JVC®

For model:
AV-20FD22

TV/DVD COMBO
USER'S GUIDE

DVD VIDEO™

COMPACT disc DIGITAL AUDIO

DOLBY DIGITAL **dts DIGITAL OUT®**
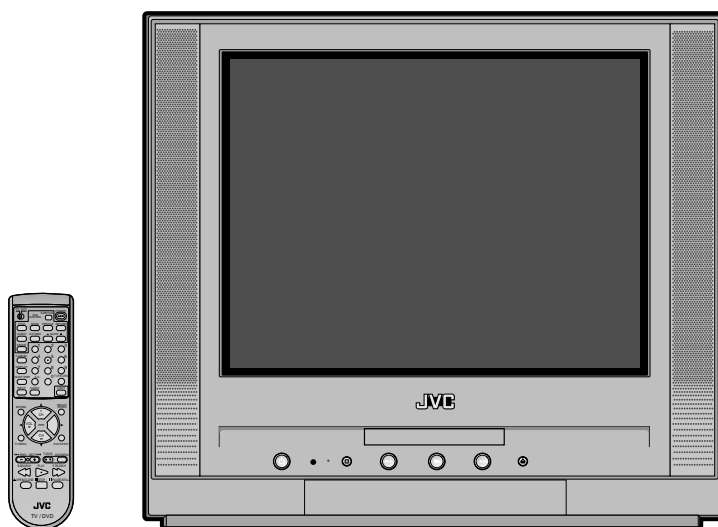
IMPORTANT NOTE TO THE CUSTOMER:
In the space below, enter the serial number for your
television (located on the rear of the television cabinet).
Staple your sales receipt or invoice to the inside cover of this guide.
Keep this user's guide in a convenient place for future reference.
Keep the carton and original packaging for future use.

_____

Serial Number

2

IMPORTANT SAFEGUARDS

1. **READ INSTRUCTIONS**

   All the safety and operating instructions should be read before the unit is operated.

2. **RETAIN INSTRUCTIONS**

   The safety and operating instructions should be retained for future reference.

3. **HEED WARNINGS**

   All warnings on the unit and in the operating instructions should be adhered to.

4. **FOLLOW INSTRUCTIONS**

   All operating and use instructions should be followed.

5. **CLEANING**

   Unplug this unit from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning the exterior cabinet only.

6. **ATTACHMENTS**

   The manufacturer of this unit does not make any recommendations for attachments, as they may cause hazards.

7. **WATER AND MOISTURE**

   Do not use this unit near water. For example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.

PORTABLE CART WARNING
(symbol provided by RETAC)

8. **ACCESSORIES**

   Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit.

8A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.

S3126A

9. **VENTILATION**

   Slots and openings in the cabinet back or bottom are provided for ventilation, and to ensure reliable operation of the unit, and to protect it from overheating. These openings must not be blocked or covered. The openings should never be blocked by placing the unit on a bed, sofa, rug, or other similar surface. This unit should never be placed near or over a radiator or heat source. This unit should not be placed in a built-in installations such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. **POWER SOURCES**

    This unit should be operated only from the type of power source indicated on the rating plate. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company. For units intended to operate from battery power, or other sources, refer to the operating instructions.

11. **GROUNDING OR POLARIZATION**

    This unit is equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug, if your unit is equipped with a 3-wire grounding-type plug, a plug having a third (grounding) pin. This plug will only fit into a grounding-type power outlet. This too, is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet.
    Do not defeat the safety purpose of the grounding-type plug.

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IMPORTANT SAFEGUARDS (Continued)

12. **POWER-CORD PROTECTION**
    Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.

13. **LIGHTNING**
    To protect your unit from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the unit due to lightning and power line surges.

14. **POWER LINES**
    An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.

15. **OVERLOADING**
    Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

16. **OBJECT AND LIQUID ENTRY**
    Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

17. **OUTDOOR ANTENNA GROUNDING**
    If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

18. **SERVICING**
    Do not attempt to service this unit yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

19. **DAMAGE REQUIRING SERVICE**
    Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
    a. When the power-supply cord or plug is damaged.
    b. If liquid has been spilled, or objects have fallen into the unit.
    c. If the unit has been exposed to rain or water.
    d. If the unit does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions, as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the unit to its normal operation.
    e. If the unit has been dropped or the cabinet has been damaged.
    f. When the unit exhibits a distinct change in performance, this indicates a need for service.

20. **REPLACEMENT PARTS**
    When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.
    Unauthorized substitutions may result in fire, electric shock or other hazards.

21. **SAFETY CHECK**
    Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

22. **HEAT**
    The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

23. **DISC TRAY**
    Keep your fingers well clear of the disc tray as it is closing. It may cause serious personal injury.

24. **CONNECTING**
    When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

25. **SOUND VOLUME**
    Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.

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26. SOUND DISTORTION
Do not allow the product output distorted sound for a longtime. It may cause speaker overheating and fire.
27. HEADPHONES
When you use the headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.
28. LASER BEAM
Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.
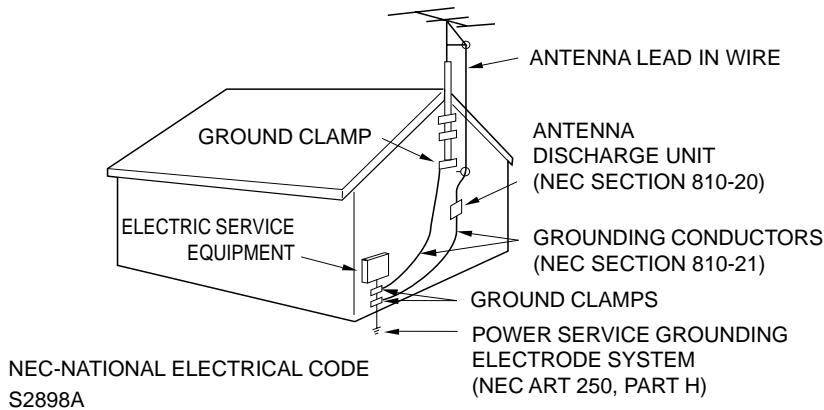**29. DISC**
Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.
30. NOTE TO CATV SYSTEM INSTALLER
This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

EXAMPLE OF ANTENNA GROUNDING AS PER THE
NATIONAL ELECTRICAL CODE

ANTENNA LEAD IN WIRE

ANTENNA
DISCHARGE UNIT
(NEC SECTION 810-20)

GROUND CLAMP

ELECTRIC SERVICE
EQUIPMENT

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

GROUND CLAMPS

POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250, PART H)

NEC-NATIONAL ELECTRICAL CODE
S2898A

CONDENSATION
Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired.
To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.
Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.

Power Source

AC Outlet

Wider Hole
and Blade

Polarized AC Cord Plug
(One blade is wider than the other.)
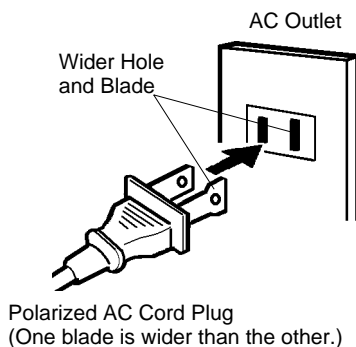
TO USE AC POWER SOURCE
Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

NOTES:
• Never connect the AC line cord plug to other than the specified voltage (120V 60Hz). Use the attached power cord only.
• If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.
• If you cause a static discharge when touching the unit and the unit fails to function, simply unplug the unit from the AC outlet and plug it back in. The unit should return to normal operation.

Features

Color TV With DVD/CD player
Unique space saving design combines a 20" flat color TV and a DVD/CD player.
The DVD disc has much more capacity, but is the same size as the audio CD disc. Picture/Audio quality of the DVD exceeds other software. Picture quality is higher than Super VHS. Audio quality is higher than audio CD. The DVD also has special options; audio language selection, subtitle language selection or multi-angle, etc.
The DVD PLAYER can play back audio CDs.

High Quality Picture
Horizontal Resolution
More than 500 lines. It exceeds Super VHS (400 lines) or Laser Disc (430 lines) in resolution.

