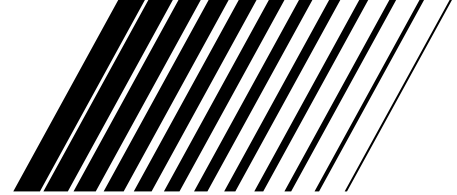


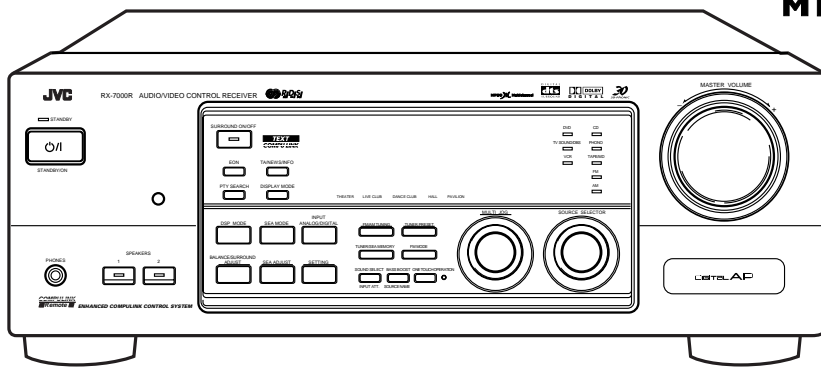
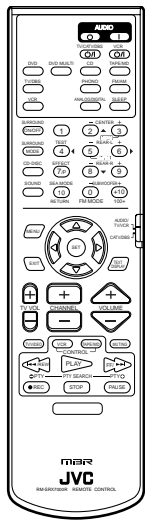
JVC



AUDIO/VIDEO CONTROL RECEIVER

AUDIO/VIDEO-RECEIVER MIT STEUEREINHEIT
AMPLI/TUNER DE COMMANDE AUDIO/VIDEO
GEINTEGREERDE AUDIO/VIDEO-VERSTERKER
RECEPTOR DE CONTROL DE AUDIO/VÍDEO
RICEVITORE DI CONTROLLO AUDIO/VIDEO

RX-7000RBK



DIGITAL AP

**TEXT
COMPU LINK**

**COMPU LINK
Remote**



MPEG  **Multichannel**

**DIGITAL
dts
SURROUND**

**DOLBY
DIGITAL**



INSTRUCTIONS

**BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI**

For Customer Use:

Enter below the Model No. and Serial No. which are located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. _____

Serial No. _____

LVT0396-005A
[E]

Warnings, Cautions and Others/Warnung, Achtung und sonstige Hinweise/ Mises en garde, précautions et indications diverses/Waarschuwingen, voorzorgen en andere mededelingen/Avisos, precauciones y otras notas/ Avvertenze e precauzioni da osservare

IMPORTANT for the U.K.

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer.

BE SURE to replace the fuse only with an identical approved type, as originally fitted.

If nonetheless the mains plug is cut off ensure to remove the fuse and dispose of the plug immediately, to avoid a possible shock hazard by inadvertent connection to the mains supply.

If this product is not supplied fitted with a mains plug then follow the instructions given below:

IMPORTANT.

DO NOT make any connection to the terminal which is marked with the letter E or by the safety earth symbol or coloured green or green-and-yellow.

The wires in the mains lead on this product are coloured in accordance with the following code:

Blue : Neutral
Brown : Live

As these colours may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black.

The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red.

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

Per l'Italia:

“Si dichiara che il questo prodotto di marca JVC è conforme alle prescrizioni del Decreto Ministeriale n.548 del 28/08/95 pubblicato sulla Gazzetta Ufficiale della Repubblica Italiana n.301 del 28/12/95.”

Caution — STANDBY/ON \odot /I switch!

Disconnect the mains plug to shut the power off completely. The STANDBY/ON \odot /I switch in any position does not disconnect the mains line. The power can be remote controlled.

Achtung — STANDBY/ON \odot /I-Schalter!

Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der Schalter STANDBY/ON \odot /I unterbricht in keiner Stellung die Stromversorgung vollkommen. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

Attention — Commutateur STANDBY/ON \odot /I!

Déconnecter la fiche de secteur pour couper complètement le courant. Le commutateur STANDBY/ON \odot /I ne coupe jamais complètement la ligne de secteur, quelle que soit sa position. Le courant peut être télécommandé.

Voorzichtig — STANDBY/ON \odot /I schakelaar!

Om de stroomtoevoer geheel uit te schakelen, trek u de stekker uit het stopcontact. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de STANDBY/ON \odot /I schakelaar. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

Precaución — Interruptor STANDBY/ON \odot /I!

Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajuste del interruptor STANDBY/ON \odot /I, la alimentación no es cortada completamente. La alimentación puede ser controlada remotamente.

Attenzione — L'interruttore STANDBY/ON \odot /I!

Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore STANDBY/ON \odot /I in nessuna posizione stacca la linea di alimentazione elettrica principale. È possibile il controllo remoto dell'alimentazione.

CAUTION

To reduce the risk of electrical shocks, fire, etc.:

1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ACHTUNG

Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw.:

1. Keine Schrauben lösen oder Abdeckungen entfernen und nicht das Gehäuse öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION

Afin d'éviter tout risque d'électrocution, d'incendie, etc.:

1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

VOORZICHTIG

Ter vermindering van gevaar voor brand, elektrische schokken, enz.:

1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel dit toestel niet bloot aan regen of vocht.

PRECAUCIÓN

Para reducir riesgos de choques eléctricos, incendio, etc.:

1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

ATTENZIONE

Per ridurre il rischio di scosse elettriche, incendi, ecc.:

1. Non togliere viti, coperchi o la scatola.
2. Non esporre l'apparecchio alla pioggia e all'umidità.

Caution: Proper Ventilation

To avoid risk of electric shock and fire and to protect from damage.

Locate the apparatus as follows:

- Front: No obstructions open spacing.
- Sides: No obstructions in 10 cm from the sides.
- Top: No obstructions in 10 cm from the top.
- Back: No obstructions in 15 cm from the back
- Bottom: No obstructions, place on the level surface.

In addition, maintain the best possible air circulation as illustrated.

Achtung: Angemessene Ventilation

Stellen Sie das Gerät zur Verhütung von elektrischem Schlag und Feuer und zum Schutz gegen Beschädigung wie folgt auf:

Vorderseite: Offener Platz ohne Hindernisse.

- Seiten: Keine Hindernisse innerhalb 10 cm von den Seiten.
 - Oberseite: Keine Hindernisse innerhalb 10 cm von der Oberseite.
 - Rückseite: Keine Hindernisse innerhalb 15 cm von der Rückseite.
 - Unterseite: Keine Hindernisse. Auf eine ebene Oberfläche stellen.
- Zusätzlich die bestmögliche Luftzirkulation wie gezeigt erhalten.

Attention: Ventilation Correcte

Pour éviter les chocs électriques, l'incendie et tout autre dégât.

Disposer l'appareil en tenant compte des impératifs suivants

- Avant: Rien ne doit gêner le dégagement
- Flancs: Laisser 10 cm de dégagement latéral
- Dessus: Laisser 10 cm de dégagement supérieur
- Arrière: Laisser 15 cm de dégagement arrière
- Dessous: Rien ne doit obstruer par dessous; poser l'appareil sur une surface plate.

Veiller également à ce que l'air circule le mieux possible comme illustré.

Voorzichtig: Zorg Voor Goede Ventilatie

Om gevaar voor brand of een elektrische schok te voorkomen, dient u bij opstelling van het apparaat op de volgende punten te letten:

- Voorkant: Voldoende ruimte vrij houden.
- Zijkanten: Minstens 10 cm aan weerszijden vrij houden.
- Bovenkant: Niets bovenop plaatsen; 10 cm speling geven.
- Achterkant: Minstens 15 cm ruimte achteraan vrij houden.
- Onderkant: Opstellen op een egaal horizontaal oppervlak.

Bovendien moet er rondom voldoende luchtdoorstroming zijn, zoals in de afbeelding aangegeven.

Precaución: Ventilación Adecuada

Para evitar el riesgo de choque eléctrico e incendio y para proteger el aparato contra daños.

Ubique el aparato de la siguiente manera:

- Frente: Espacio abierto sin obstrucciones
- Lados: 10 cm sin obstrucciones a los lados
- Parte superior: 10 cm sin obstrucciones en la parte superior
- Parte trasera: 15 cm sin obstrucciones en la parte trasera
- Fondo: Sin obstrucciones, colóquelo sobre una superficie nivelada

Además, mantenga la mejor circulación de aire posible como se ilustra.

Attenzione: Problemi di Ventilazione

Per evitare il rischio di folgorazioni ed incendi e proteggere l'unità da danni, installarla nel modo seguente.

- Davanti: Nessun ostacolo, spazio libero
- Lati: Nessun ostacolo per almeno 10 cm
- Sopra: Nessun ostacolo per almeno 10 cm
- Retro: Nessun ostacolo per almeno 15 cm
- Fondo: Libero ed in piano

Inoltre, mantenere il più possibile la circolazione dell'aria.

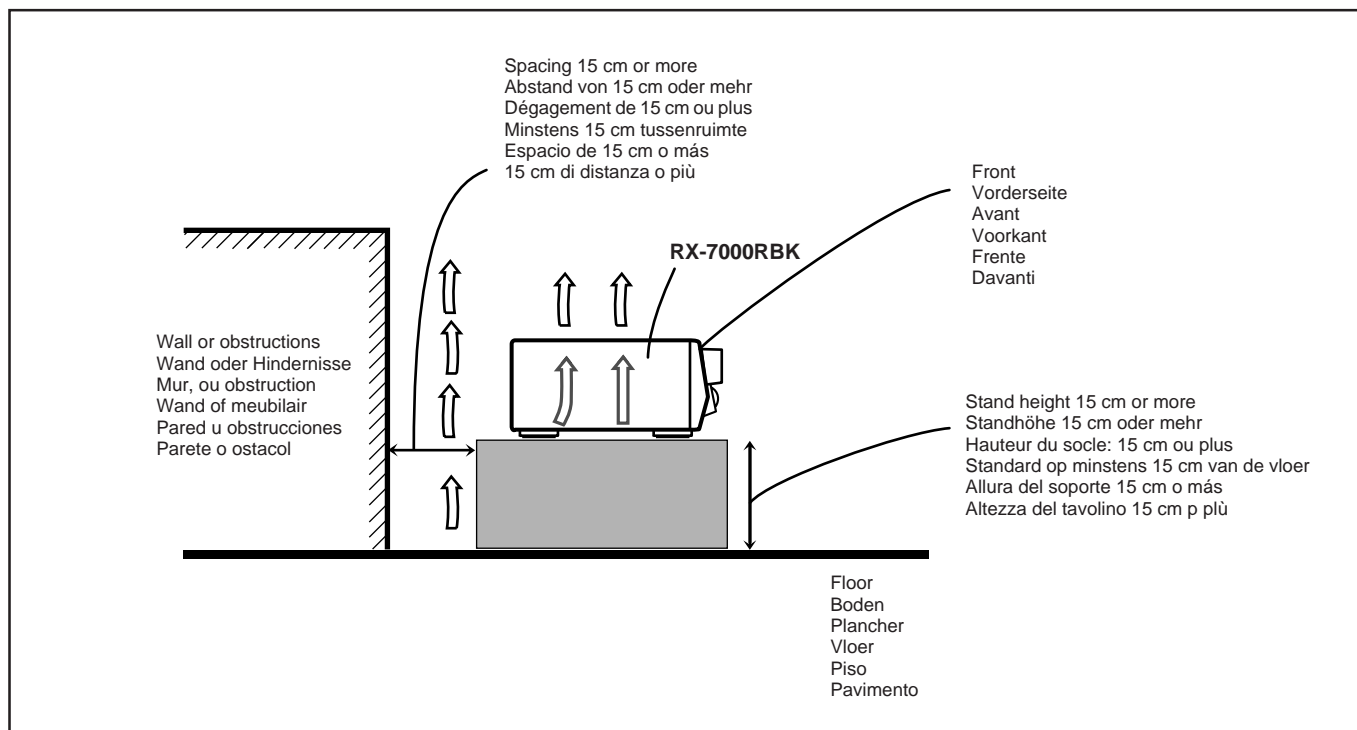
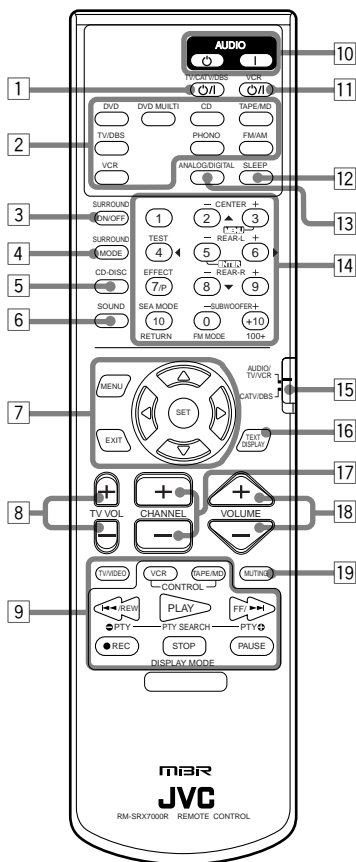
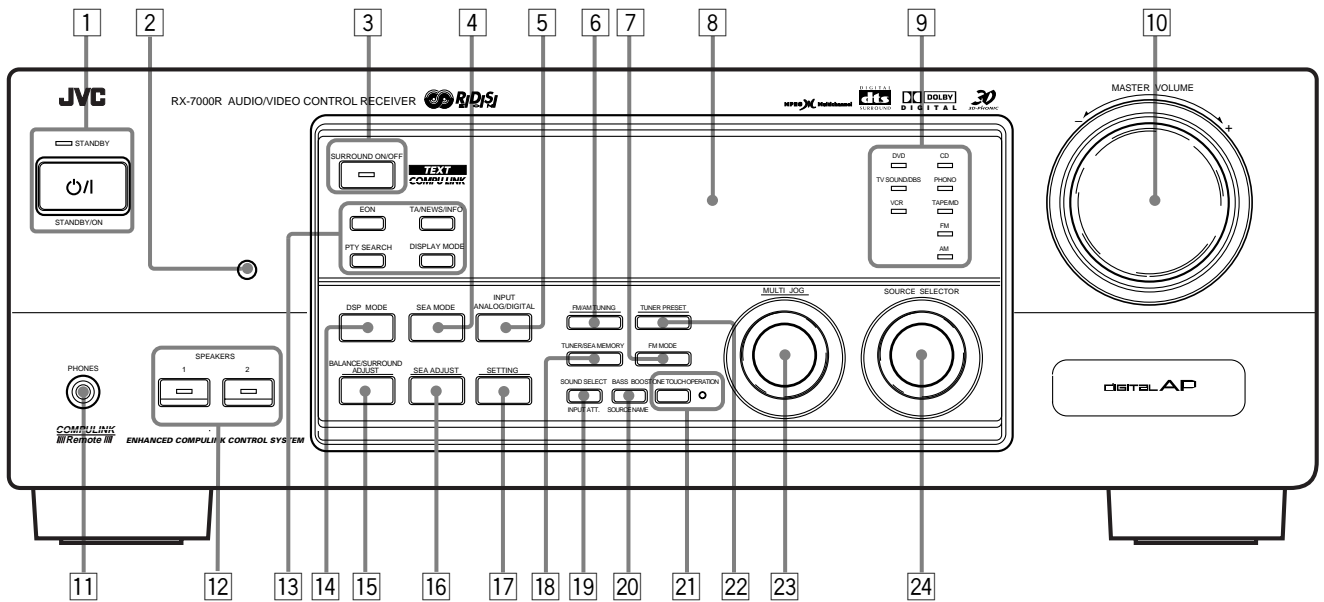


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Parts Identification

Become familiar with the buttons and controls on the receiver before use. Refer to the pages in parentheses for details.



Remote Control

- 1 TV/CATV/DBS \odot/I button (47 – 49)
- 2 Source selecting buttons (10)
DVD, DVD MULTI, CD, TAPE/MD, TV/DBS, PHONO, FM/AM, VCR
- 3 SURROUND ON/OFF button (29, 31)
- 4 SURROUND MODE button (28, 29)
- 5 CD-DISC button (46)
- 6 SOUND button (24, 28, 33)
- 7 On-screen operation buttons (34, 41)
MENU, SET, EXIT, Δ , ∇ , \triangleleft , \triangleright
- 8 TV VOL +/- buttons (47, 48)
- 9
 - RDS operation buttons (21 – 23)
PTY SEARCH, PTY $-/+$, DISPLAY MODE
 - Operating buttons for audio/video components (45 – 49)
- 10 AUDIO buttons (10)
 \odot , I
- 11 VCR \odot/I button (47, 49)
- 12 SLEEP button (18)
- 13 ANALOG/DIGITAL button (17)
- 14
 - 10 keys for selecting preset channel (20)
 - 10 keys for adjusting sound (24, 28 – 31, 33)
 - 10 keys for operating audio/video components (45 – 49)
- 15 Remote control mode selector (10, 45, 48)
- 16 TEXT DISPLAY button (41)
- 17 CHANNEL +/- buttons (47 – 49)
- 18 VOLUME +/- buttons (11)
- 19 MUTING button (12)

Front Panel

- 1 STANDBY/ON \odot/I button and STANDBY lamp (10)
- 2 Remote sensor (9)
- 3 SURROUND ON/OFF button and lamp (30, 31)
- 4 SEA MODE button (24)
- 5 INPUT ANALOG/DIGITAL button (16)
- 6 FM/AM TUNING button (19)*
- 7 FM MODE button (20)
- 8 Display (10)
- 9 Source lamps (10)
- 10 MASTER VOLUME control (11)
- 11 PHONES jack (12)
- 12 SPEAKERS 1/2 buttons and lamps (11)
- 13 RDS operation buttons (21 – 23)
EON, TA/NEWS/INFO, PTY SEARCH, DISPLAY MODE
- 14 DSP MODE button (28)
- 15 BALANCE/SURROUND ADJUST button (12, 13, 28)*
- 16 SEA ADJUST button (24)*
- 17 SETTING button (13 – 17)*
- 18 TUNER/SEA MEMORY button (19, 20, 24)
- 19 SOUND SELECT/INPUT ATT. button (11, 12)
- 20 BASS BOOST/SOURCE NAME button (12, 13)
- 21 ONE TOUCH OPERATION button and lamp (18)
- 22 TUNER PRESET button (20)*
- 23 MULTI JOG control
What this control actually does depends on which function you are trying to adjust. Before using this control, select the function by pressing one of the buttons marked with *.
- 24 SOURCE SELECTOR control (10)

Getting Started

This section explains how to connect audio/video components and speakers to the receiver, and how to connect the power supply.

Before Installation

General

- Be sure your hands are dry.
- Turn the power off to all components.
- Read the manuals supplied with the components you are going to connect.

Locations

- Install the receiver in a location that is level and protected from moisture.
- The temperature around the receiver must be between -5°C and 35°C (23°F and 95°F).
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.

Handling the receiver

- Do not insert any metal object into the receiver.
- Do not disassemble the receiver or remove screws, covers, or cabinet.
- Do not expose the receiver to rain or moisture.

Checking the Supplied Accessories

Check to be sure you have all of the following items, which are supplied with the receiver.

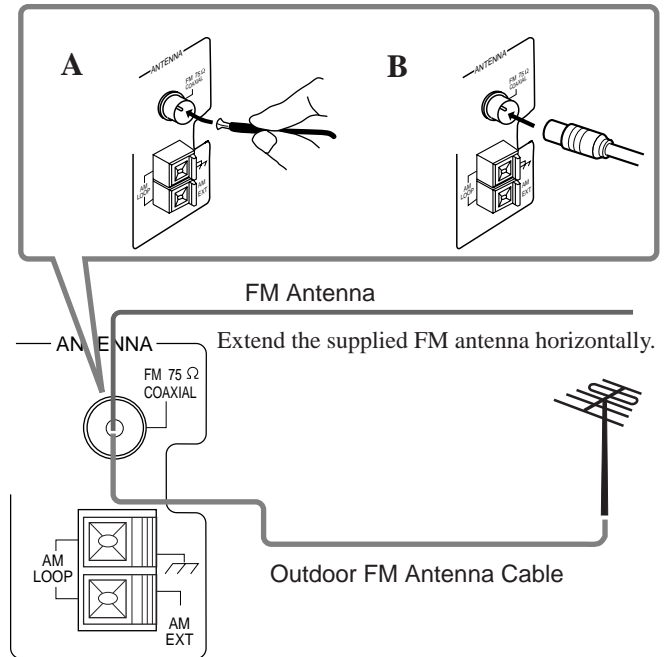
The number in the parentheses indicates quantity of the pieces supplied.

- Remote Control (1)
- Batteries (2)
- AM (MW/LW) Loop Antenna (1)
- FM Antenna (1)

If anything is missing, contact your dealer immediately.

Connecting the FM and AM (MW/LW) Antennas

FM Antenna Connections



A. Using the Supplied FM Antenna

The FM antenna provided can be connected to the FM 75 Ω COAXIAL terminal as temporary measure.

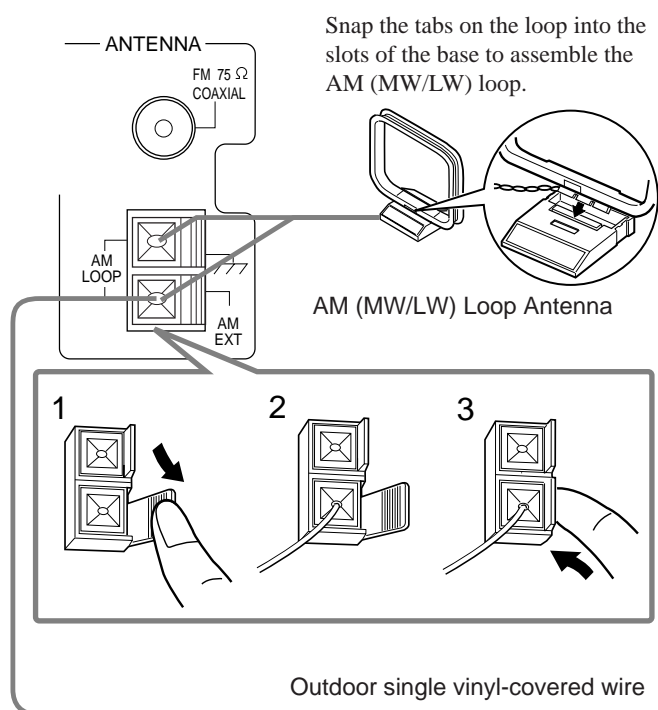
B. Using the Standard Type Connector (Not Supplied)

A standard type connector (IEC or DIN45325) should be connected to the FM 75 Ω COAXIAL terminal.

Note:

If reception is poor, connect the outdoor antenna. Before attaching a 75 Ω coaxial cable (the kind with a round wire going to an outdoor antenna), disconnect the supplied FM antenna.

AM (MW/LW) Antenna Connections



Turn the loop until you have the best reception.

Notes:

- Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. This could cause poor reception.
- If reception is poor, connect an outdoor single vinyl-covered wire to the AM EXT terminal. (Keep the AM (MW/LW) loop antenna connected.)

Connecting the Speakers

You can connect the following speakers:

- Two pairs of front speakers to produce normal stereo sound.
- One pair of rear speakers to enjoy the surround effect.
- One center speaker to produce more effective surround effect (to emphasize human voices).
- One subwoofer to enhance the bass.

IMPORTANT:

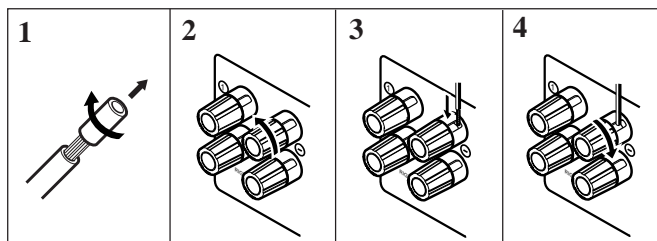
After connecting the speakers listed above, set the speaker setting information properly to obtain the best possible DSP effect. For details, see page 14.

For each speaker (except for a subwoofer), connect the (-) and (+) terminals on the rear panel to the (-) and (+) terminals marked on the speakers. For connecting a subwoofer, see page 5.

CAUTION:

Use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals.

Basic connecting procedure



1 Cut, twist and remove the insulation at the end of each speaker signal cable (not supplied).

2 Turn the knob counterclockwise.

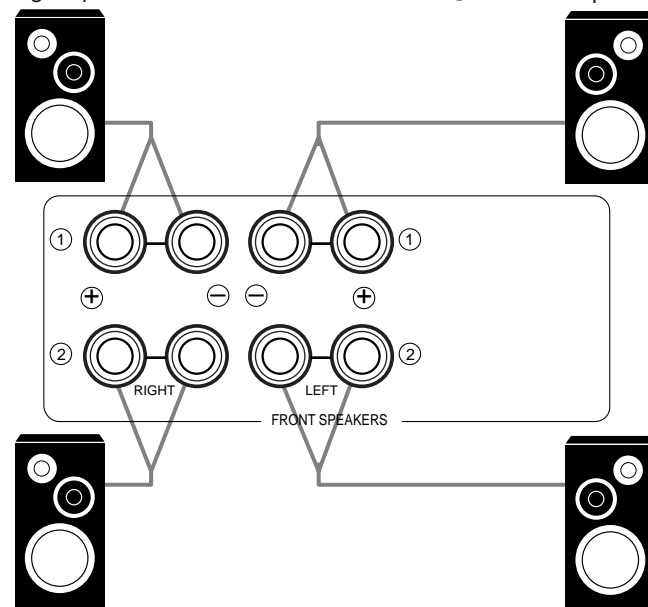
3 Insert the speaker signal cable.

