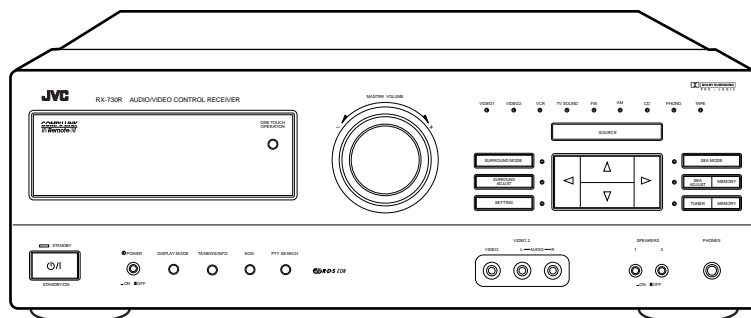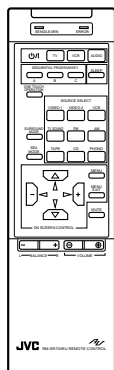# JVC

AUDIO/VIDEO CONTROL RECEIVER

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

RX-730RBK

COMPU LINK
|||| Remote ||||

INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI

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

Model No.

Serial No.

LET0054-001A
[EF, G]

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

IMPORTANT for the U.K.

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

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

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

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

IMPORTANT.

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

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

Blue : Neutral
Brown : Live

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

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

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

IF IN DOUBT - CONSULT A COMPETENT ELECTRICIAN.

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

English

Deutsch

Français

Nederlands

Español

Italiano

CAUTION
To reduce the risk of electrical shocks, fire, etc.:
1. Do not remove screws, covers or cabinet.
2. Do not expose this appliance to rain or moisture.

ACHTUNG
Zur Verhinderung von elektrischen Schlägen, Brandgefahr, usw:
1. Keine Schrauben lösen oder Abdeckungen enternen und nicht das Gehäuse öffnen.
2. Dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

ATTENTION
Afin d'éviter tout risque d'électrocution, d'incendie, etc.:
1. Ne pas enlever les vis ni les panneaux et ne pas ouvrir le coffret de l'appareil.
2. Ne pas exposer l'appareil à la pluie ni à l'humidité.

VOORZICHTIG
Ter vermindering van gevaar voor brand, elektrische schokken, enz.:
1. Verwijder geen schroeven, panelen of de behuizing.
2. Stel dit toestel niet bloot aan regen of vocht.

PRECAUCIÓN
Para reducir riesgos de choques eléctricos, incendio, etc.:
1. No extraiga los tornillos, los cubiertas ni la caja.
2. No exponga este aparato a la lluvia o a la humedad.

ATTENZIONE
Per ridurre il rischio di scosse elettriche, incendi, ecc...
1. Non togliere viti, coperchi o la scatola.
2. Non esporre l'apparecchio alla piogggia e all'umidità.

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Caution — ① POWER switch and STANDBY/ON ⏻/❙ button!

This apparatus is provided with a ① POWER switch to be able to minimize power consumption for safe use. Therefore,

1. When doing initial setting, complete all the connections required, connect the mains plug into the wall outlet, and set the ① POWER switch to ON. After these, it will be available to operate STANDBY/ON ⏻/❙ button and so on.
2. When not in use, set the ① POWER switch to OFF.
3. Disconnect the mains plug to shut the power off completely. The ① POWER switch and STANDBY/ON ⏻/❙ button in any position do not disconnect the mains line.
4. The power can be remote controlled.

Achtung — ① POWER-Schalter und STANDBY/ON ⏻/❙-Taste!

Dieses Gerät hat einen Netzschalter (① POWER), um den Stromverbrauch für sichere Verwendung auf ein Minimum bringen zu können. Verfahren Sie deshalb wie folgt:

1. Beim ursprünglichen Aufbau alle erforderlichen Anschlüsse herstellen, den Netzstecker in eine Wandsteckdose stecken, und den ① POWER-Schalter einschalten. Anschließend ist Betrieb der STANDBY/ON ⏻/❙-Taste usw. möglich.
2. Wenn das Gerät nicht verwendet wird, den ① POWER-Schalter ausschalten.
3. Den Netzstecker aus der Steckdose ziehen, um die Stromversorgung vollkommen zu unterbrechen. Der ① POWER-Schalter und die STANDBY/ON ⏻/❙-Taste unterbrechen in keiner Stellung die Stromversorgung vollkommen.
4. Die Stromversorgung kann mit der Fernbedienung ein- und ausgeschaltet werden.

Attention — Commutateur ① POWER et d'une touche STANDBY/ON ⏻/❙!

Cet appareil est équipé d'un commutateur ① POWER qui lui permet de réduire sa consommation d'électricité pour une utilisation plus sûre. Par conséquent,

1. En procédant au réglage initial, compléter toutes les connexions nécessaires, connecter la fiche secteur dans la prise murale et mettre le commutateur ① POWER sur la position ON. Ensuite, il sera possible de contrôler la touche STANDBY/ON ⏻/❙, etc.
2. Mettre le commutateur ① POWER sur la position OFF lorsque l'appareil n'est pas utilisé.
3. Déconnecter la fiche secteur pour couper complètement le courant. Le commutateur ① POWER et la touche STANDBY/ON ⏻/❙ ne coupent jamais complètement l'alimentation, quelle que soit leurs positions.
4. L'alimentation peut être télécommandée.

Voorzichtig — ① POWER en STANDBY/ON ⏻/❙ schakelaars!

Dit apparaat is voorzien van een ① POWER hoofdschakelaar om het apparaat gebruiksklaar te zetten, maar te zorgen dat het stroomverbruik minimaal blijft. Neem in verband hiermee het volgende in acht:

1. Bij de eerste ingebruikneming zorgt u eerst dat alle aansluitingen in orde zijn, dan steekt u de stekker in het stopkontakt en dan zet u de ① POWER schakelaar in de "ON" stand. Daarna kunt u het apparaat aan- en uitschakelen met de STANDBY/ON ⏻/❙ schakelaar.
2. Wanneer u het apparaat geruime tijd niet gebruikt, kunt u beter de ① POWER schakelaar in de "OFF" stand zetten.
3. Om de stroomtoevoer geheel uit te schakelen, trekt u de stekker uit het stopkontakt. Anders zal er altijd een geringe hoeveelheid stroom naar het apparaat lopen, ongeacht de stand van de STANDBY/ON ⏻/❙ en de ① POWER.
4. U kunt het apparaat ook met de afstandsbediening aan- en uitschakelen.

Precaución — Interruptor ① POWER y botón STANDBY/ON ⏻/❙!

Esta unidad dispone de un interruptor ① POWER que sirve para reducir al mínimo el consumo de alimentación para proporcionar mayor seguridad operacional. Por lo tanto,

1. Al ejecutar el ajuste inicial, después de completar todas las conexiones requeridas, conectar el cable de alimentación a una toma de pared, y activar el interruptor ① POWER. Entonces, será posible ejecutar operaciones tales como la conmutación del estado de alimentación.
2. Desactivar el interruptor ① POWER al dejar la unidad fuera de uso.
3. Desconectar el cable de alimentación para desactivar la alimentación totalmente. Cualquier que sea la posición de ajustes del interruptor ① POWER y el botón STANDBY/ON ⏻/❙, la alimentación no es cortada completamente.
4. La alimentación puede ser controlada remotamente.

Attenzione — Interruttore ① POWER e tasto STANDBY/ON ⏻/❙!

Per ridurre al minimo l'assorbimento di corrente ai fini della sicurezza, questo apparecchio è stato dodato di un interruttore ① POWER. Di conseguenza,

1. Al momento dell'impostazione iniziale, completare tutti i collegamenti richiesti, inserire la spina del cavo di alimentazione nella presa a muro della rete elettrica e impostare l'interruttore ① POWER in posizione ON. Fatto ciò, sarà pronto all'uso STANDBY/ON ⏻/❙.
2. Quando non in uso, impostare l'interruttore ① POWER in posizione OFF.
3. Disinserire la spina del cavo di alimentazione dalla presa della rete elettrica per staccare completamente l'alimentazione. L'interruttore ① POWER e il tasto STANDBY/ON ⏻/❙ in nessuna posizione staccano la linea di alimentazione elettrica principale.
4. È possibile il controllo remoto dell'alimentazione.

Caution: Proper Ventilation

To avoide risk of electric shock and fire and to protect from damage.
Locate the apparatus as follows:
Front: No obstructions open spacing.
Sides: No obstructions in 10 cm from the sides.
Top: No obstructions in 10 cm from the top.
Back: No obstructions in 15 cm from the back
Bottom: No obstructions, place on the level surface.
In addition, maintain the best possible air circulation as illustrated.

Achtung: Angemessene Ventilation

Stellen Sie das Gerät zur Verhütung von elektrischem Schlag und
Feuer und zum Schutz gegen Beschädigung wie folgt auf:
Vorderseite: Offener Platz ohne Hindernisse.
Seiten: Keine Hindernisse innerhalb 10 cm von den Seiten.
Oberseite: Keine Hindernisse innerhalb 10 cm von der Oberseite.
Rückseite: Keine Hindernisse innerhalb 15 cm von der Rückseite.
Unterseite: Keine Hindernisse. Auf eine ebene Oberfläche stellen.
Zusätzlich die bestmögliche Luftzirkulation wie gezeigt erhalten.

Attention: Ventilation Correcte

Pour éviter les chocs électriques, l'incendie et tout autre dégât.
Disposer l'appareil en tenant compte des impératifs suivants
Avant: Rien ne doit gêner le dégagement
Flancs: Laisser 10 cm de dégagement latéral
Dessus: Laisser 10 cm de dégagement supérieur
Arrière: Laisser 15 cm de dégagement arrière
Dessous: Rien ne doit obstruer par dessous; poser l'appareil sur
           une surface plate.
Veiller également à ce que l'air circule le mieux possible comme
illustré.

Voorzichtig: Zorg Voor Goede Ventilatie

Om gevaar voor brand of een elektrische schok te voorkomen, dient u
bij opstelling van het apparaat op de volgende punten te letten:
Voorkant: Voldoende ruimte vrij houden.
Zijkanten: Minstens 10 cm aan weerszijden vrij houden.
Bovenkant: Niets bovenop plaatsen; 10 cm speling geven.
Achterkant: Minstens 15 cm ruimte achteraan vrij houden.
Onderkant: Opstellen op een egaal horizontaal oppervlak.
Bovendien moet er rondom voldoende luchtdoorstroming zijn, zoals in
de afbeelding aangegeven.

Precaución: Ventilación Adecuada

Para evitar el riesgo de choque eléctrico e incendio y para proteger el
aparato contra daños.
Ubique el aparato de la siguiente manera:
Frente: Espacio abierto sin obstrucciones
Lados: 10 cm sin obstrucciones a los lados
Parte superior: 10 cm sin obstrucciones en la parte superior
Parte trasera: 15 cm sin obstrucciones en la parte trasera
Fondo: Sin obstrucciones, colóquelo sobre una superficie
                nivelada
Además, mantenga la mejor circulación de aire posible como se
ilustra.

Attenzione: Problemi di Ventilazione

Per evitare il rischio di folgorazioni ed incendi e proteggere l'unità da
danni, installarla nel modo seguente.
Davanti: Nessun ostacolo, spazio libero
Lati: Nessun ostacolo per almeno 10 cm
Sopra: Nessun ostacolo per almeno 10 cm
Retro: Nessun ostacolo per almeno 15 cm
Fondo: Libero ed in piano
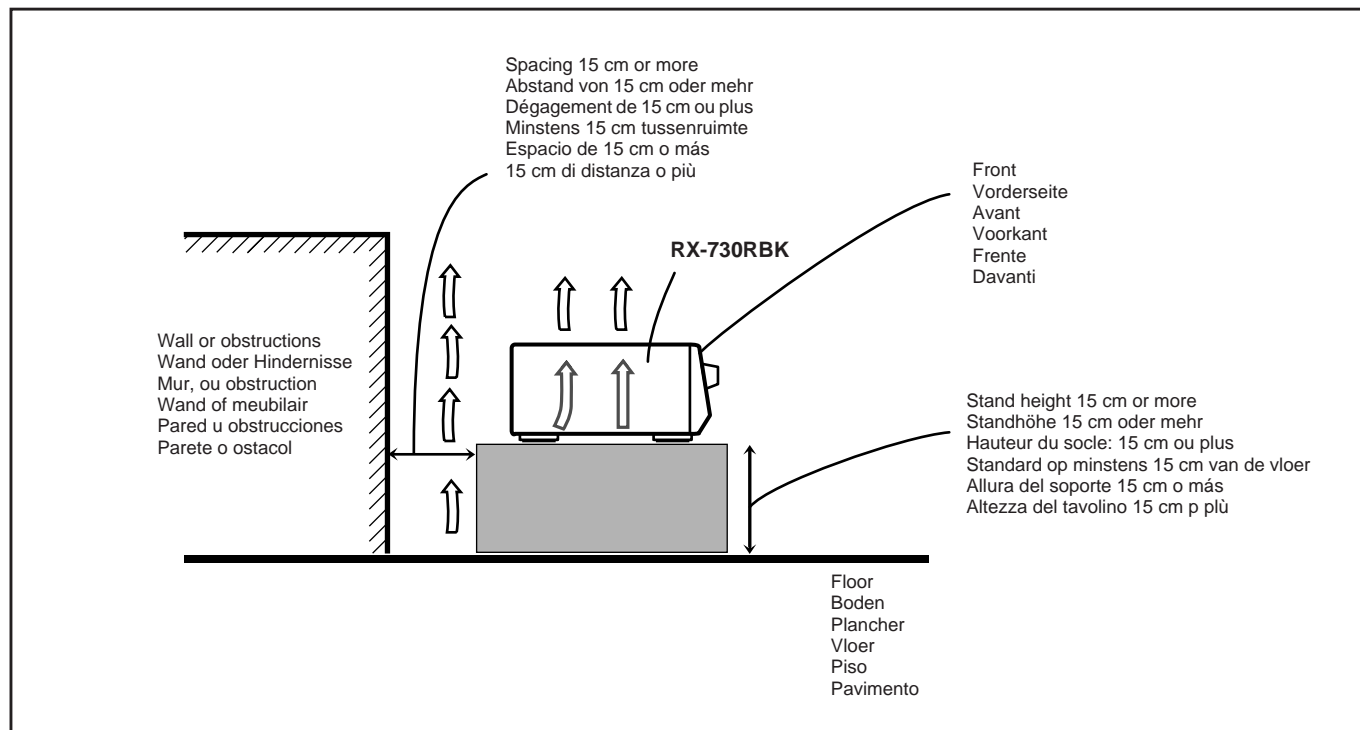Inoltre, mantenere il più possibile la circolazione dell'aria.

Spacing 15 cm or more
Abstand von 15 cm oder mehr
Dégagement de 15 cm ou plus
Minstens 15 cm tussenruimte
Espacio de 15 cm o más
15 cm di distanza o più

Front
Vorderseite
Avant
Voorkant
Frente
Davanti

RX-730RBK

Wall or obstructions
Wand oder Hindernisse
Mur, ou obstruction
Wand of meubilair
Pared u obstrucciones
Parete o ostacol

Stand height 15 cm or more
Standhöhe 15 cm oder mehr
Hauteur du socle: 15 cm ou plus
Standard op minstens 15 cm van de vloer
Allura del soporte 15 cm o más
Altezza del tavolino 15 cm p plù

Floor
Boden
Plancher
Vloer
Piso
Pavimento

G-4

Table of Contents

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 (23˚ and 95˚ F).
- Make sure there is good ventilation around the receiver. Poor ventilation could cause overheating and damage the receiver.

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

Checking the Supplied Accessories

Check to be sure you have all of the following items, which are supplied with the receiver.
The number in the parenthesis indicates the quantity of the pieces supplied.
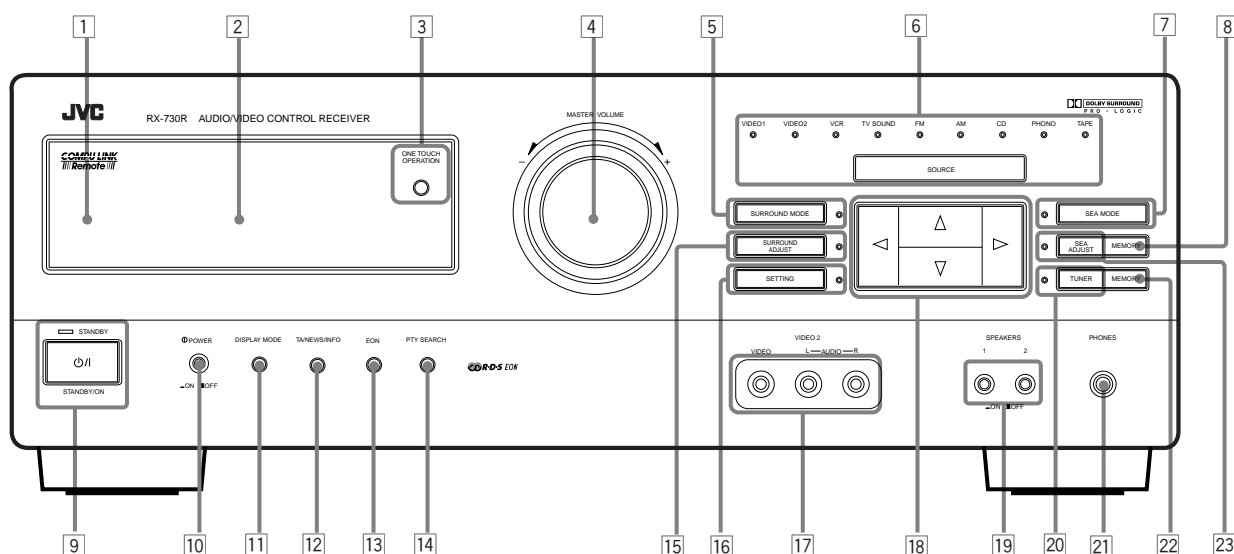
- **Remote Control (1)**

- **Batteries (2)**

- **AM (MW/LW) Loop Antenna (1)**

- **FM Antenna (1)**

If anything is missing, contact your dealer immediately.

Switches, Buttons and Controls

Become familiar with the main switches and controls on your receiver before use.

Front Panel

Refer to the pages in parentheses for details.

Front Panel

1. Remote sensor (11)
2. Display (12)
3. ONE TOUCH OPERATION button and lamp (19)
4. MASTER VOLUME control (13)
5. SURROUND MODE button and lamp (29, 32, 36)
6. SOURCE button and lamps (12)
7. SEA MODE button and lamp (27)
8. MEMORY button for SEA adjustments (28)
9. STANDBY/ON ⏻/| button and STANDBY lamp (12)
10. ① POWER switch (11)
11. DISPLAY MODE button (23)
12. TA/NEWS/INFO button (26)
13. EON button (26)
14. PTY SEARCH button (24)
15. SURROUND ADJUST button and lamp (30, 32)
16. SETTING button and lamp (15 to 18)
17. VIDEO 2 input jacks (10)
18. Control △ / ▽ / ◁ / ▷ buttons
19. SPEAKERS 1/2 buttons (13)
20. TUNER button and lamp (20)
21. PHONES jack (14)
22. MEMORY button for presetting channels (20)
23. SEA ADJUST button and lamp (28)

IMPORTANT

To use Control △ / ▽ / ◁ / ▷ buttons (⑱) 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 function selecting buttons** (⑤, ⑥, ⑦, ⑮, ⑯, ⑳, ㉓), and being sure its lamp is lit.

