage to the disc.

4 Press the **OPEN/CLOSE** (▲) button again to close the tray.

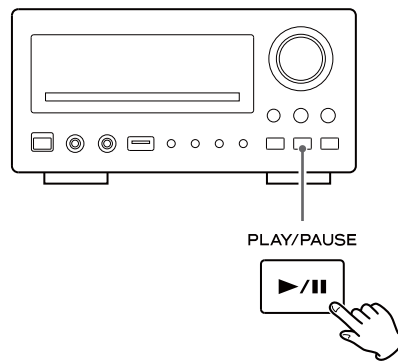


The tray will close. Take care that you do not catch your fingers in the tray.

It takes a few seconds for the unit to load the disc. After the unit load the disc, the disc type (CD, DVD etc.) is shown on the TV screen.

- Some discs may automatically start playback.

5 Press the **Play/Pause** (▶/||) button to start playback if playback has not started automatically.

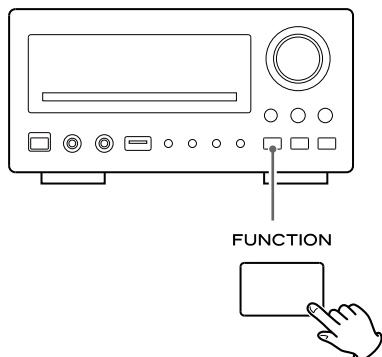


If a menu is shown on the screen (some DVD or video discs may show such a menu), see "On-screen menu" on the next page.

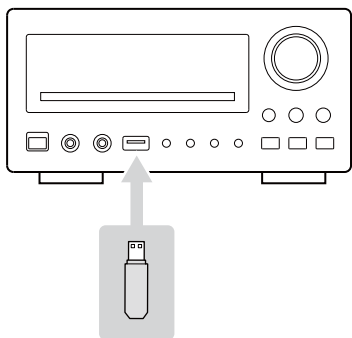
Listening to a USB Memory Device

For about USB memory device compatibility, see page 8.

1 Press the FUNCTION button to select "USB Source".



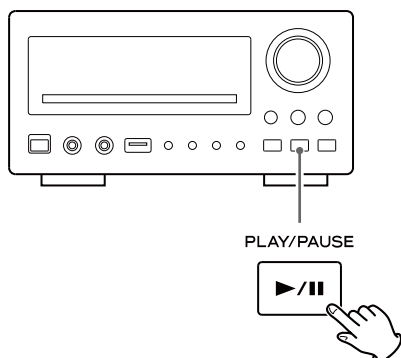
2 Plug your USB memory device into the USB connector.



It takes a few seconds for the unit to load the USB memory device. The unit automatically starts playback.

- You can reverse steps **1** and **2**.
- Only USB flash memory can be used. Do NOT use a high-capacity USB hard disc with this unit.

3 Press the Play/Pause (▶/||) button to start playback if playback has not started automatically.



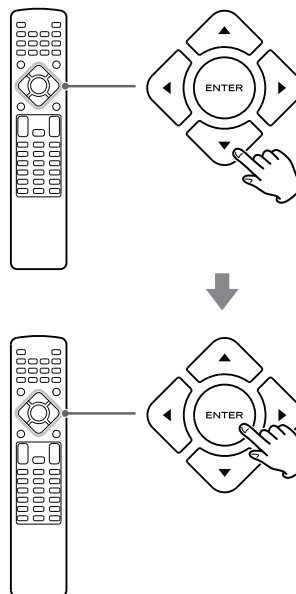
On-screen Menu (1)

An on-screen menu is shown when a DVD or video CD with playback control (PBC) content is loaded.

The way in which the menu works may differ according to disc.

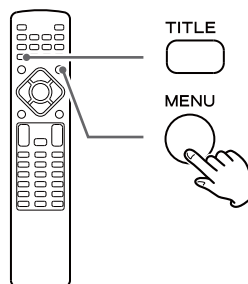
DVD menus

Use the Cursor (▲/▼/▶/◀) buttons to select the menu item from a DVD, and confirm the selection using the ENTER button.



Returning to the menu screen

Press either the MENU button or the TITLE button.

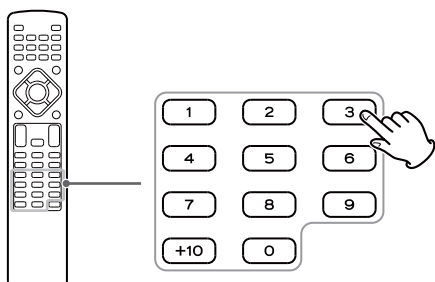


- Depending on the disc, pressing the MENU button during playback may restart playback from the first chapter.

On-screen Menu (2)

Video CDs with PBC

When a Video CD (Version 2.0) or Super Video CD with Playback Control functions (PBC) is loaded, a menu will appear on the screen.



Select an item using the Number buttons to start playback.

- If the track or chapter number is less than 9, press the 0-9 number buttons.
- If the track or chapter number is more than 9, press "+10" and one of the Number buttons.
(For example: the track or chapter number is 28, press "+10" twice, then "8" button.)
- Press the ►► button to advance to the next page. Press the ◀◀ button to return to the previous page.
- If you press the TITLE button during playback, the menu will appear on the screen.

Turning on or off the PBC function

Press the MENU button to turn the PBC function on or off.

When the PBC function is off:

If you press the Play/Pause (►/||) button in the stop mode, playback will start from the first track.

When the PBC function is on:

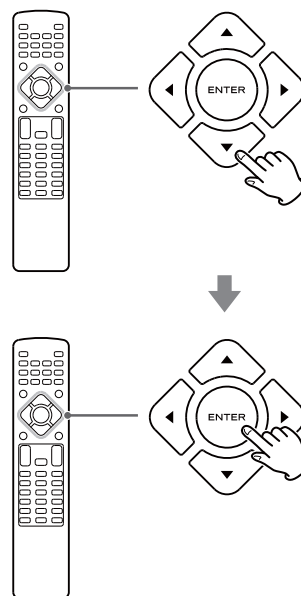
If you press the Play/Pause (►/||) button in the stop mode, a menu will appear on the screen.
Select an item using the Number buttons to start playback.

MP3 and Windows Media-formatted audio files

When a disc or USB is loaded, a list of directories appears on the screen.

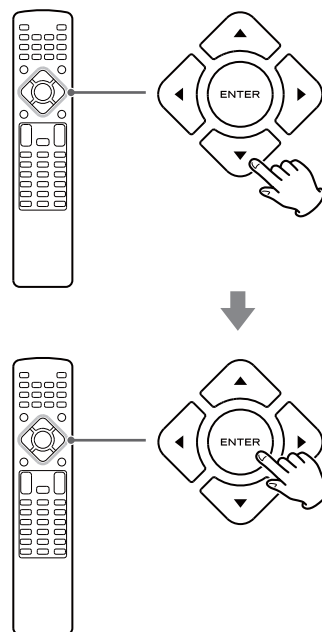
- It may take 30 seconds or more to display the list of files depending on the disc you are playing back.

1 Select a directory by pressing the ▲/▼ buttons and press the ENTER button.



File names will appear on the screen.

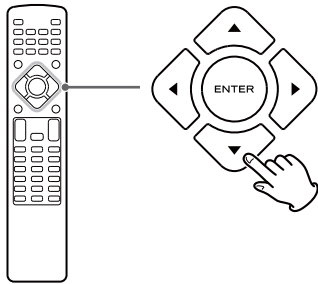
2 Select a file and press the ENTER button. Playback will start from the selected file.



- Press the MENU button to switch between the folder list and the file list. When you select the file list, you can select a file without selecting the folder.
- If you want to return to the parent folder, display the folder list using the MENU button, select "....." using the Cursor buttons and press the ENTER button.
- Depending on the disc, invisible folders such as "TRASH" might be shown on the screen. Please disregard folders which do not contain playable files.
- During playback, elapsed time of the current file is displayed on the front panel display.

