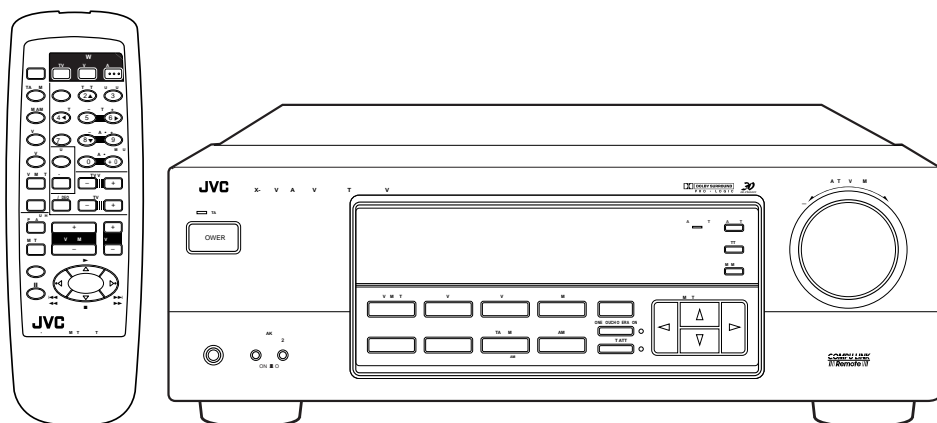


JVC



AUDIO/VIDEO CONTROL RECEIVER

RX-5000VBK



COMPU LINK
Remote

3D
3D-PHONIC

DOLBY SURROUND
PRO • LOGIC

INSTRUCTIONS

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. _____

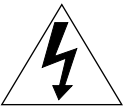
Serial No. _____

LVT0384-001A
[J]

Warnings, Cautions and Others

	CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK. DO NOT REMOVE COVER (OR BACK) NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		

Caution — POWER switch!
Disconnect the mains plug to shut the power off completely. The POWER switch in any position does not disconnect the mains line. The power can be remote controlled.



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



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

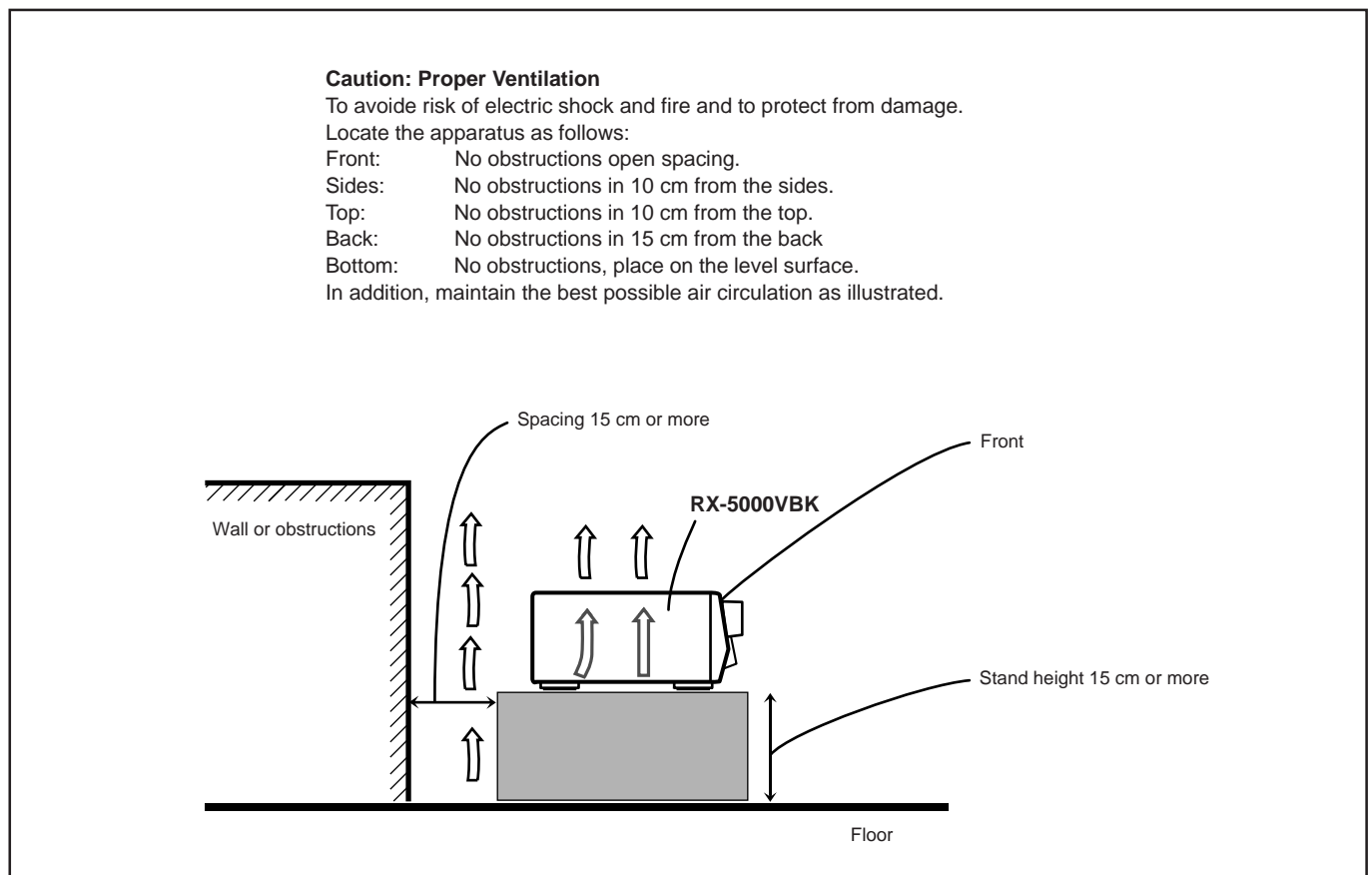
WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

For U.S.A.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
Reorient or relocate the receiving antenna.
Increase the separation between the equipment and receiver.
Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
Consult the dealer or an experienced radio/TV technician for help.

CAUTION

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

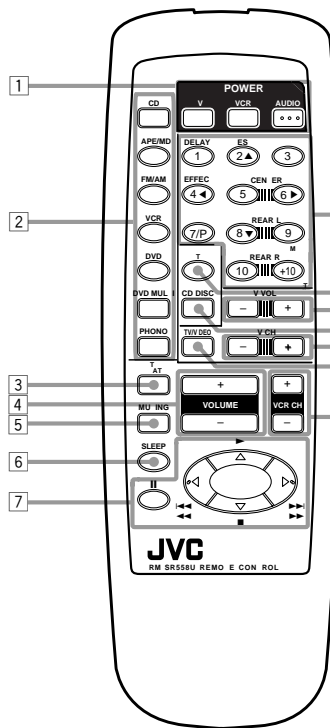
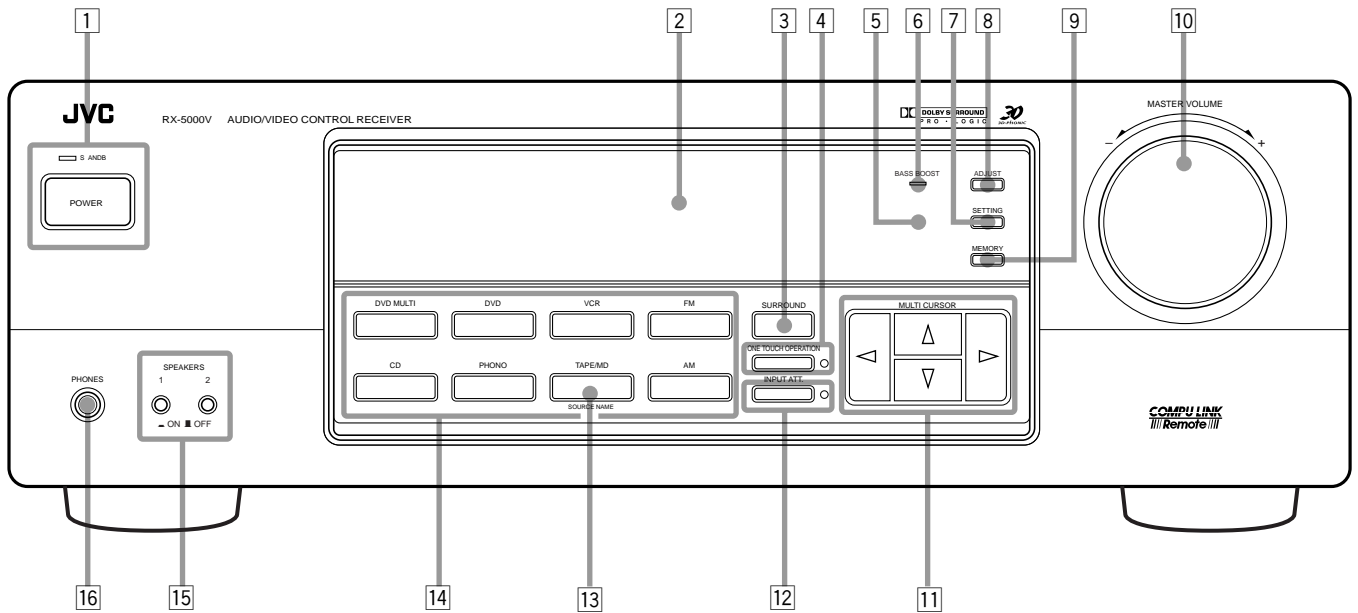
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.



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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.