4 Turn the knob clockwise.

Connecting the front speakers

You can connect two pairs of front speakers (one pair to the FRONT SPEAKERS ① terminals, and another pair to the FRONT SPEAKERS ② terminals).

Right speaker — FRONT SPEAKERS ① — Left speaker

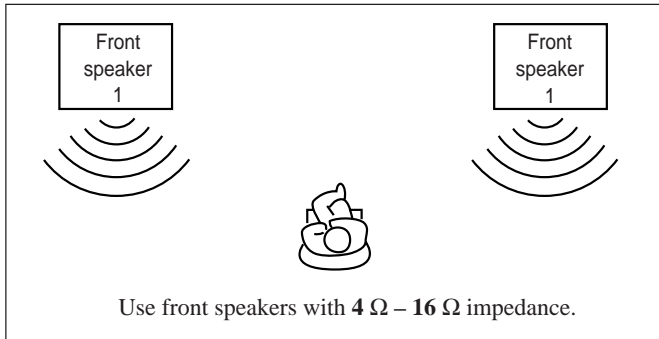


Right speaker — FRONT SPEAKERS ② — Left speaker

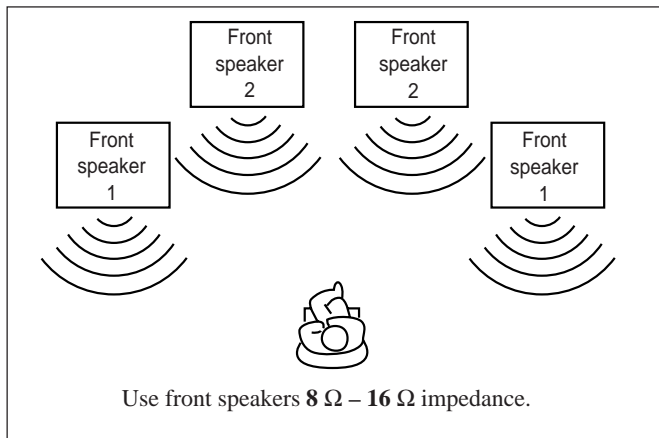
About the speaker impedance

The required speaker impedance of the front speakers does differ depending on whether both the FRONT SPEAKERS ① and FRONT SPEAKERS ② terminals are used or only one of them is used.

CASE 1 When you connect only one set of front speakers

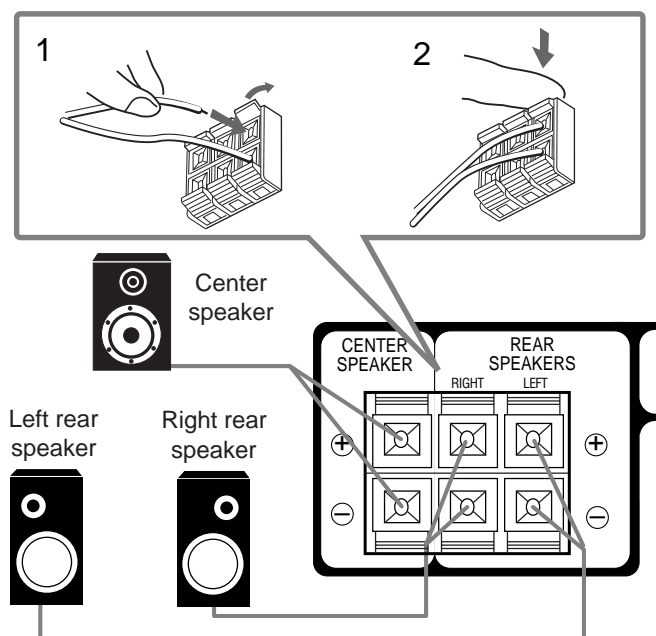


CASE 2 When you connect two sets of front speakers



Connecting the rear and center speakers

Connect rear speakers to the REAR SPEAKERS terminals and a center speaker to the CENTER SPEAKER terminals.



Connecting the subwoofer speaker

You can enhance the bass by connecting a subwoofer. Connect the input jack of a powered subwoofer to the SUBWOOFER OUT jack on the rear panel, using a cable with RCA pin plugs (not supplied).



Powered subwoofer

Connecting Audio/Video Components

You can connect the following audio/video components to this receiver. Refer also to the manuals supplied with your components.

Audio Components	Video Components
• Turntable	• DVD player*
• CD player*	• TV*
• Cassette deck or MD recorder*	• DBS tuner*
	• VCR

* You can connect these components using the methods described in "Analog connections" (below) or in "Digital connections" (see page 8).

Analog connections

Audio component connections

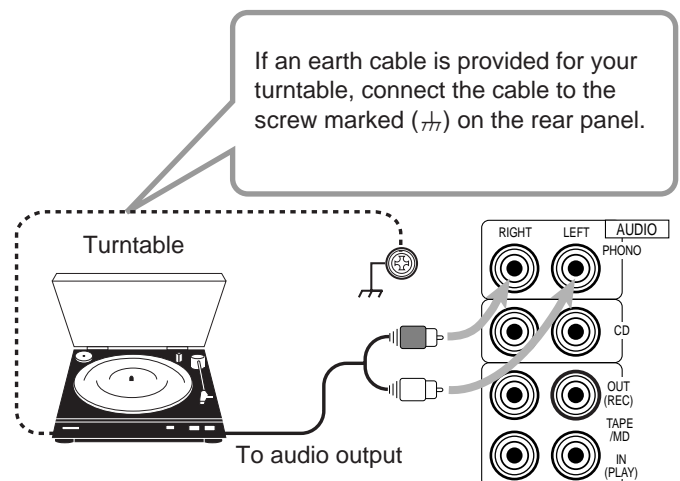
Use the cables with RCA pin plugs (not supplied).

Connect the white plug to the audio left jack, and the red plug to the audio right jack.

CAUTION:

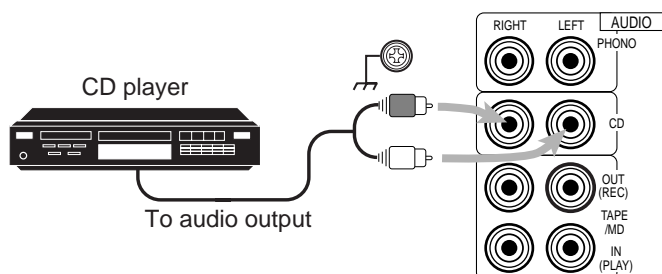
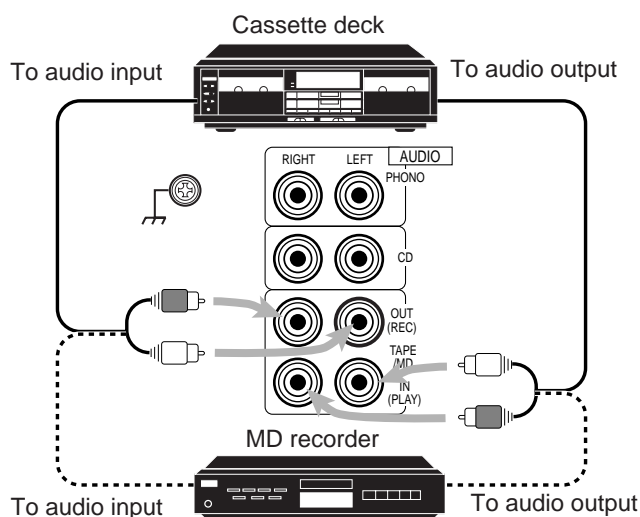
If you connect a sound-enhancing device such as a graphic equalizer between the source components and this receiver, the sound output through this receiver may be distorted.

Turntable



Note:

Any turntables incorporating a small-output cartridge such as an MC (moving-coil type) must be connected to this receiver through a commercial head amplifier or step-up transformer. Direct connection may result in insufficient volume.

CD player**Cassette deck or MD recorder****Note:**

You can connect either a cassette deck or an MD recorder to the TAPE/MD jacks. When connecting an MD recorder to the TAPE/MD jacks, change the source name, which will be shown on the display when selected as the source, to "MD." See page 13 for details.

If your audio components have a COMPU LINK-3 or TEXT COMPU LINK jack

- See also page 39 for detailed information about the connection and the COMPU LINK-3 remote control system.
- See also page 40 for detailed information about the connection and the TEXT COMPU LINK remote control system.

Video component connections

Use the cables with RCA pin plugs (not supplied).

Connect the white plug to the audio left jack, the red plug to the audio right jack, and the yellow plug to the video jack.

If your video components have S-video (Y/C-separation) terminals, connect them using S-video cables (not supplied). Connecting these video components through the S-video input/output terminals will give you better picture playback (or recording) quality.

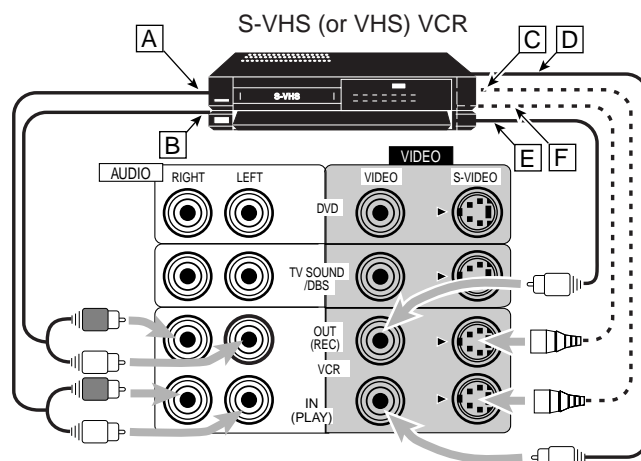
IMPORTANT:

This receiver is equipped with both the composite video and S-video input/output terminals for connecting video components.

You do not have to connect both the composite video and S-video terminals.

However, **remember that the video signals from the composite video input terminals are output only through the composite video output terminals, while the ones from the S-video input terminals are output only through the S-video output terminals.**

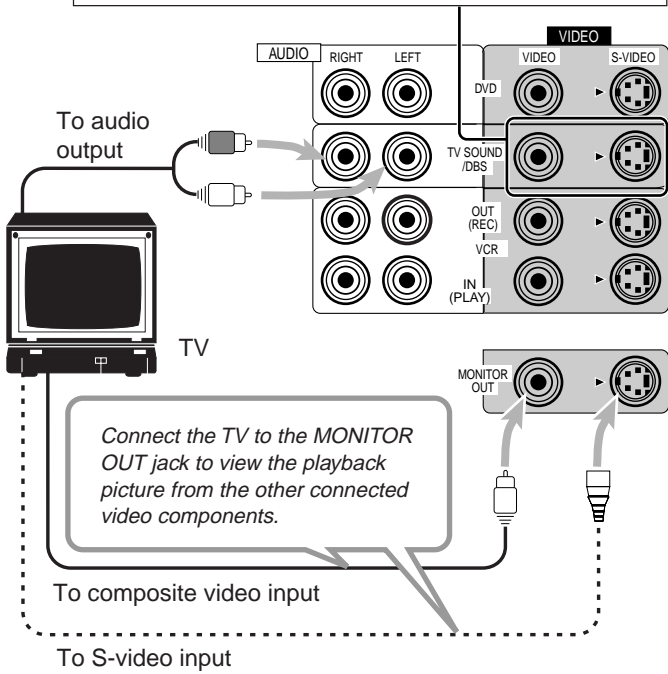
Therefore, if a recording video component and a playing video component are connected to the receiver through the different video terminals, you cannot record the picture from the playing component on the recording component. In addition, if the TV and a playing video component are connected to the receiver through the different video terminals, you cannot view the playback picture from the playing component on the TV.

VCR

- A To left/right channel audio output
- B To left/right channel audio input
- C To S-video output
- D To composite video output
- E To composite video input
- F To S-video input

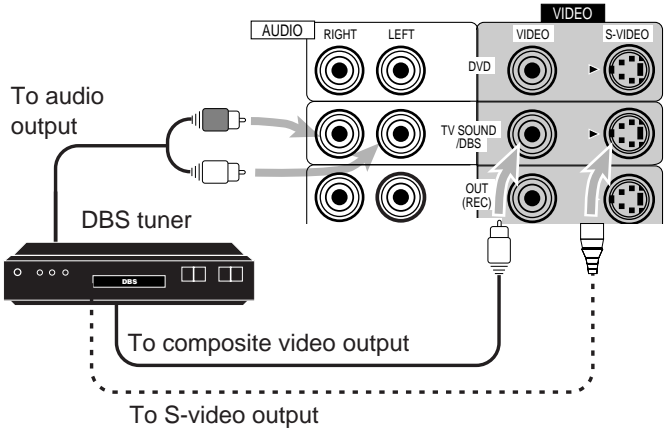
TV and/or DBS tuner

When connecting the TV, DO NOT connect the TV's video outputs to these video input terminals.



Note:

Use a TV of the PAL- or multi-color system.

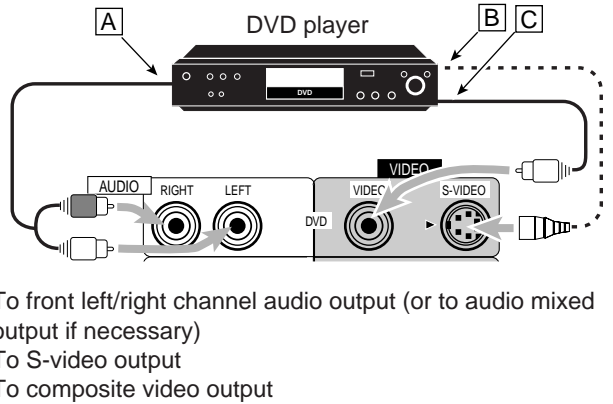


Note:

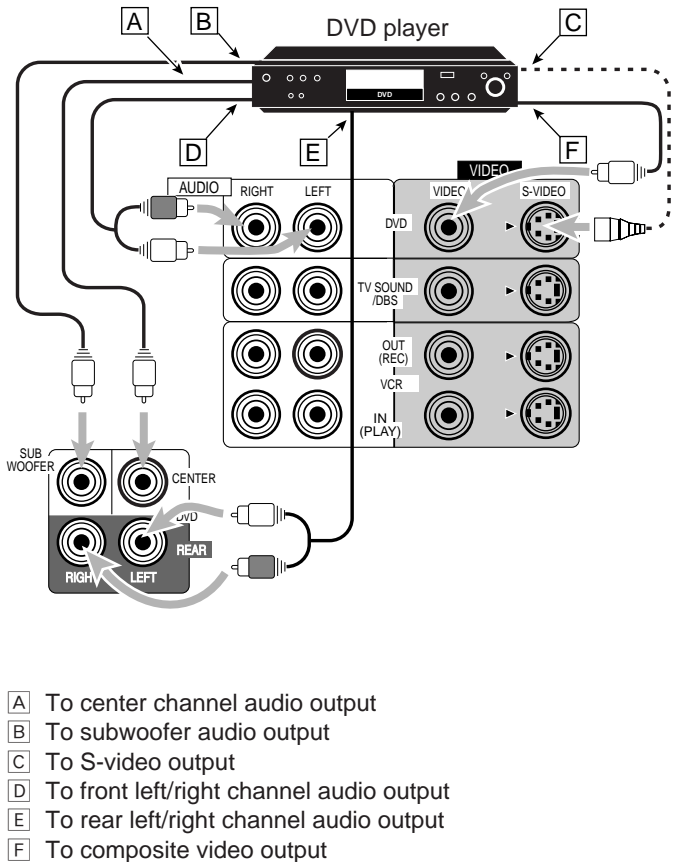
When connecting the DBS tuner to the TV SOUND/DBS jacks, change the source name, which will be shown on the display when selected as the source, to "DBS." See page 13 for details.

DVD player

- When you connect the DVD player with stereo output jacks:



- When you connect the DVD player with its analog discrete output (5.1 CH reproduction) jacks:



Digital connections

This receiver is equipped with three DIGITAL IN terminals — one digital coaxial terminal and two digital optical terminals, and one DIGITAL OUT terminal.

You can connect any digital equipment such as —

- DBS tuner,
- Digital TV broadcast tuner,
- DVD player,
- CD player,
- and MD recorder.

IMPORTANT:

- When connecting the DVD player, digital TV broadcast tuner or DBS tuner using the digital terminals, you also need to connect it to the video jack (either composite video terminal or S-video terminal) on the rear. Without connecting it to the video jack, you can view no playback picture.
- After connecting the components using the DIGITAL IN terminals, set the following correctly if necessary.
 - Set the digital input (DIGITAL IN) terminal setting correctly. For details, see “Digital Input (DIGITAL IN) Terminal Setting” on page 16.
 - Select the digital input mode correctly. For details, see “Selecting the Analog or Digital Input Mode” on page 16.

Digital input terminals

DBS tuner



DVD player



CD player



MD recorder



Digital coaxial cable (not supplied)
between digital coaxial terminals



Digital optical cable (not supplied)
between digital optical terminals



When the component has a digital coaxial output terminal, connect it to the DIGITAL 1 (DVD) terminal, using the digital coaxial cable (not supplied).

When the component has a digital optical output terminal, connect it to the DIGITAL 2 (CD), or DIGITAL 3 (TV) terminal, using the digital optical cable (not supplied).

Before connecting a digital optical cable, unplug the protective plug.



Notes:

- When shipped from the factory, the DIGITAL IN terminals have been set for use with the following components.
 - DIGITAL 1 (coaxial): For DVD player
 - DIGITAL 2 (optical): For CD player
 - DIGITAL 3 (optical): For digital TV broadcast tuner
- When you want to operate the CD player or MD recorder using the COMPU LINK remote control system, connect the target component also as described in “Analog connections” (see page 6).
- When you want to operate the DVD player using the AV COMPU LINK remote control system, connect the DVD player also as described in “Analog connections” (see page 7).

Digital output terminal

MD recorder, etc.



Digital optical cable (not supplied)
between digital optical terminals



When the digital recording equipment such as an MD recorder has a digital optical input terminal, connecting it to the DIGITAL OUT terminal enables you to perform digital-to-digital recording.



Connecting the Power Cord

Before plugging the receiver into an AC outlet, make sure that all connections have been made.

Plug the power cord into an AC outlet.

Keep the power cord away from the connecting cables and the antenna. The power cord may cause noise or screen interference. We recommend that you use a coaxial cable to connect the antenna, since it is well-shielded against interference.

Note:

The preset settings such as preset channels and sound adjustment may be erased in a few days in the following cases:

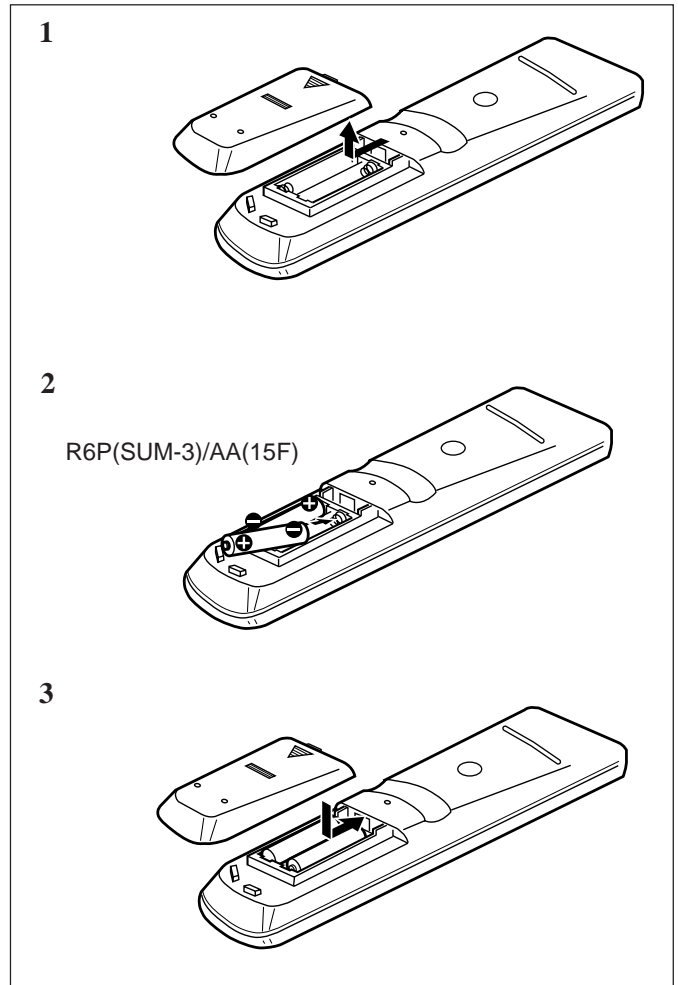
- When you unplug the power cord.
- When a power failure occurs.

CAUTIONS:

- Do not touch the power cord with wet hands.
- Do not pull on the power cord to unplug the cord. When unplugging the cord, always grasp the plug so as not to damage the cord.

Putting Batteries in the Remote Control

Before using the remote control, put two supplied batteries first. When using the remote control, aim the remote control directly at the remote sensor on the receiver.



- 1. On the back of the remote control, remove the battery cover.**
- 2. Insert batteries. Make sure to match the polarity: (+) to (+).**
- 3. Replace the cover.**

If the range or effectiveness of the remote control decreases, replace the batteries. Use two R6P(SUM-3)/AA(15F) type dry-cell batteries.

CAUTION:

Follow these precautions to avoid leaking or cracking cells:

- Place batteries in the remote control so they match the polarity: (+) to (+).
- Use the correct type of batteries. Batteries that look similar may differ in voltage.
- Always replace both batteries at the same time.
- Do not expose batteries to heat or flame.

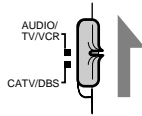
Basic Operations

The following operations are commonly used when you play any sound source.

IMPORTANT:

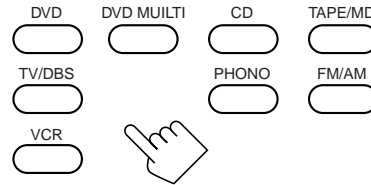
When using the remote control, check to see if its remote control mode selector is set to the correct position:

To operate this receiver, set it to "AUDIO/TV/VCR."



From the remote control:

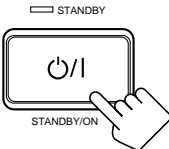
Press one of the source selecting buttons.



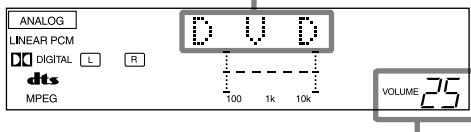
Turning the Power On and Off (Standby)

On the front panel:

To turn on the power, press STANDBY/ON . The STANDBY lamp goes off. The name of the current source (or station frequency) appears on the display.



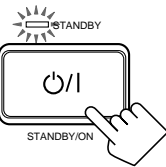
Current source name appears



Current volume level is shown here

To turn off the power (into standby mode), press STANDBY/ON again.

The STANDBY lamp lights up. A small amount of power is consumed in standby mode. To turn the power off completely, unplug the AC power cord.

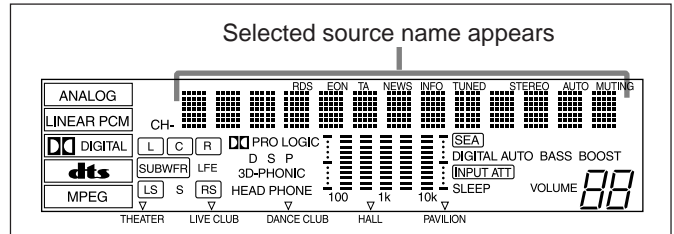


From the remote control:

To turn on the power, press AUDIO . The STANDBY lamp goes off. The name of the current source (or station frequency) appears on the display.



To turn off the power (into standby mode), press AUDIO . The STANDBY lamp lights up.



- DVD Select the DVD player.
- DVD MULTI Select the DVD player for viewing the digital video disc using the analog discrete output mode (5.1CH reproduction) on the DVD player. To enjoy the DVD MULTI playback, see page 33.
- CD* Select the CD player.
- TAPE/MD* Select the cassette deck (or the MD recorder).
- TV/DBS Select TV sounds (or the DBS tuner).
- PHONO* Select the turntable.
- FM/AM* Select an FM or AM (MW/LW) broadcast.
 - Each time you press the button, the band alternates between FM and AM (MW/LW).
- VCR Select the video component connected to the VCR jacks.

Notes:

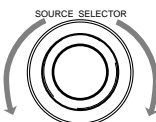
- When connecting an MD recorder (to the TAPE/MD jacks), and a DBS tuner (to the TV SOUND/DBS jacks), change the source name shown on the display. For details, see page 13.
- When you press one of the source selecting buttons on the remote control marked above with an asterisk (*), the receiver automatically turns on.