However, pressing MENU (㉙ on the remote control) overrides the selected function and causes Control △ / ▽ / ◁ / ▷ button to act like the △ / ▽ / ◁ / ▷ buttons on the ON SCREEN CONTROL section (㉙) of the remote control (though a lamp for the selected function remains lit).
To return the Control △ / ▽ / ◁ / ▷ buttons to their usual behavior under the selected function, press the function button again.
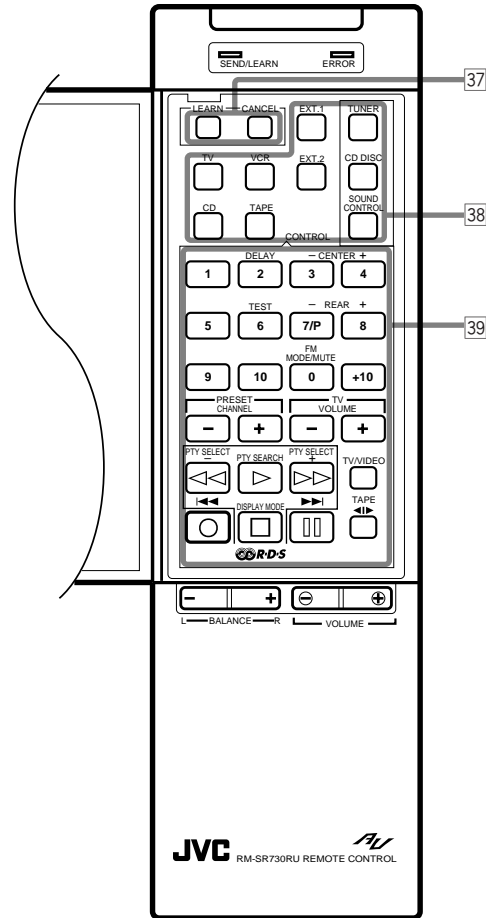

This mark indicates that you can also use the menu function to do the same operations.
Actual operations using the menu function are explained on the pages indicated next to the marks.
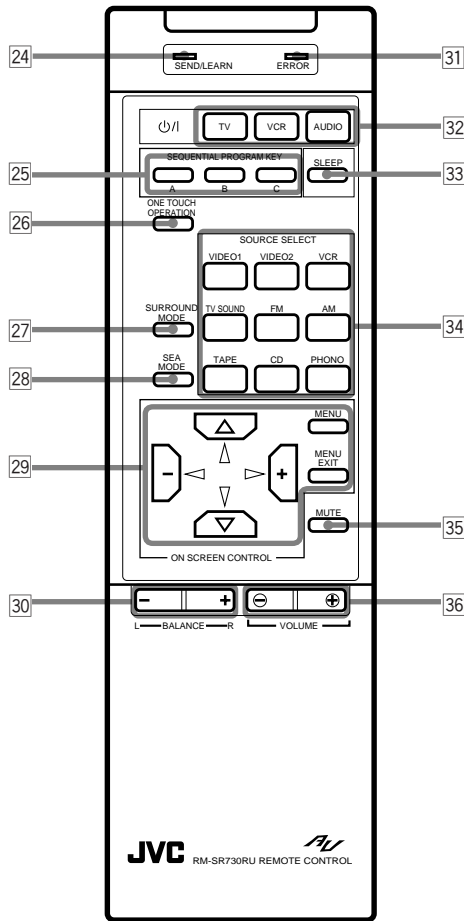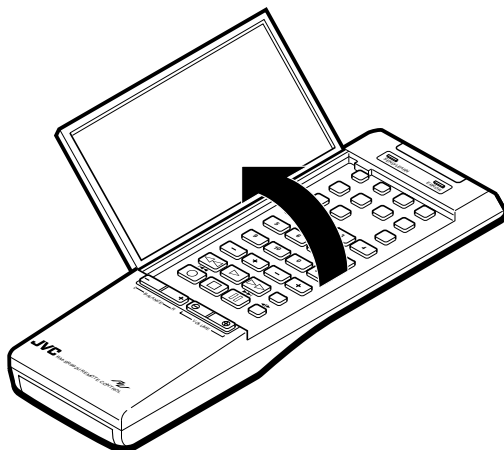
Remote Control

How to open the outside panel

IMPORTANT

About the △ / ▽ / ◁ / ▷ buttons on the ON SCREEN CONTROL section (㉙) of the remote control:

If you press these buttons, the menu function starts operating. So, make sure you are showing the on-screen display on the TV before pressing these buttons.


Remote Control

Outside panel

㉔ SEND/LEARN indicator (45 to 49)
㉕ SEQUENTIAL PROGRAM KEYs (45 to 49)
㉖ ONE TOUCH OPERATION button (19)
㉗ SURROUND MODE button (30, 34, 36)
㉘ SEA MODE button (27)
㉙ Menu function buttons (ON SCREEN CONTROL section) (37)
㉚ BALANCE L/R (+/–) buttons (15)
㉛ ERROR indicator (45 to 49)
㉜ ⏻/⏽ (Standby/On) buttons (POWER section) (12, 44, 47, 48)
㉝ SLEEP button (16)
㉞ Source select buttons (SOURCE SELECT section) (13)
㉟ MUTE button (14)
㊱ VOLUME +/– buttons (13)

Inside panel

㊲ Learning function buttons (45 to 49)
㊳ Remote mode section (42 to 49)
㊴ 10 keys (21)
   Sound Adjustment buttons (30, 34)
   Component operating buttons (42 to 44)
   RDS operating buttons (25, 42)

Page 4

Connecting the FM and AM (MW/LW) Antennas
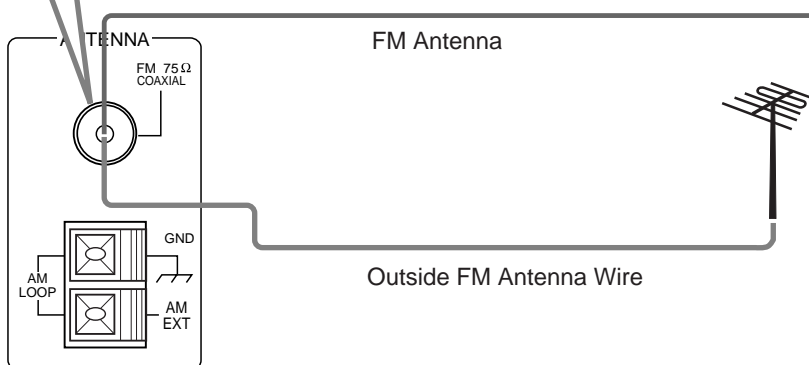
FM Antenna Connections
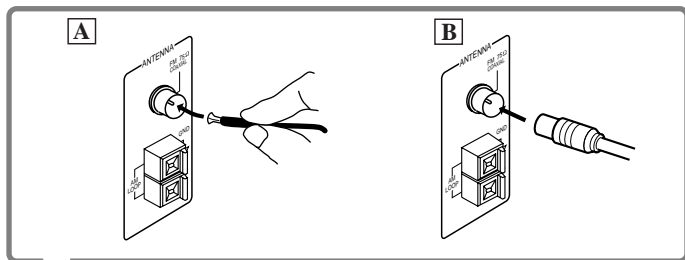
A **Using the Supplied FM Antenna**
The FM antenna provided can be connected to the FM 75-ohm COAXIAL terminal as temporary measure.

B **Using the Standard Type Connector (Not Supplied)**
A standard type connector (IEC or DIN45325) should be connected to the FM 75-ohm COAXIAL terminal.

Note: Make sure the antenna conductors do not touch any other terminals, connecting cords or power cord. This could cause poor reception.
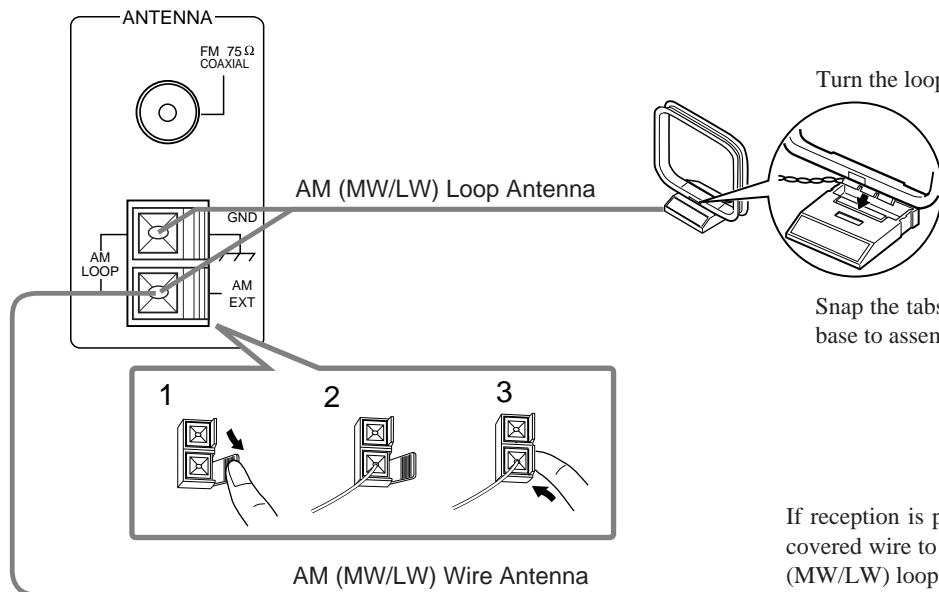
Extend the FM wire antenna horizontally.

If reception is poor, connect the outside antenna.

Before attaching a 75-ohm coaxial cable (the kind with a round wire going to the outdoor FM antenna), disconnect the supplied FM antenna.

AM (MW/LW) Antenna Connections

Turn the loop until you have the best reception.

Snap the tabs on the loop into the slots of the base to assemble the AM (MW/LW) loop.

If reception is poor, connect an outdoor single vinyl-covered wire to the AM EXT terminal. (Keep the AM (MW/LW) loop antenna connected.)

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

Page 5

Connecting the Speakers

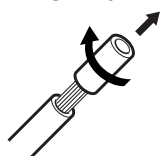You can connect the following speakers:
- Two pairs of front speakers to produce normal stereo sound.
- One pair of rear speakers to enjoy the surround effect.
- One center speaker to produce more effective surround effect (to emphasize human voices).
- One subwoofer to enhance the bass.

For each speaker (except for subwoofer), connect the black (–) and red (+) terminals on the rear panel to the black (–) and red (+) terminals marked on the speakers. For connecting a subwoofer, see page 7.

> **CAUTION:**
> When connecting speakers, use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals.

Connecting the front speakers

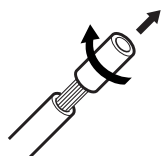Cut, twist and remove the insulation at the end of each speaker signal cable first, and then, connect the front speakers to the FRONT SPEAKERS terminals by using the cables.
You can connect two pairs of front speakers (one pair to the FRONT SPEAKERS ① terminals, and another pair to the FRONT SPEAKERS ② terminals).

1 Turn the knob counterclockwise.

2 Insert the speaker signal cable.

3 Turn the knob clockwise.
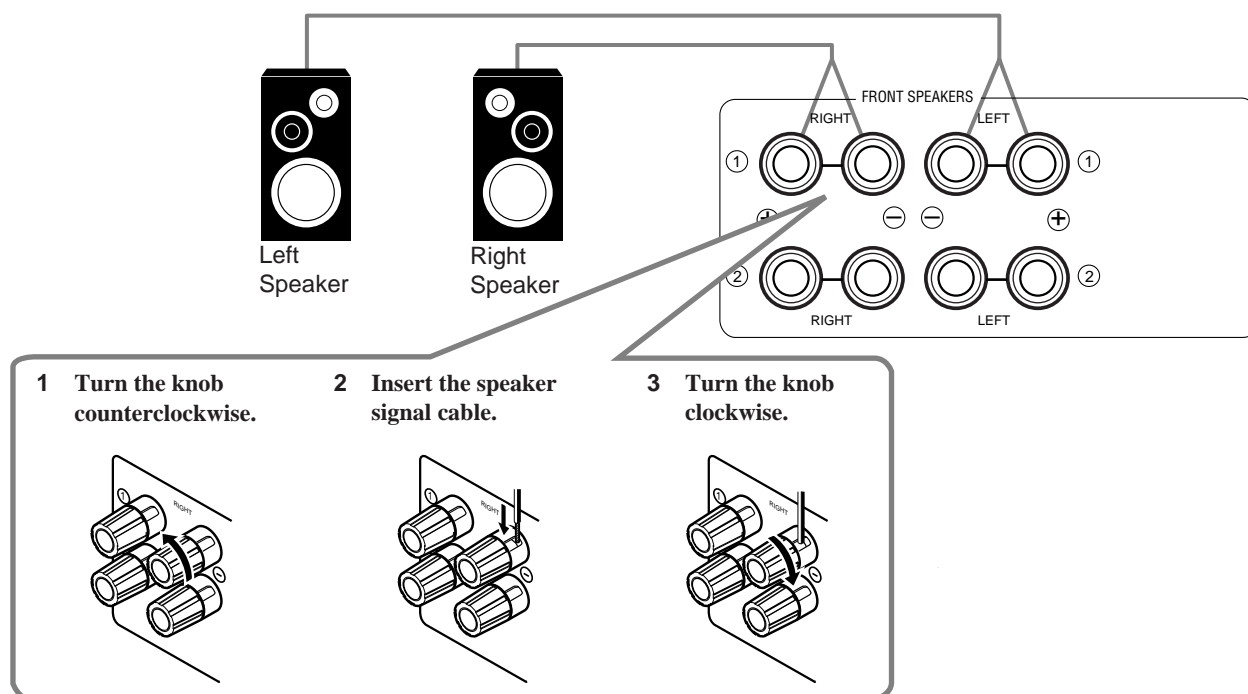
Connecting the rear and center speakers

Cut, twist and remove the insulation at the end of each speaker signal cable first, and then, connect rear speakers to the REAR SPEAKERS terminals and a center speaker to the CENTER SPEAKER terminals by using the cables.

CENTER SPEAKER

REAR SPEAKERS

RIGHT LEFT

Center Speaker

Left Rear Speaker   Right Rear Speaker
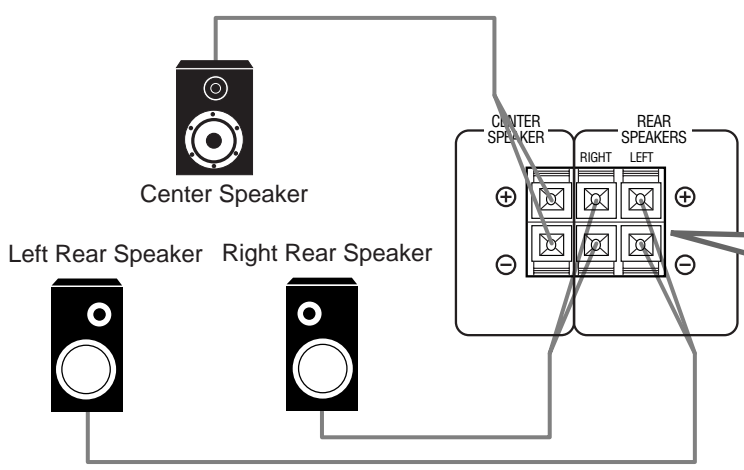
1 **Open the terminal and then insert the speaker signal cable.**

2 **Close the terminal.**

Notes:
- *You can register the center speaker size after you finish its connection. If you register it, you do not have to set the center speaker mode when setting the surround mode.*
  (If you do not use a center speaker, register that information.) See page 17.
- *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.*

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.

SUBWOOFER OUT

Powered subwoofer

About the speaker impedance of the speakers

CAUTION:
When connecting speakers, use speakers with the SPEAKER IMPEDANCE indicated by the speaker terminals.

Notes:
- *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.*
- *The required speaker impedance of the front speakers differs depending on whether or not a center and/ or rear speakers are connected at the same time. Since there are four possible speaker connections with the receiver, check which one fits your case and use the speaker with the impedance described below.*

CASE 1   **When you connect only front speakers**

Front Speaker   Front Speaker

Use front speakers with **4 — 16 ohm** impedance.

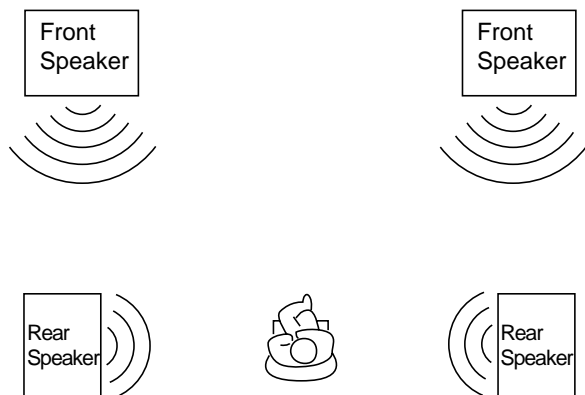**CASE 2**   **When you connect front speakers and a center speaker**
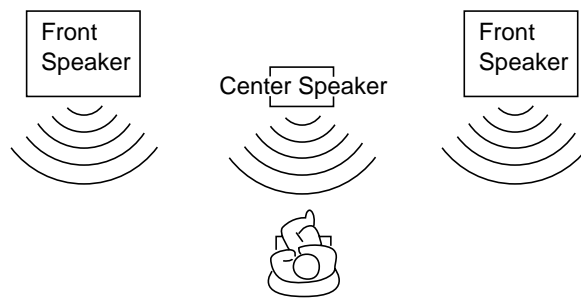
Front Speaker   Center Speaker   Front Speaker

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

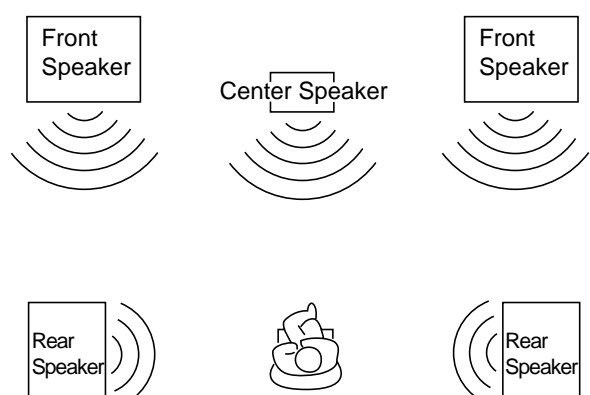**CASE 3**   **When you connect front and rear speakers**

Front Speaker   Front Speaker

Rear Speaker   Rear Speaker

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**

Front Speaker   Center Speaker   Front Speaker

Rear Speaker   Rear Speaker

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

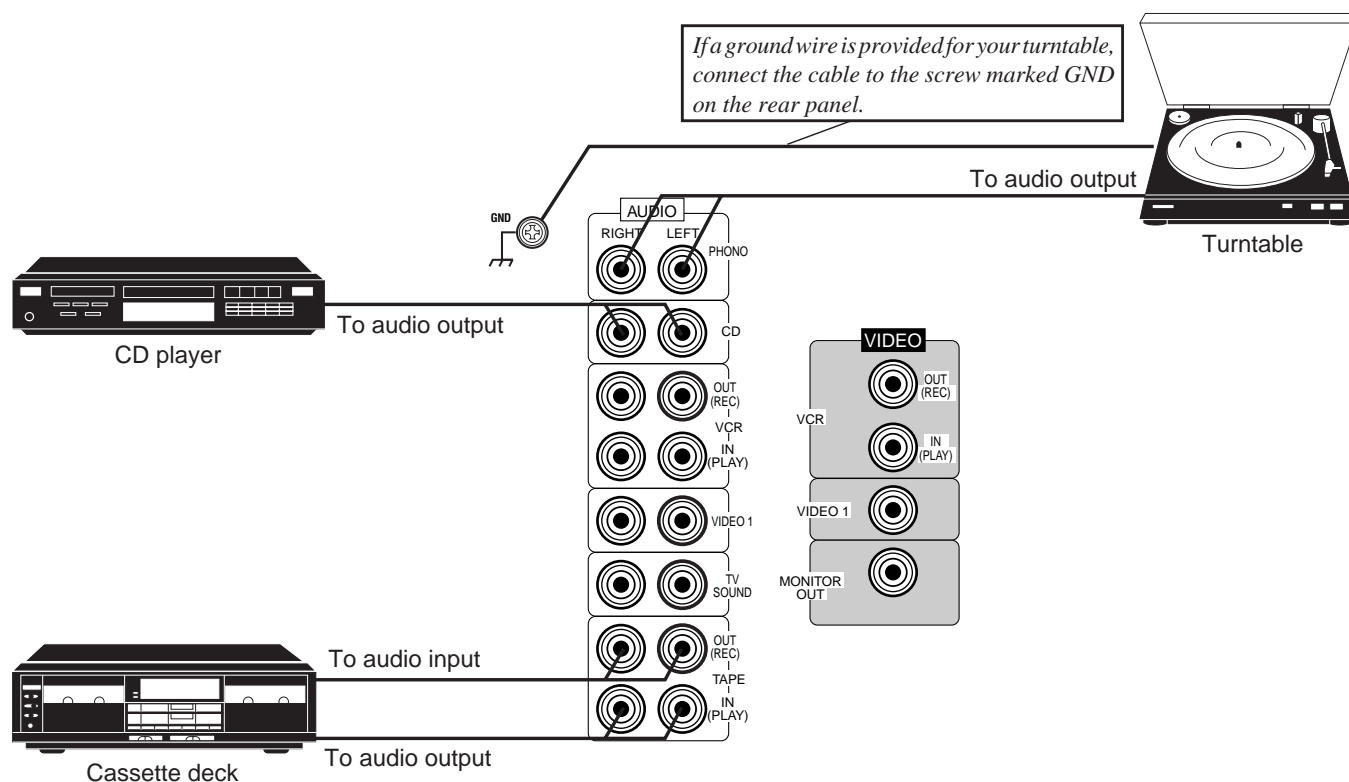## Connecting Audio/Video Components

You can connect the following audio/video components to this receiver using cables with RCA pin plugs (not supplied). Refer also to the manuals supplied with your components. If you want to connect a component not listed in the table below, refer to the manual supplied with it.