Compatible with a wide range of DVD audio outputs
Digital Audio Jack (Coaxial)
• When a component with a built-in Dolby Digital decoder is connected, Dolby Digital sound can produce the effect of being in a movie theater or a concert hall.
• Surround standard different from Dolby Digital. This format is already in use in many theaters. By connecting this unit to a DTS decoder or an AV amplifier with a built-in DTS decoder, the DTS audio of DVD discs recorded in this format can be enjoyed. However, audio will not be output from the analog audio output jacks.
• By connecting this unit to an AV amplifier with a built-in MPEG decoder, the MPEG audio of DVD discs recorded in this format can be enjoyed.
• The Linear PCM sound of a 48 kHz/16 bit through 96 kHz/20 bit exceeds audio CD sound.

Convenience Features
Frame Advance - The **PAUSE/STILL** moves one frame at a time.
Slow Motion - The **SLOW** moves you back and forth through the program by 4 steps of 1/7-1/2 times.
Repeat Playback - You can repeat chapter track or title between two selected points.
Program Playback (Audio CD) - You can play back tracks in programmed sequences.
Zoom (DVD only) - You can zoom in the selected subject on the screen during playback.

Note: Make sure that discs are suitable for the following functions.
Multi-Language - Maximum 32 language subtitles and maximum 8 language soundtracks can be played back for movies or programes.
Multi-Angle - Pictures of Sports or a Live Concert are recorded with many cameras. When you play such a disc, you can change the angles during playback.
Parental Control - You can limit the play back of scenes or sounds of adult DVD discs which have parental level.
Video Aspect Ratio - You can change the aspect ratio of the screen for your monitor.

TV Features
Flat Picture Tube - It reduces the influence of surrounding light resulting in outstanding image detail and clarity.
181 Channel Tuner - Receives standard VHF and UHF broadcast channels and up to 113 cable channels. The actual number of channels received depends upon channel reception in your area or your cable system.
Closed Caption Decoder With Full Text Mode - Displays text captions or full screen text on the screen for hearing impaired viewers.
Picture Adjustments Using The Remote Control - The On-Screen display allows precise remote control adjustment of BRIGHTNESS, CONTRAST, COLOR, TINT and SHARPNESS.
Programmable TV Sleep Timer - Operable from the remote control, the TV can be programmed up to 120 minutes to turn off automatically.
On-Screen 3 Language Display - You can select one of 3 languages, English, Spanish or French for on-screen programming.
V-Chip - The V-Chip function can read the rating of a TV program or movie content if the program is encoded with this information. V-chip will allow you to set a restriction level.

Contents

Parts and functions

Front

Disc tray
PREVIOUS button
STOP button
Power indicator
Remote sensor
NEXT button
OPEN/CLOSE button

POWER STOP PREVIOUS PLAY NEXT OPEN/CLOSE
POWER

JVC

HOW TO OPEN THE FRONT DOOR

POWER button
Headphone Jack
VOLUME +/– buttons
CHANNEL +/– buttons
PLAY button
AUDIO (L/R)/VIDEO IN jacks
(LINE 2)

Rear

RF IN jack

VIDEO
UHF/
VHF
L
(MONO)
AUDIO
R
OUT   LINE 1 IN
DIGITAL
AUDIO
COAXIAL

AC power cord

AUDIO (L/R)/VIDEO OUT jacks
AUDIO (L/R)/VIDEO IN jacks (LINE 1)
SERVICE jack
COAXIAL DIGITAL AUDIO OUT jack

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Remote control

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PREV/NEXT	Skip chapter to forward or reverse direction	28
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DVD MENU	Display menu of DVD software	34
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VOL +/– (◄ ►)	Adjust volume Cursor buttons	14 13,17-22,24,26-31,34-42
TV/CATV switch	Switch to operate TV or CATV	10,50

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Remote control

Inserting Batteries

1 Slide the battery compartment cover in the direction of the arrow.
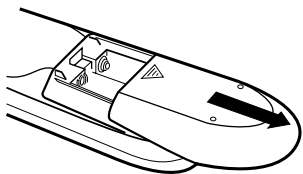
2 Install two "AA" batteries (supplied), paying attention to the polarity diagram in the battery compartment.
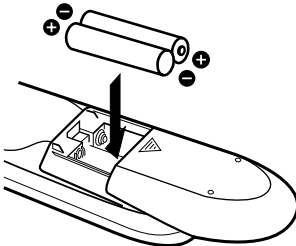
3 Replace the compartment cover.
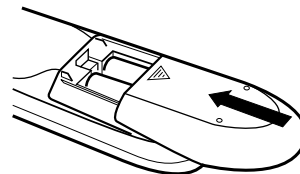
BATTERY PRECAUTIONS

The precautions below should be followed when using batteries in this device:

1. Use only the size and type of batteries specified.
2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device. To avoid a potential short circuit, insert the "–" end first.
3. Do not mix different types of batteries together (e.g. Alkaline and Carbon-zinc) or old batteries with fresh ones.
4. If the device is not to be used for a long period of time, remove the batteries to prevent damage or injury from possible battery leakage.
5. Do not try to recharge batteries not intended to be recharged; they can overheat and rupture. (Follow battery manufacturer's directions.)
6. When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes for your Cable Box may have to be reset (see page 50).

REMOTE CONTROL BASICS

- Before you can operate the remote control, you must first install the batteries (included). See "Inserting Batteries" on this page above for instructions.
- Press the POWER button to turn the television on or off.
- Make sure the TV/CATV switch is set to TV. Move the switch to CATV only if you need to operate a cable box. (You must set the remote control to operate a cable box. Please see page 50 for instructions.)
- Press the CH + and CH – buttons to scan through the channels. Tap the CH + or CH – button to move through the channels one channel at a time.
- Press VOL + or VOL – to raise or lower the volume. An indicator bar will appear onscreen to show you the television volume level.
- The CH +/– and VOL +/– buttons are also used to navigate JVC's onscreen menu system.
- You can directly access specific channels using the 10-key pad.
- This remote includes illuminated buttons for key features like CH +/– buttons, and VOL +/– buttons. Press the LIGHT button to turn the illumination on.
- Each press of TV/DVD on the remote control, switches the screen between the TV screen (TV mode) and the DVD screen (DVD mode). You can operate a TV and TV menu in the TV mode, and a DVD and DVD SETUP menu in the DVD mode.

Operation
- Aim the remote control at the remote sensor and press control buttons to operate.
- Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of Approx. 5 meters.

Approx. 5 meters

30˚ 30˚

10
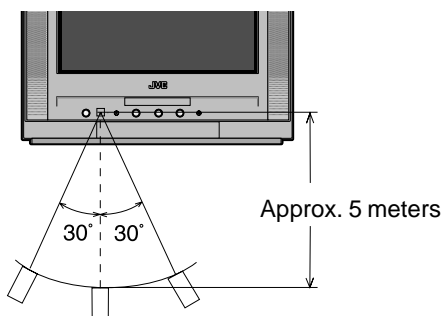
Antenna connections

If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a cable TV service (CATV), see page 12 for Cable TV connections.

Combination VHF/UHF Antenna (Single 75 ohm Cable or 300 ohm Twin-lead Wire)

Antenna Jack

Antenna Jack

UHF/ VHF

UHF/ VHF

75 ohm Coaxial Cable

300-75 ohm Matching Transformer (not supplied)
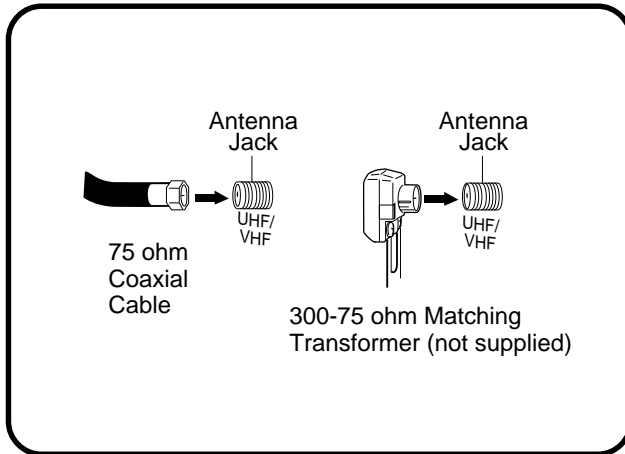
Connect the 75 ohm Cable from the Combination VHF/UHF Antenna to the Antenna Jack.