Selecting the Source to Play

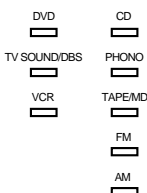
On the front panel:

Turn SOURCE SELECTOR until the source name you want appears on the display.

- As you turn the selector, the source changes as follows:



CD ⇄ PHONO ⇄ TAPE (or MD) ⇄ FM ⇄ AM ⇄ DVD ⇄ DVD MULTI ⇄ TV SOUND (or DBS) ⇄ VCR ⇄ (back to the beginning)

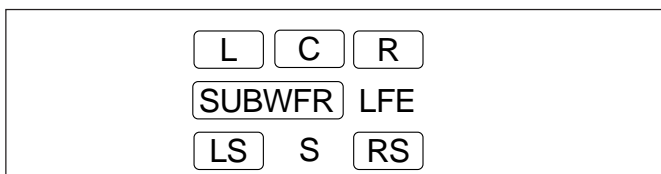


The selected source lamp also lights up.

- The DVD lamp lights up both for "DVD" and "DVD MULTI."

Signal and speaker indicators on the display

- The signal indicators light up to indicate the incoming channel signals.
 - Only the indicators for the incoming signals light up.
- The frame of the signal indicator (except for "LFE" and "S") lights up if the corresponding speaker is set to "LARGE" or "SMALL" (for subwoofer, "YES").
 - The frames of "L" and "R" indicators always light up.



- L: • **When digital input is selected:** Lights up when the left channel signal comes in.
 • **When analog input is selected:** Always lights up.
- R: • **When digital input is selected:** Lights up when the right channel signal comes in.
 • **When analog input is selected:** Always lights up.
- C: Lights up when the center channel signal comes in.
- LS: Lights up when the left rear channel signal comes in.
- RS: Lights up when the right rear channel signal comes in.
- S: Lights up when the monaural rear channel signal comes in.
- LFE: Lights up when the LFE channel signal comes in.

Notes:

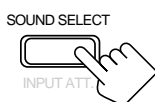
- When "SUBWOOFER" is set to "YES," **SUBWFR** lights up.
- When you select "DVD MULTI," all the signal indicators except "S" light up.

Selecting different sources for picture and sound

You can watch picture from a video component while listening to sound from another component.

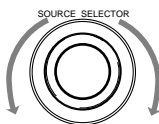
On the front panel:

- Press **SOUND SELECT (INPUT ATT.)** briefly while viewing the picture from a video component such as the VCR or DVD player, etc.



"SOUND SELECT" appears on the display.

- Turn **SOURCE SELECTOR** to select the sound (except the TV sound), while the indication of the above step is still on the display.



From the remote control:

Press one of the audio source selecting buttons (CD, TAPE/MD, PHONO, FM/AM, TV/DBS*), while viewing the picture from a video component such as the VCR or DVD player, etc.

Notes:

- Once you have selected a video source, pictures of the selected source are sent to the TV until you select another video source.
- * The TV/DBS button only works for selecting "DBS" as the source but not for selecting "TV SOUND." When you use the DBS tuner, change the source name correctly (see page 13).

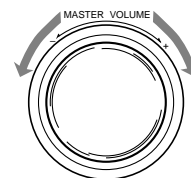
Adjusting the Volume

On the front panel:

To increase the volume, turn MASTER VOLUME clockwise.

To decrease the volume, turn it counterclockwise.

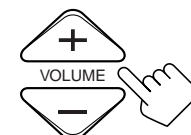
- When you turn MASTER VOLUME rapidly, the volume level also changes rapidly.
- When you turn MASTER VOLUME slowly, the volume level also changes slowly.



From the remote control:

To increase the volume, press VOLUME +.

To decrease the volume, press VOLUME -.



CAUTION:

Always set the volume to the minimum before starting any source. If the volume is set at its high level, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

Note:

The volume level can be adjusted within the range of "0" (minimum) to "90" (maximum).

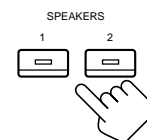
Selecting the Front Speakers

On the front panel ONLY:

When you have connected two pairs of the front speakers, you can select which to use.

Press **SPEAKERS 1** or **SPEAKERS 2** to select the speaker to use.

- Each time you press the button, the lamp on the respective button turns on and off. When the lamp on either button lights up, the respective speakers are activated.



Note:

If you use any of the DSP modes other than the 3D-PHONIC modes with both front speakers activated, the speakers connected to the FRONT SPEAKERS ② terminals are deactivated.

Listening only with headphones

You can listen with the headphones without deactivating both pairs of speakers; however, if you want to use the HEADPHONE mode (see below), you must turn off both pairs of speakers.

1. Connect a pair of headphones to the PHONES jack on the front panel.
2. Press SPEAKERS 1 and/or 2 so that no lamps on the buttons are turned on.
This cancels the surround mode or DSP mode currently selected, and activates the HEADPHONE mode (see below).
 - The HEAD PHONE indicator lights up on the display.

HEADPHONE mode:

This mode can reproduce the LFE channel signals, mixing them with the front channel signals. So you will not miss the subwoofer sounds even if you listen to a source using the headphones.

Notes:

- While in the HEADPHONE mode, you cannot use any other DSP modes (see page 25.)
- Activating the speaker cancels the HEADPHONE mode and turns on the DSP mode previously selected.

CAUTION:

Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.

Muting the Sound

From the remote control ONLY:

Press **MUTING** to mute the sound through all speakers and headphones connected.

“MUTING” appears on the display and the volume turns off (the volume level indicator goes off).



To restore the sound, press **MUTING** again so that “OFF” appears on the display.

- Turning **MASTER VOLUME** on the front panel or pressing **VOLUME +/-** on the remote control also restores the sound.

Reinforcing the Bass

You can boost the bass level.

On the front panel ONLY:

Press **BASS BOOST (SOURCE NAME)** briefly to select the bass boost function.

- Each time you press the button, the bass boost function turns on (“BASSBOOST ON”) and off (“BASSBOOST OFF”).
 - Select “BASSBOOST ON” to activate the bass boost function.
The BASS BOOST indicator lights up on the display.
 - Select “BASSBOOST OFF” to cancel it. The indicator goes off.



Note:

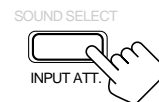
This function affects the front speaker sounds only.

Attenuating the Input Signal

When the input level of the playing source is too high, the sounds will be distorted. If this happens, you need to attenuate the input signal level to prevent the sound distortion.

On the front panel ONLY:

Press and hold **INPUT ATT. (SOUND SELECT)** so that the **ATT** indicator lights up on the display.



- Each time you press and hold the button, the Input Attenuator mode turns on (“INPUT ATT ON”) or off (“INPUT NORMAL”).

Notes:

- This function is available only for the sources connected using the analog terminals.
- This function takes effect when the DSP mode is in use.
- When selecting “DVD MULTI” as the source, this effect does not work.

Adjusting the Subwoofer Output Level

You can adjust the subwoofer output level if you have selected “YES” for the “SUBWOOFER” (see page 13). Once it has been adjusted, the receiver memorizes the adjustment.

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- When the front speakers are all deactivated, the subwoofer level cannot be adjusted.

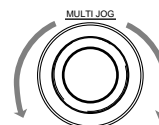
On the front panel:

1. Press **(BALANCE/) SURROUND ADJUST** repeatedly until “SUBWFR LEVEL” appears on the display.



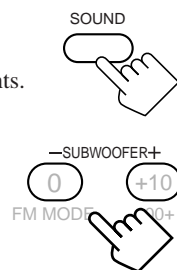
The display changes to show the current setting.

2. Turn **MULTI JOG** to adjust the subwoofer output level (–10 dB to +10 dB).



From the remote control:

1. Press **SOUND**.
The 10 keys are activated for sound adjustments.
2. Press **SUBWOOFER +/-** to adjust the subwoofer output level (–10 dB to +10 dB).



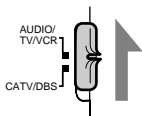
Basic Settings

Some of the following settings are required after connecting and positioning your speakers in your listening room, while others will make operations easier.

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position:

To operate this receiver, set it to "AUDIO/TV/VCR"



Recording a Source

For analog-to-analog recording

You can record any analog source through the receiver to —

- the cassette deck (or MD recorder) connected to the TAPE/MD jacks,
 - and the VCR connected to the VCR jacks
- at the same time.

For digital-to-digital recording

You can record the currently selected digital input through the receiver to a digital recording device connected to the DIGITAL OUT terminal.

Notes:

- Analog-to-digital and digital-to-analog recordings are not possible.
- The output volume level, bass boost (see page 12), SEA modes (see page 24), and DSP modes (see page 25) cannot affect the recording.
- The test tone signal (see pages 29 and 30) does not come out through the DIGITAL OUT terminal.

Adjusting the Front Speaker Output Balance

If the sounds you hear from the front right and left speakers are unequal, you can adjust the speaker output balance.

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

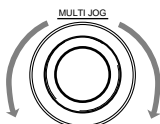
1. Press **BALANCE (/SURROUND) ADJUST** repeatedly until "L/R BALANCE" appears on the display.



The display changes to show the current setting.

2. Turn **MULTI JOG** to adjust the balance.

- Turning it clockwise decreases the left channel output.
- Turning it counterclockwise decreases the right channel output.



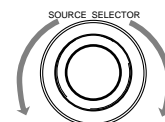
Changing the Source Name

When you have connected an MD recorder to the TAPE/MD jacks or the DBS tuner to the TV SOUND/DBS jacks on the rear panel, change the source name which will be shown on the display when you select the MD recorder or DBS tuner as the source.

On the front panel ONLY:

1. When changing the source name from "TAPE" to "MD":

- Turn **SOURCE SELECTOR** until "TAPE" appears.



When changing the source name from "TV SOUND" to "DBS":

- Turn **SOURCE SELECTOR** until "TV SOUND" appears.

2. Press and hold **SOURCE NAME (BASS BOOST)** until "ASSGN. MD" or "ASSGN. DBS" appears on the display.



To change the source name to "TAPE" or "TV SOUND," repeat the same procedure above — in step 1, select "MD" or "DBS" then press and hold SOURCE NAME (BASS BOOST).

Note:

Without changing the source name, you can still use the connected components. However, there may be some inconvenience.

- "TAPE" or "TV SOUND" will appear on the display when you select the MD recorder or DBS tuner.
- You cannot use the digital input (see page 16) for the MD recorder.
- You cannot use the COMPU LINK remote control system (see page 39) to operate the MD recorder.

Setting the Subwoofer Information

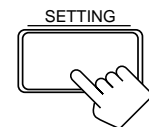
Register whether or not you have connected a subwoofer.

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

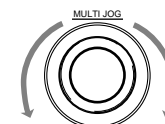
On the front panel ONLY:

1. Press **SETTING** repeatedly until "SUBWOOFER" appears on the display.



The display changes to show the current setting.

2. Turn **MULTI JOG** to register whether you have connected a subwoofer or not.



- As you turn it, the subwoofer setting alternates between "YES" and "NO."

YES: Select this when a subwoofer is used. **[SUBWFR]** lights up on the display (see page 11).

NO: Select this when no subwoofer is used.

Setting the Speakers for the DSP Modes

To obtain the best possible surround sound of the DSP modes, you have to register the information about the speakers arrangement after all connections are completed.

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

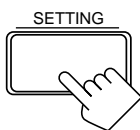
Front, Center, and Rear Speaker Setting

Register the sizes of all the connected speakers.

- When you change your speakers, you need to register the information about the speakers again.

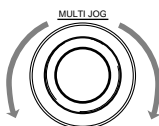
On the front panel ONLY:

1. Press **SETTING** repeatedly until “**FRONT SPK**” (Front Speaker), “**CENTER SPK**” (Center Speaker) or “**REAR SPK**” (Rear Speaker) appears on the display.



The display changes to show the current setting.

2. Turn **MULTI JOG** to select the appropriate item about the speaker selected in the above step.



- As you turn it, the display changes to show the following:

← LARGE ↔ SMALL ↔ NONE ←

LARGE: Select this when the speaker size is relatively large.

SMALL: Select this when the speaker size is relatively small.

NONE: Select this when you have not connected a speaker. (Not selectable for the front speakers)

3. Repeat steps 1 and 2 to select the appropriate items for the other speakers.

Notes:

- Keep the following comment in mind as reference when adjusting.
 - If the size of the cone speaker unit built in your speaker is greater than 12 cm (4 3/4 inches), select “LARGE,” and if it is smaller than 12 cm (4 3/4 inches), select “SMALL.”
- If you have selected “NO” for the subwoofer setting, you can only select “LARGE” for the front speaker setting.
- If you have selected “SMALL” for the front speaker setting, you cannot select “LARGE” for the center and rear speaker settings.

Center Delay Time Setting

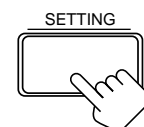
Register the delay time of the sound from the center speaker, comparing to that of the sound from the front speakers.

If the distance from your listening point to the center speaker is equal to that to the front speakers, select 0 msec. As the distance to the center speaker becomes shorter, increase the delay time.

- 1 msec increase (or decrease) in delay time corresponds to 30 cm (11 13/16 inches) decrease (or increase) in distance.
- When shipped from the factory, delay time is set to 0 msec.

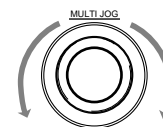
On the front panel ONLY:

1. Press **SETTING** repeatedly until “**CENTER DELAY**” appears on the display.



The display changes to show the current setting.

2. Turn **MULTI JOG** to select the delay time of the center speaker output.



- Turn it clockwise to increase the delay time from 0 msec (“C. DELAY: 0ms”) to 5 msec (“C. DELAY: 5ms”).
- Turn it counterclockwise to decrease the delay time from 5 msec (“C. DELAY: 5ms”) to 0 msec (“C. DELAY: 0ms”).

Notes:

- Center delay time setting is not valid for the DVD MULTI playback mode.
- You cannot adjust the center delay time when you have set “CENTER SPK” to “NONE”.

Rear Delay Time Setting

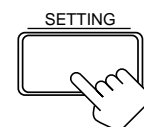
Register the delay time of the sound from the rear speakers, comparing to that of the sound from the front speakers.

If the distance from your listening point to the rear speakers is equal to that to the front speakers, select 0 msec. As the distance to the rear speakers becomes shorter, increase the delay time.

- 1 msec increase (or decrease) in delay time corresponds to 30 cm (11 13/16 inches) decrease (or increase) in distance.
- Rear delay time for Dolby Digital, DTS Digital Surround, and MPEG Multichannel is to be set to 5 msec.
- When shipped from the factory, delay time is set to 5 msec.

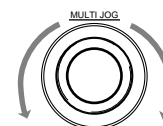
On the front panel ONLY:

1. Press **SETTING** repeatedly until “**REAR DELAY**” appears on the display.



The display changes to show the current setting.

2. Turn **MULTI JOG** to select the delay time of the rear speaker output.



- Turn it clockwise to increase the delay time from 0 msec (“R. DELAY: 0ms”) to 15 msec (“R. DELAY: 15ms”).
- Turn it counterclockwise to decrease the delay time from 15 msec (“R. DELAY: 15ms”) to 0 msec (“R. DELAY: 0ms”).

Notes:

- Rear delay time setting is not valid for the DVD MULTI playback mode.
- You cannot adjust the rear delay time when you have set “REAR SPK” to “NONE”.

Crossover Frequency Setting

Small speakers cannot reproduce the bass sound very well. So, if you have used a small speaker for any of the front, center, or rear channels, this receiver automatically reallocates the bass elements, originally assigned to the channel for which you have connected the small speaker, to another channel (for which you have connected the large speaker).

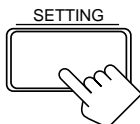
To use this function properly, you need to set the crossover frequency level according to the size of the small speaker connected.

- If you have selected "LARGE" for all speakers (see page 14), this function is set to "OFF" and can not be adjusted.

On the front panel ONLY:

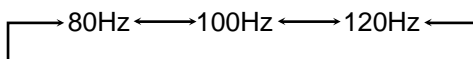
1. Press **SETTING** repeatedly until "**CROSSOVER FRQ**" (Crossover Frequency) appears on the display.

The display changes to show the current setting.



2. Turn **MULTI JOG** to select the crossover frequency level according to the size of the small speaker connected.

- As you turn it, the display changes to show the following:



- Use the following comments as reference when adjusting.

80Hz:	Select this when the cone speaker unit built in the speaker is about 12 cm (4 ³ / ₄ inches).
100Hz:	Select this when the cone speaker unit built in the speaker is about 10 cm (3 ¹⁵ / ₁₆ inches).
120Hz:	Select this when the cone speaker unit built in the speaker is about 8 cm (3 ³ / ₁₆ inches).

Note:

Crossover frequency setting is not valid for the DVD MULTI playback mode, 3D-PHONIC mode and HEADPHONE mode.

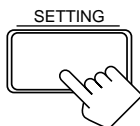
Low Frequency Effect Attenuator Setting

If the bass sound is distorted while playing back a source using Dolby Digital, DTS Digital Surround, or MPEG Multichannel, follow the procedure below.

On the front panel ONLY:

1. Press **SETTING** repeatedly until "**LFE ATT**" (Low Frequency Effect Attenuator) appears on the display.

The display changes to show the current setting.



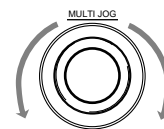
2. Turn **MULTI JOG** to select the low frequency effect attenuator level.

- As you turn it, the display changes to show the following:

0dB ← 10dB

0dB: Normally select this.

10dB: Select this when the bass sound is distorted.



Note:

Low frequency effect attenuator setting is not valid for the DVD MULTI playback mode.

Dynamic Range Compression Setting

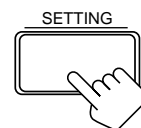
You can compress the dynamic range (difference between maximum sound and minimum sound) of the reproduced sound. This is useful when enjoying surround sound at night.

- This function takes effect only when playing back a source using Dolby Digital.

On the front panel ONLY:

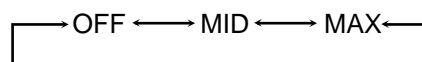
1. Press **SETTING** repeatedly until "**D. RANGE COMP.**" (Dynamic Range Compression) appears on the display.

The display changes to show the current setting.



2. Turn **MULTI JOG** to select the appropriate item about the compression level.

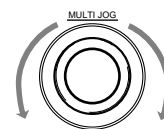
- As you turn it, the display changes to show the following:



OFF: Select this when you want to enjoy surround with its full dynamic range. (No effect applied)

MID: Select this when you want to reduce the dynamic range a little. (Factory setting)

MAX: Select this when you want to apply the compression effect fully. (Useful at night)



Note:

Dynamic Range Compression setting is not valid for the DTS Digital Surround, MPEG Multichannel and DVD MULTI playback mode.

Digital Input (DIGITAL IN) Terminal Setting

When you use the digital input terminals, you have to register what components are connected to which terminals (DIGITAL IN 1/2/3).

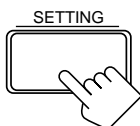
Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

1. Press **SETTING** repeatedly until **“DIGITAL IN”** appears on the display.

The display changes to show the current setting.



DIGITAL 2 terminal setting

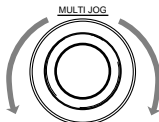


DIGITAL 1 terminal setting

DIGITAL 3 terminal setting

2. Turn **MULTI JOG** to select the appropriate digital terminal setting.

- As you turn it, the display changes to show the following:



1 DVD 2 CD 3 TV (or DBS*)	⇄
1 DVD 2 CD 3 MD	⇄
1 DVD 2 MD 3 TV (or DBS*)	⇄
1 CD 2 DVD 3 TV (or DBS*)	⇄
1 CD 2 DVD 3 MD	⇄
1 CD 2 MD 3 TV (or DBS*)	⇄
1 TV (or DBS*) 2 CD 3 DVD	⇄
1 TV (or DBS*) 2 CD 3 MD	⇄
1 TV (or DBS*) 2 DVD 3 MD	⇄
1 MD 2 CD 3 TV (or DBS*)	⇄
1 MD 2 CD 3 DVD	⇄
1 MD 2 DVD 3 TV (or DBS*)	⇄
(back to the beginning)	

* If you have changed the source name from “TV SOUND” to “DBS,” “DBS” appears.

Note:

When shipped from the factory, the DIGITAL IN terminals can be used as the digital input for the following components.

- DIGITAL 1 (coaxial): For DVD player
- DIGITAL 2 (optical): For CD player
- DIGITAL 3 (optical): For digital TV broadcast tuner

Selecting the Analog or Digital Input Mode

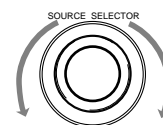
When you have connected some digital source components using the digital terminals (see page 8), you need to change the input mode for these components to the appropriate digital input mode correctly — AUTO/PCM, DOLBY DIGITAL, DTS or MPEG.

Before you start, remember...

- The digital input (DIGITAL IN) terminal setting should be correctly done for the sources you want to select the digital input mode for. Without setting this digital input terminal correctly, you cannot change the input mode from analog input to digital input even if you follow the procedure below.

On the front panel:

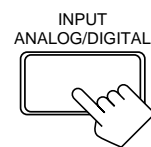
1. Turn **SOURCE SELECTOR** until the source (CD, MD, TV SOUND, DBS, or DVD)* for which you want to change the input mode appears on the display.



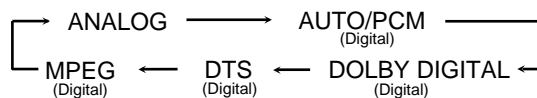
Note:

* Among the sources listed above, you can select the digital input only for the sources which you have selected the digital input terminals for. (See “Digital Input (DIGITAL IN) Terminal Setting.”)

2. Press **INPUT ANALOG/DIGITAL** repeatedly until the digital input mode you want appears on the display.



- Each time you press the button, the input mode changes as follows:



Normally select “AUTO/PCM,” so the receiver automatically detects the incoming digital signal format. (The DIGITAL AUTO indicator lights up on the display.)

- When the receiver can recognize the digital signal format coming into the receiver, the frame of the digital signal indicator for the detected signal lights up automatically.
- When the receiver cannot recognize the incoming signal format correctly, the frame of the digital signal indicator flashes.

If this happens, select the same digital input mode with the incoming digital signal — “DOLBY DIGITAL”, “DTS” or “MPEG.”

To change the input mode back to analog input, select “ANALOG.”

From the remote control:

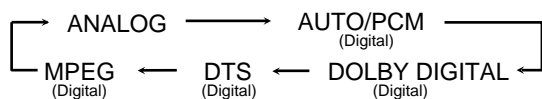
1. Press the source selecting button (CD, TAPE/MD, TV/DBS, or DVD)* for which you want to change the input mode.

**Note:**

* Among the sources listed above, you can select the digital input only for the sources which you have selected the digital input terminals for. (See "Digital Input (DIGITAL IN) Terminal Setting.")

2. Press ANALOG/DIGITAL to change the input mode.

- Each time you press the button, the input mode changes as follows:

**Notes:**

- Noise may come out of the speakers while searching or skipping a multi-sound source encoded with Dolby Digital, DTS Digital Surround or MPEG Multichannel. If this happens, select "DOLBY DIGITAL", "DTS" or "MPEG" for digital input mode.
- When you change the source, the digital input mode will be automatically reset to "AUTO/PCM."

Showing the Text Information on the Display

When you have connected an MD recorder or CD player equipped with TEXT COMPU LINK remote control system (see page 40), you can show the text information, such as disc title or track title, on the display of this receiver. To show it on the display, follow the procedure below.

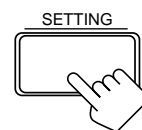
Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

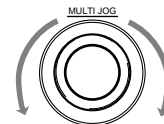
1. Press SETTING repeatedly until "FL DISPLAY" appears on the display.

The display changes to show the current setting.



2. Turn MULTI JOG to select either the source name or the text information to be shown on the display.

- As you turn it, the display changes to show the following:



NORMAL ←→ TEXT

NORMAL: Source name appears during play.

TEXT: Text information appears during play.

Note:

Though you have selected "TEXT," the source name such as "CD" or "MD" appears if a playing disc has no text information.

Storing the Basic Settings and Adjustments — One Touch Operation

JVC's One Touch Operation function is used to assign and store different sound settings for each different playing source. By using this function, you do not have to change the settings every time you change the source. The stored settings for the newly selected source are automatically recalled.

The following can be stored for each source:

- Volume level (see page 11)
- Bass boost (see page 12)
- Input attenuator mode (see page 12)
- Subwoofer output level (see page 12)
- Balance (see page 13)
- SEA modes (see page 24)
- DSP modes
 - 3D-PHONIC mode settings (see page 28)
 - DAP mode settings (see page 28)
 - Surround mode settings (see page 29)
- DVD MULTI playback mode settings (see page 33)

On the front panel ONLY:

To store the sound settings

1. Press ONE TOUCH OPERATION.

The ONE TOUCH OPERATION lamp lights up, then the previously memorized settings are recalled.



2. Adjust the sound using the functions listed above.

The newly adjusted settings are memorized.

To recall the sound settings

With the ONE TOUCH OPERATION lamp lit, the settings for the currently selected source are recalled when the source is selected.