JPEG files

- 1 Choose a picture in the directory list by pressing the ▲/▼ buttons.**

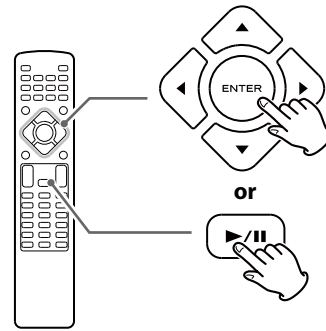


After a short wait a thumbnail of the picture will appear on the right.

- 2 Press the Cursor buttons to select a picture for large view.**

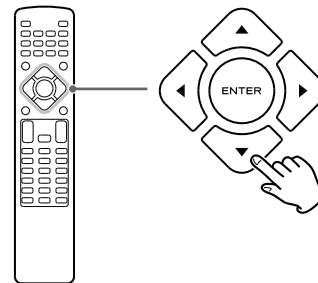
- You can also use the Number buttons. In this case, press the ENTER button to view the selected picture. Pictures are shown continuously (Slide-Show) from the selected file.
- Some photos may appear distorted due to the configuration or characteristics of the disc. Larger photos may take a short while to appear due to their larger data size.

Viewing the picture at full-screen size



Press the ENTER or Play/Pause (▶/||) button.

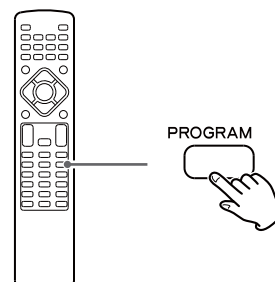
- When viewing at full-screen size, press Skip (◀◀/▶▶) buttons to view a previous or next photo. You can also use the ◀/▶ buttons or ▲/▼ buttons to rotate or invert the image.



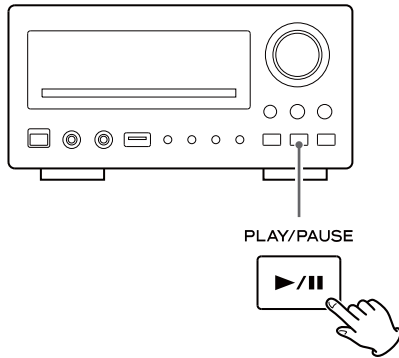
- When viewing at full-screen size, press the Stop (■) button to display a number of thumbnails at a time on the screen. You can use the Cursor buttons to select a particular photo and then press the ENTER button to view that image at full-screen size. You can also select "Slide Show" to view all the photos in a series or "Menu" to adjust settings. You can also select "◀Prev" or "Next▶" to move to the previous or next screen of thumbnail images.
- Press the MENU button to exit thumbnail or full-screen views.

Changing the transition effect of the Slide-Show

Press the PROGRAM button repeatedly to select one of the transition effects (Example: Wipe Top, Diagonal Wipe Left Top, Window H etc.). The Slide-Show starts with the selected transition effect.



Pausing Playback (Freezing a Picture)

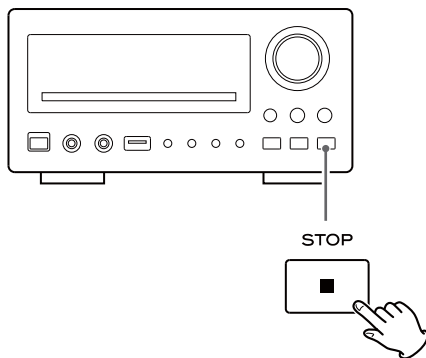


Press the Play/Pause (▶/||) button to pause audio playback. Any DVD or video CD image is frozen.
Press the Play/Pause (▶/||) button again to restart playback.

⚠ CAUTION

Do not leave player in the pause mode for extended periods of time. Damage to your TV or the player may occur.

Stopping Playback (Resume Mode)

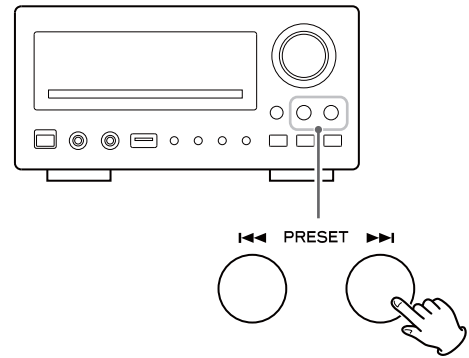


When the Stop (■) button is pressed, playback is stopped, and the display shows "PRESS PLAY KEY TO CONTINUE". Pressing the Play/Pause (▶/||) button continues playback.

Pressing any of the following buttons cancels resume mode:

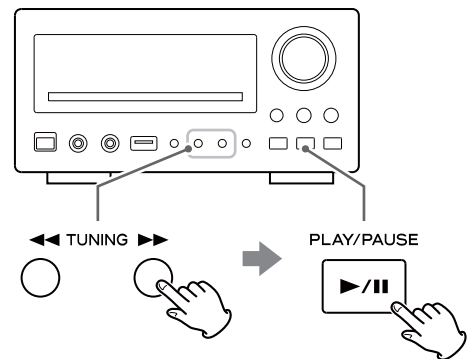
Stop (■) in the stop mode,
OPEN/CLOSE (▲), FUNCTION, STANDBY/ON

Skipping Playback



Press the Skip (◀◀/▶▶) button repeatedly until the desired title, chapter or track is found. The selected title, chapter or track will be played from the beginning.

Searching for a Part of a Chapter or Track



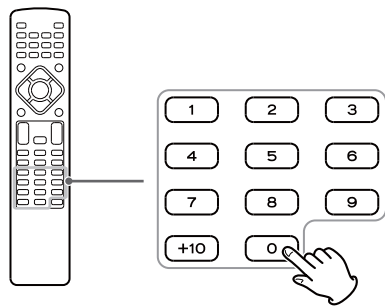
To Search quickly the disc in the forward or reverse direction, press the Search (◀◀ or ▶▶) buttons during playback. Press the Play/Pause (▶/||) button when the part you want to listen to is found.

Each time the Search (◀◀ or ▶▶) button is pressed, the search speed changes as follows:

→ x2 → x4 → x8 → x16 → x32 → normal speed

- CD/Video CD/MP3: When you forward fast to the end of a track (or reverse to the beginning of a track), the scan function will be cancelled and normal speed playback will continue.
- The sound is muted during fast search.
- This function may not work with some discs.

Selecting a Chapter or Track



DVD, Video CD and CD

Use the Number buttons to select tracks or chapters for playback. For instance, to select track number 35, press "+10", "+10", "+10" and "5".

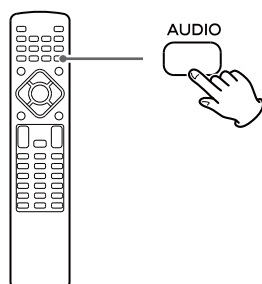
- The Number buttons do not work during PBC playback of video CDs (page 24).

MP3, WMA and JPEG

To select a file, enter 3 digit numbers. As an example, to select number 5, press "0", "0" and "5". (Optionally, you may press just the number "5" and then wait a few seconds.)

Selecting Audio

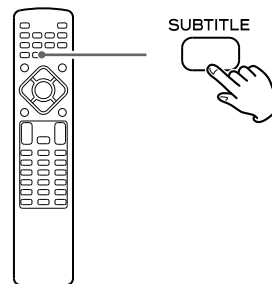
Many DVD discs include audio in different languages, as well as stereo and multi-channel surround versions of the soundtrack. CDs and video CDs allow the left, right or stereo channels to be selected.



Pressing the AUDIO button changes between the different audio tracks available, and the result is shown on the screen.

- Sometimes the picture playback will appear to freeze momentarily when the audio is changed.
- It may be necessary to change the audio on some discs using the on-screen disc menu.
- Some discs cannot have their audio changed in the way described here, as well as some discs which have only one audio stream. If you attempt to select different audio with these discs, the prohibit icon "⊘" is shown on the screen.

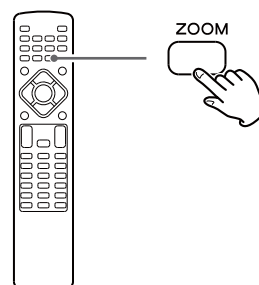
Selecting Subtitles



Repeated presses of the SUBTITLE button cycle through available languages in the disc.