Front Panel

- 1 POWER button and STANDBY lamp (8)
- 2 Display (8)
- 3 SURROUND button (16)
- 4 ONE TOUCH OPERATION button and lamp (12)
- 5 Remote sensor (7)
- 6 BASS BOOST lamp (10)
- 7 SETTING button (11)*
- 8 ADJUST button (10)*
- 9 MEMORY button (13)
- 10 MASTER VOLUME control (9)
- 11 Cursor control buttons
- 12 INPUT ATT. button and lamp (10)
- 13 SOURCE NAME button (11)
- 14 Source selecting buttons (8)
DVD MULTI, DVD, VCR, FM*, AM*,
TAPE/MD, PHONO, CD
- 15 SPEAKERS 1/2 buttons (9)
- 16 PHONES jack (9)

Remote Control

- 1 POWER buttons (8, 23)
TV, VCR, AUDIO
- 2 Source selecting buttons (8)
CD, TAPE/MD, FM/AM, VCR, DVD,
DVD MULTI, PHONO
- 3 ONE TOUCH OPERATION button (12)
- 4 VOLUME +/- buttons (9)
- 5 MUTING button (9)
- 6 SLEEP button (12)
- 7 • Operating buttons for audio/video
components (22)
- 8 • 10 keys for selecting preset channel (14,
22)
• 10 keys for adjusting sound (12, 17, 22)
• 10 keys for operating other components
(22)
- 9 SOUND CONTROL button (12, 17, 22)
- 10 TV VOL +/- buttons (23)
- 11 CD-DISC button (22)
- 12 TV CH +/- buttons (23)
- 13 TV/VIDEO button (23)
- 14 VCR CH +/- buttons (23)

IMPORTANT:

To use the Cursor control buttons (11) on the front panel:

What these buttons actually do depends on which function you are trying to adjust. Before using these buttons, select the function by pressing one of the buttons marked with *.

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° and 35° C.
- 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.

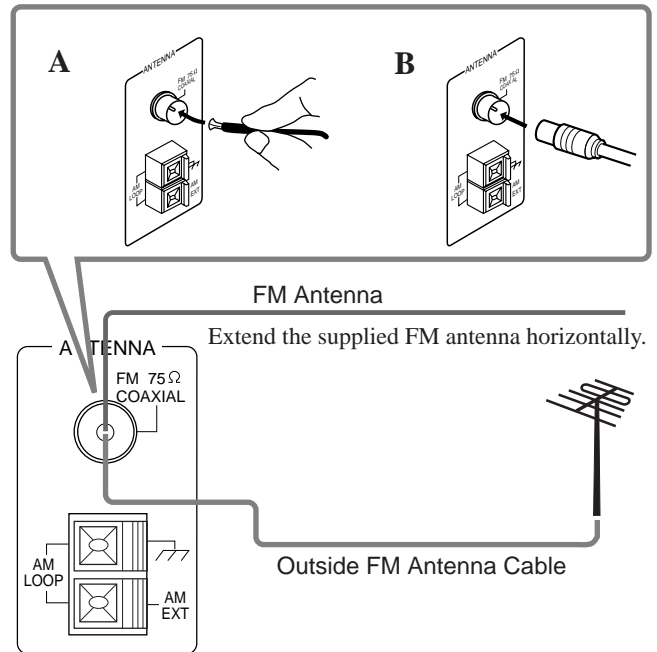
The number in the parentheses indicates quantity of the pieces supplied.

- **Remote Control (1)**
- **Batteries (2)**
- **AM Loop Antenna (1)**
- **FM Antenna (1)**

If anything is missing, contact your dealer immediately.

Connecting the FM and AM Antennas

FM Antenna Connections



A. Using the Supplied FM Antenna

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

B. Using the Standard Type Connector (Not Supplied)

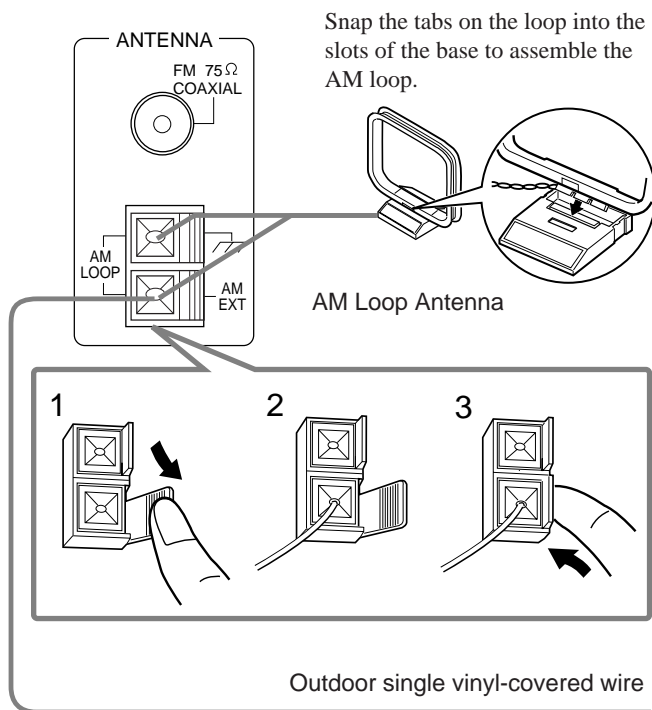
A standard type connector should be connected to the FM 75Ω COAXIAL terminal.

Note:

If reception is poor, connect the outside antenna.

Before attaching a 75Ω coaxial cable (the kind with a round wire going to an outside antenna), disconnect the supplied FM antenna.

AM 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 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:

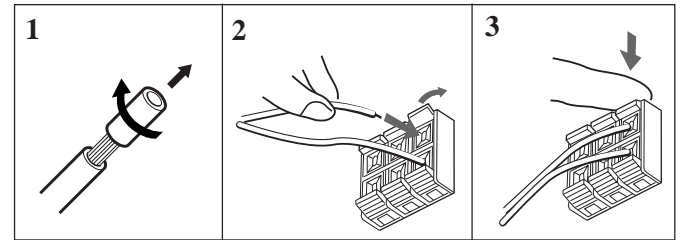
After connecting the speakers listed above, set the speaker setting information properly to obtain the best possible DSP (Digital Signal Processor) effect. For details, see page 11.

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

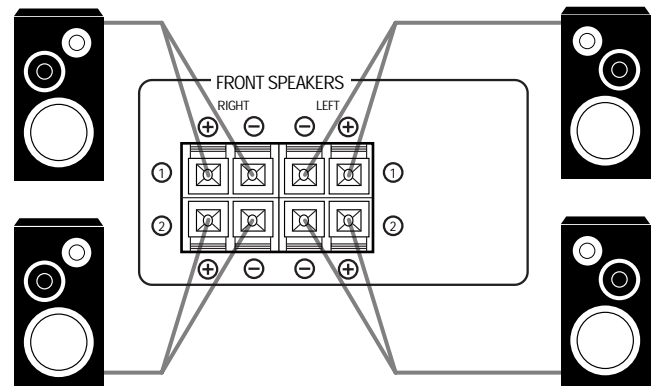


- 1 Cut, twist and remove the insulation at the end of each speaker signal cable.
- 2 Open the terminal and then insert the speaker signal cable.
- 3 Close the terminal.

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).

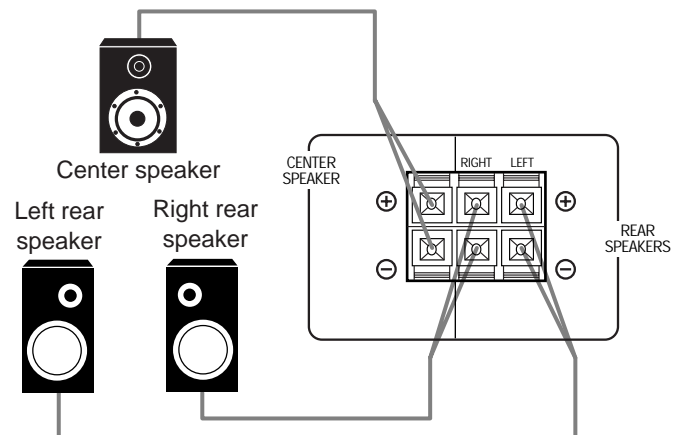
Right speaker — FRONT SPEAKERS ① — Left speaker



Right speaker — FRONT SPEAKERS ② — Left speaker

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.



Powered subwoofer

Connecting Audio/Video Components

You can connect the following audio/video components to this receiver using cables with RCA pin plugs (not supplied). Refer also to the manuals supplied with your components.

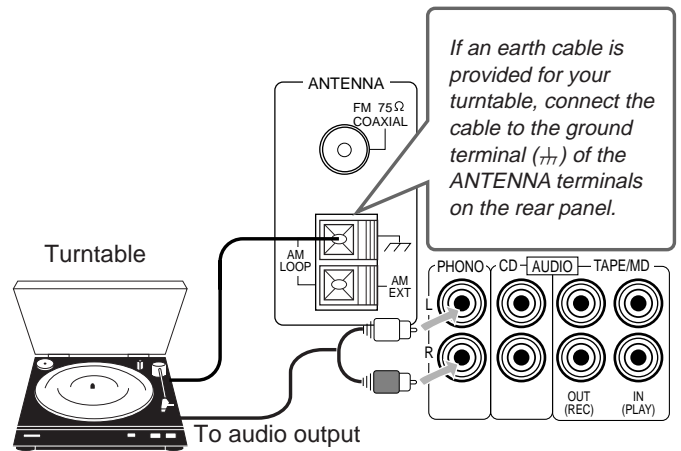
Use the cables with RCA pin plugs (not supplied). Connect the white plug to the audio left jack, and the red plug to the audio right jack.

Audio component connections

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.

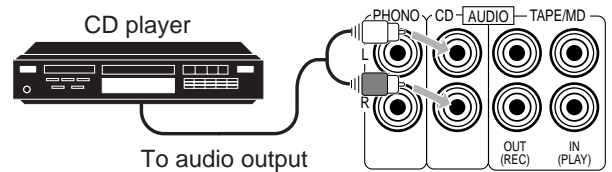
Turntable



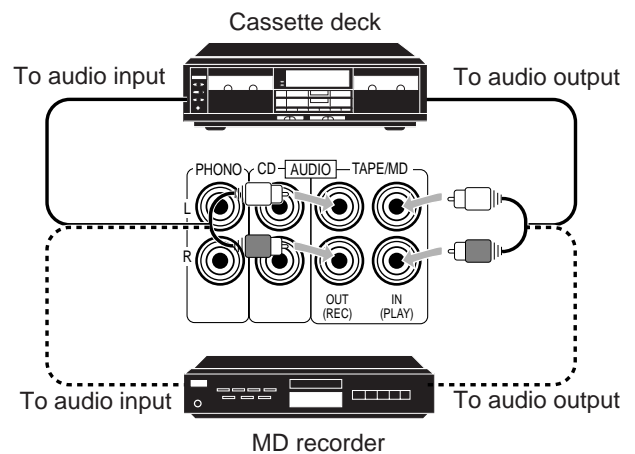
Note:

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 11 for details.

