Integra

AV Receiver

DTR-5.2

Instruction Manual

Thank you for purchasing the Integra AV Receiver. Please read this manual thoroughly before making connections and plugging in the unit. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new AV Receiver. Please retain this manual for future reference.

Contents

Important Safeguards

1. **Read Instructions** – All the safety and operating instructions should be read before the appliance is operated.
2. **Retain Instructions** – The safety and operating instructions should be retained for future reference.
3. **Heed Warnings** – All warnings on the appliance and in the operating instructions should be adhered to.
4. **Follow Instructions** – All operating and use instructions should be followed.
5. **Cleaning** – Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only as recommended by the manufacturer.
6. **Attachments** – Do not use attachments not recommended by the appliance manufacturer as they may cause hazards.
7. **Water and Moisture** – Do not use the appliance near water –for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
8. **Accessories** – Do not place the appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.

PORTABLE CART WARNING

S3125A

9. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
10. **Ventilation** – Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface. The appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 20 cm (8 in.) and an opening behind the appliance.
11. **Power Sources** – The appliance should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
12. **Grounding or Polarization** – The appliance 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.
13. **Power-Cord Protection** – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. **Outdoor Antenna Grounding** – If an outside antenna or cable system is connected to the appliance, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure 1.
15. **Lightning** – For added protection for the appliance during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the appliance due to lightning and power-line surges.
16. **Power Lines** – An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
17. **Overloading** – Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock.
18. **Object and Liquid Entry** – Never push objects of any kind into the appliance through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the appliance.
19. **Servicing** – Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
20. **Damage Requiring Service** – Unplug the appliance form the wall outlet and refer servicing to qualified service personnel under the following conditions:
    A. When the power-supply cord or plug is damaged,
    B. If liquid has been spilled, or objects have fallen into the appliance,
    C. If the appliance has been exposed to rain or water,
    D. If the appliance does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the appliance to its normal operation,
    E. If the appliance has been dropped or damaged in any way, and
    F. When the appliance exhibits a distinct change in performance – this indicates a need for service.

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21. **Replacement Parts** – When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

22. **Safety Check** – Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operation condition.

23. **Wall or Ceiling Mounting** – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.

24. **Heat** – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

FIGURE 1:
EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70

ANTENNA LEAD IN WIRE
GROUND CLAMP
ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)
ELECTRIC SERVICE EQUIPMENT
GROUNDING CONDUCTORS (NEC SECTION 810-21)
GROUND CLAMPS
NEC – NATIONAL ELECTRICAL CODE
POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H)
S2898A

Precautions

1. Warranty Claim
You can find the serial number on the rear panel of this unit. In case of warranty claim, please report this number.

2. Recording Copyright
Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder.

3. AC Fuse
The fuse is located inside the chassis and is not user-serviceable. If power does not come on, contact your Integra/Onkyo authorized service station.

4. Care
From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering.

5. Power

WARNING
BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.

The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (AC 120 V, 60 Hz) written on the rear panel.

For U.S. models

Note to CATV system installer:
This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

FCC Information for User

CAUTION:
The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
NOTE:
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:
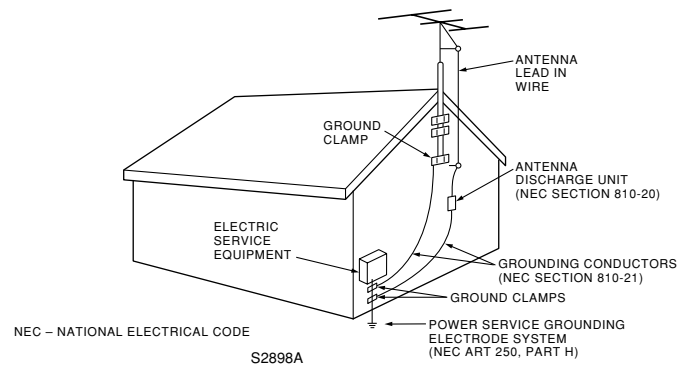
• Reorient or relocate the receiving antenna.
• Increase the separation between the equipment and receiver.
• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
• Consult the dealer or an experienced radio/TV technician for help.

For Canadian models

NOTE:
THIS CLASS B DIGITAL APPARATUS COMPLIES WITH CANADIAN ICES-003.

For models having a power cord with a polarized plug:

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

Modele pour les Canadien

REMARQUE:
CET APPAREIL NUMÉRIQUE DE LA CLASSE B EST CONFORME À LA NORME NMB-003 DU CANADA.

Sur les modèles dont la fiche est polarisée:

ATTENTION: POUR ÉVITER LES CHOCS ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

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Features

- **75 Watts minimum of continuous RMS power to each of the five channels into 8 Ω from 20 Hz to 20 kHz with no more than 0.08% THD (FTC rating)**

- **Wide Range Amplifier Technology (WRAT)**

- **Extended Frequency Response (10 Hz to 100 kHz)**

- **Optimum Gain Volume Circuitry**

- **Dolby®* Digital, DTS®, Dolby Pro Logic II decoding**

- **A-Form Listening Mode Memory**

- **Non-Scaling Configuration**

- **Cinema Re-EQ™**

- **Late night mode (high, low, off)**

- **5.1-Channel input**

- **4 Assignable digital inputs (2 coaxial, 2 optical)**

- **Smart Scan Navigator with LEDs**

- **12V DC Trigger**

- **IR IN/OUT Terminals**

- **40 FM/AM random presets**

- **IntelliVolume**

- **Powerful backlit/ programmed/learning remote with macros and mode-key LEDs**

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• Manufactured under license from Digital Theater Systems, Inc. US Pat. No.5,451,942 and other worldwide patents issues and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.© 1996 Digital Theater Systems, Inc. All rights reserved.
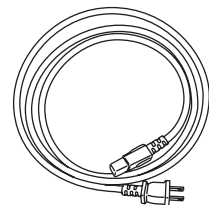
Supplied accessories

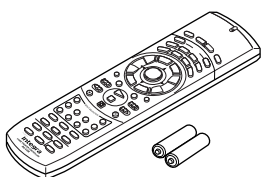Check that the following accessories are supplied with the DTR-5.2.
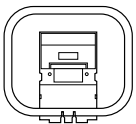
**AM loop antenna × 1**
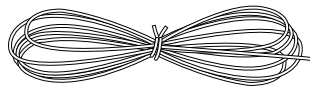
FM indoor antenna × 1

Power cord × 1

Remote controller × 1
Batteries (AA, R6 or UM-3) × 2

Before using this unit

1. **Remove the battery compartment cover by pressing and sliding the cover.**

2. **Insert two AA (R6 or UM-3) batteries into the battery compartment. Carefully follow the polarity diagram (positive (+) and negative (–) symbols) inside the battery compartment.**

3. **After batteries are installed and seated correctly, replace the compartment cover.**
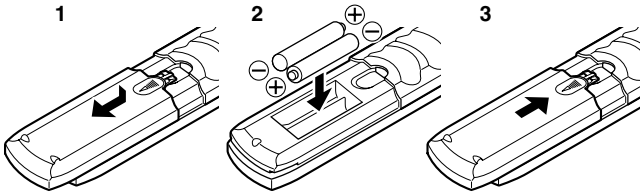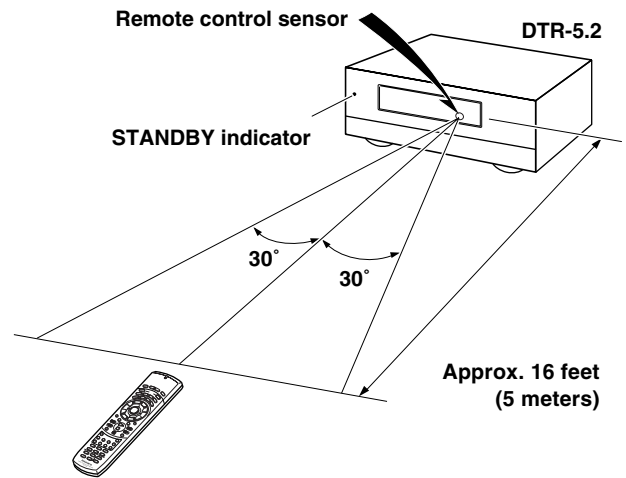

Notes:
- Do not mix new batteries with old batteries or different kinds of batteries.
- To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time.
- Remove dead batteries immediately to avoid damage from corrosion. If the remote controller does not operate smoothly, replace both the batteries at the same time.
- The life of the batteries supplied is about six months but this will vary depending on usage.

Using the remote controller

Point the remote controller toward the remote control sensor. The STANDBY indicator lights up when the unit receives a signal from the remote controller.

Notes:
- Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller.
- Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference.
- Do not put objects on the remote controller. Its buttons may be pressed by mistake and drain the batteries.
- Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation.
- If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate.

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Front panel facilities

Here is an explanation of the controls and displays on the front panel of the DTR-5.2.

Front panel

Front panel display

Speakers A/B indicators

Listening mode or digital input format indicators

Tuning indicators

SPEAKERS	SLEEP	MPEG	◻◻ DIGITAL	DTS	DSP	STEREO	▶ TUNED ◀	FM MUTE
A B		PCM DIGITAL	◻◻ PRO LOGIC Ⅱ			DIRECT	FM STEREO	MEMORY

ft
ch
dB
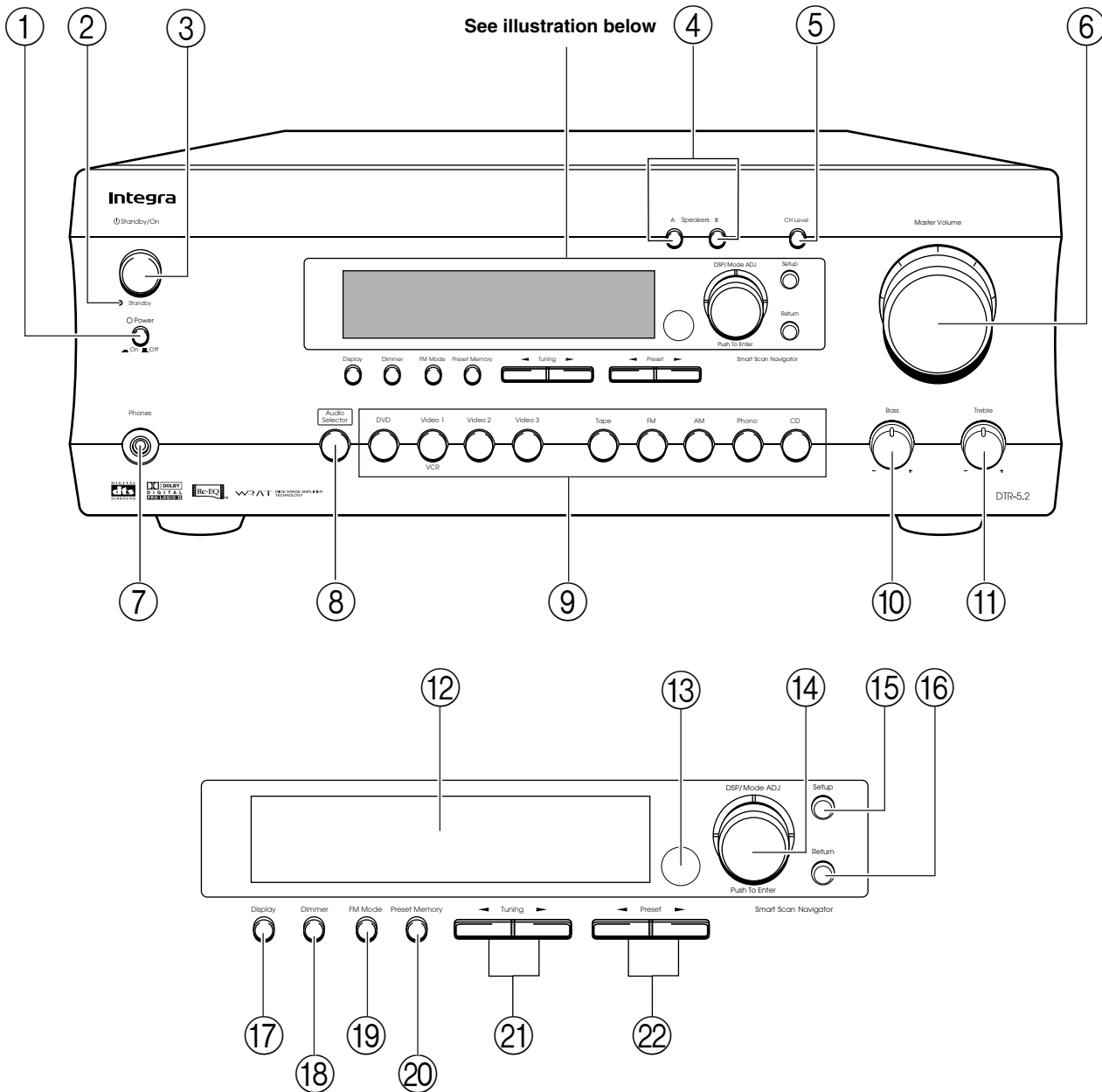
Sleep indicator   **Multi function display**
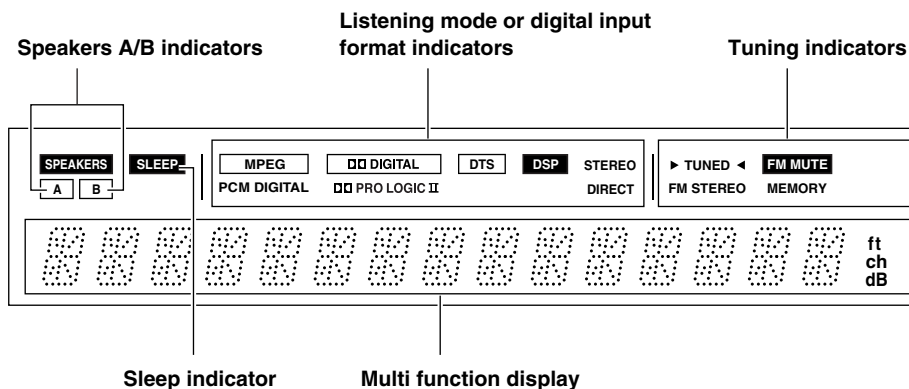
Front panel facilities

For operational instructions, see page indicated in brackets [ ].

① **Power switch [18]**

Turns on and off the main power supply for the DTR-5.2.

② **Standby indicator [18]**

Lights when the DTR-5.2 is in the standby state and flashes when a signal is received from the remote controller.

③ **Standby/On button [18]**

Press to turn on the DTR-5.2 when in the standby state. Press again to return the DTR-5.2 to the standby state.

④ **Speakers A/B buttons [25, 26]**

Press these buttons to turn on and off speakers systems A and B.

⑤ **CH Level button [27]**

Press to select the channel whose level is to be adjusted.

⑥ **Master Volume dial [25]**

The Master Volume dial is used to control the volume.

⑦ **Phones jack**

To listen with headphones, plug a pair headphones with a standard stereo plug into the Phones jack on the DTR-5.2 front panel.
When you connect headphones, the unit will enter STEREO mode automatically and no sound will be heard from the speakers. If you have selected MULTI CH INPUT, you will hear sound only from the FRONT L and R channels. Note that the volume level for the headphones is adjustable.

⑧ **Audio Selector button [27]**

This button is used to select the type of audio input signal. Each time pressed, the setting cycles from "AUTO" → "MULTICH" → "ANALOG" and back.

⑨ **Input source buttons (DVD, Video 1–3, Tape, FM, AM, Phono, and CD) [25]**

These buttons are used to select the input source.

⑩ **Bass dial [26]**

Boosts or cuts the bass response. Bass adjustment is effective only for the front left and right speakers and headphones.

⑪ **Treble dial [26]**

Boosts or cuts the treble response. Treble adjustment is effective only for the front left and right speakers and headphones.

⑫ **Front display**

⑬ **Remote control sensor [5]**

⑭ **Smart Scan Navigator jog dial and indicators [21, 22, 24-27, 29-32]**

Used to make settings in the setup display, change listening mode settings, and more.

⑮ **Setup button [21, 22, 29-32]**

Press to enter and exit the setup mode.

⑯ **Return button [21, 22, 29-32]**

Press to move up one level in the setup mode.

⑰ **Display button [26]**

The Display button is used to display information about the current input source signal. Each time you press the display button, the screen changes to show you different information concerning the input signal.

⑱ **Dimmer button**

Press to set the brightness of the front display. There are 3 settings available: normal, dark, and very dark.

⑲ **FM Mode button [23]**

When there is too much noise in the stereo reception of an FM broadcast, press to turn off the FM MUTE function.

⑳ **Preset Memory button [24]**

This button is used to assign the radio station that is currently tuned in to a preset channel or delete a previously preset station.

㉑ **Tuning ◄ / ► buttons [23]**

Use these buttons to change the tuner frequency. The tuner frequency is displayed in the front display and it can be changed in 50 kHz increments for FM and 10 kHz increments for AM.
When FM is selected, you can hold down one of the tuning buttons and then release it to activate the auto-search feature. It will search for a station in the direction of the button you pressed and stop when it tunes into one.

㉒ **Preset ◄ / ► buttons [24]**

When AM or FM is selected as the input source, press one of these buttons to jump to a radio station that you preset using the Preset Memory button. Pressing the right button moves from the most recently preset station to older ones, and pressing the left button moves in the reverse order.

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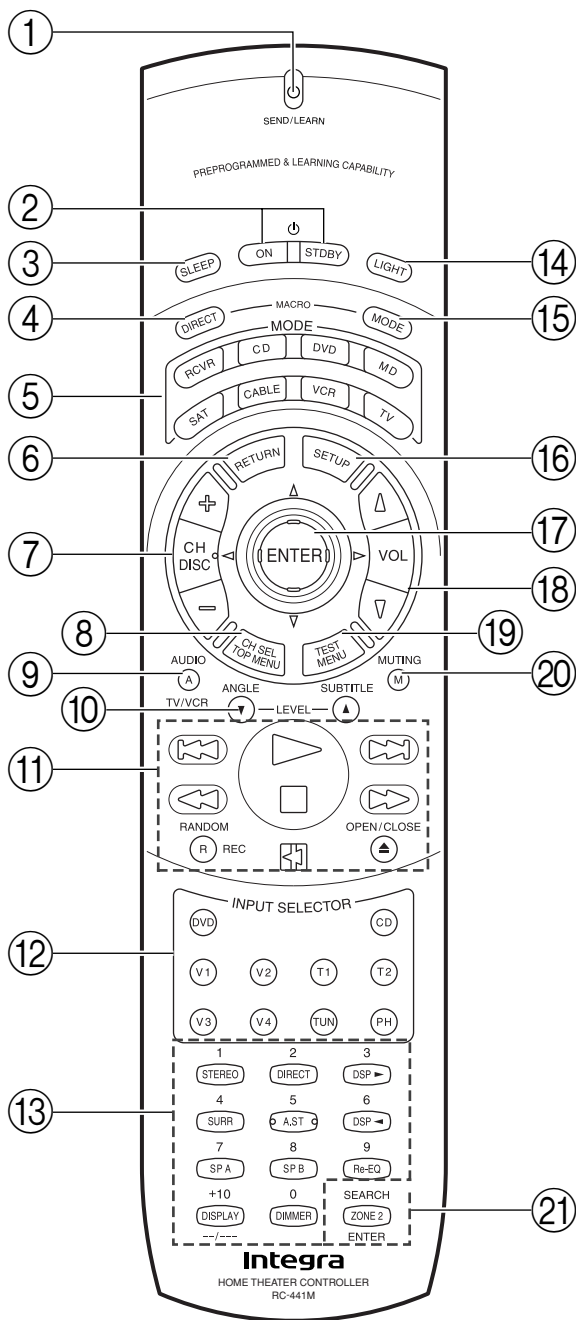
Remote controller

① SEND/LEARN indicator

This indicator acts as a guide when commands are programmed into or sent by the remote controller. It also warns the user when an error is made or battery power is low.

② ON/STDBY button [18]

ON: Turns on the DTR-5.2.
STDBY: Places the DTR-5.2 in the standby state.
Be aware that pressing the STDBY button only places the DTR-5.2 in standby and does not turn the power completely off.

③ SLEEP button [26]

Sets the sleep function.
The SLEEP button enables you to set the DTR-5.2 to turn off automatically after a specified time period.

④ DIRECT MACRO button [46]

For executing and programming the Direct Macro function.

⑤ MODE buttons and indicators [40-47]

For selecting the component to be operated by the remote controller. When a MODE button is pressed, it will light green for 8 seconds. The selected MODE button will also light whenever any other operation button is pressed to tell you which mode the remote controller is in.

⑥ RETURN button [21, 22, 29-32]

Press to move up one level in the setup mode.

⑦ CH/DISC +/− button [35, 36]

When in the RCVR mode, for selecting a tuner preset channel.
For selecting the disc to be played back for components with disc changers when in the DVD or CD modes.

⑧ CH SEL/TOP MENU button [9, 36]

CH SEL: For selecting the speaker for level adjustment when in the RCVR mode. Used together with the LEVEL ▲/▼ buttons.
TOP MENU: When in the DVD mode, for displaying the menu screen(s) recorded on DVD media.

⑨ AUDIO/A/TV/VCR button [27, 41]

AUDIO: For selecting the audio input signal. The setting changes from "AUTO" to "MULTICH" to "ANALOG" and back each time this button is pressed.
TV/VCR: Must be preprogrammed for use in the TV and VCR modes.

⑩ LEVEL ▼/ANGLE and LEVEL ▲/SUBTITLE buttons

LEVEL ▼/▲: Select the speaker whose volume is to be adjusted using the CH SEL button and adjust the volume using the LEVEL ▲/▼ buttons in the RCVR mode. [9, 27]
ANGLE: When in the DVD mode, for selecting a camera angle when a DVD-Video is recorded with multiple angle playback. [36]
SUBTITLE: When in the DVD mode, for selecting one of the subtitle languages recorded on a DVD-Video. [36]

⑪ CD/TAPE/DVD/MD operation buttons [34-37]

For operating Onkyo components connected to the DTR-5.2.

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Remote controller

⑫ **INPUT SELECTOR buttons [25]**

Selects an input source.

Same as the input selector buttons on front panel of the DTR-5.2. The input source for each buttons is given here. DVD:DVD, CD:CD, V1:VIDEO1, V2:VIDEO2, V3:VIDEO3, V4:Not used with the DTR-5.2, T1:TAPE, T2:Not used with the DTR-5.2, TUN:FM/AM, PH:PHONO.

⑬ **Numeric key/Listening mode selector/SP A, B/ Re-EQ/DISPLAY/DIMMER buttons**

1 to 9, +10, --/---, 0: For entering the number of a track.

STEREO, DIRECT, DSP ◄/►, SURR, A.ST: You can select a listening mode. [25]

  STEREO: Changes the listening mode directly to the Stereo listening mode. If pressed, the listening mode for the selected input source set in the Listening Mode Preset is also changed to the Stereo listening mode.

  SURR (Surround): Changes the listening mode to the surround mode for the current input signal (e.g., Dolby Pro Logic II, Dolby Digital, or DTS). If pressed, the listening mode for the selected input source set in the Listening Mode Preset is also changed to the Surround listening mode.

  For Dolby Pro Logic II, this button also changes the mode between Dolby Pro Logic II Movie and Dolby Pro Logic II Music.

  DIRECT: Changes the listening mode directly to the Direct listening mode. If pressed, the listening mode for the selected input source set in the Listening Mode Preset is also changed to the Direct listening mode.

  A.ST (All Channel Stereo): Changes the listening mode directly to the Stereo listening mode. If pressed, the listening mode for the selected input source set in the Listening Mode Preset is also changed to the All Channel Stereo listening mode.

  DSP ◄/►: Changes the listening mode as shown below.

  Direct ↔ Stereo ↔ Surround ↔ Orchestra ↔ Unplugged ↔ Studio-Mix ↔ TV Logic ↔ All Ch Stereo ↔ Direct.

  If pressed, the listening mode for the selected input source set in the Listening Mode Preset is also changed.

Re-EQ: Depending on the listening mode, you can turn the cinema re-equalization function on or off. [25]

Re-EQ (re-equalization) takes the edginess or "brightness" out of your home cinema sound to compensate for the fact that sound mixed for theaters may sound too bright when played back through speakers in the home environment.

  On: Select to turn on the re-equalization filter.

  Off: Select to turn off the re-equalization filter.

Note:
The Re-EQ function is effective on the Dolby Pro Logic II Movie and Dolby Digital modes.

SP A, SP B: For turning on and off speakers systems A and B. [26]

DISPLAY: For changing the display in the front display. [26]

DIMMER: Adjusts the display brightness.
There are three settings available: normal, dark and very dark.

⑭ **LIGHT button**

For illuminating the buttons of the remote controller.

This is button is useful when using the remote controller in dark locations. When pressed, the buttons on the remote controller light green.

The button for the mode currently selected lights brighter than the rest.

⑮ **MODE MACRO button [45]**

For executing and programming the Macro function.

⑯ **SETUP button [21, 22, 29-32]**

Press to enter and exit the setup mode.

⑰ **ENTER/cursor button [21, 22, 29-32]**

For selecting and entering settings in the setup mode.

⑱ **VOL △/▽ button**

For adjusting the volume.