- Subtitles do not always appear immediately after the language has been selected. It may take a few seconds until the subtitles appear.
- Some captions on some discs cannot be removed or changed using this button. Some discs may have only one sub-caption language, in which case, the choice is obviously restricted to one subtitle or no subtitles.
- It may be necessary to change the subtitles on some discs using the on-screen disc menu.
- Some discs cannot have their subtitles changed in the way described here. If you attempt to select a different subtitle with these discs, the prohibit icon "⊘" is shown on the screen.

Picture Zoom



To zoom the picture, press the ZOOM button during playback.

Each time the ZOOM button is pressed, the magnification level changes as follows:

DVD, Video CD:

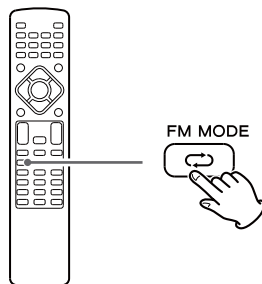
→ 2x → 3x → 4x → 1/2 → 1/3 → 1/4 → off

JPEG:

→ 100% → 125% → 150% → 200% → 75% → 50% → off

- You can shift the zoom point by pressing the Cursor buttons during zoom playback.
- Zooming does not work on subtitles or menu screens.

Repeat and Shuffle Playback



Each time the Repeat (↺) button is pressed, the mode changes:

- This feature is not available for some discs. The “prohibit” mark is shown on the screen in such cases.
- If one of the following buttons is pressed, repeat mode will be canceled:

STANDBY/ON, OPEN/CLOSE (▲), FUNCTION

DVD



CHAPTER

The currently selected chapter will be played repeatedly. If another chapter is selected during Repeat Playback, the newly-selected chapter will repeat.

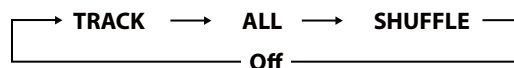
TITLE

The currently selected title will be played repeatedly.

ALL

All the contents in the disc will be played repeatedly.

CD



TRACK

The currently selected track will be played repeatedly. If another track is selected during Repeat Playback, the newly-selected track will repeat.

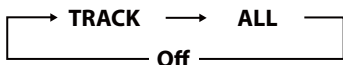
ALL

All the tracks in the disc will be played repeatedly.

SHUFFLE

The whole tracks of the disc will be played randomly.

Video CD



TRACK

The currently selected track will be played repeatedly. If another track is selected during Repeat Playback, the newly-selected track will repeat.

ALL

All the contents in the disc will be played repeatedly.

- The repeat function does not work during PBC playback of video CDs. (page 24)

MP3/WMA/JPEG



REPEAT ONE

The currently selected file will be played repeatedly. If another file is selected during Repeat Playback, the newly-selected file will repeat.

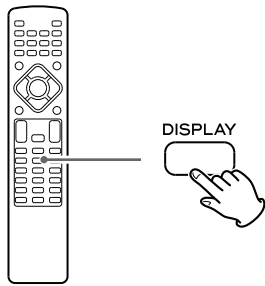
REPEAT ALL

All the files in the currently selected folder will be played repeatedly.

SHUFFLE

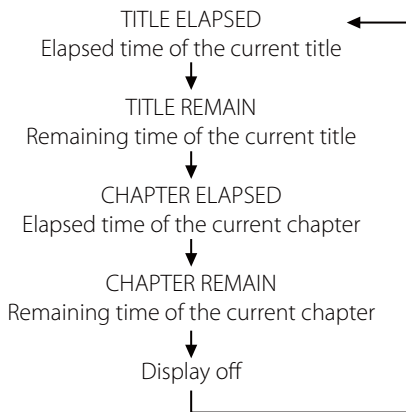
The whole files in the currently selected folder will be played randomly.

Changing the Display Mode

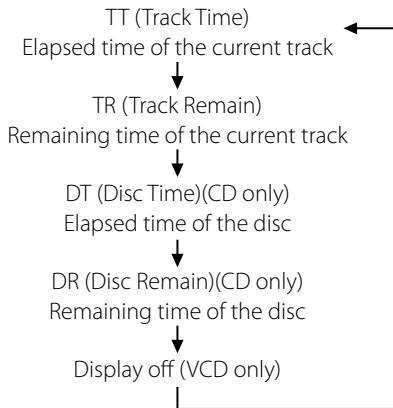


Each time the DISPLAY button is pressed during playback, following information appears on the screen.

DVD



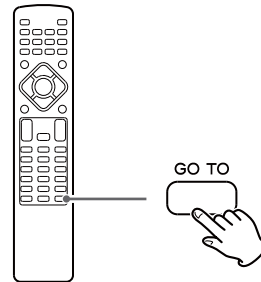
CD/Video CD



Time Search (VCD/CD)

You can start playback from the specified hour/minute/second.

1 During playback, press the GO TO button.



To search within the entire disc

Press the GO TO button once.
"DT: --:--" is highlighted on the screen.

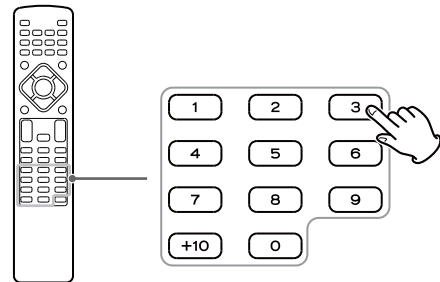
To search within the current track

Press the GO TO button twice.
"TT: --:--" is highlighted on the screen.

To search within a track of the disc

Press the GO TO button 3 times.
"T: -- / --" is highlighted on the screen.
Then, enter the track number using the Number buttons.
(For example, when you want to select track 2, press "2".)

2 Within 7 seconds, enter your desired hour, minute and second using the Number buttons.



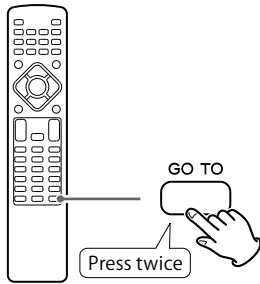
For example, if the length of the current track is 3 minutes, enter a number smaller than 3 minutes.

Playback starts from the selected part.

Time Search (MP3/WMA)

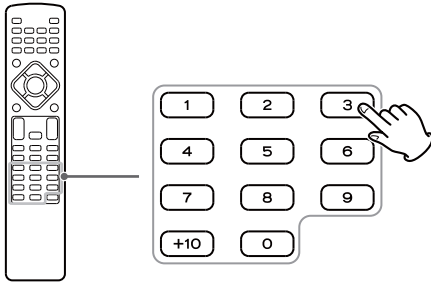
You can start playback from the specified minute/second.

- 1 During playback, press the GO TO button twice.



"--:--" is highlighted on the screen.

- 2 Within 7 seconds, enter your desired minute and second using the Number buttons.



For example, if the length of the current file is 3 minutes, enter a number smaller than 3 minutes.

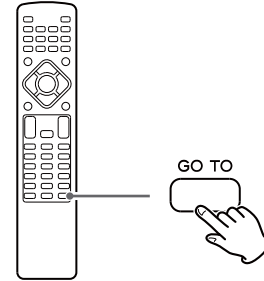
Playback starts from the selected part.

Chapter Search/Time Search (DVD)

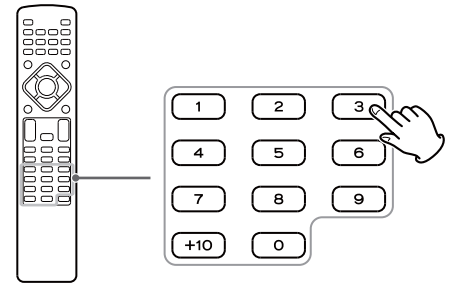
Chapter search

You can start playback from the beginning of the specified chapter.

- 1 During playback, press the GO TO button.



- 2 Within 7 seconds, enter your desired chapter number (2 digit) using the Number buttons.

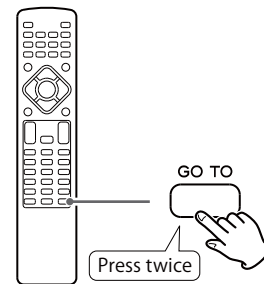


Playback starts from the beginning of selected chapter.