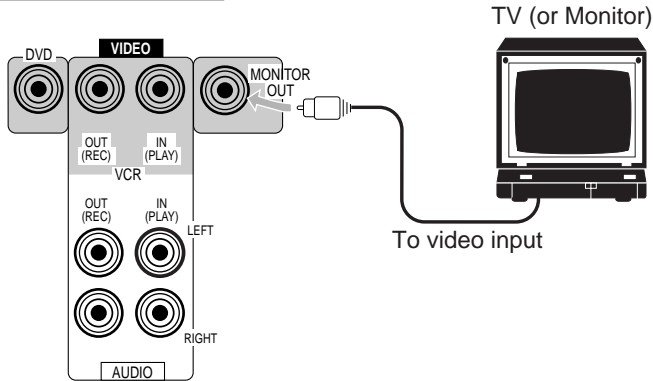
If your audio components have a COMPU LINK-3 terminal

See also page 21 for detailed information about the connection and the COMPU LINK-3 remote control system.

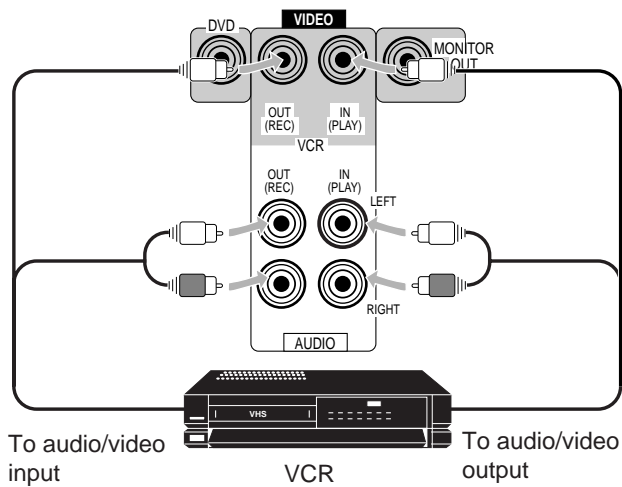
Video component connections

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.

TV (as the monitor)

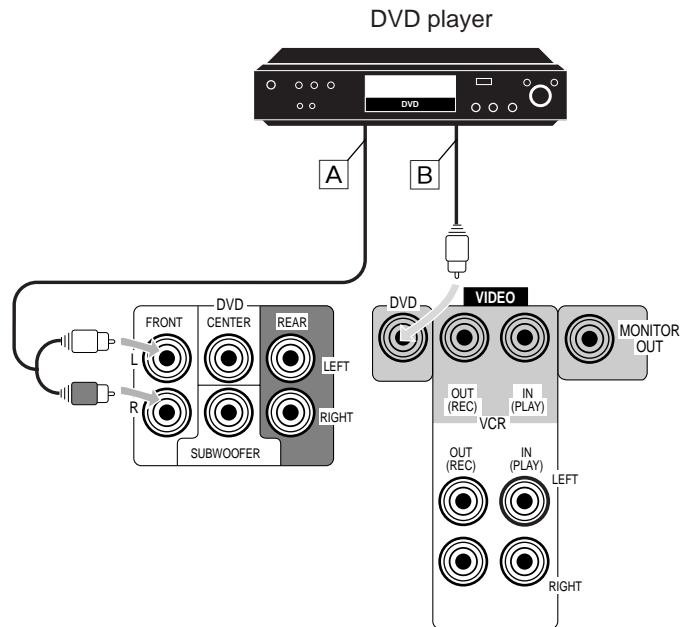


VCR



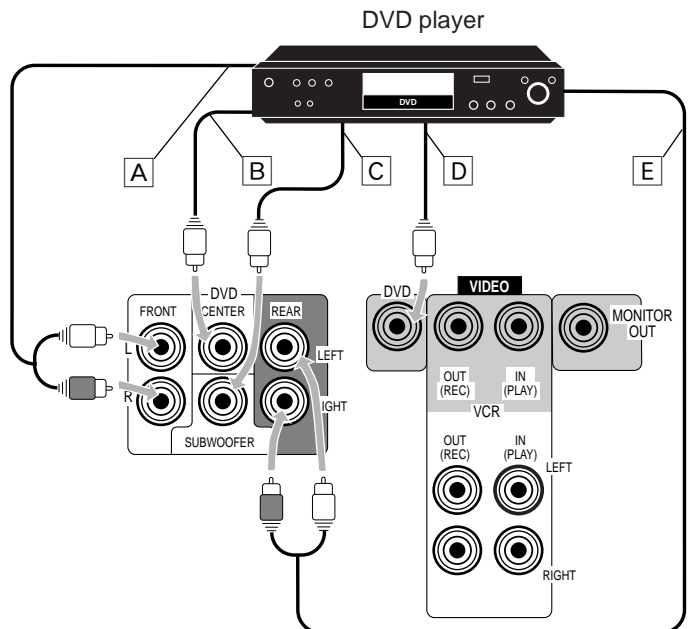
DVD player

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



- A To front left/right channel audio output (or to audio mixed output if necessary)
- B To video output

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

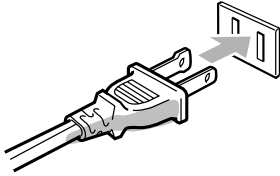


- A To front left/right channel audio output
- B To center channel audio output
- C To subwoofer audio output
- D To video output
- E To rear left/right channel audio output

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.

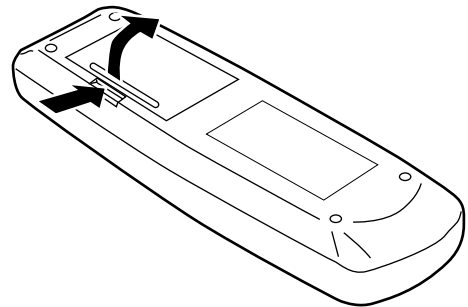
CAUTIONS:

- 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.

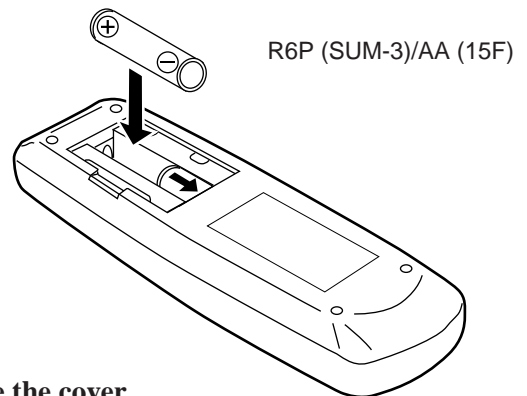
Putting Batteries in the Remote Control

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.

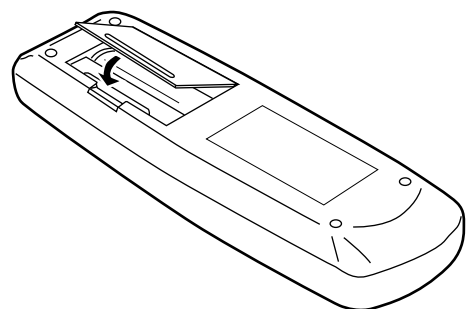
- 1. On the back of the remote control, remove the battery cover as illustrated.**



- 2. Insert batteries. Make sure to observe the proper polarity: (+) to (+) and (-) 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 indicated: (+) to (+) and (-) 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.

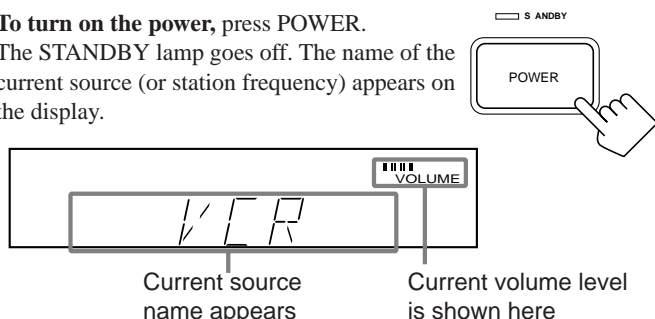
Basic Operations

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

Turning the Power On and Off (Standby)

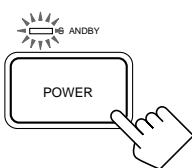
On the front panel:

To turn on the power, press POWER. 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 POWER 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.

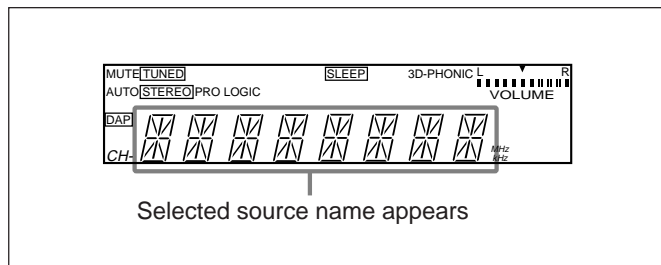


From the remote control:

To turn on the power, press AUDIO POWER. 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 POWER again. The STANDBY lamp lights up.



On the front panel:

- 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 20.
- DVD Select the DVD player for viewing the stereo digital video disc.
- VCR Select the video component connected to the VCR jacks.
- FM Select an FM broadcast.
- AM Select an AM broadcast.
- TAPE/MD Select the cassette deck (or the MD recorder).
- PHONO Select the turntable.
- CD Select the CD player.

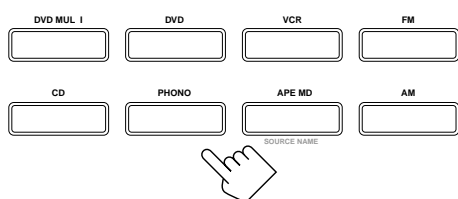
From the remote control:

- FM/AM Select an FM/AM broadcast. Each time you press the button, the band changes alternately.
- Other buttons function in the same way as the buttons on the front panel.