To cancel the One Touch Operation function

Press ONE TOUCH OPERATION so that the lamp goes off. (Even though the One Touch Operation function is canceled, the recalled sound effects remain active.)

Notes:

- If the source is FM or AM (MW/LW), you can assign a different setting for each band.
- The DSP modes and DVD MULTI playback mode cannot be used at the same time.

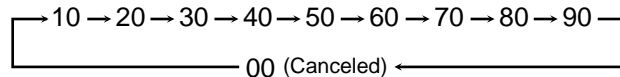
Using the Sleep Timer

Using the Sleep Timer, you can fall asleep to music and know the receiver will turn off by itself rather than play all night.

From the remote control ONLY:

Press SLEEP repeatedly.

The SLEEP indicator lights up on the display, and the shut-off time changes as follows (in minutes):



When the shut-off time comes

The receiver turns off automatically.

To check or change the time remaining until the shut-off time

Press SLEEP once.

The remaining time until the shut-off time appears in minutes.

- To change the shut-off time, press SLEEP repeatedly.

To cancel the Sleep Timer

Press SLEEP repeatedly until "SLEEP 00min." appears on the display. (The SLEEP indicator goes off.)

- Turning off the power also cancels the Sleep Timer.

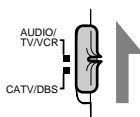
Receiving Radio Broadcasts

You can browse through all the stations or use the preset function to go immediately to a particular station.

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position:

To operate this receiver, set it to "AUDIO/TV/VCR".

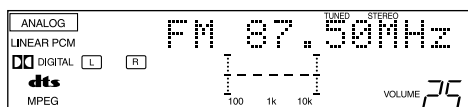
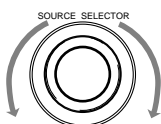


Tuning in Stations Manually

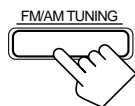
On the front panel ONLY:

1. Turn **SOURCE SELECTOR** to select the band (FM or AM — MW/LW).

The last received station of the selected band is tuned in.

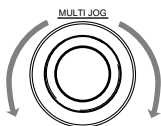


2. Press **FM/AM TUNING**.



3. Turn **MULTI JOG** until you find the frequency you want.

- Turning it clockwise increases the frequency.
- Turning it counterclockwise decreases the frequency.
- When you turn MULTI JOG quickly, the frequency keeps changing until a station is tuned in.



Note:

When a station of sufficient signal strength is tuned in, the **TUNED** indicator lights up on the display.

When an FM stereo program is received, the **STEREO** indicator also lights up.

Using Preset Tuning

Once a station is assigned to a channel number, the station can be quickly tuned. You can preset up to 30 FM and 15 AM (MW/LW) stations.

To store the preset stations

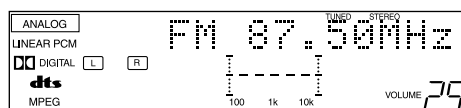
Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

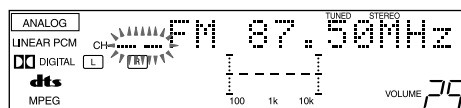
On the front panel ONLY:

1. Tune in the station you want to preset (see "Tuning in Stations Manually").

- If you want to store the FM reception mode for this station, select the FM reception mode you want. See "Selecting the FM Reception Mode" on page 20.

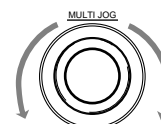


2. Press **TUNER (/SEA) MEMORY**.



"CH-" appears and the channel number position starts flashing on the display for about 10 seconds.

3. Turn **MULTI JOG** to select a channel number while the channel number position is flashing.



Note:

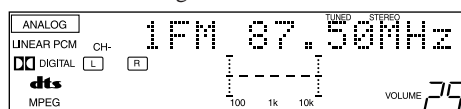
You can use the 10 keys on the remote control to select the preset number. When using the 10 keys, be sure that they are activated for the tuner, not for the CD and others. (See page 45.)

4. Press **TUNER (/SEA) MEMORY** again while the selected channel number is flashing on the display.



The selected channel number stops flashing.

The station is assigned to the selected channel number.



5. Repeat steps 1 to 4 until you store all the stations you want.

To erase a stored preset station

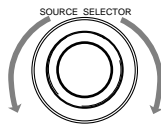
Storing a new station on a used number erases the previously stored one.

To tune in a preset station

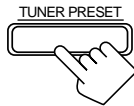
On the front panel:

1. Turn **SOURCE SELECTOR** to select the band (FM or AM — MW/LW).

The last received station of the selected band is tuned in.

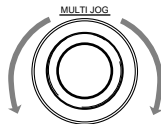


2. Press **TUNER PRESET**.



3. Turn **MULTI JOG** until you find the channel you want.

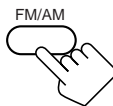
- Turning it clockwise increases the channel numbers.
- Turning it counterclockwise decreases the channel numbers.



From the remote control:

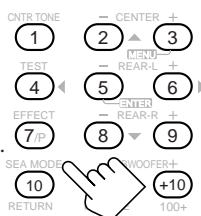
1. Press **FM/AM**.

- Each time you press the button, the band alternates between FM and AM (MW/LW).



2. Press the **10 keys** to select a preset channel number.

- For channel number 5, press 5.
- For channel number 15, press +10 then 5.
- For channel number 20, press +10 then 10.
- For channel number 30, press +10, +10, then 10.



Note:

When you use the 10 keys on the remote control, be sure that they are activated for the tuner, not for the CD and others. (See page 45.)

Selecting the FM Reception Mode

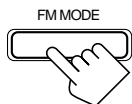
When an FM stereo broadcast is hard to receive or noisy

You can change the FM reception mode while receiving an FM broadcast.

- You can store the FM reception mode for each preset station.

Press FM MODE on the front panel or on the remote control.

- Each time you press the button, the FM reception mode alternates between "AUTO MUTING" and "MONO."



On the front panel



On the remote control

AUTO MUTING: When a program is broadcasted in stereo, you will hear stereo sound; when in monaural, you will hear monaural sounds. This mode is also useful to suppress static noise between stations. The AUTO MUTING indicator lights up on the display.

MONO: Reception will be improved although you will lose the stereo effect. In this mode, you will hear noise while tuning into the stations. The AUTO MUTING indicator goes off on the display.

Note:

When using the FM MODE button on the remote control, be sure that the 10 keys are activated for the tuner, not for the CD and others. (See page 45.)

Assigning Names to Preset Stations

You can assign a name of up to four characters to each preset station. When a preset station is tuned in, its assigned name will appear on the display.

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You can use the following characters: Space (), A – Z, and 0 – 9.

On the front panel ONLY:

1. Tune in a preset station.

See the left.

2. Press **TUNER (/SEA) MEMORY**.

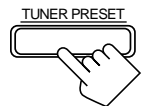
The preset channel number starts flashing for about 10 seconds.



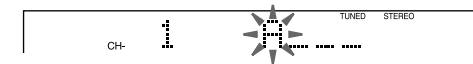
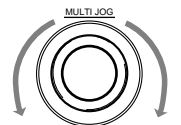
- If you turn MULTI JOG while the preset channel number is flashing, you can change the preset channel number.

3. Press **TUNER PRESET**, while the preset channel number is flashing.

The first character position starts flashing.

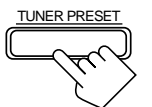


4. Turn **MULTI JOG** to select the first character, while the first character position is flashing.



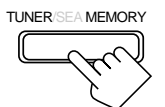
5. Press **TUNER PRESET**, while a character you want is flashing.

The next character position starts flashing.



6. Repeat steps 4 and 5 to enter up to four characters.

7. Press **TUNER (/SEA) MEMORY** while the last selected character is flashing after you have assigned a name.



To erase the input characters

Insert spaces using the same procedure described above.

Using the RDS (Radio Data System) to Receive FM Stations

RDS allows FM stations to send an additional signal along with their regular program signals. For example, the stations send their station names, as well as information about what type of program they broadcast, such as sports or music, etc.

When tuned to an FM station which provides the RDS service, the RDS indicator lights up on the display.

With the receiver, you can receive the following types of RDS signals.

PS (Program Service): Shows commonly known station names

PTY (Program Type): Shows types of broadcast programs

RT (Radio Text): Shows text messages the station sends

EON (Enhanced Other Network): See page 23.

Notes:

- RDS is not available for AM (MW/LW) broadcasts.
- RDS may not operate correctly if the station tuned is not transmitting RDS signal properly or if the signal strength is weak.

What information can RDS signals provide?

You can see the RDS signals the station sends on the display.

To show the RDS signals

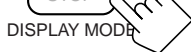
Press **DISPLAY MODE** while listening to an FM station.

DISPLAY MODE



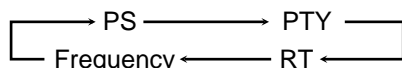
On the front panel

STOP



On the remote

- Each time you press the button, the display changes to show you the following information:



PS (Program Service):

While searching, "PS" appears and then the station names will be displayed. "NO PS" appears if no signal is sent.

PTY (Program Type):

While searching, "PTY" appears and then the type of the broadcast program will be displayed. "NO PTY" appears if no signal is sent.

RT (Radio Text):

While searching, "RT" appears and then text messages the station sends will be displayed. "NO RT" appears if no signal is sent.

Frequency:

Station frequency (non-RDS service)

Notes:

- When pressing **DISPLAY MODE** on the remote control, make sure that you have selected FM station using the remote control. If not, the **DISPLAY MODE** button does not work for tuner operation. (Pressing **FM/AM** activates the remote control for tuner operation.)
- If searching finishes at once, "PS," "PTY," and "RT" will not appear on the display.

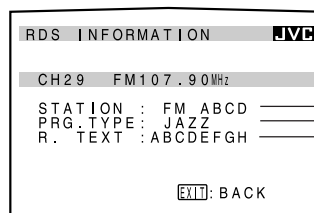
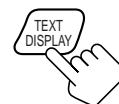
You can also show the RDS information on the TV screen.

To use this function, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 7), and set the TV's input mode to the proper position to which the receiver is connected.

- When the TV's input mode is incorrect; for example, a different video input or TV tuner mode is selected, you cannot show the RDS information on the TV screen.

Press **TEXT DISPLAY** while listening to an FM station.

The following information appears on the TV screen.



Selected station
Program service
Program type
Radio text

To erase the RDS information, press EXIT.



Note:

The on-screen display will disappear in the following case:

- if no operation is done for about 10 minutes.
- if you do any operation other than explained in this section.

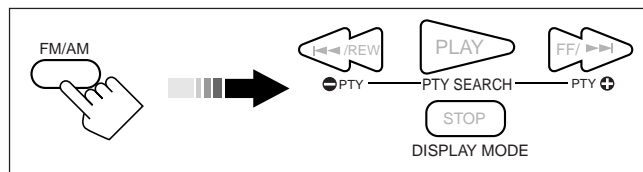
Searching for a Program by PTY Codes

One of the advantages of the RDS service is that you can locate a particular kind of program from the preset channels (see page 19) by specifying the PTY codes.

To search for a program using the PTY codes

Before you start, remember...

- The PTY Search is only applicable to preset stations.
- To stop searching any time during the process, press **PTY SEARCH** while searching.
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- When pressing the buttons on the remote control, make sure that you have selected the FM station using the remote control. If not, the RDS operation buttons do not work for RDS operation. (Pressing **FM/AM** activates the remote control for RDS operation.)



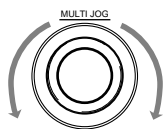
On the front panel:

1. Press **PTY SEARCH** while listening to an FM station.

"PTY SELECT" flashes on the display.



2. Turn **MULTI JOG** until the **PTY** code you want appears on the display, while “**PTY SELECT**” is flashing.



The display gives you the PTY codes described to the right.

3. Press **PTY SEARCH** again, while the **PTY** code selected in the previous step is still on the display.



While searching, “SEARCH” and the selected PTY code alternate on the display.

The receiver searches 30 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

To continue searching after the first stop

Press **PTY SEARCH** again while the indications on the display are flashing.

If no program is found, “NOTFOUND” appears on the display.

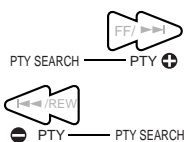
From the remote control:

1. Press **PTY SEARCH** while listening to an FM station.

“PTY SELECT” flashes on the display.



2. Press and hold **PTY +/-** until the **PTY** code you want appears on the display, while “**PTY SELECT**” is flashing.



The display gives you the PTY codes described to the right.

3. Press **PTY SEARCH** again, while the **PTY** code selected in the previous step is still on the display.



While searching, “SEARCH” and the selected PTY code alternate on the display.

The receiver searches 30 preset FM stations, stops when it finds the one you have selected, and tunes in that station.

To continue searching after the first stop

Press **PTY SEARCH** again while the indications on the display are flashing.

If no program is found, “NOTFOUND” appears on the display.

PTY codes



When an emergency broadcast (Alarm ! signal) is sent from an FM station:

The receiver automatically tunes in the station except in the following cases:

- When you are listening to non-RDS stations (all AM — MW/LW and some FM stations).
- When the receiver is in standby mode.

While receiving an emergency broadcast, “Alarm !” appears on the display.

The TEST signal is used for equipment test — whether it can receive the Alarm ! signal correctly.

The TEST signal makes the receiver work in the same way as the Alarm ! signal does. If the TEST signal is received, the receiver automatically switches to the station broadcasting the TEST signal. While receiving the test signal, “TEST” appears on the display.

Switching to a Broadcast Program of Your Choice Temporarily

Another convenient RDS service is called “EON (Enhanced Other Network).”

The EON indicator lights up while receiving a station with the EON code.

This allows the receiver to switch temporarily to a broadcast program of your choice (NEWS, TA, and/or INFO) from a different station except in the following cases:

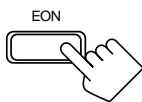
- When you are listening to non-RDS stations (all AM — MW/LW and some FM stations).
- When the last received FM station is a non-RDS station.
- When the receiver is in standby mode.

Before you start, remember...

- The EON function is only applicable to preset stations.

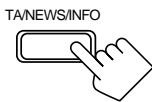
On the front panel ONLY:

1. Press EON so that the last selected program type appears on the display.

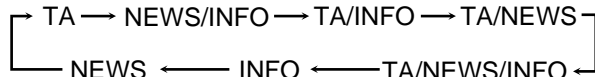


The receiver enters EON standby mode. When the receiver is in EON standby mode, the receiver is ready to receive the EON data (TA/NEWS/INFO) you select.

2. Press TA/NEWS/INFO until the program type you want appears on the display.



- Each time you press the button, the display changes to show the following:



TA: Traffic Announcement in your area.

NEWS: News.

INFO: Program the purpose of which is to impart advice in the widest sense.

CASE 1 If there is no station broadcasting the program you have selected

The receiver continues playing the current source (all sources except AM — MW/LW).



When a station starts broadcasting the program you have selected, the receiver automatically switches to the station. The indicator of received PTY code starts flashing.



When the program is over, the receiver goes back to the previously selected source, but still remains in EON standby mode. The indicator of received PTY code stops flashing and remains lit.

CASE 2 If there is a station broadcasting the program you have selected

The receiver changes the source (all sources except AM — MW/LW), and tunes in the station. The indicator of received PTY code starts flashing.



When the program is over, the receiver goes back to the previously selected source, but still remains in EON standby mode. The indicator of received PTY code stops flashing and remains lit.

CASE 3 If the FM station you are listening to is broadcasting the program you have selected

The receiver continues to receive the station, but the indicator of received PTY code starts flashing.



When the program is over, the indicator of received PTY code stops flashing and remains lit, but the receiver remains in EON standby mode.

To stop listening to the program selected by EON

Press EON so that the program type (TA/NEWS/INFO) indicator goes off from the display. The receiver enters EON off mode and goes back to the previously selected source.

- Each time you press EON, the EON mode alternates between standby mode and off mode.

Notes:

- EON data sent from some stations may not be compatible with this receiver.
- In EON standby mode, if you change the source to AM (MW/LW) or if you carry out synchronized recording (see page 39), EON standby mode is canceled temporarily. The receiver goes back to EON standby mode again when you have finished that operation.
- While listening to a program tuned in by the EON function, you cannot use source selecting buttons and PTY SEARCH button.
- While listening to a program tuned in by the EON function, you cannot perform the on-screen operations (pages 34 and 41).

CAUTION:

When the source alternates intermittently between the station tuned in by the EON function and the currently selected source, press EON to cancel the EON function.

If you do not press the button, the currently tuned station is received finally, and the indication of the EON program type flashing on the display disappears.

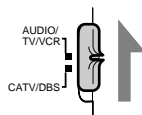
Using the SEA Modes

The SEA (Sound Effect Amplifier) modes give you control of the way your music sounds.

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position:

To operate this receiver, set it to "AUDIO/TV/VCR".



Creating Your Own SEA Mode

You can adjust and store your own SEA adjustment into memory (SEA USERMODE).

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

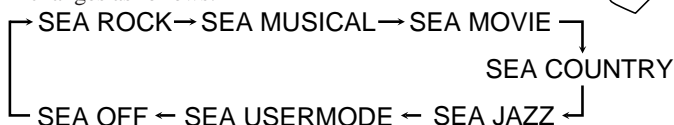
If you do not want to store your adjustment, but rather want to adjust the SEA temporarily, skip step 4 below.

Selecting Your Favorite SEA Mode

On the front panel:

Press SEA MODE repeatedly until the SEA mode you want appears on the display.

- Each time you press the button, the SEA mode changes as follows:



SEA ROCK:	Gives a heavy sound. Both high and low frequencies are boosted.
SEA MUSICAL:	Enhances the mid-frequency range, which the human voice is mostly made up of.
SEA MOVIE:	Adds breadth to sounds so you feel like you are in a movie theater.
SEA COUNTRY:	Enhances the high-frequency range so that instruments such as the violin and banjo are emphasized.
SEA JAZZ:	Gives a feeling of a live atmosphere. Good for acoustic music.
SEA USERMODE:	Your original SEA adjustment (see the right).
SEA OFF:	No SEA mode is applied (see below).

Notes:

- The SEA modes cannot be used for recording.
- When the SEA mode is turned on, the SEA indicator lights up on the display.
- When the SEA mode is used with the DAP mode (see page 28), sounds may be distorted. If this happens, turn off the DAP mode or decrease the effect level of the DAP mode.

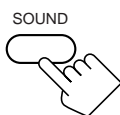
To cancel the SEA mode

Press SEA MODE repeatedly until "SEA OFF" appears. The SEA indicator goes off from the display.

From the remote control:

1. Press SOUND.

The 10 keys are activated for sound adjustments.



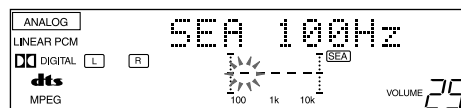
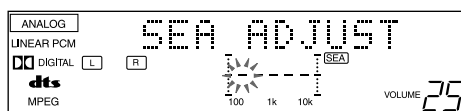
2. Press SEA MODE repeatedly until the SEA mode you want appears on the display.



To cancel the SEA mode

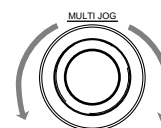
Press SEA MODE repeatedly until "SEA OFF" appears in step 2 above. The SEA indicator goes off from the display.

1. Press SEA ADJUST repeatedly until the frequency range (100 Hz, 1 kHz or 10 kHz) you want appears on the display.



2. Turn MULTI JOG to adjust the SEA level of the selected frequency range.

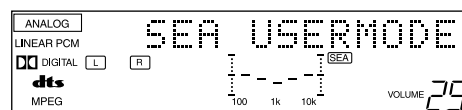
- Turning it clockwise increases the level.
- Turning it counterclockwise decreases the level.



3. Repeat steps 1 and 2 to adjust other frequency ranges if necessary.

4. Press (TUNER/) SEA MEMORY.

Your adjustment is stored into the SEA USERMODE.



To recall your own SEA adjustment

Press SEA MODE repeatedly until "SEA USERMODE" appears.

To erase a stored adjustment

Storing a new adjustment into SEA USERMODE erases the previously stored one.

Using the DSP Modes

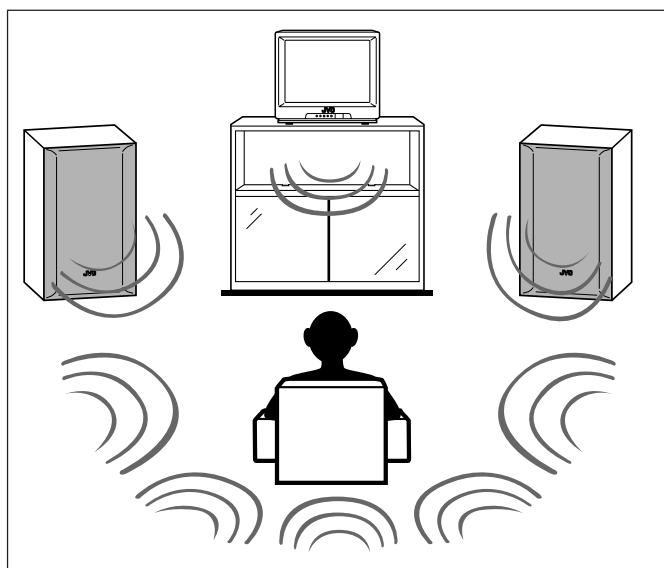
The built-in Surround Processor provides three types of the DSP (Digital Signal Processor) mode — 3D-PHONIC mode, DAP (Digital Acoustic Processor) mode and Surround mode.

3D-PHONIC modes

The 3D-PHONIC mode gives you such a nearly surround effect as is reproduced through the Dolby Surround decoder, which is widely used to reproduce sounds with a feeling of movement like those experienced in movie theaters. The 3D-PHONIC mode is the result of research on sound localization technology carried out at JVC for many years. **This mode can be used when the front speakers are connected to this receiver (without respect to the rear/center speaker connection).**

3D ACTION: Best for action and war movies — where the action is fast and explosive.

3D THEATER: Reproduces the sound field of a large theater. This mode can be selected when only front speakers are connected to this receiver and “REAR SPK” and “CENTER SPK” are set to “NONE” (see page 14).



DAP modes

The sound heard in a concert hall or club consists of direct sound and indirect sound — early reflections and reflections from behind. Direct sounds reach the listener directly without any reflection. On the other hand, indirect sounds are delayed by the distances of the ceiling and walls. These direct sounds and indirect sounds are the most important elements of the acoustic surround effects. The DAP mode can create these important elements, and gives you a real “being there” feeling. **This mode can be used when the front speakers are connected to this receiver (without respect to the rear/center speaker connection).**

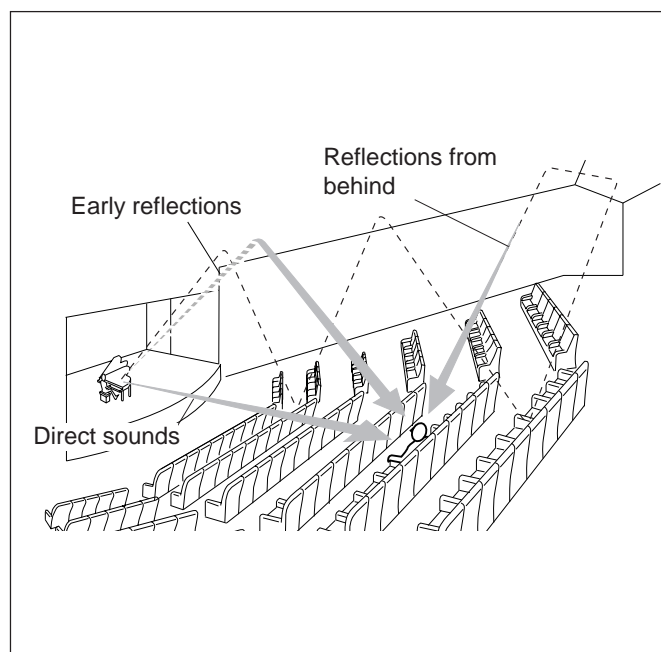
You can select one of the following to your preference while playing an analog or linear PCM source.

LIVE CLUB: Gives the feeling of a live music club with a low ceiling.

DANCE CLUB: Gives a throbbing bass beat.

HALL: Gives clear vocal and the feeling of a concert hall.

PAVILION: Gives the spacious feeling of a pavilion with a high ceiling.



Surround modes

With this receiver, you can use four types of the Surround mode. **Following modes cannot be used when only the front speakers are connected to this receiver (without the rear speakers or center speaker).**

Dolby Surround (Dolby Digital and Dolby Pro Logic)*

Used to watch the soundtracks of software encoded with Dolby Digital (bearing the mark ) or with Dolby Surround (bearing the mark .

Dolby Surround encoding format records the left front channel, right front channel, center channel, and rear channel (total 4 channels) signals into 2 channels. The Dolby Pro Logic decoder built in this receiver decode these 2 channel signals into original 4 channel signals — matrix-based multichannel reproduction, and allows you to enjoy the realistic stereo sounds in your listening room.

On the other hand, Dolby Digital encoding method (so called a discrete 5.1 channel digital audio format) records and compresses the left front channel, right front channel, center channel, left rear channel, right rear channel, and LFE channel (total 6 channels, but LFE channel is counted as 0.1 channel, therefore called 5.1 channels) signals digitally. Each channel is completely independent from other channel signals to avoid interference, therefore, you can obtain much better sound quality with much stereo and surround effects.