⑲ **TEST/MENU button**

TEST: Outputs a test tone for setting speaker levels.
Use this button in conjunction with the LEVEL ▲/▼ and CH SEL buttons to calibrate the speakers levels.

  1. Press the TEST button.
     A test sound (pink noise) will be heard from the left front speaker. At this point, it is not necessary to adjust the volume of the test sound.

  2. Press the CH SEL button.
     The test sound will now be heard from a different speaker.

  3. Use the LEVEL ▲/▼ buttons to adjust the volume of the test sound from this speaker to the same level that you heard from the previous speaker.

  4. Repeat the procedure in step 2 and 3 until the volume of the test sound from all speakers is the same level.
     Each time you press the CH SEL button, the test sound will be heard from a different speaker. The speaker order for calibration is front left → center → front right → surround right → surround left → subwoofer.

  5. Press the TEST button to exit the setting.

For a more detailed explanation of how to calibrate the speaker levels, see page 22.

MENU: When in the DVD mode, this button displays the DVD menu.

⑳ **MUTING/M button [26]**

Activates the mute function.

㉑ **ZONE 2/SEARCH/ENTER button**

ZONE 2: Not used with the DTR-5.2.

SEARCH: When in the DVD mode, for finding the specific section on a disc where you want to start playback.

ENTER: When in the MD mode, for confirming the selection.

9

Connections

Here is explanation of how to connect the main components to the DTR-5.2 in the standard manner. There are many ways that any one component can be connected, and it is up to you to decide which method best fits your situation. The directions given here are only one option and should only be thought of as such. It is best to fully understand the nature of each connector and terminal as well as each of your components and their features to ascertain which method of connection is best.

- **Be sure to always refer to the instructions that came with the component that you are connecting.**
- **Do not plug in the power cord until all connections have been made.**
- **For input jacks, red connectors (marked R) are used for the right channel, white connectors (marked L) are used for the left channel, and yellow connectors (marked V) are used for video connection.**
- **Do not bind audio/video connection cables with power cords and speaker cables. Doing so may adversely affect the picture and sound quality.**
- **When using the digital inputs, make sure to also connect the analog connections whenever possible.**

- **Insert all plugs and connectors securely. Improper connections can result in noise, poor performance, or damage to the equipment.**

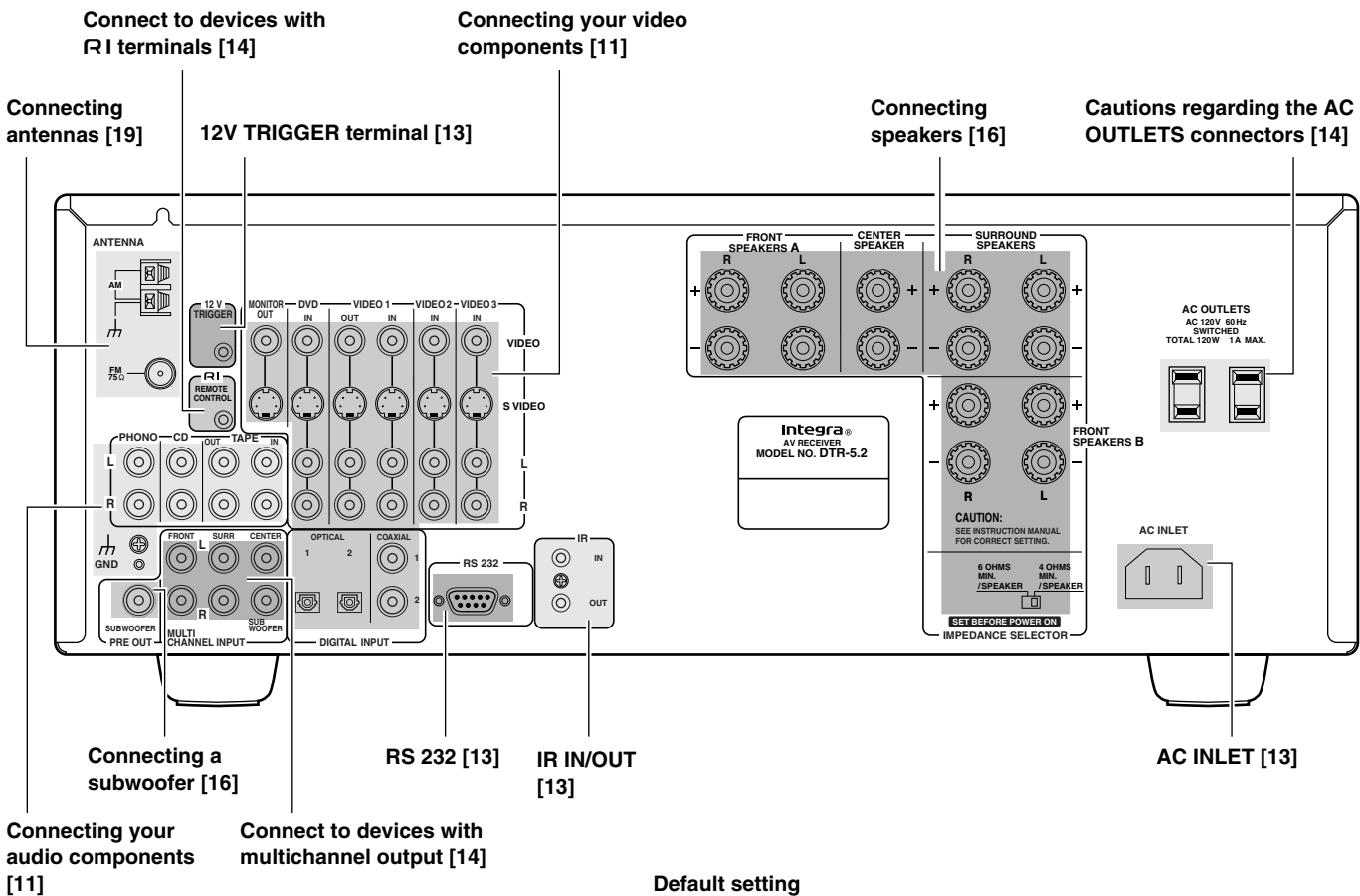

→ **Improper connection**

→ **Inserted completely**
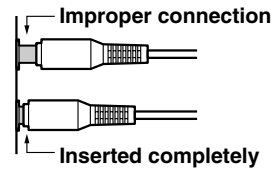
- **When using one of the optical input jacks, remove the protective cap and keep it safely. When the jack is not used, replace the protective cap.**
- **When using an optical input jack, always use an optical fiber cable.**
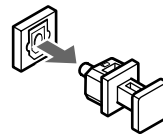
Optical digital input terminal
An optical digital input terminal is equipped with a protection cap. When connecting, remove this cap. When not using, put the cap back on the terminal.

Connect to devices with ℞I **terminals [14]**

Connecting your video components [11]

Connecting antennas [19]

12V TRIGGER terminal [13]

Connecting speakers [16]

Cautions regarding the AC OUTLETS connectors [14]

Connecting a subwoofer [16]

RS 232 [13]

IR IN/OUT [13]

AC INLET [13]

Connecting your audio components [11]

Connect to devices with multichannel output [14]

Default setting

Input source	Digital input	Multichannel
DVD	COAX 1	YES
VIDEO 1	COAX 2	NO
VIDEO 2	----	NO
VIDEO 3	OPT 2	NO
TAPE	----	NO
FM		
AM		
PHONO	----	NO
CD	OPT 1	NO

COAX: Coaxial   OPT: Optical   ----: No setting   ⬉ : Not applicable

Connections

: Signal flow

Audio connection cable

Left (White)   L

Right (Red)   R
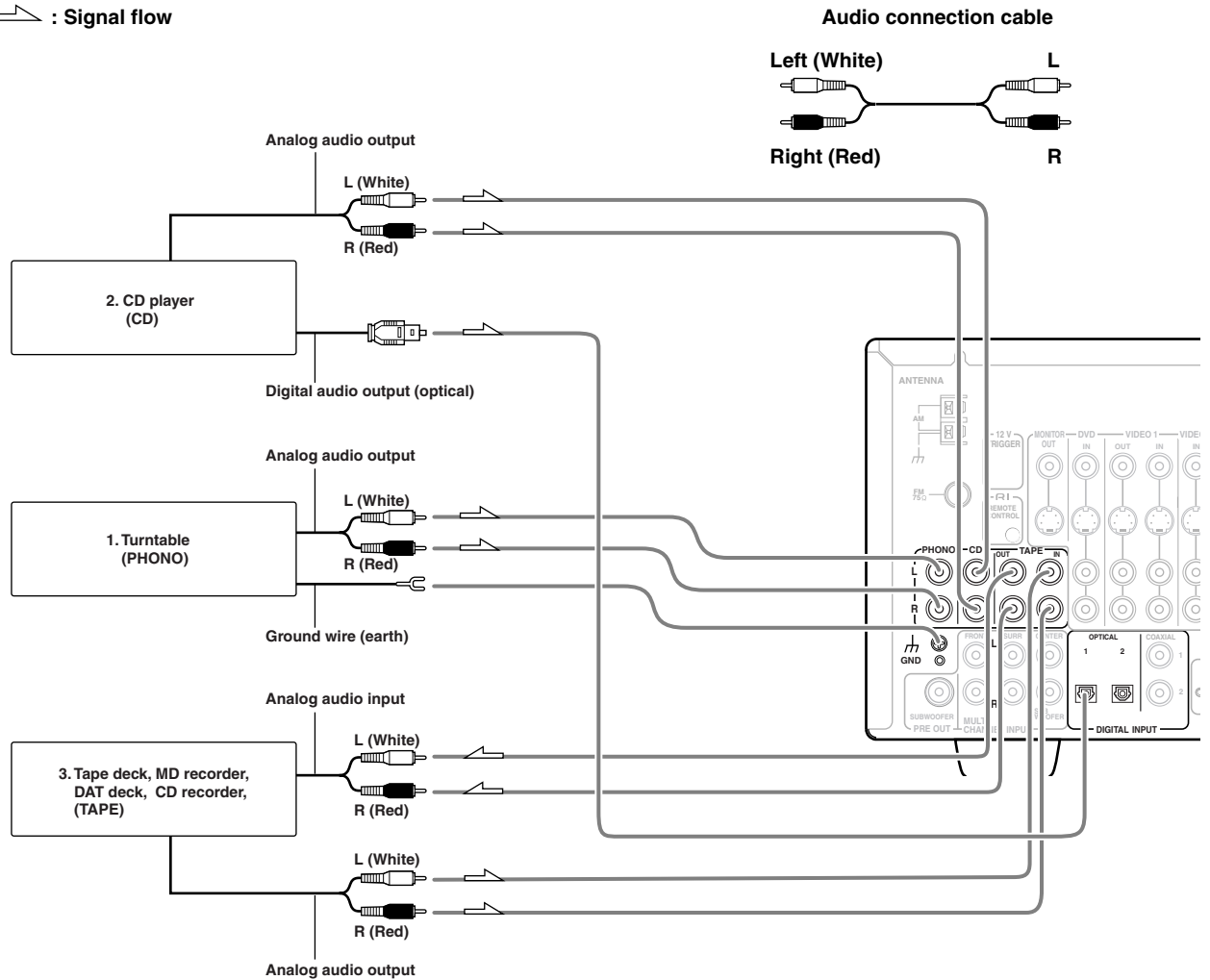
Connecting your audio components

Below is an example of how you can connect your audio components to the DTR-5.2. Refer to the diagram above for the following connection examples.

1. Connecting a turntable (PHONO)

Using an RCA-type audio connection cable, connect the output terminal on the turntable to the PHONO input jacks on the DTR-5.2. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack.

Note:
The DTR-5.2 is designed for use with moving magnet cartridges. For proper operation, connect a ground (or earth) wire to the GND terminal. For some turntables, however, connecting the ground wire may cause increased noise, and in such a case, a ground wire is not necessary and should not be connected.

2. Connecting a compact disc player (CD)

Using an RCA-type audio connection cable, connect the output terminal on the compact disc player to the CD input jacks on the DTR-5.2. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack.

If the compact disc player has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT (COAXIAL) or DIGITAL INPUT (OPTICAL) jack on the DTR-5.2 depending on the type of connector on the compact disc player.

With the initial settings of the DTR-5.2, the CD input source is set for digital input at the OPTICAL 1 jack.

If the digital connection is made at a different jack, this must be changed at the setup menu: Input Setup → Audio Setup → Digital Input (see page 29).

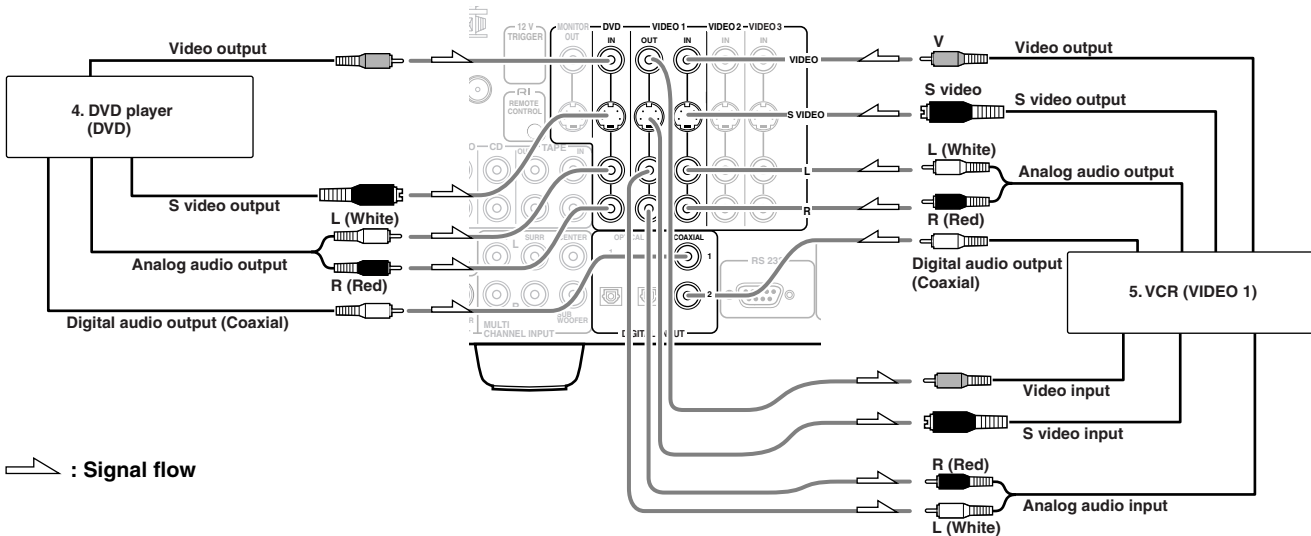### 3. Connecting a cassette tape deck, MD recorder, DAT deck, or CD recorder (TAPE)

Using an RCA-type audio connection cable, connect the output terminals (PLAY) of the device to the TAPE IN jacks on the DTR-5.2 and the input terminals (REC) to the TAPE OUT jacks. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack.

If the device has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT (COAXIAL) or DIGITAL INPUT (OPTICAL) jack on the DTR-5.2 depending on the type of connector on the device.

With the initial settings of the DTR-5.2, the TAPE input source is set for no digital input.
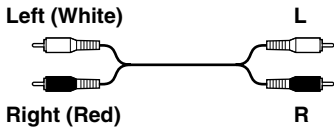
If you connect the device to the DIGITAL INPUT terminal, then this input source must be set for digital input at the setup menu: Input Setup → Audio Setup → Digital Input (see page 29).
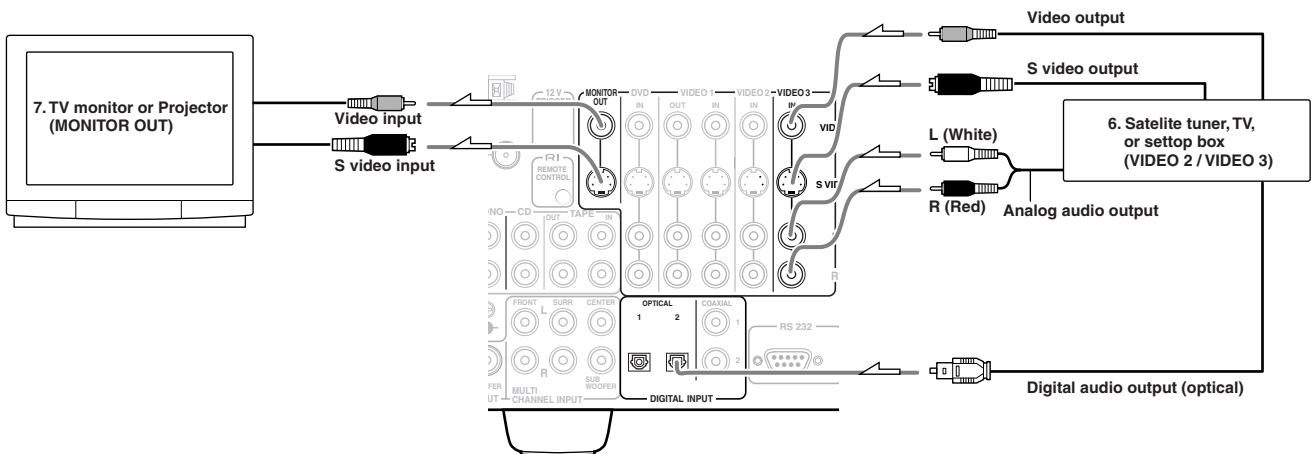
11

Connections

: Signal flow

Audio connection cable

Left (White)   L

Right (Red)   R

Video connection cable

S Video connection cable

Diagram labels:
- 4. DVD player (DVD)
- Video output
- S video output
- L (White)
- Analog audio output
- R (Red)
- Digital audio output (Coaxial)
- V — Video output
- S video — S video output
- L (White) — Analog audio output
- R (Red)
- Digital audio output (Coaxial)
- 5. VCR (VIDEO 1)
- Video input
- S video input
- R (Red)
- Analog audio input
- L (White)
- 7. TV monitor or Projector (MONITOR OUT)
- Video input
- S video input
- Video output
- S video output
- L (White)
- R (Red) — Analog audio output
- 6. Satelite tuner, TV, or settop box (VIDEO 2 / VIDEO 3)
- Digital audio output (optical)

Connecting your video components

Below is an example of how you can connect your video components to the DTR-5.2. Refer to the diagram above for the following connection examples.

The flow of the video signals is as follows:

- The signal that comes in from VIDEO IN is sent to VIDEO OUT.
- The signal that comes in from S VIDEO IN is sent to S VIDEO OUT

4. Connecting a DVD player (DVD)

If the device is equipped with an S video output terminal, connect it to the DVD S VIDEO IN terminal with an S video cable. If it does not have an S video output terminal, connect its video output terminal to the DVD VIDEO IN terminal using an RCA-type video connection cable. You do not need to connect to both the DVD S VIDEO IN and DVD VIDEO IN terminals.

Using an RCA-type audio connection cable, connect the audio output terminal on the device to the audio DVD IN jacks on the DTR-5.2. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack.

If the device has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT (COAXIAL) or DIGITAL INPUT (OPTICAL) jack on the DTR-5.2 depending on the type of connector on the DVD player.

With the initial settings of the DTR-5.2, the DVD input source is set for digital input at the COAXIAL 1 jack.

If the digital connection is made at a different jack, this must be changed at the setup menu: Input Setup → Audio Setup → Digital Input (see page 29).

5. Connecting a video cassette recorder (VIDEO 1)

If the video cassette recorder is equipped with an S video output terminal, connect it to the S VIDEO 1 IN terminal with an S video cable. If it does not have an S video output terminal, connect its video output terminal to the VIDEO 1 IN terminal using an RCA-type video connection cable. You do not need to connect to both the S VIDEO 1 IN and VIDEO 1 IN terminals.

Using an RCA-type audio connection cable, connect the audio output terminal on the video cassette recorder to the same VIDEO 1 IN audio jacks on the DTR-5.2 and audio input terminal to the VIDEO 1 OUT audio jacks. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack.

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Connections

If the device has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT (COAXIAL) or DIGITAL INPUT (OPTICAL) jack on the DTR-5.2 depending on the type of connector on the device.

With the initial settings of the DTR-5.2, the VIDEO 1 input source is set for digital input at the COAXIAL 2 jack.

If the digital connection is made at a different jack, this must be changed at the setup menu: Input Setup → Audio Setup → Digital Input (see page 29).

6. Connecting a satellite tuner, television, or settop box (VIDEO 2/3)

If the device is equipped with an S video output terminal, connect it to the S VIDEO 3 IN terminal with an S video cable. If it does not have an S video output terminal, connect its video output terminal to the VIDEO 3 IN terminal using an RCA-type video connection cable. You do not need to connect to both the S VIDEO 3 IN and VIDEO 3 IN terminals.

Using an RCA-type audio connection cable, connect the audio output terminal on the satellite tuner or television to the same VIDEO 3 IN audio jack on the DTR-5.2. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack.

If the device have a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT (COAXIAL) or DIGITAL INPUT (OPTICAL) jack on the DTR-5.2 depending on the type of connector on the device.

With the initial settings of the DTR-5.2, the VIDEO 3 input source is set for digital input at the OPTICAL 2 jack.

If the digital connection is made at a jack different from the initial settings, this must be changed at the setup menu: Input Setup → Audio Setup → Digital Input (see page 29).

You can also connect the device to the VIDEO 2 IN input jacks on the DTR-5.2 just like you can to the VIDEO 3 IN input jacks.

With the initial settings of the DTR-5.2, the VIDEO 2 input source is set for no digital input.

If you connect the device to the DIGITAL Input terminal, then this input source must be set for digital input at the setup menu: Input Setup → Audio Setup → Digital Input (see page 29).

7. Connecting a television monitor or projector (MONITOR OUT)

If the monitor or projector is equipped with an S video output terminal, connect it to the MONITOR OUT S VIDEO terminal with an S video cable. If it does not have an S video output terminal, connect its video output terminal to the MONITOR OUT VIDEO terminal using an RCA-type video connection cable. You do not need to connect to both the MONITOR OUT S VIDEO and MONITOR OUT VIDEO terminals.

RS 232

The RS 232 port is to be used in conjunction with an external controller to control the operation of the DTR-5.2 by using an external device.

IR IN/OUT

If the DTR-5.2 is located inside a rack or cabinet that will not allow infrared beams to reach the IR sensor, you will need to connect a remote sensor to IR IN input to be able to use the remote controller. Then install the remote sensor in an unblocked location where you can easily point the remote controller.

Using a mini-jack connector, connect the IR emitter to the IR OUT terminal on the DTR-5.2 and then place the IR emitter on the remote sensor of the component or facing it.

AC INLET

Plug the supplied power cord into this AC INLET and then into the power outlet on the wall.

Power cord (supplied)

To an AC wall outlet
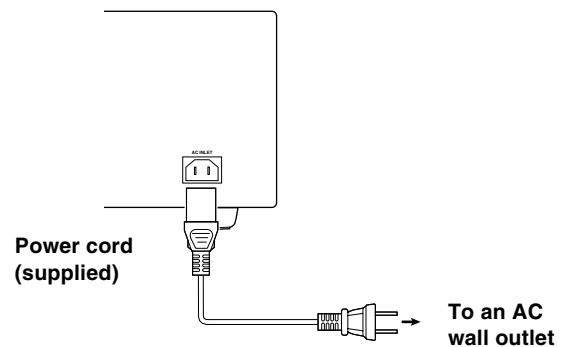
- Do not use a power cord other than the one supplied with the DTR-5.2. The power cord supplied is designed for use with the DTR-5.2 and should not be used with any other adevice.

- Never have the power cord disconnected from the DTR-5.2 while the other end is plugged into the wall outlet. Doing so may cause an electric shock. Always connect by plugging into the wall outlet last and disconnect by unplugging from the wall outlet first.

12V TRIGGER terminal

This terminal is provided so that you can use the operation of the DTR-5.2 control the operation of another externally connected device. Connect the component to this 1/8-inch mini-jack terminal and when the set input source is selected, the device will turn on. Set the 12V TRIGGER terminal using the 12V Trigger setting of the Input Setup [31].

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Connections

Connect to devices with ⟳I terminals

The ⟳I terminal on the DTR-5.2 is for connecting other Integra/ Onkyo components equipped with the same ⟳I terminal. When a component are ⟳I-connected, you can point the remote controller supplied with the DTR-5.2 at the sensor on the DTR-5.2 and operate that component without having to switch remote controllers.

In addition, by connecting components to the ⟳I terminal, you can also perform the system operations given below.

Power on/ready function

When the DTR-5.2 is in the standby state, if an ⟳I-connected component is turned on, then the DTR-5.2 also turns on and the input source selected at the DTR-5.2 automatically switches to that component.
If the power cord for an ⟳I-connected component is connected to the AC OUTLET on the DTR-5.2, or if the DTR-5.2 is turned on, this function will not work.

Direct change function

When the play button is pressed at an ⟳I-connected component, the input source selected at the DTR-5.2 automatically changes to that component.

Power off function

When the DTR-5.2 is placed in the standby state, all ⟳I-connected components are also automatically put into the standby state.