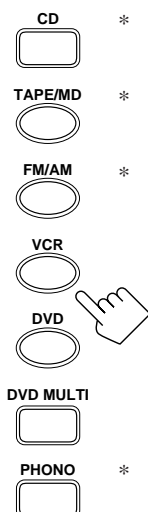
Selecting the Source to Play

Press one of the source selecting buttons.

On the front panel:



From the remote control:



Note:

When you press one of the source selecting buttons, marked above with an asterisk (*), on the remote control, the receiver automatically turns on.

Note:

When connecting an MD recorder (to the TAPE/MD jacks), change the source name that appears on the display. See page 11 for details.

Selecting different sources for picture and sound

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

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

Note:

Once you have selected a video source, pictures of the selected source are sent to the TV until you select another video source.

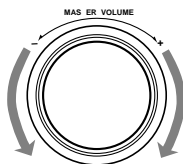
Adjusting the Volume

On the front panel:

To increase the volume, turn MASTER VOLUME clockwise (+).

To decrease the volume, turn it counterclockwise (-).

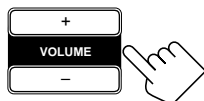
- When you turn MASTER VOLUME rapidly, the volume level also changes rapidly.
- When you turn MASTER VOLUME slowly, the volume level also changes slowly.



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.

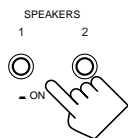
Note:

The volume level can be adjusted within the range of "0" (minimum) to "80" (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. Pressing SPEAKERS 1 or SPEAKERS 2 activates the respective set of speakers.



- To use the speakers connected to the **FRONT SPEAKERS ① terminals**, press SPEAKERS 1 to set it in the **ON** position, and press SPEAKERS 2 to set it in the **OFF** position.
- To use the speakers connected to the **FRONT SPEAKERS ② terminals**, press SPEAKERS 2 to set it in the **ON** position, and press SPEAKERS 1 to set it in the **OFF** position.
- To use **both sets of the speakers**, press SPEAKERS 1 to set it in the **ON** position, and press SPEAKERS 2 to set it in the **ON** position.
- To use **neither set of the speakers**, press SPEAKERS 1 and SPEAKERS 2 to set them in the **OFF** position.

Note:

When only one set of the speakers is connected to either the **FRONT SPEAKERS ①** or **② terminals**, do not activate both pairs of the speakers. If you do, no sound comes out of the front speakers.

Listening only with headphones

1. Connect a pair of headphones to the PHONES jack on the front panel.
2. Press SPEAKERS 1 and SPEAKERS 2 to set them in the **OFF** position.

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.

Note:

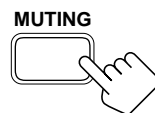
You cannot shut off the sound through the other speakers using the **SPEAKERS 1 and 2 buttons**.

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.

- Turning **MASTER VOLUME** or pressing **VOLUME +/-** also restores the sound.

Recording a Source

You can record any source playing through the receiver to a cassette deck (or an MD recorder) connected to the TAPE/MD jacks and the VCR connected to the VCR jacks at the same time.

While recording, you can listen to the selected sound source at whatever sound level you like, without affecting the sound levels of the recording.

Note:

The output volume level, tone adjustment (see page 10), Bass Boost (see page 10) and DSP modes (see page 15) cannot affect the recording.

IMPORTANT:

Before recording, turn off the DVD MULTI playback mode.

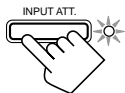
Attenuating the Input Signal

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 **INPUT ATT.** so that the lamp next to the button lights up.

- Each time you press the button, the Input Attenuator mode turns on or off.



Note:

When using DVD MULTI playback mode, this effect only applies to front left and right channel signals.

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...

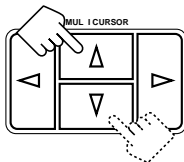
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

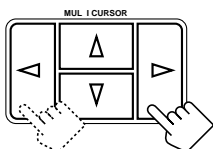
1. Press **ADJUST** so that the **MULTI CURSOR** Δ / ∇ buttons work for adjusting the sound.



2. Press **MULTI CURSOR** Δ / ∇ repeatedly until “BALANCE” appears on the display.



3. Press **MULTI CURSOR** \triangleleft / \triangleright to adjust the balance.



- Pressing \triangleleft decreases the right channel output.
- Pressing \triangleright decreases the left channel output.

Reinforcing the Bass

With this Bass Boost function, you can boost the bass level.

Before you start, remember...

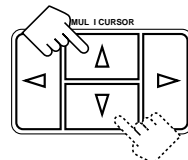
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

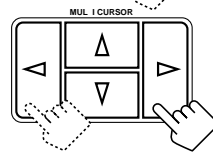
1. Press **ADJUST** so that the **MULTI CURSOR** Δ / ∇ buttons work for adjusting the sound.



2. Press **MULTI CURSOR** Δ / ∇ until “B-BOOST” appears on the display.



3. Press **MULTI CURSOR** \triangleleft / \triangleright to switch this function “ON” or “OFF”



- When this function is switched “ON,” the BASS BOOST lamp on the front panel lights up.

Note:

The Bass Boost function affects the front speaker sounds only.

Adjusting the Tone

You can adjust the treble and bass sounds as you like.

Before you start, remember...

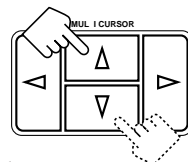
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

1. Press **ADJUST** so that the **MULTI CURSOR** Δ / ∇ buttons work for adjusting the sound.

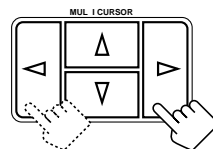


2. Press **MULTI CURSOR** Δ / ∇ repeatedly until “- BASS +” or “-TREBLE+” appears on the display.



- Select “- BASS +” to adjust the bass sound level.
- Select “-TREBLE+” to adjust the treble sound level.

3. Press **MULTI CURSOR** \triangleleft / \triangleright to adjust the bass or treble sound level within the range of -10 to +10.



- Each time you press the button, the sound level changes by ± 2 .

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.

Changing the Source Name

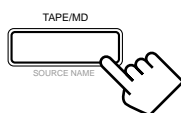
When you have connected an MD recorder to the TAPE/MD jacks on the rear panel: Change the source name shown on the display when you select the MD recorder as the source.

On the front panel ONLY:

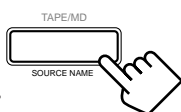
When changing the source name from "TAPE" to "MD":

1. Press TAPE/MD.

- Make sure "TAPE" appears on the display.



2. Press and hold SOURCE NAME (the same button as TAPE/MD) until "MD" appears on the display.



To change the source name from "MD" to "TAPE," repeat the same procedure above (in step 1, make sure "MD" appears on the display).

Note:

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

- "TAPE" will appear on the display when you select the MD recorder.
- You cannot use the COMPU LINK remote control system (see page 21) to operate the MD recorder.

Setting Center and Rear Speakers for the DSP Modes

To obtain the best possible surround sound of the DSP (Digital Signal Processor) modes (see page 15), you have to register the information about the speaker arrangement after all connections are completed.

Center Speaker Setting

Register the center speaker size.

Before you start, remember...

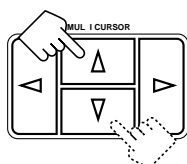
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

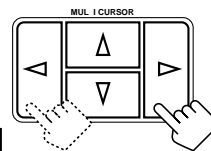
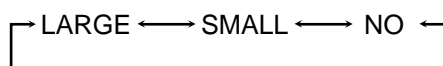
1. Press SETTING so that the MULTI CURSOR Δ / ∇ buttons work for setting the center speaker size.



2. Press MULTI CURSOR Δ / ∇ repeatedly until "CNTR SPK" (Center Speaker) appears on the display.



3. Press MULTI CURSOR \triangleleft / \triangleright to select your center speaker size.



LARGE: Select this mode when the size of the center speaker is the same as that of the front speakers.

SMALL: Select this mode when the size of the center speaker is smaller than that of the front speakers.

NO: Select this mode when you do not use a center speaker.

Rear Speaker Setting

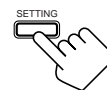
Register whether you have connected the rear speakers or not.

Before you start, remember...

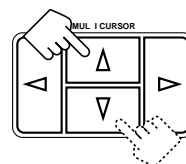
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

On the front panel ONLY:

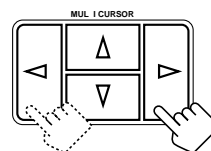
1. Press SETTING so that the MULTI CURSOR Δ / ∇ buttons work for setting the rear speaker information.



2. Press MULTI CURSOR Δ / ∇ repeatedly until "REAR SPK" (Rear Speaker) appears on the display.



3. Press MULTI CURSOR \triangleleft / \triangleright to register whether you have connected the rear speakers.



YES: Select this mode when you use rear speakers.

NO: Select this mode when you do not use rear speakers.

Note:

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

Delay Time Setting

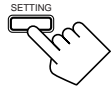
Register the delay time of the sound from the rear speakers, comparing the sound from the front speakers.

Before you start, remember...

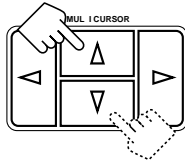
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.
- You can adjust the delay time only when you have connected the rear speakers and have set "REAR SPK" to "YES" (See above).
- Delay time setting is only valid for "PRO LOGIC" (See page 15).

On the front panel:

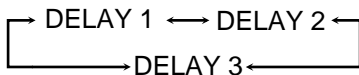
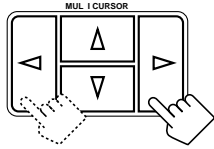
1. Press **SETTING** so that the **MULTI CURSOR** Δ / ∇ buttons work for setting the delay time.



2. Press **MULTI CURSOR** Δ / ∇ repeatedly until “-DELAY +” appears on the display.



3. Press **MULTI CURSOR** $\triangleleft / \triangleright$ to select an appropriate delay time.



DELAY 1: Select this mode when the distance from you to your rear speakers is greater than that to the front speakers.