Time search

You can start playback from the specified hour/minute/second.

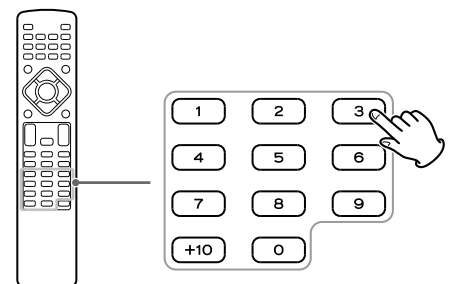
- 1 During playback, press the GO TO button twice.



You can select the time you want to play from within the current title.

If you want to search within the current chapter, press the GO TO button three times.

- 2 Within 7 seconds, enter your desired hour, minute and second using the Number buttons.

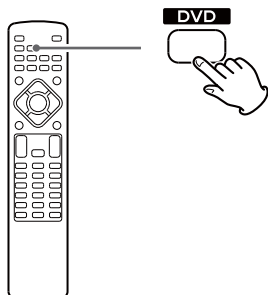


Playback starts from the selected part.

Programmed Playback (DVD, VCD, CD)

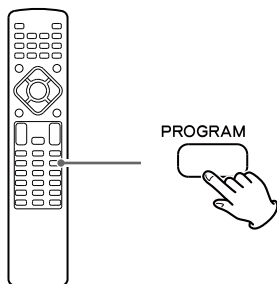
Up to 20 chapters/tracks can be programmed in the desired order.

- 1** If another source is selected, press the DVD button to select "DISC Source".



- You can also select "DISC Source" by using the FUNCTION button on the main unit.

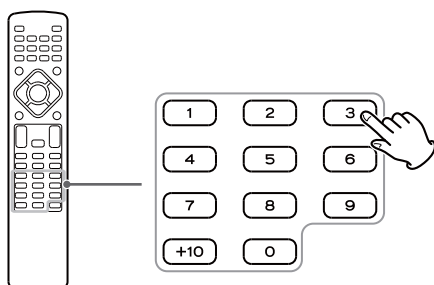
- 2** Press the PROGRAM button.



The programme list appears on the screen.

- To cancel the programme mode, press the PROGRAM button again, or select "EXIT" using the Cursor buttons and press the ENTER button.

- 3** Enter your desired "title and chapter number" or "track number" using the Number buttons.

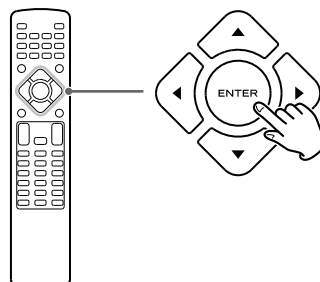


For example, to enter number 5, press "5".

Repeat this step to programme more chapters/tracks.

- If you made a mistake, move the cursor on the track number and overwrite it using the Number buttons.
- To programme more than 11 chapters/tracks, press the ►► button to advance to the next programme page (or select "►►" using the Cursor buttons and press the ENTER button). Press the ◄◄ button to return to the previous page.

- 4** When the selection of chapter/track numbers is completed, select "START" using the Cursor buttons and press the ENTER button to start programmed playback.

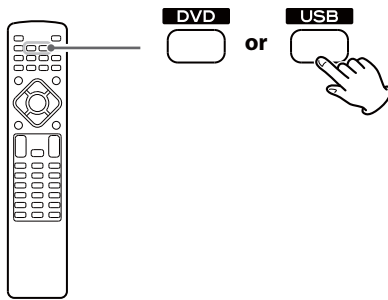


- During programmed playback, the Number buttons do not work.
- When programmed playback ends, the programme is cleared.
- If you press one of the following buttons, the programmed contents will also be cleared.

OPEN/CLOSE (▲), STANDBY/ON, Stop (■) twice,
FUNCTION (AUX, USB, FM)

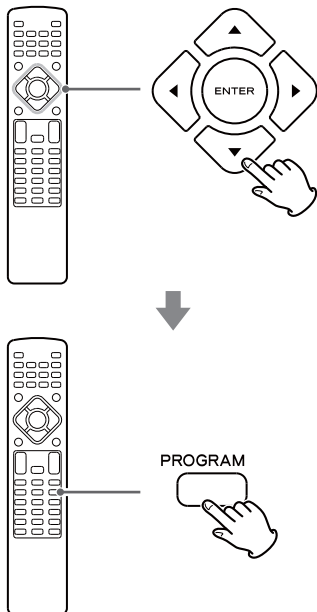
Programmed Playback (MP3, WMA)

- 1** If another source is selected, press the DVD or USB button to select "DISC Source" or "USB Source".



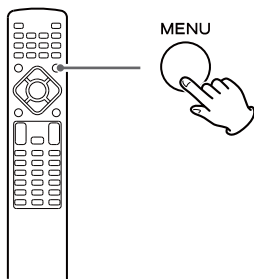
- You can also select "DISC Source" or "USB Source" by using the FUNCTION button on the main unit.

- 2** Select a file using the Cursor buttons, then press the PROGRAM button.

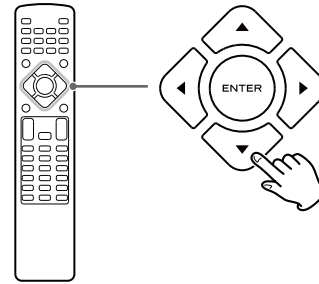


The file is added to the programme list.

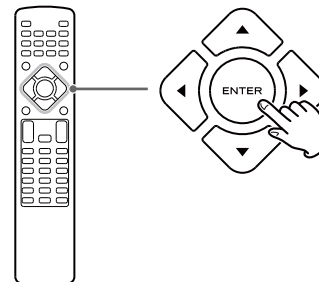
- 3** Press the MENU button once or twice to display the programme list.



- 4** Highlight the first file in the programme list using the Cursor buttons.



- 5** Press the ENTER button to start programmed playback.



- If you press one of the following buttons, the programmed contents will be cleared.

FUNCTION (AUX, USB, FM)
OPEN/CLOSE (▲) (in DISC mode), STANDBY/ON

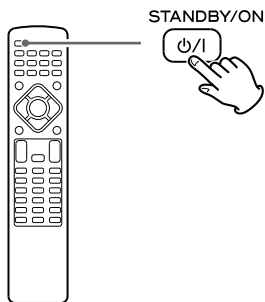
Settings (Introduction)

This chapter describes how to use the SETUP menu. Most settings and adjustments are required to be set when you first use the system.

Using the SETUP menu, you can adjust the picture size, set a preferred language for audio, the OSD (On Screen Displays), and limit playback by children, etc.

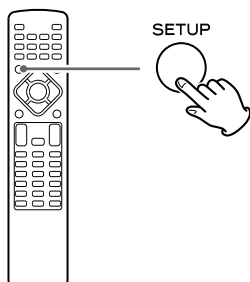
For the detail of each menu, see following pages.

1 Turn on the unit, and the connected TV or monitor.



- The SETUP menu is available only in the DISC Source mode or the USB Source mode. If another source is selected, press the DVD or USB button to select the DISC Source or the USB Source.

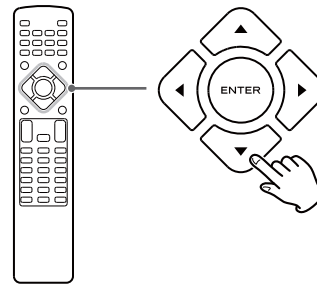
2 Press the SETUP button.



The setup menu appears on the screen.

- If the item is shown in gray, the item cannot be used.
- To exit the setup mode, press the SETUP button again.
- Although it is possible to enter the setup menu while playback is continuing (or in resume mode), not all menu functions will be available. To expand the number of available functions, press the Stop (■) button twice.