If your Combination VHF/UHF Antenna has a 300 ohm Twin-lead Wire, the use of the 300-75 ohm Matching Transformer may be necessary.

Combination VHF/UHF Antenna (Separate VHF and UHF 300 ohm Twin-lead Wires)

Antenna Jack

300-75 ohm Matching Transformer (not supplied)

UHF/ VHF

Combiner (not supplied)

UHF 300 ohm
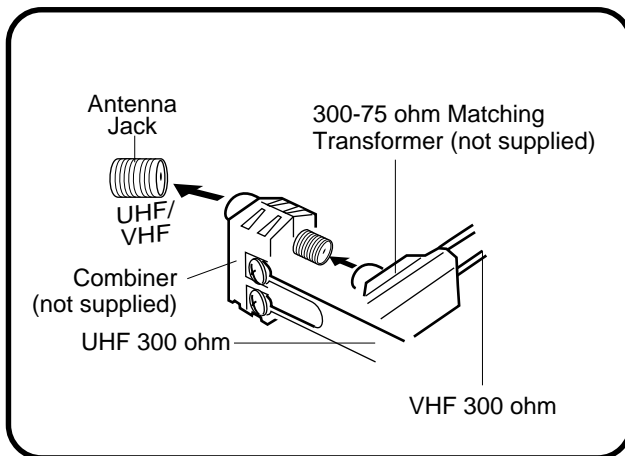
VHF 300 ohm

Connect the UHF 300 ohm Twin-lead Wire to the Combiner (not supplied). Connect the VHF 300 ohm Twin-lead Wire to the 300-75 ohm Matching Transformer. Attach the Transformer to the Combiner, then attach the Combiner to the Antenna Jack.

Separate VHF/UHF Antennas (75 ohm VHF Cable and 300 ohm UHF Twin-lead Wires)

Antenna Jack

UHF/ VHF

VHF 75 ohm

Combiner
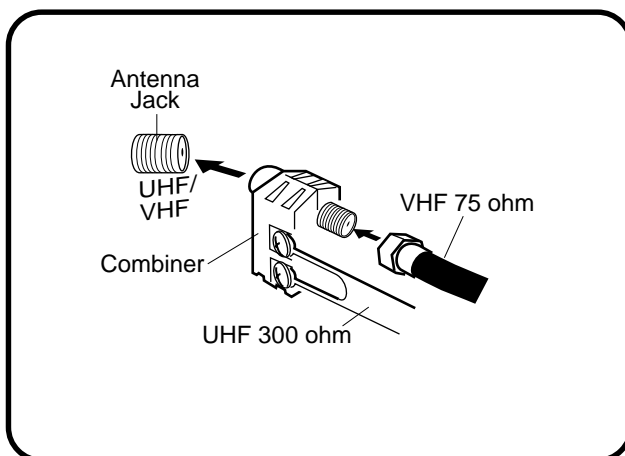
UHF 300 ohm

Connect the VHF 75 ohm cable and UHF 300 ohm Twin-lead Wire to the Combiner. Attach the Combiner to the Antenna Jack.

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Cable TV connections

This TV/DVD has an extended tuning range and can tune most cable channels without using a Cable TV Converter box. Some cable companies offer "premium pay channels" in which the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the cable company.

FOR SUBSCRIBERS TO BASIC CABLE TV SERVICE
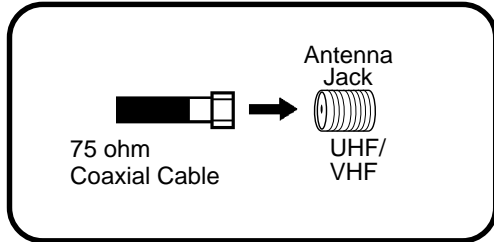
For basic cable service not requiring a Converter/Descrambler box, connect the CATV 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the TV/DVD.

FOR SUBSCRIBERS TO SCRAMBLED CABLE TV SERVICE

If you subscribe to a cable TV service which requires the use of a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable to the Converter/Descrambler box. Using another 75 ohm Coaxial Cable, connect the output jack of the Converter/Descrambler box to the Antenna Jack on the TV/DVD. Follow the connections shown below. Set the TV/DVD to the output channel of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.
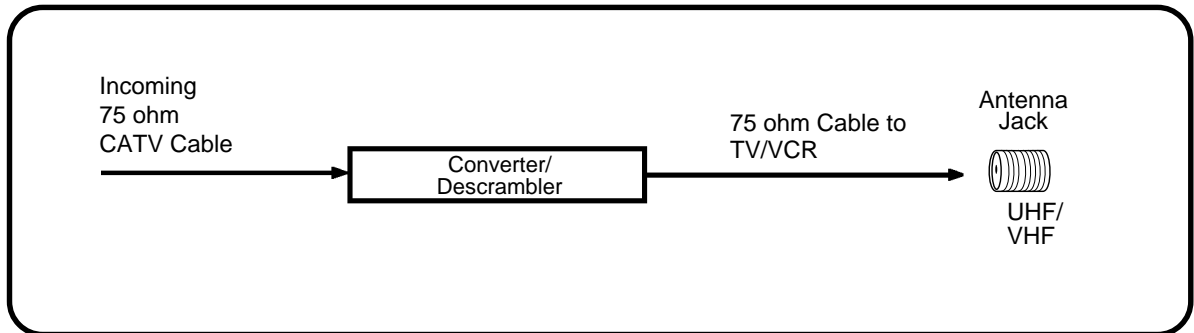
FOR SUBSCRIBERS TO UNSCRAMBLED BASIC CABLE TV SERVICE WITH SCRAMBLED PREMIUM CHANNELS

If you subscribe to a cable TV service in which basic channels are unscrambled and premium channels require the use of a Converter/Descrambler box, you may wish to use a signal Splitter and an A/B Switch box (available from the Cable company or an electronics supply store). Follow the connections shown below. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV/DVD. With the switch in the "A" position, tune your TV/DVD to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to tune scrambled channels.

12
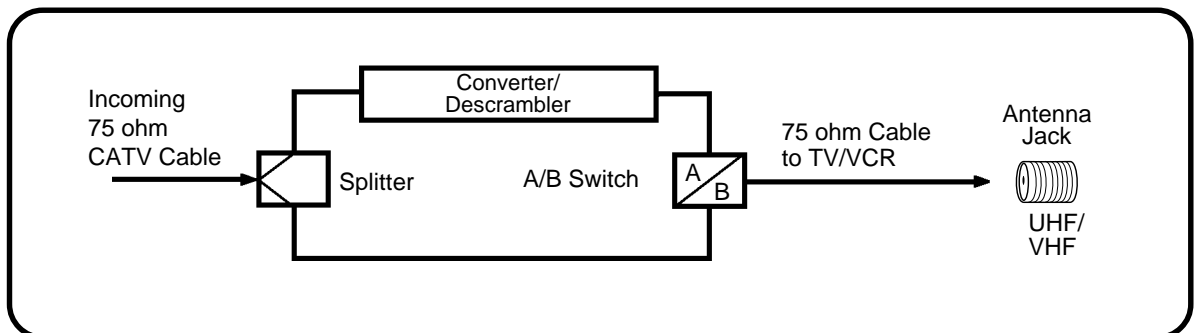
You can choose from three different languages (English, French and Spanish) for the on-screen displays.
Adjustment menus and messages will appear in the language of your choice.
On-screen language selection (step 5) will automatically appear on the screen when you press the MENU
button initially. Select the language you prefer first, then proceed with the other menu options.
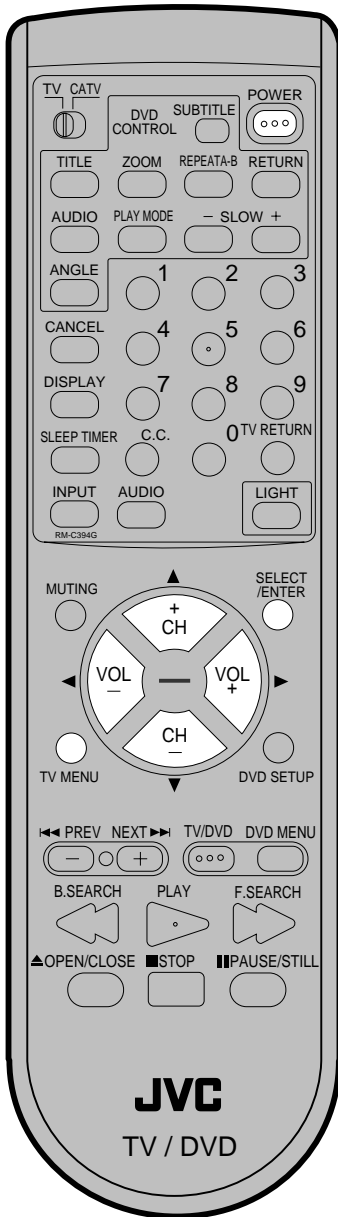
1 To turn on the TV/DVD, press **POWER**. The Power indicator will light.