Audio Components	Video Components
• Turntable	• TV
• CD player	• VCR(s)
• Cassette deck	• Video disc player
———————	• Video camera

Notes:
* *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.*
* *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.*

Audio component connections

If a ground wire is provided for your turntable, connect the cable to the screw marked GND on the rear panel.

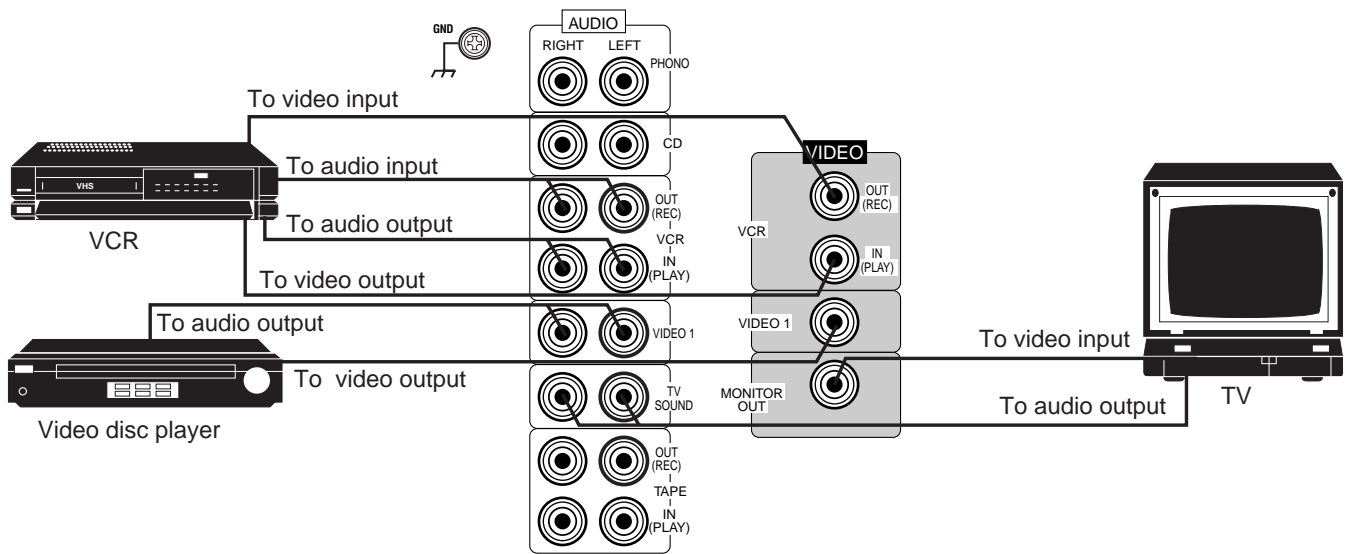#### If your audio components have a COMPU LINK-3 terminal

The COMPU LINK remote control system allows you to control other JVC audio components from the receiver or vice versa.

Connect your audio components and the receiver with the cable (monaural mini-plug supplied with those components) as well as the connection above.

For detailed information about the connection and the COMPU LINK-3 remote control system, see page 41.

Note:
The COMPU LINK-3 remote control system is the upgraded version of the COMPU LINK-1 and COMPU LINK-2. Even if your component 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.

Video component connections

GND

AUDIO

RIGHT   LEFT

PHONO

To video input

CD

VIDEO

VCR

VHS

To audio input

OUT
(REC)

OUT
(REC)

To audio output

VCR

VCR

IN
(PLAY)

IN
(PLAY)

To video output

VIDEO 1

VIDEO 1

To audio output

VIDEO 1

To video input

Video disc player

To video output

TV
SOUND

MONITOR
OUT

To audio output

TV

OUT
(REC)
I
TAPE
I
IN
(PLAY)

You can use the VIDEO 2 input jacks on the front panel. These jacks are convenient for connecting and disconnecting the component frequently.

VIDEO 2

Video camera

VIDEO   L–AUDIO–R

To audio output

To video output
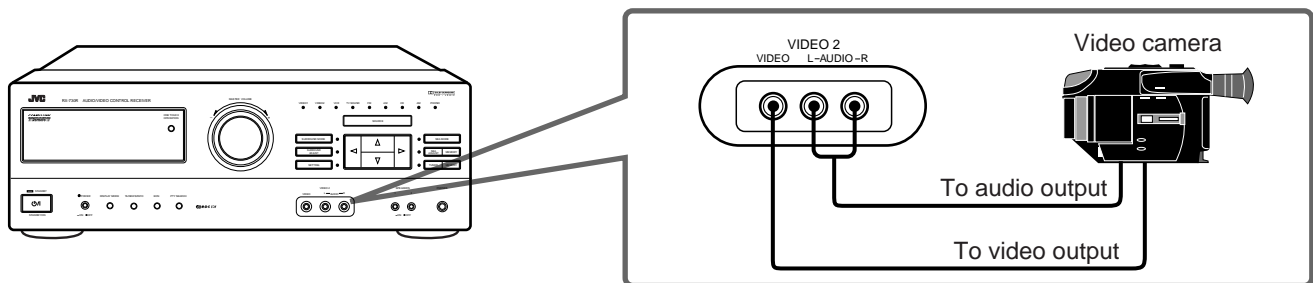
Connecting the Power Cord

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

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

2. **Press ① POWER to set it in the ▃ON position.**
   The STANDBY lamp lights up. A small amount of power is always consumed.

To shut off the power completely:
Press ① POWER to set it in the ▇OFF position.

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.

The difference between the ① POWER switch and the STANDBY/ON ⏻/❙ button
- The ① POWER switch is the mains supply switch, allowing the receiver to connect to the mains supply. To shut off the power completely, press the ① POWER switch to set it in the ▇OFF position.
- The STANDBY/ON ⏻/❙ button is a functional on/off (standby) switch, and does not disconnect the receiver from the mains supply. A small amount of power is consumed even in standby mode for the receiver to accept signals from the remote control.

Note:
A preset settings such as preset channels and sound adjustments may be erased in the following cases:
- *When you press ① POWER to set it in the ▇OFF position.*
- *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.
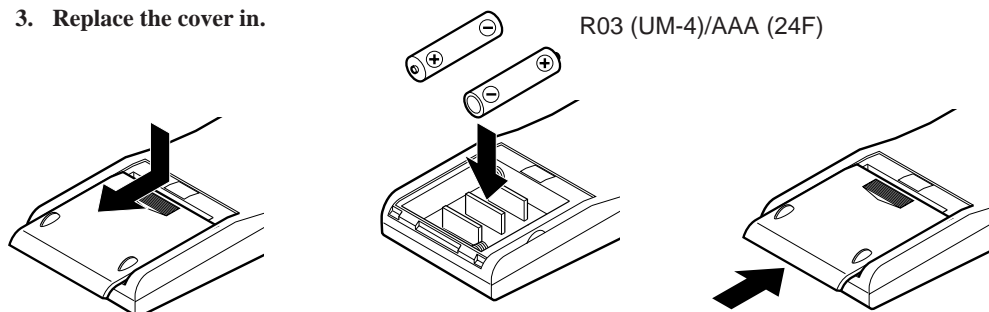

Putting Batteries in the Remote Control

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 cover as illustrated.**

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

3. **Replace the cover in.**

R03 (UM-4)/AAA (24F)

If the range or effectiveness of the remote control decreases, replace the batteries. Use two R03 (UM-4)/AAA (24F) type dry-cell batteries.

Note:
When you replacing the batteries, finish it without delay; otherwise, the control signals you have stored are all erased. (See pages 45 and 47.)


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

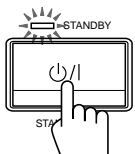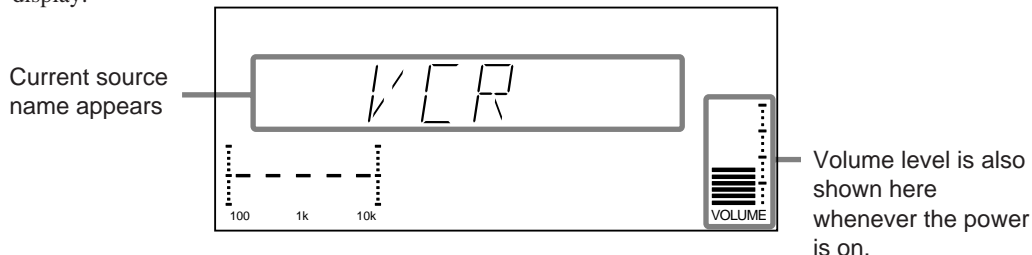The following operations are commonly used when you play any sound source.

Turning the Power On and Off
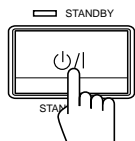
On the front panel:

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

Current source name appears

VCR

100   1k   10k

Volume level is also shown here whenever the power is on.

VOLUME

Front panel

To turn off the power (into standby mode), press STANDBY/ON ⏻/| again.
The STANDBY lamp lights up.

From the remote control:

To turn on the power, press AUDIO ⏻/| .
The STANDBY lamp goes off. The name of the current source appears on the display.

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

Remote: Outside

Note:
Pressing STANDBY/ON ⏻/| or AUDIO ⏻/| again turns off the power (into standby mode) and lights the STANDBY lamp. A small amount of power is consumed in standby mode. To turn the power off completely, press ① POWER to set it in the ■OFF position on the front panel.

☞MENU
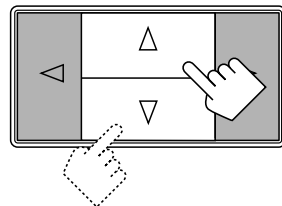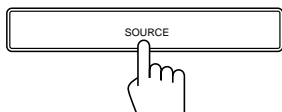
Selecting the Source to Play

You need to select the source before you start playing any source.
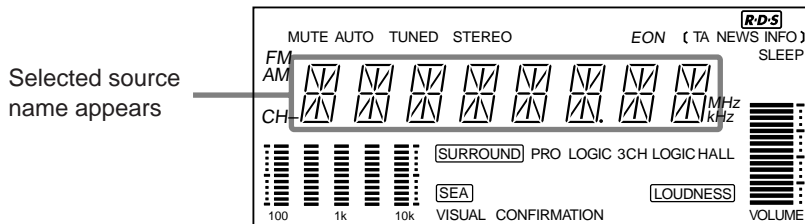
On the front panel:

1. Press SOURCE so that the Control △ / ▽ buttons work for selecting the source.

2. Press Control △ / ▽ until the source name you want appears on the display.
   The selected source lamp also lights up.

SOURCE

Selected source name appears

MUTE AUTO TUNED STEREO   EON 〖 TA NEWS INFO〗 R·D·S
FM   SLEEP
AM
CH   MHz
                                                    kHz

SURROUND PRO LOGIC 3CH LOGIC HALL

SEA   LOUDNESS
100   1k   10k   VISUAL CONFIRMATION   VOLUME

Front panel
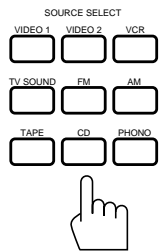
From the remote control:

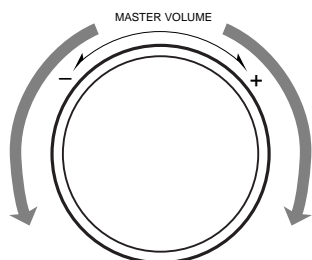**Press one of the buttons on the SOURCE SELECT section.**

VIDEO1	Play back a video source on the video component connected to the VIDEO1 jacks.
VIDEO2	Play back a video source on the video component connected to the VIDEO2 jacks.
VCR	Play back a video source on the video component connected to the VCR jacks.
TV SOUND	Listen to TV sounds.
FM*	Listen to FM broadcasts.
AM*	Listen to AM (MW/LW) broadcasts.
TAPE*	Listen to a cassette tape.
CD*	Listen to a CD.
PHONO*	Listen to a record.

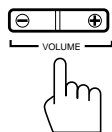*Note:*
When you press one of the buttons on the SOURCE SELECT section marked above with an asterisk (*), the receiver automatically turns on.

Remote: Outside

Adjusting the Volume

When you change the volume level, the volume level is shown on the display.

On the front panel:

To increase the volume, turn MASTER VOLUME clockwise.
To decrease the volume, turn MASTER VOLUME 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**.

Front panel

From the remote control:

To increase the volume, press VOLUME +.
To decrease the volume, press VOLUME –.

Remote: Outside

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

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 to set it in the ON position activates the respective pair of the 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 pairs of the speakers, press both SPEAKERS 1 and 2 to set them in the ON position.
To use neither pair of the speakers, press both SPEAKERS 1 and 2 to set them in the OFF position.

Front panel

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

Page 13

Listening with Headphones

A standard pair of headphones can be connected to the PHONES jack on the front panel.

To listen with only headphones, press both SPEAKERS 1 and 2 to set them in the ■OFF position. No sound comes out of the front speakers.

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

Muting the Sound

MUTE

Remote: Outside

From the remote control *only*:

To mute the sound through all the speakers and headphones connected, press MUTE so that "MUTE" appears on the display and the volume turns off.

To cancel the mute, press MUTE again so that "OFF" appears on the display.
Turning MASTER VOLUME or pressing VOLUME +/– also restores the sound at the previous volume level.

Recording a Source

You can record any source playing through the receiver to the cassette deck connected to the TAPE 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, SEA, and surround modes cannot affect the recording.
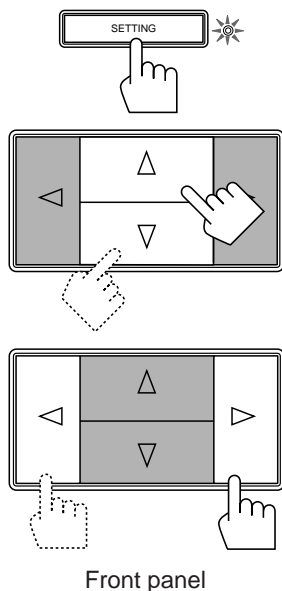
Page 14

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.

☞MENU

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.

On the front panel:

1. **Press SETTING so that the Control △ / ▽ / ◁ / ▷ buttons work for adjusting the balance.**
    The lamp next to the button lights up.

2. **Press Control △ / ▽ until "BALANCE" appears on the display.**

3. **Press Control ◁ / ▷ to adjust the balance.**
    • Pressing Control ◁ decreases the right channel output.
    • Pressing Control ▷ decreases the left channel output.

From the remote control:

Press BALANCE L/R (–/+).
• Pressing BALANCE L (–) decreases the right channel output.
• Pressing BALANCE R (+) decreases the left channel output.
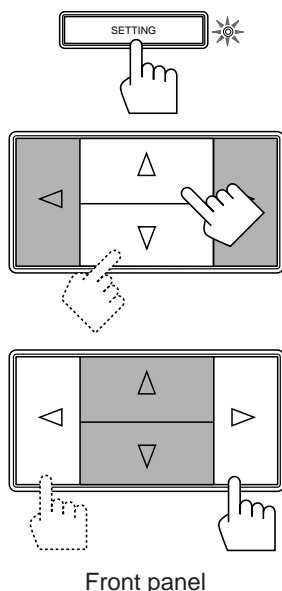
Front panel

☞MENU

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.

Note:
The loudness function affects the front speaker sounds only.
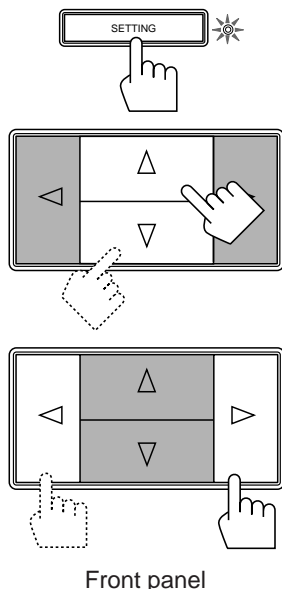
On the front panel *only*:

1. **Press SETTING so that the Control △ / ▽ / ◁ / ▷ buttons work for setting the loudness function.**
    The lamp next to the button lights up.

2. **Press Control △ / ▽ until "LOUDNESS" appears on the display.**

3. **Press Control ◁ / ▷ to set the loudness function to "ON" or "OFF."**
    • Select "ON " to activate the loudness function.
      The LOUDNESS indicator lights up on the display.
    • Select "OFF" to cancel it.
      The indicator goes off.

Front panel

**Page 15**

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.

SETTING

On the front panel:

1. **Press SETTING so that the Control △ / ▽ / ◁ / ▷ buttons work for setting the Sleep Timer.**
   The lamp next to the button lights up.

2. **Press Control △ / ▽ until "<SLEEP>" appears on the display.**

3. **Press Control ◁ / ▷ to set the shut-off time.**
   Each time you press the button, the shut-off time on the display changes as follows:
   The SLEEP indicator lights up on the display.

   → 10 ↔ 20 ↔ 30 ↔ 40 ↔ 50 ↔ 60 ↔ 70 ↔ 80 ↔
   → 0 (Canceled) ←

Front panel
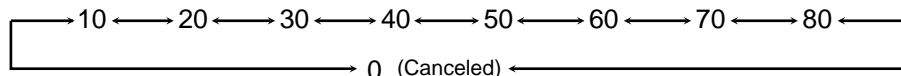
When the shut-off time comes
The receiver turns off (into standby mode) automatically.

To check or change the time remaining until the shut-off time
1. Press SETTING, if necessary, so that the Control △ / ▽ / ◁ / ▷ buttons work for setting the Sleep Timer.
2. Press Control △ / ▽, if necessary, until "<SLEEP>" appears on the display.
3. Press Control ◁ / ▷ once.
   The remaining time until the shut-off time appears in minutes.
   • To change the shut-off time, press Control ◁ / ▷ repeatedly.

To cancel the Sleep Timer
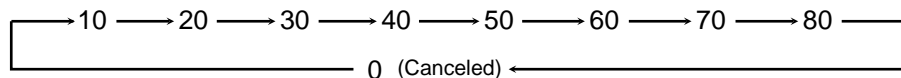Press Control ◁ / ▷ repeatedly in step 3 above until "0" appears on the display. (The SLEEP indicator goes off.) Turning off the power (into standby mode) also cancels the Sleep Timer.

From the remote control:

SLEEP

Press SLEEP repeatedly.
The SLEEP indicator lights up and the shut-off time appears on the display.
Each time you press the button, the shut-off time on the display changes as follows:

→ 10 → 20 → 30 → 40 → 50 → 60 → 70 → 80 →
→ 0 (Canceled) ←

Remote: Outside

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 (into standby mode) also cancels the Sleep Timer.

English

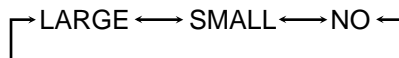## Selecting the Center Speaker Size

You can register the information on the center speaker after all connections are completed.
If you do this registration first, you do not have to adjust the center speaker mode when you want to activate the Dolby Surround. However, to register the information, first you have to set the surround mode either to "PROLOGIC" or "3CHLOGIC." (You cannot select the center speaker size when the surround mode is "SURR OFF" or "HALL.")
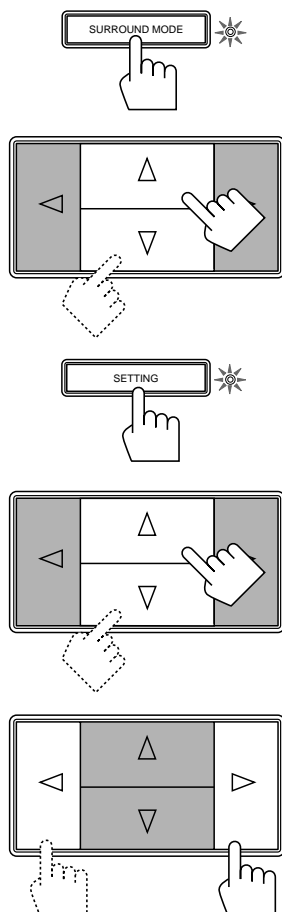
SURROUND MODE

On the front panel *only***:**

1. **Press SURROUND MODE so that the Control △ / ▽ buttons work for selecting the surround mode.**
   The lamp next to the button lights up.