3 Use the Cursor buttons to navigate the menus.

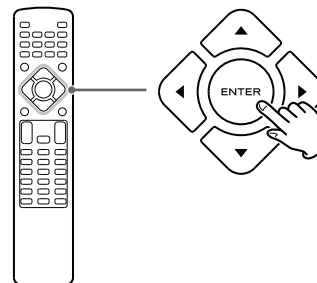


If no cursor is visible on the screen, use the left and right (◀/▶) buttons to select a page.

Use the up and down (▲/▼) buttons to highlight menu items within the selected page.

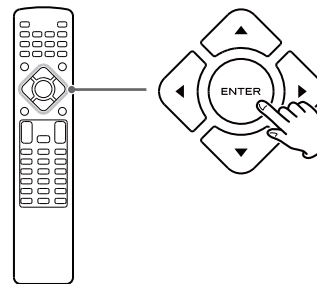
Press the left (◀) button to return to the upper menu.

4 Enter the menu item with the ENTER button.



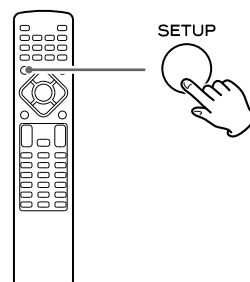
5 Use the up and down Cursor (▲/▼) buttons to select the options within the menu item, and press the ENTER button to confirm the entry.

- To adjust the setting value, press the left and right (◀/▶) buttons, then press the ENTER button.



Individual menu functions are described from the next page. Repeat steps 3 through 5 as required.

6 Press the SETUP button to exit the setup mode.



TV DISPLAY

The shape of the TV or monitor may not match the shape of the movie frame. To avoid distortion on older TVs, you may need to change the way in which the image is displayed. TVs use a 4:3 aspect ratio; high-definition TVs use 16:9 aspect ratio (as do movies).

Note:

You may need to read your TV's manual in conjunction with this section in order to achieve the best results. Some discs do not allow the aspect ratio to be changed and you will therefore have to change the aspect ratio on the TV.

Make this setting while playback is stopped; you cannot do this while playing back a disc.

4:3 PAN SCAN

This mode is used with 4:3 TVs. 4:3 images are displayed normally. When showing 16:9 programmes, the full height of the screen is displayed, and the left and right part of the image are cut off.



4:3 picture



16:9 picture

4:3 LETTER BOX

This mode is used with 4:3 TVs. 4:3 images are displayed normally. 16:9 images are visible at their full width, but there are blank area at the top and bottom of the screen.



4:3 picture



16:9 picture

16:9

Use with a 16:9 wide TV.



4:3 picture



16:9 picture

- Some wide-screen discs that do not permit the Pan Scan mode playback are automatically played in Letter Box mode.
- Depending on the DVD, 4:3 Letter Box may be selected automatically instead of 4:3 Pan Scan and vice versa.
- If 16:9 (Wide) is selected and a normal TV is connected, 16:9 content will appear distorted during playback (objects look thin).

OSD (On Screen Display) LANGUAGE

Select the desired language for on-screen menus of MC-DV600 from the following:

ENGLISH (Default)

FRANÇAIS

ESPAÑOL

SCREEN SAVER

ON (Default)

The screen saver starts up if nothing is played back and no operations are performed for 4 minutes.

OFF

The screen saver does not start up.

DIGITAL AUDIO SETUP (DIGITAL OUTPUT)

You can select the audio signal output suitable for the connected device when playing the digital source.

OFF

Select this when you do not use the DIGITAL OUT or HDMI out terminal.

No signal is output from these terminals.

ALL

Select this when the unit is connected to an audio component equipped with a built-in digital audio decoder via the DIGITAL OUT or the HDMI out terminal.

PCM only (Default)

Select this when the unit is connected to an audio component such as amplifier/receiver, CD recorder or MD deck via the DIGITAL OUT or the HDMI out terminal.

DOLBY DIGITAL SETUP (DUAL MONO)

You can select the channel output for the DVD discs recorded in Dolby digital.

STEREO

Left channel is output from the left speaker, and right channel is output from the right speaker.

L-MONO

Left channel is output from the front left and right speakers.

R-MONO

Right channel is output from the front left and right speakers.

3D PROCESSING (Reverb mode)

This setting provides following sound effects by using just two speakers:

OFF

CONCERT

LIVING ROOM

HALL

BATHROOM

CAVE

ARENA

CHURCH

AUDIO SYNC

This setting can cause delays in the sound signal in 10 ms increments ranging from 0 ms to 200 ms (only for digital signals recorded on a disc or stored in a USB device; unavailable for analog signals coming from AUX 1 or 2).

Depending on the TV, it may take approximately 100 ms (0.1 sec.) for an image to appear after video signals are input, causing the image to appear after the sound coming from the MC-DV600 is heard.

If this happens or audio and video synchronization creates a less than optimal viewing experience, adjust the delay with the left (decrease) or right (increase) Cursor (◀/▶) buttons.

VIDEO OUTPUT

This setting is for selecting the output terminal of the video. You can select "S-VIDEO" (S-video output) or "Y Cb/Pb Cr/Pr" (Component video output).

S-VIDEO

Select this if you have connected the unit to your TV using S-Video jack.

Y Cb/Pb Cr/Pr

Select this if you have connected the unit to your TV using Component video jacks.

- When your TV is connected to the HDMI terminal, no signal is output from the component video output jacks.

TV MODE

This setting allows the selection of interlaced (INTERLACE) or progressive-scan (PROGRESSIVE) video from the component video outputs.

Progressive-scan video provides a better, clearer picture. However, it is not supported by every TV or monitor, and you should ensure that this is supported fully before turning on this option.

- **When your TV is not compatible with progressive scanning, never select "PROGRESSIVE".** Otherwise, a picture is distorted or no picture will be shown on the monitor. In case you select "PROGRESSIVE" by mistake, disconnect the connection of the MC-DV600 and the TV, and then connect in again. And change the setting to "INTERLACE" in the VIDEO SETUP menu.

Consumers should note that not all high definition TV sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of 480 (525) or 576 (625) progressive scan picture problems, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding our TV set compatibility with this model 480p (525p) and 576p (625p) DVD player, please contact our customer service center.

COLOR SETTING

You can adjust some parameters of video picture.

- 1 Highlight "COLOR SETTING" and press the right (▶) button.**

- 2 Use the left and right (◀/▶) buttons to select the parameter.**

SHARPNESS

This adjusts the sharpness of the picture shown on the monitor. Select HIGH, MEDIUM or LOW using the Cursor buttons, then press the ENTER button.

BRIGHTNESS

This adjusts the brightness of the picture. Use the left and right buttons to change the value from -20 to 20, then press the ENTER button.

CONTRAST

This adjusts the picture contrast. Use the left and right buttons to change the value from -16 to 16, then press the ENTER button.

GAMMA

This adjusts the gamma value of the picture. Select HIGH, MEDIUM, LOW or NONE using the Cursor buttons, then press the ENTER button.

HUE

This adjusts the green/red balance of the picture (only for progressive-scan output). Use the left and right buttons to change the value from -9 to 9, then press the ENTER button.

SATURATION

This adjusts the saturation level. Use the left and right buttons to change the value from -9 to 9, then press the ENTER button.

LUMA DELAY

This adjusts the luma delay. Select 0 T or 1 T using the Cursor buttons, then press the ENTER button.

- 3 Press the left (◀) button to return to the VIDEO SETUP Page.**

HDMI SETUP

AUTO (Default)

Select this to have the signal output when your TV or monitor is connected to the HDMI out terminal.

OFF

Select this when you do not use the HDMI out terminal.
No signal is output from the HDMI out terminal.

RESOLUTION

This setting is available only when your TV is connected to the HDMI terminal, and the HDMI SETUP setting is set to "AUTO".

Select proper resolution for your TV or monitor.

480P (60Hz) (Default)**720P (60Hz)****1080i (60Hz)****1080P (60Hz)****576P (50Hz)****720P (50Hz)****1080i (50Hz)****1080P (50Hz)**

TV TYPE

PAL

Select this when the unit is connected to a PAL TV.

AUTO

Select this when the unit is connected to a multi color system TV.

NTSC (Default)

Select this when the unit is connected to an NTSC TV.

AUDIO, SUBTITLE, DISC MENU

You can select a preferred language for audio, subtitle and disc menu.