2 Press **TV MENU**. The TV menu screen will appear.

3 Press ◀ or ▶ until the SET-UP menu appears.

V-CHIP SET
LANGUAGE/IDIOMA/LANGUE

‹▲ / ▼/ ◀ / ▶/MENU›

4 Press ▲ or ▼ to select the "LANGUAGE" option, then press ◀ or ▶ button.

V-CHIP SET
▶LANGUAGE/IDIOMA/LANGUE

‹▲ / ▼/ ◀ / ▶/MENU›

5 Press ▲ or ▼ to select the desired language: English (ENGLISH), Spanish (ESPAÑOL) or French (FRANCAIS), then press **ENTER**.

LANGUAGE/IDIOMA/LANGUE

▶ENGLISH
 ESPAÑOL
 FRANCAIS

‹▲ / ▼/ENTER/MENU›
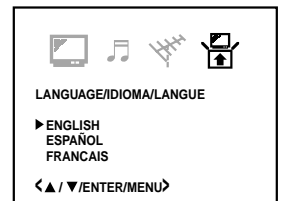
Press **TV MENU** until the MENU screen is cleared.

NOTE:
• **If the unit does not operate properly, or No key operation (by the unit and/ or the remote control):** Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
• The TV section has its own menu and also DVD section has its own menu (see page 26).

13

TV operation
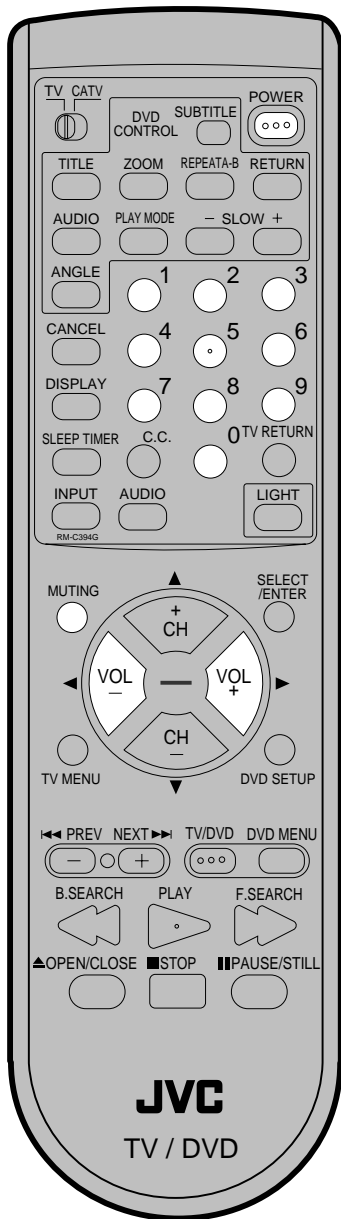
1 To turn on the TV/DVD, press **POWER**.

2 Adjust the volume level by pressing **VOL +** or **–**. The volume level will be indicated on the screen by green bars. As the volume level increases, so do the number of bars. If the volume decreases, the number of green bars also decreases.

```
VOLUME          32
||||||||||||||||..............
```
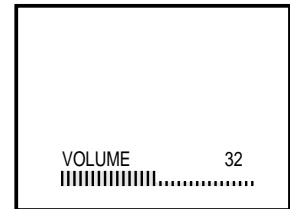
3 Set the TV/CATV menu option to the appropriate position. (See page 17.)

```
TV    - VHF/UHF channels
CATV  - CABLE TV channels
```

4 Press the Direct Channel selection buttons to select the channel.
TV Mode Direct Channel Selection
When the TV/CATV menu option is in the TV position, all channels can be instantly selected by using two buttons. (for example, to select channel 2, press "**0**", then "**2**". If you press only "**2**", channel selection will be delayed for a few seconds.) For channels 10 and above, press the 2 digits in order.

```
                         CH 012
```
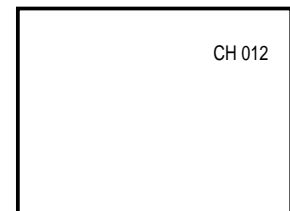
CATV Mode Direct Channel Selection
When the TV/CATV menu option is in the CATV position, channels can be selected as follows:
TO SELECT CATV CHANNELS:
1-9:   Press "**0**" twice, then 1-9 as needed. Example, to select channel 2, press "**002**".
10-12:   Press "0", then the remaining 2 digits. Example, to select channel 12, press "**012**".
13-99:   Press the 2 digits in order. Example, to select channel 36, press "**36**".
100-125: Press the 3 digits in order. Example, to select channel 120, press "**120**".
NOTE FOR CHANNELS 1-12:
If only 1 or 2 buttons are pressed, the corresponding channel will be selected in 2 seconds.

MUTING
The **MUTING** button instantly turns the volume down completely when you press it.
Press **MUTING** button and the volume level will instantly go to zero. To restore the volume to its previous level, press **MUTING** button again.

NOTES:
• If a channel with no broadcast is selected, the sound will automatically be muted.
• If a station being viewed stops broadcasting, the TV will automatically shut itself off after 15 minutes.

14
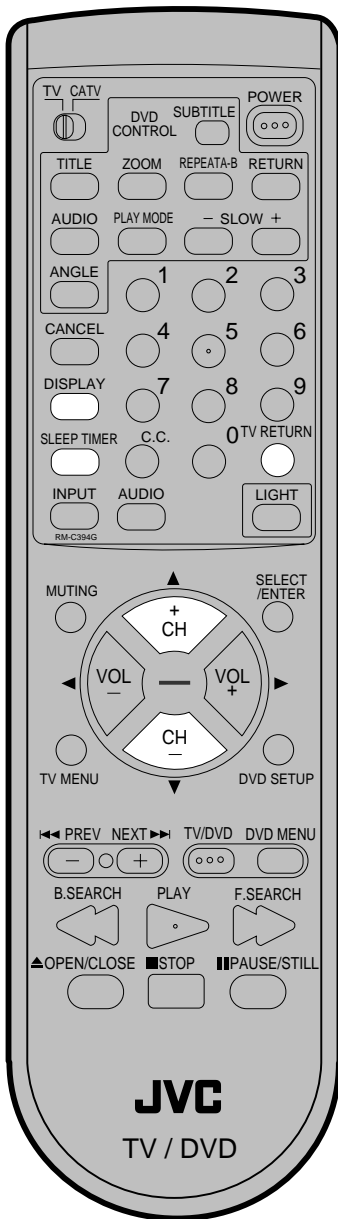
CHANNEL UP/DOWN

Press and release **CH +** or **–**. The channel automatically stops at the next channel set into memory. For proper operation, before selecting channels, they should be set into the memory. See pages 17 and 18 "To memorize channels"

```
                              CH 012
```
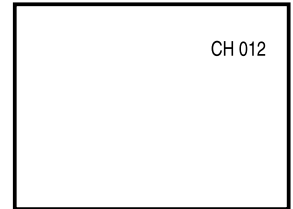
DISPLAY

Press **DISPLAY** to display the current informations on the screen. Press **DISPLAY** again to disappear the call display.