The Dolby Digital decoder built in this receiver can create much more realistic sound field in your listening room. You may feel as if you were in a real theater.

In addition, Dolby Digital enables stereo rear sounds, and sets the cutoff frequency of the rear treble at 20 kHz, comparing to 7 kHz for Dolby Pro Logic. These facts enhance the sound movement and being-there feelings much more than Dolby Pro Logic.

- To enjoy the software encoded with Dolby Digital, you must connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

DTS Digital Surround**


DTS Digital Surround is another discrete 5.1 channel digital audio format available on CD, LD, and DVD software.

Comparing to Dolby Digital, audio compression rate is relatively low. This fact allows DTS Digital Surround format to have more data recorded than Dolby Digital even using the same media, and to add breadth and depth to the reproduced sounds. As a result, DTS Digital Surround features natural, solid and clear sound.

- To enjoy the software encoded with DTS Digital Surround, you must connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

MPEG Multichannel


MPEG Multichannel is another discrete 5.1 channel digital audio format available on DVD software, and uses encoding method called MPEG2-Audio. (MPEG stands for “Motion Picture Expert Group” and has been originally developed for compressing video signals.)

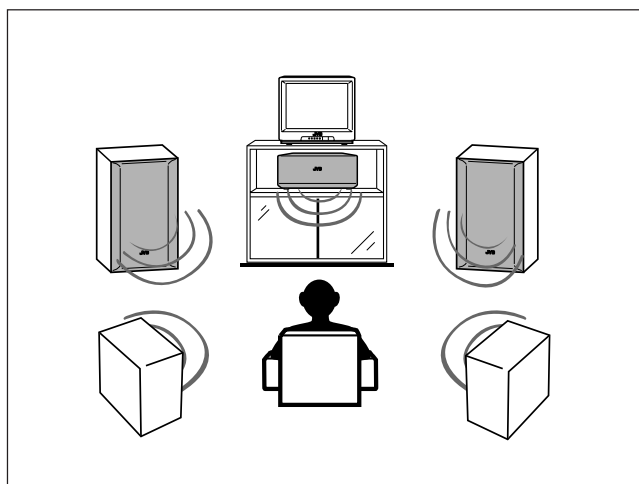
To watch the soundtracks of video software bearing the mark , the receiver can provide you with MPEG Multichannel decoder.

MPEG Multichannel is automatically selected according to software played back and the speaker arrangement you have done.


- To enjoy the software encoded with MPEG Multichannel, you must connect the source component using the digital terminal on the rear of this receiver. (See page 8.)

JVC Theater Surround

In order to reproduce a more realistic sound field in your listening room while playing soundtracks of software encoded with Dolby Surround (bearing the mark ) you can use JVC Theater Surround.



Notes:

- The DSP modes have no effect on monaural sources.
- When you select “DVD MULTI” as the source to play, you cannot select or adjust the DSP modes.
- The  PRO LOGIC indicator lights up when the Dolby Pro Logic decoder built in this receiver is activated.

DVD MULTI Playback Mode

This receiver provides the DVD MULTI playback mode for reproducing the analog discrete 5.1 channel output mode of the DVD player or other equipment.

You can adjust the DVD MULTI playback mode while playing back a video software such as a DVD using the analog discrete 5.1 channel output mode.

- For the DVD MULTI playback mode connection, see page 7.
- For details on the DVD MULTI playback mode, see page 33.

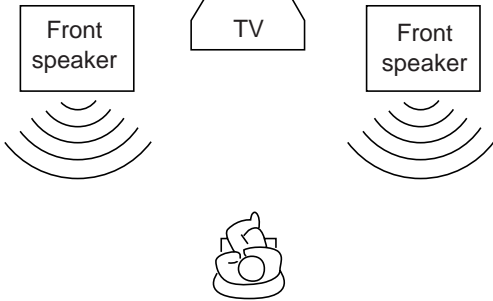
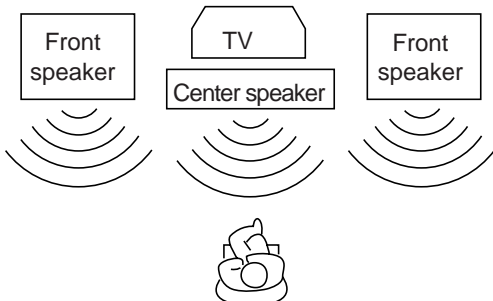
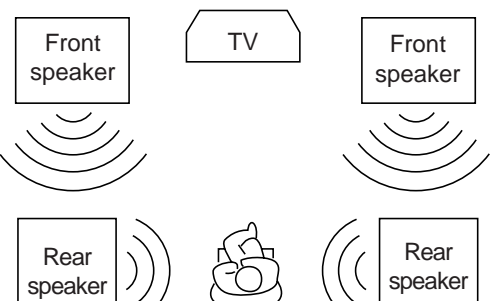
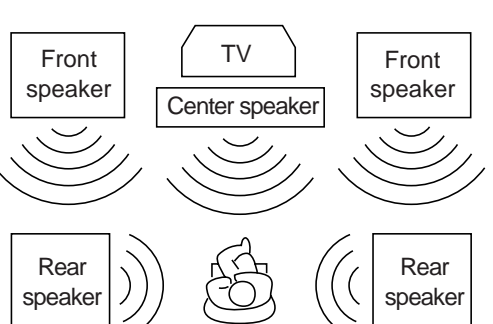
* Manufactured under license from Dolby Laboratories. “Dolby,” “Pro Logic,” and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992–1997 Dolby Laboratories, Inc. All rights reserved.

** Manufactured under license from Digital Theater Systems, Inc. US Pat. No. 5,451,942 and other world-wide patents issues and pending. “DTS” and “DTS Digital Surround” are trademarks of Digital Theater Systems, Inc. ©1996 Digital Theater Systems, Inc. All rights reserved.

Available DSP Modes According to the Speaker Arrangement

Available DSP modes will vary depending on how many speakers are used with this receiver.

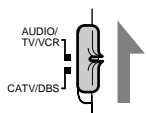
Make sure that you have set the speaker information correctly (see page 14).

Speaker arrangements	Available DSP modes
	<p>Each time you press DSP MODE on the front panel or SURROUND MODE on the remote control, the DSP modes change as follows:</p> <ul style="list-style-type: none"> • 3D THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION • DSP OFF (DSP mode is canceled)
	<p>Each time you press DSP MODE on the front panel or SURROUND MODE on the remote control, the DSP modes change as follows:</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="689 931 1040 1155" style="width: 48%;"> <p>By pressing DSP MODE:</p> <ul style="list-style-type: none"> • THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION • DSP OFF (DSP mode is canceled) </div> <div data-bbox="1072 931 1455 1281" style="width: 48%;"> <p>By pressing SURROUND MODE:</p> <ul style="list-style-type: none"> • DOLBY/DTS/MPEG SURROUND (DOLBY PRO LOGIC, DOLBY DIGITAL*, DTS SURROUND**, or MPEG SURROUND***) • THEATER • LIVE CLUB • DANCE CLUB • HALL • PAVILION • 3D ACTION • DSP OFF (DSP mode is canceled) </div> </div>
	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p>To activate the Surround mode, press SURROUND ON/OFF button so that the lamp on the button lights up.</p> </div> <div style="border: 1px solid black; padding: 5px;"> <p>To activate the Surround mode, you can also use the SURROUND ON/OFF button.</p> </div>
	<p>* Activated automatically only when "AUTO/PCM" is selected as the digital input and playback source is encoded with Dolby Digital.</p> <p>** Activated automatically only when "AUTO/PCM" is selected as the digital input and playback source is encoded with DTS Digital Surround.</p> <p>*** Activated automatically only when "AUTO/PCM" is selected as the digital input and playback source is encoded with MPEG Multichannel.</p> <p>Notes:</p> <ul style="list-style-type: none"> • If Surround mode is canceled while playing back a multichannel source such as Dolby Digital, DTS Digital Surround and MPEG Multichannel, all channel signals are mixed with left and right front channels and are output through the front speakers. • While playing back a multichannel source such as Dolby Digital, DTS Digital Surround and MPEG Multichannel, Theater Surround, DAP modes, and 3D-PHONIC modes cannot be used. On the other hands, if you select a Dolby Digital, DTS Digital Surround and MPEG Multichannel as the source to play while using any of Theater Surround, DAP modes, and 3D-PHONIC modes, the currently selected mode will be canceled and Dolby Digital, DTS Digital Surround or MPEG multichannel mode will be activated.

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position:

To operate this receiver, set it to "AUDIO/TV/VCR".



Adjusting the 3D-PHONIC Modes

Once you have adjusted the 3D-PHONIC modes, the adjustment is memorized for each 3D-PHONIC mode.

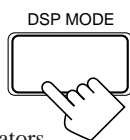
Before you start, remember...

- Make sure that you have set the speaker information correctly (see page 14).
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel:

1. Press **DSP MODE** repeatedly until "3D ACTION" or "3D THEATER" appears on the display.

The 3D-PHONIC, DSP and PRO LOGIC indicators also light up on the display.



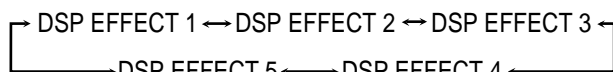
2. Adjust the effect level.

- 1) Press **(BALANCE/)/ SURROUND ADJUST** repeatedly until "DSP EFFECT" appears on the display.

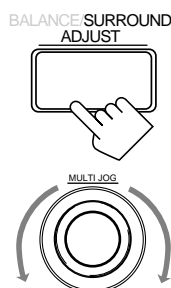
The display changes to show the current setting.

- 2) Turn **MULTI JOG** to select the effect level.

- As you turn it, the effect level changes as follows:



As the number increases, the selected 3D-PHONIC mode becomes stronger.



From the remote control:

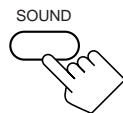
1. Press **SURROUND MODE** repeatedly until "3D ACTION" or "3D THEATER" appears on the display.

The 3D-PHONIC, DSP, and PRO LOGIC indicators also light up on the display.



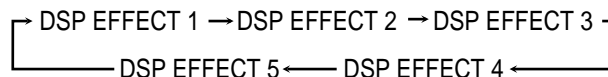
2. Press **SOUND**.

The 10 keys are activated for sound adjustments.



3. Press **EFFECT** to select an effect level you want.

- Each time you press the button, the effect level changes as follows:



As the number increases, the selected 3D-PHONIC mode becomes stronger.

Adjusting the DAP Modes

Once you have adjusted the DAP modes, the adjustment is memorized for each DAP mode.

Before you start, remember...

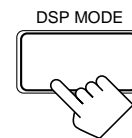
- Make sure that you have set the speaker information correctly (see page 14).
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You cannot adjust the rear speaker output level when you have set "REAR SPK" to "NONE." See page 14.
- When the DAP mode is used with the SEA mode (see page 24), sounds may be distorted. If this happens, turn off the SEA mode.

On the front panel:

1. Press **DSP MODE** repeatedly until the DAP mode — **LIVE CLUB, DANCE CLUB, HALL, or PAVILION** — appears on the display.

The DSP indicator also lights up on the display.

- When you have set "REAR SPK" to "NONE," the 3D-PHONIC indicator also lights up.



2. Adjust the speaker output levels.

- 1) Press **(BALANCE/)/ SURROUND ADJUST** repeatedly until one of the indications appears on the display.

"REAR L LEVEL":

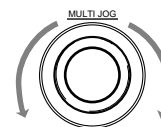
To adjust the left rear speaker level.

"REAR R LEVEL":

To adjust the right rear speaker level.

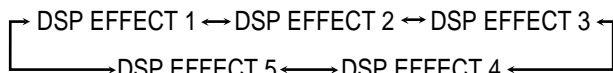
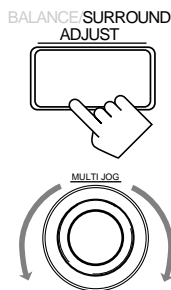
- 2) Turn **MULTI JOG** to adjust the selected speaker output level (from -10 dB to +10 dB).

- 3) Repeat 1) and 2) to adjust the other speaker output level.



3. Adjust the effect level.

- 1) Press (BALANCE/) SURROUND ADJUST repeatedly until "DSP EFFECT" appears on the display. The display changes to show the current setting.
- 2) Turn MULTI JOG to select the effect level.
 - As you turn it, the effect level changes as follows:



As the number increases, the selected DAP mode becomes stronger.

From the remote control:

1. Press SURROUND MODE repeatedly until the DAP mode — LIVE CLUB, DANCE CLUB, HALL, or PAVILION — appears on the display.

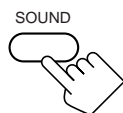


The DSP indicator also lights up on the display.

- When you have set "REAR SPK" to "NONE," the 3D-PHONIC indicator also lights up.

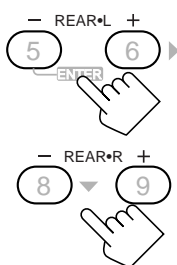
2. Press SOUND.

The 10 keys are activated for sound adjustments.



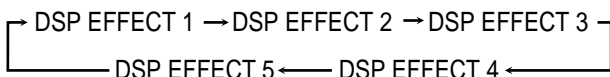
3. Adjust the speaker output levels.

- To adjust the left rear speaker level, press REAR•L -/+ (from -10 dB to +10 dB).
- To adjust the right rear speaker level, press REAR•R -/+ (from -10 dB to +10 dB).



4. Press EFFECT to select an effect level you want.

- Each time you press the button, the effect level changes as follows:



As the number increases, the selected DAP mode becomes stronger.

Adjusting the Surround Modes

Once you have adjusted the Surround modes, the adjustment is memorized for each Surround mode.

Dolby/DTS/MPEG Surround adjustments

Before you start, remember...

- Make sure that you have set the speaker information correctly (see page 14).
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You cannot adjust the rear speaker output levels when you have set "REAR SPK" to "NONE." See page 14.
- You cannot adjust the center speaker output level when you have set "CENTER SPK" to "NONE." See page 14.

From the remote control:

1. Press SURROUND ON/OFF to activate an appropriate surround mode — PRO LOGIC, DOLBY DIGITAL, DTS SURROUND, or MPEG SURROUND.



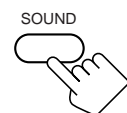
- Each time you press the button, the Surround mode turns on and off alternately
- When "PRO LOGIC" is selected, the PRO LOGIC indicator lights up on the display.

Note:

You can also press SURROUND MODE to activate an appropriate Surround mode.

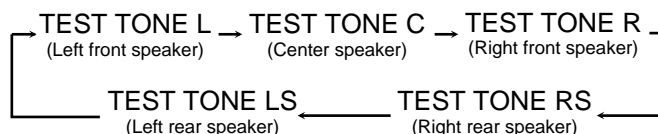
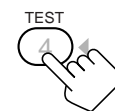
2. Press SOUND.

The 10 keys are activated for sound adjustments.



3. Press TEST to check the speaker output balance.

"TEST TONE L" starts flashing on the display, and a test tone comes out of the speakers in the following order:

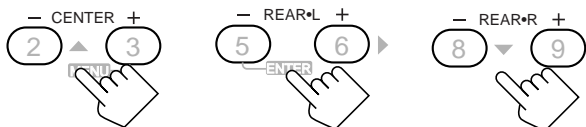


Notes:

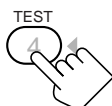
- You can adjust the speaker output levels without outputting the test tone.
- No test tone comes out of the center speaker when "CENTER SPK" is set to "NONE" (see page 14).
- No test tone comes out of the rear speakers when "REAR SPK" is set to "NONE" (see page 14).
- If the TV is turned on and the proper video input is selected on the TV, the test tone screen will appear on the TV.

4. Adjust the speaker output levels.

- To adjust the center speaker level, press CENTER $-/+$ (from -10 dB to $+10$ dB).
- To adjust the left rear speaker level, press REAR•L $-/+$ (from -10 dB to $+10$ dB).
- To adjust the right rear speaker level, press REAR•R $-/+$ (from -10 dB to $+10$ dB).



5. Press TEST again to stop the test tone.



On the front panel:

You can also use the buttons on the front panel to adjust the Surround modes. However, no test tone is available when using the buttons on the front panel. So, make adjustments while listening to the sound of the source played back.

1. Press SURROUND ON/OFF to activate an appropriate Surround mode — PRO LOGIC, DOLBY DIGITAL, DTS SURROUND or MPEG SURROUND.



- Each time you press the button, the Surround mode turns on and off alternately.
- When “PRO LOGIC” is selected, the PRO LOGIC indicator lights up on the display.

2. Adjust the speaker output levels.

1) Press (BALANCE/) SURROUND ADJUST repeatedly until one of the indications appears on the display.



“CENTER LEVEL”:

To adjust the center speaker level.

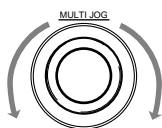
“REAR L LEVEL”:

To adjust the left rear speaker level.

“REAR R LEVEL”:

To adjust the right rear speaker level.

2) Turn MULTI JOG to adjust the selected speaker output level (from -10 dB to $+10$ dB).



3) Repeat 1) and 2) to adjust the other speaker output levels.

JVC Theater Surround adjustments

Before you start, remember...

- **Make sure that you have set the speaker information correctly (see page 14).**
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You cannot adjust the rear speaker output levels when you have set “REAR SPK” to “NONE.” See page 14.
- You cannot adjust the center speaker output level when you have set “CENTER SPK” to “NONE.” See page 14.

From the remote control:

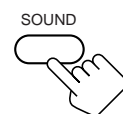
1. Press SURROUND MODE repeatedly until “THEATER” appears on the display.



- The PRO LOGIC and DSP indicators also light up on the display.

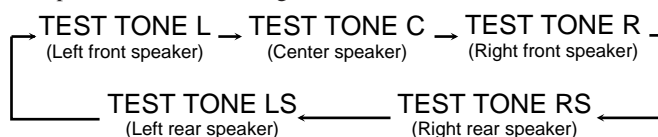
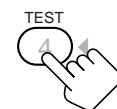
2. Press SOUND.

The 10 keys are activated for sound adjustments.



3. Press TEST to check the speaker output balance.

“TEST TONE L” starts flashing on the display, and a test tone comes out of the speakers in the following order:

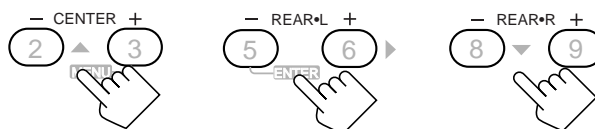


Notes:

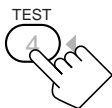
- You can adjust the speaker output levels without outputting the test tone.
- No test tone comes out of the center speaker when “CENTER SPK” is set to “NONE” (see page 14).
- No test tone comes out of the rear speakers when “REAR SPK” is set to “NONE” (see page 14).
- If the TV is turned on and the proper video input is selected on the TV, the test tone screen will appear on the TV.

4. Adjust the speaker output levels.

- To adjust the center speaker level, press CENTER $-/+$ (from -10 dB to $+10$ dB).
- To adjust the left rear speaker level, press REAR•L $-/+$ (from -10 dB to $+10$ dB).
- To adjust the right rear speaker level, press REAR•R $-/+$ (from -10 dB to $+10$ dB).

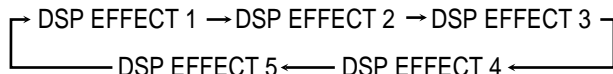


5. Press TEST again to stop the test tone.



6. Press EFFECT to select an effect level you want.

- Each time you press the button, the effect level changes as follows:



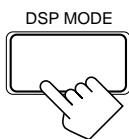
As the number increases, JVC Theater Surround becomes stronger.

On the front panel:

You can also use the buttons on the front panel to adjust the Surround modes. However, no test tone is available when using the buttons on the front panel. So, make adjustments while listening to the sound of the source played back.

1. Press DSP MODE repeatedly until “THEATER” appears on the display.

The PRO LOGIC and DSP indicators also light up on the display.



2. Adjust the speaker output levels.

1) Press (BALANCE/) SURROUND ADJUST repeatedly until one of the indications appears on the display.

“CENTER LEVEL”:

To adjust the center speaker level.

“REAR L LEVEL”:

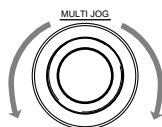
To adjust the left rear speaker level.

“REAR R LEVEL”:

To adjust the right rear speaker level.

2) Turn MULTI JOG to adjust the selected speaker output level (from -10 dB to +10 dB).

3) Repeat 1) and 2) to adjust the other speaker output levels.



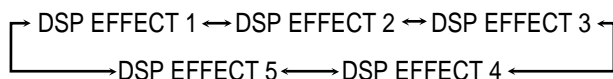
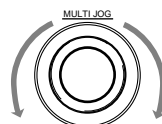
3. Adjust the effect level.

1) Press (BALANCE/) SURROUND ADJUST repeatedly until “DSP EFFECT” appears on the display.

The display changes to show the current setting.

2) Turn MULTI JOG to select the effect level.

As you turn it, the effect level changes as follows:



As the number increases, JVC Theater Surround becomes stronger.

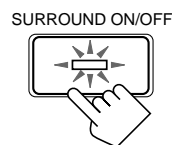
Activating the DSP Modes

You can use only one DSP mode at a time. When a DSP mode is activated, another DSP mode is canceled if in use.

For Dolby Pro Logic, Dolby Digital, DTS Digital Surround and MPEG Multichannel

1. Press SURROUND ON/OFF so that the lamp on the front panel button lights up.

- Each time you press the button, the Dolby/DTS/MPEG Surround turns on and off alternately.



On the front panel



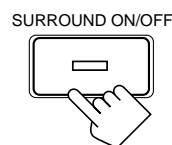
On the remote control

2. Select and play a sound source.

- To enjoy Dolby Pro Logic, play back a software encoded with Dolby Surround and labeled with mark.
- To enjoy Dolby Digital, play back a software encoded with Dolby Digital and labeled with mark.
- To enjoy DTS Digital Surround, play back a software encoded with DTS Digital Surround and labeled with mark.
- To enjoy MPEG Multichannel, play back a software encoded with MPEG Multichannel and labeled with mark.

To cancel the Dolby/DTS/MPEG Surround mode

Press SURROUND ON/OFF again so that the lamp on the front panel button goes off. (“SURROUND OFF” appears on the display.)



On the front panel



On the remote control

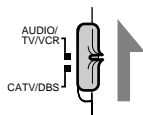
Using the DVD MULTI Playback Mode

This receiver provides the DVD MULTI playback mode for reproducing the analog discrete output mode of the DVD player. Before playing back a DVD, refer also to the manual supplied with the DVD player.

IMPORTANT:

When using the remote control, check to see if its remote control mode selector is set to the correct position:

To operate this receiver, set it to "AUDIO/TV/VCR".



Activating the DVD MULTI Playback Mode

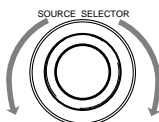
You can adjust the DVD MULTI playback mode while playing back a DVD using the analog discrete output mode on the DVD player. Once you have made adjustments, the receiver memorizes the adjustments until you change them. You also need to set the DVD player to the analog discrete output mode.

Before you start, remember...

- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel:

1. Turn SOURCE SELECTOR until "DVD MULTI" appears on the display.



Note:

When you select "DVD MULTI" as the source to play, the DSP mode is canceled temporarily, and the SURROUND ON/OFF and DSP MODE buttons do not work.

2. Select the analog discrete output mode on the DVD player, and start playing a DVD.

- Refer to the manual supplied with the DVD player.

If you need to make any adjustment, go to the following steps.

3. Adjust the speaker output levels.

- 1) Press (BALANCE/) SURROUND ADJUST repeatedly until one of the indications appears on the display.

"CENTER LEVEL":

To adjust the center speaker level.

"REAR L LEVEL":

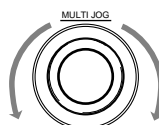
To adjust the left rear speaker level.

"REAR R LEVEL":

To adjust the right rear speaker level.

- 2) Turn MULTI JOG to adjust the selected speaker output level (from -10 dB to +10 dB).

- 3) Repeat 1) and 2) to adjust the other speaker output levels.



From the remote control:

1. Press DVD MULTI so that "DVD MULTI" appears on the display.



Note:

When you select "DVD MULTI" as the source to play, the DSP mode is canceled temporarily, and the SURROUND ON/OFF and SURROUND MODE buttons do not work.

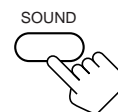
2. Select the analog discrete output mode on the DVD player, and start playing a DVD.

- Refer to the manual supplied with the DVD player.

If you need to make any adjustment, go to the following steps.

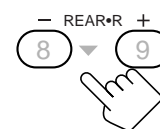
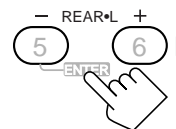
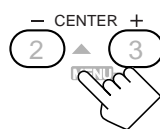
3. Press SOUND.

The 10 keys are activated for adjusting the sound.



4. Adjust the speaker output levels.

- To adjust the center speaker level, press CENTER +/- (from -10 dB to +10 dB).
- To adjust the left rear speaker level, press REAR•L +/- (from -10 dB to +10 dB).
- To adjust the right rear speaker level, press REAR•R +/- (from -10 dB to +10 dB).