CAUTION

If an MD recorder is connected to the TAPE jack on the DTR-5.2, switch the Input Selector from TAPE to MD (see page 18).
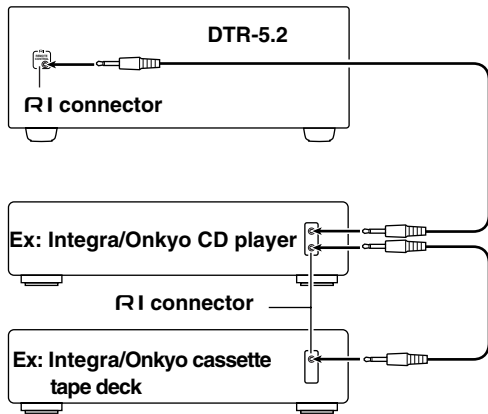
To connect components using the ⟳I terminal, simply connect a remote control cable from this ⟳I terminal to the ⟳I terminal of the other component. An ⟳I remote control cable with a 1/8-inch (3.5-mm) miniature two-conductor plug comes with every cassette tape deck, compact disc player, MD recorder, and DVD player that has an ⟳I terminal.

- For remote control operation, the audio connection cables must also be connected.
- The RC-441M remote controller does not support turntables.
- If a component has two ⟳I terminals, you can use either one to connect to the DTR-5.2. The other one can be used to daisy chain with another component.
- With Integra/Onkyo DVD players, you can enter the pre-program code so that you can operate the DVD player directly with the remote controller without connecting the ⟳I terminals (see page 38).

Connect to devices with multichannel output

By connecting a DVD player, MPEG decoder, or other component that has a multi channel port, you can playback the audio with 5.1 channel output. So, be sure to prepare a cable that can properly connect the DTR-5.2 to the peripheral device.

DTR-5.2 MULTI CHANNEL INPUT
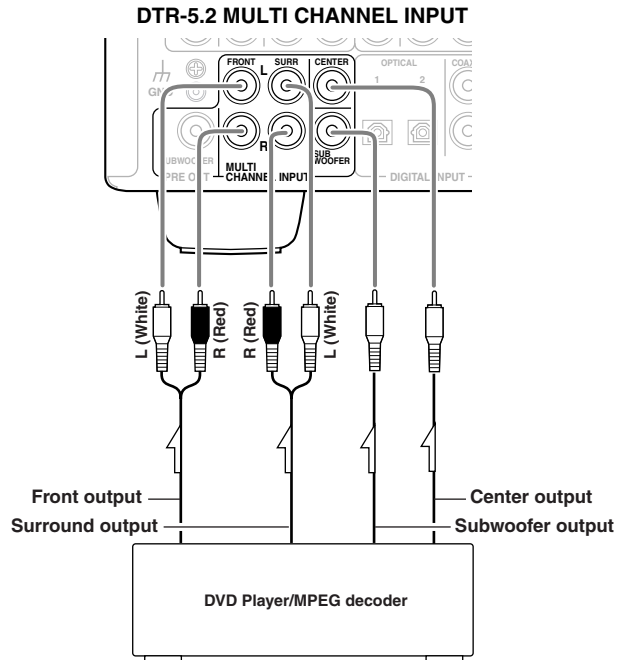
Cautions regarding the AC OUTLETS connectors

The DTR-5.2 is supplied with AC mains outlets for connecting the power cords from other devices so that their power is supplied through the DTR-5.2. By doing this, you can use the Standby/On button on the DTR-5.2 to turn on and off the connected devices as well.

Caution:
Make sure that the total capacity of the other components connected to this unit does not exceed the capacity that is printed on the rear panel. For this model, the capcity is 120 watts.

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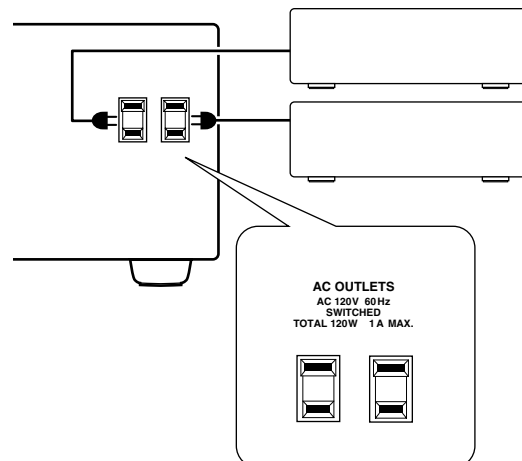
Operating components not reached by the remote controller signals (IR IN/OUT)

**The following equipment (sold separately) is essential for operation:**

• Onkyo's Multi-Room System kits (IR Remote Controller Extension System), or

• Multiroom A/V distribution and control systems from Niles® and Xantech® to name a few

• Xantech is a registered trademark of Xantech Corporation.

• Niles is a registered trademark of Niles Audio Corporation.

If the remote controller signal does not reach the DTR-5.2 remote sensor

If the DTR-5.2 is located inside a cabinet or other enclosure where the infrared rays from the remote controller cannnot enter, then operation with the remote controller will noe be possible. In such a case, it will be necessary to install a remote sensor at a location outside of the cabinet for the infrared rays from the controller to reach.
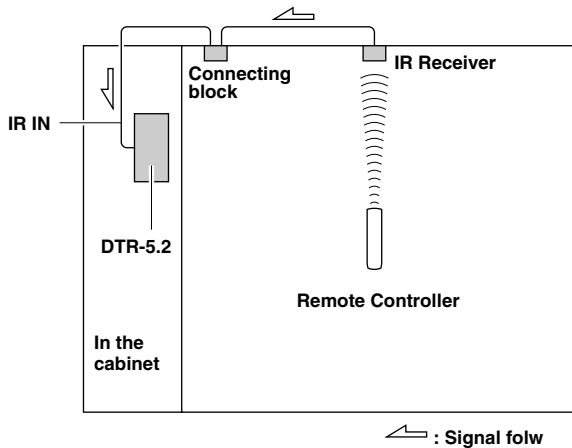
Make connection as shown below. Do not plug the equipment into the power source until the connection is complete.
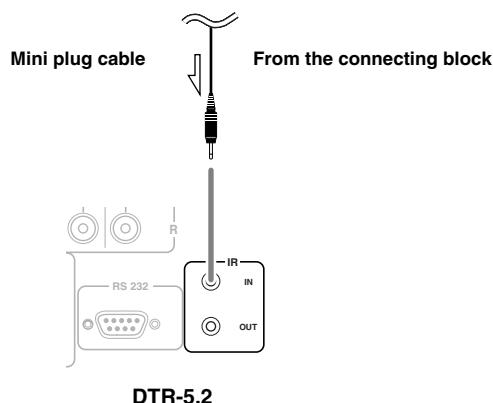
If the remote controller signal does not reach other components

In this situation, you will need to use a commercially available IR emitter. Connect the IR emitter to the IR OUT terminal on the DTR-5.2 and then place the IR emitter on the remote sensor of the component or facing it. When the IR emitter is connected, only the signal input to the IR IN terminal is output to the IR OUT terminal. The signal input from the remote sensor on the front of the DTR-5.2 will not be output to the IR OUT terminal.

15
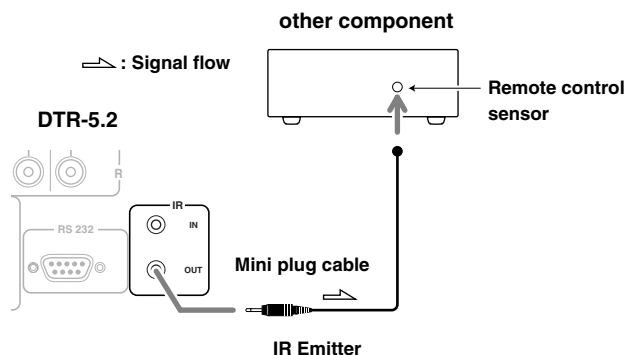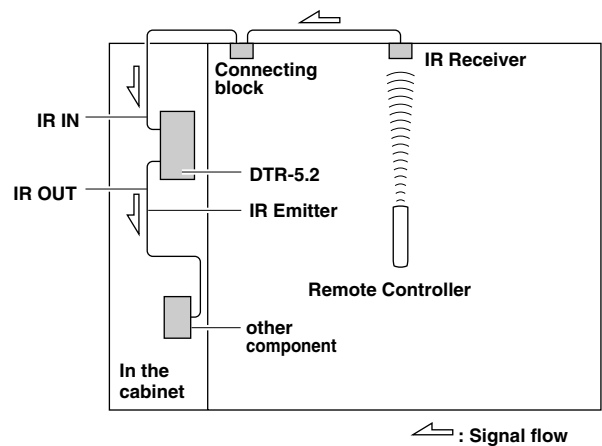
Connecting speakers

Positioning speakers

Speaker placement plays an important role in the reproduction of Surround sound. The placement of the speakers varies depending on the size of the room and the wall coverings used in the room. The illustration shows an example of a layout for standard speaker placement. Refer to this example when you position the speakers in order to experience the best of Surround sound.

Standard speaker placement

For ideal Surround effects, all speakers should be installed. If a center speaker or subwoofer is not connected, the sound from the unused channel is properly distributed to the connected speakers in order to produce the best Surround sound possible.

Front: The left, right, and center speakers should face the seated listener and be placed at ear level. The center speaker produces a richer sound image by enhancing the perception of the sound's source and movement.

Surround: Place the left and right Surround speakers 3 feet (1 meter) above the listener's ear level and facing toward the sides of the room, making sure that the listener is within the speakers' dispersion angle. These speakers produce the feel of a moving sound while creating the sensation of being in the middle of the action.
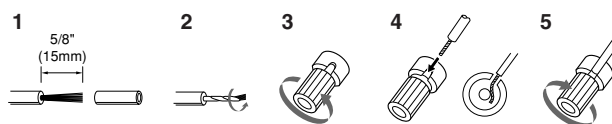
Subwoofer: Install a subwoofer with a built-in power amplifier for powerful bass sounds. The placement of the subwoofer does not affect the final quality of the sound image too much, so you can install it with the room layout in mind.

Refer to the speaker's instruction manual for more details.
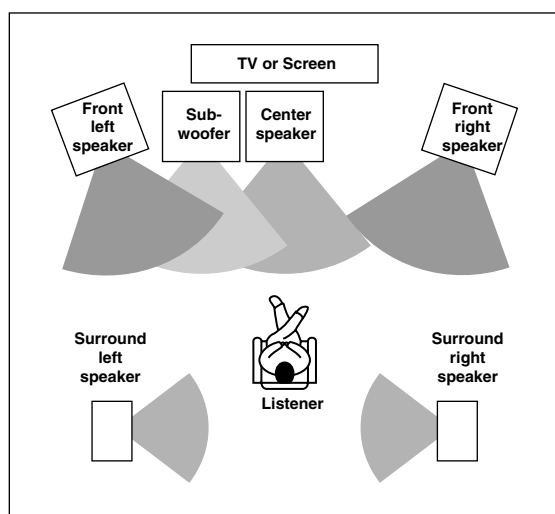
Connecting the speaker cable

1. **Strip away 5/8 inch (15 mm) of wire insulation.**

2. **Twist wire ends very tight.**

3. **Unscrew**

4. **Insert wire**

5. **Screw**

Connecting a subwoofer

Use the PRE OUT SUBWOOFER jack to connect a subwoofer with a built-in power amplifier. If your subwoofer does not have a built-in amplifier, connect an amplifier to the PRE OUT SUBWOOFER jack and the subwoofer to the amplifier.

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Connecting speakers

1. Check the impedance of the speakers you are connecting.

The DTR-5.2 requires speakers with an impedance of 4 Ω or greater. Connecting speakers with an impedance of less than 4 Ω may damage the DTR-5.2.

2. Set the IMPEDANCE SELECTOR switch according to the impedance of the speakers being connected.

If all speakers have an impedance of 6 Ω or greater, slide the IMPEDANCE SELECTOR switch to the left (6 OHMS MIN./ SPEAKER). If one or more speakers have an impedance of less than 6 Ω, slide the IMPEDANCE SELECTOR switch to the right (4 OHMS MIN./SPEAKER).

4 Ω or above/speaker   **6 Ω or above/speaker**
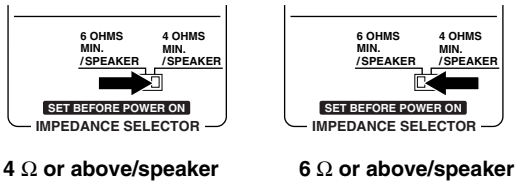
Notes:

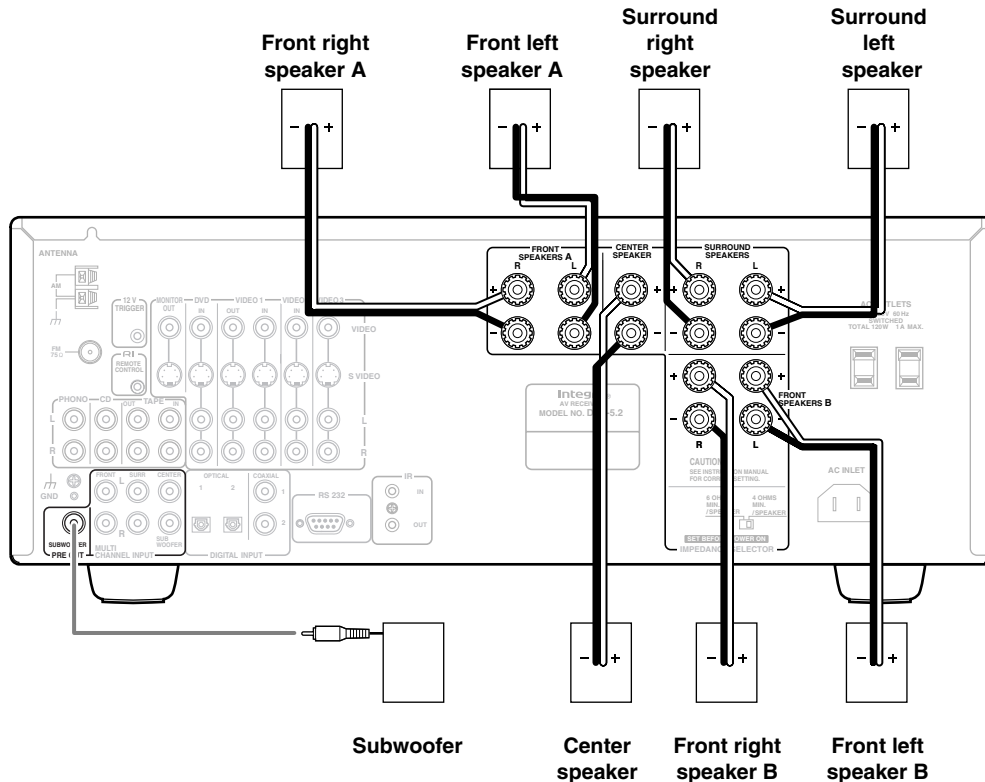• The power to the DTR-5.2 must not be turned on when changing the IMPEDANCE SELECTOR setting.

• When you are using only one speaker or when you wish to listen to monaural (mono) sound, a single speaker should never be connected in parallel to both the right and left-channel terminals simultaneously.
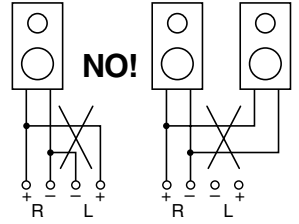
• To prevent damage to circuitry, never short-circuit the positive (+) and negative (–) speaker wire.

• Be sure to connect the positive and negative cables for the speakers properly. If they are mixed up, the left and right signals will be reversed and the audio will sound unnatural.

• Do not connect more than one speaker cable to one speaker terminal. Doing so may damage the DTR-5.2.

• Use FRONT SPEAKERS B terminals to connect a second pair of front speakers.

• When you listen to surround audio or select Multichannel, be sure to turn on SPEAKERS A.

17

Connecting the power

Standby indicator
Standby/on

Power   To wall outlet

ON   STDBY
RCVR MODE
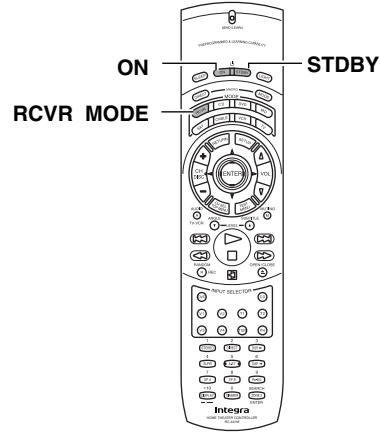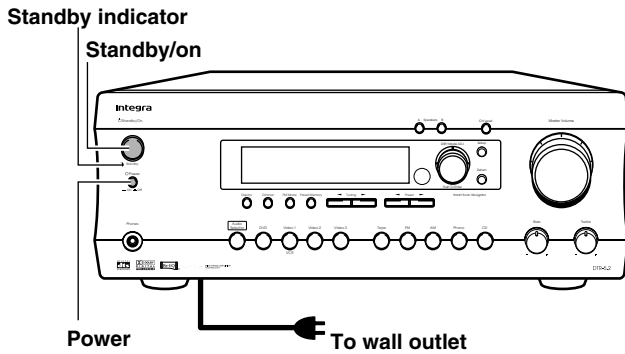
• The DTR-5.2 is shipped with the main power (Power) switch in the on position (▬ **On**). When the power cord is plugged in for the first time, the DTR-5.2 will automatically enter the standby state and the Standby indicator will light (same condition after step 2 below).

• Before you plug in the DTR-5.2, confirm that all connections have been made properly.

• Turning on the power may cause a momentary power surge, which might interfere with other electrical equipment on the same circuit, such as computers. If this happens, use a wall outlet on a different circuit.

1. Plug the power cord into an AC wall outlet.

2. Press the Power switch to set the DTR-5.2 to standby state.

The Standby indicator will light up.

Standby
Power
▬ On ▬ Off
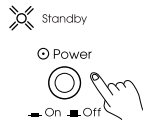
3. Press the Standby/On button to turn on the DTR-5.2. The display and four jog dial indicators will light up and the Standby indicator will turn off.

If you press the Standby/On button again, the receiver returns to Standby mode.

Standby/On
Standby
Turn off
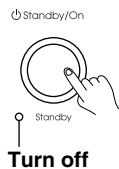
Turning the power on from the remote controller:

Before you can use the remote controller, you must perform steps 1 and 2 above and place the DTR-5.2 in the standby state.

1. Press the RCVR MODE button.

The RCVR MODE button lights green.

RCVR *CD*

2. Press the ON button to turn on the DTR-5.2 (take it out of the standby state).

To return the DTR-5.2 to the standby state, press the STDBY button.

ON *STDBY*

To change the display of the input source from TAPE to MD:

If you connected an MD recorder to the TAPE jack on the DTR-5.2, you can have "MD" appear when the Tape source button is pressed. By changing the display, if an Onkyo MD recorder ᴙI-connected, the ᴙI system functions will become enabled.

Changing the display:

Press and hold down the TAPE source button until the display changes from TAPE to MD (approx. 3 seconds).
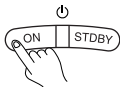
TAPE
Tape

MD

To return the display to its original setting, perform the same procedure. This setting is necessary to allow ᴙI system functions for the connected cassette tape or MD recorder.

Memory preservation

This unit does not require memory preservation batteries. A built-in memory power backup system preserves the contents of the memory during power failures and even when the Power switch is set to off. The Power switch must be set to on in order to charge the backup system.

The memory preservation period after the unit has been turned off varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been turned off. This period is shorter when the unit is exposed to a highly humid climate.


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Connecting antennas

To use the tuner of DTR-5.2, it is necessary to prepare the supplied FM and AM antennas.

- Adjustment and placement of the FM and AM antennas for better reception must be done while listening to a station broadcast.

- If better reception cannot be obtained, then placement of an outside antenna is recommended.

Assembling the AM loop antenna

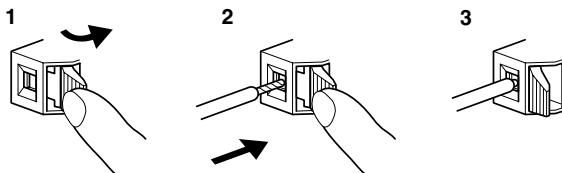Assemble the loop antenna as shown in the illustration.

- Refer to "Connecting the AM loop antenna" below for details on connecting the loop antenna.
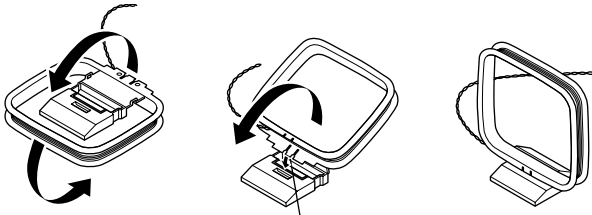
Insert into the hole.

Connecting the AM antenna cable

1. **Press down the lever.**

2. **Insert the wire into the hole.**

3. **Release the lever.**

Connecting the included antennas

Connecting the FM indoor antenna:

The FM indoor antenna is for indoor use only. During use, extend the antenna and move it in various directions until the clearest signal is received. Fix it with push pins or similar implements in the position that will cause the least amount of distortion.

If the reception is not very clear with the attached FM indoor antenna, the use of an outdoor antenna is recommended.

Connecting the AM loop antenna:

The AM loop antenna is for indoor use only. Set it in the direction and position where you receive the clearest sound. Put it as far away as possible from the DTR-5.2, televisions, speaker cables, and power cords.

When reception is not satisfactory with the attached AM loop antenna alone, connection of an outdoor antenna is recommended.

(Indoor) AM loop antenna
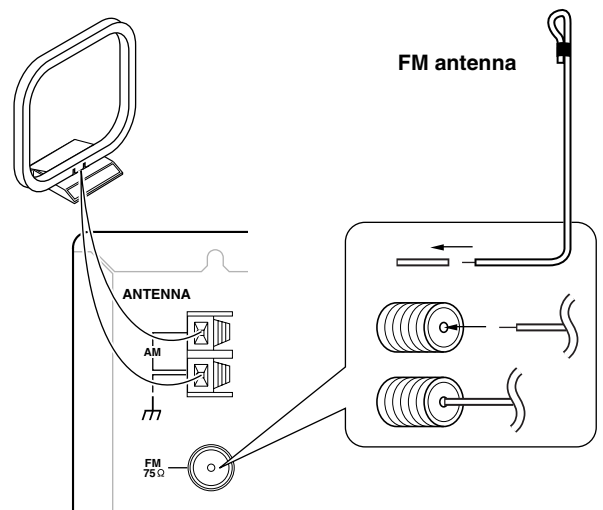
FM antenna

Strip away the insulation from the end of the cable, then fully insert the stripped end of the cable.
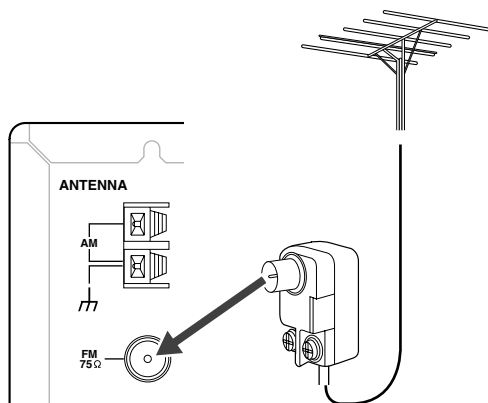
Hint:
Either of the split ends of the AM antenna can be connected to either terminal. Unlike speaker cabling, there is no polarity for AM broadcast signals.

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Connecting antennas
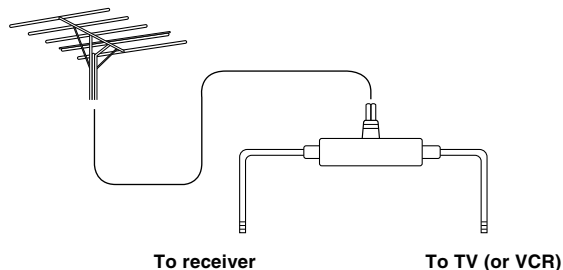
Connecting an FM outdoor antenna

Please make sure that you follow the considerations:

- Keep the antenna away from noise sources (neon signs, busy roads, etc.).
- It is dangerous to put the antenna close to power lines. Keep it well away from power lines, transformers, etc.
- To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 14 of the "Important Safeguards" on page 2 when you install the outdoor antenna.

Connecting an AM outdoor antenna

An outdoor antenna will be more effective if it is stretched horizontally above a window or outside.