• Channel number or VIDEO mode
• Stereo or SAP (second audio program) audio status
• Audio output status

```
STEREO  SAP          CH 012



SEL. MONO+SAP
```
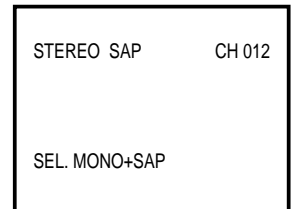
TV RETURN

This button allows you to go back to the last channel selected by pressing **TV RETURN**. Press **TV RETURN** again to return to the last channel you were watching.

```
                              CH 007
```
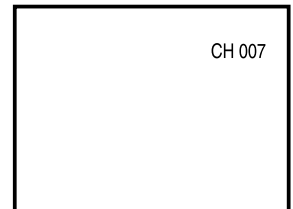
SLEEP TIMER

To set the TV/DVD to turn off after a preset amount of time, press **SLEEP TIMER** on the remote control. The clock will count down 10 minutes for each press of **SLEEP TIMER** (120, 110, ...10, 0). After the sleep time is programmed, the display will appear briefly every ten minutes to remind you that the sleep timer is operating. To confirm the sleep timer setting, press **SLEEP TIMER** and the remaining time will be displayed for a few seconds. To cancel the sleep timer, press **SLEEP TIMER** repeatedly until the display turns to 0.

```
                             SLEEP
                               120
```

15
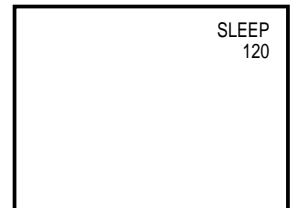
Closed caption

WHAT IS CLOSED CAPTIONING?

This television has the capability to decode and display Closed Captioned television programs. Closed Captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.
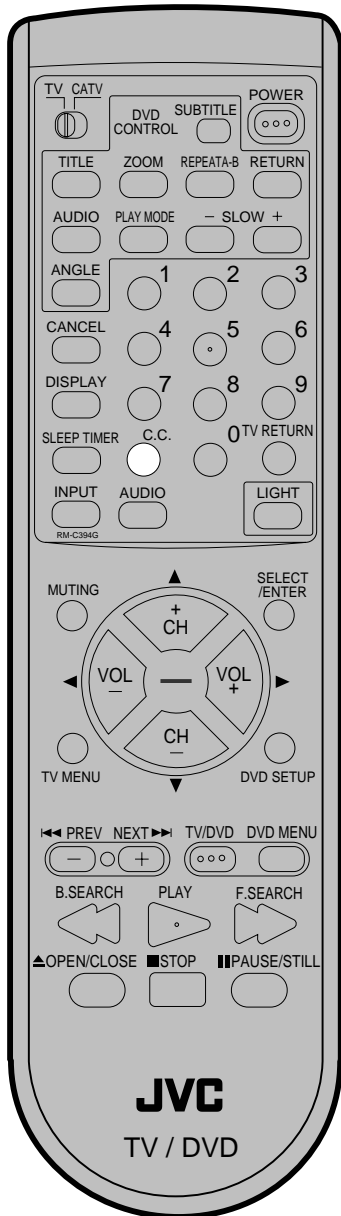
Captions: This Closed Caption Mode will display text on the screen in English or another language (depending on the setting of the Closed Captions CH 1/2).

Generally, Closed Captions in English are transmitted on Captions Channel 1 and Closed Captions in other languages are transmitted on Captions Channel 2.

Text: The Text Closed Caption Mode will usually fill the screen with a programming schedule or other information.

After selecting a Closed Caption Mode, it will stay in effect until it is changed, even if the channel is changed.

If the Captions signal is lost due to a commercial or a break in the signal, the Captions will reappear when the signal is received again. If the channels are changed, the Captions will be delayed approximately 10 seconds. The Captions will appear in places on the screen where they will least interfere with the picture, usually on the bottom of the screen. News programs will usually show three-line Closed Captions which scroll onto the screen. Most other shows provide two or three lined Captions placed near the character who is speaking so the viewer can follow the dialogue. Words in italics or underlined describe titles, words in foreign languages or words requiring emphasis. Words that are sung usually appear enclosed by musical notes.

For television programs broadcasting with Closed Captions, look in your TV guide for the Closed Captions symbol (CC).

TO VIEW CLOSED CAPTIONS

Press **C.C.** to switch between normal TV and the two closed caption modes (captions and full screen text). Closed captioning will display text on the screen for hearing impaired viewers.

CAPTION CH 1
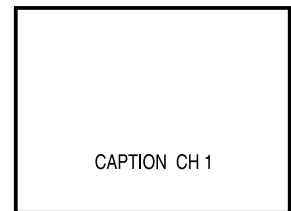
NOTES:

- When selecting Closed Captions, the captioning will be delayed approximately 10 seconds.
- If no caption signal is received, no captions will appear, but the television will remain in the Caption Mode.
- Misspellings or unusual characters may occasionally appear during Closed Captioning. This is normal with Closed Captioning, especially with live programs. This is because during live programs, captions are also entered live. These transmissions do not allow time for editing.
- When Captions are being displayed, on-screen displays, such as volume and mute may not be seen or may interfere with Closed Captions.
- Some cable systems and copy protection systems may interfere with the Closed Captioned signal.
- If using an indoor antenna or if TV reception is very poor, the Closed Caption Decoder may not appear or may appear with strange characters or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.

16

To memorize channels

This TV/DVD is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the TV/DVD's memory. In addition to normal VHF and UHF channels, this TV/DVD can receive up to 113 Cable TV channels. To use this TV/DVD with an antenna, set the TV/CATV menu option to the TV mode. When shipped from the factory, this menu option is in the CATV mode.
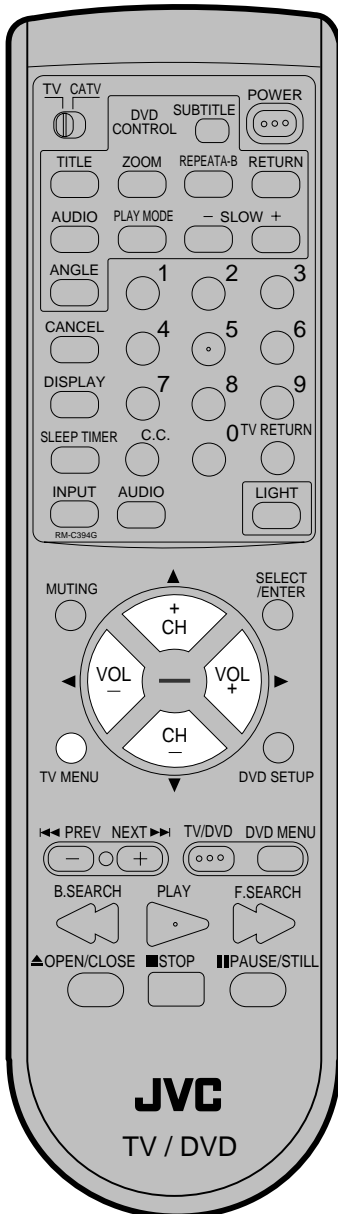
TV/CATV SELECTION

1 Press **TV MENU** in the TV mode.
The TV menu screen will appear.

2 Press ◀ or ▶ until the CHANNEL-SETUP menu appears.

TV/CATV   CATV
ADD/DELETE   ADD
AUTO CH MEMORY

‹▲ / ▼ / ◀ / ▶/MENU›

3 Press ▲ or ▼ to select the "TV/CATV".
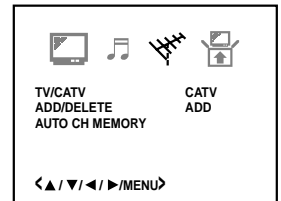
▶TV/CATV   CATV
ADD/DELETE   ADD
AUTO CH MEMORY

