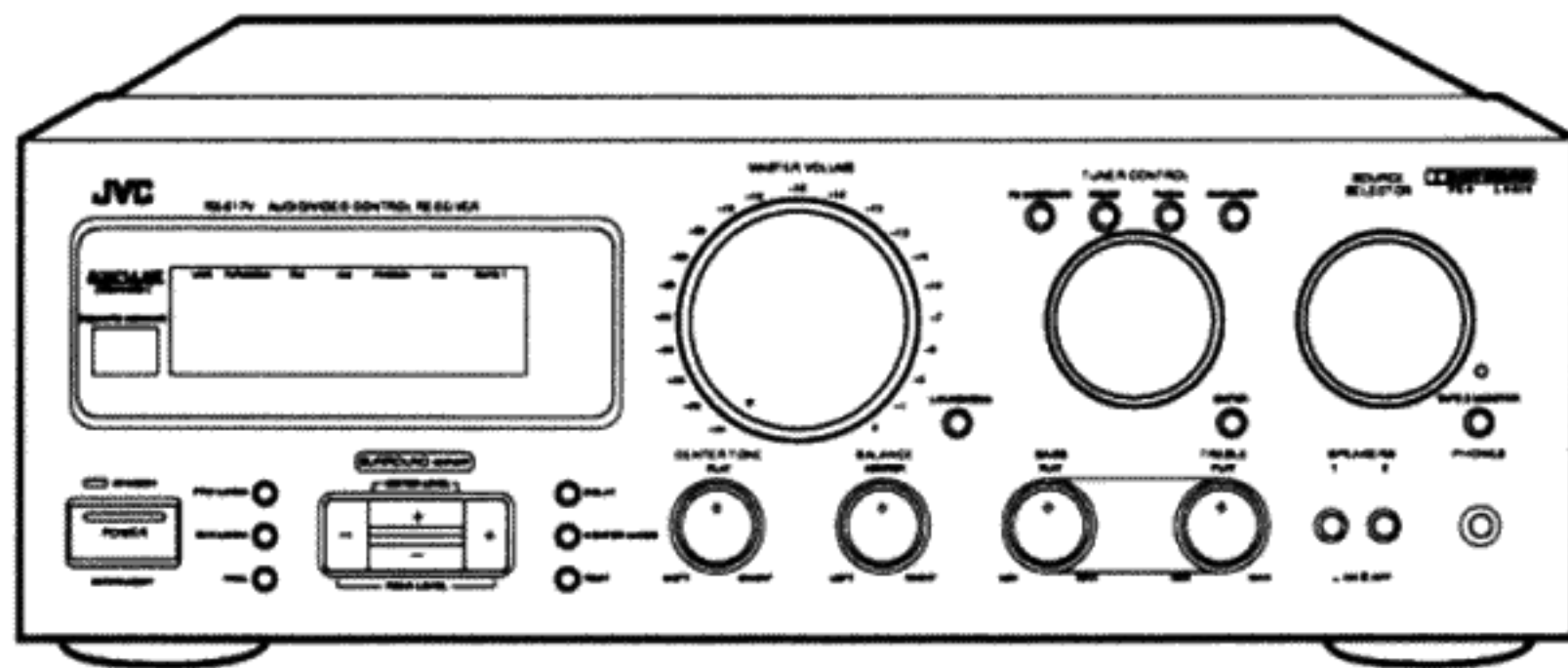


JVC

INSTRUCTIONS

RX-517VTN

AUDIO/VIDEO CONTROL RECEIVER



COMPU LINK
/// Remote ///
Control Component

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. _____

E30580-2165A •

[J]

Warnings, Cautions and Others



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.

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.

This apparatus does connect with the mains line even when POWER is set to STANDBY. The power of this apparatus can be also controlled from the remote control unit. Disconnect the mains plug to shut the power off completely.

Once you have found the best surround settings for your listening room, note them in the table below for future reference (even though the RX-517VTN memorizes the settings until you change them).

For actual setting procedures, see page 16 — 20.

Surround Mode	Hall Surround	Dolby Pro Logic	Dolby 3ch Logic
Center Mode	Not used	PHANTOM NORMAL WIDE OFF	NORMAL WIDE OFF
Delay Time	DELAY-1 DELAY-2 DELAY-3	DELAY-1 DELAY-2 DELAY-3	Not used
Center Speaker Level	Not used	*	
Rear Speaker Level	*		Not used

* Center speaker and rear speaker levels cannot be stored separately for each surround mode.

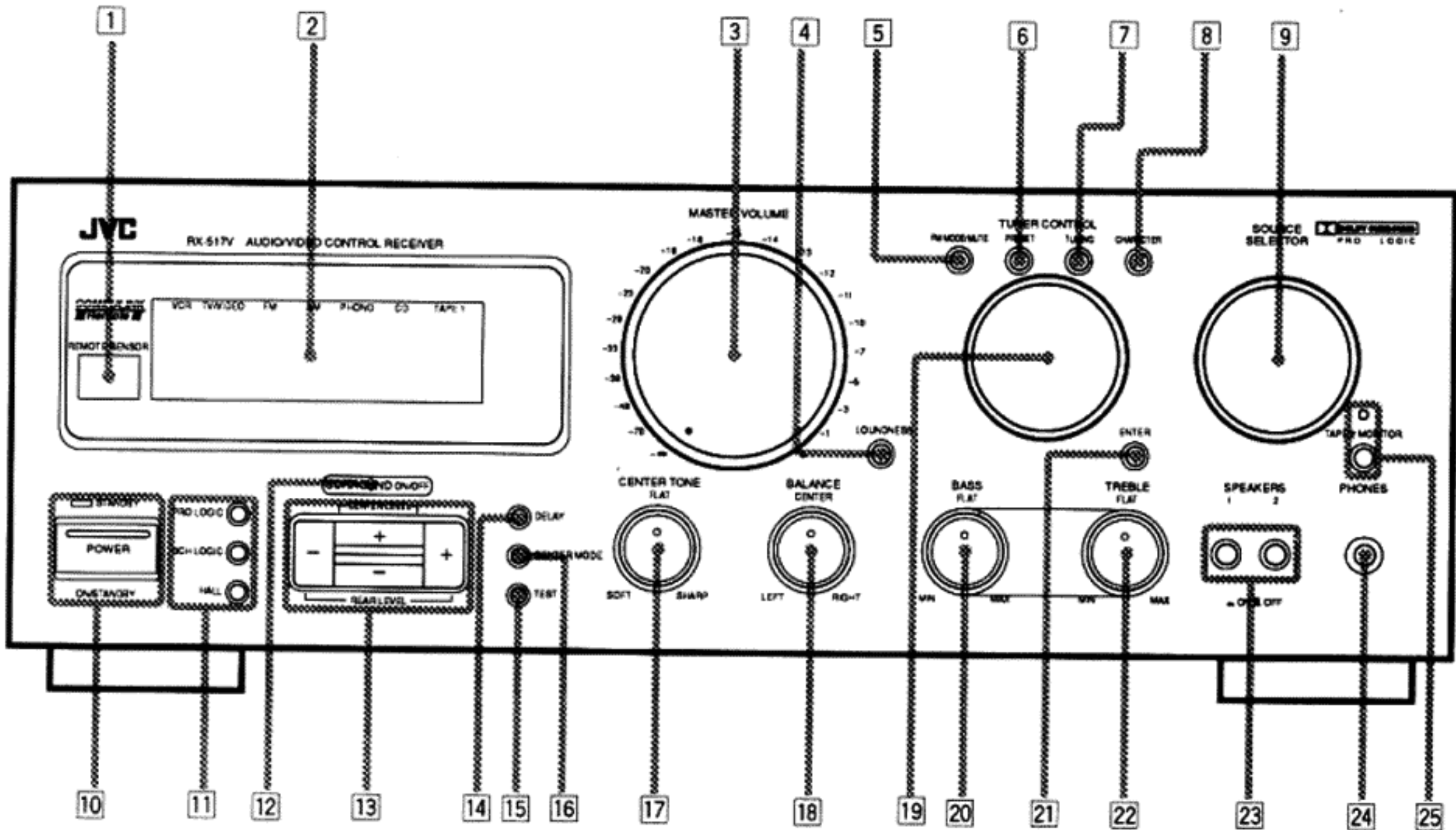
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Introduction

Become familiar with the main switches and controls on your RX-517VTN before use.

Switches, Buttons and Controls



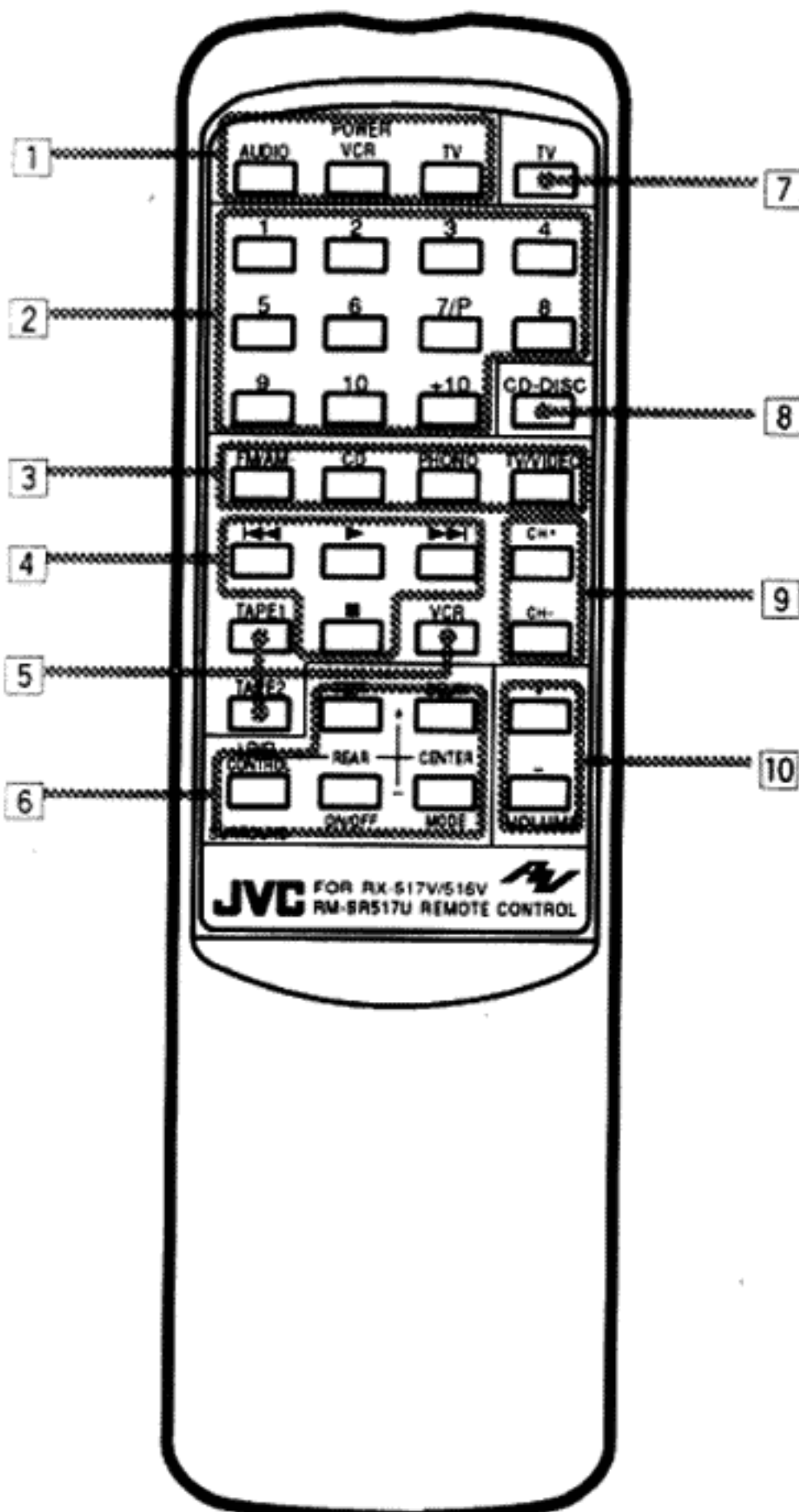
Refer to the pages in parentheses for details.

Front Panel

- 1 Remote sensor
- 2 Display (10)
- 3 MASTER VOLUME control (11)
- 4 LOUDNESS button (12)
- 5 FM MODE/MUTE button (14)
- 6 PRESET button (14)
- 7 TUNING button (13)
- 8 CHARACTER button (15)
- 9 SOURCE SELECTOR (10)
- 10 POWER button and STANDBY indicator (10)
- 11 Surround program buttons (16, 18, 20)
- 12 SURROUND ON/OFF button (16, 18, 20)
- 13 REAR LEVEL/CENTER LEVEL buttons (+/-) (19)
- 14 DELAY button (18)
- 15 TEST button (19)
- 16 CENTER MODE button (18)
- 17 CENTER TONE control (20)
- 18 BALANCE control (11)
- 19 TUNER CONTROL (13, 14, 15)
- 20 BASS control (11)
- 21 ENTER button (13)
- 22 TREBLE control (11)
- 23 SPEAKERS 1/2 buttons (11)
- 24 PHONES jack (12)
- 25 TAPE2 MONITOR button and indicator (10, 21)

Remote Control

- 1 POWER buttons (10, 22)
- 2 10 keys (13, 14, 22)
- 3 Source selecting buttons (FM/AM, CD, PHONO, TV/VIDEO) (10, 22)
- 4 Operating buttons for JVC audio/video components (22)
- 5 Source selecting buttons (TAPE1, TAPE2, VCR) (10, 22)
- 6 Surround adjustment buttons (18, 19)
- 7 TV button (22)
- 8 CD-DISC button (22)
- 9 CH+/- buttons (22)
- 10 VOLUME buttons (+/-) (11)



Getting Started

This section explains how to connect stereo components and speakers to the RX-517VTN, 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 23° and 104° F (-5° and 40° C).
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.