2. **Press Control △ / ▽ until "PROLOGIC" or "3CHLOGIC" whichever you want appears on the display.**
   The PRO LOGIC or 3CH LOGIC indicator (as well as the SURROUND indicator) also lights up.

3. **Press SETTING so that the Control △ / ▽ / ◁ / ▷ buttons work for selecting the center speaker size.**
   The lamp next to the button lights up.

SETTING

4. **Press Control △ / ▽ until "CNTR SPK" (Center Speaker) appears on the display.**

5. **Press Control ◁ / ▷ to select the appropriate item about your center speaker.**
   Each time you press the button, the display changes to show the following:

   LARGE ⟷ SMALL ⟷ NO

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. (You cannot select this mode when "3CHLOGIC" is selected for the surround mode.)

Front panel

Note:
This center speaker size setting is so related to the center mode setting for the Dolby Surround mode that changing this setting affects and changes the center mode to a relevant mode, and vice versa.
For example;
• If you select "LARGE," the center mode is automatically set to "WIDE," and vice versa.
• If you select "SMALL," the center mode is automatically set to "NORMAL," and vice versa.
• If you select "NO," the center mode is automatically set to "PHANTOM" for Pro Logic and vice versa.
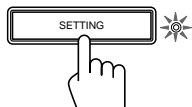
Using Visual Confirmation

When you operate the receiver, you can see what you are doing, by showing it on the TV screen.
To use this function, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 10), and set the TV's input mode to the proper position to which the receiver is connected.
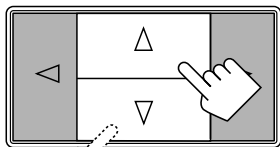When the TV's input mode is for TV, you cannot see the on-screen display.

On the front panel *only*:

1. **Press SETTING so that the Control △ / ▽ / ◁ / ▷ buttons work for setting Visual Confirmation.**
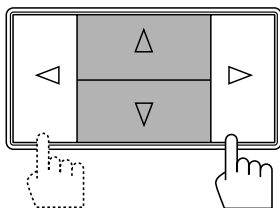   The lamp next to the button lights up.

2. **Press Control △ / ▽ until "VCONFIRM" appears on the display.**

3. **Press Control ◁ / ▷ to set Visual Confirmation to "ON" or "OFF."**
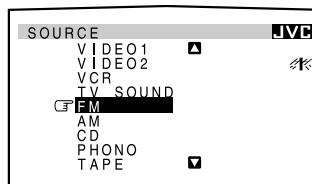   • Select "ON " to activate Visual Confirmation.
     The VISUAL CONFIRMATION indicator lights up on the display.
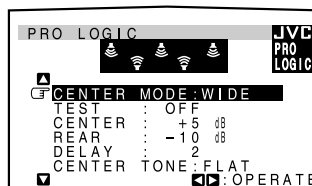   • Select "OFF" to cancel it.
     The indicator goes off.

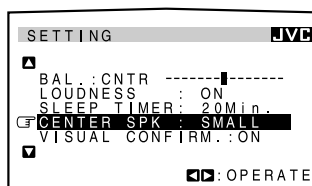SETTING

Front panel

EXAMPLES:

When changing the source:

```
SOURCE                    JVC
      V I DEO 1    ▲
      V I DEO 2            ⚞
      VCR
      TV  SOUND
  ☞ FM
      AM
      CD
      PHONO
      TAPE         ▼
```

The SOURCE menu appears on the TV screen for about 5 seconds.

When adjusting the Pro Logic settings:

```
PRO  LOGIC               JVC
                         PRO
                         LOGIC
  ▲
  ☞ CENTER  MODE : W I DE
    TEST      :  OFF
    CENTER    :   + 5  dB
    REAR      :  − 10  dB
    DELAY     :    2
    CENTER  TONE : FLAT
  ▼              ◁▷ : OPERATE
```

The PRO LOGIC adjustment menu appears on the TV screen for about 5 seconds.

When adjusting the center speaker size:

```
SETTING                  JVC
  ▲
    BAL . : CNTR  − − − − − ▮ − − − − − −
    LOUDNESS     :  ON
    SLEEP  T IMER :  20M i n .
  ☞ CENTER  SPK  :  SMALL
    V I SUAL  CONF I RM . : ON
  ▼

                ◁▷ : OPERATE
```

The SETTING menu appears on the TV screen for about 5 seconds.

One Touch Operation

This receiver can memorize the optimum sound settings for each playing source.

About the 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 don't 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 13)
• Balance (see page 15)
• Loudness (see page 15)
• SEA modes (see page 27)
• Surround mode settings (see page 29)

Note:
If the source is FM or AM (MW/LW), the One Touch Operation function works only when the preset channels from 1 — 20 are tuned in. You can assign a different setting for each preset channel.

Using the One Touch Operation

ONE TOUCH
OPERATION

Front panel

To store the sound settings

1. **Press ONE TOUCH OPERATION.**
    The ONE TOUCH OPERATION lamp lights up, then the previously memorized settings are recalled and appear on the display in turn.

2. **Adjust the sound using the functions listed above.**
    The newly adjusted settings are memorized.

ONE TOUCH
OPERATION

Remote: Outside

To recall the sound settings

With the ONE TOUCH OPERATION lamp lit, the settings for the currently selected source is recalled, and appears on the display when the source is selected.

To cancel the One Touch Operation function

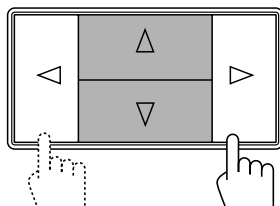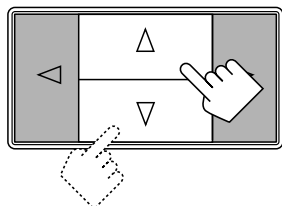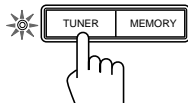Press ONE TOUCH OPERATION so that the lamp goes off.
(Even though the One Touch Operation function is canceled, the recalled sound effects remain active.)

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 TUNER so that the Control △ / ▽ / ◁ / ▷ buttons work for tuner settings.**
   The lamp next to the button lights up.

2. **Press Control △ / ▽ until "<FM AM>" appears on the display.**

3. **Press Control ◁ / ▷ to select the band.**
   Each time you press the button, the band alternates between FM and AM (MW/LW).

4. **Press Control △ / ▽ until "–TUNING+" appears on the display.**

5. **Press Control ◁ / ▷ until you find the frequency you want.**
   • Pressing Control ◁ decreases the frequency.
   • Pressing Control ▷ increases the frequency.

Notes:
• *When you hold down Control ◁/▷ in step 5, the frequency keeps changing until you press the button 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.*

Front panel

Using 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

On the front panel *only*:

1. **Tune in the station you want to preset (see above).**
   If you want to store the FM reception mode for this station, select the FM reception mode you want. See page 21 for details.

2. **Press MEMORY (next to the TUNER button).**
   "CH-" appears and the channel number position starts flashing on the display for about 5 seconds.

3. **Press Control △ / ▽ to select a channel number while the channel number position is flashing.**
   • Pressing Control △ increases the number.
   • Pressing Control ▽ decreases the number.

   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 tuner, not for the CD and others. (See page 42.)

4. **Press MEMORY (next to the TUNER button) 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 cancel a stored preset station
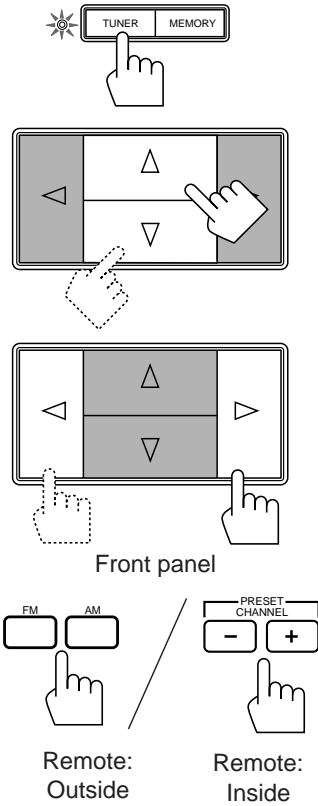Storing a new station on a used number erases the previously stored one.

Front panel

Page 20
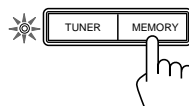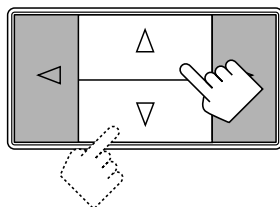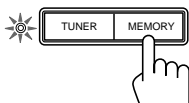
CAUTION:
The preset channels may be erased in the following cases:
• When you press ⏻ POWER to set it in the ■ OFF position.
• When you unplug the power cord.
• When a power failure occurs.

Tuning in a preset station

On the front panel:

1. **Press TUNER so that the Control △ / ▽ / ◁ / ▷ buttons work for tuner settings.**
   The lamp next to the button lights up.

2. **Press Control △ / ▽ until "–PRESET+" appears on the display.**

3. **Press Control ◁ / ▷ to select a preset channel.**
   Each time you press the button, the preset channels changes.
   • Pressing Control ◁ changes preset channels in decreasing order.
   • Pressing Control ▷ changes preset channels in increasing order.

From the remote control:

1. **Press FM or AM.**
   The last received station of the selected band is tuned in.

2. **Open the outside panel of the remote control and press PRESET CHANNEL +/–.**

   To select a preset channel number directly, press 10 keys on the inside panel.
   • For channel number 5, press 5.
   • For channel number 15, press +10 then 5.
   • For channel number 20, press +10 then 10.
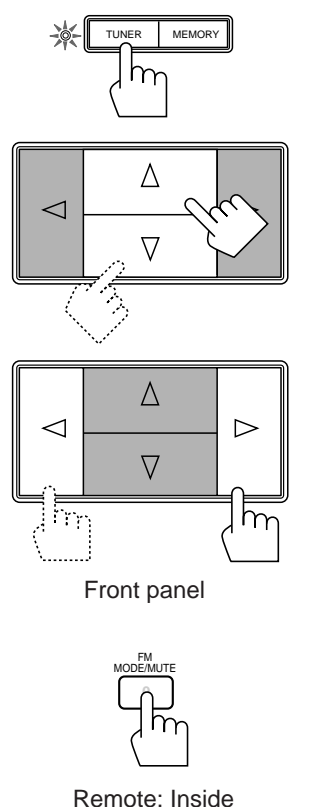   • For channel number 30, press +10, +10, then 10.

   Note:
   When you use the 10 keys on the remote control, be sure that they are activated for tuner, not for the CD and others. (See page 42.)

Front panel

Remote:
Outside

Remote:
Inside

☞MENU

Selecting the FM Reception Mode

You can change the FM reception mode while listening an FM broadcast.
You can also store the FM reception mode for each preset station. (See page 20.)

On the front panel:

1. **Press TUNER so that the Control △ / ▽ / ◁ / ▷ buttons work for tuner settings.**
   The lamp next to the button lights up.

2. **Press Control △ / ▽ until "FM MODE" appears on the display.**

3. **Press Control ◁ / ▷ to select either "AUTO" or "MONO."**
   • Normally select "AUTO."
   • When an FM stereo broadcast is hard to receive or noisy, select "MONO."

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

Front panel

From the remote control:

Press FM MODE/MUTE.
Each time you press the button, "AUTO" and "MONO" alternately appears on the display.

Note:
When you use the FM MODE/MUTE button, be sure that 10 keys are activated for tuner, not for the CD and others. (See page 42.)

Remote: Inside
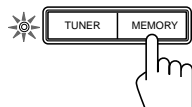
Page 21

☞MENU

Assigning Names to Preset Stations

You can assign a name of up to five characters to each preset station (from preset 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 (preset channel number 1 to 20).**
   See page 21 for details.
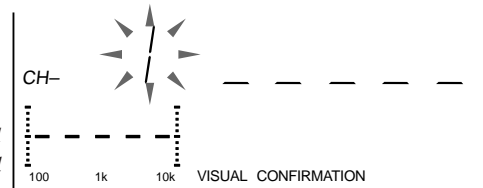
TUNER   MEMORY

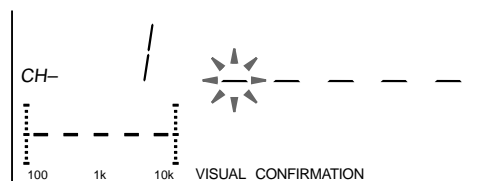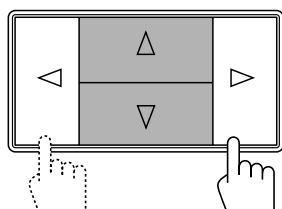2. **Press MEMORY (next to the TUNER button).**
   The preset channel number starts flashing.

   Note:
   If you press Control △ / ▽ while the preset channel number is flashing, you can change the preset channel number.
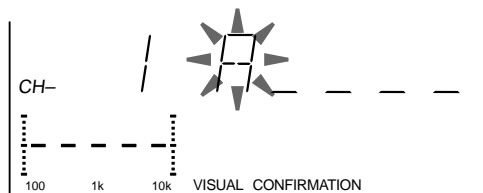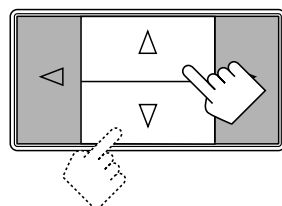
CH–

100   1k   10k   VISUAL CONFIRMATION

△
◁   ▷
▽

3. **Press Control ▷ (or ◁) until the first character position starts flashing.**

CH–

100   1k   10k   VISUAL CONFIRMATION

△
◁   ▷
▽

4. **Press Control △ / ▽ to select a character.**
   You can use characters listed below.

CH–

100   1k   10k   VISUAL CONFIRMATION

△
◁   ▷
▽

5. **When a character you want appears, press Control ▷ (or ◁).**
   The next (or previous) character position starts flashing.

CH–

100   1k   10k   VISUAL CONFIRMATION
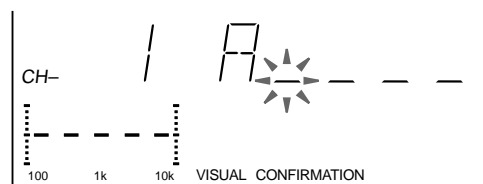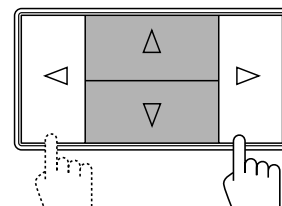
6. **Repeat steps 4 and 5 to enter up to five characters.**

TUNER   MEMORY

7. **Press MEMORY (next to the TUNER button) again while the last selected character is flashing, after you have assigned a name.**
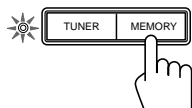
Front panel

To erase the input characters

Insert blanks using the same procedure described above.

Available characters

△
◁
▽

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 |

Page 22

Using the RDS (Radio Data System) to Receive FM Stations
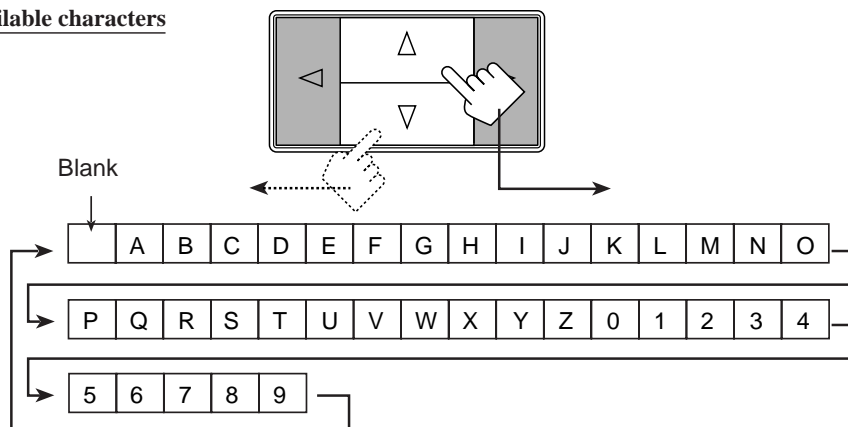
R·D·S EON

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

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

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

PS (Program Service) : shows commonly known station names
PTY (Program Type) : shows types of broadcast programs
RT (Radio Text) : shows text messages the station sends

About characters shown on the display

When the display shows PS, PTY, or RT signals, the following characters are used.
• The display cannot differentiate upper case and lower case letters and always uses upper case letters.
• The display cannot show accented letters, "A", for instance, may stand for accented "A's" like "Å, Ä, Ã, Á, À, and Â."

A	A, Å, Ã, Ã, Á, À, Â	K	K	U	U, Ü, Ú, Ù, Û	0	0	⚹	*	⟨	<
B	B	L	L	V	V	1	1	†	+	⟩	>
C	C, Ć, Ĉ	M	M	W	W	2	2	–	-	=	=
D	D, Đ	N	N, Ñ	X	X	3	3	/	,	\	\
E	E, Ë, É, È, Ê	O	O, Ö, Õ, Ô, Ò, Ô, Ø	Y	Y	4	4	\	.	/	'
F	F	P	P	Z	Z, Ź, Ž	5	5	/	/	‖	‖
G	G	Q	Q			6	6	–	–		
H	H	R	R, Ŕ, Ř			7	7	–	–		
I	I, Ï, Í, Ì, Î	S	S, Ś, Š			8	8	–	–		
J	J	T	T			9	9	/				

Note:
RDS may not operate correctly if the station tuned is not transmitting data properly or if the signal strength is weak.

What Information Can RDS Signals Provide?
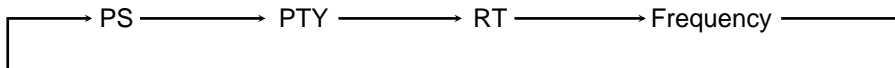
You can see the RDS signals the station sends.

DISPLAY MODE

Front panel

To show the RDS signals

Press DISPLAY MODE while listening to an FM station.

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

→ PS → PTY → RT → Frequency →

PS (Program Service):
While searching, "PS" appears and then the station names will be displayed. "NO PS" appears if no signal is sent.
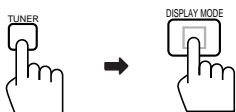
PTY (Program Type):
While searching, "PTY" appears and then the type of the broadcast program will be displayed. "NO PTY" appears if no signal is sent.

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

Station Frequency:
Station frequency (non-RDS service)

When pressing DISPLAY MODE on the remote control:
Make sure that you have selected FM station using the remote control only.
If not, the DISPLAY MODE button does not work for tuner operation. (Pressing TUNER (on the remote mode section of the inside panel) activates the remote control for tuner operation.)

Remote: Inside

Notes:
- *If searching finishes at once, "PS", "PTY", and "RT" will not appear on the display.*
- *If you press DISPLAY MODE while listening to an AM (MW/LW) station, the display only shows station frequency.*
- *RDS is not available for AM (MW/LW) broadcasts.*

☞MENU

Searching for a Program by PTY Codes

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

To search for a program using the PTY codes
On the front panel:
1. **Press PTY SEARCH while listening to an FM station so that Control ◁ / ▷ buttons work for selecting PTY code.**
   "PTY" and "SELECT" alternate on the display.

2. **Press Control ◁ / ▷ until the PTY code you want appears on the display.**
   Each time you press the button, the display gives you the PTY codes described on page 25.

3. **Press PTY SEARCH again.**
   While searching, "SEARCH" and the selected PTY code alternate on the display.
   The receiver searches 40 preset channels, stops when it finds the one you have selected, and tunes in that station.