DELAY 2: Select this mode when the distance from you to your rear speakers is almost equal to that to the front speakers.

DELAY 3: Select this mode when the distance from you to your rear speakers is less than that to the front speakers.

From the remote control:

1. Press **SOUND CONTROL**.
2. Press **SURROUND** repeatedly until “PRO-LOGIC” appears on the display.
3. Press **DELAY** repeatedly until an appropriate delay time appears on the display.

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 9)
- Input Attenuator (see page 10)
- Balance (see page 10)
- Bass Boost (see page 10)
- Tone adjustment (see page 10)
- DSP modes
 - 3D-PHONIC mode settings (see page 17)
 - DAP mode settings (see page 17)
 - Surround mode settings (see page 18)
- DVD MULTI playback mode settings (see page 20)

To store the sound settings

1. Press **ONE TOUCH OPERATION**.

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



On the front panel



On the remote

2. Adjust the sound using the functions listed to the left.

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, you can assign a different setting for each band.
- The DSP modes and DVD MULTI playback mode cannot be used at the same time.

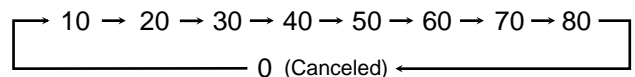
Using the Sleep Timer

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 “0.” 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.

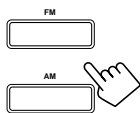
Tuning in Stations Manually

On the front panel ONLY:

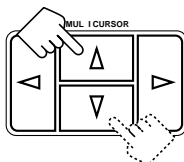
1. Press FM or AM.

The last station of the selected band is tuned in.

- The MULTI CURSOR Δ / ∇ / \triangleleft / \triangleright buttons can be now used for operating the tuner.



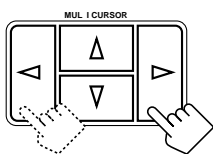
2. Press MULTI CURSOR Δ / ∇ repeatedly until “-TUNING+” appears on the display.



-- TUNING +

3. Press MULTI CURSOR \triangleleft / \triangleright until you find the frequency you want.

- Pressing \triangleleft decreases the frequency.
- Pressing \triangleright increases the frequency.



Notes:

- When you hold MULTI CURSOR \triangleleft / \triangleright in step 3, the frequency keeps changing until a station is tuned in.
- 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 stations and 15 AM 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.

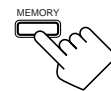
On the front panel ONLY:

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 14.

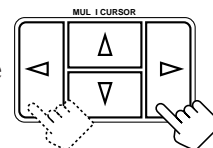
2. Press MEMORY.

“CH-” appears and the channel number position starts flashing on the display for about 5 seconds.



CH- _ _ _

3. Press MULTI CURSOR \triangleleft / \triangleright to select a channel number while the channel number position is flashing.



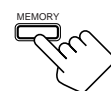
Note:

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 22.)

4. Press 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.

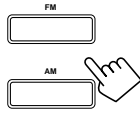
To tune in a preset station

On the front panel:

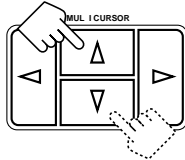
1. Press FM or AM.

The last station of the selected band is tuned in.

- The MULTI CURSOR Δ / ∇ / \triangleleft / \triangleright buttons can be now used for operating the tuner.

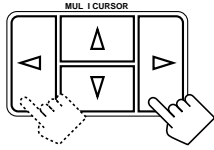


2. Press MULTI CURSOR Δ / ∇ repeatedly until “-PRESET+” appears on the display.



3. Press MULTI CURSOR \triangleleft / \triangleright to select a preset channel station.

- Pressing \triangleleft decreases the preset channel number.
- Pressing \triangleright increases the preset channel number.



From the remote control:

1. Press FM/AM.

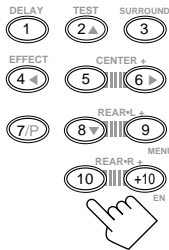
The last station is tuned in.

- Each time you press the button, the band alternates between FM and AM.



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 22.)

Selecting the FM Reception Mode

When an FM stereo broadcast is hard to receive or noisy

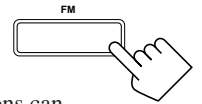
You can change the FM reception mode while receiving an FM broadcast.

On the front panel ONLY:

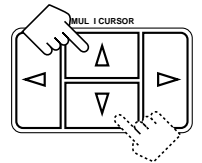
1. Press FM.

The last station of the selected band is tuned in.

- The MULTI CURSOR Δ / ∇ / \triangleleft / \triangleright buttons can be now used for operating the tuner.

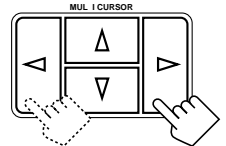


2. Press MULTI CURSOR Δ / ∇ repeatedly until “FM MODE” appears on the display.



FM MODE

3. Press MULTI CURSOR \triangleleft / \triangleright to switch the FM reception “FM MONO” or “FM AUTO.”



FM MONO

FM AUTO

FM AUTO: 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 MUTE AUTO indicator lights up on the display.

FM 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 MUTE AUTO indicator goes off on the display.

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 (Dolby Pro Logic and JVC Theater Surround).

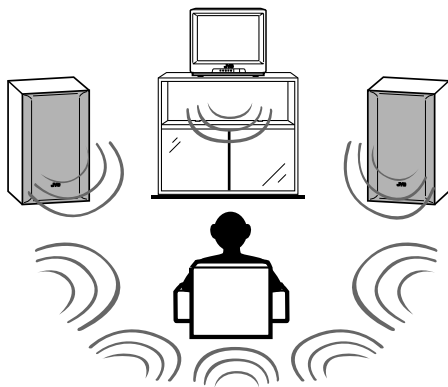
3D-PHONIC modes

The 3D-PHONIC mode gives you such a nearly surround effect as it 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 two front speakers are connected to this receiver (without respect to the rear/center speaker connection).**

You can select either 3D ACTION or 3D THEATER to your preference.

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.



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).**

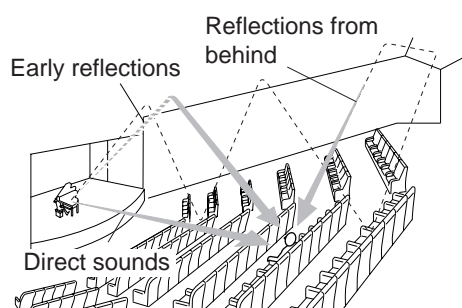
You can select one of the following to your preference.

DANCE CLUB: Gives a throbbing bass beat.

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

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

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

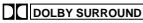


Surround Modes

With this receiver, you can use two types of the Surround modes.

• Dolby Surround

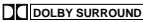
Dolby Surround has been developed to reproduce the important elements of the acoustic surround at home.

To watch the soundtracks of video software bearing the mark  * which includes the same encoded surround information as found in Dolby Stereo films, the receiver can provide you with Dolby Surround decoder.

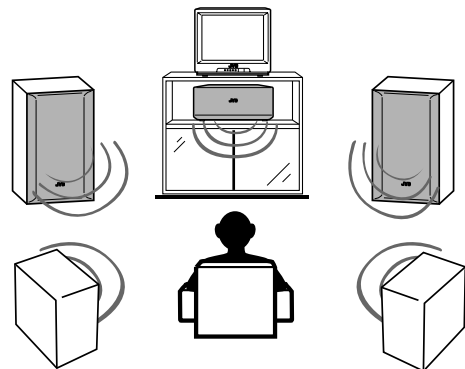
There are two types of Dolby Surround — “Pro Logic” and “3 Stereo.”

“Pro Logic” can be used when the front speakers and rear speakers are connected to this receiver (regardless of the center speaker connection). On the other hand, “3 Stereo” can be used when the rear speakers are not connected (center speaker must be connected).

• JVC Theater Surround

In order to reproduce a more realistic sound field in your listening room while playing soundtracks of video software bearing the mark , JVC Theater Surround has been designed to give you clearer vocals and to create a real “being there” feeling.

This mode can be used when the front speakers and rear speakers are connected to this receiver (without respect to the center speaker connection).



Notes:

- The DSP modes have no effect on monaural sources.
- The DSP modes cannot be used for recording.
- When you select “DVIDMULTI” as the source to play, you cannot select or adjust the DSP modes.

IMPORTANT:

Before recording, turn off the DVD MULTI playback mode.

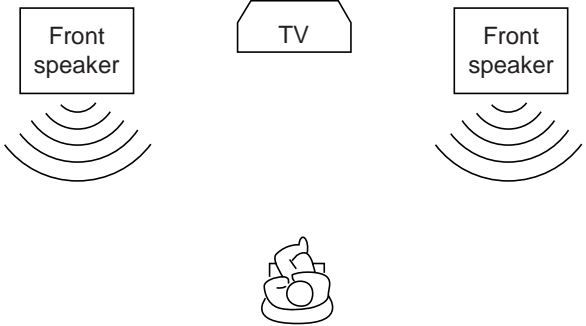
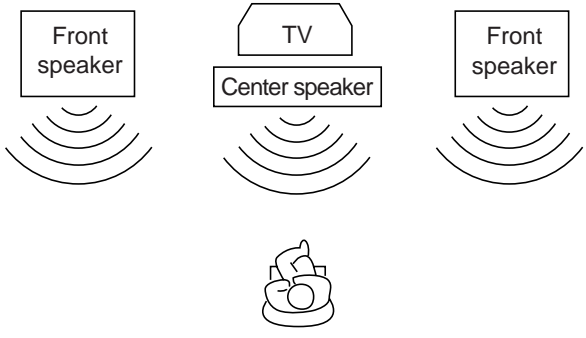
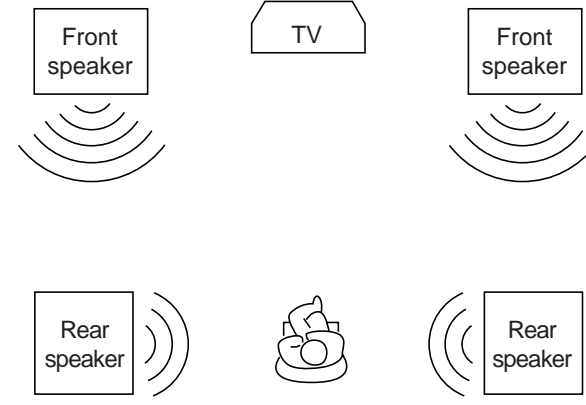
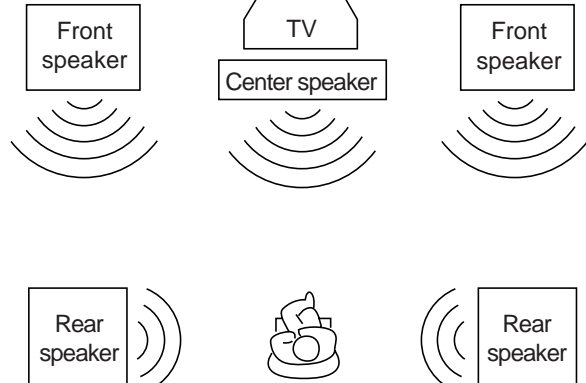
As for the DVD MULTI playback mode, see page 20.

* Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under Canadian patent number 1,037,877. “Dolby,” the double-D symbol, and “Pro Logic” are trademarks of Dolby Laboratories Licensing Corporation.

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 11).

Speaker arrangements	Available DSP modes
 <p>Diagram showing two front speakers, a TV, and a subwoofer.</p>	<p>Each time you press SURROUND, the DSP modes change as follows:</p> <ul style="list-style-type: none"> • 3D THEATER • DANCE C (DANCE CLUB) • LIVE C (LIVE CLUB) • HALL • PAVILION • 3D ACTION • OFF (DSP mode is canceled)
 <p>Diagram showing two front speakers, a TV, a center speaker, and a subwoofer.</p>	<p>Each time you press SURROUND, the DSP modes change as follows:</p> <ul style="list-style-type: none"> • 3 STEREO • 3D THEATER • DANCE C (DANCE CLUB) • LIVE C (LIVE CLUB) • HALL • PAVILION • 3D ACTION • OFF (DSP mode is canceled)
 <p>Diagram showing two front speakers, a TV, and two rear speakers.</p>	<p>Each time you press SURROUND, the DSP modes change as follows:</p> <ul style="list-style-type: none"> • PRO LOGIC • THEATER • DANCE C (DANCE CLUB) • LIVE C (LIVE CLUB) • HALL • PAVILION • 3D ACTION • OFF (DSP mode is canceled)
 <p>Diagram showing two front speakers, a TV, a center speaker, and two rear speakers.</p>	<p>Each time you press SURROUND, the DSP modes change as follows:</p> <ul style="list-style-type: none"> • PRO LOGIC • THEATER • DANCE C (DANCE CLUB) • LIVE C (LIVE CLUB) • HALL • PAVILION • 3D ACTION • OFF (DSP mode is canceled)

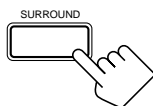
Adjusting the 3D-PHONIC Modes

Before you start, remember...

- Make sure that you have set the speaker information correctly (see page 11).
- There is a time limit in doing the following steps. If the setting is canceled before you finish, start from step 1 again.

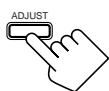
On the front panel:

1. Press **SURROUND** repeatedly until “3DACTION” or “3D THEATR” appears on the display.

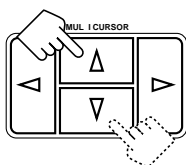


The 3D-PHONIC, PRO LOGIC indicators also light up on the display.

2. Press **ADJUST** so that the **MULTI CURSOR** $\Delta / \nabla / \triangleleft / \triangleright$ buttons work for adjusting the surround setting.

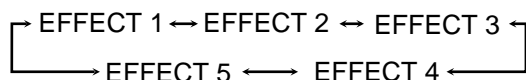


3. Press **MULTI CURSOR** Δ / ∇ repeatedly until “-EFFECT+” appears on the display.



4. Press **MULTI CURSOR** $\triangleleft / \triangleright$ 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.

From the remote control:

1. Press **SOUND CONTROL**.

The 10 keys are activated for sound adjustments.



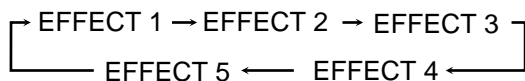
2. Press **SURROUND** repeatedly until “3DACTION” or “3D THEATR” appears on the display.

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



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.

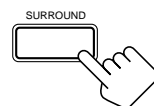
Adjusting the DAP Modes

Before you start, remember...

- Make sure that you have set the speaker information correctly (see page 11).
- 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 only adjust the rear speaker output level when you have connected the rear speakers and have set “REAR SPK” to “YES.” See page 11.

On the front panel:

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

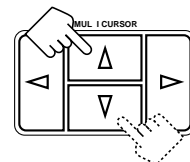


The DAP indicator also lights up on the display.

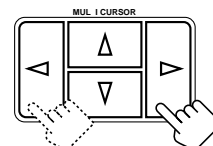
2. Press **ADJUST** so that the **MULTI CURSOR** $\Delta / \nabla / \triangleleft / \triangleright$ buttons work for adjusting the DSP setting.



3. Press **MULTI CURSOR** Δ / ∇ repeatedly until “- REAR +” appears on the display.



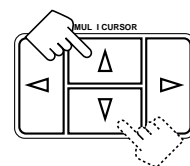
4. Press **MULTI CURSOR** $\triangleleft / \triangleright$ to adjust the rear speaker output level (from -10 to +10).



Note:

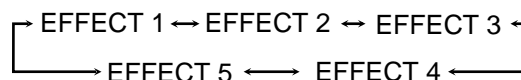
You cannot adjust the left and right rear speaker output levels separately.

5. Press **MULTI CURSOR** Δ / ∇ repeatedly until “-EFFECT+” appears on the display.



6. Press **MULTI CURSOR** $\triangleleft / \triangleright$ 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.

From the remote control:

1. Press SOUND CONTROL.

The 10 keys are activated for sound adjustments.



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

The DAP indicator also lights up on the display.



3. Press REAR•L – / + to adjust the rear speaker output level.

- Pressing REAR•L – decreases the output level up to –10 dB.
- Pressing REAR•L + increases the output level up to +10 dB.

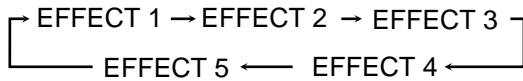


Note:

You cannot adjust the left and right rear speaker output levels separately.

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

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

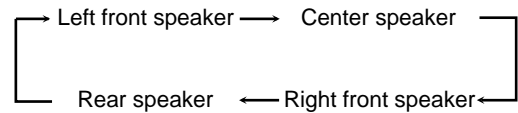


As the number increases, the selected DAP mode becomes stronger.



3. Press TEST to check the speaker output balance.

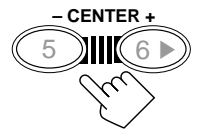
“TEST ” starts flashing on the display, and a test tone comes out of the speakers in the following order:



Note:

You can adjust the speaker output levels without outputting the test tone.

4. Press CENTER – / + repeatedly to adjust the center speaker output level (from –10 to +10).



5. Press REAR•L – / + to adjust the rear speaker output level (from –10 to +10).



Notes:

- You cannot adjust the left and right rear speaker output levels separately.
- You cannot use the REAR•R – / + buttons to adjust the rear speaker level.

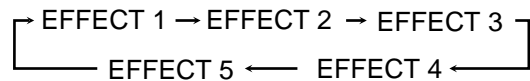
6. Press TEST again to stop the test tone.



7. ONLY FOR JVC Theater Surround:

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.



Adjusting the Surround Modes — Dolby Surround and JVC Theater Surround

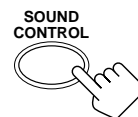
Before you start, remember...

- Make sure that you have set the speaker information correctly (see page 11).
- 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 only adjust the effect level when selecting JVC Theater Surround.
- You can only adjust the rear and/or center speaker output levels when you have connected rear speakers and/or a center speaker and have set “REAR SPK” and/or “CNTR SPK” correctly. See page 11.

From the remote control:

1. Press SOUND CONTROL.

The 10 keys are activated for sound adjustments.



2. Press SURROUND repeatedly until the mode — “PROLOGIC” or “3 STEREO” or “THEATER” — appears on the display.

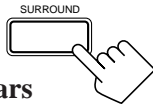
- For “PROLOGIC” and “3 STEREO,” the PRO LOGIC indicator lights up on the display.
- For “THEATER,” the PRO LOGIC and DAP indicators light up on the display.



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** repeatedly until the mode — “PROLOGIC” or “3 STEREO” or “THEATER”—appears on the display.

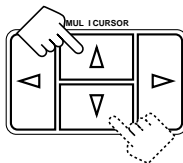


The PRO LOGIC indicator lights up on the display.

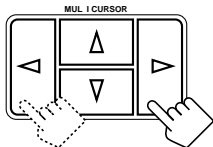
2. Press **ADJUST** so that the **MULTI CURSOR** $\Delta / \nabla / \triangleleft / \triangleright$ buttons work for adjusting the DSP setting.



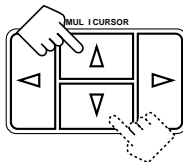
3. Press **MULTI CURSOR** Δ / ∇ repeatedly until “-CENTER+” appears on the display.



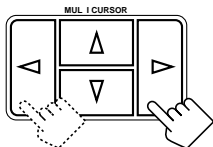
4. Press **MULTI CURSOR** $\triangleleft / \triangleright$ to adjust the center speaker output level (from -10 to +10).



5. Press **MULTI CURSOR** Δ / ∇ repeatedly until “- REAR +” appears on the display.



6. Press **MULTI CURSOR** $\triangleleft / \triangleright$ to adjust the rear speaker output level (from -10 to +10).

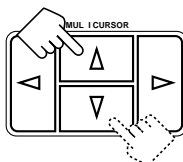


Note:

You cannot adjust the left and right rear speaker output levels separately.