Handling the receiver

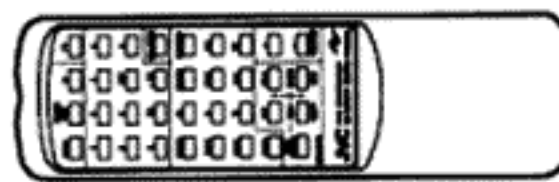
- Do not insert any metal object into the receiver.
 - Do not disassemble the receiver or remove screws, covers, or cabinet.
 - Do not expose the receiver to rain or moisture.
-

Checking the Supplied Accessories

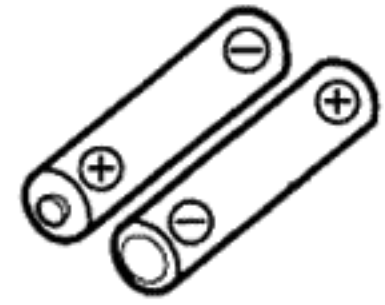
Check to be sure you have all of the following items, which are supplied with the RX-517VTN.



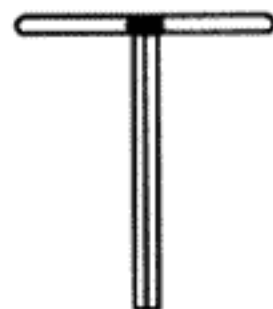
AM Loop Antenna



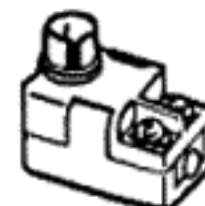
Remote Control



Batteries



FM Feeder Antenna

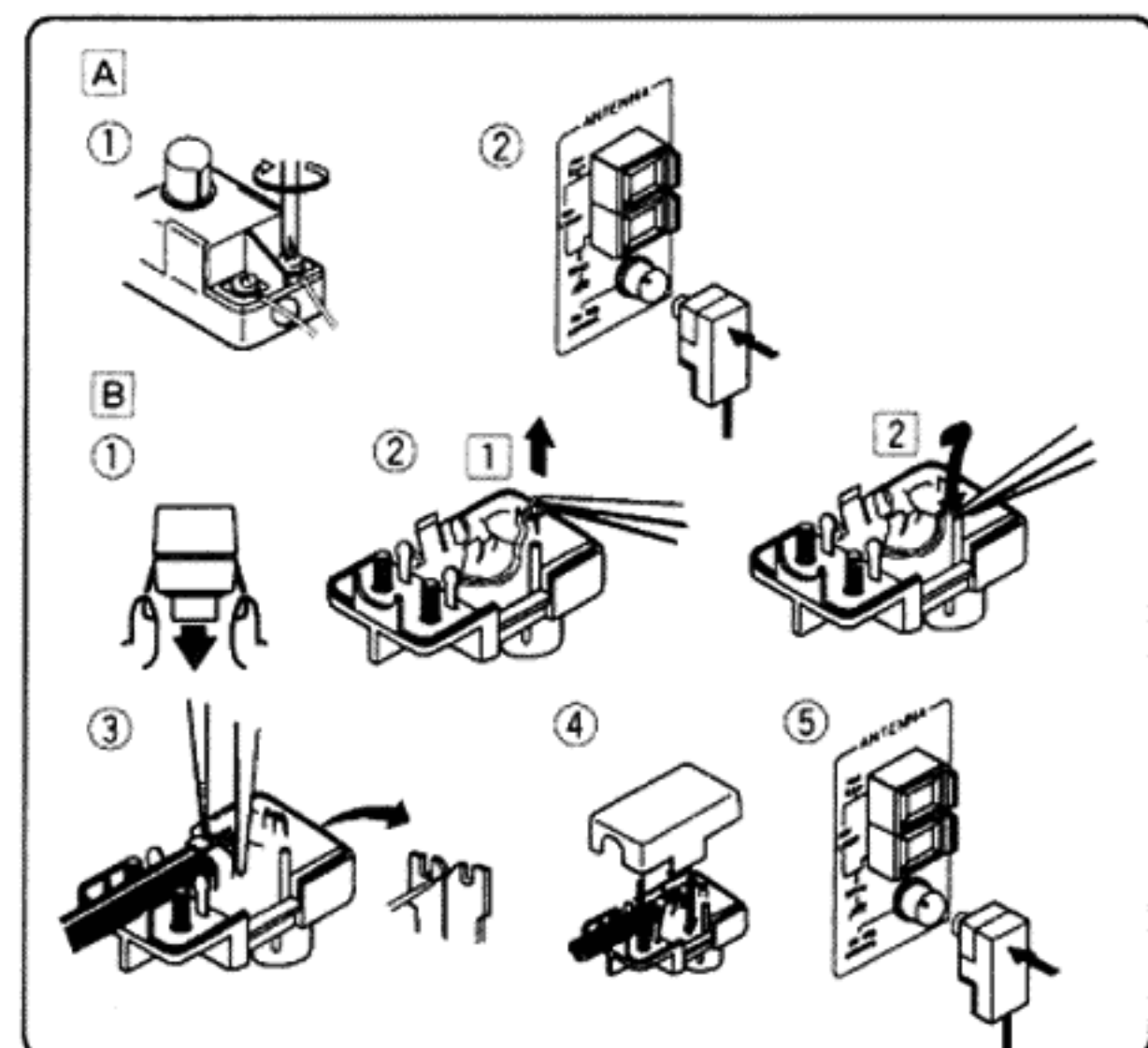


Antenna Adaptor

If anything is missing, contact your dealer immediately.

Connecting the FM and AM Antennas

FM Antenna Connections



A Using the supplied feeder antenna

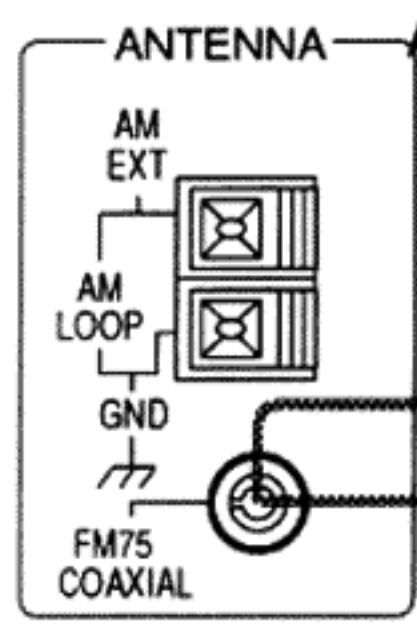
- ① Attach the feeder antenna to the supplied antenna adaptor as shown in the figure.
- ② Connect the antenna adaptor to the FM 75Ω COAXIAL terminal.

B Using FM 75-ohm antenna cable (not supplied)

- ① Open the claws at both sides and remove the cover.
- ② Move the conductor wire from ① to ② using tweezers or similar tool (only when using coaxial cable).
- ③ Fix the coaxial cable and its core.
- ④ Put on the cover.
- ⑤ Connect the supplied antenna adaptor to the FM 75Ω COAXIAL terminal.

Note:

Make sure the antenna conductors do not touch any other terminals, connecting cords and power cord. This could cause poor reception.

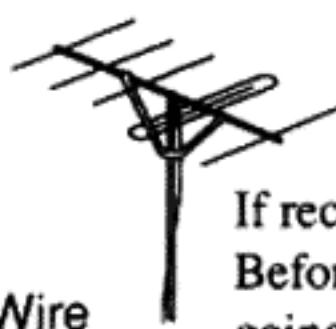


FM Feeder Antenna



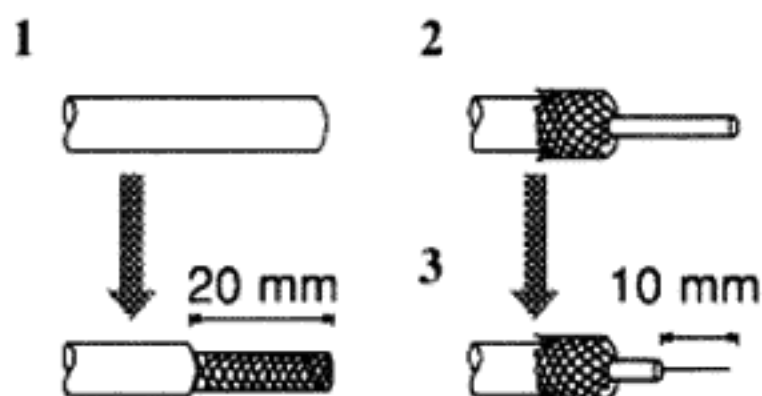
Unfold the loops of the supplied FM feeder antenna and extend them as shown. Fasten them up in the position which gives you the best FM reception.

Outside FM Antenna Wire



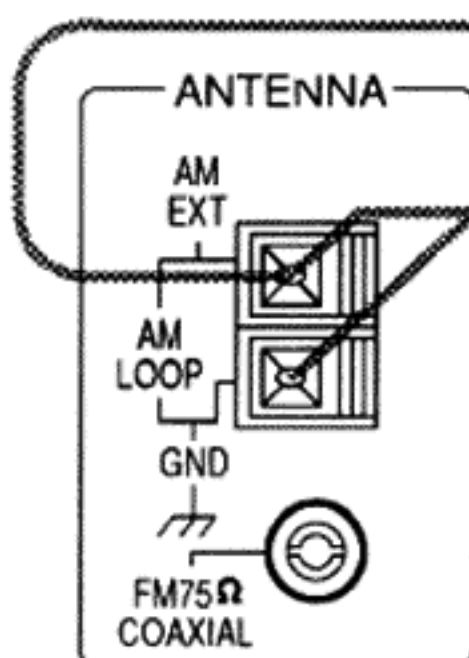
If reception is poor, connect the outside antenna. Before attaching a 75-ohm coaxial cable (the kind with a round wire going to an outside antenna), disconnect the supplied antenna.

How to strip the 75-ohm coaxial cable



1. Strip back the outside covering of the 75-ohm coaxial cable to expose the braided metallic mesh.
2. Pull the mesh back over the cable as shown.
3. Strip the insulation about 10 mm back from the central wire.
4. Attach to the supplied antenna adaptor, as shown in the diagram above.

AM Antenna Connections

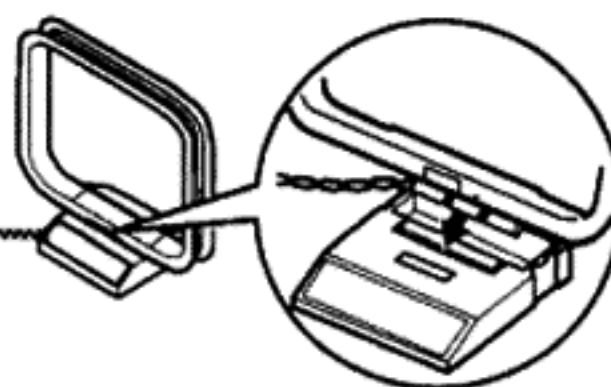


AM Wire Antenna

If reception is poor, connect an outdoor single vinyl-covered antenna to the terminal marked AM EXT.

Turn the loop until you have the best reception.

AM Loop Antenna



Snap the tabs on the loop into the slots of the base to assemble the AM loop.

Note :

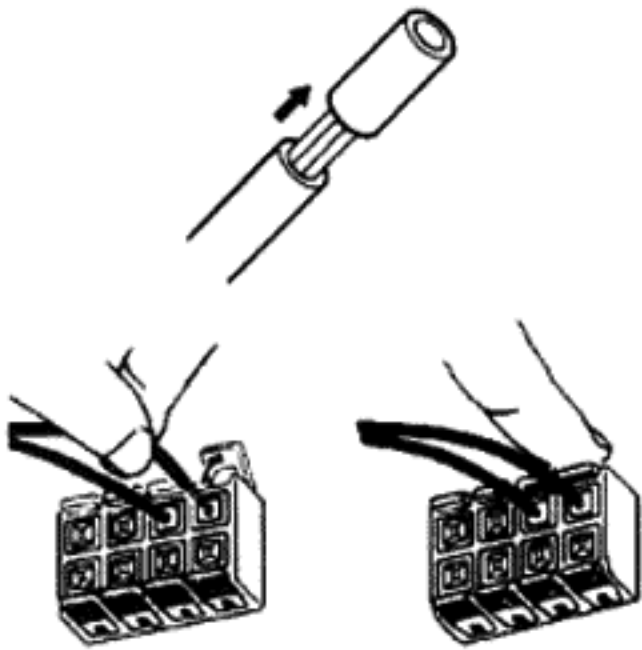
Even when connecting an outside AM antenna, keep the indoor AM loop antenna connected.

Connecting the Speakers

You can connect the following speakers:

- Two sets of front speakers to produce normal stereo sound
- One set of rear speakers to enjoy the surround effect
- One center speaker to produce more effective surround effect

For each speaker, connect one end of the speaker signal cable (not supplied) to the speaker terminal on the rear panel and the other end to the speaker.