To continue searching after the first stop:
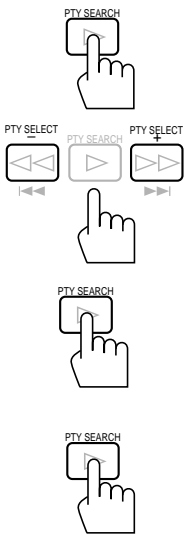Press PTY SEARCH again while the indications on the display are flashing.
If no program is found, "NOTFOUND" appears on the display.

To stop searching any time during the process:
Press PTY SEARCH while searching.

Front panel

Page 24
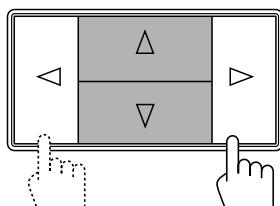
From the remote control:

Before starting the procedure below, make sure you have selected FM station only using the remote control. If not, the following RDS operating buttons do not work for tuner operation. (Pressing TUNER (on the remote mode section of the inside panel) activates the remote control for tuner operation.)
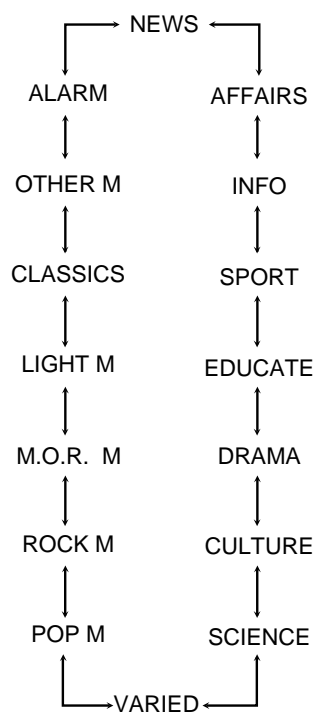
PTY SEARCH

1. Press PTY SEARCH while listening to an FM station.
"PTY" and "SELECT" alternate on the display.

PTY SELECT –   PTY SEARCH   PTY SELECT +

2. Press PTY SELECT +/– until the PTY code you want appears on the display.
The display gives you the PTY codes described below.

PTY SEARCH

3. Press PTY SEARCH again.
While searching, "SEARCH" and the selected PTY code alternate on the display.
The receiver searches 40 preset channels, stops when it finds the one you have selected, and tunes in that station.

PTY SEARCH

To continue searching after the first stop:
Press PTY SEARCH again while the indications on the display are flashing.
If no program is found, "NOTFOUND" appears on the display.

Remote: Inside

To stop searching any time during the process:
Press PTY SEARCH while searching.

NEWS
ALARM   AFFAIRS
OTHER M   INFO
CLASSICS   SPORT
LIGHT M   EDUCATE
M.O.R. M   DRAMA
ROCK M   CULTURE
POP M   SCIENCE
VARIED

Descriptions of the PTY codes:

NEWS:	News
AFFAIRS:	Topical programs expanding on the current news or affairs
INFO:	Programs on medical service, weather forecast, etc.
SPORT:	Sports events
EDUCATE:	Educational programs
DRAMA:	Radio plays
CULTURE:	Programs on national or regional culture
SCIENCE:	Programs on natural sciences and technology
VARIED:	Other programs like comedies or ceremonies
POP M:	Pop music
ROCK M:	Rock music
M.O.R. M:	Middle-of-the-road music (usually called "easy listening")
LIGHT M:	Light music
CLASSICS:	Classics
OTHER M:	Other music
ALARM:	Emergency broadcast
NONE:	Undefined (this cannot be searched.)

When an emergency broadcast (ALARM signal) is sent from an FM station:
The receiver automatically switches the source to FM and tunes in the station except in the following cases:
• When you are listening to non-RDS stations (all AM (MW/LW) and some FM stations).
• When the receiver is in standby mode.
While receiving an emergency broadcast, "ALARM" appears on the display.

Switching to a Broadcast Program of Your Choice Temporarily

Another convenient RDS service is called "EON (Enhanced Other Network)."
This allows the receiver to switch temporarily to a broadcast program of your choice (NEWS, TA, and/or INFO) from a different station except in the following cases:
• When you are listening to a non-RDS stations (all AM (MW/LW) and some FM stations).
• When the last received FM station is a non-RDS station.

On the front panel *only:*

EON

1. Press EON so that the last selected program type appears on the display.
The receiver enters EON standby mode.

2. Press TA/NEWS/INFO until the program type you want appears on the display.
Each time you press the button, the display changes to show the following.

TA/ NEWS /INFO

Front panel

```
  ┌──→ TA ──→ NEWS/INFO ──→ TA/INFO ──→ TA/NEWS ─┐
  └── NEWS ←──── INFO ←──── TA/NEWS/INFO ←────────┘
```
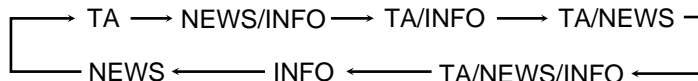
TA: Traffic Announcement in your area.
NEWS: News.
INFO: Programs on medical service, weather forecast, etc.

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

The receiver continues playing the current source.

⬇

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

⬇

When the program is over, the receiver goes back to the previously selected source, but still remains in EON standby mode.

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

The receiver stops playing the current source, and tunes in the program. The indicator of received PTY code starts flashing.

⬇

When the program is over, the receiver goes back to the previously selected source, but still remains in EON standby mode.

EON

Front panel

To stop listening to the program selected by EON:
Press EON so that the program type (TA/NEWS/INFO) goes off from the display. The receiver enters EON off mode and goes back to the previously selected source.
Each time you press EON, the EON mode alternates between standby mode and off mode.

Notes:
• *In EON standby mode, if you change the source to AM (MW/LW) or if you carry out synchronized recording (see page 41), EON standby mode is canceled temporarily. The receiver goes back to EON standby mode again when you have finished that operation.*
• *While listening to a program tuned in by the EON function, you can only use STANDBY/ON ⏻/|, EON, and DISPLAY MODE on the front panel or AUDIO ⏻/| and DISPLAY MODE on the remote control.*
• *When the receiver is turned off (into standby mode), the EON function is also turned off.*

CAUTION:
When the source alternates intermittently between the station tuned in by the EON function and the currently selected source, press EON to cancel the EON function. This is not a malfunction of the receiver.

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Using the SEA Modes

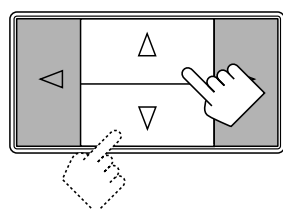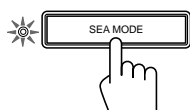The SEA (Sound Effect Amplifier) modes give you control of the way your music sounds.

Note:
*The SEA modes cannot be used for recording.*

See also
page 39.

☞MENU

Selecting Your Favorite SEA Mode

SEA MODE

Front panel

On the front panel:

1. **Press SEA MODE so that the Control △ / ▽ buttons work for selecting the SEA mode.**
   The lamp next to the button lights up.

2. **Press Control △ / ▽ until the mode you want appears on the display.**
   Each time you press the button, the SEA mode changes as follows:

   ```
   ┌─→ROCK←──→MUSICAL←──→MOVIE←──→COUNTRY←─┐
   └──→ SEA OFF ←──→ USERMODE ←──→JAZZ ←──┘
   ```
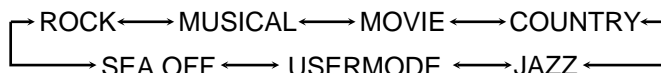
   Note:
   When the SEA mode is turned on, the SEA indicator lights up on the display.

ROCK:	Gives a heavy sound. Both high and low frequencies are boosted.
MUSICAL:	Enhance the mid-frequency range, which the human voice is mostly made up of.
MOVIE:	Adds breadth to sounds so you feel like you are in a movie theater.
COUNTRY:	Enhances the high-frequency range so that instruments such the violin and banjo are emphasized.
JAZZ:	Gives a feeling of a live atmosphere. Good for acoustic music.
USERMODE:	Your original SEA adjustment (see page 28).
SEA OFF:	No SEA mode is applied (see below).

   To cancel the SEA mode, press Control △ / ▽ until "SEA OFF" appears in step 2 above.
   The SEA indicator goes off from the display.

SEA
MODE

Remote: Outside

From the remote control:
Press SEA MODE repeatedly until the SEA mode you want appears on the display.
Each time you press the button, the SEA mode changes as follows:

```
┌─→ROCK──→MUSICAL──→MOVIE──→COUNTRY─┐
└── SEA OFF ←── USERMODE ←── JAZZ ←──┘
```
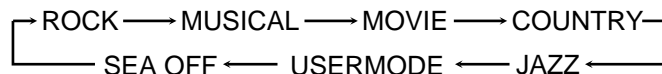
Note:
When the SEA mode is turned on, the SEA indicator lights up on the display.

To cancel the SEA mode, press SEA MODE repeatedly until "SEA OFF" appears on the display.
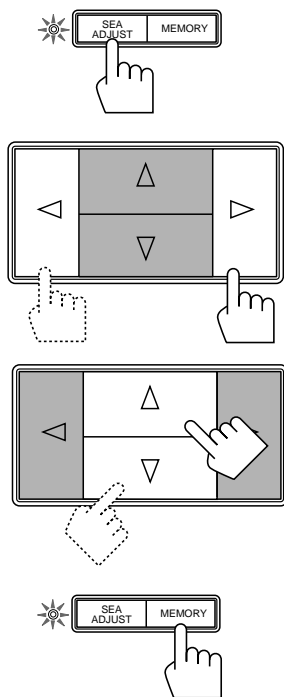The SEA indicator goes off from the display.
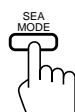
Creating Your Own SEA Mode

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

On the front panel *only*:

If you do not want to store your adjustment, but rather want to adjust the SEA temporarily, skip step 3 below.
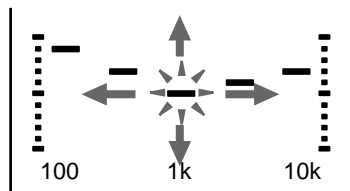
1. **Press SEA ADJUST so that the Control △ / ▽ / ◁ / ▷ buttons work for the SEA adjustment.**
   The lamp next to the button lights up.

2. **Adjust the SEA frequency and its level.**
   • Press Control ◁ / ▷ to select the frequency range to adjust.
   • Press Control △ / ▽ to adjust the level.

3. **Press MEMORY (next to the SEA ADJUST button).**
   Your adjustment is stored into USERMODE.

To recall your own SEA adjustment

See page 27.

To erase a stored adjustment

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

Front panel

Using the Surround Processor

The built-in surround processor provides three types of surround 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 reflections from behind. The reflected sounds are always delayed by the distances of the ceiling and walls from the listener. These reflections are some of the most important elements of the acoustic surround.

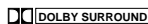Reflections from behind

Early reflections

Direct sound
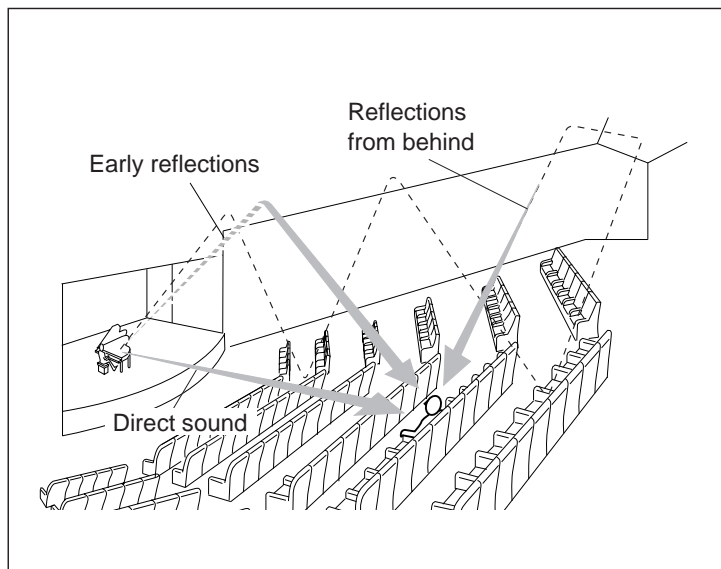
On JVC's Hall Surround

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

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 ⫫ DOLBY SURROUND * which includes the same encoded surround information as found in Dolby Stereo films, the receiver 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 (as well as a center speaker).
Dolby 3ch Logic: Select this mode when a center speaker is connected without rear speakers.

Manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby," the double-D symbol, and "Pro Logic" 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.*

MENU

Using JVC's Hall Surround

You need to connect one set of rear speakers to obtain the full effect.
Once you have adjusted the Hall Surround, the receiver memorizes the settings.

SURROUND MODE

△

▽

◁

Front panel

On the front panel:

1. **Press SURROUND MODE so that the Control △ / ▽ buttons work for selecting the surround modes.**
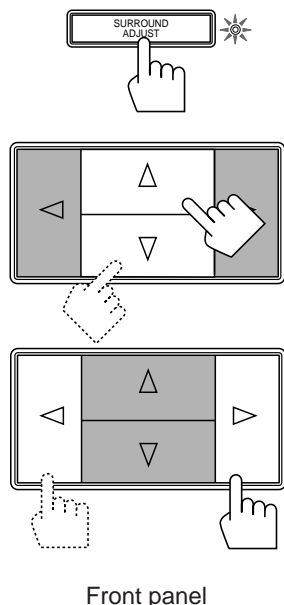   The lamp next to the button lights up.

2. **Press Control △ / ▽ until "HALL" appears on the display.**
   The HALL and SURROUND indicators also light up on the display.
   Each time you press the button, the surround modes change as follows (the indicator of the selected surround mode also lights up on the display):

   PROLOGIC ⟷ 3CHLOGIC ⟷ HALL

   SURR OFF
   (Surround Off)
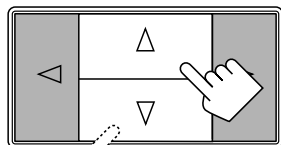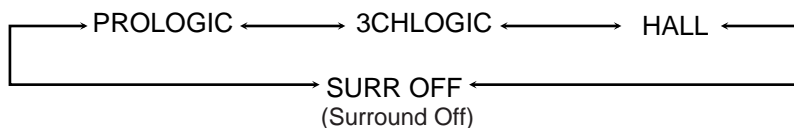
3. **Press SURROUND ADJUST so that the Control △ / ▽ / ◁ / ▷ buttons work for surround settings.**
   The lamp next to the button lights up.

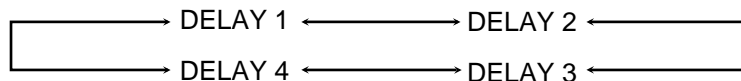4. **Press Control △ / ▽ until "– REAR +" appears on the display.**

5. **Press Control ◁ / ▷ to adjust the rear speaker output level.**
   • Pressing Control ◁ decreases the output level up to –10 dB.
   • Pressing Control ▷ increases the output level up to +10 dB.

6. **Press Control △ / ▽ until "–DELAY +" appears on the display.**

7. **Press Control ◁ / ▷ to adjust the delay time of the rear speaker output.**
   Each time you press the button, the delay time changes as follows:

   DELAY 1 ←→ DELAY 2
   DELAY 4 ←→ DELAY 3

Front panel

DELAY 1	Select this when the distance from you to your rear speakers is greater than that to the front speakers.
DELAY 2	Select this when the distance from you to your rear speakers is almost equal to that to the front speakers.
DELAY 3	Select this when the distance from you to your rear speakers is a little less than that to the front speakers.
DELAY 4	Select this when the distance from you to your rear speakers is much less than that to the front speakers.

To cancel the Hall surround, press Control △ / ▽ until "SURR OFF" appears in step 2.
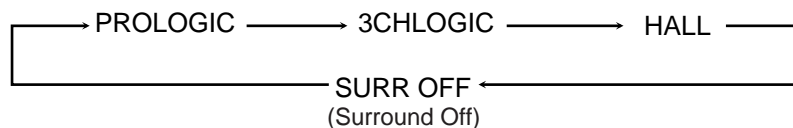The HALL and SURROUND indicators go off.

Remote: Outside
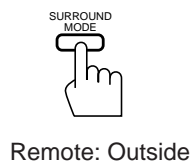
From the remote control:

1. **Press SURROUND MODE repeatedly until "HALL" appears on the display.**
   The HALL and SURROUND indicators also light up on the display.
   Each time you press the button, the surround modes change as follows (the indicator of the selected surround mode also lights up on the display):

   PROLOGIC ⟶ 3CHLOGIC ⟶ HALL
   SURR OFF
   (Surround Off)

2. **Open the outside panel and press SOUND CONTROL on the remote mode section.**

3. **Press REAR +/– to adjust the rear speaker output level.**
   • Pressing REAR – decreases the output level up to –10 dB.
   • Pressing REAR + increases the output level up to +10 dB.

4. **Press DELAY to adjust the delay time.**
   Each time you press the button, the delay time changes as follows:

   DELAY 1 ⟶ DELAY 2
   DELAY 4 ← DELAY 3
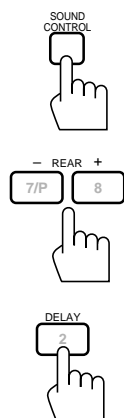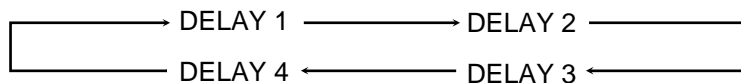
To cancel the Hall Surround, press SURROUND MODE until "SURR OFF" appears on the display.
The HALL and SURROUND indicators go off.

Remote: Inside

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.

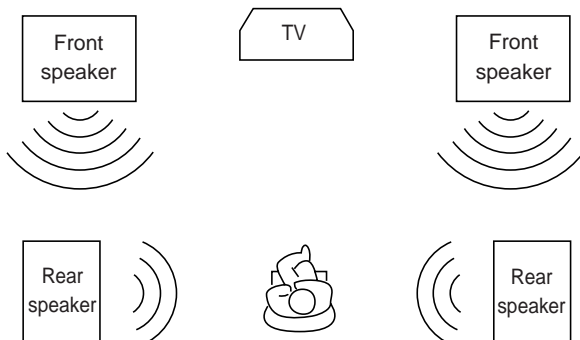**CASE 1**   **When you have added a center speaker and rear speakers**

Front speaker

TV

Center speaker

Front speaker

Rear speaker
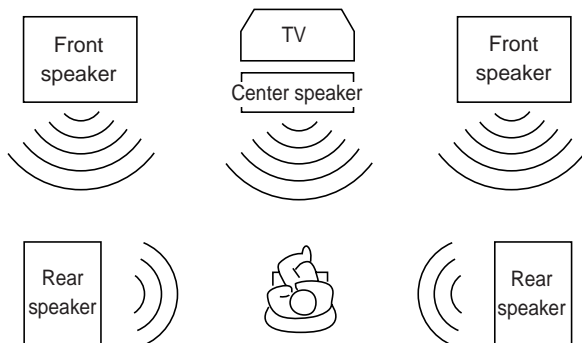
Rear speaker

In this case:

1. Select "PROLOGIC."
2. Select "NORMAL" or "WIDE" for center mode.

See pages 32 to 35 for more details.

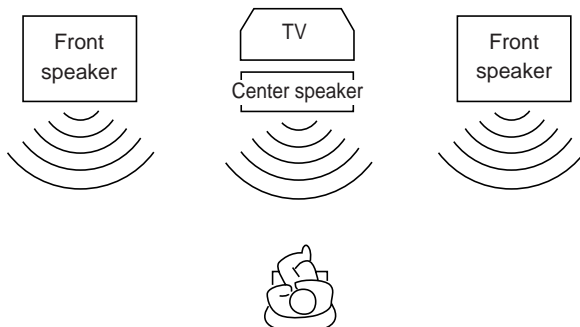**CASE 2**   **When you have added rear speakers (without a center speaker)**

Front speaker

TV

Front speaker

Rear speaker

Rear speaker

In this case:

1. Select "PROLOGIC."
2. Select "PHANTOM" for center mode.

See pages 32 to 35 for more details.