7. **ONLY FOR JVC Theater Surround:**

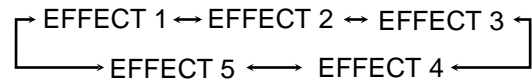
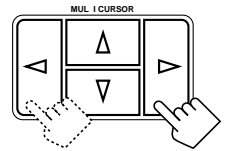
Press **MULTI CURSOR** Δ / ∇ repeatedly until “-EFFECT+” appears on the display.



8. **ONLY FOR JVC Theater Surround:**

Press **MULTI CURSOR** $\triangleleft / \triangleright$ to select an effect level you want.

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



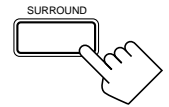
As the number increases, JVC Theater Surround becomes stronger.

Activating the DSP Modes

Once you have finished adjustments for the DSP modes, you can use the same adjustments every time you want to use these modes.

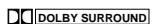
On the front panel:

1. Press **SURROUND** repeatedly until the DSP mode you want appears on the display.



- Each time you press the button, the DSP modes change. (See page 16 for more details)

2. Select and play a sound source.

- To enjoy the 3D-PHONIC, Dolby Surround, and JVC Theater Surround, play back a software which was processed with Dolby Surround and is labeled with  mark.

To cancel the DSP mode

Press **SURROUND** repeatedly until “OFF” appears on the display.

From the remote control:

1. Press **SOUND CONTROL**.

The 10 keys are activated for sound adjustments.

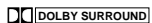


2. Press **SURROUND** repeatedly until the DSP mode you want appears on the display.



- Each time you press the button, the DSP modes change. (See page 16 for more details)

3. Select and play a sound source.

- To enjoy the 3D-PHONIC, Dolby Surround, and JVC Theater Surround, play back a software which was processed with Dolby Surround and is labeled with  mark.

To cancel the DSP mode

Press **SURROUND** repeatedly until “OFF” appears on the display in step 2 above.

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.

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 made adjustments, the receiver memorizes the adjustments until you change them.

Before you start, remember...

- Make sure that you have set the speaker information correctly (see page 11).
- 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 only adjust the rear and/or center speaker output levels when you have connected rear speakers and/or a center speaker and have set "REAR SPK" and/or "CNTR SPK" correctly. See page 11.

On the front panel:

1. Press DVD MULTI.



Note:

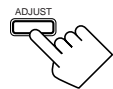
When you select "DVMULTI" as the source to play, the DSP mode is canceled temporarily, and the SURROUND button does not work.

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

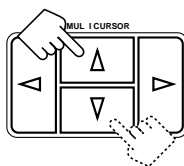
- Refer to the manual supplied with the DVD player.

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

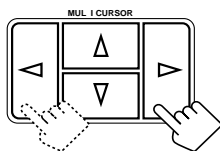
3. Press ADJUST so that the MULTI CURSOR $\Delta / \nabla / \triangleleft / \triangleright$ buttons work for adjusting the DVD MULTI playback setting.



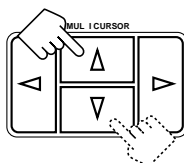
4. Press MULTI CURSOR Δ / ∇ repeatedly until "-CENTER+" appears on the display.



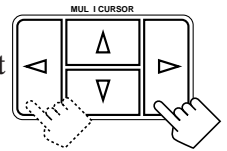
5. Press MULTI CURSOR $\triangleleft / \triangleright$ to adjust the center speaker output level (from -10 to +10).



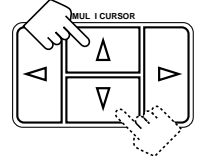
6. Press MULTI CURSOR Δ / ∇ repeatedly until "-REAR L+" appears on the display.



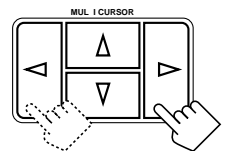
7. Press MULTI CURSOR $\triangleleft / \triangleright$ to adjust the left rear speaker output level (from -10 to +10).



8. Press MULTI CURSOR Δ / ∇ repeatedly until "-REAR R+" appears on the display.

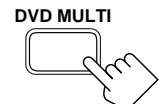


9. Press MULTI CURSOR $\triangleleft / \triangleright$ to adjust the right rear speaker output level (from -10 to +10).



From the remote control:

1. Press DVD MULTI.



Note:

When you select "DVMULTI" as the source to play, the DSP mode is canceled temporarily, and the SURROUND button does 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 CONTROL.

The 10 keys are activated for adjusting the sound.



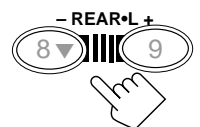
4. Press CENTER - / + to adjust the center speaker output level.

- Pressing CENTER - decreases the output level up to -10 dB.
- Pressing CENTER + increases the output level up to +10 dB.



5. Press REAR•L - / + to adjust the left rear speaker output level.

- Pressing REAR•L - decreases the output level up to -10 dB.
- Pressing REAR•L + increases the output level up to +10 dB.



6. Press REAR•R - / + to adjust the right rear speaker output level.

- Pressing REAR•R - decreases the output level up to -10 dB.
- Pressing REAR•R + increases the output level up to +10 dB.

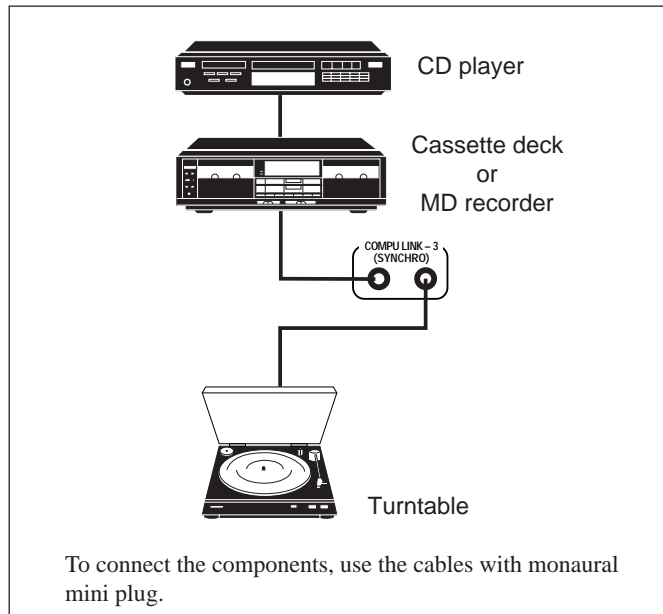


COMPU LINK Remote Control System

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 page 5).

- 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 11.)
- 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 22 and 23.

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 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.

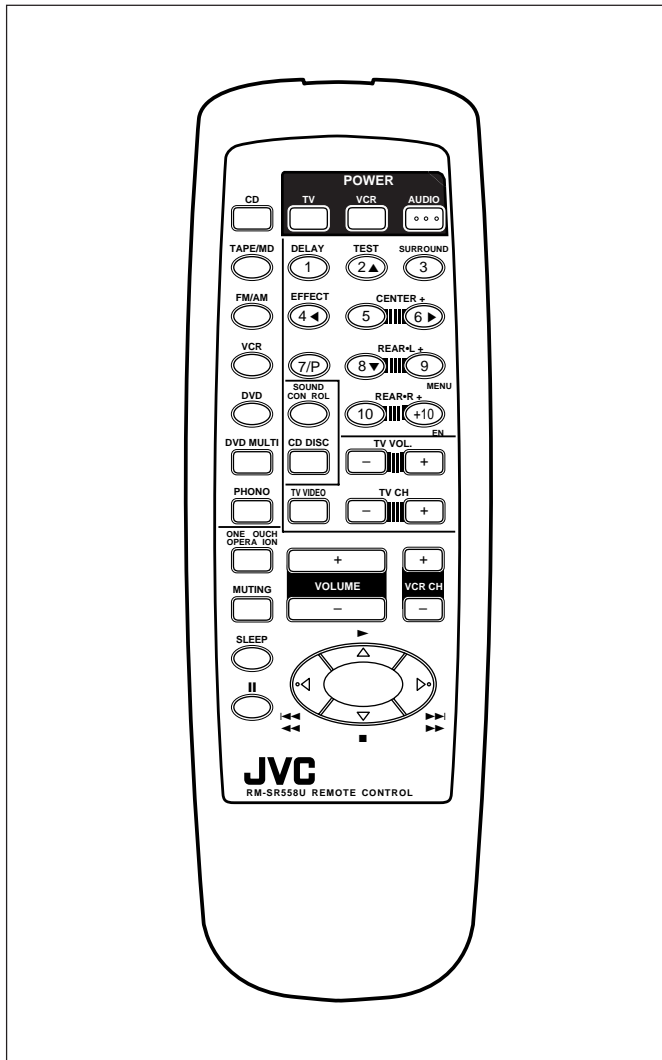
Operating JVC's Audio/Video Components

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.

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 21) in addition to the connections using cables with RCA pin plugs (see page 5).
- Aim the remote control directly at the remote sensor on the receiver.
- If you use the buttons on the front panel 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 buttons on the remote control.
- Refer also to the manuals supplied with your components.



Tuner

After pressing FM/AM, you can perform the following operations:

- FM/AM: Alternates between FM and AM.
- 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.

Sound control section (Amplifier)

After pressing SOUND CONTROL, you can perform the following operations:

- SURROUND: Selects the DSP modes.
- CENTER - / +: Adjusts the center speaker output level for the Surround/DVD MULTI playback modes.
- REAR•L - / +: Adjusts the left/right rear speaker output level for the DSP modes.
Adjusts the left rear speaker output level for the DVD MULTI playback mode.
- REAR•R - / +: Adjusts the right rear speaker output level for the DVD MULTI playback mode.
- DELAY: Selects the delay time of the rear speaker sound. (Only works when "PROLOGIC" is selected.)
- EFFECT: Selects the effect level for the DSP modes.
- TEST: Turns on or off the test tone output for the Surround mode.

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.

Cassette deck

After pressing TAPE/MD, you can perform the following operations on a cassette deck:

- ▶: Starts playing.
- ◀◀: Fast winds the tape from right to left.
- ▶▶: Fast winds the tape from left to right.
- : Stops operations.
- ||: Pauses playing. To release it, press ▶.