- When you select a preferred language that is not recorded on the DVD, one of the recorded languages is automatically selected.
- You can override the AUDIO setting in the SETUP menu by pressing the AUDIO button on the remote control unit while a DVD disc is playing.
- You can override the SUBTITLE setting in the SETUP menu by pressing the SUBTITLE button on the remote control unit while a DVD disc is playing.
- Select OFF to turn subtitles off.
Note that subtitles on some discs cannot be removed even when you select OFF.

Settings (PREFERENCE) (2)

PARENTAL (Parental control)

Playback of some DVD discs can be limited depending on the age of the users. The parental control system allows the playback limitation level to be set by the parent. The default setting is "8".

Notes:

- The lower the level, the stricter the limitation.
- If the rating of the loaded DVD disc is higher than the level you set, the system will require a password. Enter your password and press the ENTER button to start playback.

1 Select the desired parental control level from the menu, then press the ENTER button.

1 KID SAF

Kids material; recommended especially for children and viewers of all ages.

2 G

General Audience; recommended as acceptable for viewers of all ages.

3 PG

Parental Guidance suggested.

4 PG 13

Material is unsuitable for children under age 13.

5-6 PGR, R

Parental Guidance - Restricted; recommended that parents restrict children under 17 from viewing or allow to view only when supervised by a parent or adult guardian.

7 NC-17

No children under age 17; not recommended viewing for children under age 17.

8 Adult

Mature materials; should be viewed only by adults due to graphic sexual material, violence or language.

2 You will be prompted to enter your password. Use the Number buttons to enter 2580 (or your privacy password if already established).

- No need to enter a password if "PASSWORD MODE" is set to OFF.

DEFAULT

All the items in the SETUP menu (except for the password and parental control) will be reset to the default settings.

Settings (PASSWORD SETUP)

PASSWORD MODE

You can temporarily unlock discs for playback according to the level.

To change this setting, select ON or OFF, enter your password, and press the ENTER button.

ON

You need a password to change the level of parental control.

OFF

You can change the level of parental control without a password. You cannot temporarily unlock discs for playback.

PASSWORD

You can set a new password for parental control.

The default password is 2580.

1 Select "CHANGE" and press the ENTER button.

2 Enter 2580 (or your privacy password) using the Number buttons.

3 Enter a new password.

4 Enter the same password again to confirm.

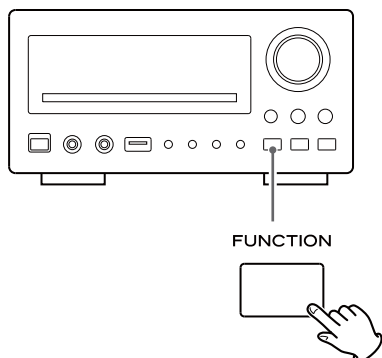
5 Press the ENTER button.

Note that you will need your password to change the level of control in the future as well as to temporarily unlock discs for playback.

If you forget your password, use 2580.

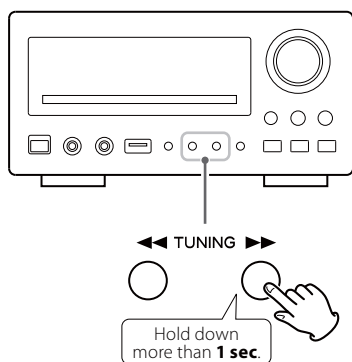
Listening to the FM Radio

1 Select "FM Radio" using the FUNCTION button.



- You can also select "FM Radio" by pressing the FM button on the remote control unit.

2 Hold down the TUNING (◀▶) button for more than 1 seconds to select the station you want to listen to (Auto selection).



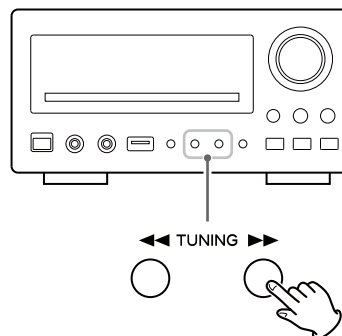
The unit starts searching for a station.

When a station is tuned in, the tuning process will stop automatically.

Repeat this step until the station you want to listen to is found.

- If you want to stop the tuning process, press the TUNING button.

Selecting stations which cannot be tuned automatically (Manual selection)

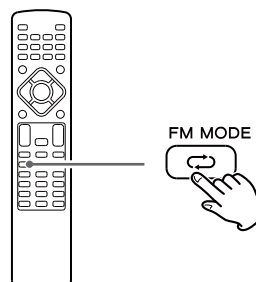


When the TUNING button is pressed momentarily, the frequency changes by a fixed step.

Press the TUNING button repeatedly until the station you want to listen to is found.

FM MODE

Pressing this button alternates between Auto (Stereo) mode and Mono mode.



Auto Mode

FM stereo broadcasts are received in stereo.

Mono Mode

To compensate for weak FM stereo reception, select this mode. Reception will now be forced to monaural, reducing unwanted noise.

If the reception is poor

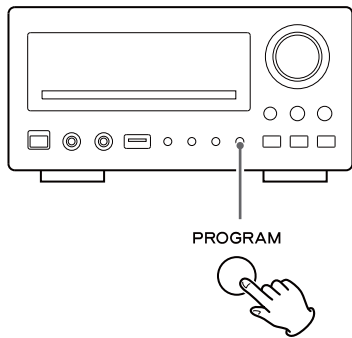
For the best reception, rotate the antenna until you get stations clearly.

Preset Tuning

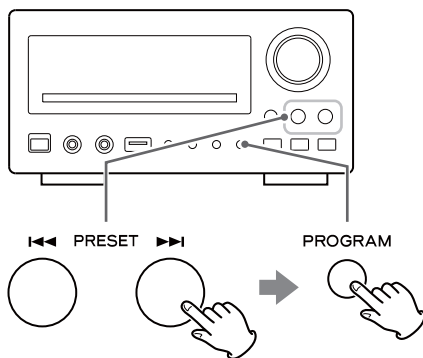
You can store up to 20 FM stations.

1 Tune in to a station you want to listen to (see previous page).

2 Press the PROGRAM button.



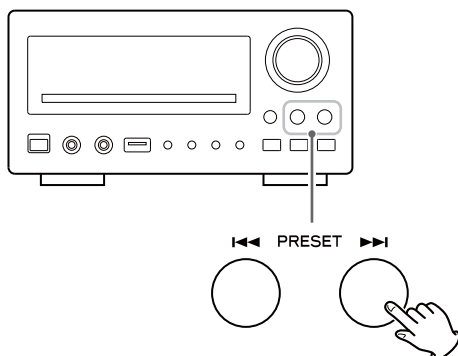
3 Select a preset channel to store the station using the PRESET buttons, and then press the PROGRAM button again.



The station is stored.

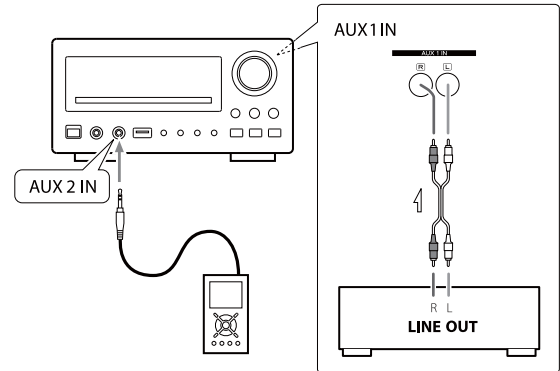
How to select preset stations

Select a preset channel using the PRESET buttons.



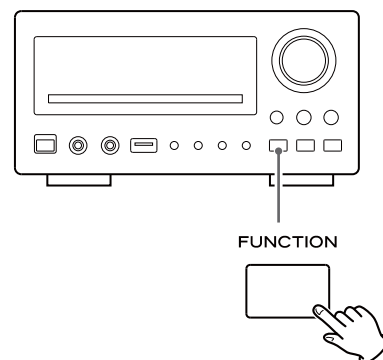
Listening to an External Source

1 Connect a cassette tape deck etc. to AUX 1 IN jack of the MC-DV600 using commercially-available RCA cables. Or Connect the PHONES jack or audio output jack of a portable audio player to the AUX 2 IN jack of the MC-DV600.