‹▲ / ▼ / ◀ / ▶/MENU›

4 Press ◀ or ▶ to select the TV or CATV mode.

TV - VHF/UHF channels
CATV - CABLE TV channels

▶TV/CATV   TV
ADD/DELETE   ADD
AUTO CH MEMORY

‹▲ / ▼ / ◀ / ▶/MENU›

5 Press **TV MENU** until the MENU screen is cleared.

17
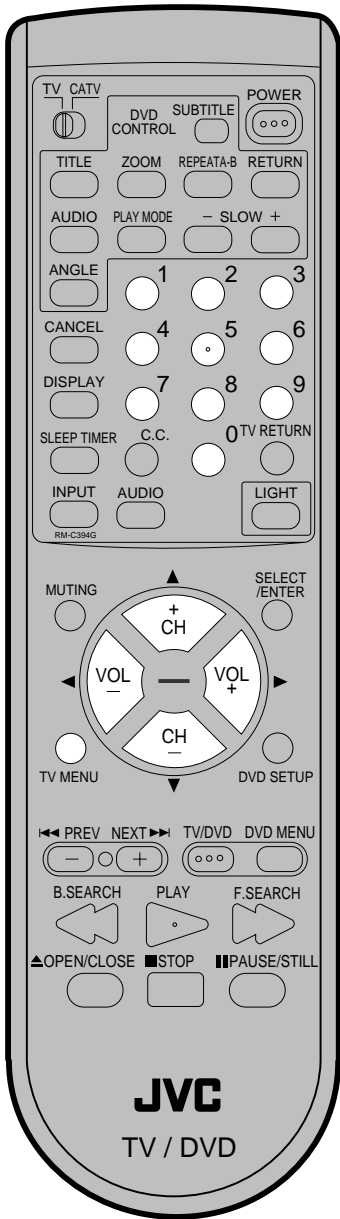
AUTOMATIC MEMORY TUNING

1 Press **TV MENU** in the TV mode. The TV menu screen will appear.

2 Press ◀ or ▶ until CHANNEL-SETUP menu appears.

```
📺  🎵  📡  📺

TV/CATV        CATV
ADD/DELETE     ADD
AUTO CH MEMORY

〈▲ / ▼ / ◀ / ▶/MENU〉
```
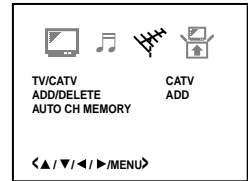
3 Press ▲ or ▼ to select the "AUTO CH MEMORY", then press ◀ or ▶. The TV will begin memorizing all the channels available in your area.

```
📺  🎵  📡  📺

TV/CATV        CATV
ADD/DELETE     ADD
▶ AUTO CH MEMORY

〈▲ / ▼ / ◀ / ▶/MENU〉
```
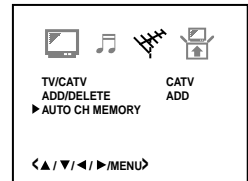
4 Press **TV MENU** until the MENU screen is cleared.

TO ADD/DELETE CHANNELS

1 Select the desired channel to be memorized or deleted using **Direct Channel Selection (0-9)**, or **CH +** or **–**.

2 Press **TV MENU** in the TV mode. The TV menu screen will appear.

3 Press ◀ or ▶ until CHANNEL-SET UP menu appears.

```
📺  🎵  📡  📺

TV/CATV        CATV
ADD/DELETE     ADD
AUTO CH MEMORY

〈▲ / ▼ / ◀ / ▶/MENU〉
```
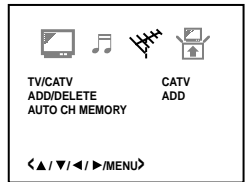
4 Press ▲ or ▼ to select the "ADD/DELETE".

```
📺  🎵  📡  📺

TV/CATV        CATV
▶ ADD/DELETE   ADD
AUTO CH MEMORY

〈▲ / ▼ / ◀ / ▶/MENU〉
```
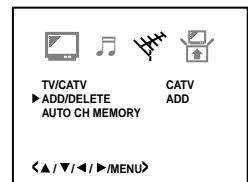
5 Press ◀ or ▶ to select ADD or DELETE, whichever function you want to perform.

```
📺  🎵  📡  📺

TV/CATV        CATV
▶ ADD/DELETE   DELETE
AUTO CH MEMORY

〈▲ / ▼ / ◀ / ▶/MENU〉
```
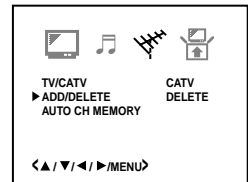
6 Press **TV MENU** until the MENU screen is cleared.

7 Repeat steps 1-6 for other channels you want to add or delete.

TV CATV
DVD CONTROL SUBTITLE POWER
TITLE ZOOM REPEATA-B RETURN
AUDIO PLAY MODE – SLOW +
ANGLE   1   2   3
CANCEL   4   5   6
DISPLAY   7   8   9
SLEEP TIMER C.C. 0 TV RETURN
INPUT AUDIO LIGHT
RM-C394G
MUTING   SELECT /ENTER
           + CH
◀ VOL – — VOL + ▶
           CH –
TV MENU   DVD SETUP
I◀◀ PREV NEXT ▶▶I TV/DVD DVD MENU
B.SEARCH PLAY F.SEARCH
▲OPEN/CLOSE ■STOP �IIPAUSE/STILL
JVC
TV / DVD

18

An age limitation can be set to forbid children to see and hear violent scenes or pictures for adults, etc. The TV/DVD corresponds to "TV RATING" and "MOVIE RATING". To use the V-Chip function, you must register a password.

TO REGISTER PASSWORD
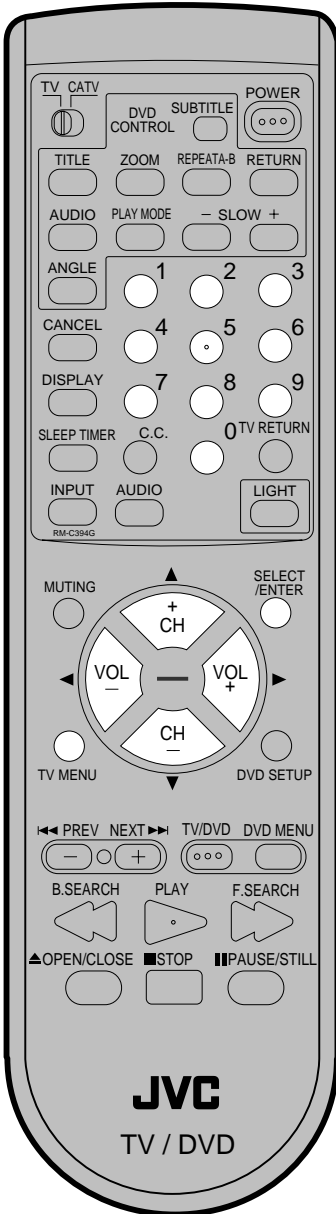
1 Press **TV MENU** in the TV mode. The TV menu screen will appear.
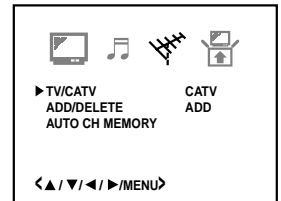
2 Press ◀ or ▶ until the SETUP menu appears.

> V-CHIP SET
> LANGUAGE/IDIOMA/LANGUE
>
> ‹▲ / ▼/ ◀ / ▶/MENU›

3 Press ▲ or ▼ to select the "V-CHIP SET", then press ◀ or ▶.

> ▶ V-CHIP SET
> LANGUAGE/IDIOMA/LANGUE
>
> ‹▲ / ▼/ ◀ / ▶/MENU›

4 Enter the password (4 digits) using **Direct Channel Selection (0-9)**, then press **ENTER**.

> V-CHIP SET
>
> NEW
> PASSWORD
>
> ‹0−9/ENTER/CANCEL/MENU›

"∗" appears instead of the number.

5 Enter the same password again for the safety, then press **ENTER**. Now the password was registered and V-Chip setting menu will appear on the display.