- Do not remove the AM loop antenna.
- To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 14 of the "Important Safeguards" on page 2 when you install the outdoor antenna.
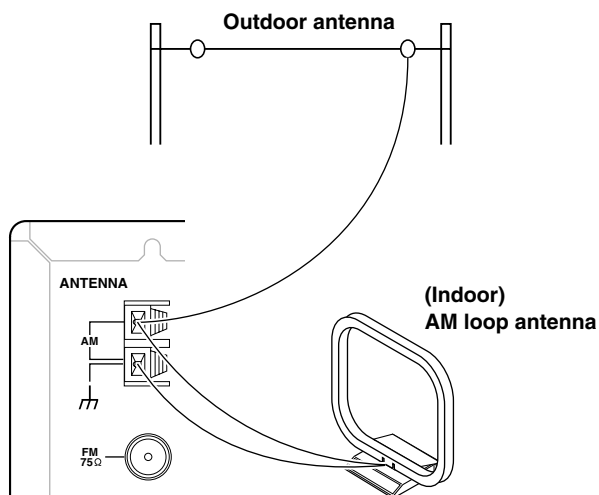
Directional linkage

Do not use the same antenna for both FM and TV (or VCR) reception since the FM and TV (or VCR) signals can interfere with each other. If you must use a common FM/TV (or VCR) antenna, use a directional linkage type splitter.
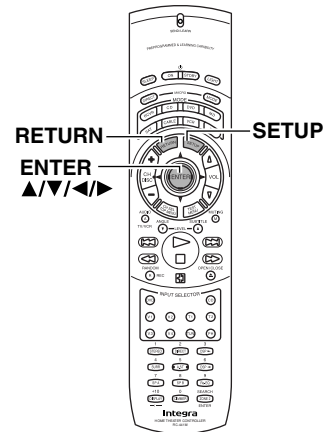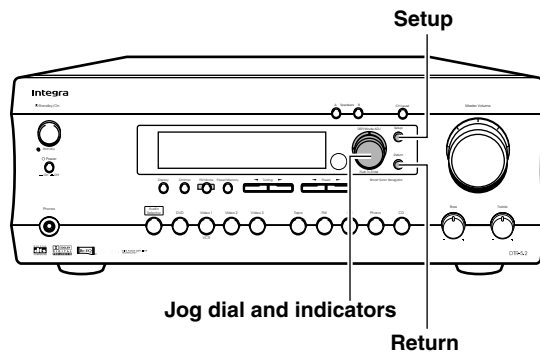
To receiver   **To TV (or VCR)**

20

Speaker setup

Follow the steps below before you start operating the unit.

Setup

RETURN   **SETUP**
ENTER
▲/▼/◄/►

Jog dial and indicators

Return
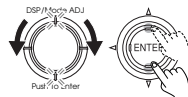
Speaker Configuration

These settings tell the DTR-5.2 which speakers you have connected and what size they are.

1. **Press the Setup (SETUP) button.**   **DTR-5.2**   **Remote controller**

   If anything other than "1. SPEAKER SETUP" appears, turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller until "1. SPEAKER SETUP" appears.
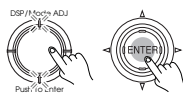
   1. SPEAKER SETUP

   The display changes as follows: "1. SPEAKER SETUP" → "2. INPUT SETUP" → "3. PREFERENCE."
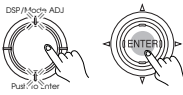
   * If the indicators directly above and below the jog dial are lit, turning the jog dial selects a group of settings and pushing the jog dial enters the selected group (i.e. takes you one level down).

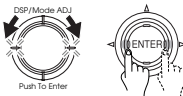2. **Press the jog dial or ENTER button on the remote controller.**

   SPEAKER CONFIG?

3. **Press the jog dial or ENTER button on the remote controller.**
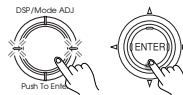
   SUBWOOFER=YES

4. **Turn the jog dial or press the ◄ or ► cursor buttons on the remote controller to set whether or not a subwoofer is connected.**

   YES: Select when a subwoofer is connected.
   **NO:** Select when a subwoofer is not connected.

   * If the indicators directly to the left and right of the jog dial are lit, turning the jog dial changes the setting of the currently selected parameter and pushing the jog dial displays the next parameter.

5. **Press either the jog dial or the ▼ cursor button on the remote controller once.**
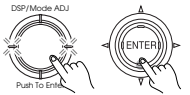
   FRONT   =LARGE

Then turn the jog dial or press the ◄ or ► cursor button on the remote controller to set the size of your front speakers.
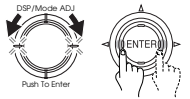
LARGE: Select if the front speakers are large sized.
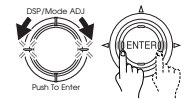**SMALL:** Select if the front speakers are small sized.

* If "NO" is selected for the Subwoofer setting, then this setting is fixed to "LARGE".

6. **Press either the jog dial or the ▼ cursor button on the remote controller once.**

   CENTER   =LARGE

Then turn the jog dial or press the ◄ or ► cursor buttons on the remote controller to set whether or not a center speaker is connected and, if one is connected, its size.

NONE: Select if no center speaker is connected.
LARGE: Select if the center speaker is large sized.
SMALL: Select if the center speaker is small sized.

* If "SMALL" is selected for the Front setting, then "LARGE" cannot be selected for this setting.

7. **Press either the jog dial or the ▼ cursor button on the remote controller once.**
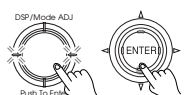
   SURROUND =SMALL

Then turn the jog dial or press the ◄ or ► cursor button on the remote controller to set whether or not surround speakers are connected and, if they are connected, their size.
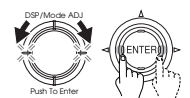
NONE: Select if no surround left and right speakers are connected.
LARGE: Select if the surround left and right speakers are large sized.
SMALL: Select if the surround left and right speakers are small sized.

* If "SMALL" is selected for the Front setting, then "LARGE" cannot be selected for this setting.

Pressing the jog dial again or ▼ cursor button returns you to the subwoofer setting.

8. **Press the Return (RETURN) button.**

   You return to the "SPEAKER CONFIG?" display.

Notes:

* If you press the Return (RETURN) button again, you go back up one more level.

* To exit the setup mode immediately, press the Setup (SETUP) button.

21

Speaker setup

Speaker Distance

These settings tell the DTR-5.2 how far away your speakers are located from the listening position so that it can provide the optimum sound space. If you are continuing from setting the speaker configuration and are still in the setup mode, skip directly to step 2.

1. **Press the Setup (SETUP) button.**

   If anything other than "1. SPEAKER SETUP" appears, turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller until "1. SPEAKER SETUP" appears.

   1. SPEAKER SETUP

2. **Press the jog dial or the ENTER button on the remote controller.**

   Then turn the jog dial or press the ▼ cursor button on the remote controller to display "SPEAKER DISTANCE."

   SP DISTANCE?

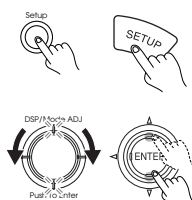3. **Press the jog dial or the ENTER button on the remote controller.**

   Then turn the jog dial or press the ◄ and ► cursor buttons on the remote controller to select the unit of measurement.

   UNIT   ~FEET

   FEET: Select if you will enter the distances in feet.
   METERS: Select if you will enter the distances in meters.

4. **Press the jog dial or the ▼ cursor button on the remote controller.**

   Then turn the jog dial or press the ◄ and ► cursor buttons on the remote controller to set the distance from the front speakers to the listening position.

   FRONT L/R ~ 12ft
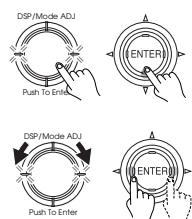
   You can set the distance in the range of 1 feet (0.3 m) - 30 feet (9 m) in 1 feet (0.3 m) steps.

5. **Repeat the procedure in step 4 to set the distance from the center speaker (CENTER) and the surround speakers (SURR L/R) to the listening position.**

6. **Press the Return (RETURN) button.**

   You return to the "SP DISTANCE?" display.

Notes:

- If you press the Return (RETURN) button again, you go back up one more level.
- To exit the setup mode immediately, press the Setup (SETUP) button.

Level Calibration

These settings allow you to set the volume levels of each speaker individually so that they all sound at the same level when heard from the listening position. If you are continuing from setting the speaker distances and are still in the setup mode, skip directly to step 2.

1. **Press the Setup (SETUP) button.**

   If anything other than "1. SPEAKER SETUP" appears, turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller until "1. SPEAKER SETUP" appears.
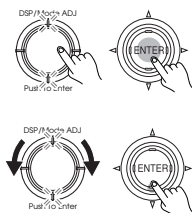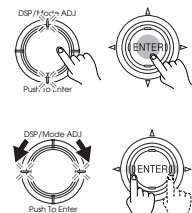
   1. SPEAKER SETUP
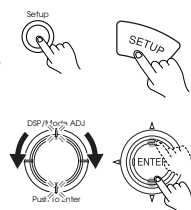
2. **Press the jog dial or the ENTER button on the remote controller.**

   Then turn the jog dial or press the ▼ cursor button on the remote controller to display the "LEVEL CAL."

   LEVEL CAL?
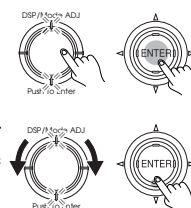
3. **Press the jog dial or ENTER button on the remote controller.**

   A test sound (pink noise) will be heard from the left front speaker. At this point, it is not necessary to adjust the volume of the test sound.

   LEFT   ~ 0dB
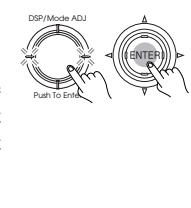
4. **Press either the jog dial or the ▼ cursor button on the remote controller again.**

   The test sound will now be heard from a different speaker.
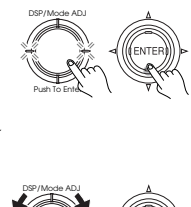
5. **Turn the jog dial or press the ◄ or ► cursor buttons on the remote controller to adjust the volume of the test sound from this speaker to the same level that you heard from the previous speaker.**

   You can adjust the level in the range between -12 dB and +12 dB.
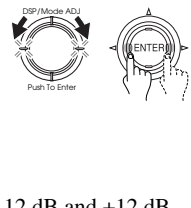
6. **Repeat the procedure in step 4 and 5 until the volume of the test sound from all speakers is the same level.**

   Each time you press the jog dial or the ▼ button on the remote controller, the test sound will be heard from a different speaker. The speaker order for calibration is LEFT (front left) → CENTER (center) → RIGHT (front right) → SURR RIGHT (surround right) → SURR LEFT (surround left) → SUBWOOFER (subwoofer).

7. **Press the Return (RETURN) button.**

   You return to the "LEVEL CAL?" display.

Notes:

- If you press the Return (RETURN) button again, you go back up one more level.
- To exit the setup mode immediately, press the Setup (SETUP) button.

You can also press the TEST button on the remote controller to perform the Level Calibration setting. For more details, see page 9.

22

Listening to Radio Broadcasts

Tuning ◀ ▶

FM Mode

FM AM
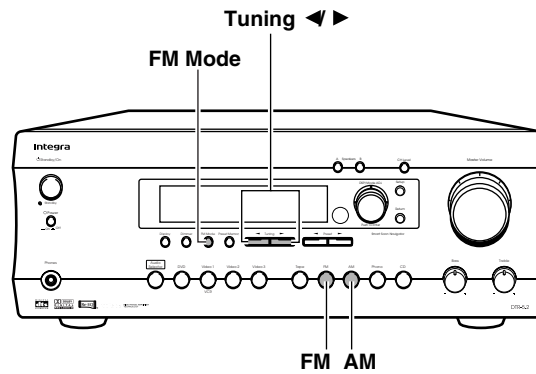
One of the features of the DTR-5.2 that is most frequently used is its ability to play FM and AM broadcast radio stations. The DTR-5.2 provides a number of listening modes perfect for listening to the radio and getting the most out of your audio system. Also, by presetting radio stations that you listen to frequently, you can select them easily by pressing the CH ✛/═ button on the remote controller.

Tuning into a radio station

1. **Press either the AM or FM input source button.**

   FM   AM

2. **Using the Tuning ◀ and ▶ buttons on the front panel, tune into the station you desire.**

   ◀   Tuning   ▶

"FM STEREO"
(Lights red)   **Tuned in stereo**   **FM MUTE**

▶ TUNED ◀   FM MUTE
FM STEREO

FM 88.10MHZ
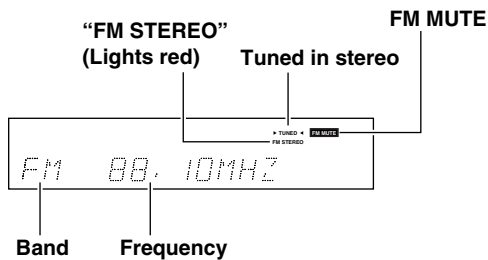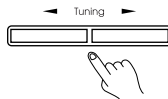
Band   Frequency

- The tuner frequency changes in 50 kHz increments for FM and 10 kHz increments for AM.
- When tuning into FM stations, you can press the Tuning ◀ or ▶ button continuously for more than 0.5 seconds to scan for an FM station in the direction of the button you pressed (FM auto tuning mode). After you release the button and a station is received in stereo, the scanning stops.

Listening to a stereo radio station (FM mode)

When you tune into a radio station, ▶ TUNED ◀ indicator appears in the display. If you tune into an FM station in stereo, then "FM STEREO" appears. If the signal is weak, it may be impossible to tune into the station in stereo. In such a case, **press the FM Mode button** on the front panel. The FM MUTE indicator turns off. At this time, the station will be in mono and interstation noise will be heard.

FM Mode

23

Listening to Radio Broadcasts

Preset ◄ ►

RCVR MODE

CH ♣/═

FM **AM**

Preset Memory   **Jog dial**

TUN

Presetting a radio station

1. **Tune into the radio station you desire (see "Tuning into a radio station").**

   $$FM \quad 88.10MHZ$$

2. **Press the Preset Memory button on the front panel.**

   "PRESET IN?" appears in the front display for about five seconds.

   $$PRESET \quad INP$$

3. **Press the jog dial.**

   The MEMORY indicator lights red.

   "MEMORY"
   (Lights red)
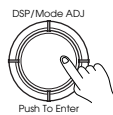
4. **Turning the jog dial, select a preset number (from 1 to 40) to assign the station to be preset.**

   "MEMORY"
   (Lights red)
   Flash

   $$FM \quad 88.10MHZ \quad 7ch$$
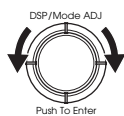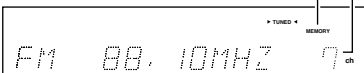
5. **Press the jog dial to finalize the procedure.**

   This programs the radio station as a preset radio station.

   • Up to 40 stations can be stored in memory as preset radio stations.
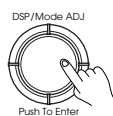
Selecting a preset radio station

1. **Press either the AM or FM input source button. The front display should show the currently selected frequency.**
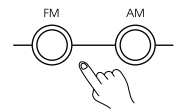
   If it displays the listening mode, press the Display button to display the frequency.

2. **Press the Preset ◄ / ► button and select the number of the desired preset station.**
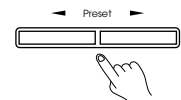
When using the remote controller:

1. **Press the RCVR MODE button.**

   The RCVR MODE button lights green.

2. **Press the TUN button.**

3. **Press the CH ♣/═ button and select the number of the desired preset station.**

Erasing a preset radio station

1. **Press the AM or FM button and press the Preset ◄ / ► button to select the preset radio station that you want erase (see above).**

   $$FM \quad 88.10MHZ \quad 7ch$$

2. **Press the Preset Memory button.**

   "PRESET IN?" appears.

   $$PRESET \quad INP$$

3. **Turn the jog dial to display "PRESET ERASE?"**

   $$PRESET \quad ERASEP \quad 7ch$$

4. **Press the jog dial.**

   The selected preset station is erased.

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Enjoying music or videos with the DTR-5.2

Display Jog dial **Speakers A/B** **Master Volume**

RCVR MODE

VOL △/▽

MUTING

Listening mode buttons

SP A Re-EQ

DISPLAY

Input source buttons **Bass** **Treble**
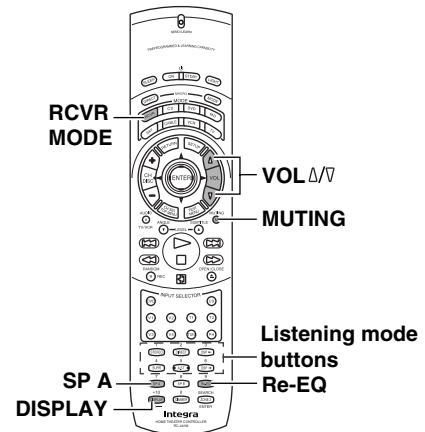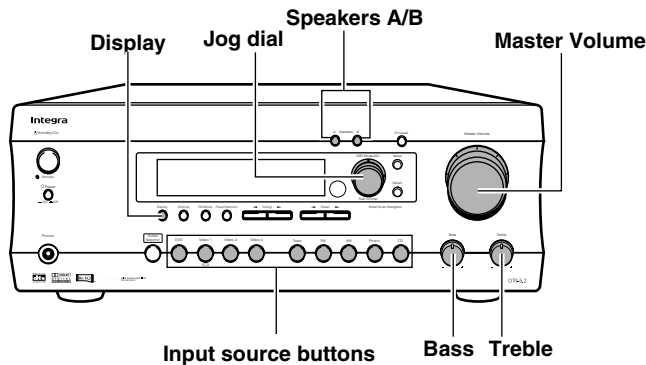
Basic operation

To use the remote controller, first press the RCVR button.

1. Press the desired input source button.

DTR-5.2

DVD Video 1 Video 2 Video 3 Tape FM AM Phono CD
VCR
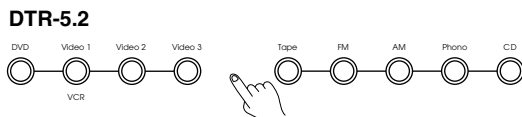
Remote controller
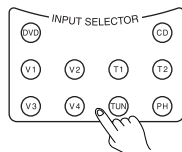
INPUT SELECTOR

The selected source name appears on the display. If you have selected DVD, CD, or other digital devices, see "Digital Input" on page 29. If you have selected a multichannel input, see "Multichannel" on page 29 and "Enjoying the multichannel input" on page 27.

2. Make sure that the Speakers A indicator is lit on the display. If it is not lit, press the Speakers A button.

(Refer to the "Selecting speakers" section on page 26 for more details.)

3. Start playing the selected input source.

Follow the operating instructions for the source device.

4. Selecting a listening mode.

Select a listening mode. (Refer to this page.)

5. Adjust the volume to an appropriate level.

These controls allow you to adjust the volume of the Front, Center, Surround speakers and subwoofer simultaneously. Turning the control clockwise increases the volume level. Turning the control counterclockwise decreases the volume. (Refer to page 26 for more information.)

DTR-5.2 **Remote controller**

Master Volume VOL
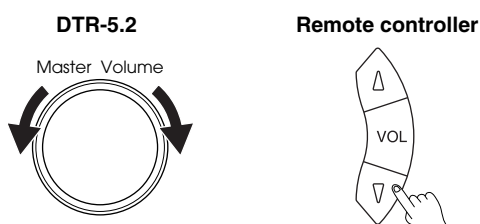
• Use the bass and treble controls to adjust the tone. (Refer to page 26 for more information.)

Selecting a listening mode

Select your desired listening mode using the jog dial.

• Depending on the software that you are playing, SURROUND will be Dolby Digital, DTS, or Dolby Pro Logic II.

• Refer to page 28 for more details of listening modes.

• Refer to page 30 for sources and listening modes.

• When playing Dolby Digital or DTS software, the listening mode will automatically change to Dolby Digital or DTS.

• With Dolby Digital and Dolby Pro Logic II Movie, you can use the Re-EQ function (for more details, see page 9).

Tip:
You can set in advance a different listening mode for each input source. For more details, see page 29.

When turning the jog dial

The items change as shown below:
DIRECT ↔ STEREO ↔ SURROUND ↔ ORCHESTRA ↔ UNPLUGGED ↔ STUDIO MIX ↔ TV LOGIC ↔ ALL CH STEREO ↔ DIRECT...
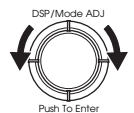
When pressing the jog dial

Each time you press it, the items change as shown below:
DIRECT → STEREO → SURROUND → ALL CH STEREO → DIRECT...
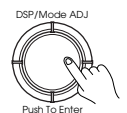
Note:
If you want to switch between Dolby Pro Logic II Movie and Dolby Pro Logic II Music at the DTR-5.2, press the jog dial and select "SURROUND" for the listening mode.

When using the remote controller (for more details, see page 9)

1. Press the RCVR MODE button.

2. Press one of the listening mode buttons, STEREO, DIRECT, A. ST, SURR, DSP ◄, or DSP ►, to select the listening mode.

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Enjoying music or videos with the DTR-5.2
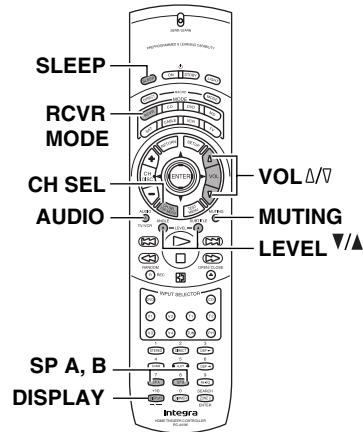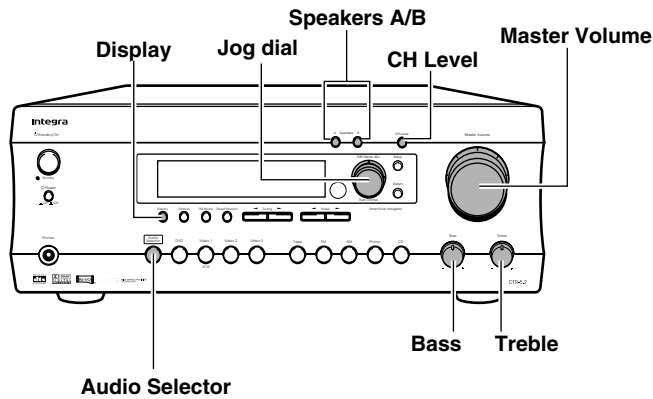
Selecting speakers (Speakers A, B)

Speakers A: This button turns on or off the speakers connected to the FRONT SPEAKERS, CENTER SPEAKER, SURROUND SPEAKERS, and SUBWOOFER terminals.

When you listen to surround audio or select multi channel input, be sure to turn on Speakers A.

When the speakers are turned on, the SPEAKERS A indicator lights up.

Speakers B: This button turns on or off the speakers connected to the FRONT SPEAKERS B terminals.

When the speakers are turned on, the SPEAKERS B indicator lights up.

Notes:

- You cannot select surround sound when you are using Speakers B.
- When using the B speakers, the A speakers can only be used for stereo or direct playback, so nothing will be output from the left and right surround speakers during multichannel playback.

Adjusting the volume

Adjusting the main volume adjusts the volume level output from all the speakers connected to the DTR-5.2 together. If headphones are connected, this also adjusts the volume heard from the headphone speakers. To adjust the volume, either press the VOL Δ/∇ buttons on the remote controller or turn the Master Volume dial. To increase the volume, turn the dial clockwise; to decrease the volume, turn the dial counterclockwise. The volume can be set to Min, 1 to 79, and Max.

Adjusting the bass and treble

You can adjust the bass and treble levels using the Bass and Treble dials. This function only affects the front left and right speakers. For multichannel sources, these dials will not work if the tone control is set to "OFF." (Refer to page 27.)

Temporarily turning off the sound (Remote controller only)

To turn off the sound momentarily, such as when interrupted by a phone call, press the MUTING button on the remote controller. When pressed, "MUTING" is displayed on the DTR-5.2. Press the MUTING button again to turn the sound back on.

Switching the display

While listening to or watching an input source, you can display the information regarding the type of source and signal being input by pressing the DISPLAY button on the DTR-5.2 or the remote controller.

When an input source other than FM or AM is selected:

Input + volume	DVD 10
Program format*	DOLBY _3/2.1
Input + Listening mode or MULTI CH	DVD DOLBY D
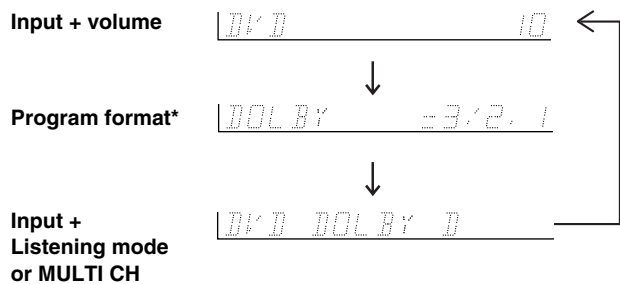
* If the input signal does not have a program format, then this will be skipped.

When FM or AM is selected as the input source:

FM/AM frequency + Preset no.	FM 88.10MHZ 7ch
FM/AM + Listening mode	FM STEREO
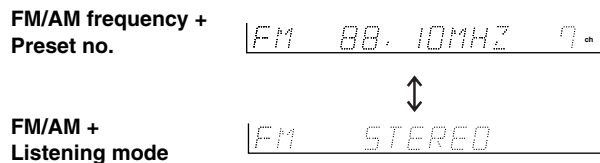
Using the sleep time (Remote controller only)

The SLEEP button enables you to set the DTR-5.2 to turn off automatically after a specified time period. If you press it once, the DTR-5.2 will turn off after 90 minutes. Each time it is pressed thereafter, the remaining time until the DTR-5.2 turns off decreases by 10 minutes. While, the sleep function is enabled, you can press the SLEEP button to see how much time is left. To cancel the sleep function, press the SLEEP button when the time displayed is less than 10 minutes.