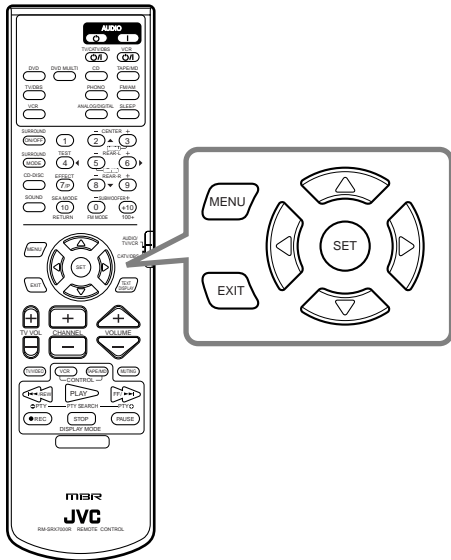
Using the On-Screen Menus

You can use the Menus on the TV screen to control the receiver.

To use this function, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 7), and set the TV's input mode to the proper position to which the receiver is connected.

- When the TV's input mode is incorrect; for example, a different video input or TV tuner mode is selected, you cannot show the Menus on the TV screen.

On-Screen Operation buttons (on the remote control)



Selecting Different Sources for Picture and Sound (Also see page 11)

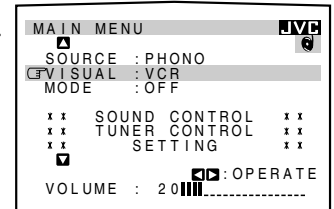
1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move to "VISUAL."

3. Press \triangleleft / \triangleright to select a different video source.



4. When you finish, press EXIT.

The menu disappears from the TV.

Activating the DSP Modes (Also see page 31)

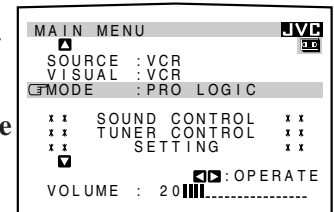
1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move to "MODE."

3. Press \triangleleft / \triangleright to select the DSP mode you want to use.



4. When you finish, press EXIT.

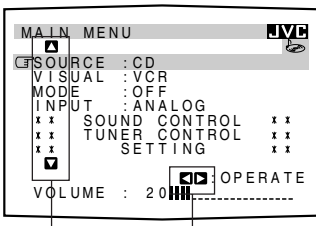
The menu disappears from the TV.

Selecting the Source to Play (Also see page 10)

1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.



Shows the buttons you can use on the current menu. In this case, use Δ / ∇ to move up and down, and \triangleleft / \triangleright to select, adjust or set the item.

Notes:

- "INPUT" appears only when the digital input (DIGITAL IN) terminal setting has been correctly done for the digital source currently selected. (See page 16.)
- If your TV is not of the PAL-or multi-color system, the TV screen will be distorted.
- The on-screen display will disappear if no operation is done for about 1 minute.

2. Press Δ / ∇ to move to "SOURCE."

3. Press \triangleleft / \triangleright to select the source.

4. When you finish, press EXIT.

The menu disappears from the TV.

Selecting the Analog or Digital Input Mode (Also see page 16)

This selection is only possible when the digital input (DIGITAL IN) terminal setting has been correctly done for the digital source currently selected.

1. Press MENU.

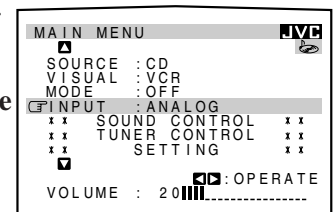
The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move to "INPUT."

3. Press \triangleleft / \triangleright to select the digital or analog input you want.

For details, see page 16.



4. When you finish, press EXIT.

The menu disappears from the TV.

■ Adjusting the Front Speaker Output Balance

(Also see page 13)

1. Press MENU.

The MAIN MENU appears on the TV.

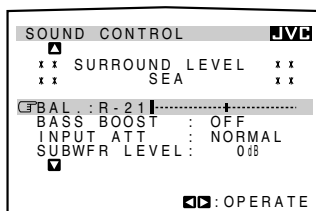
- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move \leftarrow to "SOUND CONTROL," then press \triangleleft / \triangleright .

The SOUND CONTROL menu appears.

3. Press Δ / ∇ to move \leftarrow to "BAL." (Balance).

4. Press \triangleleft / \triangleright to adjust the balance.



5. When you finish, press EXIT repeatedly until the menu disappears from the TV.

■ Reinforcing the Bass

(Also see page 12)

1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

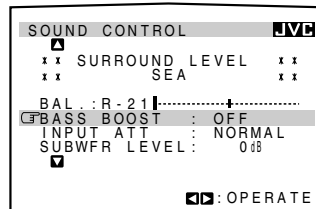
2. Press Δ / ∇ to move \leftarrow to "SOUND CONTROL," then press \triangleleft / \triangleright .

The SOUND CONTROL menu appears.

3. Press Δ / ∇ to move \leftarrow to "BASS BOOST."

4. Press \triangleleft / \triangleright to turn the bass boost function "ON" or "OFF."

5. When you finish, press EXIT repeatedly until the menu disappears from the TV.



■ Attenuating the Input Signal

(Also see page 12)

1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

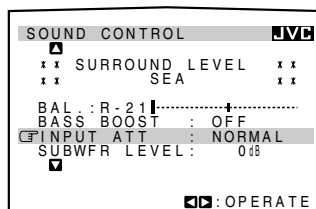
2. Press Δ / ∇ to move \leftarrow to "SOUND CONTROL," then press \triangleleft / \triangleright .

The SOUND CONTROL menu appears.

3. Press Δ / ∇ to move \leftarrow to "INPUT ATT."

4. Press \triangleleft / \triangleright to turn the Input Attenuator mode "ATT ON" or "NORMAL."

5. When you finish, press EXIT repeatedly until the menu disappears from the TV.



■ Adjusting the Subwoofer Output Level

(Also see page 12)

1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

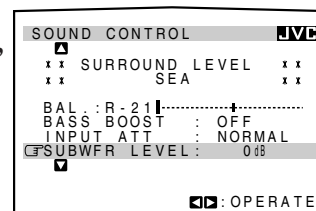
2. Press Δ / ∇ to move \leftarrow to "SOUND CONTROL," then press \triangleleft / \triangleright .

The SOUND CONTROL menu appears.

3. Press Δ / ∇ to move \leftarrow to "SUBWFR LEVEL."

4. Press \triangleleft / \triangleright to adjust the subwoofer output level.

5. When you finish, press EXIT repeatedly until the menu disappears from the TV.



■ Adjusting the DSP Modes

(Also see pages 28 – 31)

1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move \leftarrow to "MODE."

3. Press \triangleleft / \triangleright to select the DSP mode you want to adjust.

- In this example, "THEATER" is selected.

4. Press Δ / ∇ to move \leftarrow to "SOUND CONTROL," then press \triangleleft / \triangleright .

The SOUND CONTROL menu appears.

5. Press Δ / ∇ to move \leftarrow to "SURROUND LEVEL," then press \triangleleft / \triangleright .

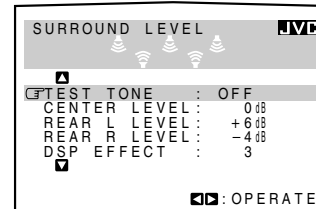
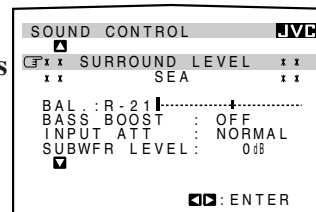
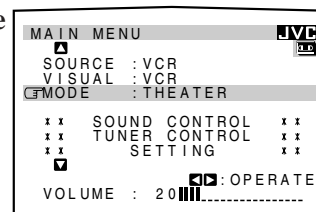
The SURROUND LEVEL menu appears.

6. Press Δ / ∇ to move \leftarrow to the item you want to set or adjust, then press \triangleleft / \triangleright .

On these adjustment menus, you can do the following:

For 3D-PHONIC (3D ACTION, 3D THEATER):

"DSP EFFECT": Select the effect level.



For DAP (LIVE CLUB, DANCE CLUB, HALL, PAVILION):

- “REAR L LEVEL”: Adjust the left rear speaker output level.*
- “REAR R LEVEL”: Adjust the right rear speaker output level.*
- “DSP EFFECT”: Select the effect level.

For Dolby Pro Logic:

- “TEST TONE”: Output a test tone.
- “CENTER LEVEL”: Adjust the center speaker output level.**
- “REAR L LEVEL”: Adjust the left rear speaker output level.*
- “REAR R LEVEL”: Adjust the right rear speaker output level.*

For Dolby Digital, DTS Digital Surround and MPEG Multichannel:

- “TEST TONE”: Output a test tone.
- “CENTER LEVEL”: Adjust the center speaker output level.**
- “REAR L LEVEL”: Adjust the left rear speaker output level.*
- “REAR R LEVEL”: Adjust the right rear speaker output level.*

For JVC Theater Surround:

- “TEST TONE”: Output a test tone.
- “CENTER LEVEL”: Adjust the center speaker output level.**
- “REAR L LEVEL”: Adjust the left rear speaker output level.*
- “REAR R LEVEL”: Adjust the right rear speaker output level.*
- “DSP EFFECT”: Select the effect level.

Notes:

* Not displayed when “REAR SPK” is set to “NONE” (see page 14).

**Not displayed when “CENTER SPK” is set to “NONE” (see page 14).

7. When you finish, press EXIT repeatedly until the menu disappears from the TV.**■ Activating the DVD MULTI Playback Mode (Also see page 33)****1. Press MENU.**

The MAIN MENU appears on the TV.

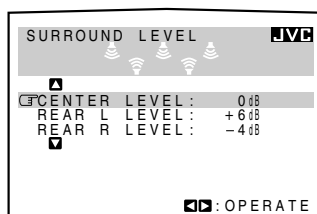
- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move \square to “SOURCE.”**3. Press \triangleleft / \triangleright to select “DVD MULTI.”****4. Press Δ / ∇ to move \square to “SOUND CONTROL,” then press \triangleleft / \triangleright .**

The SOUND CONTROL menu appears.

5. Press Δ / ∇ to move \square to “SURROUND LEVEL,” then press \triangleleft / \triangleright .

The SURROUND LEVEL menu appears.

**6. Press Δ / ∇ to move \square to the item you want to set or adjust, then press \triangleleft / \triangleright .**

On this adjustment menu, you can do the following:

- “CENTER LEVEL”: Adjust the center speaker output level.
- “REAR L LEVEL”: Adjust the left rear speaker output level.
- “REAR R LEVEL”: Adjust the right rear speaker output level.

7. When you finish, press EXIT repeatedly until the menu disappears from the TV.**■ Selecting Your Favorite SEA Mode (Also see page 24)****1. Press MENU.**

The MAIN MENU appears on the TV.

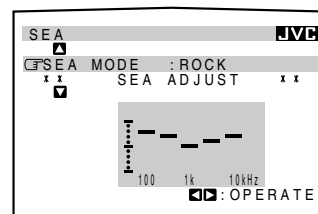
- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move \square to “SOUND CONTROL,” then press \triangleleft / \triangleright .

The SOUND CONTROL menu appears.

3. Press Δ / ∇ to move \square to “SEA,” then press \triangleleft / \triangleright .

The SEA menu appears.

**4. Press Δ / ∇ to move \square to “SEA MODE.”****5. Press \triangleleft / \triangleright to select the SEA mode you want.****6. When you finish, press EXIT repeatedly until the menu disappears from the TV.****■ Creating Your Own SEA Mode (Also see page 24)****1. Press MENU.**

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move \square to “SOUND CONTROL,” then press \triangleleft / \triangleright .

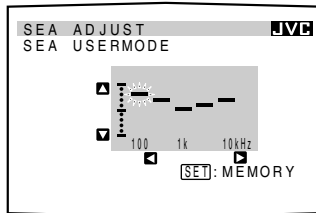
The SOUND CONTROL menu appears.

3. Press Δ / ∇ to move \square to “SEA,” then press \triangleleft / \triangleright .

The SEA menu appears.

4. Press Δ / ∇ to move \leftarrow to "SEA ADJUST."

The SEA ADJUST menu appears.



5. Press Δ / ∇ / \leftarrow / \rightarrow to adjust the SEA mode as you want.

\leftarrow / \rightarrow : Select the frequency ranges.
 Δ / ∇ : Adjust the frequency levels.

6. Press SET to store the setting into the SEA USERMODE.

- If you press EXIT, without pressing SET in this step, you can return to the SEA menu. (The adjustment you have made is active but not stored.)

7. When you finish, press EXIT repeatedly until the menu disappears from the TV.

Setting the Basic Setting Items (Also see pages 13 – 17)

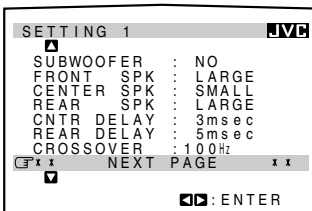
1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \leftarrow / \rightarrow buttons also displays the MAIN MENU.

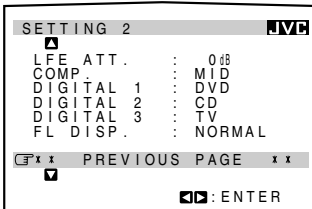
2. Press Δ / ∇ to move \leftarrow to "SETTING," then press \leftarrow / \rightarrow .

The SETTING 1 or SETTING 2 menu appears.



3. Press Δ / ∇ to move \leftarrow to the item you want to set or adjust, then press \leftarrow / \rightarrow .

- To go to the SETTING 2 menu, move \leftarrow to "NEXT PAGE," then press \leftarrow / \rightarrow .
- To go back to the SETTING 1 menu, move \leftarrow to "PREVIOUS PAGE," then press \leftarrow / \rightarrow .



On the SETTING 1 and 2 menus, you can do the following:

- "SUBWOOFER": Set the subwoofer information (see page 13).
- "FRONT SPK": Set the front speaker information (see page 14).
- "CENTER SPK": Set the center speaker information (see page 14).
- "REAR SPK": Set the rear speaker information (see page 14).
- "CNTR DELAY": Adjust the delay time of the center speaker output (see page 14).*
- "REAR DELAY": Adjust the delay time of the rear speaker output (see page 14).**
- "CROSSOVER": Set the crossover frequency (see page 15).

- "LFE ATT.": Set the low frequency effect attenuator level (see page 15).
- "COMP.": Set the dynamic range compression (see page 15).
- "DIGITAL 1/2/3": Set the digital input terminals (see page 16).
- "FL DISP.": Shows the disc text information on the display (see page 17).

Notes:

* Not adjustable when "CENTER SPK" is set to "NONE" (see page 14).

** Not adjustable when "REAR SPK" is set to "NONE" (see page 14).

4. When you finish, press EXIT repeatedly until the menu disappears from the TV.

Operating the Tuner (Also see pages 19 and 20)

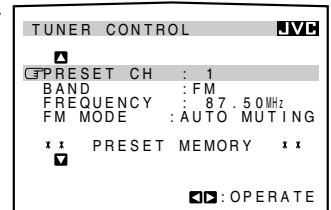
1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \leftarrow / \rightarrow buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move \leftarrow to "TUNER CONTROL," then press \leftarrow / \rightarrow .

The TUNER CONTROL menu appears.



3. Press Δ / ∇ to move \leftarrow to the item you want to set or adjust, then press \leftarrow / \rightarrow .

On the TUNER CONTROL menu, you can do the following:

- "PRESET CH": Select a preset channel station.
- "BAND": Select the band.
- "FREQUENCY": Tune in a station manually.
- "FM MODE": Select the FM reception mode.*
- "PRESET MEMORY": See "Storing the Preset Stations" on the next page.

Note:

* Not displayed when an AM (MW/LW) station is selected.

4. When you finish, press EXIT repeatedly until the menu disappears from the TV.

Storing the Preset Stations (Also see page 19)

1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

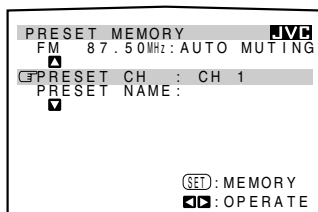
2. Press Δ / ∇ to move F to "TUNER CONTROL," then press \triangleleft / \triangleright .

The TUNER CONTROL menu appears.

3. Tune into a station on the TUNER CONTROL menu, referring to "Operating the Tuner" on the previous page.

4. Press Δ / ∇ to move F to "PRESET MEMORY," then press \triangleleft / \triangleright .

The PRESET MEMORY menu appears.



5. Press \triangleleft / \triangleright to select a preset station number you want.

6. Press SET to store the setting.

7. When you finish, press EXIT repeatedly until the menu disappears from the TV.

Assigning Names to Preset Stations (Also see page 20)

1. Press MENU.

The MAIN MENU appears on the TV.

- Pressing one of the Δ / ∇ / \triangleleft / \triangleright buttons also displays the MAIN MENU.

2. Press Δ / ∇ to move F to "TUNER CONTROL," then press \triangleleft / \triangleright .

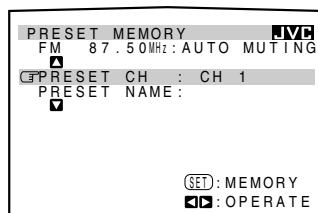
The TUNER CONTROL menu appears.

3. Press Δ / ∇ to move F to "PRESET CH."

4. Press \triangleleft / \triangleright to select a preset station.

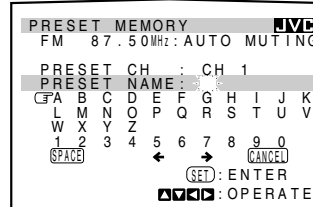
5. Press Δ / ∇ to move F to "PRESET MEMORY," then press \triangleleft / \triangleright .

The PRESET MEMORY menu appears.



6. Press Δ / ∇ to move F to "PRESET NAME," then press SET.

The character entry screen appears.



7. Press Δ / ∇ / \triangleleft / \triangleright to move F in front of a character you want.

You can also select the following:

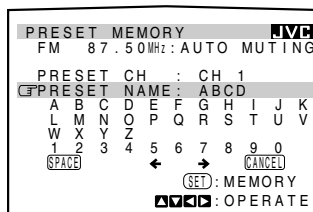
SPACE : To enter space

CANCEL : To erase the character

← → : To go back to the previous character position or go to the next character position

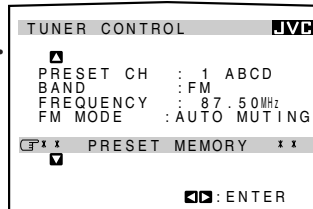
8. Press SET to enter the selected character.

9. Repeat steps 7 and 8 to enter up to four characters.



10. Press Δ / ∇ / \triangleleft / \triangleright to move F to "PRESET NAME," then press SET to store the setting.

The TUNER CONTROL menu appears again.



11. When you finish, press EXIT repeatedly until the menu disappears from the TV.

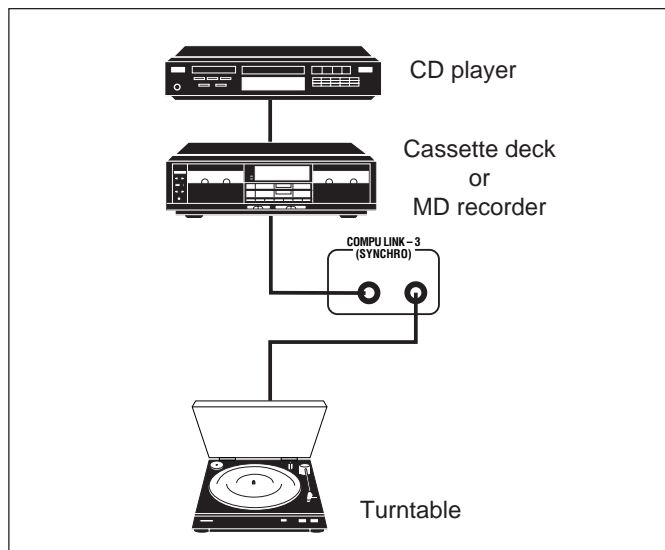
You can show the RDS information on the TV screen.
For details, see page 21.

COMPU LINK Remote Control System

The COMPU LINK remote control system allows you to operate JVC audio components through the remote sensor on the receiver.

To use this remote control system, you need to connect JVC audio components through the COMPU LINK-3 (SYNCHRO) jacks (see below) in addition to the connections using cables with RCA pin plugs (see pages 5 and 6).

- Make sure that the AC power cords of these components are unplugged before connection. Plug the AC power cords only after all connections are complete.



Notes:

- If your audio component has two COMPU LINK-3 (SYNCHRO) jacks, you can use either one. If it has only one COMPU LINK-3 (SYNCHRO) jack, connect it so that it is the last item in the series of components. (For example, the turntable or CD player in the diagram above.)
- To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 13.)
- Refer also to the manuals supplied with your audio components.

This remote control system allows you to use four functions listed below.

Remote Control through the Remote Sensor on the Receiver

You can control the connected audio components through the remote sensor on the receiver using this remote control. Aim the remote control directly at the remote sensor on the receiver. For details, see pages 45 and 46.

Automatic Source Selection

When you press the play (▶) button on a connected component or on its own remote control, the receiver automatically turns on and changes the source to the component. On the other hand, if you select a new source on the receiver or on the remote control, the selected component begins playing immediately.

In both cases, the previously selected source continues playing without sound for a few seconds.

Automatic Power On/Off (Standby): only possible with the COMPU LINK-3 connection

Both the CD player and cassette deck (or MD recorder) turn on and off (standby) along with the receiver.

When you turn on the receiver, the CD player or cassette deck (or MD recorder) will turn on automatically, depending on which component has been previously selected.

When you turn off the receiver, both the CD player and cassette deck (or MD recorder) will turn off (standby).

Synchronized Recording

Synchronized recording means the cassette deck (or MD recorder) starts recording as soon as a CD or a record begins playing.

To use synchronized recording, follow these steps:

1. Put a tape in the cassette deck (or an MD in the MD recorder), and a disc in the CD player (or a record on the turntable).
2. Press the record (●) button and the pause (||) button on the cassette deck (or MD recorder) at the same time.

This puts the cassette deck (or MD recorder) into recording pause.

If you do not press the record (●) button and pause (||) button at the same time, the synchronized recording feature will not operate.

3. Press the play (▶) button on the CD player or on the turntable.

The source changes on the receiver, and as soon as play starts, the cassette deck (or MD recorder) starts recording. When the play ends, the cassette deck (or MD recorder) enters recording pause, and stops about 4 seconds later.

Notes:

- During synchronized recording, the selected source cannot be changed.
- If the power of any component is shut off during synchronized recording, the COMPU LINK remote control system may not operate properly. In this case, you must start again from the beginning.

TEXT COMPU LINK Remote Control System

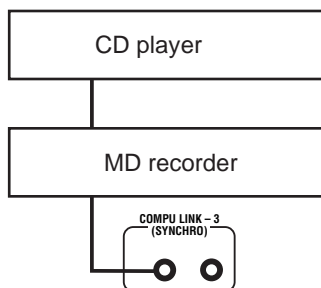
The TEXT COMPU LINK remote control system has been newly developed to deal with the disc information recorded in the CD Text* and MDs. Using these information in the discs, you can operate the CD player or MD recorder equipped with the TEXT COMPU LINK remote control system through the receiver.

CONNECTIONS:

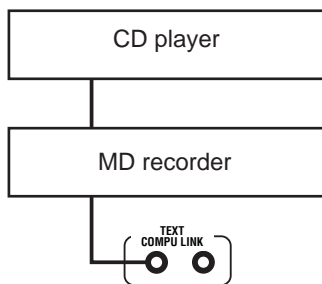
To use this remote control system, you need to connect the CD player and/or MD recorder you want to operate, following the procedures below.

1. If you have already plugged your CD player, MD recorder, and this receiver into the AC outlets, unplug their AC power cords first.
2. Connect your CD player, MD recorder, and this receiver as follows, through the COMPU LINK-3 (SYNCHRO) jacks and TEXT COMPU LINK jacks.

- 1) **COMPU LINK-3 (SYNCHRO) jacks:** Use the cables with the monaural mini-plugs (not supplied with this receiver).



- 2) **TEXT COMPU LINK jacks:** Use the cables with the stereo mini-plugs (not supplied with this receiver).



3. Connect your CD player, MD recorder and this receiver, using the cables with RCA pin plugs (see pages 5 and 6).
4. Plug the AC power cords of these components above into the AC outlets.
5. When turning on these components for the first time, turn on the connected components first, then turn on this receiver.

FUNCTIONS:

This remote control system allows you to use the functions listed below.

Displaying the Disc Information on the TV screen

Disc information such as its performer and disc title (and track titles only when a CD Text is selected) is shown on the TV screen.

Disc Search: Only for CD Player

This remote control system can allow you to search discs by the performer, disc title, and music genre. With this disc search, you can easily find the disc you want to play.

Disc Title Input:

If your CD player or MD recorder has the disc memory function, you can input the following information about the normal audio CDs or MDs on the TV screen.