> V-CHIP SET
>
> CONFIRM
> PASSWORD   :∗∗∗∗
>
> ‹0−9/ENTER/CANCEL/MENU›

NOTES:
- If you forget the password, you cannot set the V-Chip.
- To avoid forgetting the password, write it down and keep in the safe place.

19

TO SET THE V-CHIP

1 In the V-CHIP SET menu, press ▲ or ▼ to select the "US TV RATING".

```
V-CHIP SET
V-CHIP            : OFF
►US TV RATING      : TV-Y
 MOVIE RATING     : OFF
 CAN ENG RATING   : OFF
 CAN FRE RATING   : OFF
 CHANGE PASSWORD

‹▲ / ▼/ ◄ / ►/MENU›
```

2 Press ◄ or ► to display the desired setting.

OFF : US TV RATING is not set
TV-Y : All children
TV-Y7 : 7 years old and above
TV-G : General Audience
TV-PG: Parental guidance
TV-14 : 14 years old and above
TV-MA: 17 years old and above

When you select TV- Y7, TV-PG, TV-14 or TV-MA, press **DISPLAY** to show the contained rating. Press ▲or ▼ to select the desired item you want. Press ◄ or ► to select ON or OFF. If you want to back to V-CHIP SET menu, press **TV MENU**.

3 Press ▲ or ▼ to select the "MOVIE RATING". Press ◄ or ► to select desired rating.

```
V-CHIP SET
V-CHIP            : OFF
 US TV RATING     : OFF
►MOVIE RATING      : G
 CAN ENG RATING   : OFF
 CAN FRE RATING   : OFF
 CHANGE PASSWORD

‹▲ / ▼/ ◄ / ►/MENU›
```

OFF : MOVIE RATING is not set
G : All ages
PG : Parental guidance
PG-13 : Parental guidance less than 13 years old
R : Under 17 years old Parental guidance suggested
NC-17 : 17 years old and above
X : Adult only

4 Press ▲ or ▼ to select the "CAN ENG RATING", then press ◄ or ►to select desired rating.

```
V-CHIP SET
V-CHIP            : OFF
 US TV RATING     : OFF
 MOVIE RATING     : OFF
►CAN ENG RATING    : G
 CAN FRE RATING   : OFF
 CHANGE PASSWORD

‹▲ / ▼/ ◄ / ►/MENU›
```

E: Exempt
Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
C: Programming Intended for Children
Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.
C8+: Programming Intended for Children 8 and Over
Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.
G: General Audience
Programming will contain little violence and will be sensitive to themes which could affect younger children.
PG: Parental Guidance
Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.
14+: 14 Years and Older
Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early
teens. Programming may contain mature themes and scenes of intense violence.
18+: Adult
Material intended for mature audiences only.

To use after the TV is protected
When the program applied to the V-Chip setting is received, enter the password. Protection can be cancelled.
NOTE:
The V-Chip function is activated only on programs and tapes that have the rating signal.

(Remote control illustration)

TV CATV
DVD CONTROL SUBTITLE POWER
TITLE ZOOM REPEATA-B RETURN
AUDIO PLAY MODE − SLOW +
ANGLE 1 2 3
CANCEL 4 5 6
DISPLAY 7 8 9
SLEEP TIMER C.C. 0 TV RETURN
INPUT AUDIO LIGHT
RM-C394G
MUTING SELECT /ENTER
+ CH
VOL − − VOL +
CH −
TV MENU DVD SETUP
I◄◄ PREV NEXT ►►I TV/DVD DVD MENU
B.SEARCH PLAY F.SEARCH
▲OPEN/CLOSE ■STOP IIPAUSE/STILL
JVC
TV / DVD

5 Press ▲ or ▼ to select "V-CHIP". Press ◀ or ▶ to display "ON" to activate the V-Chip function.

```
V-CHIP SET
▶V-CHIP           : ON
 TV RATING        : TV-Y
 MOVIE RATING     : G
 CAN ENG RATING   : OFF
 CAN FRE RATING   : OFF
 CHANGE PASSWORD

⟨▲ / ▼/ ◀ / ▶/MENU⟩
```

6 Press **TV MENU** until the MENU screen is cleared.
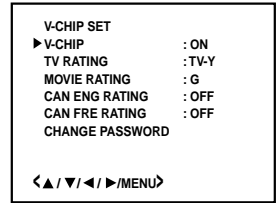
TO CHANGE PASSWORD

1 Press **TV MENU** in the TV mode. The TV menu screen will appear.
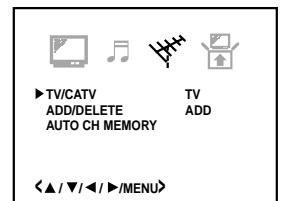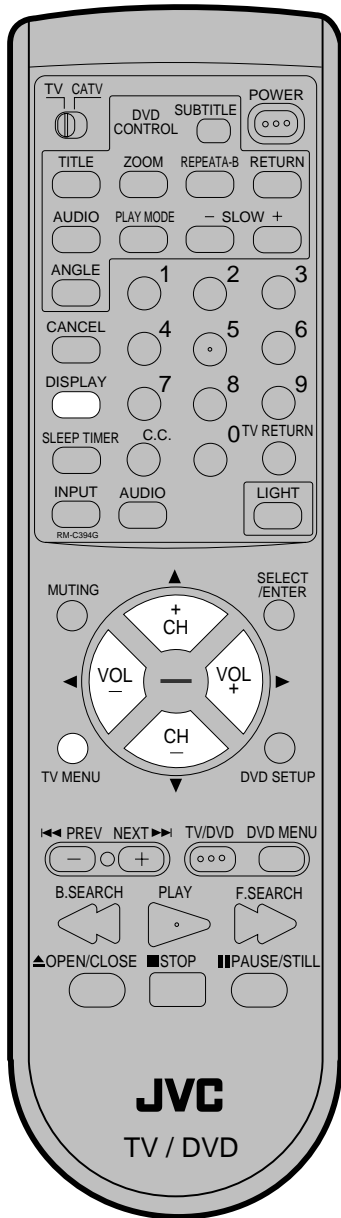
2 Press ◀ or ▶ until SETUP menu appears.

```
   📺    🎵  ⫤  🔼

 V-CHIP SET
 LANGUAGE/IDIOMA/LANGUE


⟨▲ / ▼/ ◀ / ▶/MENU⟩
```

3 Press ▲ or ▼ to select the "V-CHIP SET", then press ◀ or ▶.

```
   📺    🎵  ⫤  🔼

▶V-CHIP SET
 LANGUAGE/IDIOMA/LANGUE


⟨▲ / ▼/ ◀ / ▶/MENU⟩
```

4 Enter the Password using **Direct Channel Selection (0-9)**, then press **ENTER**.

```
   📺    🎵  ⫤  🔼

 V-CHIP SET

 PASSWORD        -----

⟨0 –9/ENTER/CANCEL/MENU⟩
```
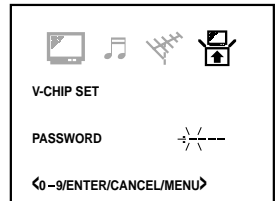
5 Press ▲ or ▼ to select "CHANGE PASSWORD", then press ◀ or ▶.

```
 V-CHIP SET
 V-CHIP           : ON
 TV RATING        : TV-Y
 MOVIE RATING     : G
 CAN ENG RATING   : OFF
 CAN FRE RATING   : OFF
▶CHANGE PASSWORD

⟨▲ / ▼/ ◀ / ▶/MENU⟩
```
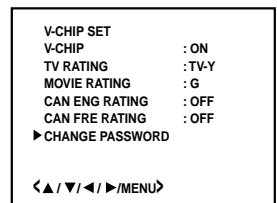
6 Enter the new password using **Direct Channel Selection (0-9)**, then press **ENTER**.

```
 CHANGE PASSWORD

 NEW
 PASSWORD        -----




⟨0 –9/ENTER/CANCEL/MENU⟩
```
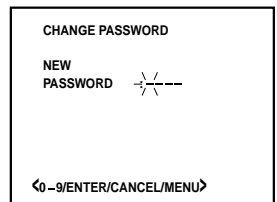
7 Enter the same password again for safety, then press **ENTER**.

```
 CHANGE PASSWORD

 CONFIRM
 PASSWORD        -----




⟨0 –9/ENTER/CANCEL/MENU⟩
```
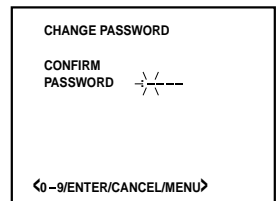
8 Press **TV MENU** repeatedly to return to normal screen.