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Enjoying music or videos with the DTR-5.2

Changing the audio mode

Press the Audio Selector button on the front panel (or the AUDIO button on the remote controller) to change the audio mode. Each time the button is pressed, the mode changes from "AUTO" → "MULTICH" → "ANALOG" and back to "AUTO." The "AUTO" audio mode is recommended for normal circumstances.

AUTO (automatic detection): With this setting, the DTR-5.2 automatically detects whether the input signal is digital or analog. When a digital signal is not input, then the analog signal is played.

MULTICH: Select this setting to play back the input from the component connected to the MULTI CHANNEL INPUT port. This setting is effective when the Multichannel setting in the Audio Setup is set to "YES."

ANALOG: Select this setting to play back the input from a source component connected to an analog audio input jacks. With this setting, even if a digital signal is input from the same component, only the analog signal will be output.

Temporarily changing the speaker output levels

To change the individual speaker volumes temporarily, follow the procedure given below. Each channel can be set between –12 to +12 decibels. Note that the calibration settings will return to the original settings when the DTR-5.2 is put in standby.

1. **Press the CH Level button and select the desired speaker.**

2. **Turn the jog dial to adjust the volume level.**
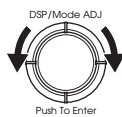
When using the remote controller:

1. **Press the RCVR MODE button.**

2. **Press the CH SEL button and select the desired speaker.**

3. **Press the LEVEL ▲ or ▼ button to adjust the volume level.**

Notes:
- You cannot select a speaker if the CONFIG parameter of the speaker is set to NO or NONE.
- If the speaker level is set to +1 dB or higher, the maximum level indicated on the display will change if you raise the volume level.
- When you press the TEST button after you set the level, the current level will be used as the value set via the test tone.

Enjoying the multichannel input

Before starting operations, first make sure that the multichannel connection is properly made and that the Multichannel setting of the Input Setup → Audio Setup is set to "YES" (see page 29).

1. **Press the input source button for the component with multichannel output connected to the MULTI CHANNEL INPUT on the rear of the DTR-5.2.**

2. **Select "MULTICH" using the Audio Selector button on the front panel (AUDIO button on the remote controller).**

   DTR-5.2   Remote controller

3. **Turn on the connected component and start playing the desired media.**

4. **If necessary, adjust the output level of each speaker as desired (see "Temporarily changing the speaker output levels" on this page).**

   Adjust the speaker output levels so that you can hear the same sound level from each speaker at the listening position. For the front right, front left, center, surround right, and surround left speakers, the output levels can be adjusted between –12 to +12 decibels. The subwoofer can be adjusted between –30 to +12 decibels.

5. **Adjust the volume with the Master Volume dial or the VOL △/▽ buttons on the remote controller.**

Using the tone control:
To make the Bass and Treble dials work for multichannel sources, you must first set the tone control to "ON."

1. **Turn the tone control on by pressing either the jog dial on the DTR-5.2 or the DIRECT button on the remote controller.**
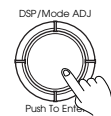
   When pressed only once, the current setting appears, so press twice to change the setting.

2. **Adjust the tone using the Bass and Treble dials.**
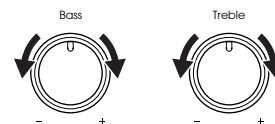
Notes:
- Adjusting the volume level of each speaker for the MULTI CH INPUT source does not affect the speaker level adjusted by the listening position.
- If the speaker level is set to +1 dB or higher, the maximum level indicated on the display will change if you raise the volume level.

27

Using listening mode

The DTR-5.2's surround sound enables you to enjoy the presence of a movie theater or concert hall in your room.

The configuration of the speakers are very important for the surround sound. Refer to "Connecting speakers" on page 16.

Before using a listening mode, make sure the Speaker Setup parameters have been set (refer to page 21) . Once the parameters have been set, it is not necessary to set them again. Refer to page 25 for information regarding how to select the listening mode.

Listening modes

Stereo
This mode has all input sounds output from the left and right front speakers.

Direct
This mode delivers pure sound with minimum sound quality adjustment and filtration. The sound recorded for the right and left front channels is output to the right and left front speakers only and not output to the subwoofer.

Surround modes

With this mode, decoding is performed automatically to match the input signal. This original mode adds no sound processing to the input signal.

- **Dolby D (Dolby Digital)**
  Digital data with AC-3 compression and a maximum of 5.1-channel* surround sound. This source signal comes from DVDs and LDs that have the [DOLBY DIGITAL] mark and therefore recorded for 5.1-channel output. This source also comes from digital satellite broadcasts that support Dolby Digital.

- **DTS**
  DTS (Digital Theater System) is compressed digital data with a maximum 5.1-channel* surround output that allows for an extremely high-quality sound. This source signal requires a DVD player that supports DTS output and comes from compact discs, DVDs, and LDs that have the [dts] mark.

  Notes on DTS:
  - If you play a CD or LD that supports DTS when the "ANALOG" setting is selected on the DTR-5.2, the DTS encoded signal will not be decoded and noise will be output. This noise could damage the amplifier and speakers. Therefore, be sure to selected "AUTO" and use the digital input jacks (OPTICAL or COAXIAL) to connect the DTS source.
  - The DTS indicator on the DTR-5.2 lights while a DTS source is played. When playback finishes and the DTS signal transmission stops, the DTR-5.2 remains in DTS mode and the DTS indicator remains lit. This prevents noise when you operate the pause or skip button on the player. Therefore, if the source is immediately switched from DTS to PCM, the PCM signal may not be played. In this case, stop the playback of the source on the player for about three seconds and then resume playback.
  - If you press the pause or skip button on the player while playing a DTS source, on rare occasions a short noise may be heard. This is not a malfunction.
  - You may not be able to play some DTS source signals from certain CD players and LD players even if you connect the player to the DTR-5.2 digitally. This is because the digital signal has been processed (such as the output level, sampling frequency, or frequency response) and the DTR-5.2 cannot recognize the signal as DTS data. Therefore you may hear noise when you play a DTS source while processing the
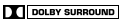
signal.
  - The outputs for the VIDEO 1 OUT and TAPE OUT output analog audio signals. Do not record from CDs or LDs that support DTS using these outputs. If you do, the DTS-encoded signal will be recorded as noise.

* The 5.1-channel digital surround format has a variety of versions including Dolby Digital and DTS. The 5.1- channel digital surround format enables you to individually record and play five full-range (20 Hz to 20 kHz) channels (left and right front, center, and two surround channels) plus an LFE channel (Low Frequency Effect) for the low-range effect sound. It will create a realistic sound that can be heard in the theaters and concert halls.

- **DOLBY PRO LOGIC II Surround**
  This mode is a new generation 5-channel surround system that provides performance between the 4-channel (left front, right front, center, and monaural surround) Pro Logic Surround and the 5.1-channel Dolby Digital Surround. This mode can be set to the Movie mode designed for playing movies and the Music mode designed for listening to music. In the Movie mode, the surround channels, which used to provide monaural output over only a narrow frequency range, now provide complete stereo output over the full frequency range. The result is movie viewing with a realistic feel of movement. The Music mode uses the surround channels to provide a natural sound space that cannot be provided with normal stereo output.

  This mode can be used with VHS and DVD videos with the [DOLBY SURROUND] mark and certain television programs. The Music mode can be used with music compact discs and other stereo sources.

  You can press the SURR button on the remote controller to switch between MOVIE and MUSIC. The initial setting is MOVIE. This setting can be made for each input source.

  If no surround speakers are connected, then the surround sound is divided and output from the front left and right channels (3 stereo).

  Re-EQ function
  You can use the Cinema Re-Equalization function when playing back sources in the Dolby Digital and Dolby Pro Logic II Movie modes (see page 9).

  LATE NIGHT
  When using Dolby Digital, you can use the LATE NIGHT function (see page 32).

Orchestra
This mode is appropriate for classical and opera music. The center channel is cut and the surround channels are emphasized to widen the stereo image. It will simulate the natural reverberation that is created in large halls.

TV Logic
This mode gives realistic acoustics to TV programs that are aired from TV studios. It enhances the entire surround sound and clarity of the conversation.

Unplugged
This mode is suitable for acoustical instrumental sounds, vocals, and jazz music. By emphasizing the front stereo image, it will simulate the acoustics that you would experience in front of the stage.

Studio-Mix
This mode is for rock and popular music. The lively sounds are enhanced for a powerful acoustic image that simulates the feeling of being in a club or rock concert.

All Ch Stereo
This mode is designed for playing background music. The front, surround, and surround back channels create a stereo image that encompasses the entire area.

28

Input Setup

2. Input Setup

These settings can be set differently for each input source.

Audio Setup

Digital Input (D. INPUT): This setting tells the DTR-5.2 which input source button on the front panel is connected with which digital input jack on the rear panel.

If you have connected your components in accordance with the default settings (given in the table below), then there is no need to change this setting.

Multichannel (MULTICH): This setting will not appear if AM or FM is selected at the front panel for the input source. The initial settings are "YES" for the DVD input source and "NO" for all other input sources. This setting is normally set to "NO," and only needs to be changed to "YES" if a DVD player, MPEG decoder, or other component that has a multi channel port is connected to the MULTI CHANNEL INPUT port for 5.1-channel audio.

Default setting

Input source	Digital input	Multichannel
DVD	COAX 1	YES
VIDEO 1	COAX 2	NO
VIDEO 2	----	NO
VIDEO 3	OPT 2	NO
TAPE	----	NO
FM		
AM		
PHONO	----	NO
CD	OPT 1	NO

----: No setting   ⬡ : Not applicable

OPT1: Select if connected to DIGITAL INPUT (OPTICAL) 1.

OPT2: Select if connected to DIGITAL INPUT (OPTICAL) 2.

COAX1: Select if connected to DIGITAL INPUT (COAXIAL) 1.

COAX2: Select if connected to DIGITAL INPUT (COAXIAL) 2.

----: Select if the input source is not from a digital input jack.

Notes:

• Do not assign a digital input to more than one input source. If you are making a digital connection that requires you to change the default settings, be sure to always first cancel the current digital input setting and then assign the new setting.

• When playing a device that is actually connected to the MULTI CHANNEL INPUT terminal, select MULTICH with the Audio Selector button (see page 27).

Audio Setup procedure

1. Select the desired input source.
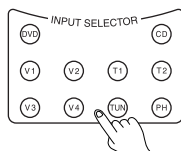
DTR-5.2

DVD Video 1 Video 2 Video 3   Tape FM AM Phono CD

VCR

Remote controller

INPUT SELECTOR

DVD CD
V1 V2 T1 T2
V3 V4 TUN PH

2. Press the Setup (SETUP) button.

Turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller to display "2. INPUT SETUP."
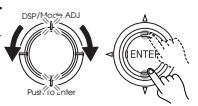
3. Press the jog dial or ENTER button on the remote controller.

"AUDIO SETUP?" appears in the front display.

4. Press the jog dial or ENTER button on the remote controller.

The name of the digital input currently assigned to the selected input source appears.

5. Turn the jog dial or press the ◄ or ► cursor button on the remote controller to select the digital input.

(Example: If connected to COAX 1.)

D.INPUT =COAX 1

6. Press either the jog dial or the ▼ cursor button on the remote controller.

"MULTICH=YES" or "NO" appears.
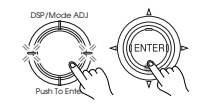
MULTICH =YES

If a component with a 5.1-channel output terminal is connected (i.e., DVD player or MPEG decoder), turn the jog dial or press the ◄ and ► buttons on the remote controller to select "YES."
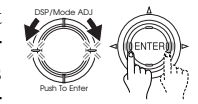
7. Press the Return (RETURN) button.

"AUDIO SETUP?" appears in the front display.

To exit the setup mode immediately, press the Setup (SETUP) button.
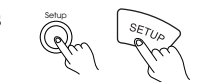
Listening Mode Preset

With the DTR-5.2, you can set a different listening mode for each different signal type that comes from each input source.

For example, with the default settings, even when using the same DVD player, if a CD is played, the listening mode automatically becomes "STEREO," and if a DVD is played (Dolby Digital 3/2.1), the listening mode automatically becomes Dolby D.

Analog/PCM Source: Set a listening mode for the input signal from 2-channel analog sources and PCM source (default: STEREO.)

Note:
For PCM sources recorded at a sampling rate of 96 kHz or greater, only the Stereo or Direct listening modes can be selected. However, the set listening mode is stored in memory.

Digital format Source: Set a listening mode for the input signal from digital sources (default: SURROUND).

29

Input Setup

1. Select the desired input source.
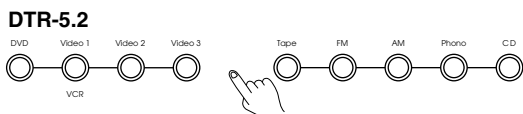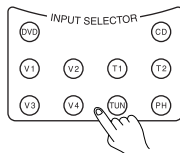
DTR-5.2

DVD Video 1 Video 2 Video 3 Tape FM AM Phono CD
VCR

Remote controller

INPUT SELECTOR
DVD CD
V1 V2 T1 T2
V3 V4 TUN PH

2. Press the Setup (SETUP) button.

Turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller to display "2. INPUT SETUP."

3. Press the jog dial or ENTER button on the remote controller.

Turn the jog dial or press the ▼ cursor button on the remote controller to display "LSTNMODEPRESET?".

4. Press the jog dial or ENTER button on the remote controller.

The listening mode when playing an analog/PCM source with the currently selected input source appears.

A:PCM-STEREO

5. Turn the jog dial or press the ◄ or ► cursor buttons on the remote controller to select the listening mode.

Refer to the table to see what listening modes are available.

6. Press either the jog dial or the ▼ cursor button on the remote controller.

The listening mode when playing a digital format source with the currently selected input source appears.
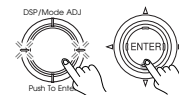
D.FMT-SURROUND

7. Turn the jog dial or press the ◄ or ► cursor button on the remote controller to select the listening mode.

Refer to the table to see what listening modes are available.
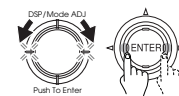
8. Press the Return (RETURN) button.

"LSTNMODEPRESET?" appears in the front display.

To exit the setup mode immediately, press the Setup (SETUP) button.

Relationship between input source and listening mode

| Input source signal (display)	Analog/PCM Source	Digital Format	
Type of media	Tape, CD, Record, Tuner, DVD Video (PCM), LD (PCM), Digital satellite broadcast	DVD, Digital satellite broadcast, DTS-CD	
Listening Mode		Dolby Digital 2ch Source	DTS, All excluding Dolby Digital 2ch
Direct	●		
Stereo	●	●	●
Surround — Pro Logic II (Movie)	●	●	
Surround — Pro Logic II (Music)	●	●	
Surround — Dolby Digital			●
Surround — DTS			●
Orchestra	●		
Unplugged	●		
Studio-Mix	●		
TV Logic	●		
All Ch Stereo	●		

Notes:
- The listening modes that can be set are different for each input source format.
- You may not be able to select all the listening modes shown here depending on your speaker configuration or the selected input source.

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Input Setup

IntelliVolume

When switching input sources, you may find that the output level for different components or input sources connected to the DTR-5.2 is different even though the main volume setting is the same. Under normal circumstances, you would then have to change the volume setting each time you change the input source. This IntelliVolume allows you to preset a volume level for each input source separately so that when you do switch from one input source to another, the DTR-5.2 adjusts the volume accordingly so that the resulting volume stays the same.

1. Select the desired input source.
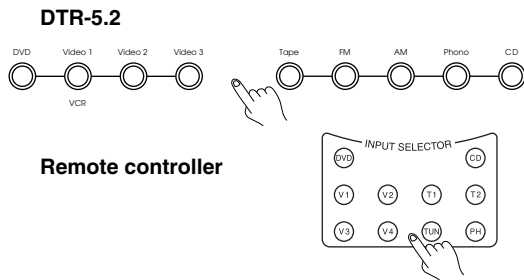
DTR-5.2

Remote controller
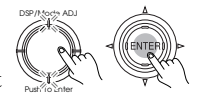
2. Press the Setup (SETUP) button.

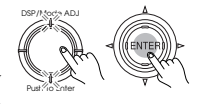Turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller to display "2. INPUT SETUP"
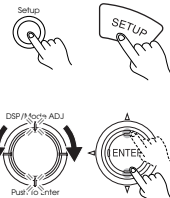
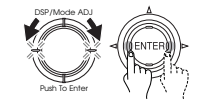**3. Press the jog dial or ENTER button on the remote controller.**

Turn the jog dial or press the ▼ cursor button on the remote controller to display "INTELLIVOLUME?".

4. Press the jog dial or ENTER button on the remote controller.

The currently set volume level appears.

INTELLIVOL — 0 dB
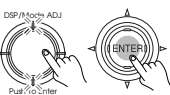
5. Turn the jog dial or press the ◄ and ► cursor buttons on the remote controller to set the IntelliVolume.

It can be adjusted between -12 and +12 decibels.
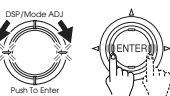
6. Press the Return (RETURN) button.

"INTELLIVOLUME?" appears in the front display.

To exit the setup mode immediately, press the Setup (SETUP) button.
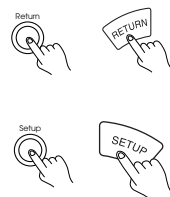
12V Trigger

This setting allows you to make the required settings to turn on the output from the 12V TRIGGER terminal to control another component or device with the DTR-5.2 for each input source.

ON: Select to activate the device connected to the 12V TRIGGER terminal when the input source is selected.
OFF: Select when no device is connected to the 12V TRIGGER terminal or you do not want the connected device to activate.

1. Select the desired input source.
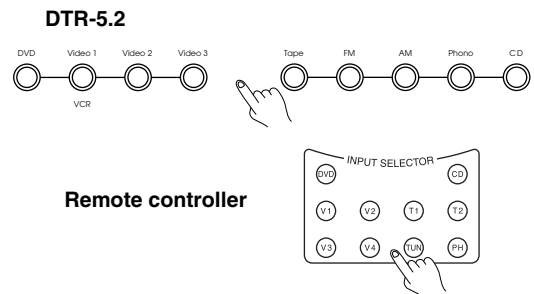
DTR-5.2

Remote controller

2. Press the Setup (SETUP) button.

Turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller to display "2. INPUT SETUP"
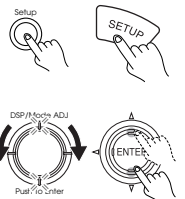
3. Press the jog dial or ENTER button on the remote controller.

Turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller to display "12V TRIGGER"
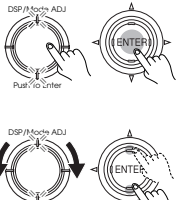
4. Press the jog dial or ENTER button on the remote controller.

The currently setting appears.

TRIGGER —ON
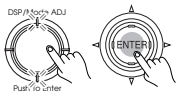
5. Turn the jog dial or press the ◄ and ► cursor buttons on the remote controller to set 12V TRIGGER.
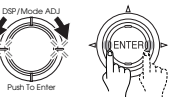
6. Press the Return (RETURN) button.

"12V TRIGGER?" appears in the front display.

To exit the setup mode immediately, press the Setup (SETUP) button.

31
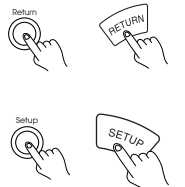
Preference

3. Preference

Volume Setup

Maximum Volume (MAXIMUM VOL): This setting allows you to set the maximum volume that can be output with the Master Volume dial to prevent components from being damaged by excessively loud volumes. When Maximum Volume is not set, set this to OFF.

Power On Volume (POWERONVOL): This sets a designated volume setting for the DTR-5.2 to be set every time that the power is turned on. This prevents the DTR-5.2 from being turned on while it is set to an extremely high volume and suddenly output very loud sounds.

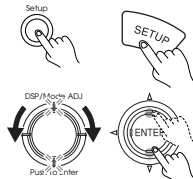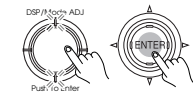1. **Press the Setup (SETUP) button.**

   Turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller to display "3. PREFERENCE."

2. **Press the jog dial or ENTER button on the remote controller.**

   "VOLUME SETUP?" appears in the front display.

3. **Press the jog dial or ENTER button on the remote controller.**

   "MAXIMUM VOL=" appears in the front display.

4. **Turn the jog dial or press the ◄ or ► cursor button on the remote controller to set the maximum volume.**

   The maximum volume can be set between 30 and 79.

5. **Press either the jog dial or the ▼ cursor button on the remote controller.**

   "POWER ON VOL" appears in the front display.

6. **Turn the jog dial or press the ◄ or ► cursor button on the remote controller to set the power on volume.**

   The power on volume can be set between "MIN" and the value set for "MAXIMUM VOL." If you do not mind having the DTR-5.2 turned on with its current volume setting, set this to "LAST."

7. **Press the Return (RETURN) button.**

   "VOLUME SETUP?" appears in the front display.

   To exit the setup mode immediately, press the Setup (SETUP) button.

Headphones Level

You can use this setting to adjust the volume output from the headphones so that it matches the level output from the speakers.

1. **Press the Setup (SETUP) button.**

   Turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller to display "3. PREFERENCE."

2. **Press the jog dial or ENTER button on the remote controller.**

   Turn the jog dial or press the ▼ cursor button on the remote controller to display "HEADPHONES LVL?".

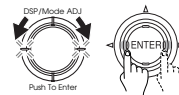3. **Press the jog dial or ENTER button on the remote controller.**

   "HP LEVEL" appears in the front display.

4. **Turn the jog dial or press the ◄ or ► cursor button on the remote controller to set the headphone volume.**

   The headphone volume can be adjusted between –12 and +12 decibels.

5. **Press the Return (RETURN) button.**

   "HEADPHONES LVL?" appears in the front display.

   To exit the setup mode immediately, press the Setup (SETUP) button.

Late Night Setup

Sets "HIGH," "LOW," or "OFF" for the late night function.

Cinema sound has a vast dynamic range; therefore, to hear the quieter sounds such as human conversations, they must be played back at larger volumes. When this parameter is set to "HIGH" or "LOW," the dynamic range of the sound is narrowed down to allow you to easily hear minute sounds at low volumes. This function is especially useful if you wish to play a movie at low volumes during the nighttime.

1. **Press the Setup (SETUP) button.**

   Turn the jog dial or press the ▲ and ▼ cursor buttons on the remote controller to display "3. PREFERENCE."

2. **Press the jog dial or ENTER button on the remote controller.**
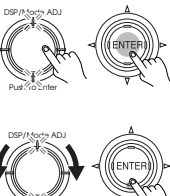
   Turn the jog dial or press the ▼ cursor button on the remote controller to display "LATE NIGHT?".

3. **Press the jog dial or ENTER button on the remote controller.**

   The current setting appears.

4. **Turn the jog dial or press the ◄ or ► cursor buttons on the remote controller to set the late night function.**

5. **Press the Return (RETURN) button.**

   "LATE NIGHT?" appears in the front display.

   To exit the setup mode immediately, press the Setup (SETUP) button.

Notes:
- The depth of the Late Night effect is determined by Dolby Digital software. Some sounds may produce no or little effect.
- The Late Night function is effective only on Dolby Digital encoded

32

Recording

Input source buttons
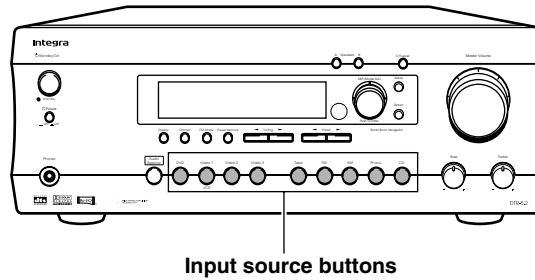
The DTR-5.2 can also be used to record an input source media. This allows you to make copies of the music or videos you like, copy them from one type of media to another, or even record what is being broadcast on television or radio.

Recording an audio source

Make all connections between the tape deck and the receiver as shown in the "Connections" diagram (pages 11-14).

1. Insert a blank tape into the tape deck.

2. Press the input source button for the source you want to record.

*   If you select DVD, Video 1, Video 2, or Video 3, only the audio will be recorded.

*   If you select FM or AM, set the tuner to the station you want to record.

3. Set the tape deck in recording mode. Start playing the source.

Set the proper recording level using the controls on the tape deck.

Recording data from a video disc player (or a video camcorder) to VCR

Video disc programs can be recorded onto a VCR (VIDEO 1).

1. Load a disc in the video disc player or DVD player, and insert a blank tape in the VCR (VIDEO 1).

2. Press the Video 2, Video 3, or DVD button.

3. Start playing the source and recording on the VCR.

Refer to the video equipment connections section on the page 12.

Tip:
If you want to record the video from one source and the audio from another source together, such as recording the video from a video camera connected to VIDEO 2 and the audio from a CD player connected to CD, in step 2 above, select the source for the video and then select the source for the audio. The remaining procedure is the same as that above.

Notes:
*   If you change the input source during recording, you will record the signals from the newly selected input source.

*   You cannot record the surround effects.

*   You cannot perform digital recording with the DTR-5.2. Also, digital-to-analog signal conversion is not possible, so to record audio signals from digital sources (e.g. CD players), you must not only make the digital connection, but the analog connection as well.