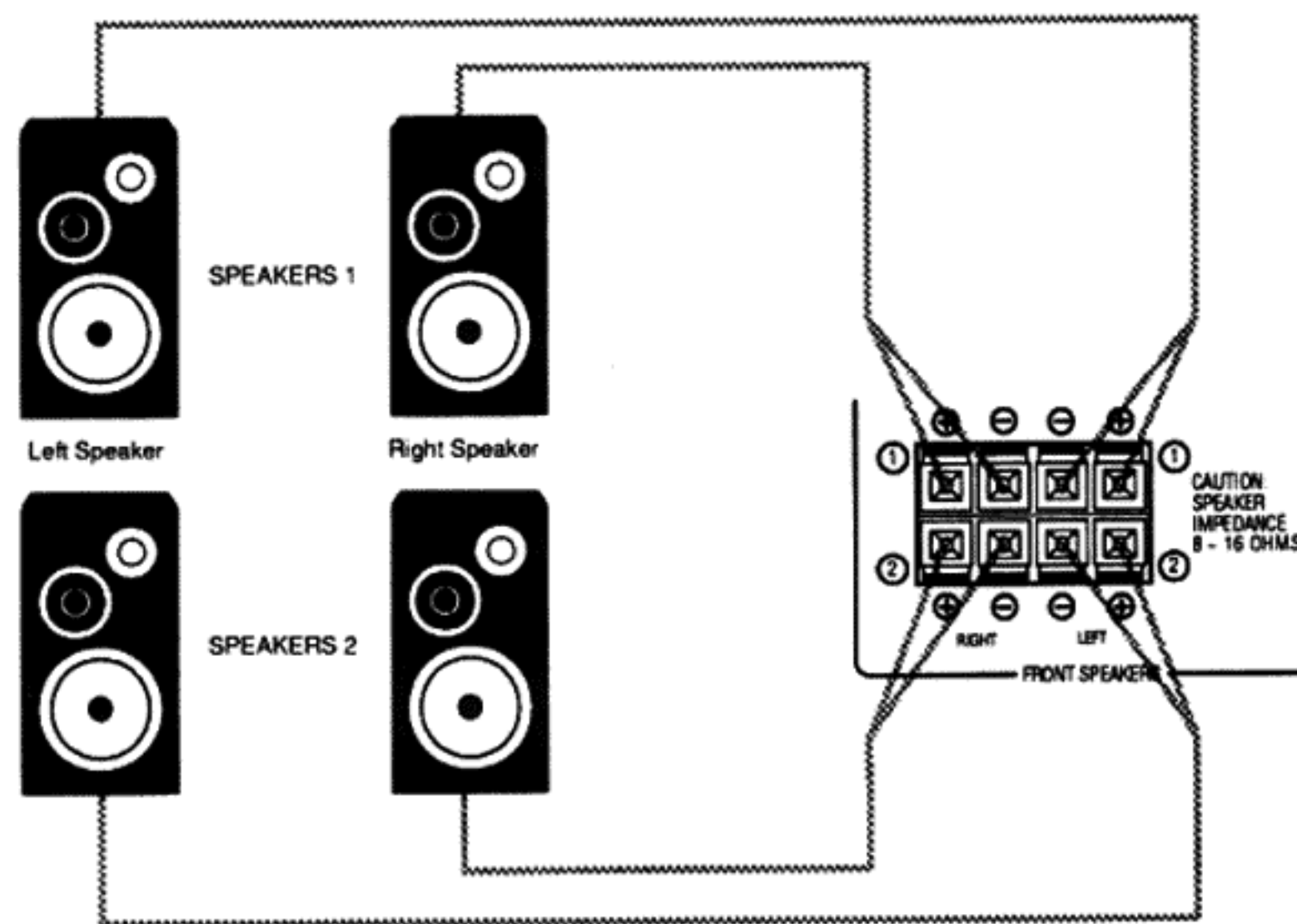
1. Open each terminal.
2. Insert the end of the speaker signal cable as shown (be sure to remove the insulation at the end of each wire first).
3. Close the terminals to clamp the speaker signal cables firmly in place.
4. Connect the black (-) and red (+) terminals on the rear panel to the black (-) and red (+) terminals marked on the speakers.

CAUTION:

Use speakers with the same impedance as marked near the terminals on the rear panel.

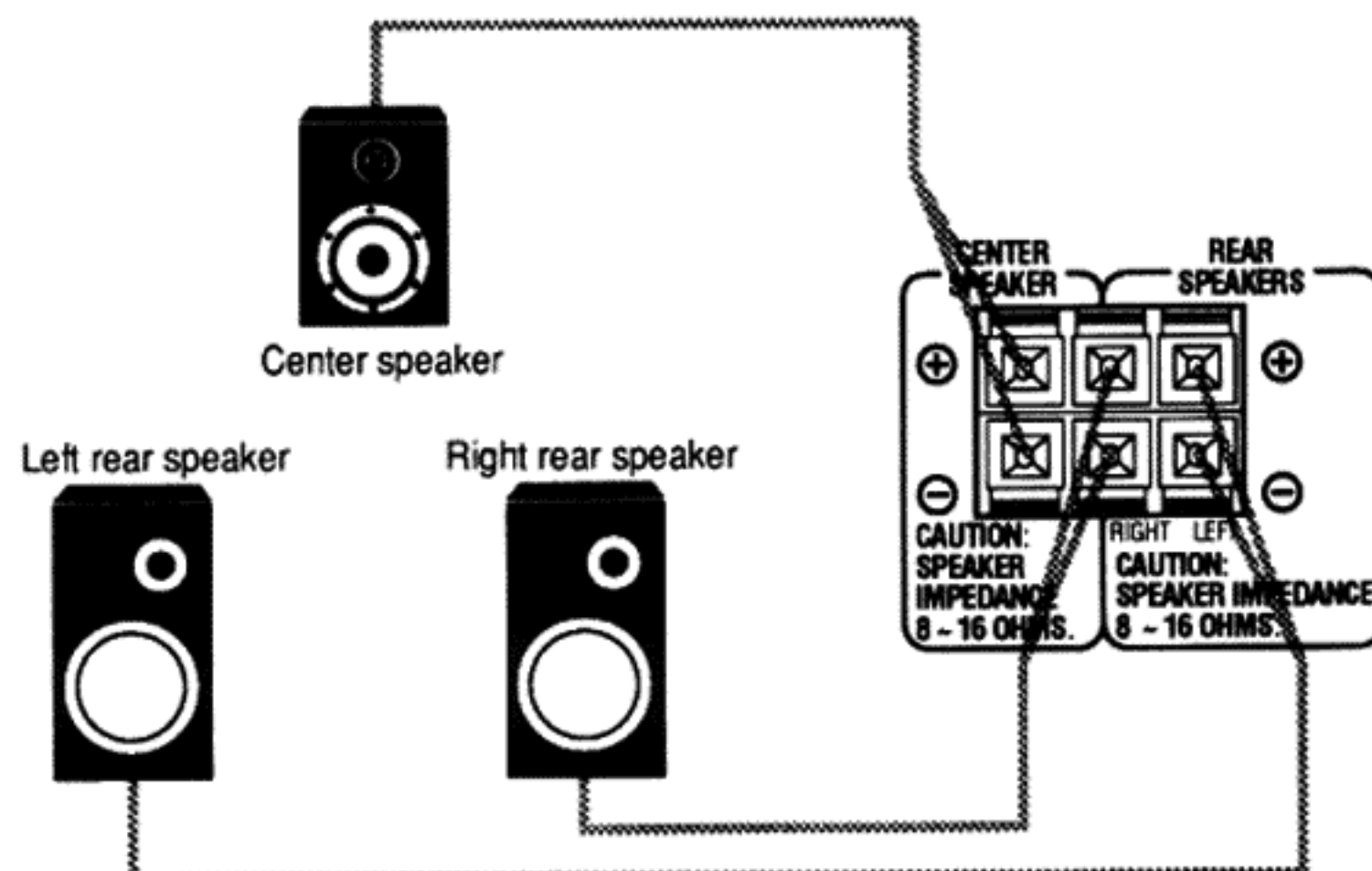
Connecting the front speakers

Connect the front speakers to the FRONT SPEAKERS terminals.



Connecting the rear and center speakers

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



Note:

When you connect rear speakers, make sure that both left and right speakers are connected; otherwise, no sound will come out of the rear speakers.

CAUTION:

When connecting speakers, use speakers with the same **SPEAKER IMPEDANCE** indicated by the speaker terminals.

Note:

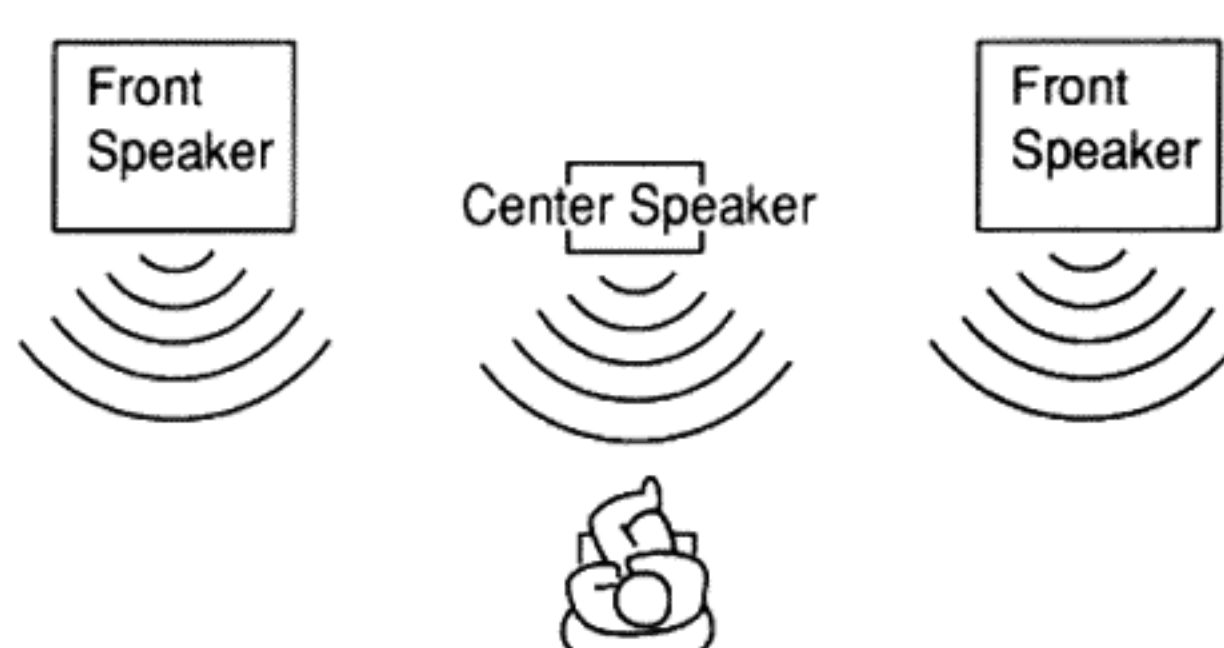
The required speaker impedance of the front speakers does not differ depending on whether both the **FRONT SPEAKERS ①** and **FRONT SPEAKERS ②** terminals are used or only one of them is used.

CASE 1 When you connect only front speakers



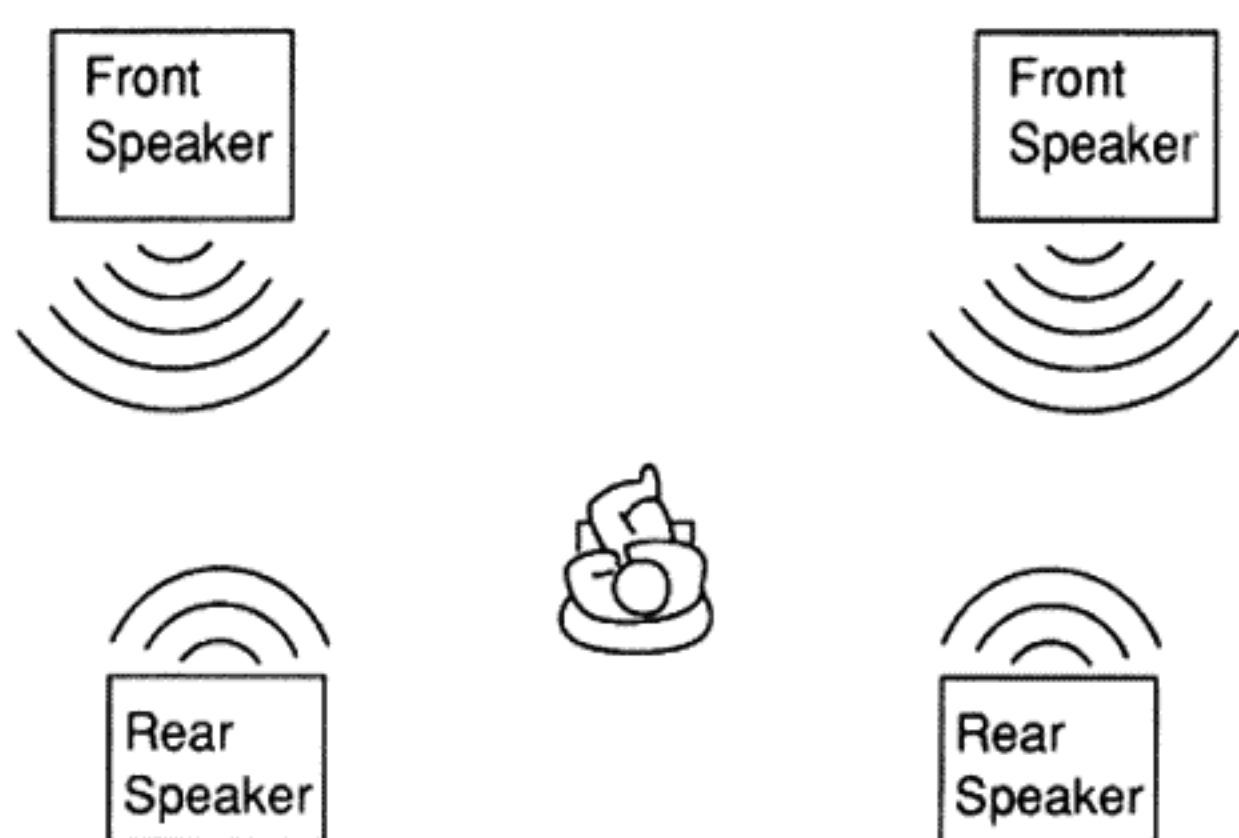
Use front speakers with **8 — 16 ohm** impedance.