- For CDs: Performer, disc title, and music genre
- For MDs: Disc title and song titles

***What is a CD Text?**

In a CD Text, some information about the disc (its disc title, performer, composer, arranger, etc.) is recorded.

Notes:

- If your audio component has two COMPU LINK-3 (SYNCHRO) jacks, you can use either one. If it has only one COMPU LINK-3 (SYNCHRO) jack, connect it so that it is the last item in the series of components. (For example, the CD player in the diagram to the left.)
- If your audio component has two TEXT COMPU LINK jacks, you can use either one. If it has only one TEXT COMPU LINK jack, connect it so that it is the last item in the series of components. (For example, the CD player in the diagram to the left.)
- "TEXT COMPULINK SOURCE NOT CONNECTED" appears on the display in the following cases:
 - When the connections explained to the left are not correctly done.
 - When you try to use the TEXT COMPU LINK function a few seconds after you turn on the connected equipment. This is not a malfunction of the units.
- Refer also to the manuals supplied with your CD player or MD recorder.

IMPORTANT:

If you turn on the receiver before turning on the other components after connecting the components, the TEXT COMPU LINK remote control system does not work correctly.

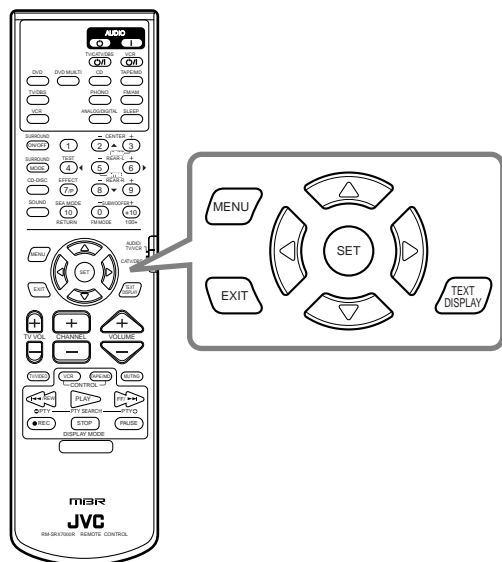
If this happens:

1. Turn off all the components including this receiver.
2. Turn on the connected components.
3. Turn on this receiver.

OPERATIONS

To use this remote control system, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 7), and set the TV's input mode to the proper position to which the receiver is connected. **Make sure you have connected the CD player or MD recorder equipped with the TEXT COMPU LINK remote control system. If not, you cannot use the following functions.**

On-Screen Operation buttons (on the remote control)



- ① Source name: CD or MD
- ② Select or , then press SET to change the disc.
- ③ Track numbers and track titles.
 - The current playing (selected) track is indicated in yellow.
 - When you move to a track number, you can change the track information by pressing / . Each time you press the button, track information alternates between its track title and its performer. (You can also start playing the track by pressing SET.)
- ④ Select this (move in front), then press SET to go to the DISC SEARCH screen (see page 42).
- ⑤ Select this (move in front), then press SET to go to the TITLE INPUT screen (see page 43).
- ⑥ This appears only when a CD Text is selected.
- ⑦ Disc information such as the disc title, performer, and music genre.

When this is selected (in front), you can change the disc information by pressing / . Each time you press the button, disc information (see "Note on ⑦") changes.
- ⑧ Select or , then press SET to change the track.
- ⑨ Usable buttons and their functions for the current selection.

Indication here will be changed according to what is currently selected (in front) on the screen. See "Note on ⑨."

Note on ⑦:

The following information will appear on the display:

- For CD Texts — Disc title, Performer, Genre, Song writer, Composer, Arranger, Message
Only recorded information will be shown. If there is no data, "NO DATA" will appear.
- For MDs — Disc title
If there is no data, "NO DATA" will appear.

Note on ⑨:

For example, the SET button will be used to start play (PLAY), to go to the next screen (ENTER), and to determine the selection (ENTER).

To exit from the Disc information screen:

Press EXIT.

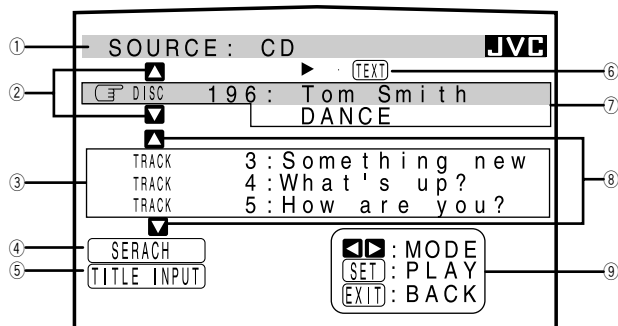
Notes:

- The on-screen display will disappear in the following cases:
 - if no operation is done for about 10 minutes.
 - if you do any operation other than explained in this section.
- To control the MD recorder using the TEXT COMPU LINK remote control system, you have to change the source name shown on the display from "TAPE" to "MD." (See page 13.)
- Some special characters and marks cannot be displayed correctly.

Showing the Disc Information on the TV Screen

Press TEXT DISPLAY while "CD" or "MD" is selected as the source.

The Disc Information screen appears on the TV.



■ Searching for a Disc (Only for the CD player)

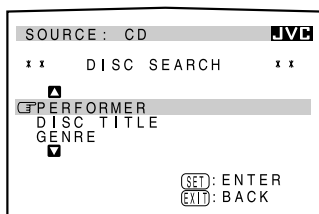
Search for a disc by its performer:

1. Press TEXT DISPLAY while “CD” is selected as the source.

The Disc Information screen appears on the TV.

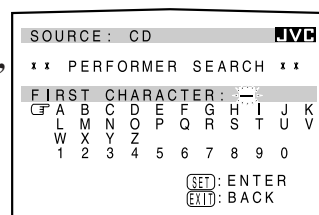
2. Press Δ / ∇ to move \leftarrow to “SEARCH,” then press SET.

The DISC SEARCH screen appears.



3. Press Δ / ∇ to move \leftarrow to “PERFORMER”, then press SET.

The PERFORMER SEARCH screen appears.



4. Press Δ / ∇ / \triangleleft / \triangleright to move \leftarrow in front of the first character of the performer you want to search, then press SET.

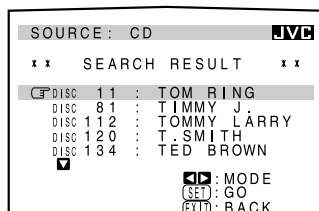
To correct the incorrect entry, press Δ / ∇ / \triangleleft / \triangleright to move \leftarrow in front of the correct character, then press SET.

Note:

Symbols such as @, # or \$ cannot be available for search.

5. Press SET again.

Disc search starts, then the SEARCH RESULT screen, showing the performers, appears.



6. On the SEARCH RESULT screen, you can do the following:

- **Changing the indication of the disc information:** Press Δ / ∇ to move \leftarrow to a searched disc, then press \triangleleft / \triangleright . Each time you press \triangleleft / \triangleright , the disc information alternates between its performer and its disc title.
- **Starting a disc play and going to the Disc Information screen (see page 41):** Press Δ / ∇ to move \leftarrow to a searched disc, then press SET.
- **Showing unseen disc information (if more than 5 discs are listed as a result of the search):** Press Δ / ∇ until they appear.
- **Going back to the PERFORMER SEARCH screen:** Press EXIT.

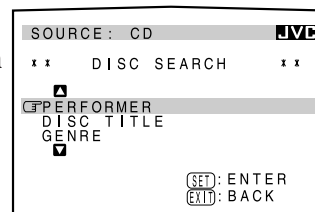
Search for a disc by its disc title:

1. Press TEXT DISPLAY while “CD” is selected as the source.

The Disc Information screen appears on the TV.

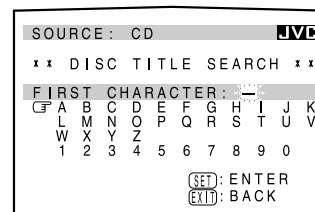
2. Press Δ / ∇ to move \leftarrow to “SEARCH,” then press SET.

The DISC SEARCH screen appears.



3. Press Δ / ∇ to move \leftarrow to “DISC TITLE,” then press SET.

The DISC TITLE SEARCH screen appears.



4. Press Δ / ∇ / \triangleleft / \triangleright to move \leftarrow in front of the first character of the disc title you want to search, then press SET.

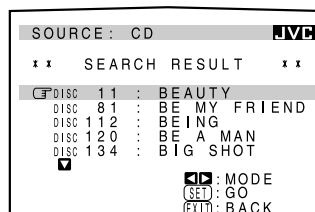
To correct the incorrect entry, press Δ / ∇ / \triangleleft / \triangleright to move \leftarrow in front of the correct character, then press SET.

Note:

Symbols such as @, # or \$ cannot be available for search.

5. Press SET again.

Disc search starts, then the SEARCH RESULT screen, showing the disc titles, appears.



6. On the SEARCH RESULT screen, you can do the following:

- **Changing the indication of the disc information:** Press Δ / ∇ to move \leftarrow to a searched disc, then press \triangleleft / \triangleright . Each time you press \triangleleft / \triangleright , the disc information alternates between its disc title and its performer.
- **Starting a disc play and going to the Disc Information screen (see page 41):** Press Δ / ∇ to move \leftarrow to a searched disc, then press SET.
- **Showing unseen disc information (if more than 5 discs are listed as a result of the search):** Press Δ / ∇ until they appear.
- **Going back to the DISC TITLE SEARCH screen:** Press EXIT.

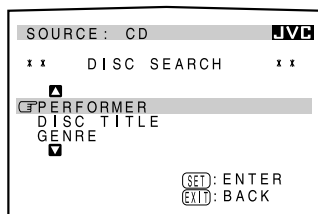
Search for a disc by its genre:

1. Press TEXT DISPLAY while "CD" is selected as the source.

The Disc Information screen appears on the TV.

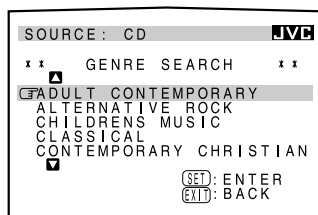
2. Press Δ / ∇ to move \leftarrow to "SEARCH," then press SET.

The DISC SEARCH screen appears.



3. Press Δ / ∇ to move \leftarrow to "GENRE", then press SET.

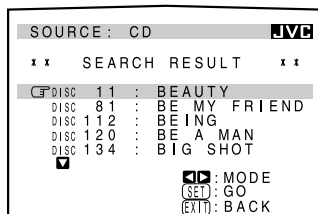
The GENRE SEARCH screen appears.



4. Press Δ / ∇ to move \leftarrow to the genre you want to search, then press SET.

To show the unseen genres, press Δ / ∇ until they appear.

Disc search starts, then the SEARCH RESULT screen, showing the disc titles, appears.



5. On the SEARCH RESULT screen, you can do the following:

- **Changing the indication of the disc information:** Press Δ / ∇ to move \leftarrow to a searched disc, then press $\triangleleft / \triangleright$. Each time you press $\triangleleft / \triangleright$, the disc information alternates between its disc title and its performer.
- **Starting a disc play and going to the Disc Information screen (see page 41):** Press Δ / ∇ to move \leftarrow to a searched disc, then press SET.
- **Showing unseen disc information (if more than 5 discs are listed as a result of the search):** Press Δ / ∇ until they appear.
- **Going back to the GENRE SEARCH screen:** Press EXIT.

Entering the Disc Information**For the CD Player with the disc memory function:**

You can use the disc memory function through this receiver.

The disc information (its performer, disc title, and music genre) of normal audio CDs will be stored into the memory built in the CD player.

For the disc memory function, refer to the manual supplied with your CD player.

- The performer, disc title, and music genre information are usually recorded in a CD Text. However, if a CD Text has no genre information recorded in the disc itself, you can input its music genre by yourself.

Note:

You can enter the TITLE INPUT screens for a CD Text and input its titles. However, you cannot store the titles you have input for a CD Text.

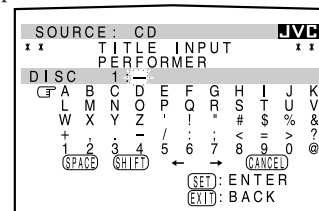
Example: Entering the following information for Disc 1
Performer: "MICHAEL"
Disc title: "MY FAVORITE"

1. Press TEXT DISPLAY while "CD" is selected as the source.

The Disc Information screen appears on the TV.

2. Press Δ / ∇ to move \leftarrow to "TITLE INPUT," then press SET.

The TITLE INPUT: PERFORMER screen appears.



3. Press $\Delta / \nabla / \triangleleft / \triangleright$ to move \leftarrow in front of a character you want, then press SET to enter the character.

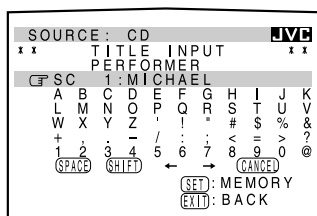
- If the current CD is a CD Text, go to step 5 without entering the performer.

To use the lower case letters, press $\Delta / \nabla / \triangleleft / \triangleright$ to move \leftarrow to [SHIFT] , then press SET.

To use the upper case letters again, press $\Delta / \nabla / \triangleleft / \triangleright$ to move \leftarrow to [SHIFT] , then press SET.

4. Repeat step 3 until you finish putting a performer name (up to 32 characters).

To insert a space, press Δ / ∇ / $\triangleleft / \triangleright$ to move C to SPACE , then press SET.

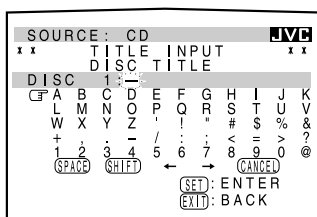


To correct an incorrect character:

- 1) Press Δ / ∇ / $\triangleleft / \triangleright$ to move C to \leftarrow or \rightarrow , then press SET until the incorrect character is selected.
- 2) Press Δ / ∇ / $\triangleleft / \triangleright$ to move C to CANCEL , then press SET to erase the character.
- 3) Press Δ / ∇ / $\triangleleft / \triangleright$ to move C in front of the correct character, then press SET to enter the correct character.

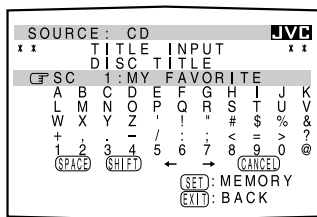
5. Press Δ / ∇ / $\triangleleft / \triangleright$ to move C to "DISC 1: MICHAEL (in this example)," then press SET.

The TITLE INPUT: DISC TITLE screen appears.



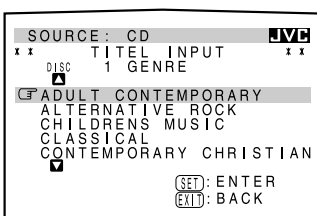
6. Enter the disc title, referring to steps 3 and 4.

- If the current CD is a CD Text, go to the next step without entering the disc title.



7. Press Δ / ∇ / $\triangleleft / \triangleright$ to move C to "DISC 1: MY FAVORITE (in this example)," then press SET.

The TITLE INPUT: DISC 1 GENRE screen appears.



8. Press Δ / ∇ to move C to the genre you want, then press SET.

The Disc Information screen appears again.

To show the unseen genres, press Δ / ∇ until they appear.

For the MD recorder:

You can write the disc information (disc title and song titles) into the disc. You can only write the song title for the song currently selected.

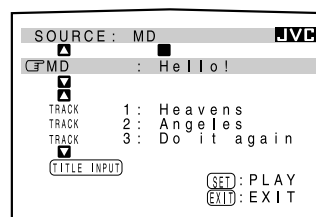
- If you have the CD-MD combination deck, you can also enter the disc information (its performer, disc title, and its music genre) of normal audio CDs into the memory built in the CD-MD combination deck. (To do this, follow the procedure of "For the CD Player with the disc memory function" on the page 43.)
- If you change the disc or song title with more than 32 characters, the characters following the 32nd will be erased from the title.

1. Press TEXT DISPLAY while "MD" is selected as the source.

The Disc Information screen appears on the TV.

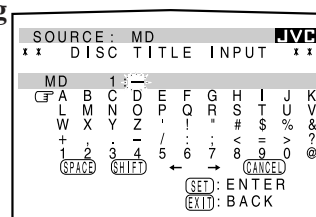
2. Press Δ / ∇ to move C to "TITLE INPUT," then press SET.

The DISC TITLE INPUT screen appears.



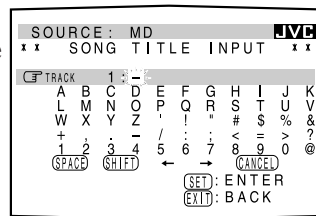
3. Enter the title, referring to steps 3 and 4 of "For the CD Player with the disc memory function" on page 43.

- You can enter up to 32 characters for the disc title.



4. Press Δ / ∇ / $\triangleleft / \triangleright$ to move C to the disc title you have just entered, then press SET.

The disc title is stored into the memory, and the SONG TITLE INPUT screen for the currently selected song appears.



- You can enter a song title for the song currently selected (indicated in yellow on the TV screen).

5. Enter the song title, referring to steps 3 and 4 of "For the CD Player with the disc memory function" on page 43.

- You can enter up to 32 characters for the song title.

6. Press Δ / ∇ / $\triangleleft / \triangleright$ to move C to the song title you have just entered, then press SET.

The song title is stored into the memory, and the Disc Information screen appears again.

Operating JVC's Audio/Video Components

You can operate JVC's audio and video components with this receiver's remote control, since control signals for JVC components are preset in the remote control.

Operating Audio Components

IMPORTANT:

To operate JVC's audio components using this remote control:

- You need to connect JVC audio components through the COMPU LINK-3 (SYNCHRO) jacks (see page 39) in addition to the connections using cables with RCA pin plugs (see pages 5 and 6).
- Aim the remote control directly at the remote sensor on the receiver.
- If you use the buttons on the front panel or the menu function to choose a source, the remote control will not operate that source. To operate a source with the remote control, the source must be selected using source selecting buttons on the remote control.
- To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 13.)
- Refer also to the manuals supplied with your components.

Tuner

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

FM/AM: Alternates between FM and AM (MW/LW).

After pressing FM/AM (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations:

- 1 – 10, +10: Selects a preset channel number directly.
For channel number 5, press 5.
For channel number 15, press +10, then 5.
For channel number 20, press +10, then 10.
- FM MODE: Changes the FM reception mode.
- PTY SEARCH: Searches for a program by PTY codes.
- PTY – / +: Selects the PTY codes.
- DISPLAY MODE: Shows the RDS signals.

Sound control section (Amplifier)

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

- SURROUND ON/OFF: Turns on or off the Surround modes — Dolby Pro Logic, Dolby Digital, DTS Digital Surround and MPEG Multichannel.
- SURROUND MODE: Selects the DSP modes.

After pressing SOUND (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations:

- SEA MODE: Changes the SEA modes.
- SUBWOOFER – / +: Adjusts the subwoofer output level.
- CENTER – / +: Adjusts the center speaker output level.
- REAR•L – / +: Adjusts the left rear speaker output level.
- REAR•R – / +: Adjusts the right rear speaker output level.
- EFFECT: Selects the effect level.
- TEST: Turns on or off the test tone output.

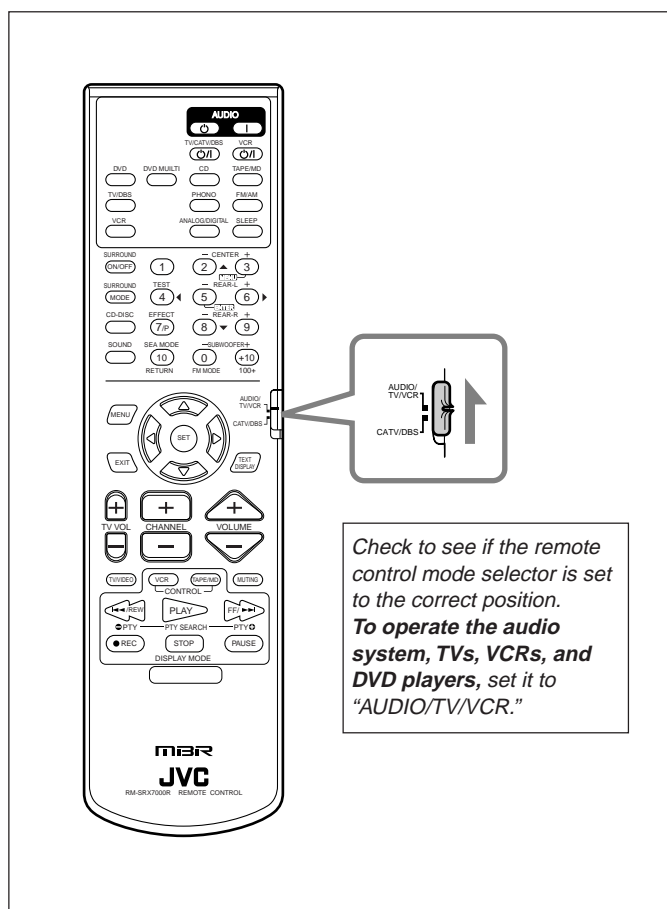
Note:

After adjusting sounds, press the corresponding source selecting button or CD-DISC to operate your target source by using the 10 keys; otherwise, the 10 keys cannot be used for operating your target source.

CD player

After pressing CD (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the CD player:

- PLAY: Starts playing.
- ◀◀: Returns to the beginning of the current (or previous) track.
- ▶▶: Skips to the beginning of the next track.
- STOP: Stops playing.
- PAUSE: Pauses playing. To release it, press PLAY.
- 1 – 10, +10: Selects a track number directly.
For track number 5, press 5.
For track number 15, press +10, then 5.
For track number 20, press +10, then 10.
For track number 30, press +10, +10, then 10.



CD player-changer

After pressing CD-DISC (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a CD player-changer:

PLAY:	Starts playing.
◀◀:	Returns to the beginning of the current (or previous) track.
▶▶:	Skips to the beginning of the next track.
STOP:	Stops playing.
PAUSE:	Pauses playing. To release it, press PLAY.
1 – 6, 7/P:	Selects the number of a disc installed in a CD player-changer.

After pressing CD (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the CD player-changer:

1 – 10, +10:	Selects a track number directly. For track number 5, press 5. For track number 15, press +10, then 5. For track number 20, press +10, then 10. For track number 30, press +10, +10, then 10.
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Turntable

After pressing PHONO (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a turntable:

PLAY:	Starts playing.
STOP:	Stops operations.

Cassette deck

After pressing TAPE/MD or TAPE/MD CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a cassette deck:

PLAY:	Starts playing.
◀◀:	Fast winds the tape from right to left.
▶▶:	Fast winds the tape from left to right.
STOP:	Stops operations.
PAUSE:	Pauses playing. To release it, press PLAY.
● REC:	Press this button with the PLAY button to start recording. Press this button with the PAUSE button to enter recording pause.

MD recorder

After pressing TAPE/MD or TAPE/MD CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the MD recorder:

PLAY:	Starts playing.
◀◀:	Returns to the beginning of the current (or previous) track.
▶▶:	Skips to the beginning of the next track.
STOP:	Stops playing.
PAUSE:	Pauses playing. To release it, press PLAY.
● REC:	Press this button with the PLAY button to start recording. Press this button with the PAUSE button to enter recording pause.

Note:

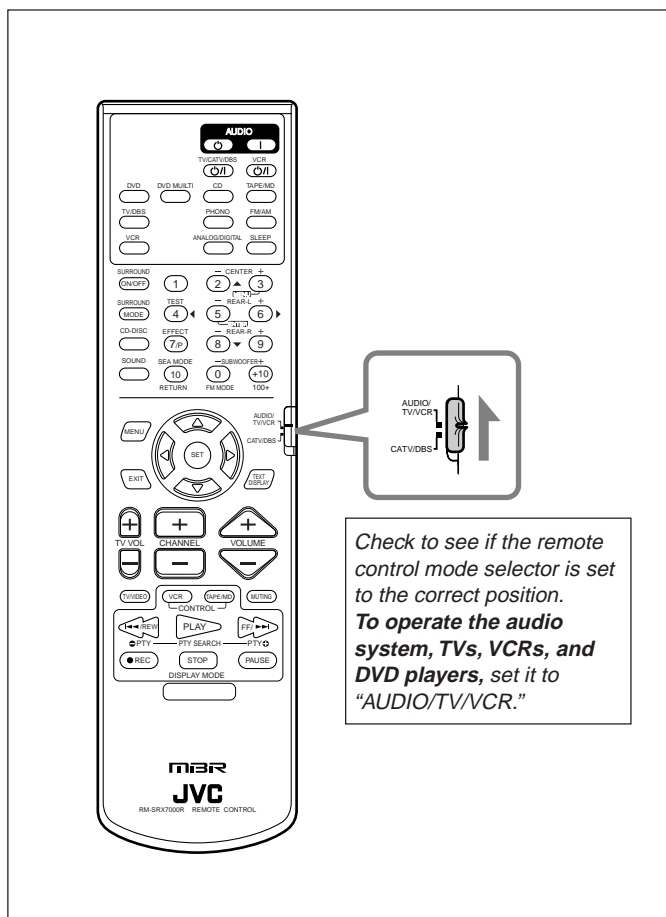
You can use either TAPE/MD button or the TAPE/MD CONTROL button to activate the buttons listed above. If you press TAPE/MD, the playing source also changes. On the other hand, if you press TAPE/MD CONTROL, the playing source does not change.