*   You cannot record the source connected to the MULTI CHANNEL INPUT connector.

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Using remote controller

Overview

The RC-441M remote controller is a useful tool to help you operate the components of your home theater. To do so, first press the Mode button that corresponds to the device you wish to control. Then simply press the desired operation button and the component will operate accordingly. For example, if you wish to select the CD input source at the DTR-5.2 with the remote controller, first press the RCVR MODE button to select the DTR-5.2 and then press the CD (INPUT SELECTOR) button.
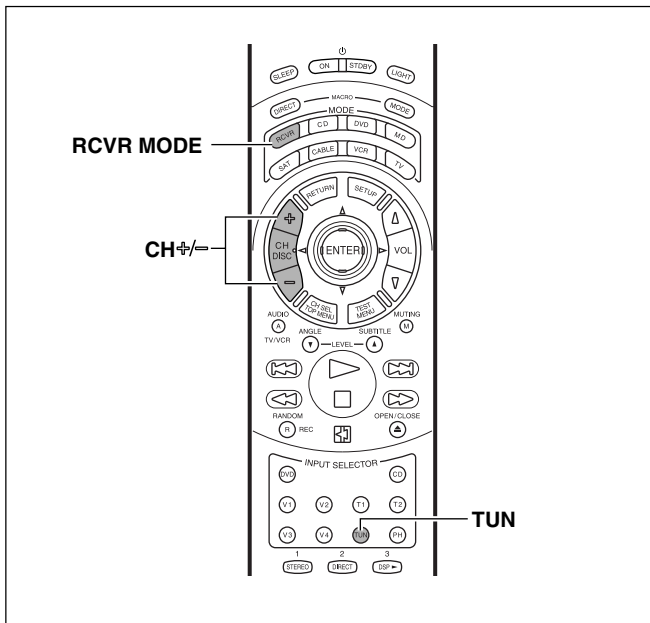
Calling up a preset radio station

1. **Press the RCVR MODE button.**

   The RCVR MODE button lights green.

2. **Press the TUN input selector button.**

3. **Press the CH ✛ or ꞊ button to select the desired preset station number.**
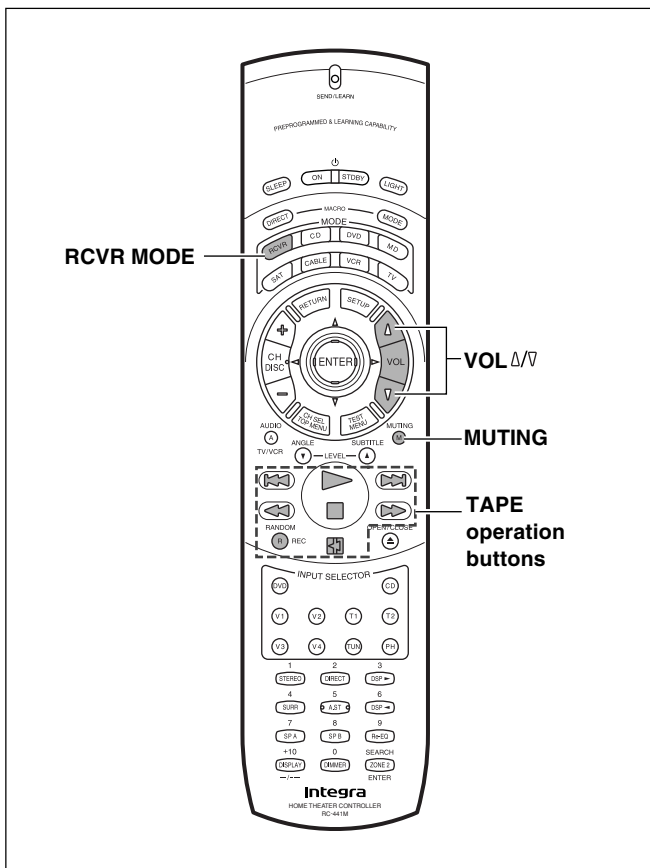
Controlling an Integra/Onkyo cassette tape deck

The ℞ℐ connector of the Integra/Onkyo cassette tape deck must be connected to the DTR-5.2 (see page 14).

1. **Press the RCVR MODE button.**

   The RCVR MODE button lights green.

2. **Press the desired operation button.**

   The buttons shaded in the figure to the left are the operation buttons that can be used to control an Integra/Onkyo cassette tape deck.

Operation buttons:

▷**:** Play

▢**:** Stop

◁◁**:** Rewind

▷▷**:** Fast forward

▷◁**:** Press during playback to skip to the beginning of the next track.

◁▷**:** Press during playback to skip to the beginning of the current track.

REC/R: Record/Pause

⧉**:** Reverse playback

You may also use the following buttons:

VOL △/▽: Adjusts the volume at the DTR-5.2

MUTING: Activates the muting function at the DTR-5.2

Note:
Even for devices with the ▷◁ and ◁▷ buttons, signal discrepancies may cause them not to work properly.

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Using remote controller
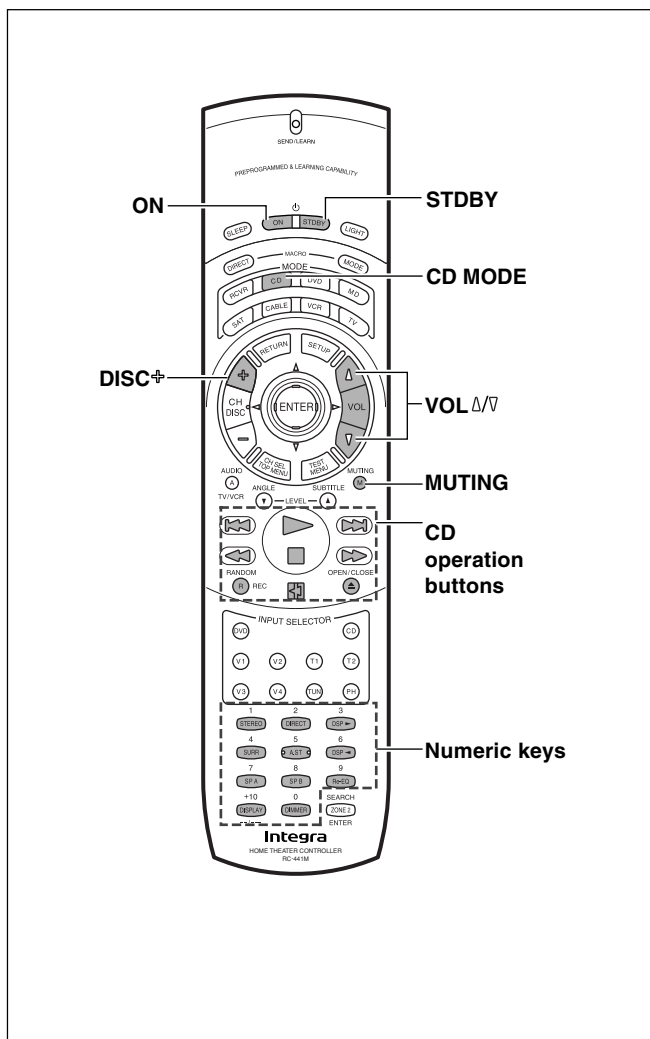
Controlling an Integra/Onkyo CD player

The ꓤI connector of the Integra/Onkyo compact disc player must be connected to the DTR-5.2 (see page 14).

1. Press the CD MODE button.

The CD MODE button lights green.

2. Press the desired operation button.

The buttons shaded in the figure to the left are the operation buttons that can be used to control an Integra/Onkyo compact disc player.

Operation buttons:

ON: Turns on and off the compact disc player (same as **STDBY** button on the remote controller).

DISC ⊕: Selects a disc in the CD changer

⏮: Track down

⏭: Track up

▷: Play

▢: Stop

◁◁: Fast reverse

▷▷: Fast forward

⏸: Pause

OPEN/CLOSE ⏏: Open/close the disc tray

0, 1 to 9, +10: Numeric keys

RANDOM/R: For random playback.

You may also use the following buttons:

VOL △/▽: Adjusts the volume at the DTR-5.2

MUTING: Activates the muting function at the DTR-5.2

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Using remote controller

Controlling an Integra/Onkyo DVD player

The ꛧI connector of the Integra/Onkyo DVD player must be connected to the DTR-5.2 (see page 14).

1. **Press the DVD MODE button.**

   The DVD MODE button lights green.

2. **Press the desired operation button.**

   The buttons shaded in the figure to the left are the operation buttons that can be used to control an Integra/Onkyo DVD player.

Operation buttons:

ON: Turns the DVD player on and off.

STDBY: Turns the DVD player off. (Some sets may not respond to this button. In this case, use the ON button to put the DVD player in the standby state.)

SETUP: Displays the menu.

△/▽/◁/▷: Moves the cursor.

ENTER: Confirms the selection.

RETURN: Return button

TOP MENU or MENU: Displays the menu screen(s) recorded on DVD media.

DISC ✚/━: Selects a disc in the DVD changer.

AUDIO/A: Press repeatedly to select an audio and/or language track recorded on a DVD-Audio/Video.

ANGLE: Press repeatedly to select a camera angle when a DVD-Video is recorded with multiple angle playback.

SUBTITLE: Press repeatedly to select one of the subtitle languages recorded on a DVD-Video.

SEARCH: Press to find the specific section on a disc where you want to start playback.

RANDOM/R: Press to start random playback.

◁◁: Chapter/Track down

▷▷: Chapter/Track up

▷: Play

□: Stop

◁◁: Fast reverse

▷▷: Fast forward

⏸: Pause

OPEN/CLOSE ⏏: Open/close the disc tray

0, 1 to 9, +10: Numeric keys

You may also use the following buttons:

VOL △/▽: Adjusts the volume at the DTR-5.2

MUTING: Activates the muting function at the DTR-5.2

Note:
When operating an Integra/Onkyo DVD player directly with the remote controller without connecting the ꛧI terminals, pre-programming is necessary (see page 38).

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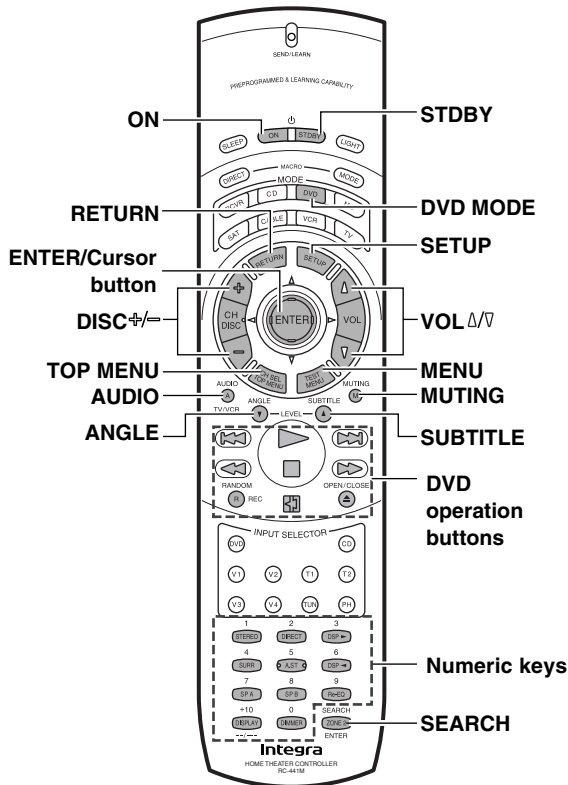
Using remote controller
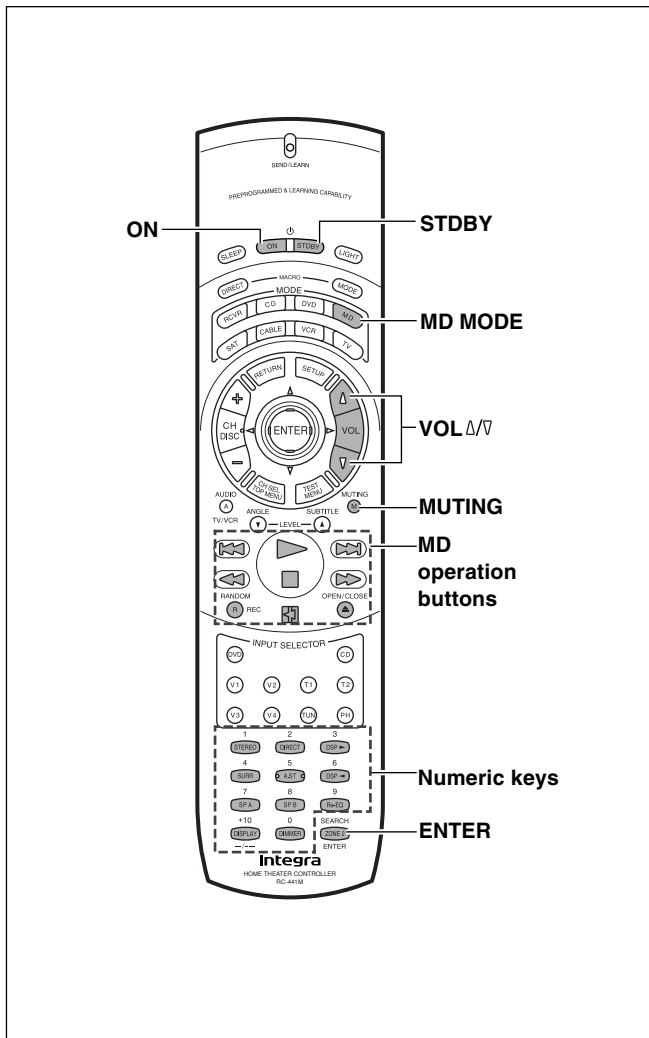
Controlling an Integra/Onkyo MD recorder

The ℞I connector of the Integra/ONKYO MD recorder must be connected to the DTR-5.2 (see page 14).

1. Press the MD MODE button.

The MD MODE button lights green.

2. Press the desired operation button.

The buttons shaded in the figure to the left are the operation buttons that can be used to control an Integra/Onkyo MD recorder.

Operation buttons:

ON: Turns on and off the MD player (same as **STDBY** button on the remote controller).

◁◁: Track down

▷▷: Track up

▷: Play

☐: Stop

◁◁: Fast reverse

▷▷: Fast forward

REC/R: Record

☐: Pause

⏏: Eject the disc

1 to 9, 0, --/---: Numeric keys

ENTER: Enters the settings

You may also use the following buttons:

VOL △/▽: Adjusts the volume at the DTR-5.2

MUTING: Activates the muting function at the DTR-5.2
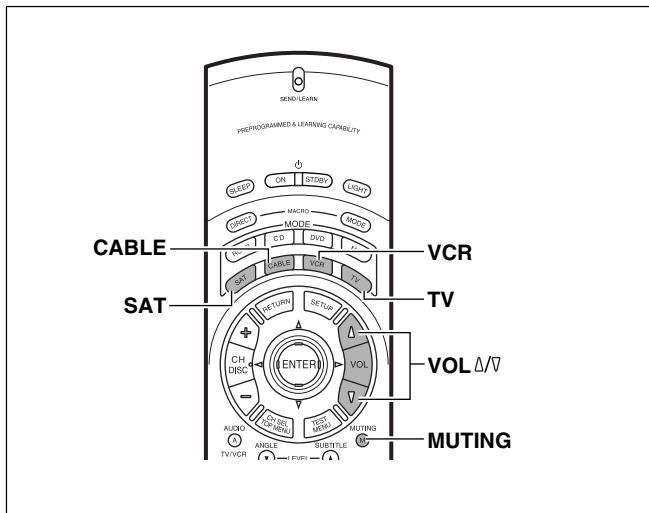
SAT, CABLE, VCR, and TV MODE buttons

No preset codes are programmed into the SAT, CABLE, VCR, and TV MODE buttons. You can use these buttons to program the remote controller signals of other devices.

There are two methods. One method is selecting the name of a different brand from the table, entering the setting number listed, and calling up the pre-programming code (see page 38). The other method is learning the commands from the other brand's remote control directly into this remote controller (see page 42).

When in the SAT, CABLE and VCR mode, you may use the following buttons:

VOL △/▽: Adjusts the volume at the DTR-5.2

MUTING: Activates the muting function at the DTR-5.2

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Learning a pre-programming code

The remote controller has three learning functions. One is entering the signal number for a remote controller of another brand that is pre-programmed. Another is a normal learning function that enables the remote controller to learn the codes from other remote controllers. And the last is a macro learning function that enables you to program a series of operations into the remote controller so that the operations can all be performed at once by pressing one button.

Caution
With some brand's components, some buttons may not work correctly. In this case, program the command separately.

By learning a pre-programming code, you can make the RC-441M remote controller able to operate a product from another brand. The buttons that are used for operation are given on the next page.

1. **Find the 3-digit number for the brand name of the component that you want to operate in the table on the next page.**

2. **Turn on the component that you want to operate (i.e. DVD, satellite tuner, or television).**

3. **While holding down the MODE button on the RC-441M that you want to program, press the DISPLAY button, and then release both buttons.**

   The SEND/LEARN indicator lights when the MODE button is pressed and turns off when the DISPLAY button is pressed. Wait until the indicator turns off before releasing both buttons. Then the SEND/LEARN indicator lights again.

4. **Within 30 seconds, enter the 3-digit code number.**

   The SEND/LEARN indicator flashes twice slowly. If the SEND/LEARN indicator quickly flashes three times, then either a mistaken 3-digit code was entered or an incorrect operation was performed. If this occurs, return to step 3.

5. **Press the button that you programmed and check if the system operates correctly.**

   • If the component does not operate properly, return to step 3 and repeat the steps above.
   • If it still does not operate properly, then program the commands one by one to the buttons on the RC-441M remote controller.

When entering the code of Integra/Onkyo DVD players:
There are three SETTING numbers. Choose the SETTING number according to how you will be using the DVD player.

No. 601/613: These codes are for operating the Integra/Onkyo DVD player by pointing the remote controller directly at it, either because it does not have an RI terminal, or it does but you are not using an RI cable and connecting it. First enter 601 and if it does not operate properly, enter 613.

No. 600: This code is for Integra/Onkyo DVD players that have an RI terminal that you are connecting to the DTR-5.2 with an RI cable. You will then operate the DVD player by pointing the remote controller at the remote control sensor on the DTR-5.2. You do not need to enter this code because it is factory preset. However, if the code has been changed to 601 or 613, then you will need to change it back to 600.

Learning a pre-programming code

Pre-programmong codes

Note:
If more than one code is given in the table, try the code one by one until you reach the code for your component (i.e. if the first code does not work, then try the next).

DVD

BRAND	SETTING No.
DENON	602, 609
HITACHI	603
JVC	604
KENWOOD	605
MAGNAVOX	606, 613
MARANTZ	607
MITSUBISHI	608, 613
INTEGRA	600, 601, 613
ONKYO	600, 601, 613
PANASONIC	609
PIONEER	610
PROSCAN	611
RCA	611
SONY	612
TOSHIBA	613
YAMAHA	609, 614
ZENITH	613, 615

SAT

BRAND	SETTING No.
ECHOSTAR	700
GENERAL INSTRUMENTS	701
HITACHI	702
HUGHES NETWORK SYSTEMS	703
PANASONIC	704
PRIMESTAR	705
PROSCAN	706, 707
RCA	706, 707
SONY	708
TOSHIBA	709

CABLE

BRAND	SETTING No.
GENERAL INSTRUMENTS	500
GEMINI	501
HAMLIN	502, 503, 504, 505
JERROLD	500, 506, 507, 508, 509, 510, 511, 512, 513, 514
MACOM	515, 516, 517
MAGNAVOX	518
OAK	519, 520, 521
PANASONIC	522, 523
PHILIPS	524, 525, 526, 527, 528, 529
PIONEER	530, 531
SCIENTIFIC ATLANTA	532, 533, 534
SAMSUNG	535
TOCOM	536
ZENITH	537, 538

VCR

BRAND	SETTING No.
AIWA	300, 301, 302
AKAI	303, 304, 305, 306, 307
BAIRD	308
BELL & HOWELL	309
BLAUPUNKT	310
CGM	311, 312, 313
COLTINA	314
DAEWOO	315, 316
DIGITAL	317
EMERSON	318, 319, 320, 321, 322
FENNER	323
FISHER	324, 325, 326, 327
FUJITSU GENERAL	328
FUNAI	329
GE	330, 331
GO VIDEO	332, 336, 337
GOLDSTAR	333, 334
GOODMANS	335
GRUNDIG	338
HITACHI	339, 340, 341
JVC	342, 343, 344, 345, 346, 347, 348, 349, 350
LOEWE	351, 352
MAGNAVOX	353, 354, 355
MITSUBISHI	356, 357, 358, 359, 360, 361, 362, 363, 364
NEC	365, 366, 367
NOKIA	313
NORDMENDE	368, 369, 370
OKANO	371, 372
ORION	319, 373
PANASONIC	374, 375, 376, 377, 378
PHILIPS	353, 379, 380
PHONOLA	311
PIONEER	381
RCA	382
SABA	383
SAMSUNG	384, 385, 386, 387, 388, 389, 390
SANYO	391, 392, 393
SCOTT	394
SELECO	395
SHARP	396, 397, 398, 399
SHINTOM	400
SIEMENS	401
SONY	402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413
SYMPHONIC	414
TEKNIKA	414, 415
TELEFUNKEN	416, 417
TOSHIBA	418, 419, 420
WHITE WESTINGHOUSE	333
WATSON	421
ZENITH	422

TV

BRAND	SETTING No.
AIWA	100, 101
AKAI	102, 103, 104
AUDIOSONIC	105
BELL & HOWELL	106
BLAUPUNKT	107
BRIONVEGA	108, 109
CENTURION	110
COLTINA	111, 112, 113
CORONAD	114
CROWN	115, 116
DAEWOO	117, 118, 119, 120, 121
DUAL	122
EMERSON	123, 124, 125, 126, 127
FENNER	128, 129
FERGUSON	130, 131
FISHER	132
FUNAI	133, 134, 135
FUJITSU GENERAL	136, 137, 138
GE	139, 140, 141
GOLDSTAR	142, 143
GOODMANS	144
GRUNDIG	145, 146
HITACHI	147, 148, 149, 150
HYPER	151
INNO HIT	152
IRRADIO	103
JVC	153, 154, 155, 156, 157
KENDO	158
KTV	159, 160
LUXOR	161
MAGNAVOX	162, 163
MARANTZ	164
MARK	165
MATSUI	166, 167, 168, 169
MITSUBISHI	170, 171, 172, 173
MIVAR	174, 175
NEC	176, 177
NOKIA	178, 179, 180, 181
OCEANIC	181
NORDMENDE	182, 183
OKANO	152
ORION	184, 185, 186
PANASONIC	187, 188, 189, 190
PHILIPS	152, 162, 191
PIONEER	192, 193
PROSCAN	194
QUASAR	195
RADIO SHACK	196
RCA	110, 141, 197, 198, 199, 200
SABA	182, 183, 201
SAMSUNG	202, 203, 204, 205, 206, 207, 208
SANYO	209, 210, 211, 212
SCHNEIDER	103
SEARS	213
SELECO	214, 215
SHARP	216, 217
SONY	218, 219, 220, 221, 222, 223
SYMPHONIC	224, 225
TELEFUNKEN	201, 226, 227
THOMSON	228
TOSHIBA	213, 229
UNIVERSUM	230
ZENITH	231, 232

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Operating your programmed remote controller

After performing the procedure given above, the following modes become enabled for use.

DVD MODE (DVD Player Mode)

Buttons with programmed usage and operations are the same as the operational buttons on page 36.

SAT MODE (Satellite Tuner Mode)

1. Press the SAT MODE button.

The SAT button lights green.

2. Press the desired operation button.

The buttons shaded in the figure to the left are the operation buttons that can be used to control your satellite tuner unit.

The buttons given below have operations programmed into them.