CASE 2 When you connect front speakers and a center speaker



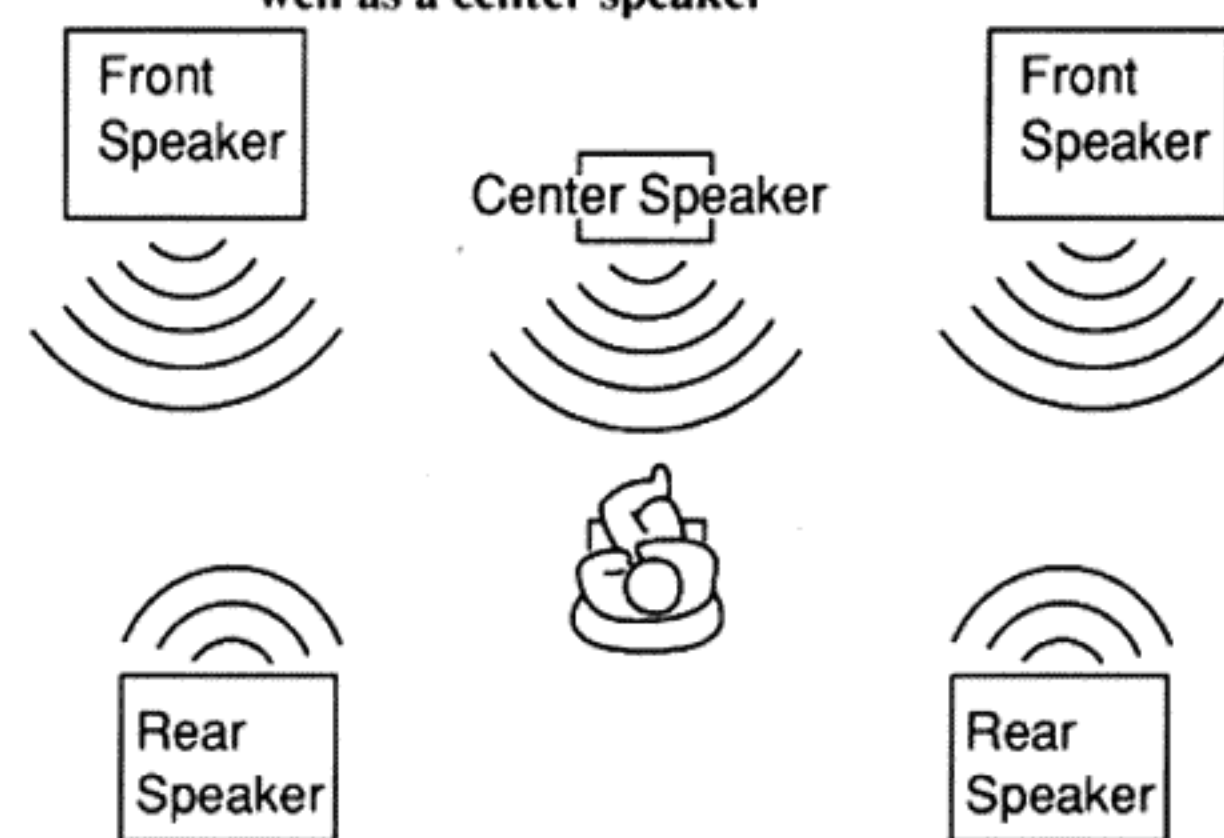
Use the following speakers:
• Front speakers: **8 — 16 ohm** impedance
• Center speaker: **8 — 16 ohm** impedance

CASE 3 When you connect front and rear speakers



Use the following speakers;
• Front speakers: **8 — 16 ohm** impedance
• Rear speakers: **8 — 16 ohm** impedance

CASE 4 When you connect front and rear speakers as well as a center speaker



Use the following speakers;
• Front speakers: **8 — 16 ohm** impedance
• Rear speakers: **8 — 16 ohm** impedance
• Center speaker: **8 — 16 ohm** impedance

Connecting Audio/Video Components

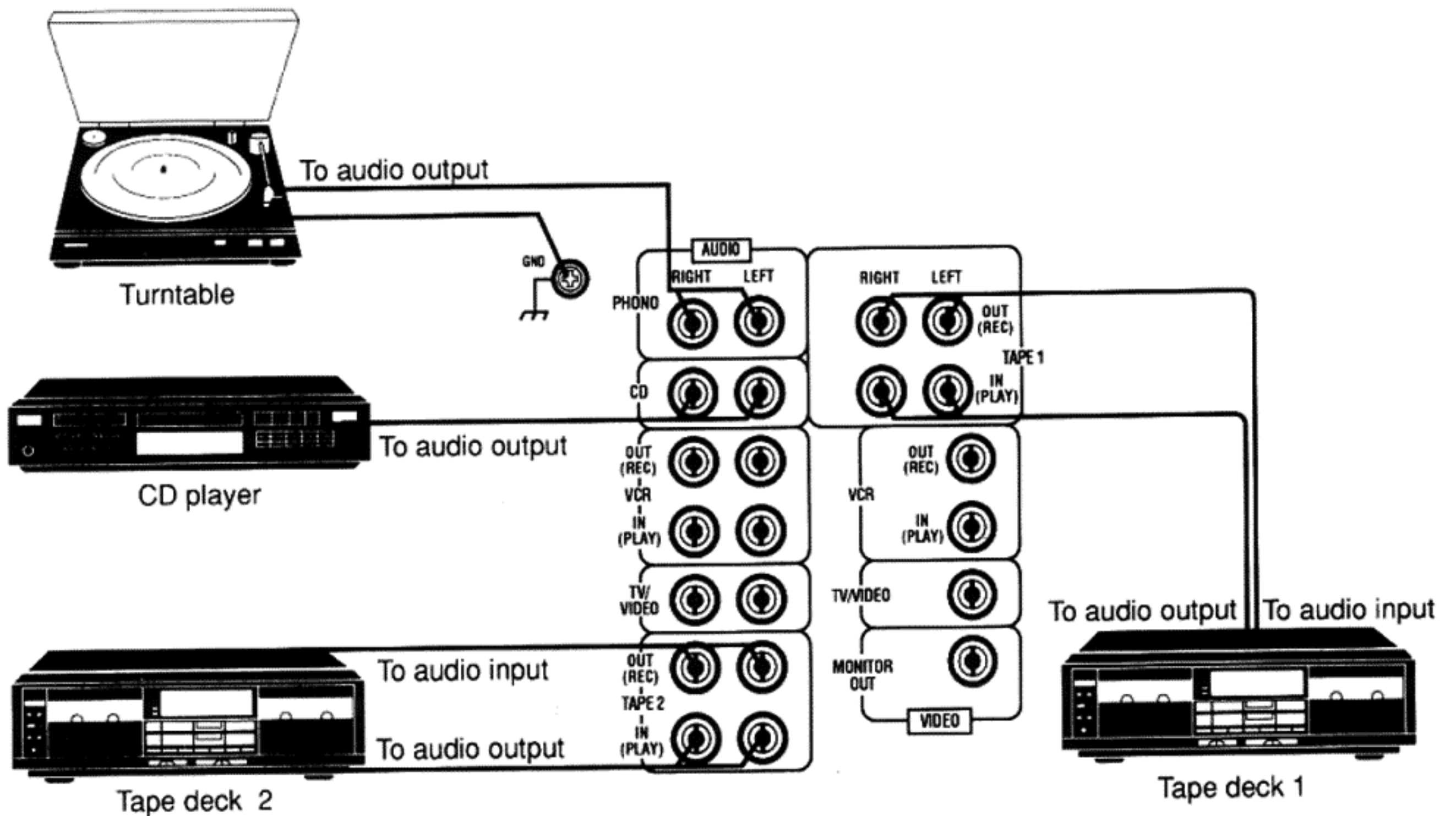
You can connect the following components to the receiver using cables with RCA pin plugs.

Audio Components	Video Components
• Turntable	• VCR
• CD player	• Video disc player
• Tape deck(s)	• TV

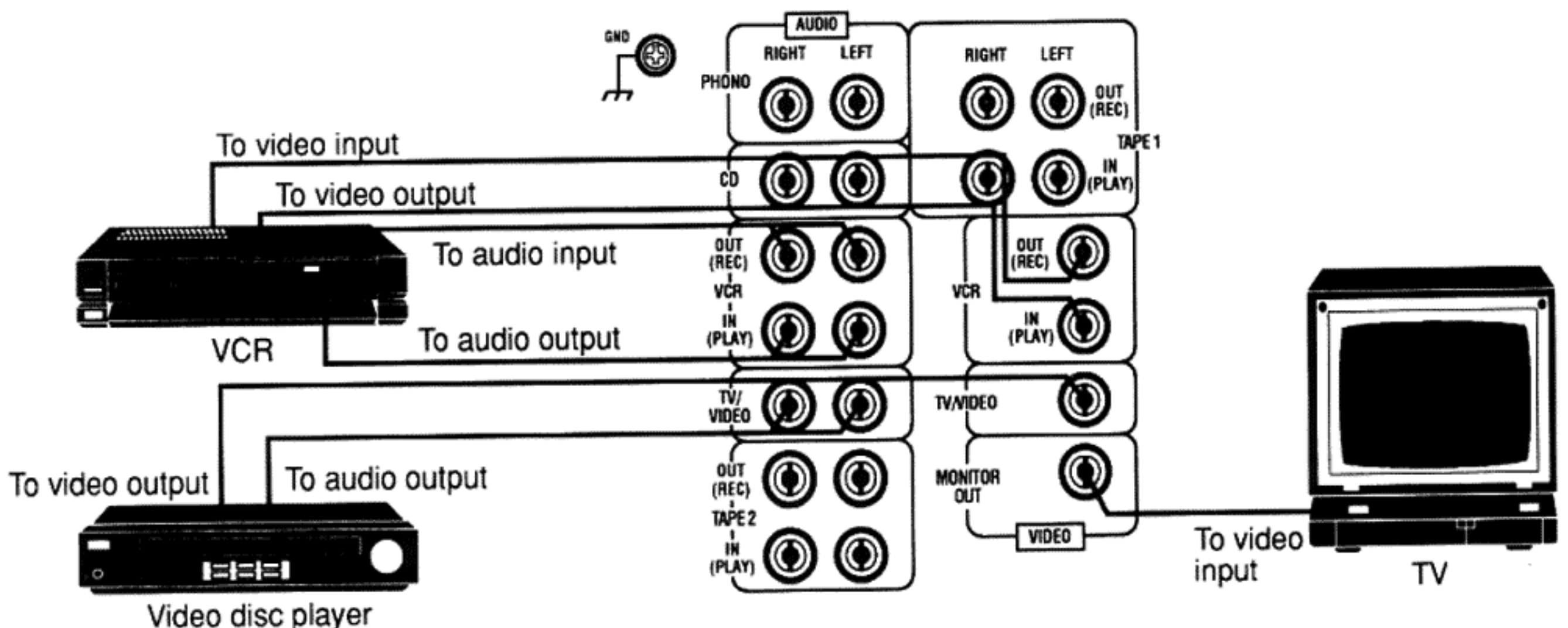
Notes:

- Both plugs and jacks are color-coded; the red ones are for right audio signals, the white ones for left audio signals, and yellow ones for video signals.
- Any turntables incorporating a small-output cartridge such as an MC (moving-coil type) must be connected to this amplifier through a commercial head amplifier or step-up transformer. Direct connection may result in insufficient volume.
- If a ground cable is provided for your turntable, connect the cable to the screw marked GND on the rear panel.

Audio component connections



Video component connections



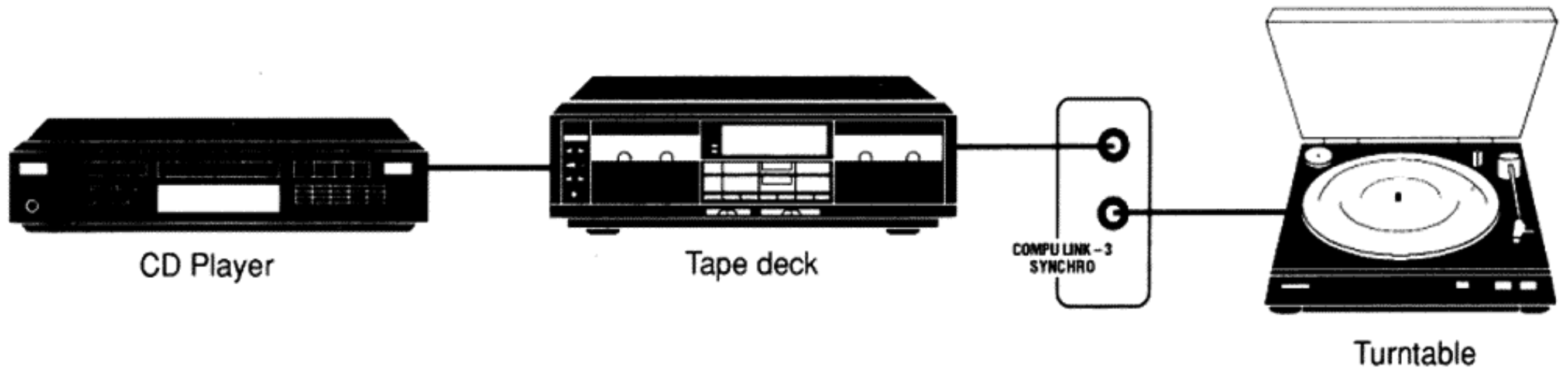
Connecting Audio Components for the COMPU LINK-3 Remote Control System

The COMPU LINK-3 remote control system allows you to control other JVC audio components from the RX-517VTN or vice versa. To use this system, connect your JVC audio components and the RX-517VTN with the cable (monaural mini-plug) supplied with those components.

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 in the diagram below)

Notes:

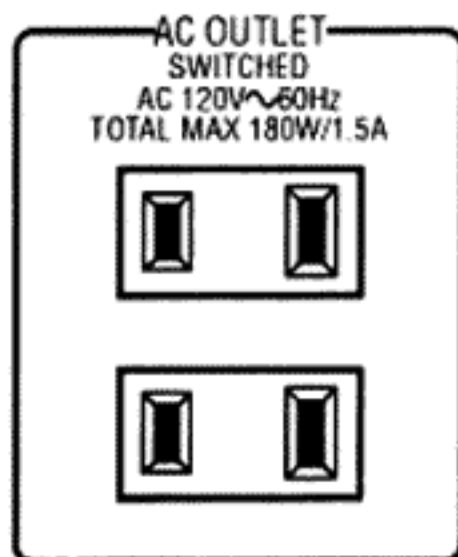
- The COMPU LINK-3 remote control system is the upgraded version of the COMPU LINK-1 and COMPU LINK-2. Even if your components has the COMPU LINK-1 or COMPU LINK-2 jacks, you can still connect it in the COMPU LINK-3 remote control system, but some functions may not work correctly.
- For more information about the COMPU LINK-3 (-1 and -2) remote control system, see page 23.



CAUTION:

The COMPU LINK-3 remote control system cannot control the tape deck connected to the TAPE2 jacks. Use only the tape deck connected to the TAPE1 jacks.

Power Supply through the RX-517VTN to Connected Components



You can use the AC outlets on the rear of the RX-517VTN to supply power to audio components.

These AC outlet are "switched" outlets. So when the RX-517VTN is off (that is, in standby mode), power is not supplied through these outlets. By turning the RX-517VTN on and off, you can turn the connected components on and off at the same time.

Note:

Do not use the AC outlets on the rear of the RX-517VTN to supply power to the components in the COMPU LINK remote control system; otherwise, the COMPU LINK remote control system may not work correctly.

CAUTION:

Do not plug the components to the AC outlets on the rear if their total power consumption is greater than indicated by the AC outlets.

Connecting the Power Cord

Before plugging the RX-517VTN into an AC outlet, make sure that all connections have been made. When the power cord is connected, the STANDBY indicator above the POWER button lights up.

Keep the power cord away from the connecting cables for the TV, VCR, and 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.