Operating Video Components

IMPORTANT:

To operate JVC's video components using this remote control:

- Aim the remote control directly at the remote sensor on the VCR, DVD player or TV, not on the receiver.
- Some JVC VCRs can accept two types of the control signals — remote code "A" and "B." Before using this remote control, make sure that the remote control code of the target VCR is set to code "A."



VCR

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

VCR \odot/I : Turns on or off the VCR.

After pressing VCR or VCR CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the VCR:

- 1 – 9, 0: Selects the TV channels on VCR.
- PLAY: Starts playing.
- ◀◀: Rewinds a tape.
- ▶▶: Fast winds a tape.
- STOP: Stops operations.
- PAUSE: Pauses playing. To release it, press PLAY.
- REC: Press this button with the PLAY button to start recording.
Press this button with the PAUSE button to enter recording pause.
- CHANNEL +/-: Changes the TV channels on the VCR.

Note:

You can use either VCR button or the VCR CONTROL button to activate the buttons listed above. If you press VCR, the playing source also changes. On the other hand, if you press VCR CONTROL, the playing source does not change.

DVD player

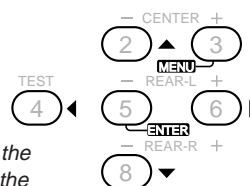
After pressing DVD or DVD MULTI (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a DVD player:

- PLAY: Starts playing.
- ◀◀: Returns to the beginning of the current (or previous) track.
- ▶▶: Skips to the beginning of the next track.
- STOP: Stops playing.
- PAUSE: Stops playing temporarily. To release it, press PLAY.

After pressing DVD or DVD MULTI, these buttons can be used for the DVD menu operations.

Note:

For detailed menu operations, refer to the instructions supplied with the discs or the DVD player.



TV

You can always perform the following operations (with the remote control mode selector set to "AUDIO/TV/VCR"):

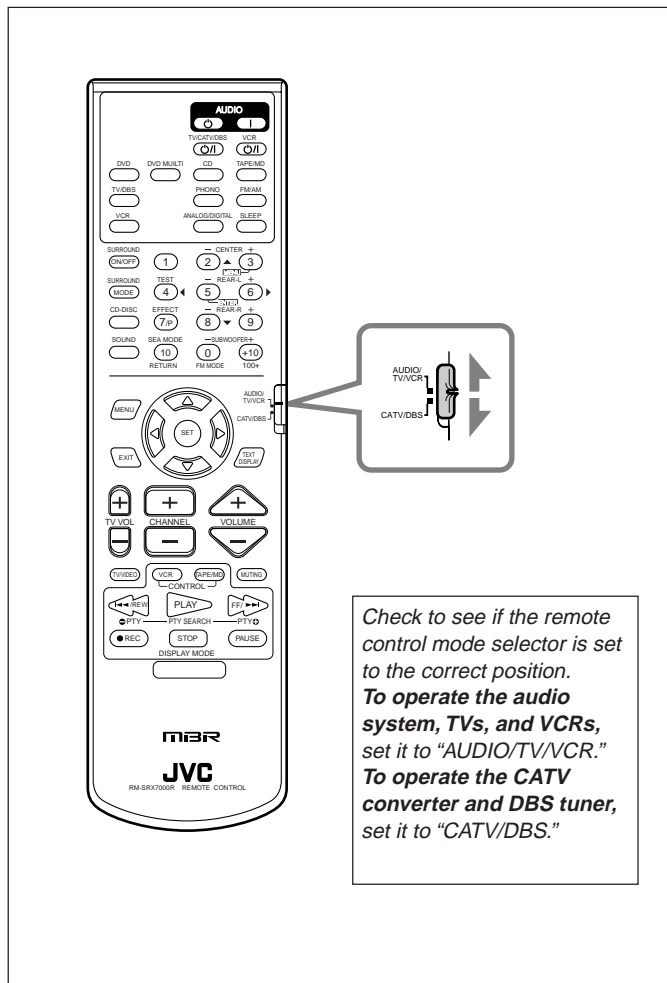
- TV/CATV/DBS \odot/I : Turns on or off the TV.
- TV VOL +/-: Adjusts the volume.
- TV/VIDEO: Sets the input mode (either TV or VIDEO).

After pressing TV/DBS (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a TV:

- CHANNEL +/-: Changes the channels.
- 1 – 9, 0, 100+: Selects the channels.
- RETURN: Alternates between the previously selected channel and the current channel.

This remote control supplied with the receiver can transmit control signals for other manufacturers' VCRs, TVs, CATV converters and DBS tuners. By changing the transmittable signals from preset ones to the other manufacturers', you can operate the other manufacturer's components using this remote control.

When operating the other manufacturers' components, refer also to the manuals supplied with them. To operate these components with the remote control, first you need to set the manufacturer's code each for VCR, TV, CATV converters and DBS tuners.



To change the transmittable signals for operating another manufacturer's TV

1. Set the remote control mode to "AUDIO/TV/VCR."
2. Press and hold TV/CATV/DBS \odot/I .
3. Press TV/DBS.
4. Enter manufacturer's code (three digits) using buttons 1 – 9, and 0.

See the list on pages 50 and 51 to find the code.

Examples: For a JVC product, press 0, 3, then 6.

For a Hitachi product, press 0, 3, then 2.

5. Release TV/CATV/DBS \odot/I .

The following buttons can be used for operating the TV (with the remote control mode selector set to "AUDIO/TV/VCR"):

- TV/CATV/DBS \odot/I : Turns on and off the TV.
- TV VOL +/-: Adjusts the volume.
- TV/VIDEO: Sets the input mode (either TV or VIDEO).

After pressing TV/DBS (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on a TV:

- CHANNEL +/-: Changes the channels.
- 1 – 10, 0, 100+ (+10): Selects the channels. The 100+ (+10) button will function as the ENTER button if your TV requires pressing ENTER after selecting a channel number.

Note:

Refer to the manual supplied with your TV.

6. Try to operate your TV by pressing TV/CATV/DBS \odot/I .

When your TV turns on or off, you have entered the correct code.

If there are more than one code listed for your brand of TV, try each one until the correct one is entered.

To change the transmittable signals for operating a CATV converter or a DBS tuner

1. Set the remote control mode to "CATV/DBS."
2. Press and hold TV/CATV/DBS $\odot/|$.
3. Press TV/DBS.
4. Enter manufacturer's code (three digits) using buttons 1 – 9, and 0.

See the list on pages 51 and 52 to find the code.

Examples: For a British Telecom product, press 0, 0, then 3.
For a Zenith product, press 0, 0, then 0.

5. Release TV/CATV/DBS $\odot/|$.

After setting the remote control mode selector to "CATV/DBS," you can perform the following operations on the CATV convertor or on the DBS tuner:

TV/CATV/DBS $\odot/ $:	Turns on and off the CATV converter or the DBS tuner.
CHANNEL +/-:	Changes the channels.
1 – 10, 0, 100+ (+10):	Selects the channels. The 100+ (+10) button will function as the ENTER button if your equipment requires pressing ENTER after selecting a channel number.

Note:

Refer to the manual supplied with your CATV converter or DBS tuner.

6. Try to operate your CATV converter or DBS tuner by pressing TV/CATV/DBS $\odot/|$.

When your CATV converter or DBS tuner turns on or off, you have entered the correct code.

If there are more than one code listed for your brand of CATV converter or DBS tuner, try each one until the correct one is entered.

To change the transmittable signals for operating another manufacturer's VCR

1. Set the remote control mode to "AUDIO/TV/VCR."
2. Press and hold VCR $\odot/|$.
3. Press VCR.
4. Enter manufacturer's code (three digits) using buttons 1 – 9, and 0.

See the list on pages 52 and 53 to find the code.

Examples: For a JVC product, press 0, 0, then 8.
For an NEC product, press 0, 3, then 8.

5. Release VCR $\odot/|$.

The following button can be used for operating the VCR (with the remote control mode selector set to "AUDIO/TV/VCR"):

VCR $\odot/|$: Turns on and off the VCR.

After pressing VCR or VCR CONTROL (with the remote control mode selector set to "AUDIO/TV/VCR"), you can perform the following operations on the VCR:

CHANNEL +/-:	Changes the TV channels on the VCR.
1 – 10, 0, 100+ (+10):	Selects the TV channels. The 100+ (+10) button will function as the ENTER button if your VCR requires pressing ENTER after selecting a channel number.
PLAY:	Starts playback.
◀◀:	Rewinds a video tape.
▶▶:	Fast winds a video tape.
STOP:	Stops operation.
PAUSE:	Pauses.
● REC:	Starts recording or enters recording pause.

Notes:

- Refer to the manual supplied with your VCR.
- You can use either VCR button or the VCR CONTROL button to activate the buttons listed above. If you press VCR, the playing source also changes. On the other hand, if you press VCR CONTROL, the playing source does not change.

6. Try to operate your VCR by pressing VCR $\odot/|$.

When your VCR turns on or off, you have entered the correct code.

If there are more than one code listed for your brand of VCR, try each one until the correct one is entered.

Manufacturers' codes for TV

Acura	009	Expert	206
Admiral	087, 163, 213	Ferguson	005, 037, 073, 109, 190, 238, 287, 335, 343
Adyson	032, 217	Fidelity	216, 361, 372
AGB	516	Finlandia	208, 346, 359
Akai	208, 361, 516	Finlux	037, 070, 072, 087, 105, 179, 346, 411, 516
Akura	218, 264, 369	Firstline	009, 216, 217, 247, 294, 321
Alba	009, 036, 037, 211, 218, 235, 371	Fisher	208, 217, 303, 370
Allorgan	294	Flint	455
Amplivision	217, 400	Formenti	037, 087, 213, 320
Amstrad	009, 037, 171, 177, 354, 362, 369, 371, 412, 433, 516	Frontech	163, 247, 264, 431, 448
Anitech	009, 068, 076	Fujitsu	072, 206
Arcam	216, 217	Funai	179, 264, 294, 303
ASA	087	GEC	037, 043, 072, 205, 217, 516, 557
Asberg	076	Geloso	009, 213
Asuka	218	Genexxa	163, 218
Atlantic	206	Goldstar	037, 109, 217, 290
Audiosonic	037, 109	Goodmans	036, 037, 072, 179, 217, 235, 257, 317, 343, 371, 374, 499
Autovox	076, 087, 206, 336	Gorenje	370
Baird	343, 557	GPM	218
Bang & Olufsen	087	Graetz	163, 361, 557
Barco	380	Granada	037, 072, 146, 201, 208, 217, 339, 359, 516
Basic Line	009, 218	Grandin	282
Baur	010, 037, 349, 361, 505, 512, 535, 554	Grundig	070, 191, 195, 205, 487, 535, 554
Beko	370, 486	Hanseatic	037, 320, 361, 556
Beon	037	Hantarex	516
Binatone	217	Harwood	257
Blaupunkt	191, 195, 200, 213, 327, 328, 535, 554	HCM	009, 282, 412
Blue Sky	218	Hinari	009, 036, 037, 179, 218
Blue Star	282	Hisawa	282, 400, 455
Bondstec	247	Hitachi	032, 036, 043, 044, 105, 109, 163, 196, 198, 217, 225, 227, 306, 349, 481, 548, 557
Boots	217	Huanyu	216, 374
BPL	282	Hypson	037, 264, 282
Brandt	109, 196, 198, 205, 333, 335	ICE	217, 264, 371
Brionvega	087, 362	ICeS	218
Britannia	216	Imperial	074, 076, 084, 247, 370, 418
Bruns	087	Indiana	037
BSR	294	Ingelen	163, 557
BTC	218	Inno Hit	072, 516
Bush	009, 036, 037, 211, 218, 282, 294, 349, 355, 371, 374, 519	Interbuy	068
Carrefour	036	Interfunk	037, 163, 247, 361, 512, 557
Cascade	009	Intervision	037, 068, 102, 217, 264
Cathay	037	Isukai	218
Centurion	037	ITS	371
Century	087, 213	ITT	163, 361, 548, 557
CGE	074, 076, 084, 247, 306	JVC	036, 053, 094, 190, 192, 371, 800
Cimline	009	Kaisui	009, 216, 217, 218, 282
Clarivox	037	Kapsch	163, 206, 557
Clatronic	076, 247, 370	Kathrein	556
Clayton	385	Kendo	037, 235, 362
Condor	320, 370	Kingsley	216
Contec	009, 036, 216	Kneissel	259, 435
Continental Edison	196, 198, 205, 333, 399	Korpel	037
Crosley	074, 076, 084, 087, 213	Korting	087
Crown	009, 037, 076, 370, 418, 579	Koyoda	009
Crystal	431	Leyco	037, 072, 264, 294
CS Electronics	216	Liesenk & Tter	037
CTC	247	Lloytron	032
Cybertron	218	Loewe	075, 087, 512
Daewoo	009, 037, 374, 499	Luma	206
Dainichi	215, 218	Luxor	349, 361
Dansai	037	M Electronic	009, 037, 068, 105, 109, 163, 217, 287, 346, 374, 480
Dayton	009	Magnadyne	087, 102, 247, 516
De Graaf	208, 227, 548	Magnafon	076, 102, 213, 516
Decca	037, 072, 249, 516	Manesth	217, 235, 264, 320
Dixi	009, 037	Marantz	037, 556
Dual	336, 352, 519	Marelli	087
Dual Tec	217	Mark	037
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McMichael	043	SEG	036, 076, 217, 264
Mediator	012, 037	SEI	087, 102, 177, 213, 294
Memorex	009	Sei-Sinudyne	010, 516
Memphis	337	Seleco	163, 206, 259, 362, 411
Metz	087, 213, 367, 535	Sentra	035
Minerva	070, 487, 535, 554	Sharp	036, 093
Minoka	369, 412	Shorai	294
Mitsubishi	036, 087, 108, 150, 201, 354, 512, 535	Siarem	087, 102, 213, 516
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Pausa	009	Telefunken	005, 074, 084, 101, 109, 213, 262, 306, 335, 343, 471, 498, 625
Perdio	320	Telemeister	320
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Philips	012, 037, 043, 087, 323, 374, 554, 556	Tensai	218, 294, 317, 320
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Samsung	009, 037, 090, 217, 264, 290, 370, 488, 556	Aldes	288
Sandra	216	Amstrad	080, 252, 345, 461, 501, 509, 689
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Jerrold	003, 276
MNet	443
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Salora	382
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Zenith	000

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Aiwa	000, 307, 348, 352
Akai	041, 049, 053, 106, 281, 288, 315
Akiba	072
Akura	271
Alba	020, 072, 209, 278, 295, 315, 333, 334, 352
Ambassador	020
Amstrad	000, 278, 325, 332
Anitech	072
ASA	037, 081
Asuka	037
Baird	000, 041, 104, 107
Basic Line	020, 072, 278
Blaupunkt	003, 006, 016, 034, 154, 162, 195, 226, 227, 403
Brandt	187, 320, 321
Brandt Electronic	041
Brionvega	344
Bush	072, 209, 278, 333, 334, 352
Catron	020
CGE	000
Cimline	072
Clatronic	020
Combitech	352

Condor	020	Pathe Marconi	041
Crown	020, 072, 278	Pentax	042, 105
Cyrus	081	Perdio	000
Daewoo	020, 278	Philco	038
Dansai	072	Philips	081, 384, 403
De Graaf	042, 166	Phonola	081
Decca	000, 081	Pioneer	067, 081, 235
Denon	042	Portland	020
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Dumont	000, 081, 104, 105	Profitronic	240
Elbe	038	Proline	000
Elcotech	072	Pye	081
ESC	240, 278	Quartz	046
Ferguson	041, 084, 098, 107, 320, 321	Quelle	081, 344
Fidelity	000	Radiola	081
Finlandia	081, 104	Rex	041, 384
Finlux	000, 042, 081, 104, 105	RFT	403
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General	020	Sansui	041, 067, 271
GoldHand	072	Sanyo	046, 104
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Graetz	005, 041, 104, 240, 344	Schaub Lorenz	000, 005, 041, 104, 344
Granada	046, 081, 104	Schneider	000, 072, 081
Grandin	000, 037, 072	SEG	240, 322
Grundig	003, 006, 007, 016, 072, 081, 195, 207, 226, 347, 349, 403	SEI	004, 081
Hanseatic	037	Seleco	041
HCM	072	Sentra	020
Hinari	004, 072, 208, 240, 352	Sharp	048
Hitachi	000, 004, 041, 042, 105, 166, 235, 240	Shintom	072, 104
Hypson	072	Shorai	004
Imperial	000	Siemens	003, 006, 016, 037, 054, 081, 104, 195
Ingersol	004	Silva	037
Interfunk	081	Singer	045
ITT	005, 041, 046, 104, 106, 240, 344, 384	Sinudyne	004, 081
ITV	037, 278	Solavox	020
JVC	008, 041, 067, 084, 206, 207, 384, 486	Sonolor	046
Kaisui	072	Sontec	037
Kendo	106, 209	Sony	011, 032, 033, 034
Kenwood	041	Sunkai	348
Korpel	072	Sunstar	000
Lenco	278	Suntronic	000
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Loewe	004, 006, 037, 081	Tatung	000, 041, 081
Logik	004, 240	Tec	020
Luxor	043, 046, 048, 104, 106	Technics	162, 226
M Electronic	000	Teleavia	041
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Matsui	004, 036, 088, 208, 209, 295, 348, 352	Tensai	000, 322
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Minerva	006, 016, 195	Triumph	208
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Nesco	072	Yokan	072
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Orion	004, 036, 088, 208, 209, 295, 333, 334, 348, 352		
Osaki	000, 037, 072		
Otto Versand	081		
Palladium	006, 037, 041, 072		
Panasonic	162, 226, 227		
Pathe Cinema	036		

Manufacturers' codes listed on pages 50 to 53 are subject to change without notice. If they are changed, this remote control cannot operate the equipment.

Troubleshooting

Use this chart to help you solve daily operational problems. If there is any problem you cannot solve, contact your JVC service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The display does not light up.	The power cord is not plugged in.	Plug the power cord into an AC outlet.
No sound from speakers.	Speaker signal cables are not connected.	Check speaker wiring and reconnect if necessary.
	The SPEAKERS 1 and 2 buttons are not set correctly.	Press SPEAKERS 1 and 2 correctly.
	An incorrect source is selected.	Select the correct source.
	Muting is activated.	Press MUTING to cancel the mute.
Sound from one speaker only.	Speaker signal cables are not connected properly.	Check speaker wiring and reconnect if necessary.
	The balance is set to one extreme.	Adjust the balance properly (see page 13).
Continuous hiss or buzzing during FM reception.	Incoming signal is too weak.	Connect an outdoor FM antenna or contact your dealer.
	The station is too far away.	Select a new station.
	An incorrect antenna is used.	Check with your dealer to be sure you have the correct antenna.
	Antennas are not connected properly.	Check connections.
Occasional cracking noise during FM reception.	Ignition noise from automobiles.	Move the antenna farther from automobile traffic.
No colors on the on-screen display.	The color system of the connected TV is not PAL.	Connect PAL- or multi-color system TV.
Howling during record playing.	Your turntable is too close to speakers.	Move speakers away from the turntable.
"OVERLOAD" starts flashing on the display.	Speakers are overloaded because of high volume.	<ol style="list-style-type: none"> 1. Press STANDBY/ON /I on the front panel to turn off the receiver. 2. Stop the playback source. 3. Turn on the receiver again, and adjust the volume.
	Speakers are overloaded because of short circuit of speaker terminals.	Press STANDBY/ON  /I on the front panel, then check the speaker wiring. If "OVERLOAD" does not disappear, unplug the AC power cord, then plug it back again. If speaker wiring is not short-circuited, contact your dealer.
Remote control does not work.	The remote control mode selector is not set correctly.	Set the selector correctly either to "AUDIO/TV/VCR" or to "CATV/DBS."
	There is an obstruction in front of the remote sensor on the receiver.	Remove the obstruction.
	Batteries are weak.	Replace batteries.

Specifications

Amplifier

Output Power

At Stereo operation:

Front channels: 100 W per channel, min. RMS, both channels driven into 4 Ω , at 1 kHz with no more than 0.9% total harmonic distortion. (IEC268-3/DIN)

At Surround operation:

Front channels: 100 W per channel, min. RMS, driven into 4 Ω at 1 kHz, with no more than 0.8% total harmonic distortion.

Center channel: 100 W, min. RMS, driven into 4 Ω at 1 kHz, with no more than 0.8% total harmonic distortion.

Rear channels: 100 W per channel, min. RMS, driven into 4 Ω at 1 kHz, with no more than 0.8% total harmonic distortion.

Total Harmonic Distortion (8 Ω): 0.02% at 50 W output (at 1 kHz)

Audio

Audio Input Sensitivity/Impedance (1 kHz): PHONO (MM): 2.5 mV/47 k Ω
CD, TAPE/MD, TV SOUND/DBS, VCR, DVD: 200 mV/47 k Ω

Audio Input (DIGITAL IN)* : Coaxial: DIGITAL 1 (DVD): 0.5 V(p-p)/75 Ω
Optical: DIGITAL 2 (CD), DIGITAL 3 (TV): -21 dBm to -15 dBm (660 nm \pm 30 nm)

* Corresponding to Linear PCM, Dolby Digital, DTS Digital Surround and MPEG Multichannel (with sampling frequency — 32 kHz, 44.1 kHz, 48 kHz).

Audio Output Level: TAPE/MD, VCR: 200 mV

Digital output: Optical: DIGITAL OUTPUT
Signal wave length: 660 nm
Output level: -21 dBm to -15 dBm

Signal-to-Noise Ratio ('66 IHF/DIN): PHONO: 70 dB/66 dB (at REC OUT)
CD, TAPE/MD, TV SOUND/DBS, VCR, DVD: 87 dB/67 dB

Frequency Response (8 Ω): PHONO: 20 Hz to 20 kHz (\pm 1 dB)
CD, TAPE/MD, TV SOUND/DBS, VCR, DVD: 20 Hz to 20 kHz (\pm 1 dB)

RIAA Phono Equalization: \pm 1.0 dB (20 Hz to 20 kHz)

Bass Boost: +6 dB \pm 1.0 dB at 100 Hz (Volume Control at -30 dB)

SEA: Center frequencies: 100 Hz, 1 kHz, 10 kHz
Control range: \pm 10 dB \pm 2 dB

Video

Video Input Sensitivity/Impedance:
Composite video: TV SOUND/DBS, VCR, DVD: 1 V(p-p)/75 Ω
S-video: TV SOUND/DBS, VCR, DVD: (Y: luminance): 1 V(p-p)/75 Ω
(C: chrominance, burst): 0.286 V(p-p)/75 Ω

Video Output Level:
Composite video: VCR, MONITOR OUT: 1 V(p-p)/75 Ω
S-video: VCR, MONITOR OUT: (Y: luminance): 1 V(p-p)/75 Ω
(C: chrominance, burst): 0.286 V(p-p)/75 Ω

Synchronization: Negative

Signal-to-Noise Ratio: 45 dB

On-Screen Color System: PAL

FM tuner (IHF)

Tuning Range:	87.50 MHz to 108.00 MHz	
Usable Sensitivity:	Monaural:	17.0 dBf (1.95 μ V/75 Ω)
50 dB Quieting Sensitivity:	Monaural:	21.3 dBf (3.2 μ V/75 Ω)
	Stereo:	41.3 dBf (31.5 μ V/75 Ω)
Signal-to-Noise Ratio (IHF-A weighted):	Monaural:	78 dB at 85 dBf
	Stereo:	73 dB at 85 dBf
Total Harmonic Distortion:	Monaural:	0.4% at 1 kHz
	Stereo:	0.6% at 1 kHz
Stereo Separation at REC OUT:	35 dB at 1 kHz	
Alternate Channel Selectivity:	60 dB: (\pm 400 kHz)	
Frequency Response:	30 Hz to 15 kHz: (+0.5 dB, -3 dB)	

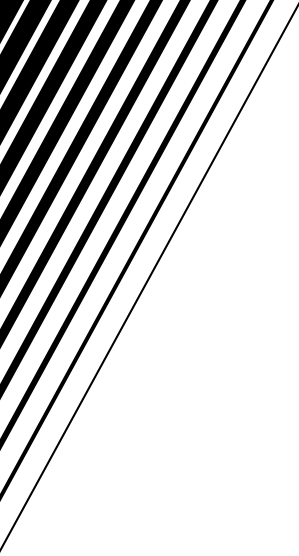
AM (MW/LW) tuner

Tuning Range:	MW:	522 kHz to 1 629 kHz
	LW:	144 kHz to 288 kHz
Usable Sensitivity:	Loop antenna:	400 μ V/m
Signal-to-Noise Ratio:	50 dB (100 mV/m)	

General

Power Requirements:	AC 230 V \sim , 50 Hz
Power Consumption:	210 W (at operation)
	2 W (in standby mode)
Dimensions (W x H x D):	435 mm x 157 mm x 412.5 mm (17 ³ / ₁₆ in. x 6 ³ / ₁₆ in. x 16 ¹ / ₄ in.)
Mass:	11.3 kg (25.0 lbs)

Designs & specifications are subject to change without notice.



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