ON: Turns on and off the satellite tuner unit (same as **STDBY** button on the remote controller)

CH +/−: Moves up and down the preset channel numbers

△/▽/◁/▷: Moves the cursor

ENTER: Confirms the selection

MENU: Displays the menu

0,1 to 9: Numeric keys

ENTER: Confirm

You may also use the following buttons:

VOL △/▽: Adjusts the volume at the DTR-5.2

MUTING: Activates the muting function at the DTR-5.2
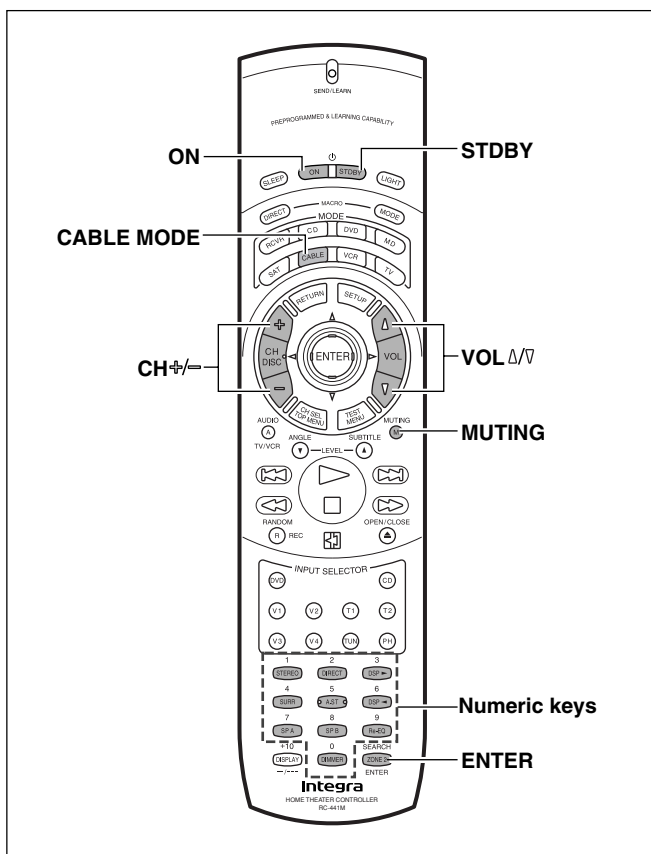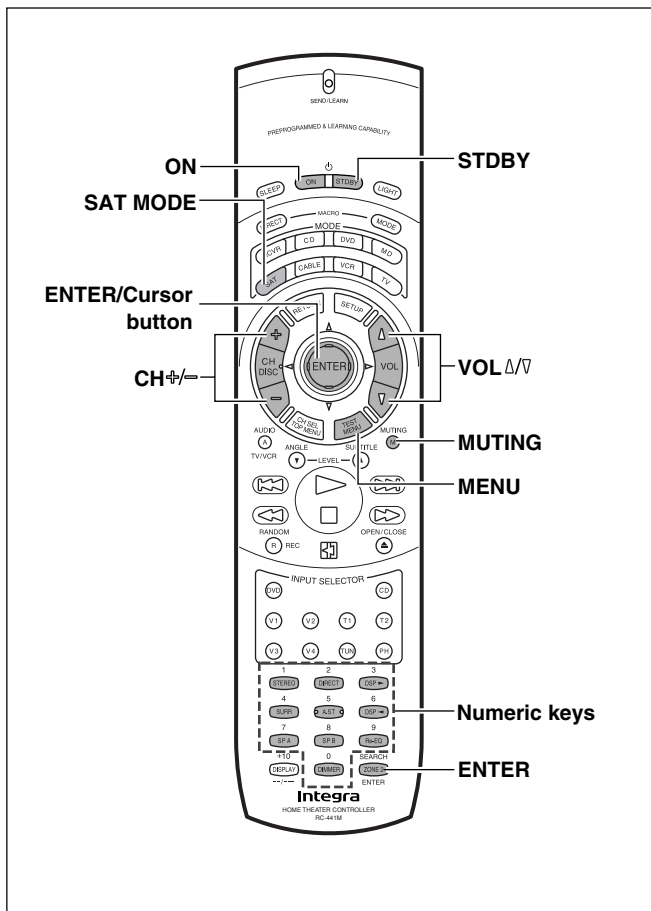
CABLE MODE (Cable Mode)

1. Press the CABLE MODE button.

The CABLE button lights green.

2. Press the desired operation button.

The buttons shaded in the figure to the left are the operation buttons that can be used to control your cable TV unit.

The buttons given below have operations programmed into them.

ON: Turns on and off the cable TV unit (same as **STDBY** button on the remote controller)

CH +/−: Moves up and down the preset channel numbers

0,1 to 9: Numeric keys

ENTER: Confirm

You may also use the following buttons:

VOL △/▽: Adjusts the volume at the DTR-5.2

MUTING: Activates the muting function at the DTR-5.2

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Operating your programmed remote controller
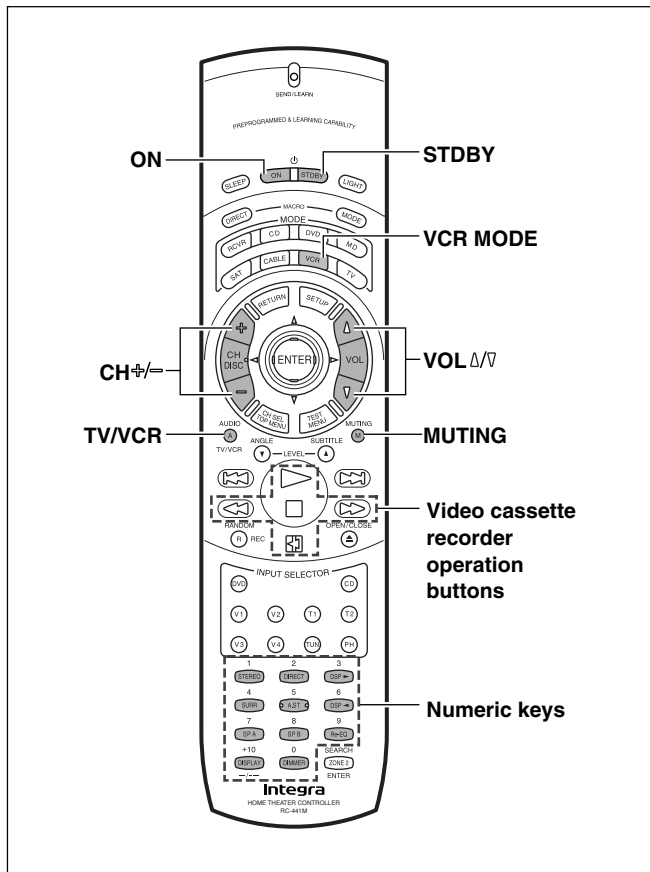
VCR MODE (VCR Mode)

1. Press the VCR MODE button.

The VCR button lights green.

2. Press the desired operation button.

The buttons shaded in the figure to the left are the operation buttons that can be used to control your VCR.

The buttons given below have operations programmed into them.

ON: Turns on and off the VCR (same as **STDBY** button on the remote controller)

CH ⊕/⊖: Moves up and down the preset channel numbers

TV/VCR: Switches the AV input for the VCR

▷**:** Play

☐**:** Stop

◁**:** Rewind

▷▷**:** Fast Forward

⧗**:** Pause

0,1 to 9, +10: Numeric keys

You may also use the following buttons:

VOL △/▽: Adjusts the volume at the DTR-5.2

MUTING: Activates the muting function at the DTR-5.2
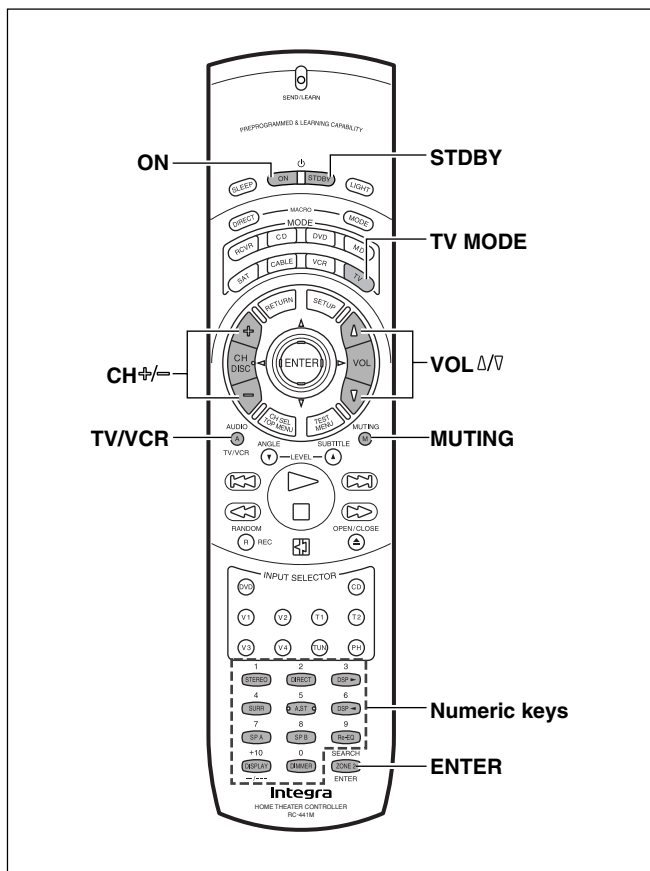
TV MODE (TV Mode)

1. Press the TV MODE button.

The TV button lights green.

2. Press the desired operation button.

The buttons shaded in the figure to the left are the operation buttons that can be used to control your television.

The buttons given below have operations programmed into them.

ON: Turns on and off the television (same as **STDBY** button on the remote controller)

CH ⊕/⊖: Moves up and down the television channels

TV/VCR: Switches the TV/VCR input for the television

0,1 to 9, +10: Numeric keys

ENTER: Confirm

VOL △/▽: Adjusts the volume at the television

MUTING: Activates the muting function at the television

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Programming the commands of remote controllers for other devices into the remote controller

2 to 6 inches (5 to 15 cm)

SEND/LEARN indicator

MODE buttons

ENTER

When programming the commands of another remote controller to the RC-441M remote controller, you must first decide under which MODE button you want the commands to be linked. In general, you will select the MODE button that corresponds to the component you are programming. For example, if you are programming the functions from a remote controller for a compact disc player, you would choose the CD MODE button. Then, by pressing the CD MODE button, the buttons on the RC-441M remote controller will change to the commands you program here to operate the compact disc player.

After programming which MODE button to use, you will then transfer the separate commands from the other remote controller over to the RC-441M remote controller one at a time. Each command is then programmed to a different button on the RC-441M remote controller. Any button is programmable for this step except for the eight MODE buttons (RCVR, CD, DVD, MD, SAT, CABLE, VCR, and TV), the two MACRO buttons (DIRECT and MODE), and the LIGHT button.

Even after the commands have been memorized, keep your old remote controller in a safe place. If for some reason the commands are lost (e.g., when the batteries run down), it will be necessary to memorize them once again.

1. **Place the remote controller and the remote controller for the other device facing each other at a distance of 2 to 6 inches (5 to 15 cm) apart.**

2. **While pressing and holding down the desired MODE button on the remote controller, press the ENTER button and then release both buttons.**

   When you press and hold down the MODE button, the SEND/LEARN indicator lights. When you press the ENTER button, the lamp turns off. When you release the buttons, the lamp lights again.

3. **Press and release the button on the remote controller to which you want to transfer the next command.**

   You may select any button but the eleven ones indicated in the figure below. When you press the button, the SEND/LEARN indicator turns off. When you release the button, the indicator lights again.

   If you press the wrong button by mistake, press that same button again. The SEND/LEARN indicator flashes twice, and the remote controller exits the programming mode.
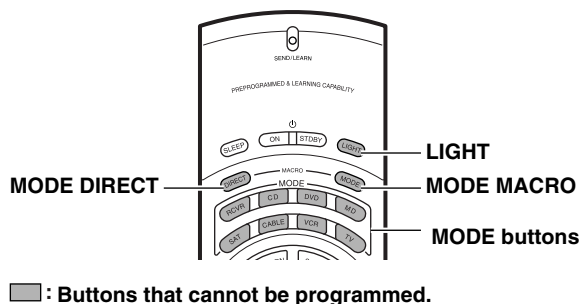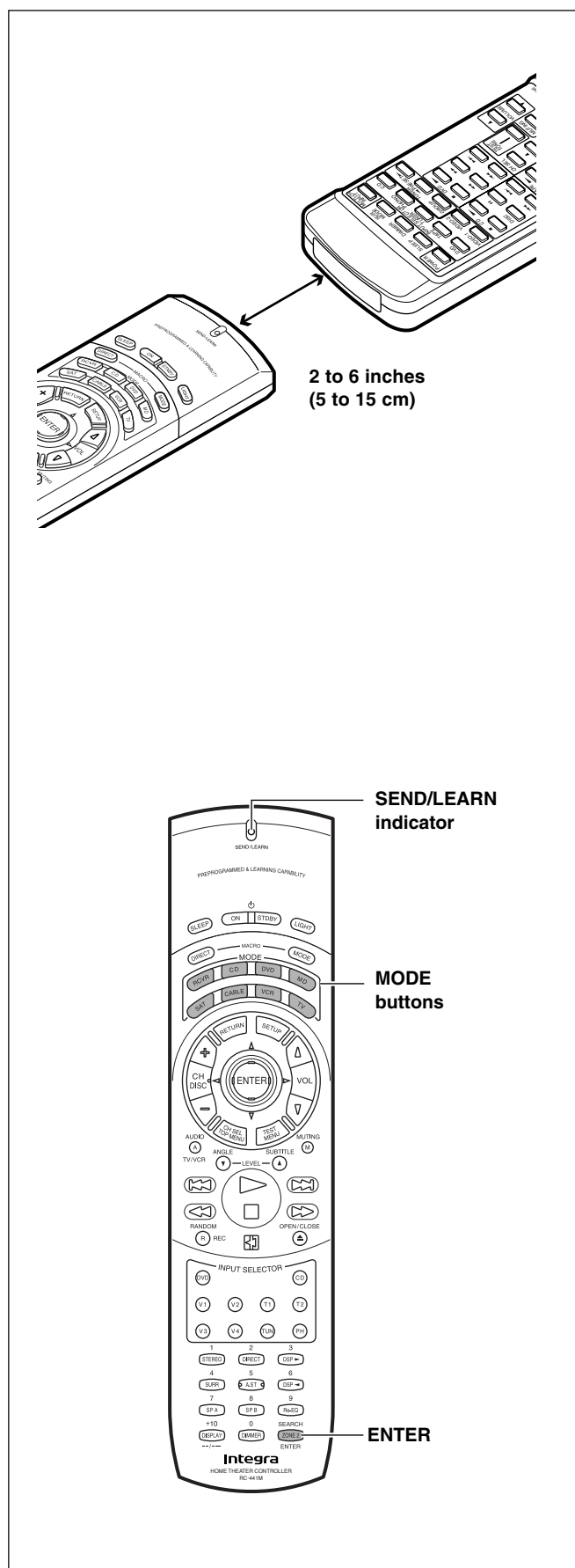
LIGHT

MODE MACRO

MODE buttons

MODE DIRECT

▨ : **Buttons that cannot be programmed.**

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Programming the commands of remote controllers for other devices into the remote controller

4. **Press and hold down the button (that corresponds to the command you are programming) on the remote controller of the other device until the SEND/LEARN lamp on the remote controller flashes twice.**

   After flashing twice, the SEND/LEARN indicator will light again.

5. **Repeat Steps 3 and 4 to transfer all the commands you desire from the other remote controller and program them to buttons on the remote controller under the same MODE.**

   Repeat Steps 2 through 4 to program commands to a different MODE (e.g., when programming from a different remote controller).

6. **Press the MODE button that you pressed in step 2 to complete the programming.**

7. **Operate the newly programmed buttons to make sure the learning function was performed properly.**

Notes:
- The remote controller codes for Integra/Onkyo compact disc players, cassette tape decks, DVD players, and mini disc recorder have already been programmed into buttons on the remote controller. You may, however, use these buttons to program the codes for other remote controllers. If you wish to restore the Integra/Onkyo preset codes after you program new codes, you must first erase the new codes (see page 44).

- The remote controller has 408 memory slots (8 modes × 51 buttons). Some remote controllers may have more commands that can be remembered by the remote controller. In such cases, it will be necessary for you to determine which commands are more important than others.

- If no button is pressed for more than 30 seconds during the programming, or if you perform an invalid operation during programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 2.

- If a failure occurs during programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 3.

- If a failure occurs five times in row during programming, the remote controller exits the programming mode. Resume from Step 3.

- If you try to program beyond the learning capacity of the remote controller, the SEND/LEARN indicator flashes six times quickly, and the remote controller exits the programming mode. Try programming under a different MODE button.

- When you want to program a command to a button to which you have already programmed a command, simply follow the same procedure given and programming for that button will be overwritten.

- The remote controller uses infrared rays to send its commands, as do most other remote controllers. Though most remote controller codes can be memorized by the remote controller, be aware that some remote controllers use a system that is quite different from the remote controller and therefore may not be able to be programmed.

- Some remote controllers have a single button that performs multiple functions (for example, the function may change each time the button is pressed). If this is the case, each function must be programmed to a separate button on the remote controller.

- Once you have transferred the commands from the other remote controller, refer to the instruction manual that came with that product for instructions on how to operate that product.

- Make sure both the remote controller and the other remote controller have new batteries. If either of them has batteries that are low, you may not be able to program the commands of the other remote controller properly into the remote controller.

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Programming the commands of remote controllers for other devices into the remote controller

SEND/LEARN indicator

MODE buttons

ENTER

Erasing the programmed command from one button
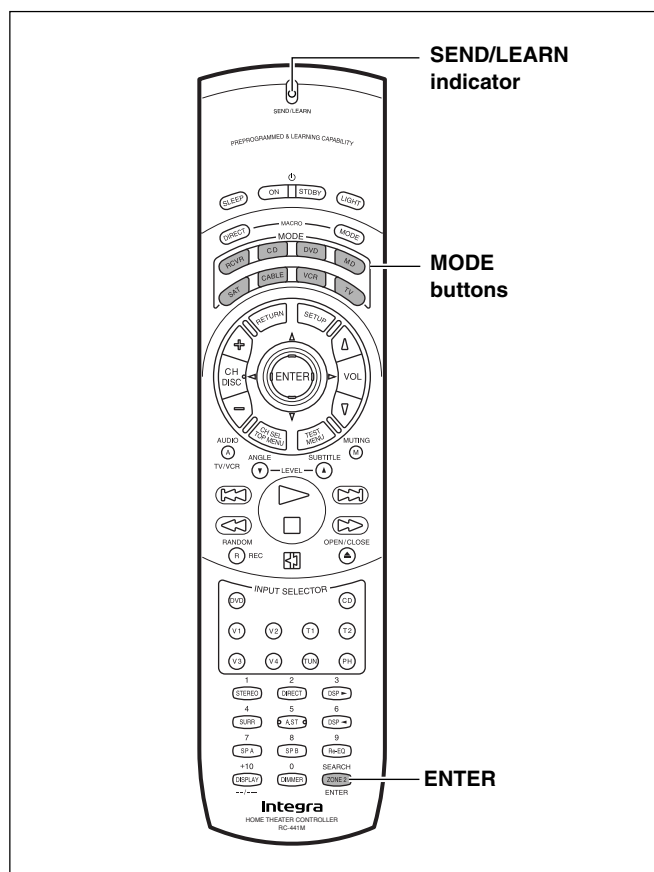
You can only erase memorized commands and not preset ones.

1. **Press and hold down the desired MODE button for the command, press the ENTER button, and then release both buttons.**

   When you press the MODE button, the SEND/LEARN indicator lights. When you press the ENTER button, the lamp turns off. When you release the buttons, the lamp lights again.

2. **Press and release the button for the command you wish to erase.**

   When you press the button, the SEND/LEARN indicator turns off. When you release the button, the lamp lights again.

3. **Press and release the same button again.**

   The SEND/LEARN lamp flashes twice slowly. The memorized command is erased.

Note:
If no button is pressed for more than 30 seconds during the erasing procedure, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the erasing mode. Resume from Step 1.

SEND/LEARN indicator

MODE buttons

ENTER

Erasing all the commands programmed under a MODE button

1. **Press and hold down the desired MODE button, press the ENTER button twice, and then release both buttons.**

   When you press the MODE button, the SEND/LEARN indicator lights. When you press the ENTER button, the lamp turns off. When you release the buttons, the lamp flashes twice slowly and then lights again.

2. **Press and release the same MODE button again.**

   When you release the button, the SEND/LEARN indicator flashes twice slowly. This erases all the commands memorized to the MODE button.

Notes:
- If no button is pressed for more than 30 seconds during the erasing procedure, the SEND/LEARN indicator flashes three times quickly and the remote controller exits the erasing mode. Resume from Step 1.
- If you perform an invalid operation during erasing, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the erasing mode. Resume from Step 1.
- If many commands have been programmed to the MODE button, then the SEND/LEARN indicator may remain lit for up to 20 seconds during Step 2. This is not a malfunction.

44

Using a Macro function

What is a Macro function?

A Macro function enables you to program a series of button operations (up to 16) on the remote controller into a single button. For example, to play a compact disc player connected to the DTR-5.2 normally, you must perform the following steps:

1. **Press the RCVR MODE button.**

2. **Press the ON button.**

3. **Press the CD (INPUT SELECTOR) button.**

4. **Press the CD MODE button.**

5. **Press the playback (▷) button.**

By using the macro function, you can perform the above five operations by **only pressing two buttons**.
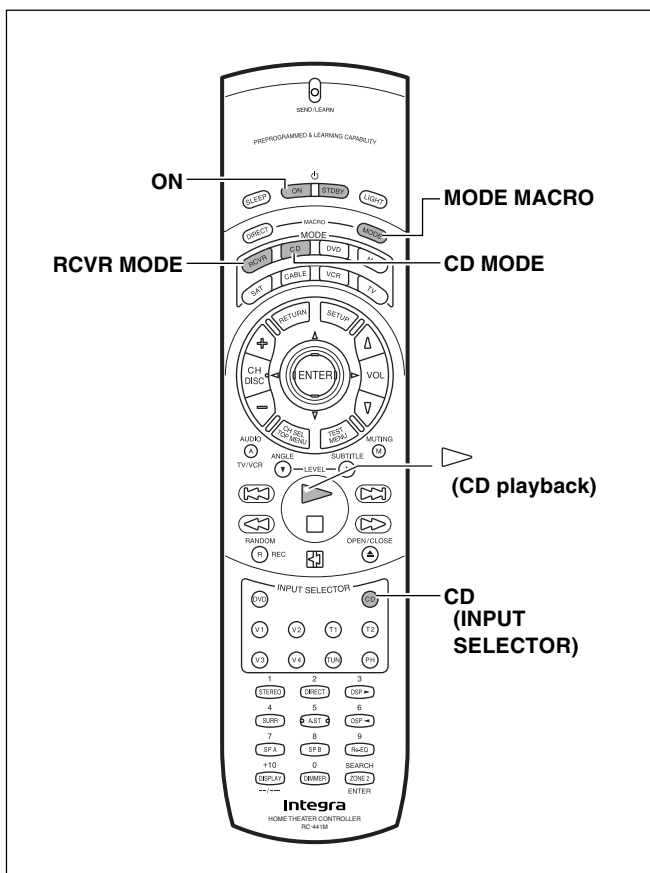
Tips:
- If you erase or change the command of a button programmed in a macro, that operation of that button will no longer work in the macro. In this case, it will be necessary for you to reprogram the macro in order to avoid incorrect operation.
- The codes programmed into a macro will be transmitted at an interval of 0.5 seconds. However, some devices may not be able to complete one operation in 0.5 seconds and may miss the next code. In this case, after pressing one operation button, you can press the same MODE button again before pressing the next operation button to add another 0.5 seconds between the two operations.

Programming a Macro function

You can program a different macro into the MODE MACRO button for each of the eight MODE buttons. The macro is then executed by pressing the appropriate MODE button and then pressing the MODE MACRO button. For example, to program the macro described above into the CD MODE button, perform the steps given below.

1. **Press and hold down the desired MODE button (in this case, the CD MODE button), press the MODE MACRO button, and then release both buttons.**

    When you press the CD MODE button, the SEND/LEARN indicator lights and the CD MODE button lights green. When you press the MODE MACRO button, the indicator turns off. When you release the buttons, the indicator flashes and lights again.

2. **Press the operation buttons you wish to program in order (in this case, press RCVR MODE → ON → CD (INPUT SELECTOR) → CD MODE → playback (▷) button).**
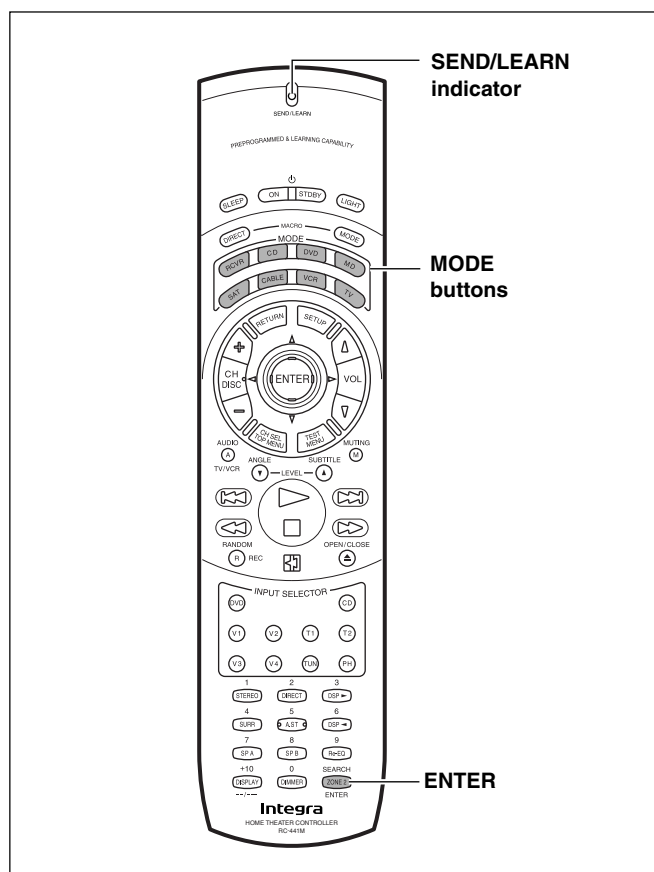
    When you press each button, the SEND/LEARN indicator turns off. When you release the button, the indicator lights.