Notes:

- A small amount of power is always consumed even in standby mode. To switch off the power completely, unplug the power cord from the AC outlet.
- If the power cord is unplugged or a power failure occurs, preset settings will be erased in a few days.

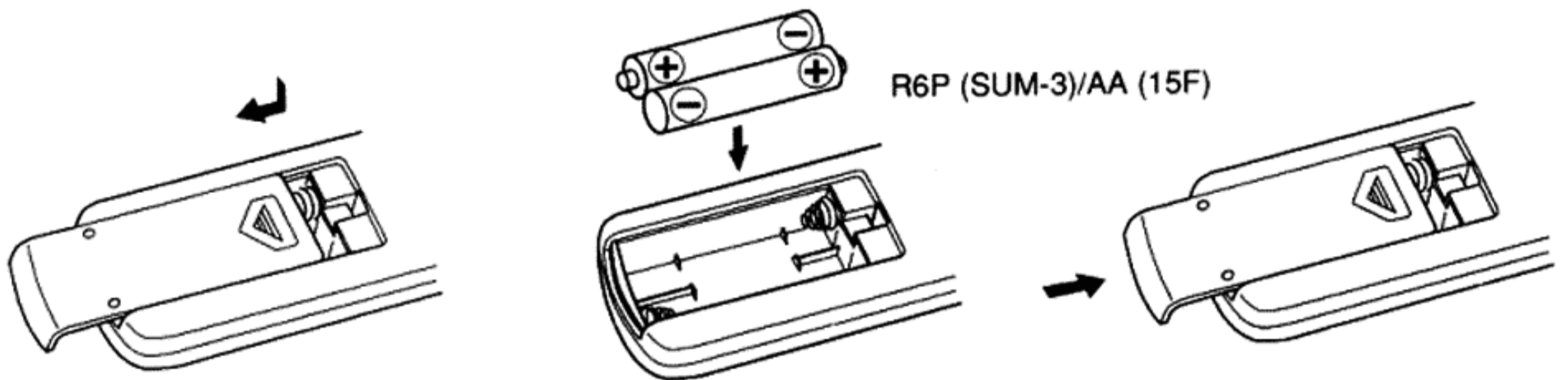
CAUTIONS:

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

Putting Batteries in the Remote Control

Before using the remote control, put two supplied batteries first.

1. On the back of the remote control, press down on the battery cover and slide it out.
2. Insert batteries. Make sure to observe the proper polarity: (+) to (+) and (-) to (-).
3. Slide the cover in.



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

CAUTIONS:

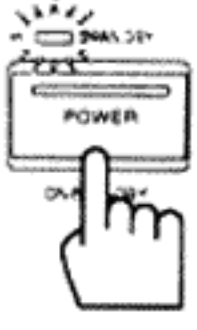
Follow these precautions to avoid leaking or cracking cells:

- 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



On the front panel



From the remote control

To turn on the power, press the POWER button on the front panel or the AUDIO button on the remote control. The STANDBY indicator goes off.

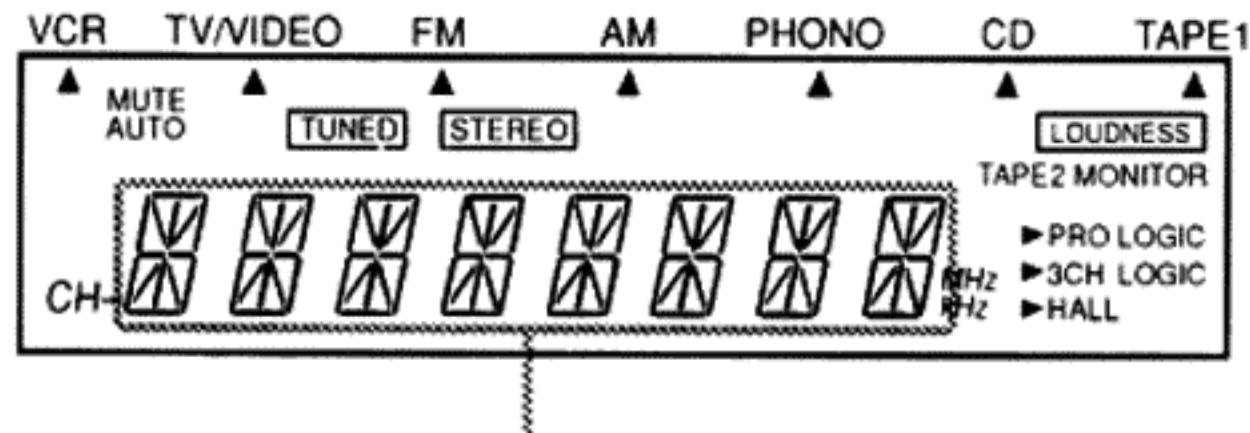
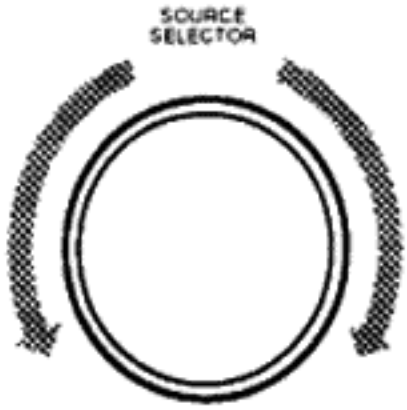
To turn off the power, press the POWER button or AUDIO button on the remote control again. The STANDBY indicator lights up.

Selecting the Source to Play

You need to select the source to listen to before you start playing any source.

On the front panel:

Turn the SOURCE SELECTOR so that the desired source name appears on the display (at the same time the arrow (▲) on the display points the source).



Selected source name appears

VCR	View the video component connected to the VCR jacks.
TV/VIDEO	View the video component connected to the TV/VIDEO jacks.
FM	Listen to an FM broadcast.
AM	Listen to an AM broadcast.
PHONO	Listen to a record.
CD	Listen to the CD player.
TAPE1	Listen to the tape deck connected to the TAPE1 jacks.

To listen to the tape deck connected to the TAPE2 jacks, press the TAPE2 MONITOR button (or TAPE2 button on the remote control) so that the TAPE2 MONITOR indicators light up on the display and on the front panel.

However, do not press the TAPE2 MONITOR (or TAPE2) button if no component is connected to the TAPE2 jacks; otherwise, no sound comes out of the speakers.

From the remote control:

Press the desired source selecting buttons.

VCR	View the video component connected to the VCR jacks.
TV/VIDEO	View the video component connected to the TV/VIDEO jacks.
FM/AM*	Listen to an FM or AM broadcast. Each time you press the button, the band alternates between FM and AM.
PHONO*	Listen to a record.
CD*	Listen to the CD player.
TAPE1*	Listen to the tape deck connected to the TAPE1 jacks.
TAPE2	Listen to the tape deck connected to the TAPE2 jacks.

Notes:

- The TAPE2 MONITOR button on the front panel and the TAPE2 button on the remote control have a different function from other source selecting buttons, since this button allows you to monitor the recording. For more details, see "Recording Monitor" on page 21.

* When you press one of the source selecting buttons marked above with an asterisk, the RX-517VTN automatically turns on.

Selecting the Front Speakers

When you have connected two sets of front speakers, you can select which to use. Pressing in the SPEAKERS 1 or SPEAKERS 2 button activates the respective set of speakers.



To use the set of speakers connected to the FRONT SPEAKERS ① terminals, press in the SPEAKERS 1 button (ON), and press out the SPEAKERS 2 button (OFF).

To use the set of speakers connected to the FRONT SPEAKERS ② terminals, press in the SPEAKERS 2 button (ON), and press out the SPEAKERS 1 button (OFF).

To use both sets of speakers, press in both the SPEAKERS 1 and 2 buttons (ON).

To use neither set of speakers, press out both the SPEAKERS 1 and 2 buttons (OFF).

Note:

When only one set of the front speakers is connected to either the FRONT SPEAKERS ① or ② terminals, do not press in both SPEAKERS 1 and 2 buttons (ON). If you do, no sound comes out of the front speakers.

Adjusting the Volume



On the front panel



From the remote control

On the front panel:

To increase the volume, turn the MASTER VOLUME control clockwise.

To decrease the volume, turn it counterclockwise.

From the remote control:

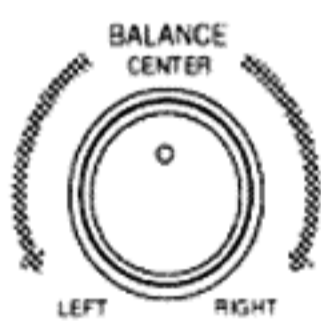
To increase the volume, press the VOLUME + button.

To decrease the volume, press the VOLUME - button.

CAUTION:

Always set the MASTER VOLUME control to the minimum before starting any source. If the MASTER VOLUME control is left turned up, the sudden blast of sound energy can permanently damage your hearing and/or ruin your speakers.

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 with the BALANCE control.

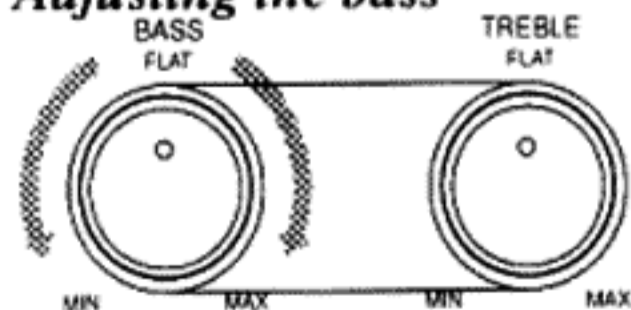
To decrease the left channel sound, turn the BALANCE control clockwise.

To decrease the right channel sound, turn it counterclockwise.

Adjusting the Tone

You can increase or decrease the amount of bass and treble reinforcement.

Adjusting the bass

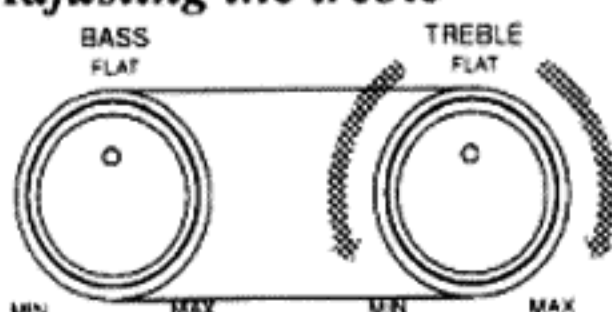


To increase the bass reinforcement, turn the BASS control clockwise.

To decrease the bass reinforcement, turn it counterclockwise.

When set to the FLAT position, no bass reinforcement is applied.

Adjusting the treble



To increase the treble reinforcement, turn the TREBLE control clockwise.

To decrease the treble reinforcement, turn it counterclockwise.

When set to the FLAT position, no treble reinforcement is applied.

Listening at Low Volume (Loudness)

Human ears are not sensitive to bass at low volume. To compensate for this, the loudness function automatically boosts the bass level as you lower the volume.



To use the loudness function, press the LOUDNESS button. The LOUDNESS indicator lights up on the display.

To turn the function off, press the LOUDNESS button again. The LOUDNESS indicator goes off.

Recording a Source

You can record any source playing through the RX-517VTN to the tape decks connected to the TAPE1 and TAPE2 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 and tone settings you like, without affecting the sound levels of the recording.

Notes:

- When recording from the tape deck connected to the TAPE2 jacks to the one connected to TAPE1, press TAPE2 MONITOR button and select a source other than TAPE1.
- The output volume level, tone adjustments, as well as surround effects cannot affect the recording.
- See also "Recording Monitor" on page 21.

Listening with Headphones

A standard pair of headphones can be connected to the PHONES jack on the front panel. **Be sure to turn down the volume before connecting or putting on headphones, as high volume can damage both the headphones and your hearing.**

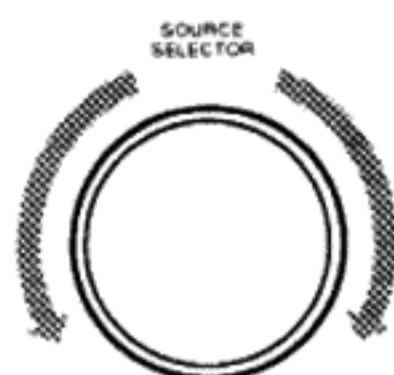
To listen with only headphones

Press out both the SPEAKERS 1 and 2 buttons (■OFF).

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



1. Select the band.

On the front panel:

Turn the SOURCE SELECTOR.

From the remote control:

Press the FM/AM button so that the last received station of the last received band is tuned in. Each time you press the button, the band alternates between FM and AM.

Note:

If you do not see a preset channel number on the display, the RX-517VTN is already in the manual tuning mode, and then skip Step 2 below.

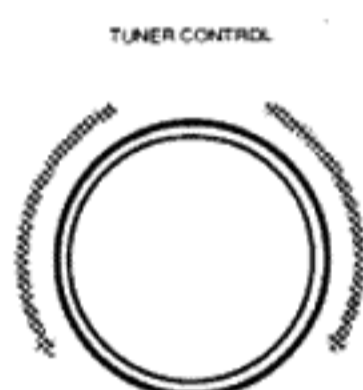


2. Press the TUNING button to set the tuning mode to the manual mode.

3. Turn the TUNER CONTROL clockwise or counterclockwise.

Turning it clockwise increases the frequency.

Turning it counterclockwise decreases the frequency.



Notes:

- When you turn the TUNER CONTROL fast, the frequency keeps changing until you turn the TUNER CONTROL again or 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 the Preset Tuning

Once a station is assigned to a channel number, the station can be quickly tuned. You can preset up to 40 stations at random.

Storing the preset stations



1. Tune in the station you want to preset (see above).

2. Press the ENTER button.

“CH- — —” appears on the display for 5 seconds.

3. Select a channel number within the 5 seconds.

On the front panel:

Turn the TUNER CONTROL

From the remote control:

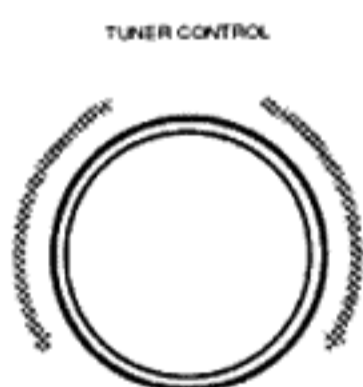
Press the +10 button and the 10 keys.