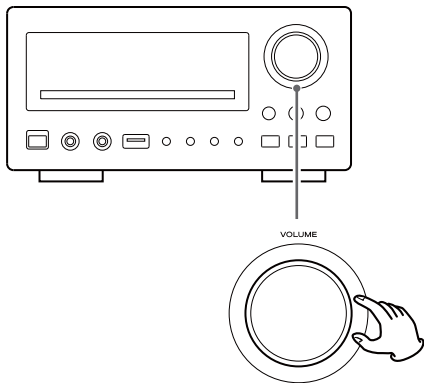
- When you connect the portable audio player to AUX 2 IN jack of the MC-DV600, use a commercially available stereo mini plug cable.

2 Press the FUNCTION button to select "AUX1 Source" or "AUX2 Source".



- You can also select "AUX1 Source" or "AUX2 Source" by pressing the AUX button on the remote control unit once or twice.

3 Play the source, and adjust the volume using the VOLUME knob of the MC-DV600 and of the audio player.



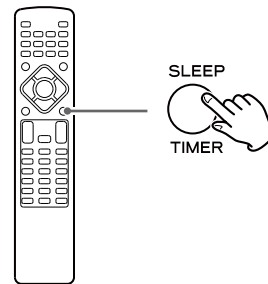
When using the PHONES jack of your mini player, you must adjust the volume of the mini-player or you may hear no sound from your MC-DV600.

- Turning the volume of the mini player up too high may cause the sound from your MC-DV600 to be distorted. If this is the case, reduce the volume of the mini player until the distortion stops and then adjust the volume level of the MC-DV600 to a comfortable listening level.

Sleep Timer

The power can be switched off after a specified amount of time.

Press the SLEEP button repeatedly until desired time appears on the display.



SLEEP-10 90 (10 minutes interval)

The power will be switched off 90 (80 10) minutes later.

SLEEP OFF

The sleep timer is off.

- If you want to check the remaining time, press the SLEEP button once. The remaining time will be displayed for 3 seconds, and then return to the normal display.

Wake Up Timer

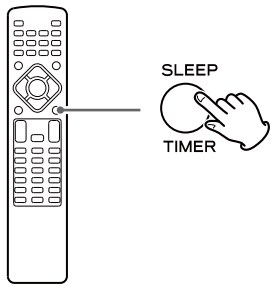
The unit can be programmed to turn on at a specified time.

- Adjust the clock before setting the timer (page 19).

1 If the unit is on, press the **STANDBY/ON** button to turn it off (standby).

2 Press the **TIMER** button.

- Press the **TIMER** button twice if the unit is in ECO Power Standby mode (page 20).

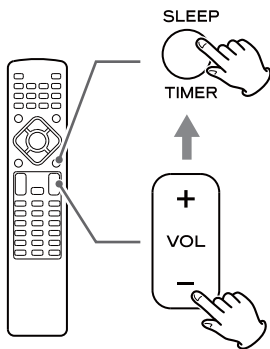


"TIMER SET" appears on the display, and the "hour" value starts blinking.



- When no button is pressed for 10 seconds, the timer setting mode will be cancelled.

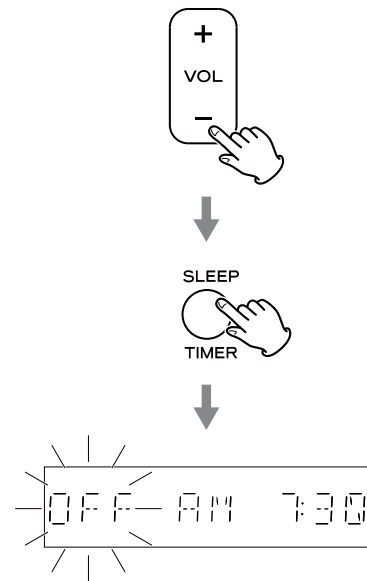
3 Press the **Volume (+ or -)** button to set the start time (hour), and then press the **TIMER** button.



The "minutes" value starts blinking.

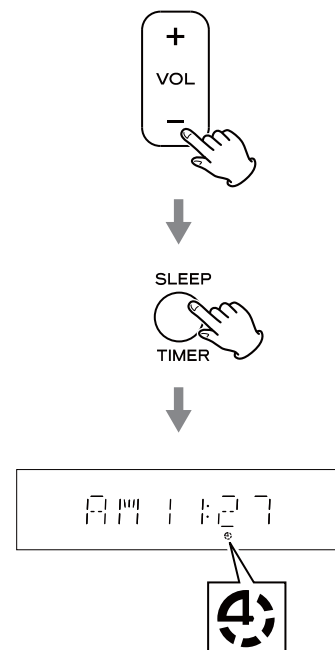


4 Press the **Volume (+ or -)** button to set the start time (minute), and then press the **TIMER** button.



"OFF" starts blinking.

5 Press the **Volume (+ or -)** button to turn On or Off the timer function, and then press the **TIMER** button.



Select "ON" to turn the timer function on.
The **TIMER** indicator (Ⓢ) appears on the display.

When you do not use the timer, select "OFF". (The **TIMER indicator disappears from the display.)**

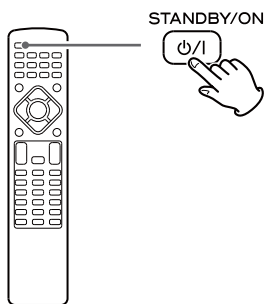
6 Turn the unit on and prepare the source.

To play a disc, select "DISC Source" using the FUNCTION button and set a disc.

To play an USB memory device, select "USB Source" using the FUNCTION button and set an USB memory device.

To listen to the FM, select "FM Radio" using the FUNCTION button and tune in to a station.

7 Press the STANDBY/ON button to turn the unit off (standby).



The clock and the TIMER indicator (🕒) are displayed.

- The unit will turn on at the specified time every day.
- The unit turns on with the source that was last selected.

Do not forget to turn the unit off (standby), or the timer will not work.

If the timer reaches the timer-on time, the unit is set to "SLEEP-60" automatically and the power will be switched off (standby) 60 minutes later.

If you want to listen continuously, press the SLEEP button repeatedly to select "SLEEP OFF" after reaches the timer-on-time.

To cancel the Wake Up Timer

In standby mode, press the TIMER button repeatedly until the "ON" blinks on the display. Then set the Wake Up Timer to "OFF" by pressing the VOL+ or VOL- button and the TIMER button (the Wake Up Timer will be cancelled).

Unplugging the unit also cancels the Wake Up Timer.

Troubleshooting(1)

If you have problems with your system, look through this chart and see if you can solve the problem yourself before calling your dealer or TEAC service center.

General

No power.

- ➔ Check the connection to the AC power supply. Check and make sure the AC source is not a switched outlet and that, if it is, the switch is turned on. Make sure there is power to the AC outlet by plugging another item such as a lamp or fan.
- ➔ Press the STANDBY/ON button to turn the unit on.

Remote control does not work.

- ➔ Press the STANDBY/ON button to turn the unit on.
- ➔ If the batteries are dead, change the batteries.
- ➔ Use remote control unit within the range (16 ft/5 m) and point at the front panel.
- ➔ Clear obstacles between the remote control unit and the main unit.
- ➔ If a strong light is near the unit, turn it off.

Severe hum or noise is heard.

- ➔ Place the unit as far away from a TV as possible.
- ➔ Make sure the line cords and speaker cables are as far away from the AC supply as possible.

DISC/USB

Will not play.

- ➔ Reload the disc with the label side UP.
- ➔ Use a playable disc (page 6).
- ➔ If the disc is dirty, clean the surface of the disc.
- ➔ A blank disc has been loaded. Load a prerecorded disc.
- ➔ Check the region code of the DVD (page 6).
- ➔ If the unit is condensed, leave the unit for one or two hours with the power turned on (page 5).

PROHIBIT icon "⊘" appears on the screen.