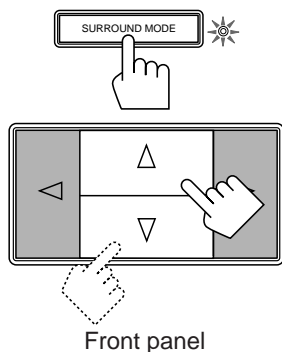**CASE 3**   **When you have added a center speaker (without rear speakers)**

Front speaker

TV

Center speaker

Front speaker

In this case:

1. Select "3CHLOGIC."
2. Select "NORMAL" or "WIDE" for center mode.

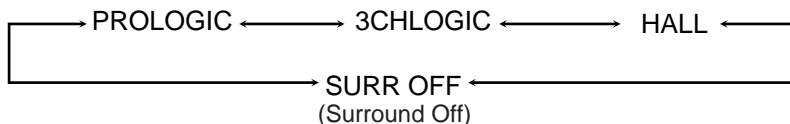*See pages 32 to 35 for more details.*

Page 31

The receiver memorizes two sets of Dolby Surround adjustments; one for Pro Logic and the other for 3ch Logic.
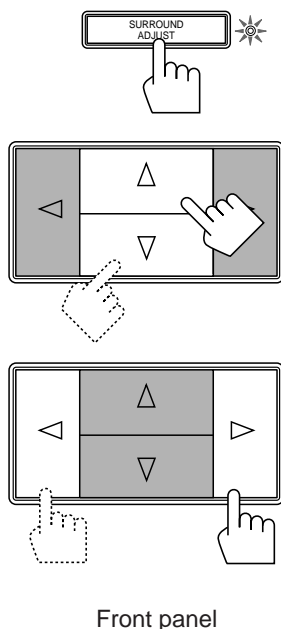
On the front panel:

1. **Press SURROUND MODE so that the Control △ / ▽ buttons work for selecting the surround modes.**
   The lamp next to the button lights up.

Front panel

2. **Press Control △ / ▽ until "PROLOGIC" or "3CHLOGIC" whichever you want appears on the display.**
   The PRO LOGIC or 3CH LOGIC indicator (as well as the SURROUND indicator) also lights up.
   Each time you press the button, the surround modes change as follows (the indicator of the selected surround mode also lights up on the display):

   PROLOGIC ⟷ 3CHLOGIC ⟷ HALL
   SURR OFF
   (Surround Off)

PROLOGIC	Select this mode to watch a video source with Dolby Surround when you have connected the rear speakers (and a center speaker).
3CHLOGIC	Select this mode to watch a video source with Dolby Surround when you have connected a center speaker and no rear speakers.
HALL	This is JVC's original surround mode, and is different from Dolby Surround. To use this, see page 29.
SURR OFF	No surround mode is applied.

3. **Press SURROUND ADJUST so that the Control △ / ▽ / ◁ / ▷ buttons work for adjusting the surround mode.**
   The lamp next to the button lights up.

4. **Press Control △ / ▽ until "CNT MODE" (Center Mode) appears on the display.**

5. **Press Control ◁ / ▷ to select the center mode.**
   Each time you press the button, the center modes change as follows:

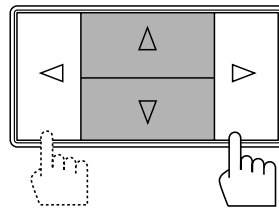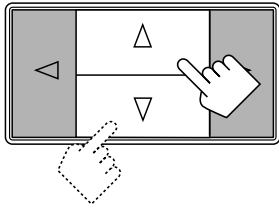   WIDE ⟷ NORMAL ⟷ PHANTOM
   OFF

Front panel
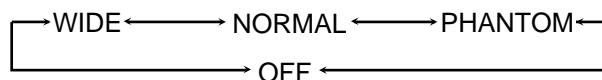
WIDE	Select this mode when the center speaker can reproduce the bass better than the front speakers. All signals of the center channel are output through the center speaker.
NORMAL	Select this mode when the center speaker cannot reproduce the bass better than the front speakers. The bass portions of the center channel signals are output through the front speakers.
PHANTOM	Select this mode when you do not use a center speaker. The center speaker channel signals are output through the front speakers.
OFF	Select this mode to turn off the center speaker channel.

Notes:
- *If you have already set the "center speaker size" following the procedure described on page 17, you do not have to select the center mode in this procedure.*
- *When you have selected "3CHLOGIC," you cannot select "PHANTOM."*

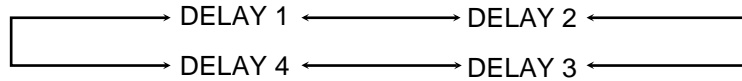**6. Press Control △ / ▽ until "–DELAY +" appears on the display.**

7. Press Control ◁ / ▷ to adjust the delay time of the rear speaker output.
Each time you press the button, the delay time changes as follows:

```
          ┌──────→ DELAY 1 ←──────→ DELAY 2 ←──────┐
          │                                        │
          └──────→ DELAY 4 ←──────→ DELAY 3 ←──────┘
```

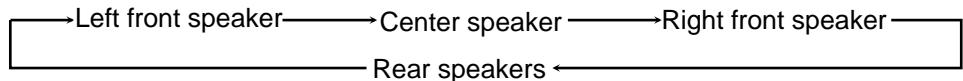| DELAY 1	Select this when the distance from you to your rear speakers is greater than that to the front speakers.
DELAY 2	Select this when the distance from you to your rear speakers is almost equal to that to the front speakers.
DELAY 3	Select this when the distance from you to your rear speakers is a little less than that to the front speakers.
DELAY 4	Select this when the distance from you to your rear speakers is much less than that to the front speakers.

Note:
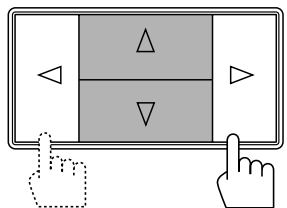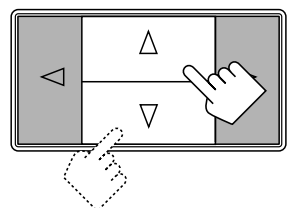*When you have selected "3CHLOGIC," you cannot adjust the delay time.*
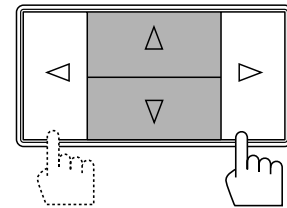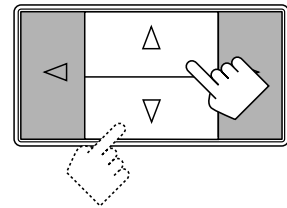
8. Press Control △ / ▽ until "TEST" appears on the display, then press Control ◁ / ▷ to start checking the speaker output balance.
"TEST" starts flashing on the display, and a test tone comes out of the speakers in the following order:

```
   ┌→ Left front speaker ──────→ Center speaker ──────→ Right front speaker ─┐
   │                                                                         │
   └─────────────────────── Rear speakers ←──────────────────────────────────┘
```

Notes:
- *No test tone comes out of the rear speakers when you have selected "3CHLOGIC."*
- *No test tone comes out of the center speaker when you select "PHANTOM" or "OFF" for the center mode.*

9. If necessary, adjust the speaker output level as follows:
- To adjust the rear speaker output level, press Control △ / ▽ until "– REAR +" appears on the display, then press Control ◁ / ▷.
- To adjust the center speaker output level, press Control △ / ▽ until "–CENTER+" appears on the display, then press Control ◁ / ▷.

Notes:
- *You cannot adjust the left and right rear speaker output level separately.*
- *You cannot adjust the rear speaker output level when you have selected "3CHLOGIC."*
- *You cannot adjust the center speaker output level when you select "PHANTOM" or "OFF" for the center mode.*

Front panel
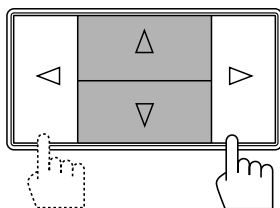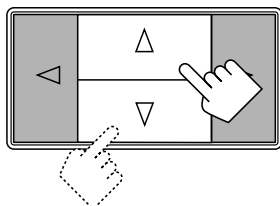
Front panel

Front panel

10. Press Control △ / ▽ until "TEST" appears on the display, then press Control ◁ / ▷ to stop the test tone.

11. Press Control △ / ▽ until "CNT TONE" (Center Tone) appears on the display.

12. Press Control ◁ / ▷ to select the center tone you want.
The center tone adjustment affects the mid-frequency range, which the human voice is mostly made up of.
Each time you press the button, the display changes to show the following:

SOFT2 ⟷ SOFT1 ⟷ FLAT ⟷ SHARP1 ⟷ SHARP2

To make the dialogue clearer, select "SHARP1" (little) or "SHARP2" (much).
To make the dialogue softer, select "SOFT1" (little) or "SOFT2" (much).
When "FLAT" is selected, no adjustment is applied.

Note:
The center tone cannot be adjusted when sounds do not come out of the center speaker.

Front panel

From the remote control:

Note:
If you want to use the remote control for adjusting the center mode and the center tone, use the menu function (see page 40).

1. Press SURROUND MODE until "PROLOGIC" or "3CHLOGIC" whichever you want appears on the display.
The PRO LOGIC or 3CH LOGIC indicator (as well as the SURROUND indicator) also lights up.
Each time you press the button, the surround modes change as follows (the indicator of the selected surround mode also lights up on the display):

PROLOGIC ⟶ 3CHLOGIC ⟶ HALL
SURR OFF ⟵
(Surround Off)
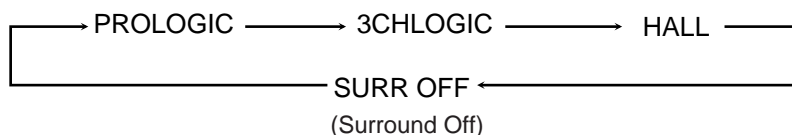
Remote: Outside

2. Open the outside panel and press SOUND CONTROL on the remote mode section.
The remote control is activated for adjusting the sound.
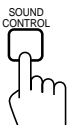
3. Press DELAY to adjust the delay time of the rear speaker output.
Each time you press the button, the delay time changes as follows:

DELAY 1 ⟶ DELAY 2
DELAY 4 ⟵ DELAY 3
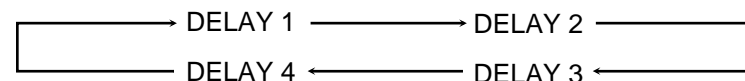
Note:
When you have selected "3CHLOGIC," you cannot adjust the delay time.

Remote: Inside

Continued to the next page

Page 34

TEST
6

Remote: Inside

4. Press TEST to start checking the speaker output balance.
"TEST" starts flashing on the display, and a test tone comes out of the speakers in the following order:

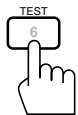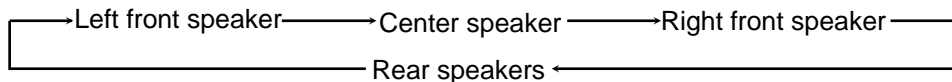→Left front speaker────────→Center speaker────────→Right front speaker────┐
└────────────────────────── Rear speakers ◀──────────────────────────────┘

Notes:
- *No test tone comes out of the rear speakers when you have selected "3CHLOGIC."*
- *No test tone comes out of the center speaker when you select "PHANTOM" or "OFF" for the center mode.*
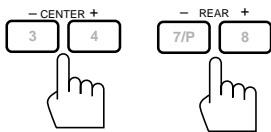
− CENTER +
3   4
− REAR +
7/P   8

Remote: Inside

5. If necessary, adjust the speaker output level as follows:
- To adjust the rear speaker output level, press REAR +/−.
- To adjust the center speaker output level, press CENTER +/−.

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

Notes:
- *You cannot adjust the left and right rear speaker output level separately.*
- *You cannot adjust the rear speaker output level when you have selected "3CHLOGIC."*
- *You cannot adjust the center speaker output level when you select "PHANTOM" or "OFF" for the center mode.*
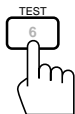
TEST
6

Remote: Inside

6. Press TEST again to stop the test tone.

Using Dolby Surround

Once you have set the Dolby Surround adjustments, you can use the same adjustment every time you want to enjoy Dolby Surround.
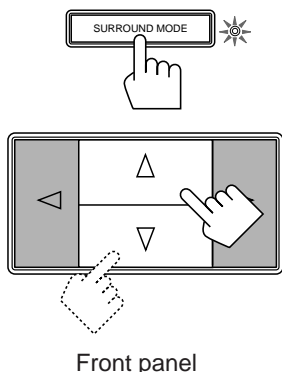The receiver memorizes two sets of Dolby Surround adjustment; one for Pro Logic and the other for 3ch Logic.

SURROUND MODE

△

◁

▽

Front panel

On the front panel:

1. **Press SURROUND MODE so that the Control △ / ▽ buttons work for selecting the surround modes.**
   The lamp next to the button lights up.

2. **Press Control △ / ▽ until "PROLOGIC" or "3CHLOGIC" whichever you want appears on the display.**
   The PRO LOGIC or 3CH LOGIC indicator (as well as the SURROUND indicator) also lights up.
   Each time you press the button, the surround modes change as follows (the indicator of the selected surround mode also lights up on the display):

   PROLOGIC ⟷ 3CHLOGIC ⟷ HALL
   SURR OFF
   (Surround Off)
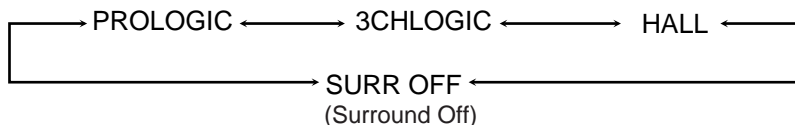
3. **Select and play a sound source which was processed with Dolby Surround and is labeled with ▢▢ DOLBY SURROUND mark.**

To cancel the surround mode, press Control △ / ▽ until "SURR OFF" appears in step 2 above.
The indicator of the selected mode goes off.

SURROUND MODE

Remote: Outside

From the remote control:
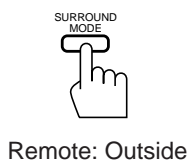
1. **Press SURROUND MODE until the surround mode you want appears on the display.**
   The PRO LOGIC or 3CH LOGIC indicator (as well as the SURROUND indicator) also lights up.
   Each time you press the button, the surround modes change as follows (the indicator of the selected surround mode also lights up on the display):

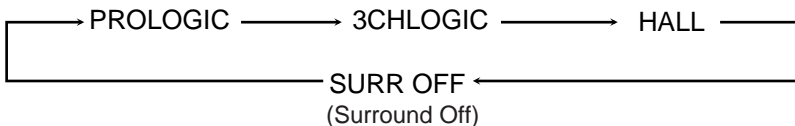   PROLOGIC → 3CHLOGIC → HALL
   SURR OFF
   (Surround Off)

2. **Select and play a sound source which was processed with Dolby Surround and is labeled with ▢▢ DOLBY SURROUND mark.**

To cancel the surround mode, press SURROUND MODE until "SURR OFF" appears on the display.
The indicator of the selected mode and the SURROUND indicator go off.

Using the On-Screen Display to Control the Receiver

You can use the menu function on the TV screen to control the receiver.
To use this function, you need to connect the TV to the MONITOR OUT jack on the rear panel (see page 10), and set the TV's input mode to the appropriate position to which the receiver is connected.
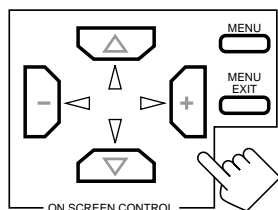When the TV's input mode is for TV, you cannot see the on-screen display.
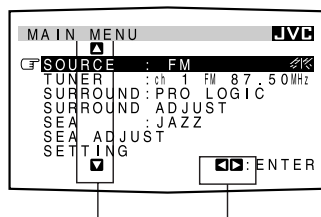
IMPORTANT:
When you use the menu functions, make sure that you have connected a TV and operate the menu function while watching the on-screen displays on the TV.

Basic Procedures

Menu function buttons

MENU
MENU
EXIT
−
+
ON SCREEN CONTROL

From the remote control:

1. **Press MENU.**
   The MAIN MENU appears on the TV screen.
   • If you press △ / ▽ / ◁ / ▷, a sub-menu you can adjust at that time appears on the TV screen instead of the MAIN MENU.

2. **Press △ / ▽ to move ☞ to the sub-menu you want to set, then press ◁ / ▷ .**
   The sub-menu you want appears.

3. **If necessary, press △ / ▽ / ◁ / ▷ to set or adjust the item you want on the selected sub-menu.**
   When a item is selected, the item will be highlighted.

   Note:
   Moving ☞ to an item does not mean that you have selected it. If the item is not highlighted, press ◁ / ▷ to highlight it.

4. **When you finish, press MENU EXIT.**
   The menu disappears from the TV.

To go back to the MAIN MENU any time during the process
Press MENU again.

MAIN MENU

```
MAIN MENU          JVC
         ▲
☞SOURCE   : FM        ⚡K
 TUNER    :ch 1 FM 87.50MHz
 SURROUND :PRO LOGIC
 SURROUND ADJUST
 SEA      :JAZZ
 SEA ADJUST
 SETTING
         ▼        ◁▶:ENTER
```

Shows the buttons you can use on the current menu. In this case, press △ / ▽ to move ☞ up and down, and ◁ / ▷ to select the item. (The menus are shown on the TV for about one minute.)

■ **Selecting the Source to Play** (Also see page 12)

1. **Press MENU.**
   The MAIN MENU appears on the TV.

2. **Press △ / ▽ to move ☞ to "SOURCE," then press ◁ / ▷.**
   The SOURCE menu appears.

3. **Press △ / ▽ to move ☞ to the source you want to play.**

4. **When you finish, press MENU EXIT.**
   The menu disappears from the TV.

SOURCE menu

```
SOURCE             JVC
    VIDEO1   ▲
    VIDEO2            ⚡K
    VCR
    TV SOUND
☞  FM
    AM
    CD
    PHONO
    TAPE     ▼
```
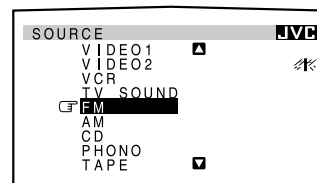
■ **Adjusting the Front Speaker Output Balance** (Also see page 15)

1. **Press MENU.**
   The MAIN MENU appears on the TV.

2. **Press △ / ▽ to move ☞ to "SETTING," then press ◁ / ▷.**
   The SETTING menu appears.

3. **Press △ / ▽ to move ☞ to "BAL." (Balance).**

4. **Press ◁ / ▷ repeatedly to adjust the balance.**

5. **When you finish, press MENU EXIT.**
   The menu disappears from the TV.

SETTING menu

```
SETTING            JVC
▲
☞BAL.:CNTR -------▌------
 LOUDNESS   : ON
 SLEEP TIMER: 20Min.
 CENTER SPK : SMALL
 VISUAL CONFIRM.:ON
▼
              ◁▶ OPERATE
```
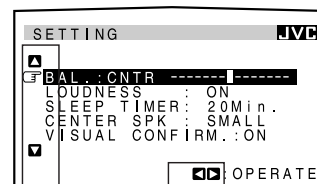
Shows the buttons you can use on the current menu. In this case, press △ / ▽ to move ☞ up and down, and ◁ / ▷ to adjust or set the item.

◼ Listening at Low Volume (Loudness) (Also see page 15)

1. **Press MENU.**
   The MAIN MENU appears on the TV.

2. **Press △ / ▽ to move ☞ to "SETTING," then press ◁ / ▷.**
   The SETTING menu appears.

3. **Press △ / ▽ to move ☞ to "LOUDNESS."**

4. **Press ◁ / ▷ to set the loudness function to "ON" or "OFF."**

5. **When you finish, press MENU EXIT.**
   The menu disappears from the TV.

SETTING menu

```
SETTING              JVC
▲
 BAL.:CNTR  -------▌-------
☞LOUDNESS       :  ON
 SLEEP TIMER: 20Min.
 CENTER SPK : SMALL
 VISUAL CONFIRM.:ON
▼
                 ◁▷:OPERATE
```

◼ Using the Sleep Timer (Also see page 16)

1. **Press MENU.**
   The MAIN MENU appears on the TV.

2. **Press △ / ▽ to move ☞ to "SETTING," then press ◁ / ▷.**
   The SETTING menu appears.

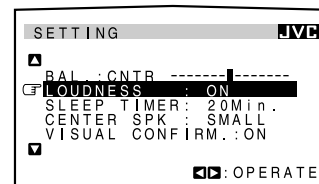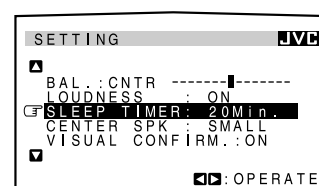3. **Press △ / ▽ to move ☞ to "SLEEP TIMER."**

4. **Press ◁ / ▷ to set the shut-off time.**

5. **When you finish, press MENU EXIT.**
   The menu disappears from the TV.