Examples: For channel number 5, press 5. For channel number 15, press +10 then 5.

For channel number 20, press +10 then 10.

Note:

When you use the remote control, be sure that the +10 button and the 10 keys are activated for tuner, not for the CD. (See page 22.)



4. Press the ENTER button again while the selected channel number is blinking on the display.

The selected channel number stops blinking, and the station is assigned to the selected channel number.

To cancel a stored preset station

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

CAUTION:

Preset stations may be erased when power is cut off to the RX-517VTN, as when it is unplugged from the AC outlet or a power failure occurs. If the preset stations are lost, simply set the stations again using the above procedure.

Tuning in a Preset Station



On the front panel:

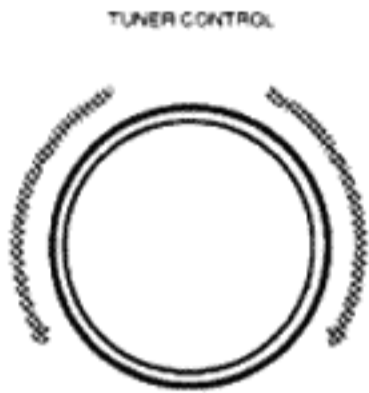
1. Turn the **SOURCE SELECTOR** to select either FM or AM.
The last received station of the selected band is tuned in.

Note:

If you see a preset channel number on the display, the RX-517VTN is already in the preset tuning mode, and then skip Step 2 below.



2. Press the **PRESET** button to set the tuning mode to the preset mode.
3. Turn the **TUNER CONTROL** to select a preset channel number.
Turning it clockwise changes preset channels in increasing order.
Turning it counterclockwise changes preset channels in decreasing order.



On the remote control:

1. Press the **FM/AM** button.
Press the FM/AM button so that the last received station of the last selected band is tuned in.
Each time you press the button, the band alternates between FM and AM.
2. Press the **+10** button and the **10** keys to select a preset channel number.
Examples: For channel number 5, press 5. For channel number 15, press +10 then 5.
For channel number 20, press +10 then 10.

Note:

When you use the remote control, be sure that the +10 button and the 10 keys are activated for tuner, not for the CD. (See page 22.)

Selecting the FM Reception Mode

You can change the FM reception mode so that reception will be improved.



When an FM stereo broadcast is hard to receive or noisy

Press the FM MODE/MUTE button on the front panel. The MUTE AUTO indicator goes off on the display. Reception will be improved although you will lose the stereo effect. In this mode, you will hear noise while tuning into the stations.

To restore stereo effect

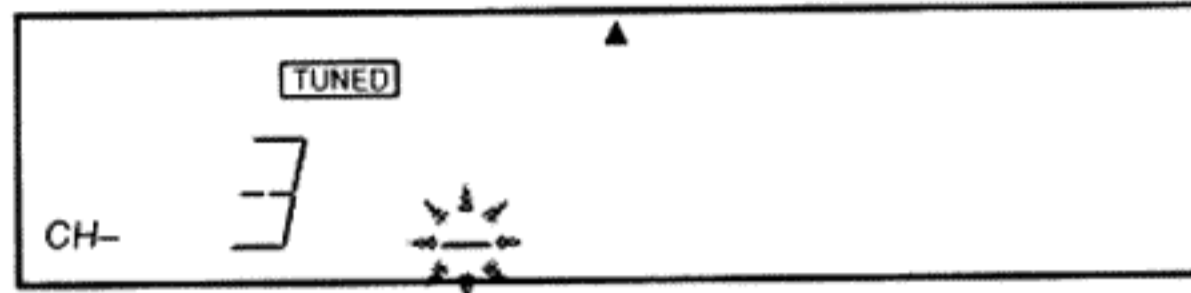
Press the FM MODE/MUTE button again so that the MUTE AUTO indicator lights up on the display. In this mode, when a program is broadcast in stereo, you will hear stereo sound; when in monaural, you will hear monaural sounds. This mode is also useful to suppress static noise between stations.

Assigning Names to Preset Stations

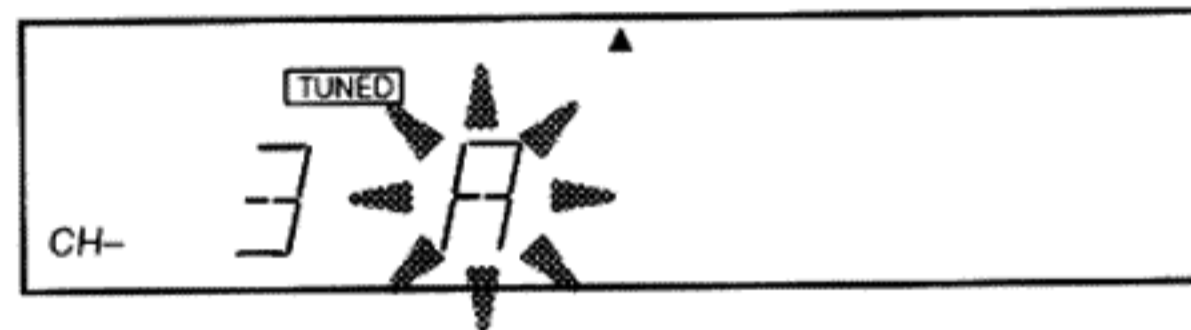
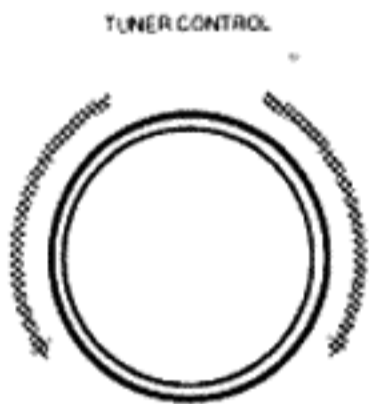
You can assign a name of up to four character to each preset station (from channel number 1 to 20). When a preset station is tuned in, its assigned name will appear on the display.

On the front panel only:

1. **Tune in a preset station (channel number 1 to 20).**
See page 14 for details.
2. **Press the CHARACTER button.**
The cursor appears at the first character position.



3. **Turn the TUNER CONTROL to select a character for the first position.**
You can use characters listed below



4. **When the character you want appears, press the CHARACTER button.**
The cursor moves to the next character position.



5. **Repeat Steps 3 and 4 to enter up to four characters.**
6. **Press the ENTER button after you have assigned a name.**



Available characters

TUNER CONTROL

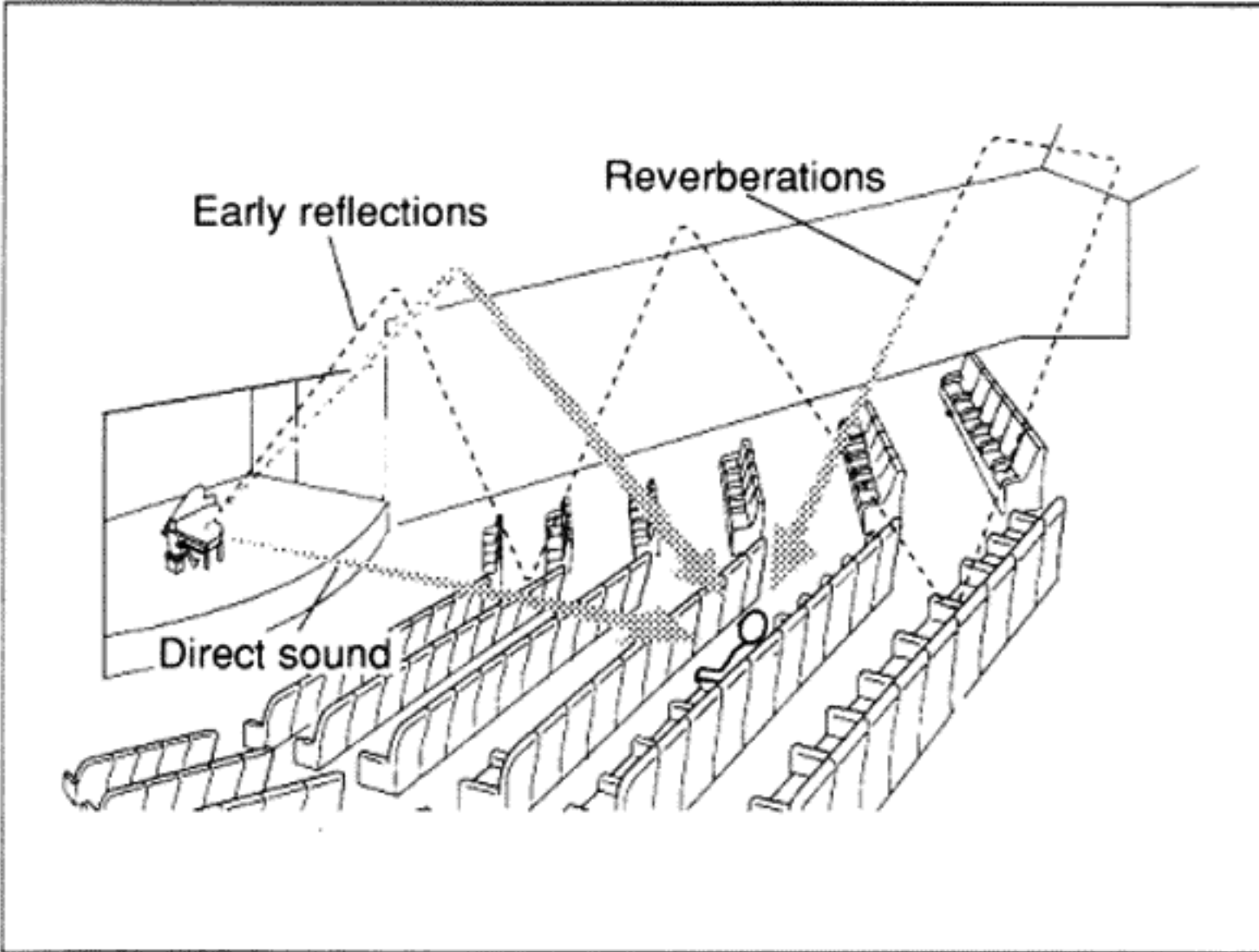
BLANK	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
	P	Q	R	S	T	U	V	W	X	Y	Z	0	1	2	3	4
	5	6	7	8	9	/	*	+	-	<	>					

Using the Surround Processor

The built-in surround processor provides three types of sound programs — Dolby Pro Logic, Dolby 3-Channel Logic, and JVC's Hall Surround.

What is surround?

The sound heard in a concert hall or a movie theater consists of direct sound and indirect sound: early reflections and reverberations. The reflected sound and the reverberations are always delayed by the distances of the ceiling and walls from the listener. The early reflections and reverberations are some of the most important elements of the acoustic surround.

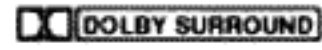


On JVC's Hall Surround

In order to reproduce a more realistic sound field in your listening room while playing an ordinary stereo source, JVC's Hall Surround has been designed to give you clear vocals and to create the feeling of a concert hall. The sound is reproduced through the front speakers and rear speakers.

On Dolby Surround

The Dolby Surround has been also 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 RX-517VTN can provide you with 2 Dolby Surround programs (Dolby Pro Logic and Dolby 3ch Logic).

Dolby Pro Logic: Select this mode when the optional rear speakers are connected.

Dolby 3ch Logic: Select this mode when no rear speakers are connected.

* Manufactured under license from Dolby Laboratories Licensing Corporation. DOLBY and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Notes:

- The surround processor has no effect on monaural sources.
- The surround processor cannot be used for recording.

Using JVC's Hall Surround

You need to connect one set of rear speakers to obtain the full effect.



On the front panel:

1. Press **SURROUND ON/OFF** button.
One of the surround program indicators (PRO LOGIC, 3CH LOGIC, or HALL) lights up on the display.
2. Press **HALL**.



From the remote control:

1. Press the **ON/OFF** button on the **SURROUND** section.
One of the surround program indicators lights up.
2. Press the **MODE** button on the **SURROUND** section repeatedly until the **HALL** indicator lights up on the display.

To cancel the Hall Surround, press the SURROUND ON/OFF button (or the ON/OFF button on the remote control) again.

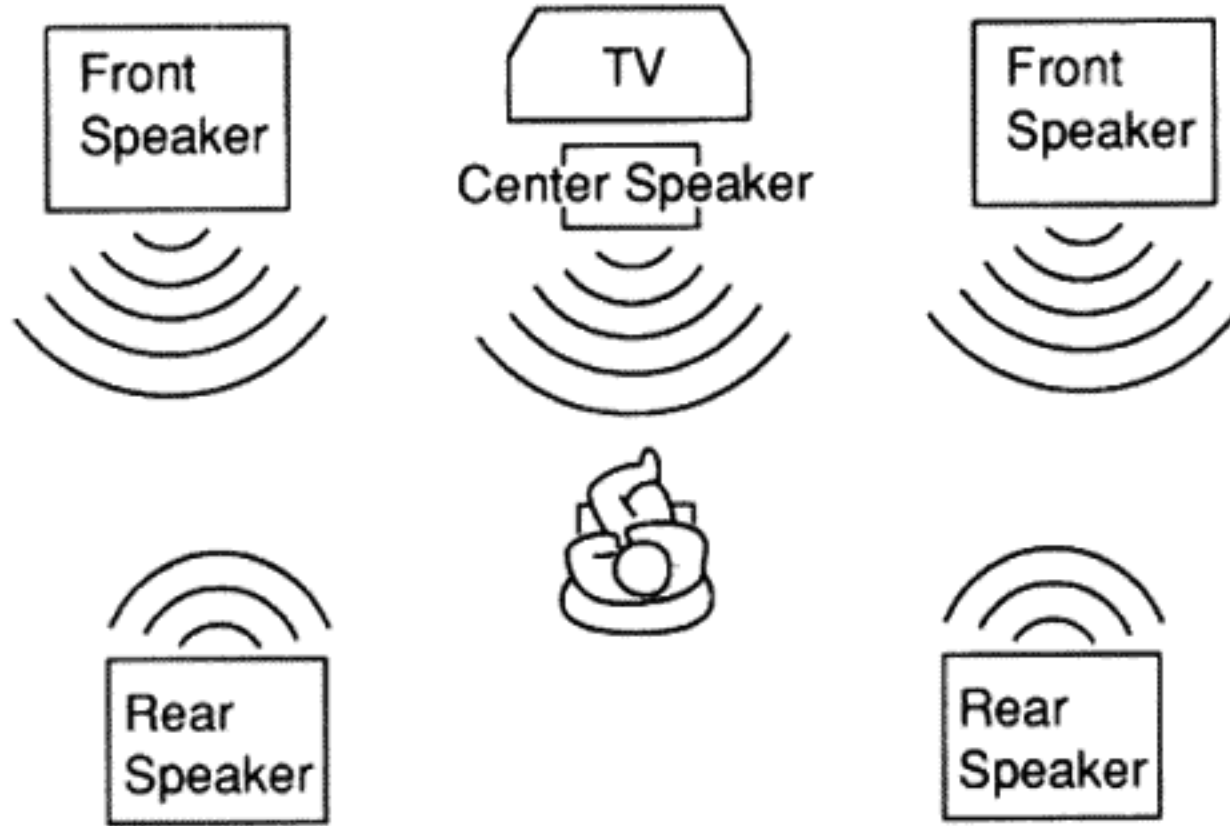
Note:

You can also adjust the delay time (see Step 4 on page 18) and the sound level of the rear speakers (see Step 6 on page 19) for Hall Surround. Once you have adjusted the delay time for the Hall Surround, the RX-517VTN memorizes the setting.