Note:

To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 11.)

CD player

After pressing CD, you can perform the following operations on the CD player:

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

After pressing CD, 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.

CD player-changer

After pressing CD-DISC, you can perform the following operations on a CD player-changer:

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

If your CD changer is of 200-disc loading capability (except for XL-MC100 and XL-MC301), you can do the following operations using the number buttons after pressing CD.

- 10 button can function as 0.

1. **Select a disc number.**
2. **Then select a track number (always enter two digits).**
3. **Start playback.**

Ex.

Selecting disc number 3, track number 2, and start playback.
Press 3, then, 10, 2, then ▶.

Selecting disc number 10, track number 5, and start playback.
Press 1, 10, then, 10, 5, then ▶.

Selecting disc number 105, track number 12, and start playback.
Press 1, 10, 5, then 1, 2, then ▶.

MD recorder

After pressing TAPE/MD, you can perform the following operations on the MD recorder:

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

Note:

To operate the cassette deck or MD recorder using the COMPU LINK remote control system, set the source name correctly. (See page 11.)

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 VCR connected to the VCR jacks is set to code "A."

VCR

You can always perform the following operations :

VCR POWER: Turns on or off the VCR.

VCR CH +/-: Changes the channels on the VCR.

After pressing VCR, you can perform the following operations on the VCR:

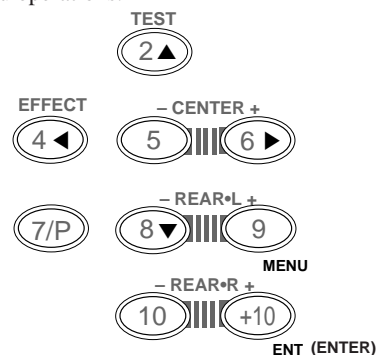
- ▶: Starts playing.
- ◀◀: Rewinds a tape.
- ▶▶: Fast winds a tape.
- : Stops operations.
- ||: Pauses playing. To release it, press ▶.

DVD player

After pressing DVD or DVD MULTI, you can perform the following operations on a DVD player:

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

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:

TV POWER: Turns on or off the TV.

TV VOL. +/-: Adjusts the volume.

TV/VIDEO: Sets the input mode (either TV or VIDEO).

TV CH +/-: Changes the channels.

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 9).
Continuous hiss or buzzing during FM reception.	Incoming signal is too weak.	Connect an outside 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.
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.	Rotate the MASTER VOLUME control counterclockwise three or four times, then press POWER on the front panel. If "OVERLOAD" does not disappear, unplug the AC power cord, then plug it back again.
	Speakers are overloaded because of short circuit of speaker terminals.	Press POWER 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.	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: **100 watts per channel, min. RMS, driven into 8 ohms, at 40 Hz to 20 kHz with no more than 0.8 % total harmonic distortion.**

At Surround operation:

Front Channel: 100 watts per channel, min. RMS, driven into 8 ohms at 1 kHz with no more than 0.8 % total harmonic distortion.

Center channel: 100 watts, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.8 % total harmonic distortion.

Rear channel: 50 watts per channel, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.8 % total harmonic distortion.

Total Harmonic Distortion (8 ohms, 1 kHz):
0.8 %* at 100 watts output
(* Measured by JVC Audio Analysis System)

Audio

Audio Input Sensitivity/Impedance (1 kHz):

PHONO (MM): 2.7 mV/47 k ohms

CD, TAPE/MD, VCR, DVD:
220 mV/47 k ohms

Audio Output Level: TAPE/MD, VCR 220 mV

Signal-to-Noise Ratio (*66 IHF/78 IHF):

PHONO: 70 dB/77 dB (at REC OUT)

CD, TAPE/MD, VCR, DVD:
87 dB/67 dB

Frequency Response (8 ohms):

PHONO: 20 Hz to 20 kHz (± 1 dB)

CD, TAPE/MD, VCR, DVD:
20 Hz to 20 kHz (± 1 dB)

RIAA Phono Equalization: ± 1.0 dB (20 Hz to 20 kHz)

Video

Video Input Sensitivity/Impedance:

VCR, DVD: 1V_{p-p}/75 ohms

Video Output Level:

VCR, MONITOR OUT: 1V_{p-p}/75 ohms

Synchronization: Negative

Signal-to-Noise Ratio: 45dB

FM tuner (IHF)

Tuning Range: 87.5 MHz to 108.0 MHz

Usable Sensitivity: Monaural: 12.8 dBf (1.20 μ V/75 ohms)

50 dB Quieting Sensitivity:

Monaural: 21.3 dBf (3.2 μ V/75 ohms)

Stereo: 41.3 dBf (31.5 μ V/75 ohms)

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:

45 dB: (± 400 kHz)

Frequency Response: 30 Hz to 15 kHz: (+0.5 dB, -3 dB)

AM tuner

Tuning Range: 530 kHz to 1,710 kHz

Usable Sensitivity: Loop antenna 400 μ V/m

Signal-to-Noise Ratio: 50 dB (100 mV/m)

General

Power Requirements: AC 120V \sim , 60 Hz

Power Consumption: 290 watts/390 VA (at operation)
2 watts (in standby mode)

Dimensions (W x H x D): 435 x 146 x 403.5 mm
(17 ³/₁₆ x 5 ³/₄ x 15 ¹⁵/₁₆ inches)

Mass: 10.2 kg (22.5 lbs)

Designs & specifications are subject to change without notice.

HOW TO LOCATE YOUR JVC SERVICE CENTER

TOLL FREE : 1-800-537-5722

<http://www.jvcservice.com>

Dear customer:

In order to receive the most satisfaction from your purchase, read the instruction booklet before operating the unit. In the event that repair is necessary, or for the address nearest your location, please refer to the factory service center list below or within the Continental United States, Call 1-800-537-5722 for your authorized servicer. Remember to retain your Bill of Sale for Warranty Service.

—JVC

JVC SERVICE & ENGINEERING COMPANY OF AMERICA

DIVISION OF JVC AMERICAS CORP.

FACTORY SERVICE CENTER LOCATIONS

10 New Maple Avenue
Pine Brook, NJ 07058-9641
(973) 396-1000

1500 Lakes Parkway
Lawrenceville, GA 30243-5857
(770) 339-2582

705 Enterprise Street
Aurora, IL 60504-8149
(630) 851-7855

5665 Corporate Avenue
Cypress, CA 90630-0024
(714) 229-8011

2969 Mapunapuna Place
Honolulu, HI 96819-2040
(808) 833-5828

10700 Hammerly, Suite 110
Houston, TX 77043
(713) 935-9331

13 Cummings Park
Woburn, MA 01801
(781) 376-9100

8192 State Road 84
Davie, FL 33324
(954) 472-1960

890 Dubuque Avenue
South San Francisco, CA 94080-1804
(650) 871-2666

Sophisticated electronic products may require occasional service. Just as quality is a keyword in the engineering and production of the wide array of JVC products, service is the key to maintaining the high level of performance for which JVC is world famous. The JVC service and engineering organization stands behind our products.

NATIONAL HEADQUARTERS
JVC SERVICE & ENGINEERING COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.
1700 Valley Road
Wayne, NJ 07470

If you ship the product •••

Pack your JVC unit in the original carton or one of equivalent size and strength. Enclose, with the unit, a letter stating the problem or symptom that exists and also a copy of the receipt or bill of sale you received when you purchased your JVC unit. Print your home return address on the outside and the inside of the carton. Send to the appropriate JVC Factory Service Center as listed above.

Don't service it yourself.

CAUTION

*To prevent electrical shock, do not open the cabinet. No user serviceable parts inside.
Refer servicing to qualified service personnel.*

ACCESSORIES

*To purchase accessories for your JVC product, you may contact your local JVC Dealer.
Or from the 48 Continental United States call toll free : 800-882-2345*



LIMITED WARRANTY AUDIO-2

JVC COMPANY OF AMERICA warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL PURCHASER AT RETAIL to be FREE FROM DEFECTIVE MATERIAL AND WORKMANSHIP from the date of original retail purchase for the period as shown below. ("The Warranty Period.")

PARTS	LABOR
2YR	2YR

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY(50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective, JVC will repair or replace defective parts at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products and parts thereof may be brought to a JVC authorized service center on a carry-in basis except for Television sets having a screen size 25 inches and above which are covered on an in-home basis.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Return your product to a JVC authorized service center with a copy of your bill of sale. For your nearest JVC authorized service center, please call toll free: (800)537-5722. If service is not available locally, box the product carefully, preferably in the original carton, and ship, insured, with a copy of your bill of sale plus and letter of explanation of the problem to the nearest JVC Factory Service Center, the name and location of which will be given to you by the toll-free number. If you have any questions concerning your JVC Product, please contact our Customer Relations Department.

WHAT IS NOT COVERED:

- This limited warranty provided by JVC does not cover:
1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
 2. Initial installation and installation and removal for repair;
 3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
 4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
 5. Signal reception problems and failures due to line power surge;
 6. Video Pick-up Tubes/CCD Image Sensor, Cartridge, Stylus(Needle) are covered for 90 days from the date of purchase;
 7. Accessories;
 8. Batteries (except the Rechargeable Batteries are covered for 90 days from the date of purchase);

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR THE LOSS OF USE OF THE PRODUCT, INCONVENIENCE, LOSS OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty last, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
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1700 Valley Road
Wayne, NJ 07470

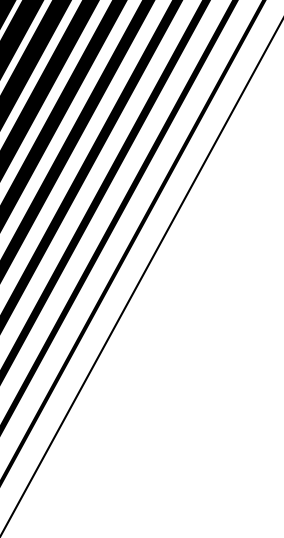
REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAILS OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

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

Model No.: _____ Serial No.: _____

Purchase date: _____ Name of dealer: _____



JVC
VICTOR COMPANY OF JAPAN, LIMITED