SETTING menu

```
SETTING              JVC
▲
 BAL.:CNTR  -------▌-------
 LOUDNESS       :  ON
☞SLEEP TIMER: 20Min.
 CENTER SPK : SMALL
 VISUAL CONFIRM.:ON
▼
                 ◁▷:OPERATE
```
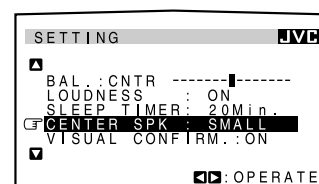
◼ Selecting the Center Speaker Size (Also see page 17)

Note:
When the surround mode is "OFF" or "HALL," you cannot select the center speaker size.

1. **Press MENU.**
   The MAIN MENU appears on the TV.

2. **Press △ / ▽ to move ☞ to "SETTING," then press ◁ / ▷.**
   The SETTING menu appears.

3. **Press △ / ▽ to move ☞ to "CENTER SPK" (Center Speaker).**

4. **Press ◁ / ▷ repeatedly until the appropriate center speaker size is selected.**

5. **When you finish, press MENU EXIT.**
   The menu disappears from the TV.

SETTING menu

```
SETTING              JVC
▲
 BAL.:CNTR  -------▌-------
 LOUDNESS       :  ON
 SLEEP TIMER: 20Min.
☞CENTER SPK : SMALL
 VISUAL CONFIRM.:ON
▼
                 ◁▷:OPERATE
```

◼ Using Visual Confirmation (Also see page 18)

1. **Press MENU.**
   The MAIN MENU appears on the TV.

2. **Press △ / ▽ to move ☞ to "SETTING," then press ◁ / ▷.**
   The SETTING menu appears.

3. **Press △ / ▽ to move ☞ to "VISUAL CONFIRM." (Visual Confirmation).**

4. **Press ◁ / ▷ to set Visual Confirmation to "ON" or "OFF."**

5. **When you finish, press MENU EXIT.**
   The menu disappears from the TV.

SETTING menu

```
SETTING              JVC
▲
 BAL.:CNTR  -------▌-------
 LOUDNESS       :  ON
 SLEEP TIMER: 20Min.
 CENTER SPK : SMALL
☞VISUAL CONFIRM.:ON
▼
                 ◁▷:OPERATE
```

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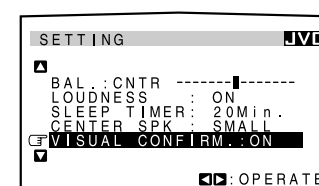
■ Operating the Tuner

1. Press MENU.
   The MAIN MENU appears on the TV.

2. Press △ / ▽ to move ☞ to "TUNER," then press ◁ / ▷.
   The TUNER menu appears.

3. Press △ / ▽ to move ☞ to the item you want to set or adjust, then press ◁ / ▷.
   On the TUNER menu, you can do the following:
   "CH.":   Select a preset channel station. (See page 21)
                          If you want to assign a name to a preset channel, see page 22.
   "BAND":   Select the band. (See page 20)
   "TUNING":   Tune in a station manually. (See page 20)
   "FM MODE":   Select the FM reception mode. (See page 21)
   "RDS Information":Shows the RDS Information on the screen. (See page 23)

4. When you finish, press MENU EXIT.
   The menu disappears from the TV.

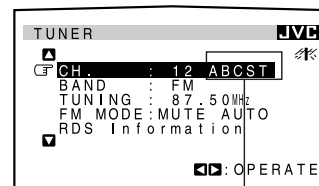## ■ Selecting Your Favorite SEA Mode (Also see page 27)

1. Press MENU.
   The MAIN MENU appears on the TV.

2. Press △ / ▽ to move ☞ to "SEA," then press ◁ / ▷.
   The SEA MODE menu appears.

3. Press △ / ▽ to move ☞ to the SEA mode you want.

4. When you finish, press MENU EXIT.
   The menu disappears from the TV.

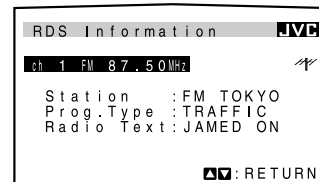## ■ Creating Your Own SEA Mode (Also see page 28)

1. Press MENU.
   The MAIN MENU appears on the TV.

2. Press △ / ▽ to move ☞ to "SEA ADJUST" then press ◁ / ▷.
   The SEA ADJUST menu appears.

3. Press △ / ▽ / ◁ / ▷ to adjust the SEA mode as you want.
   ◁ / ▷: Select the frequency ranges to adjust.
   △ / ▽: Adjust the frequency levels.

4. Press MEMORY (next to the SEA ADJUST button).

5. When you finish, press MENU EXIT.
   The menu disappears from the TV.

TUNER menu

```
TUNER                    JVC
☞ CH.    : 12 ABCST
   BAND   : FM
   TUNING : 87.50MHz
   FM MODE:MUTE AUTO
   RDS Information

                 ◀▶:OPERATE
```

If you have assigned the
name to this preset station, it
appears here.

RDS Information menu

```
RDS Information          JVC

ch 1 FM 87.50MHz

   Station   :FM TOKYO
   Prog.Type :TRAFFIC
   Radio Text:JAMED ON

                 ▲▼:RETURN
```

SEA MODE menu

```
SEA MODE                 JVC
☞ ROCK
   MUSICAL
   MOVIE
   COUNTRY
   JAZZ
   USER MODE  1M  1k  10k
   SEA OFF
```

SEA ADJUST menu

```
SEA ADJUST               JVC



      1M   1k   10k

            FREQUENCY : 1kHz
            LEVEL     : 0dB
```
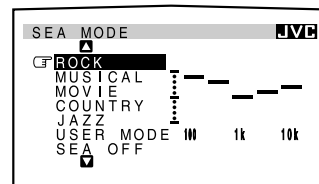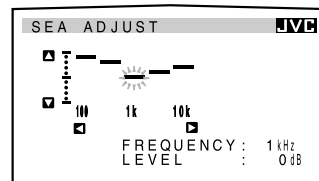
■ Selecting the Surround Modes (Also see pages 29, 32 and 36)

1. **Press MENU.**
   The MAIN MENU appears on the TV.

2. **Press △ / ▽ to move ☞ to "SURROUND," then press ◁ / ▷.**
   The SURROUND MODE menu appears.

3. **Press △ / ▽ to move ☞ to one of the surround modes.**

   If you want to adjust the selected mode, go to the following steps.

4. **Press MENU.**
   The MAIN MENU appears on the TV again.

5. **Press △ / ▽ to move ☞ to "SURROUND ADJUST," then press ◁ / ▷.**
   The adjustment menu for the mode you have selected in step 3 appears.

6. **Press △ / ▽ to move ☞ to the item you want to set or adjust, then press ◁ / ▷.**
   On these adjustment menus, you can do the following:

   For Dolby Pro Logic:
"CENTER MODE":	Select the center mode.
"TEST":	Output a test tone.
"CENTER":	Adjust the center speaker output level.
"REAR":	Adjust the rear speaker output level.
"DELAY":	Adjust the delay time of the rear speaker sound.
"CENTER TONE":	Select the center tone.

   For Dolby 3ch Logic:
"CENTER MODE":	Select the center mode.
"TEST":	Output a test tone.
"CENTER":	Adjust the center speaker output level.
"CENTER TONE":	Select the center tone.

   For JVC HALL Surround:
"REAR":	Adjust the rear speaker output level.
"DELAY":	Adjust the delay time of the rear speaker sound.

7. **When you finish, press MENU EXIT.**
   The menu disappears from the TV.

SURROUND MODE menu


```
SURROUND MODE          JVC
                       PRO
            ▲          LOGIC
    ☞PRO LOGIC
      3CH LOGIC
      HALL
      OFF
            ▼
```
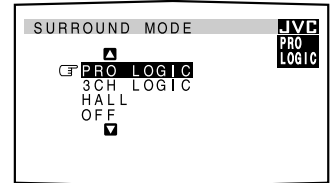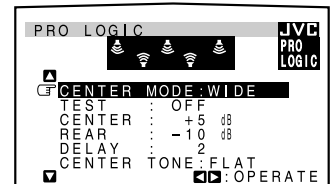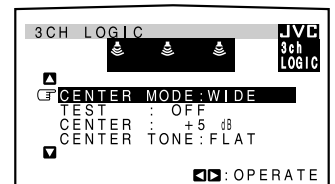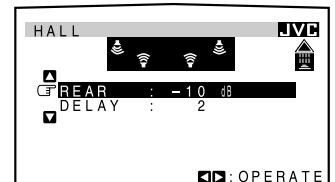
PRO LOGIC adjustment menu


```
PRO LOGIC              JVC
                       PRO
                       LOGIC
    ▲
    ☞CENTER MODE:WIDE
      TEST   : OFF
      CENTER : +5 dB
      REAR   : -10 dB
      DELAY  :  2
      CENTER TONE:FLAT
    ▼              ◁▷:OPERATE
```

3CH LOGIC adjustment menu


```
3CH LOGIC              JVC
                       3ch
                       LOGIC
    ▲
    ☞CENTER MODE:WIDE
      TEST   : OFF
      CENTER : +5 dB
      CENTER TONE:FLAT
    ▼
                   ◁▷:OPERATE
```

HALL Surround adjustment menu


```
HALL                   JVC
                       🏠
    ▲
    ☞REAR   : -10 dB
      DELAY :  2
    ▼


                   ◁▷:OPERATE
```

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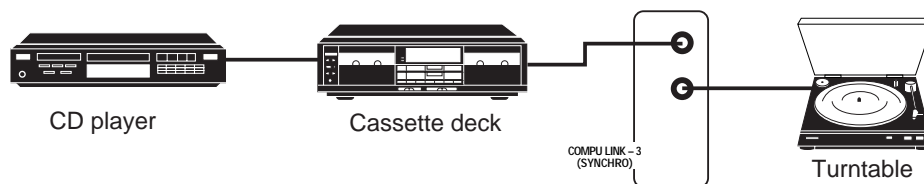
COMPU LINK Remote Control System

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 9).

CD player   Cassette deck   COMPU LINK – 3 (SYNCHRO)   Turntable

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.)*
- *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. For details, see pages 42 and 43.

Note:
Aim the remote control directly at the remote sensor on the receiver.

■ 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 turn on and off (into standby mode) along with the receiver.
When you turn on the receiver, the CD player or cassette deck will turn on automatically, depending on which component has been previously selected.
When you turn off the receiver (into standby mode), both the CD player and cassette deck will turn off (into standby mode).

■ Synchronized Recording

Synchronized recording means the cassette deck 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, and a disc in the CD player (or a record on the turntable).**
2   **Press the record (●) button and the pause (Ⅱ) button on the cassette deck at the same time.**
    This puts the cassette deck into recording pause.

    Note:
    If you do not press the record (●) button and pause (Ⅱ) 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 starts recording.
    When the play ends, the cassette deck enters recording pause, and stops about 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 cassette 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.*

Using the Remote Control

Using this remote control, you can operate audio/video components of not only JVC's but also the other manufacturers'. To operate the other manufacturers' components, see page 47.

Using the Remote Control for Operating JVC Audio/Video Components

IMPORTANT:

To operate JVC audio components using this remote control:

• You need to connect JVC audio components through the COMPU LINK-3 (SYNCHRO) jacks (see page 41) in addition to the connections using cables with RCA pin plugs (see page 9).
• Aim the remote control directly at the remote sensor on the receiver.
• Select a source with the buttons on the SOURCE SELECT section (outside panel) of the remote control, or press the buttons on the remote mode section (inside panel) of the remote control. If you select a source on the front panel or using the menu function, the remote control will not operate that source.

Tuner
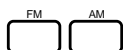
Remote: Outside
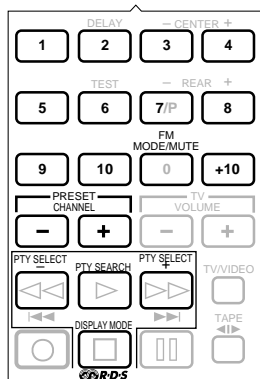
Remote: Inside

After pressing FM or AM (on the SOURCE SELECT section of the outside panel) or TUNER (on the remote mode section of the inside panel), you can perform the following operations on the built-in tuner:

1 – 10, +10	Selects the preset channels directly.
	For preset channel number 5, press 5.
	For preset channel number 15, press +10, then 5.
	For preset channel number 20, press +10, then 10.
	For preset channel number 30, press +10, +10, then 10.
FM MODE/MUTE	Changes the FM reception mode.
PRESET CHANNEL +/–	Changes the preset channels.
RDS operating buttons	
PTY SEARCH	Starts and ends searching a broadcast using the RDS.
PTY SELECT +/–	Selects a program type.
DISPLAY MODE	Changes the RDS display mode.

Note:
To activate the remote control for tuner operations, you can use the FM button or the AM button on the SOURCE SELECT section or the TUNER button on the remote mode section. If you press the button on the remote mode section, you can operate the tuner using the remote control, but the playing source will not be changed to "FM" or "AM."

Sound control section (Amplifier)

Remote: Outside

Remote: Inside

You can always perform the following operations:

SURROUND MODE	Changes the surround modes.
SEA MODE	Changes the SEA modes.

After pressing SOUND CONTROL on the remote mode section of the inside panel, you can perform the following operations:

|	
CENTER +/–	Changes the center speaker output level for the surround modes.
REAR +/–	Changes the left/right rear speaker output level for surround modes.
DELAY	Changes the delay time for surround modes.
TEST	Checks the speaker output level for surround modes.

Note:
After adjusting sounds, press the corresponding button on the remote mode section to operate your target source by using 10 keys; otherwise, 10 keys cannot be used for operating your target source.
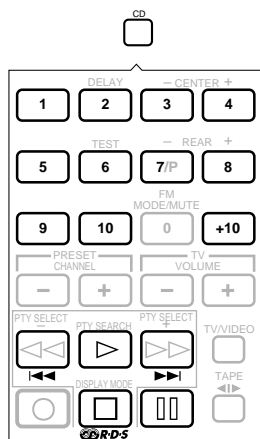
Remote: Inside

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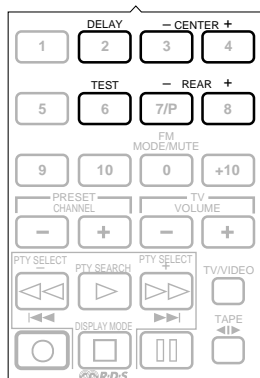
CD player

Remote: Outside

Remote: Inside

After pressing CD (either on the SOURCE SELECT section of the outside panel or on the remote mode section of the inside panel), you can perform the following operations on a CD player:
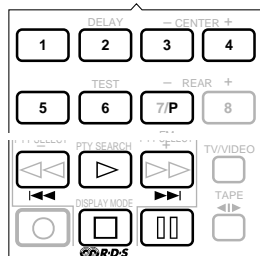
►	Starts playing.
I◄◄	Returns to the beginning of the current (or previous) track.
►►I	Skips to the beginning of the next track.
■	Stops playing.
II	Stops playing temporarily. To release it, press ►.
1 — 10, +10	Selects a track number directly

          For track number 5, press 5.

          For track number 15, press +10, then 5.

          For track number 20, press +10, then 10.

          For track number 30, press +10, +10, then 10.

Note:
To activate the remote control for CD operations, you can use either one of the CD buttons — the one on the SOURCE SELECT section; the other on the remote mode section. If you press the one on the remote mode section, you can operate the CD player using the remote control, but the playing source will not be changed to "CD."

CD player-changer

Remote: Inside

After pressing CD DISC (on the remote mode section of the inside panel), you can perform the following operations on a CD player-changer:
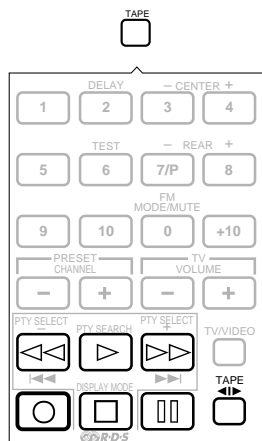
►	Starts playing.
I◄◄	Returns to the beginning of the current (or previous) track.
►►I	Skips to the beginning of the next track.
■	Stops playing.
II	Stops playing temporarily. To release it, press ►.
1 — 6, 7/P	Select the number of a disc installed in a CD player-changer.

Cassette deck

Remote: Outside

Remote: Inside

After pressing TAPE (either on the SOURCE SELECT section of the outside panel or on the remote mode section of the inside panel), you can perform the following operations on a cassette deck:

►	Starts playback.
◄◄	Fast winds the tape from right to left.
►►	Fast winds the tape from left to right.
■	Stops operation.
II	Stops playing or recording temporarily. To release it, press ►.
●	Press this button with ► to start recording.
	Press this button with II to enter the recording standby mode.

Without pressing TAPE (either on the SOURCE SELECT section of the outside panel or on the remote mode section of the inside panel), you can always perform the following:

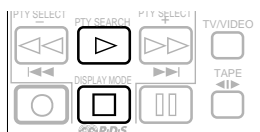TAPE ◄I►   Changes the direction of tape running.

Note:
To activate the remote control for deck operations, you can use either one of the TAPE buttons — the one on the SOURCE SELECT section; the other on the remote mode section. If you press the button on the remote mode section, you can operate the cassette deck using the remote control, but the playing source will not be changed to "TAPE."

Turntable

Remote: Outside

Remote: Inside

After pressing PHONO (on the SOURCE SELECT section), you can perform the following operations on a turntable:

|	
►	Starts playing.
■	Stops playing.

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IMPORTANT:

To operate JVC video components using this remote control:

- Some JVC VCR 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."
- Aim the remote control directly at the remote sensor on the VCR or TV, not on the receiver.
- Select a source with the buttons on the SOURCE SELECT section (outside panel) of the remote control, or press the buttons on the remote mode section (inside panel) of the remote control. If you select a source on the front panel or using the menu function, the remote control will not operate that source.

VCR

After pressing VCR (either on the SOURCE SELECT section of the outside panel or on the remote mode section of the inside panel), you can perform the following operations on a VCR:
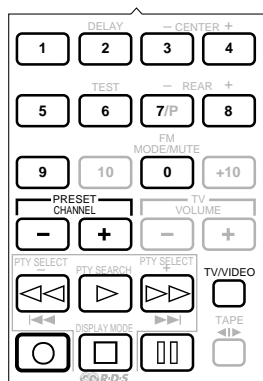
►	Starts playback
◄◄	Rewinds a tape
►►	Fast winds a tape
■	Stops operation.
❚❚	Stops playing or recording temporarily. To release it, press ►.
●	Press this button with ► to start recording.
	Press this button with ❚❚ to enter the recording standby mode.
PRESET CHANNEL +/–	Changes the TV channels on the VCR.
1 – 9, 0	Selects the TV channels on the VCR.

Without pressing VCR (either on the SOURCE SELECT section of the outside panel or on the remote mode section of the inside panel), you can always perform the following:
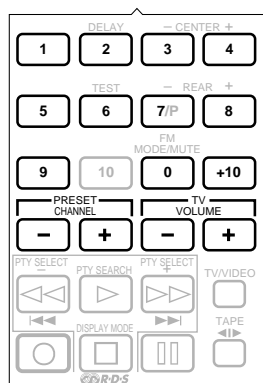
TV/VIDEO	Switches the TV tuner output mode.
VCR (on the POWER section of the outside panel)	
	Turns on/off the VCR.

Remote: Inside

Note:

To activate the remote control for VCR operations, you can use either one of the VCR buttons — the one on the SOURCE SELECT section; the other on the remote mode section. If you press the one on the remote mode section, you can operate the VCR using the remote control, but the playing source will not be changed to "VCR."

TV

After pressing TV SOUND (on the SOURCE SELECT section of the outside panel) or TV (on the remote mode section of the inside panel), you can also perform the following operations on the TV:

1 – 9, 0, +10	Selects the TV channels.
	+10 button will function as the ENTER button if your TV requires pressing the ENTER button after selecting a channel number.
PRESET CHANNEL +/–	Changes the TV channels.