Speaker arrangements for Dolby Surround

The following illustrations show how to obtain the optimum sound environment for various Dolby Surround settings. Try to find the speaker direction and location to create the optimum sound field.

CASE 1 When you have added a center speaker and rear speakers

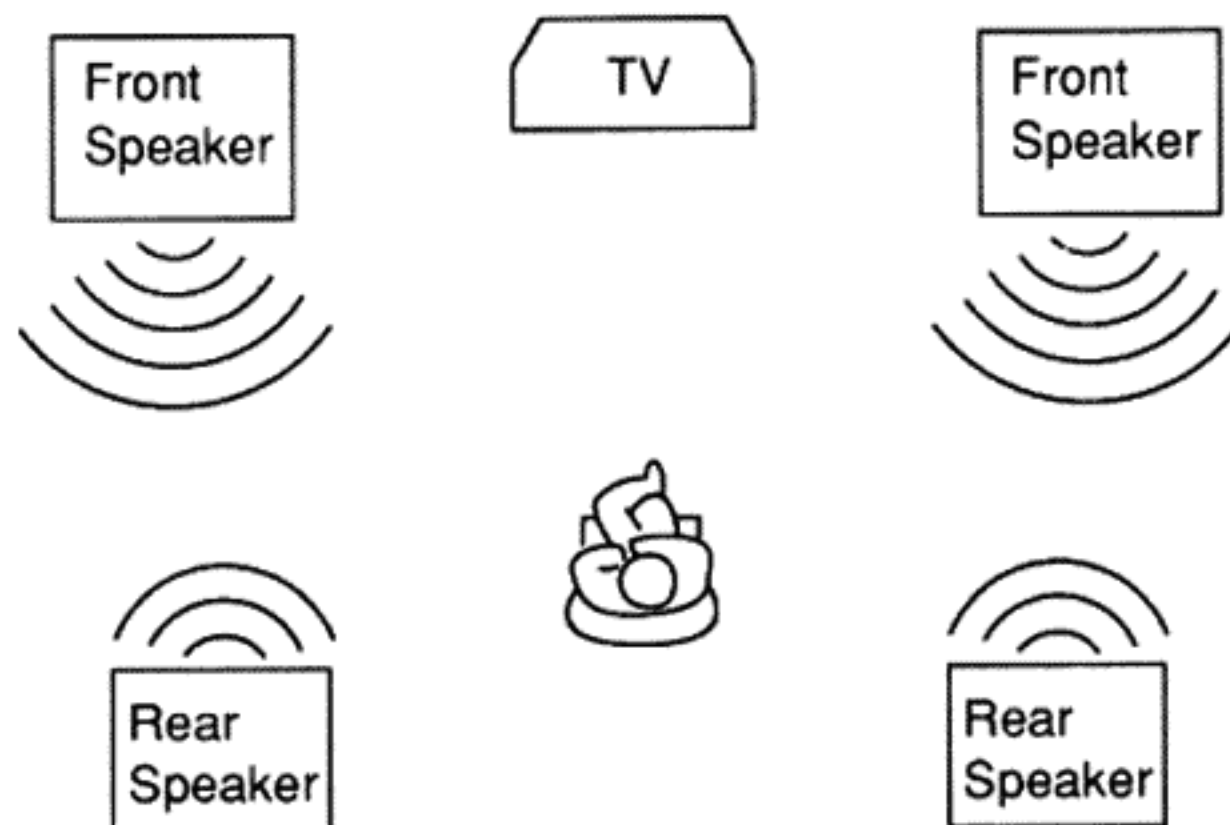


In this case:

1. Select PRO LOGIC.
2. Select NORMAL or WIDE for center mode.

See page 18 for more details.

CASE 2 When you have added rear speakers

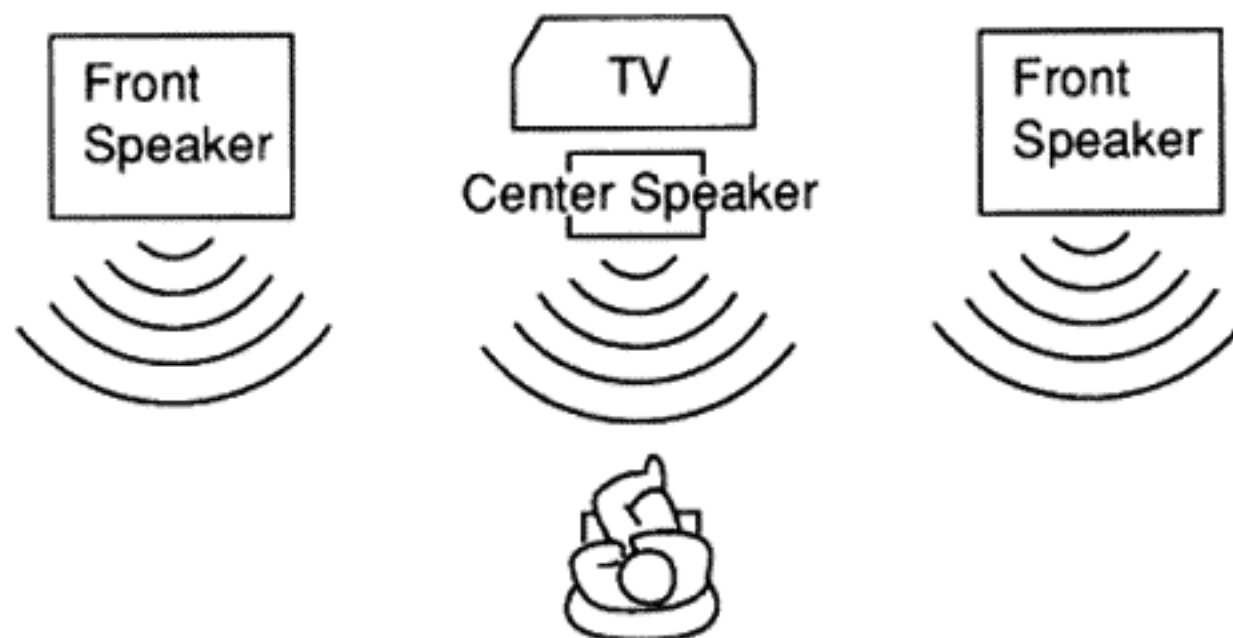


In this case:

1. Select PRO LOGIC.
2. Select PHANTOM for center mode.

See page 18 for more details.

CASE 3 When you have added a center speaker (without rear speakers)



In this case:

1. Select 3CH LOGIC.
2. Select NORMAL or WIDE for center mode.

See page 18 for more details.

Preparing for the Dolby Surround

The RX-517VTN memorizes two sets of Dolby Surround adjustments; one for Pro Logic and the other for 3ch Logic. However, the sound levels of center and rear speakers cannot be stored separately.



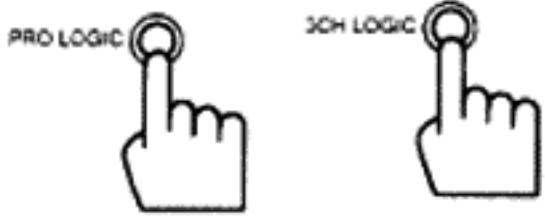
1. Set the surround mode on.

On the front panel:

Press the SURROUND ON/OFF button so that one of the surround program indicators lights up on the display.

From the remote control:

Press the ON/OFF button on the SURROUND section so that one of the surround program indicators lights up on the display.



2. Select either PRO LOGIC or 3CH LOGIC.

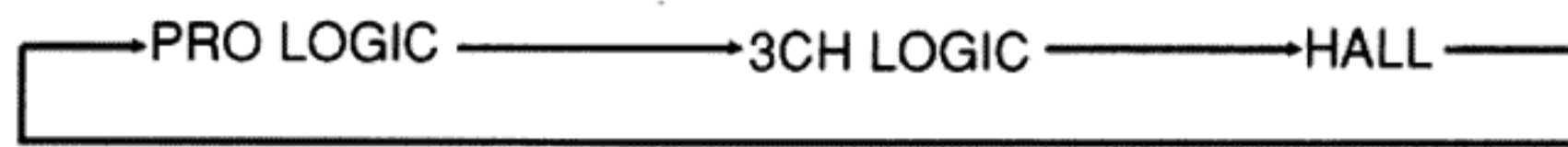
On the front panel:

Press the PRO LOGIC button or the 3CH LOGIC button.

From the remote control:

Press the MODE button on the SURROUND section.

Each time you press the button, the surround program changes as follows:



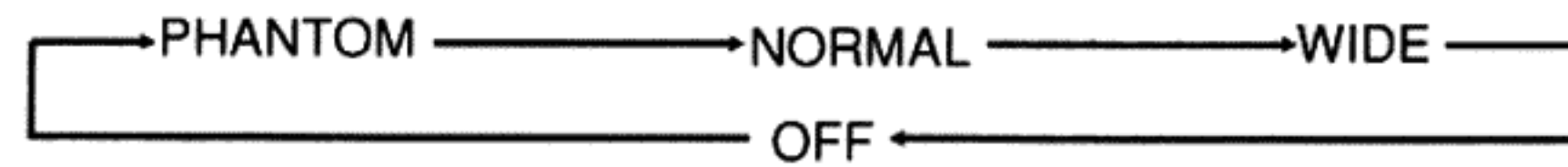
PRO LOGIC: Select this mode when you use the rear speakers

3CH LOGIC: Select this mode when you use no rear speakers

HALL: This is JVC's original surround program, and is different from the Dolby Surround. To use this, see page 16.

3. Press the CENTER MODE button.

Each time you press the CENTER MODE button, the mode changes as follows.



PHANTOM: Select this mode when you don't use a center speaker.

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

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

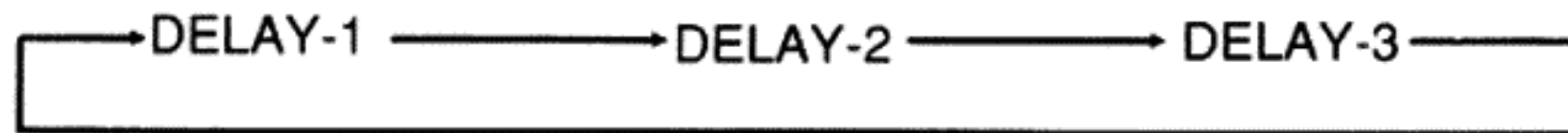
OFF: Select this mode to shut off the output of the center channel signal.

Note:

When you have selected 3CH LOGIC in Step 2 above, you cannot select PHANTOM.

4. Press the DELAY button to set the delay time of the delayed sound.

Each time you press the button, the delay time changes among 3 levels.



DELAY-1: When your distance to the rear speakers is greater than that to the front speakers.

DELAY-2: When your distance to your rear speakers is almost equal to that to the front speakers.

DELAY-3: When your distance to your rear speakers is less than that to the front speakers.

Note:

When you have selected 3CH LOGIC in Step 2 above, you cannot adjust the delay time.



On the front panel

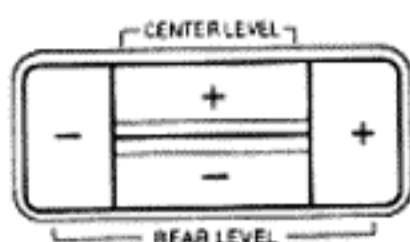
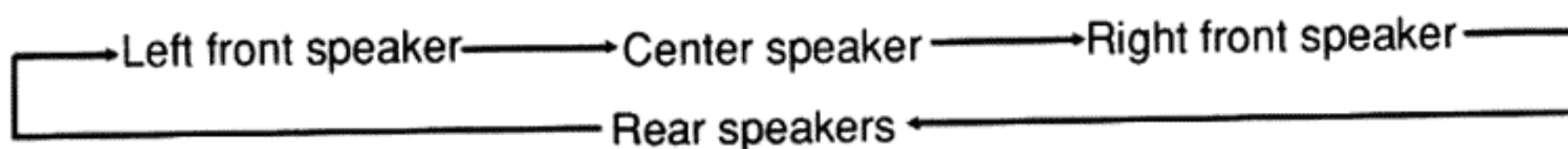


From the remote control



5. Press the TEST button to check your setting.

When you press the button, "TEST" starts blinking and a test tone comes out of speakers in the following order:



On the front panel

6. Set the levels of center and rear speakers.

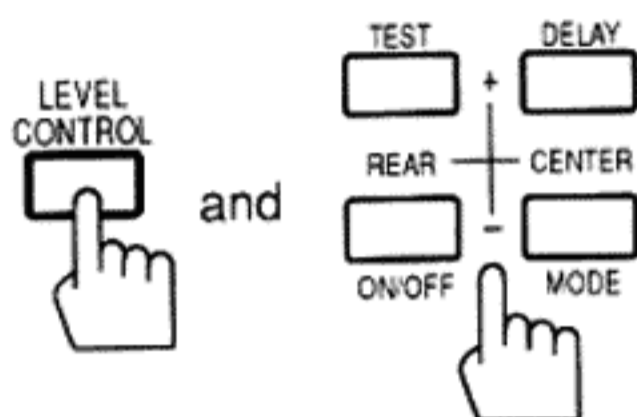
On the front panel:

Press the CENTER LEVEL +/- button to set the sound level of the center speaker, and Press the REAR LEVEL +/- button to set the sound level of the rear speakers.