- ➔ The operation is not permitted by the disc or the unit.
- ➔ Note that during playback of a title part (cautions, software maker's logo, etc.), most operations are prohibited by the disc.
- ➔ If another operation is still in process, wait a moment and try again.

Cannot access some setup menu items.

- ➔ Although it is possible to enter the setup screen while playback is continuing (or in resume mode), not all menu functions will be available. Expand the number of available functions by pressing the Stop (■) button twice.

Scanning stops.

- ➔ Scanning does not work within menus.

Sound skips.

- ➔ Place the unit on a stable place to avoid vibration and shock.
- ➔ If the disc is dirty, clean the surface of the disc.
- ➔ Do not use scratched, damaged or warped discs.

Troubleshooting(2)

There is no sound or only a very low-level sound is heard.

- Adjust the volume.
- Check the connection to the speakers.
- Check the DIGITAL AUDIO SETUP (DIGITAL OUTPUT) (page 35).
- The sound is muted during pause and fast forward/reverse. Press the Play/Pause (▶/||) button to resume normal playback.

No digital audio output.

- Check that the DIGITAL AUDIO SETUP (DIGITAL OUTPUT) is set to "ALL" or "PCM only" (page 35).

Digital audio recording is not possible on another device.

- Check that the DIGITAL AUDIO SETUP (DIGITAL OUTPUT) setting is set to "PCM only" (page 35).
- Copy-prohibit material cannot be copied digitally.

No picture/distorted picture

- Check the connection to the TV (monitor)
- Check the operating instructions for the TV (monitor) to make sure that you have the right input selected, etc.
- If you are using a HDMI connection, make sure it is configured correctly (page 37).
- When your TV/monitor is not compatible with Progressive scan, never set the TV MODE setting to "PROGRESSIVE" (page 36).

Picture noise.

- If video from this system has to go through your VCR to get to your TV, the copy-protection applied to some DVD programmes could affect picture quality. Please connect the unit directly to your TV.

The image is distorted or monochromatic.

- Make sure that the PAL-NTSC setting matches the TV/monitor (page 37).
- Adjust the aspect ratio to correspond to the TV/monitor in use (page 34).

The aspect ratio of the screen cannot be changed.

- The aspect ratio might be fixed by the disc.

Picture and sound do not match up.

- With some TV sets there may be a short pause from when the video signal is received until the image appears. If the sound from the speaker does not match the TV image, minimize the volume level of the MC-DV600 and output the sound from the TV.
- Try to correct the picture and sound sync problem using the procedure described on page 35 "AUDIO SYNC".

FM tuner

Cannot listen to any station, or signal is too weak.

- Tune in the station properly.
- Check the antenna connection and reconnect it securely.
- Rotate or extend the antenna for the best reception position.

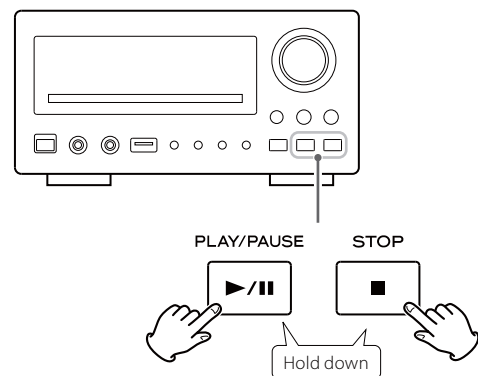
Though the broadcast is stereo, it sounds monaural.

- Press the FM MODE button (page 39).

If normal operation cannot be obtained, unplug the power cord from the outlet and plug it again. This resets the internal micro-computer which can be disturbed during electrical storms, power interruptions, etc.

If unplugging the power cord does not solve the problem, try the following procedure to reset the internal micro-computer.

1. Turn the unit on.
2. Press the Stop (■) button while holding down the Play/Pause (▶/||) button.



3. Release the Stop (■) button when "MC-DV600**" appears on the display.
4. Release the Play/Pause (▶/||) button.
5. Press the Stop (■) button.

Specifications

DVD player

Pickup Semiconductor laser, Wave length 650/790 nm
Signal system NTSC/PAL
Video signal horizontal resolution More than 500 lines (DVD)
Video signal-to noise ratio More than 50 dB (DVD)
Audio frequency response 50 Hz to 20 kHz (+1 / -3 dB)
Audio signal-to-noise ratio 65 dB
Dynamic range 80 dB

Video output

Output level 1 Vp-p (75 Ω)
Jacks RCA jack

Component video output (Y, C_B/P_B, C_R/P_R)

Y-Output level 1.0 Vp-p (75 Ω)
C_B/P_B, C_R/P_R-output level 0.7 Vp-p (75 Ω)
Jacks RCA jacks

HDMI output

Jack HDMI 19 pin (version 1.2a)

Amplifier

Output power (main unit)
(Stereo, EIAJ, 20 Hz to 20 kHz, 4 Ω) 20 W + 20 W
(Stereo, 1 % THD, 20 Hz to 20 kHz, 4 Ω) 10 W + 10 W

Output power (subwoofer)
(10 % THD, 6 Ω) 50 W
Total harmonic distortion 0.7 % (at 5 W, 1 kHz, 4 Ω)
Audio input sensitivity/impedance LINE: 600 mV/47 kΩ
Output level/impedance (LINE OUT) 1000 mV / 10 kΩ
Frequency response 20 Hz to 20 kHz, +0 / -3 dB
Signal-to-noise ratio 90 dB (IHF-A)

FM tuner section (without notes 100.1 MHz, 65 dBf)

Tuning range 87.5 MHz to 108.0 MHz (100 kHz steps)
Total harmonic distortion (1 kHz) Mono: 1 %
Stereo: 1.5 %
Frequency response 40 Hz to 10 kHz
Stereo separation (1 kHz) 35 dB
Signal-to-noise ratio Mono: 55 dB
Stereo: 46 dB

General

Power requirements AC 120 V, 60 Hz
Power consumption 50 W (STANDBY: 1 W)
Dimensions (W x H x D)
8 1/2" x 4 3/8" x 13 5/8" (215 x 110 x 345 mm)
Weight (net) 6 1/10 lb (2.75 kg)

L & R speakers

Type 2-way bass-reflex
Unit
Woofer 3 1/2" (88 mm)
Tweeter 1 3/16" (30 mm)
Impedance 4 Ω
Max Input capacity 25 W
Dimensions (W x H x D)
5 1/2" x 8 11/16" x 6 3/8" (140 x 220 x 162 mm)
Weight (net) 3 1/2 lb (1.6 kg)
Speaker cable 4 ft 11" (1.5 m)

Subwoofer

Type Bass-reflex
Unit 5" (127 mm)
Impedance 6 Ω
Max Input capacity 50 W
Dimensions (W x H x D)
6 5/16" x 9 13/16" x 9 13/16" (160 x 250 x 250 mm)
Weight (net) 6 3/16 lb (2.8 kg)
Speaker cable 9 ft 10" (3.0 m)

Standard Accessories

Speaker x 2
Subwoofer x 1
FM antenna x 1
Remote control unit (RC-1271) x 1
Batteries (AAA, R03, UM-4) x 2
RCA video cable x 1
Owner's manual (this document) x 1
Warranty card x 1

- Design and specifications are subject to change without notice.
- Weight and dimensions are approximate.
- Illustrations may differ slightly from production models.

TEAC

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TEAC CANADA LTD.	5939 Wallace Street, Mississauga, Ontario L4Z 1Z8, Canada Phone: (905) 890-8008
TEAC MEXICO, S.A. DE C.V.	Río Churubusco 364, Colonia Del Carmen, Delegación Coyoacán, CP 04100, México DF, México Phone: (5255)5010-6000
TEAC UK LTD.	Suites 19 & 20, Building 6, Croxley Green Business Park, Hatters Lane, Watford, Hertfordshire, WD18 8TE, U.K. Phone: (0845) 130-2511
TEAC EUROPE GMBH	Bahnstraße 12, D-65205 Wiesbaden-Erbenheim, Deutschland Phone: 0611-71580

This appliance has a serial number located on the rear panel. Please record the serial number and retain it for your records.

Model name: MC-DV600 Serial number _____

0910·M-1647A

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