Without pressing TV SOUND (on the SOURCE SELECT section of the outside panel) or TV (on the remote mode section of the inside panel), you can always perform the following:

TV VOLUME +/–	Changes the TV volume.
TV (on the POWER section of the outside panel)	
	Turns on/off the TV.

Remote: Inside

Note:

To activate the remote control for TV operations, you can use either the TV SOUND button on the SOURCE SELECT section or the TV button on the remote mode section. If you press TV on the remote mode section, you can operate the TV using the remote control, but the playing source will not be changed to "TV SOUND."

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Simplifying the Operations Using the Remote Control

You can program and store a series of operations in a specific order you want. After making a program, you can perform these programed operations at a press of the SEQUENTIAL PROGRAM KEY.

Programing a series of operations

You can make 3 different programs, each containing up to 16 steps.

Remote: Inside

Remote: Outside

1 Open the outside panel of the remote control.

2 Press LEARN so that the SEND/LEARN indicator lights up (green).
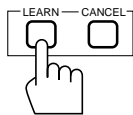
Lights ——— [SEND/LEARN] [ERROR]

3 Close the outside panel.

4 Press SEQUENTIAL PROGRAM KEY A, B, or C to which you want to assign a program you are making from now.
The SEND/LEARN indicator starts flashing.
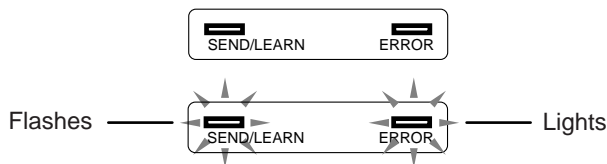
Flashes ——— [SEND/LEARN] [ERROR]
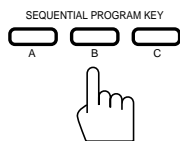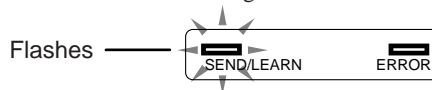
Note:
If the ERROR indicator lights up (red) while the SEND/LEARN indicator is flashing, you have already assigned a program to that SEQUENTIAL PROGRAM KEY. To add steps to the program, continue to step 5. If you do not want to change it, press another SEQUENTIAL PROGRAM KEY after the SEND/LEARN indicator stops flashing.

5 While the SEND/LEARN indicator is flashing, press the button you want to store as the first step of the program.
Both the SEND/LEARN and ERROR indicators light up, and then only the ERROR indicator goes off.

[SEND/LEARN] [ERROR]

Lights ——— [SEND/LEARN] [ERROR] ——— Lights

Lights ——— [SEND/LEARN] [ERROR]
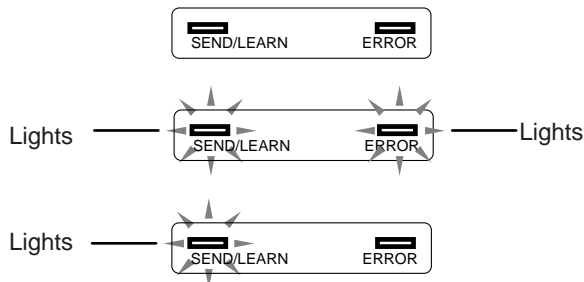
When the SEND/LEARN indicator goes off and starts flashing again, the first step is stored.
The ERROR indicator lights up while the SEND/LEARN indicator is flashing.

[SEND/LEARN] [ERROR]

Flashes ——— [SEND/LEARN] [ERROR] ——— Lights

Note:
If the SEND/LEARN indicator stops flashing before you press the button, repeat from step 4 again.

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**6 Repeat step 5 until you program up to 16 steps.**

Notes:
* *If the ERROR indicator flashes several times, you cannot program this step.*
  – *16 steps are already programed or this particular step is not programmable.*
* *You cannot program an operation performed by pressing two buttons at the same time — like pressing ● and ► at the same time to start recording.*
* *Do not program a TV operation step immediately after the step of turning on the TV. The TV operation may be ignored since the TV is not yet ready to accept the signal.*
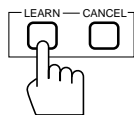
Remote: Inside

7 Press LEARN again to finish the programing procedure.
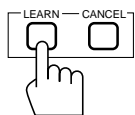Both the SEND/LEARN and ERROR indicators go off.
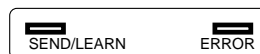
SEND/LEARN   ERROR

CAUTION:
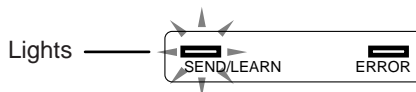When replacing the batteries, finish it without delay; otherwise, the stored signals are all erased.

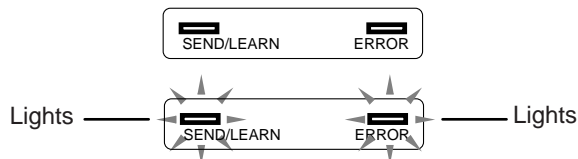*Erasing a program*

1 Open the outside panel of the remote control.

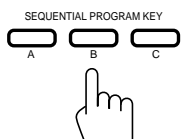**2 Press LEARN so that the SEND/LEARN indicator lights up (green).**

Remote: Inside

Lights —— SEND/LEARN   ERROR

3 Press CANCEL.
Both the SEND/LEARN and ERROR indicators light up.

Remote: Inside

SEND/LEARN   ERROR

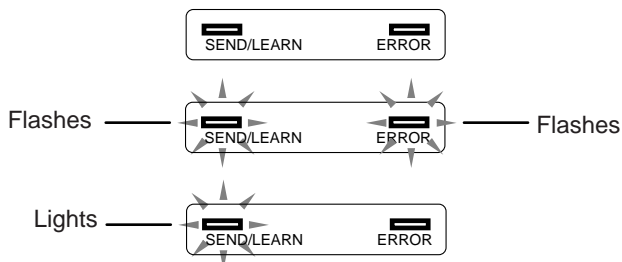Lights —— SEND/LEARN   ERROR —— Lights

4 Close the outside panel, and press and hold SEQUENTIAL PROGRAM KEY A, B, or C to which the program you want to erase has been assigned to, until both the SEND/LEARN and ERROR indicators start flashing.

SEQUENTIAL PROGRAM KEY
A   B   C

Remote: Outside

SEND/LEARN   ERROR

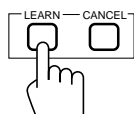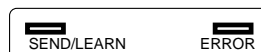Flashes —— SEND/LEARN   ERROR —— Flashes

Lights —— SEND/LEARN   ERROR

Note:
If the ERROR indicator remains lit, no program is assigned to the SEQUENTIAL PROGRAM KEY. In this case, press CANCEL to turn off the ERROR indicator.

5 Press LEARN again to finish the erasing procedure.
The SEND/LEARN indicator goes off.

Remote: Inside

SEND/LEARN   ERROR

## Operating the Other Manufacturers' Audio/Video Components

The remote control supplied with the receiver can learn and memorize the signals used for the other manufactures' remote control unit. By storing these signals, you can operate the other manufacturers' audio/video components.

Storing the signals

Before storing another manufacturer's signals, make sure that manufacturer's remote control unit (hereafter called "target remote control") actually works.

1 **Place the two remote controls on a level surface with signal transmitting windows facing each other.**
Leave a space of 5 to 10 cm (2 to 4 inches) between the two remote controls; otherwise, storing may be failed.
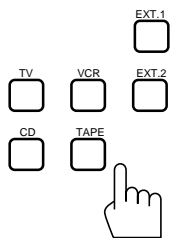
5 to 10 cm
(2 to 4 inches)
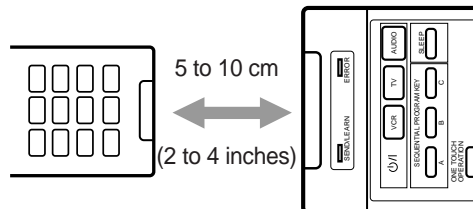
2 **Open the outside panel of this remote control.**

LEARN — CANCEL

Remote: Inside

3 **Press LEARN so that the SEND/LEARN indicator lights up (green).**

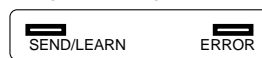Lights —— SEND/LEARN ERROR

EXT.1

TV VCR EXT.2
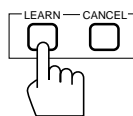
CD TAPE

Remote: Inside

4 **Press one of the buttons on the remote mode section.**
If possible, select the source corresponding to the target remote control's usage.
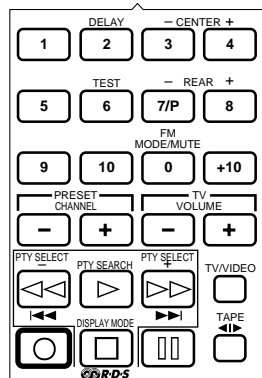
SEND/LEARN ERROR

Lights —— SEND/LEARN ERROR

Notes:
- *Since no signal have been preset for the EXT.1 and EXT.2 modes, you can store signals from the target remote control without losing any preset signals.*
- *If you want to store a signal into the TV or VCR button on the POWER section, you can skip this step.*

Buttons you can assign signals to

⏻ TV VCR

Remote: Outside

DELAY — CENTER +
1 2 3 4
TEST — REAR +
5 6 7/P 8
FM MODE/MUTE
9 10 0 +10
PRESET CHANNEL TV VOLUME
— + — +
PTY SELECT — PTY SEARCH PTY SELECT + TV/VIDEO
◀◀ ▷ ▶▶
◀◀ DISPLAY MODE ▶▶ TAPE ◀▮▶
○ □ ⏸
RDS

Remote: Inside

5 **Press one of the buttons (illustrated to the left), to which you want to assign a signal from the target remote control.**
The SEND/LEARN indicator starts flashing.

SEND/LEARN ERROR

Flashes —— SEND/LEARN ERROR
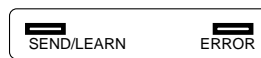
Note:
If the ERROR indicator lights red, you have already stored a signal. To change the stored signal, go to the next step. If you do not want to change it, press another button.

6 **While the SEND/LEARN indicator is flashing, press the button on the target remote control, the signal of which you want to assign to the button of this remote control you have pressed in step 5.**
The SEND/LEARN indicator stops flashing and remains lit, and the ERROR indicator also lights red but soon goes off.

SEND/LEARN ERROR

Lights —— SEND/LEARN ERROR —— Lights

Lights —— SEND/LEARN ERROR

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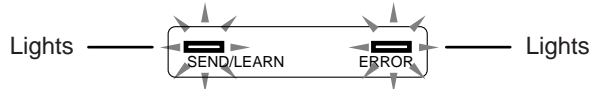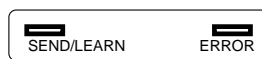
After several seconds, the SEND/LEARN indicator goes off and lights up again. This means that the storing is successfully finished.
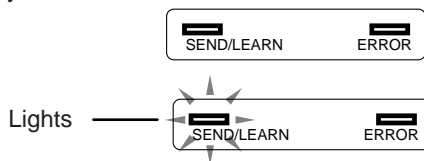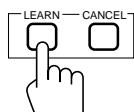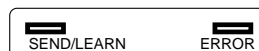
Lights ——

Notes:
- *If the SEND/LEARN indicator stops flashing before you press the button on the target remote control, repeat from step 5 again.*
- *If the ERROR indicator lights red and does not go off, you have failed in storing the signal.*
- *If the ERROR indicator flashes, you have failed in storing the signal. Try again. However some signals do not match to this remote control even though this remote control can lean most infrared signals.*

7 **Repeat steps 5 to 6 to store more signals in the same remote mode.**
Repeat steps 4 to 6 to store more signals in a different remote mode.

8 **Press LEARN to finish the storing procedure.**

Note:
The signals stored into this remote control from the target remote control deviates slightly from the original signals. Since some components will not accept these deviating signals, you may not be able to operate those components using this remote control even though the storing procedure has been successfully finished.

Remote: Inside

CAUTION:
When replacing the batteries, finish it without delay; otherwise, the stored signals are all erased.

Using stored signals

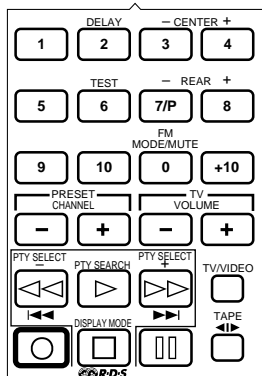When you want to use the stored signals, follow the procedure below.
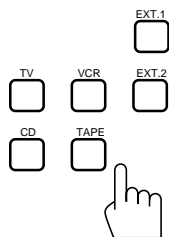
1 **Open the outside panel of the remote control.**

2 **Press one of the remote mode buttons.**

3 **Press the desired button.**

Note:
When you have stored signals into the TV and VCR buttons, simply pressing the button will send the stored signals. You do not have to press a remote mode button.
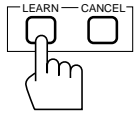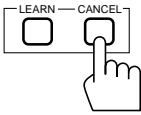
Remote: Outside

Remote: Inside

Erasing stored signals

After erasing stored signals, preset signals are resumed and you can operate JVC's components again.

1   Open the outside panel of the remote control.

Remote: Inside

2   Press LEARN so that the SEND/LEARN indicator lights up (green).

Lights —— SEND/LEARN   ERROR
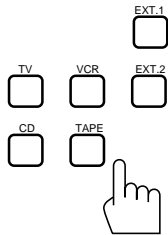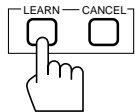
Remote: Inside

3   Press CANCEL.
Both the SEND/LEARN and ERROR indicators light up.

SEND/LEARN   ERROR

Lights —— SEND/LEARN   ERROR —— Lights

Remote: Inside
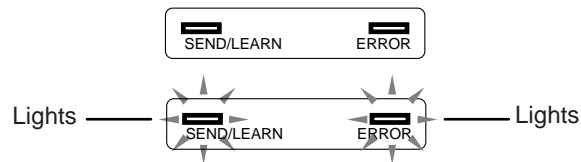
4   Press and hold the one of the buttons on the remote mode section until both the SEND/LEARN and ERROR indicators start flashing.
All the signals assigned in the selected remote mode are erased at the same time.
You cannot erase a signal assigned to a particular button only.

SEND/LEARN   ERROR

Flashes —— SEND/LEARN   ERROR —— Flashes

Lights —— SEND/LEARN   ERROR
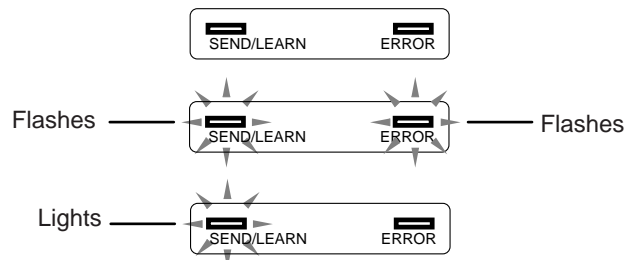
Note:
If the ERROR indicator remains lit, no signals are assigned to the buttons in the selected remote mode.
In this case, press CANCEL to turn off the ERROR indicator.

Remote: Inside

5   Press LEARN again to finish the erasure.
The SEND/LEARN indicator goes off.

SEND/LEARN   ERROR

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Troubleshooting
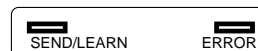
Use this chart to help you solve daily operational problems. If there is any problem you cannot solve, contact your JVC service center.

PROBLEM	POSSIBLE CAUSE	SOLUTION
The display does not light up.	The power cord is not plugged in or the ① POWER switch is pressed to set in the ■OFF position.	Plug the power cord into an AC outlet and/or press ① POWER to set it in the ▬ON position.
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.
	Mute is activated.	Press MUTE 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.
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 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.
No colors on the on-screen display.	The color system of the connected TV is not PAL.	Connect a PAL TV.
Howling during record playing.	Your turntable is too close to speakers.	Move speakers away from the turntable.
Remote control does not work.	Stored control signals are erased.	Store the control signals again.
	There is an obstruction in front of the remote sensor on the receiver.	Remove the obstruction.
	Batteries are weak.	Replace batteries.

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Specifications

Amplifier

Output Power	At Stereo operation	
	Front Channels	80 watts per channel, min. RMS, both channels driven into 4 ohms at 1 kHz with no more than 0.9% total harmonic distortion. (IEC268-3/DIN)
		70 watts per channel, min. RMS, both channels driven into 8 ohms at 1 kHz with no more than 0.9% total harmonic distortion. (IEC268-3/DIN)
		65 watts per channel, min. RMS, both channels driven into 8 ohms, 20 Hz to 20 kHz with no more than 0.06% total harmonic distortion.
	At Surround operation	
	Front Channels	70 watts per channel, min. RMS, driven into 8 ohms at 1 kHz with no more than 0.7% total harmonic distortion.
	Center Channel	70 watts, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.7% total harmonic distortion.
	Rear Channels	70 watts per channel, min. RMS, driven into 8 ohms at 1 kHz, with no more than 0.7% total harmonic distortion.
Total Harmonic Distortion (8 ohms, 1 kHz)		0.06 %* at 65 watts output (* Measured by JVC Audio Analysis System)
Audio Input Sensitivity/ Impedance (1 kHz)	PHONO (MM)	2.5 mV/47 k ohms
	CD, VCR, VIDEO1, VIDEO2, TV SOUND, TAPE	230 mV/47 k ohms
Audio Output Level	TAPE, VCR	230 mV
Signal-to-Noise Ratio ('66 IHF/DIN)	PHONO	70 dB/66 dB
	CD, VCR, VIDEO1, VIDEO2, TV SOUND, TAPE	87 dB/67 dB
Frequency Response (8 ohms)	PHONO	20 Hz to 20 kHz (±1 dB)
	CD, VCR, VIDEO1, VIDEO2, TV SOUND, TAPE	20 Hz to 20 kHz (±1 dB)
RIAA Phono Equalization		±0.5 dB (20 Hz to 20 kHz)
Loudness Control (Volume Control at –40 dB)		+6 ±1 dB at 100 Hz +4 ±1 dB at 10 kHz
S.E.A.	Center Frequencies Control Range	100 Hz, 1 kHz, 10 kHz ±10 dB ±2 dB

Video

Video Input Sensitivity/Impedance	VCR, VIDEO1, VIDEO2	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
On-Screen Color System		PAL

FM tuner (IHF)

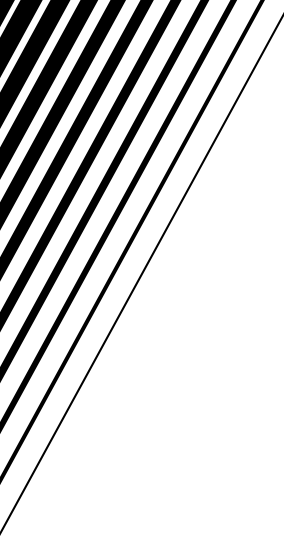|		
Tuning Range		87.5 MHz to 108.0 MHz
Usable Sensitivity	Monaural	10.8 dBf (0.95 µV/75 ohms)
50 dB Quieting Sensitivity	Monaural	16.3 dBf (1.8 µV/75 ohms)
	Stereo	38.3 dBf (22.5 µV/75 ohms)
Signal-to-Noise Ratio	Monaural	80 dB at 85 dBf
(IHF-A weighted)	Stereo	73 dB at 85 dBf
Total Harmonic Distortion	Monaural	0.15 % at 1 kHz
	Stereo	0.2 % at 1 kHz
Stereo Separation at REC OUT		40 dB at 1 kHz
Capture Ratio		1.5 dB (10 mV)
Alternate Channel Selectivity		60 dB: (±400 kHz)
Frequency Response		30 Hz to 15 kHz: (+0.5 dB, –3 dB)

AM (MW/LW) tuner

Tuning Range	MW:	522 kHz to 1,629 kHz
	LW:	144 kHz to 288 kHz
Usable Sensitivity	MW: Loop antenna	300 µV/m
	External antenna	30 µV
	LW: Loop antenna	600 µV/m
Signal-to-Noise Ratio		50 dB (100 mV/m)

General

Power Requirements	AC 230V$\sim$, 50 Hz
Power Consumption	280 watts
	2 watts (in standby mode)
Dimensions (W x H x D)	435 x 156.5 x 412 mm
	(17 $^3/_{16}$ x 6 $^3/_{16}$ x 16 $^1/_4$ inches)
Mass	10.3 kg (22.7 lbs)

Designs & specifications are subject to change without notice.

JVC

VICTOR COMPANY OF JAPAN, LIMITED

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