From the remote control:

Press the CENTER +/- button while pressing the LEVEL CONTROL button to set the sound level of the center speaker, and

Press the REAR +/- button while pressing the LEVEL CONTROL button to set the sound level of the rear speakers.



From the remote control

Notes:

- You can adjust the front speaker output balance by using the BALANCE control.
- You can adjust these levels in 2 dB steps within the range of ± 20 dB. The sound levels of the left and right rear speakers will be the same.
- You cannot set the sound level of the rear speakers when you have selected 3CH LOGIC.
- You cannot set the sound level of the center speaker when you select PHANTOM or OFF for center mode.
- Although the sound levels of center and rear speakers can be stored, they are not stored separately for each surround program.




7. Press the TEST button again to finish the preparation.

The test tone stops.

Once you have set the Dolby Surround adjustments you can use the same adjustments every time you want to enjoy Dolby Surround.



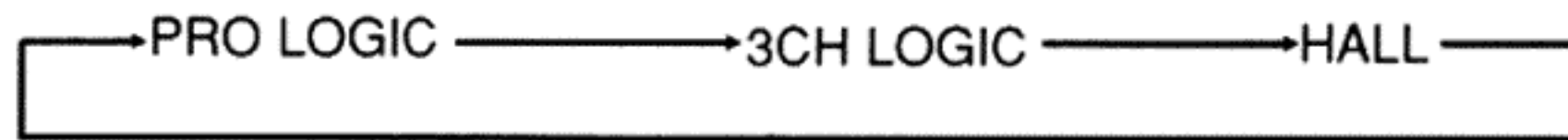
On the front panel:

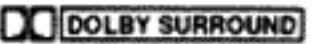
1. Press the SURROUND ON/OFF button so that one of the surround program indicators lights up on the display.
2. Press either the PRO LOGIC or 3CH LOGIC button if the surround program indicator you want does not light up.
3. Play a sound source which was processed with Dolby Surround and is labeled with  mark.



From the remote control:

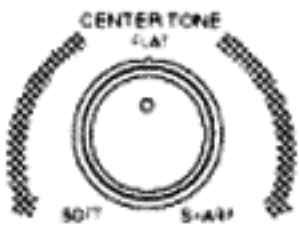
1. Press the ON/OFF button on the SURROUND section so that one of the surround program indicator lights up on the display.
2. Press the MODE button on the SURROUND section repeatedly if the surround program indicator (PRO LOGIC or 3CH LOGIC) you want does not light up. Each time you press the button, the display changes to show the following:



3. Play a sound source which was processed with Dolby Surround and is labeled with  mark.

To cancel the Dolby Surround, press the SURROUND ON/OFF button (or the ON/OFF button on the remote control) again.

To make dialogues in movies softer or clearer



By using the CENTER TONE control you can adjust the level of mid-frequency range, which the human voice is mostly made up of.

To make dialogues clearer, turn the control toward SHARP.

To make them softer, turn the control toward SOFT.

When set to the FLAT position, no adjustment is applied.

Note:

The CENTER TONE control cannot be used when sounds do not come out of the center speaker.

Other Features

The RX-517VTN has some other features like recording monitor function and others. By using these useful features, your audio life will be much improved.

Recording Monitor

TAPE 2 MONITOR



On the front panel

TAPE 2



From the remote control

If the tape deck connected to the TAPE2 jacks is of the three-head type, you can compare the sound quality of the playing source and of the recording being made on the tape deck.

To use the recording monitor function

Press the TAPE2 MONITOR button on the front panel or the TAPE2 button on the remote control. The TAPE2 MONITOR indicators light up on the display and on the front panel. You can hear the sound just recorded on the tape.

To cancel recording monitor function

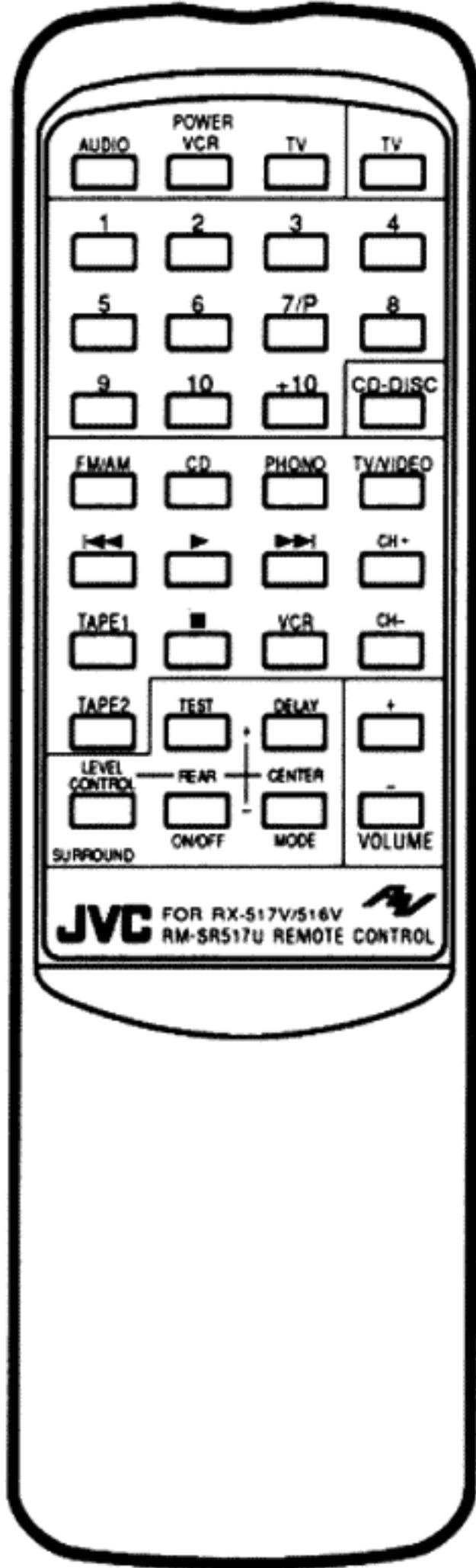
Press the TAPE2 MONITOR button or the TAPE 2 button again. The TAPE2 MONITOR indicators go off, and you hear the sound from the source playing.

Notes:

- Refer also to the manual supplied with your tape deck.
- Do not press the TAPE2 MONITOR (or TAPE2) button if no component is connected to the TAPE 2 jacks; otherwise, no sound comes out of the speakers

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.

To operate these components with the remote control, first select a source with the source selecting buttons on the remote control. Then, operate that source using the remote control.



Note:

If you choose a source on the front panel directly, 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.

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

FM/AM Alternates between FM and AM.

1 — 10, +10 Selects a preset channel number directly

To select channel number 5, press 5. For channel number 15, press +10, then 5. For channel number 20, press +10, then 10.

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

▶ Starts playing

◀◀ Returns to the beginning of the current track

▶▶ Skips to the beginning of the next track

■ Stops playing

1 — 10, +10 Selects a track number directly

To select track number 5, press 5. For track number 15, press +10, then 5. For track number 20, press +10, then 10.

After pressing the TAPE1 button, you can perform the following operations on a tape deck:

▶ Starts playback

◀◀ Fast winds a tape from right to left

▶▶ Fast winds a tape from left to right

■ Stops operation

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

▶ Starts playback

◀◀ Rewinds a video tape

▶▶ Fast winds a video tape

■ Stops operation

CH+/- Changes TV channels on a VCR

Note:

While you are playing the source other than VCR—such as the CD player or tape deck, you cannot operate the VCR using the remote control.

After pressing the TV button (located at the upper rightmost portion of the remote control, not the one in the POWER section), you can perform the following operations on TV:

CH+/- Changes TV channels

Notes:

- When you press the TV button (located at the upper rightmost portion of the remote control, not the one in the POWER section), the TV's input mode changes to TV.
- You can also turn the VCR and TV on and off by pressing the VCR or TV button in the POWER section of the remote control.

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

1 — 6, P Select the number of a disc installed in a CD player-changer. Then continue to operate the CD player as described above.

Note:

If you have the CD player-changer XL-MC100C and XL-MC100M, 1 — 6 buttons function as the DISC SKIP button.

- Press 2, 4, or 6 to skip to the next disc.
- Press 1, 3, or 5 to skip back to the previous disc.



The COMPU LINK remote control system allows you to operate JVC audio components through the remote sensor on the RX-517VTN.

To use this remote control system, you need to connect JVC audio components through the COMPU LINK-3 SYNCHRO jacks (see page 8) in addition to the connections using cables with RCA pin plugs (see page 7). This remote control system allows you to use four functions listed below.

■ Remote Control through the Remote Sensor on the RX-517VTN

You can control all components through the remote sensor on the RX-517VTN using this remote control. For details, see page 22.

Note:

Aim the remote control directly at the remote sensor on the RX-517VTN.

■ Automatic Source Selection

When you press the play (▶) button on a connected component or on its own remote control, the RX-517VTN automatically turns on and changes the source to the component. On the other hand, if you select a new source on the RX-517VTN 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 (only possible with the COMPU LINK-3 connection)

Both the CD player and tape deck turns on and off along with the RX-517VTN.

When you turn on the RX-517VTN, the CD player or tape deck will turn on automatically, depending which component has been previously selected.

When you turn off the RX-517VTN, both the CD player and tape deck will turn off.

■ Synchronized Recording

Synchronized recording means the tape deck starts recording as soon as a CD or record begins playing.

To use synchronized recording, follow these steps:

- 1 Put a tape in the tape deck, and a disc in the CD player (or a record on the turntable).**
- 2 Press the record (●) button and the pause (||) button on the tape deck at the same time.**
This puts the tape deck into recording pause.

Note:

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 RX-517VTN, and as soon as play starts, the tape deck starts recording. When the play ends, the tape deck enters recording pause, and stops 4 seconds later.

Notes:

- *During synchronized recording, the selected source cannot be changed.*
- *If your CD player is playing in program mode, a 4-second blank is recorded between tracks so that the music scan feature of your tape deck can be used on the recorded tape.*
- *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.*
- *Refer also to the manuals supplied with your CD player and tape deck.*

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 not plugged in	Plug the power cord into an AC outlet
No sound from speakers	Speaker wires not connected	Check speaker wiring and reconnect if necessary
	The SPEAKERS buttons are not set correctly	Press the SPEAKERS buttons in or out correctly
	An incorrect source is selected	Select the correct source
	The TAPE2 MONITOR indicator lights up when no component is connected to the TAPE2 jacks	Press the TAPE2 MONITOR button so that the indicator goes off
Sound from one speaker only	Speaker wires are not connected properly	Check speaker wiring and reconnect if necessary
	The BALANCE control is set to one extreme	Adjust the BALANCE control properly
Continuous hiss or buzzing during FM reception	Incoming signal is too weak	Adjust the antenna
	The station is too far away	Select a new station
	An incorrect antenna is used	Check with your dealer to be sure you have a 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
Remote control does not work	There is an obstruction in front of the remote sensor on the RX-517VTN	Remove the obstruction
	Batteries are weak	Replace batteries

Specifications

Amplifier

Output Power	At Stereo operation	80 watts per channel, min. RMS, both channels driven into 8 ohms, 20 Hz to 20 kHz with no more than 0.4% total harmonic distortion.
	At Surround operation Front Channels	75 watts per channel, min. RMS, driven into 8 ohms at 1 kHz with no more than 0.7% total harmonic distortion.
	Center Channel	75 watts, min. RMS; driven into 8 ohms at 1 kHz, with no more than 0.7% total harmonic distortion .
	Rear Channels	20 watts per channel, min. RMS, driven into 8 ohms at 1kHz, with no more than 0.7% total harmonic distortion
Total Harmonic Distortion (8 ohms, 1 kHz)		0.06 %* at 70 watts output (* Measured by JVC Audio Analysis System)
Frequency Response (8 ohms)	PHONO CD,TAPE1,TAPE2,VCR,TV/VIDEO	20 Hz to 20 kHz (± 0.5 dB) 10 Hz to 30 kHz (± 1 dB)
Signal-to-Noise Ratio (‘66 IHF/’78 IHF)	PHONO CD,TAPE1,TAPE 2,VCR,TV/VIDEO	70 dB/78 dB (at REC OUT) 91 dB/80 dB
RIAA Phono Equalization		± 0.5 dB (20 Hz to 20 kHz)
Audio Input Sensitivity/ Impedance (1 kHz)	PHONO CD,TAPE1,TAPE2,VCR,TV/VIDEO	2.5 mV/47 k ohms 210 mV/47 k ohms
Audio Output Level	TAPE1,TAPE2,VCR	200 mV
Tone Control Range	BASS TREBLE	+8 ± 2 dB, -8 ± 2 dB (at 100 Hz) +8 ± 2 dB, -8 ± 2 dB (at 10 kHz)
Video Input Sensitivity/ Impedance	VCR,TV/VIDEO	1 Vp-p/75 ohms
Video Output Level	VCR, MONITOR OUT	1 Vp-p (at 1 Vp-p input)
Synchronization		negative
Signal-to-Noise Ratio		45 dB

FM tuner (IHF)

Tuning Range		87.5 MHz to 108.0 MHz
Usable Sensitivity		10.8 dBf (0.95 μ V/75 ohms)
50 dB Quieting Sensitivity	Monaural Stereo	16.3 dBf (1.8 μ V/75 ohms) 38.3 dBf (22.5 μ V/75 ohms)
Signal-to-Noise Ratio (IHF-A weighted)	Monaural Stereo	80 dB at 85 dBf 73 dB at 85 dBf
Total Harmonic Distortion	Monaural Stereo	0.15 % at 1 kHz 0.2 % at 1 kHz
Stereo Separation at REC OUT		40 dB at 1 kHz
Capture Ratio		1.5 dB
Alternate Channel Selectivity		60 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	300 μ V/m
	External antenna	30 μ V
Signal-to-Noise Ratio		50 dB (100mV/m)

General

Power Requirements		AC 120V \sim , 60 Hz
Power Consumption		250 watts/330 VA 5 watts (in standby mode)
Dimensions (W x H x D)		435 x 156 x 405 mm (17 ³ / ₁₆ x 6 ³ / ₁₆ x 16 inches)
Mass		10.6 kg (23.4 lbs)

Designs & specifications subject to change without notice