3. **Press the MODE MACRO button to complete the programming.**

    The SEND/LEARN indicator flashes twice slowly.

4. **Run the macro to check to see if the macro has been properly programmed.**

Notes:
- You may program up to 16 button operations into each macro function. If you try to program a 17th operation, it will be ignored, and programming is stopped.
- If no button is pressed for more than 30 seconds during the programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 1.
- If you perform an invalid operation during programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 1.

Running a Macro function

Perform the procedure below to run a macro function that you have programmed into the remote controller. After programming a macro, you should always run it at least once to make sure that it has been programmed properly.

1. **Point the remote controller at the DTR-5.2 and press the CD MODE button.**

2. **Press the MODE MACRO, and verify that the devices operate properly.**

    It may take a while for the macro to finish transmitting, so be sure to continue pointing the remote controller at the device until the SEND/LEARN indicator turns off.

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Using a Macro function
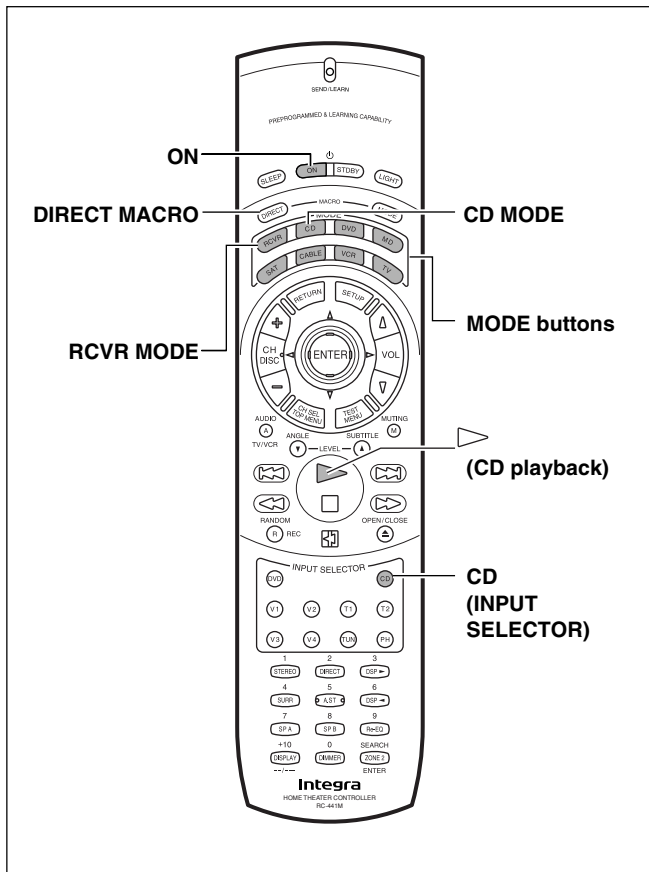
Tips:
- If you erase or change the command of a button programmed in the direct macro, that operation of that button will no longer work in the macro. In this case, it will be necessary for you to reprogram the direct macro in order to avoid incorrect operation.
- The codes programmed into a direct macro will be transmitted at an interval of 0.5 seconds. However, some devices may not be able to complete one operation in 0.5 seconds and may miss the next code. In this case, after pressing one operation button, you can press the same MODE button again before pressing the next operation button to add another 0.5 seconds between the two operations.

Programming the Direct Macro function

With the direct macro function, you can program a series of button operations as a macro into the DIRECT MACRO button so the macro can be executed with just one touch. Note that for the direct macro function, only one macro can be programmed. For example, to program the macro described on the previous page for the DIRECT MACRO button, perform the steps given below.

1. **Press and hold down any one of the eight MODE buttons, press the DIRECT MACRO button, and then release both buttons.**

   When you press the MODE button, it lights green and the SEND/LEARN indicator lights. When you press the DIRECT MACRO button, the indicator turns off. When you release the buttons, the indicator flashes briefly and then lights again.

2. **Press the operation buttons you wish to program in order (in this case, press RCVR MODE → ON → CD (INPUT SELECTOR) → CD MODE → playback (▷) button).**

   When you press each button, the SEND/LEARN indicator turns off. When you release the button, the indicator lights.

3. **Press the DIRECT MACRO button to complete the procedure.**

   The SEND/LEARN indicator flashes twice slowly.

4. **Check to see if the macro has been properly programmed.**

Notes:
- You may program up to 16 button operations into the direct macro function. If you try to program a 17th operation, it will be ignored, and programming is stopped.
- If no button is pressed for more than 30 seconds during the programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 1.
- If you perform an invalid operation during programming, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the programming mode. Resume from Step 1.

Running a Direct Macro function

Perform the procedure below to run a direct macro function that you have programmed into the remote controller. After programming a direct macro, you should always run it at least once to make sure that it has been programmed properly.

1. **Point the remote controller at the DTR-5.2 and press the DIRECT MACRO button.**

   It may take a while for the macro to finish transmitting, so be sure to continue pointing the remote controller at the device until the SEND/LEARN indicator turns off.

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Using a Macro function

MODE MACRO
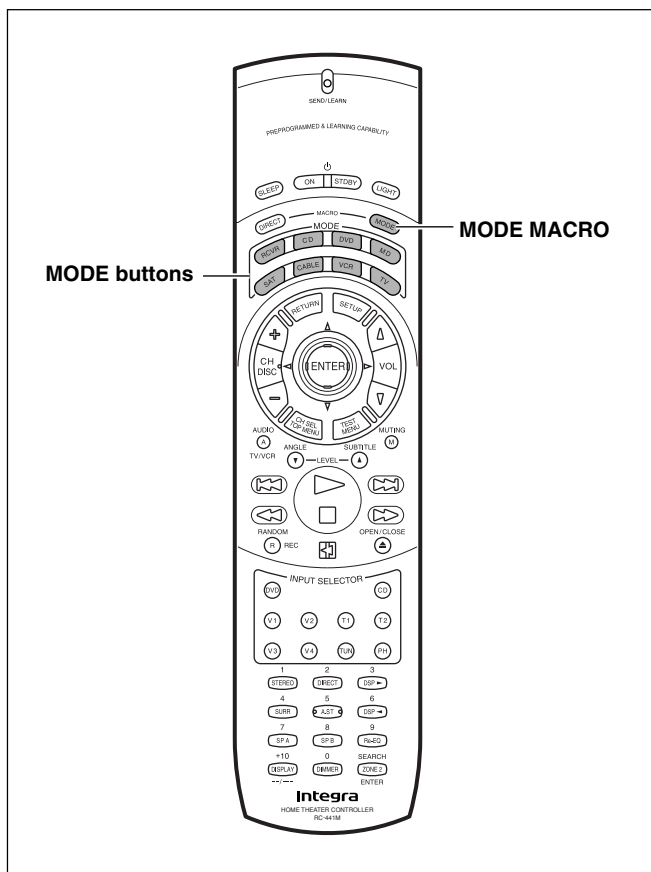
MODE buttons

Erasing a macro from the MODE MACRO button

1. **Press and hold down the desired MODE button, press the MODE MACRO button, and then release both buttons.**

   When you press the MODE button, it lights green and the SEND/LEARN indicator lights. When you press the MODE MACRO button, the indicator turns off. When you release the buttons, the indicator flashes once.

2. **Press the MODE MACRO button again.**

   The SEND/LEARN indicator flashes twice slowly. The macro programmed to the MODE button pressed in Step 1 above is erased.

   Notes:
   • If no button is pressed for more than 30 seconds during the erasing procedure, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the erasing mode. Resume from Step 1.
   • Be aware that if you press a button other than MODE MACRO button in Step 2, then you will in effect be overwriting the previous macro with a new macro.

DIRECT MACRO
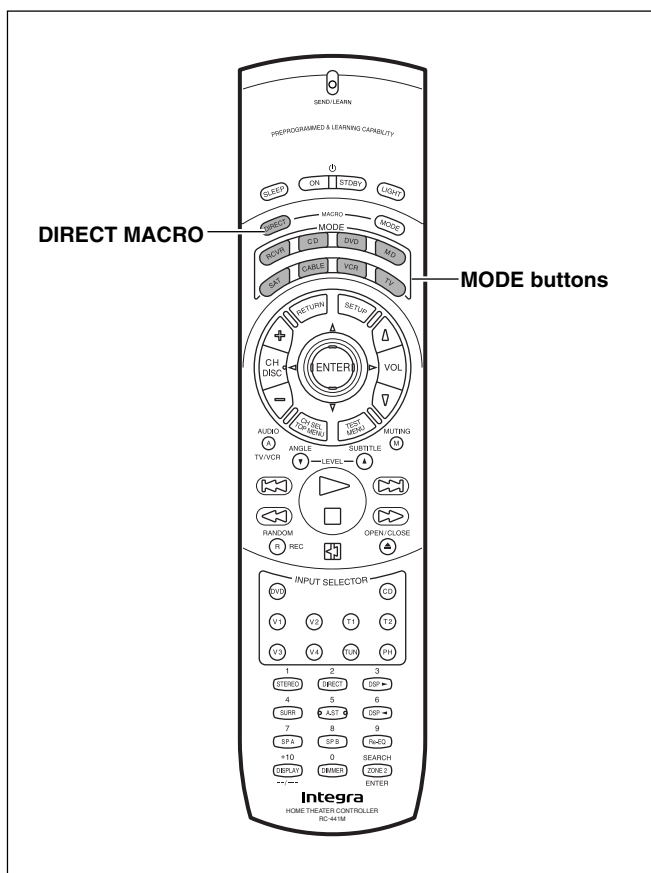
MODE buttons

Erasing a direct macro from the DIRECT MACRO button

1. **Press and hold down any one of the eight MODE buttons, press the DIRECT MACRO button, and then release both buttons.**

   When you press the MODE button, it lights green and the SEND/LEARN indicator lights. When you press the DIRECT MACRO button, the indicator turns off. When you release the buttons, the indicator flashes once.

2. **Press the DIRECT MACRO button again.**

   The SEND/LEARN indicator flashes twice slowly. The macro programmed to the DIRECT MACRO button is erased.

   Notes:
   • If no button is pressed for more than 30 seconds during the erasing procedure, the SEND/LEARN indicator flashes three times quickly, and the remote controller exits the erasing mode. Resume from Step 1.
   • Be aware that if you press a button other than DIRECT MACRO button in Step 2, then you will in effect be overwriting the previous direct macro with a new direct macro.

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Using a Macro function

ON — **STDBY**

ENTER
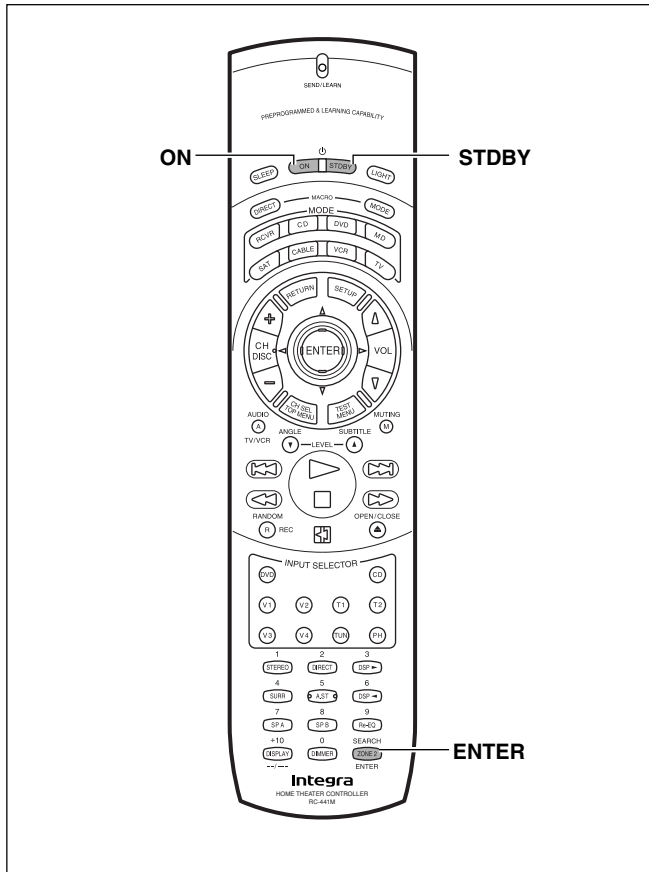
Erasing all commands and macros that have been programmed

This procedure will erase all the commands and macros that you have programmed into the remote controller and return it to its default settings. This operation will not affect the preset settings of the remote controller.

1. **Open the battery cover and remove the batteries from the remote controller.**

2. **While pressing and holding down the ON and STDBY buttons, re-insert the batteries in their correct orientation, and then release both buttons.**

    The SEND/LEARN indicator flashes slowly.

3. **Press the ENTER button.**

    The SEND/LEARN indicator lights up for about ten seconds and then turns off.

All programmed commands and macros are erased and the remote controller returns to its factory presets.

Notes:
*   Proceed to Step 3 immediately after Step 2; otherwise, the batteries will be consumed quickly.
*   If you press any button other than the ENTER button in Step 3, nothing will be erased. In this case, resume from Step 1.

Macro mode programming memo:

MACRO	MODE MACRO ↓ RCVR	MODE MACRO ↓ CD	MODE MACRO ↓ DVD	MODE MACRO ↓ MD	MODE MACRO ↓ SAT	MODE MACRO ↓ CABLE	MODE MACRO ↓ VCR	MODE MACRO ↓ TV	DIRECT MACRO
Operation 1									
Operation 2									
Operation 3									
Operation 4									
Operation 5									
Operation 6									
Operation 7									
Operation 8									
Operation 9									
Operation 10									
Operation 11									
Operation 12									
Operation 13									
Operation 14									
Operation 15									
Operation 16									

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Specifications

AMPLIFIER SECTION

Continuous Average Power output (FTC)

All channels:	**75 W per channel min. RMS at 8 Ω, 2 channels driven from 20 Hz to 20 kHz with no more than 0.08% total harmonic distortion. 100 W min. RMS at 6 Ω, 2 channels driven from 1 kHz with no more than 0.1% total harmonic distortion.**
Continuous Power output (DIN)	110 W at 6 Ω
Maximum Power output (EIAJ)	140 W at 6 Ω
Dynamic Power Output (Stereo)	2 × 210 W at 3 Ω
	2 × 155 W at 4 Ω
	2 × 90 W at 8 Ω
Total Harmonic Distortion:	0.08% at rated power
	0.08% at 1 W output
IM Distortion:	0.08% at rated power
	0.08% at 1 W output
Damping Factor:	60 at 8 Ω

Input Sensitivity and Impedance

PHONO:	2.5 mV, 50 kΩ
LINE (CD, TAPE, DVD, VIDEO 1, 2, 3):	200 mV, 50 kΩ
MULTICHANNEL INPUT (FRONT L/C/R, SURROUND L/R):	200 mV, 50 kΩ
(SUBWOOFER):	36 mV, 50 kΩ
COAXIAL 1, 2 (DIGITAL):	0.5 Vp-p, 75 Ω
DVD, VIDEO1, 2, 3:	1 Vp-p, 75 Ω
	1 Vp-p, 75 Ω (Y)
	0.28 Vp-p, 75 Ω (C)

Output Level and Impedance

Rec out (TAPE, VIDEO 1):	200 mV, 2.2 kΩ
Pre out:	1 V, 470 Ω
VIDEO (VIDEO 1, MONITOR OUT):	1 Vp-p, 75 Ω
	1 Vp-p, 75 Ω (Y)
	0.28 Vp-p, 75 Ω (C)
Phono Overload:	180 mV RMS at 1 kHz, 0.5% T.H.D.
Frequency Response:	10 Hz to 100 kHz: +1 dB,-3 dB
RIAA Deviation:	20 Hz to 20 kHz : ±0.8 dB

Tone Control

Bass:	±10 dB at 50 Hz
Treble:	±10 dB at 20 kHz

Signal-to-Noise Ratio (Stereo)

Phono:	80 dB (IHF A, 5 mV input)
CD/Tape:	100 dB (IHF A, 0.5 V input)
Muting:	−50 dB

TUNER SECTION

FM

Tuning Range:	87.5 to 108.0 MHz (50-kHz steps)

Usable Sensitivity

Mono:	11.2 dBf, 1.0 µV (75 Ω IHF)
	0.9 µV (75 Ω DIN)
Stereo:	17.2 dBf, 2.0 µV (75 Ω IHF)
	23 µV (75 Ω DIN)

50 dB Quieting Sensitivity

Mono:	17.2 dBf, 2.0 µV (75 Ω)
Stereo:	37.2 dBf, 20 µV (75 Ω)
Capture Ratio:	2.0 dB
Image Rejection Ratio:	40 dB
IF Rejection Ratio:	90 dB

Signal-to-Noise Ratio

Mono:	76 dB
Stereo:	70 dB
Alternate Channel Attenuation:	55 dB
Selectivity:	50 dB (DIN)
AM Suppression Ratio:	50 dB

Total Harmonic Distortion

Mono:	0.2%
Stereo:	0.3%
Frequency Response:	30 Hz to 15 kHz, ±1.0 dB
Stereo Separation:	45 dB at 1 kHz
	30 dB at 100 Hz to 10 kHz

AM

Tuning Range:	530 to 1,710 kHz (10-kHz steps)
Usable Sensitivity:	30 µV
Image Rejection Ratio:	40 dB
IF Rejection Ratio:	40 dB
Signal-to-Noise Ratio:	40 dB
Total Harmonic Distortion:	0.7%

GENERAL

Power Supply:	AC 120 V, 60 Hz
Power Consumption:	4.7 A
Dimensions (W × H × D):	17-1/8" × 6-7/8" × 17
Weight:	25.1 lbs.

REMOTE CONTROLLER

Transmitter:	Infrared
Signal range:	Approx. 5 meters, 16 ft.
Power supply:	Two "AA" batteries (1.5 V × 2)

Specifications and features are subject to change without notice.

Power supply and voltage vary depending on the area in which the unit is purchased.

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Troubleshooting guide

If a problem occurs while you are using the remote controller, first try to operate the controls on the front panel of the DTR-5.2 to make sure that it is not due to a malfunction (or worn out batteries) in the remote controller.

POWER

Power shuts off immediately after power on.

- Amplifier protection circuitry has been activated.
  → Remove the power cord from outlet immediately. Contact your Integra/Onkyo authorized service center.

No power.

- Power cord is disconnected.
  → Connect power cord.
- External noise in the affecting the internal microcomputer.
  → Turn the power button off and then on again or remove the power cord from the outlet and then plug it in again.
- Internal fuse is blown.
  → Contact your Integra/Onkyo authorized Service Center.

Power turns on but no sound.

- "MUTING" is displayed.
  → Press the MUTING button on the remote controller to turn it off.
- Bad connections or wiring.
  → Check connections, speaker cables, etc.
- Amplifier protection circuitry has been activated.
  → Contact your Integra/Onkyo authorized Service Center.

The sound of the playback source is not heard.

- Input selector is not set properly.
  → Set to correct input source.
- Headphones are connected.
  → Lower volume and then disconnect headphones.

Pressing the ON button on the remote controller does not turn on the power to the main unit.

- You have not pressed RCVR MODE button.
  → Press the RCVR MODE button, then press the ON button.

SPEAKERS

No sound from the center speaker, or at very low volume.

- Speaker cable is not connected.
  → Check the connection between the amplifier and the speaker.
- Listening mode is set to Stereo or Direct.
  → Set the Listening mode to any mode other than Stereo or Direct. The output to the center speaker may differ depending on the listening mode.
- Center speaker level is set to minimum.
  → Set the Center speaker level to the appropriate volume (page 22).
- Center speaker is set to "NONE."
  → Set CENTER to "LARGE" or "SMALL" (page 21).

No sound or very low volume from subwoofer.

- Subwoofer is set to "NO."
  → Check the speaker setting (page 21).
- Subwoofer speakers output level setting is improper.
  → Check the output level of the Subwoofer using the test tone (page 22).

Low frequency humming is heard.

- Not properly grounded.
  → Check outer conductor of input plugs.
- Turntable motor is not properly grounded.
  → Check for proper ground connection.
- Audio connection cables on the rear panel are connected incorrectly.
  → Adjust the placement of the cable to reduce hum.

Howling is heard when the volume is turned up.

- Turntable and speakers are located too close together.
  → Move them farther apart.

Rough or scratchy sound is heard. High range is not clear.

- The needles of turntable is dirty or worn, or a problem exists with a connected component.
  → Refer to the instruction of the connected components and check for problem.
- Treble control is too high.
  → Turn treble down.

FM/AM TUNER

AM stations cannot be received.

- AM loop antenna is not connected.
  → Connect the included AM loop antenna to the AM antenna terminals.

Buzzing noise on AM stations (particularly noticeable at night or with weak stations).

- Noise from electrical apparatus such as fluorescent lamp.
  → Move the AM loop antenna to different position.
  → Set up an outdoor AM antenna.

Noise is heard at high-pitched sounds on AM stations.

- Noise from TV set.
  → Place the AM loop antenna as far as possible from the TV.
  → Move unit away from TV set.

Crackling noise on both AM and FM stations.

- Noise caused by fluorescent lamp being turned on and off.
  → Move antenna as far as possible from the fluorescent lamp.
- Noise from automobile ignition.
  → Install an FM outdoor antenna as far as possible from the road.
  → Change the position or direction of the outdoor antenna.

The indicators light for stereo reception, but sound is distorted and stereo separation is bad.

- Station is too strong.
  → Change to FM indoor antenna.
- Multiple reflection of the radio waves because of tall buildings or mountains.
  → Use antenna that has better directivity and select a point where distortion is least.

Indicators for stereo reception flicker and hiss is heard on FM stations.

- Station is too weak.
  → Install an outdoor FM antenna.
- Stereo FM broadcasts cover only about half the distance of an ordinary broadcast.
  → Change the position or direction of the outdoor antenna.

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Troubleshooting guide

No preset station is recalled.

- Power cord has been unplugged or the POWER switch has been turned off for a long time.
  → The memory contents are lost. Store all stations again.

VIDEO and AUDIO

Desired picture does not appear.

- Improper connection.
  → Check the connection again. Insert the plugs and connectors completely.

Picture and sound do not match.

- Improper connection.
  → Check connections.

No sound, or sound of the selected source is not heard.

- Audio Setup of Input Setup settings are incorrect.
  → Check settings.

No picture appears on the TV screen (or monitor).

- TV (or monitor) is not set to receive the output signals from the receiver.
  → Set the TV (or monitor) to the receiver input.
- Video cable is not connected securely.
  → Check connections.
- The video input and output connections are incorrect.
  → If your video component is connected to S VIDEO IN, then your television monitor must be connected to S VIDEO OUT. If your video component is connected to VIDEO IN, then your television monitor must be connected to VIDEO OUT. Be aware that the signal input to S VIDEO IN is not output from VIDEO OUT and the signal input to VIDEO IN is not output from S VIDEO OUT.

REMOTE CONTROLLER

Front panel controls function but remote controller controls do not.

- No batteries in remote controller.
  → Insert batteries.
- Batteries have worn out.
  → Replace batteries.
- Remote controller is not pointed at the remote sensor of the DTR-5.2.
  → Point the remote controller at the remote sensor of the DTR-5.2.
- Remote controller is too far from the DTR-5.2.
  → Operate the remote controller within 16 feet.
- Remote controller is functioning in a different mode
  → Press the RCVR MODE button.

OTHER

LATE NIGHT function cannot be used.

- Playback source is not Dolby Digital encoded.
  → Check that the DOLBY DIGITAL indicator lights up on the display.

Re-EQ function cannot be used.

- Re-EQ is only enabled for Analog/PCM sources and Dolby Digital surround.
  → See page 9.

Multichannel audio is not output.

- To listen to multichannel audio, "YES" must be selected in the Multichannel in the Audio Setup of the Input Setup. Also, it is necessary to select Multichannel with the Audio Selector button.
  → Check that the component is connected to the MULTI CHANNEL INPUT port and check the setup settings.

If one of the messages shown below appears

"NOT AVAILABLE WITH HEADPHONES USE"

The operation is not allowed because headphones are plugged into the DTR-5.2.

"NOT AVAILABLE WITH MULTICHANNEL USE"

The operation is not allowed because the selected input source is set for multichannel input.

"NOT AVAILABLE IN THIS SP CONFIG"

The operation is not allowed by the current speaker configuration.

"NOT AVAILABLE IN THIS LISTENING MODE"

This operation cannot be performed in this listening mode.

"NOT AVAILABLE WITH THIS SIGNAL"

This operation cannot be performed with this input signal.

Also refer to the respective instruction manuals of the compact disc player, DVD player, video cassette recorder, TV monitor, etc., that compose your entertainment system.
The DTR-5.2 contains an internal microcomputer that performs high-level operations. However, on extremely rare occasions, noise or interference from an external source or static electricity may cause faulty operation. If this occurs, unplug the power cord from the wall outlet, wait five or more seconds, and then plug it back in. This should correct the situation.

* To reset the surround mode and other settings to the factory default settings, hold down the Preset Memory button with the DTR-5.2 turned on and then press the Standby/On button. "CLEAR" appears in the front display and the DTR-5.2 enters the standby state.

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