TV CATV
DVD SUBTITLE
CONTROL
POWER
TITLE ZOOM REPEATA-B RETURN
AUDIO PLAY MODE − SLOW +
ANGLE 1 2 3
CANCEL 4 5 6
DISPLAY 7 8 9
SLEEP TIMER C.C. 0 TV RETURN
INPUT AUDIO LIGHT
RM-C394G
MUTING SELECT /ENTER
+ CH
VOL − — VOL +
CH −
TV MENU DVD SETUP
◀◀ PREV NEXT ▶▶ TV/DVD DVD MENU
B.SEARCH PLAY F.SEARCH
⏏OPEN/CLOSE ■STOP ❚❚PAUSE/STILL

JVC
TV / DVD

21

Picture control adjustment

Picture controls are factory preset but you can adjust them individually as follows:
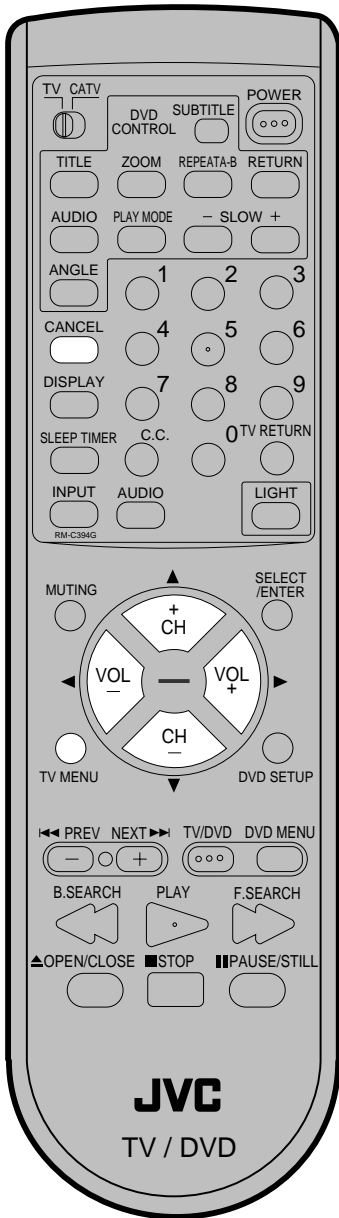
1 Press **TV MENU** in the TV mode. The TV menu screen will appear.

2 Press ◀ or ▶ until PICTURE menu appears.

```
BRIGHTNESS      0
CONTRAST      +32
COLOR           0
TINT            0
SHARPNESS       0
```
⟨▲ / ▼/ ◀ / ▶/MENU⟩

3 Press ▲ or ▼ to select the item you want to adjust.

```
▶BRIGHTNESS     0
 CONTRAST      +32
 COLOR          0
 TINT           0
 SHARPNESS      0
```
⟨▲ / ▼/ ◀ / ▶/CANCEL/MENU⟩
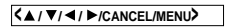
4 Press ◀ or ▶ to adjust the setting.

	▶	◀
BRIGHTNESS	increase brightness	decrease brightness
CONTRAST	increase contrast	decrease contrast
COLOR	be brilliant color	be pale color
TINT	be greenish color	be reddish color
SHARPNESS	makes picture clearer	makes picture softer

5 After your desired setting press **TV MENU** until the MENU screen is cleared.

CANCEL
Pressing **CANCEL** while making picture adjustments will return all adjustments to the factory preset levels.

NOTE:
The CONTRAST default setting is set to maximum at the factory.

TV CATV
DVD CONTROL SUBTITLE POWER
TITLE ZOOM REPEATA-B RETURN
AUDIO PLAY MODE − SLOW +
ANGLE
1 2 3
CANCEL
4 5 6
DISPLAY
7 8 9
SLEEP TIMER C.C. 0 TV RETURN
INPUT AUDIO LIGHT
RM-C394G

MUTING SELECT/ENTER
+ CH
VOL − VOL +
CH −
TV MENU DVD SETUP

I◀◀ PREV NEXT ▶▶I TV/DVD DVD MENU
B.SEARCH PLAY F.SEARCH
▲OPEN/CLOSE ■STOP IIPAUSE/STILL

JVC
TV / DVD

22

Stereo and separate audio program (SAP)

The TV/DVD is equipped with a feature known as Multi-channel TV Sound or MTS. MTS broadcasts greatly enhance TV viewing by bringing you programs with high fidelity stereo sound.
MTS also provides an extra channel called the Separate Audio Program or SAP which broadcasters can use to transmit a second language for bilingual transmission or for other purposes.
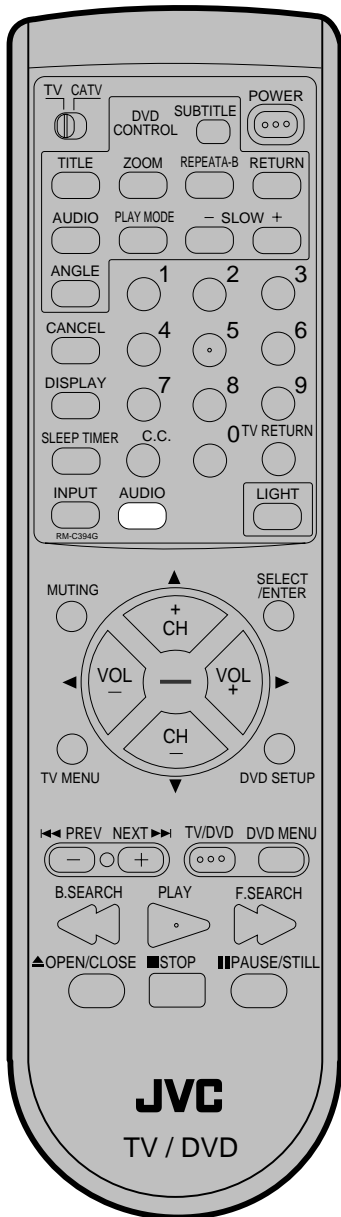
LISTENING TO STEREO SOUND

When the TV is turned on or a channel selection is made, make certain the STEREO appears on the screen. This means that "Stereo" broadcasting is available. You can enjoy stereo sound from the left and right speakers.

```
STEREO          CH 013
```
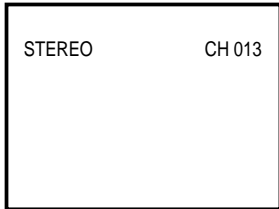
• When "Mono" broadcasting is received, no indication is displayed.
• If the broadcast signal is not strong enough or clear stereo sound is not available, press **AUDIO** on the center of the remote control to change to mono sound. The noise should be eliminated. Press it again to return to the stereo sound.

LISTENING TO SAP (SEPARATE AUDIO PROGRAM)

When the TV is turned on or a channel selection is made, make certain the SAP appears on the screen. This means that the "Separate Audio Program" broadcasting is available.

```
STEREO  SAP     CH 013
```
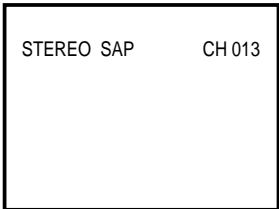
TO SELECT DESIRED SOUND

Press **AUDIO** to select the desired sound.

```
SEL. STEREO
```

MONO+SAP BROADCASTING

MONO SOUND (MAIN) → SAP SOUND → MONO + SAP SOUND (MONO)
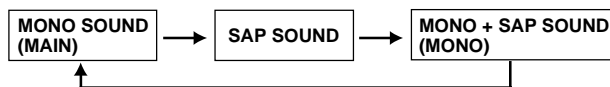
STEREO+SAP BROADCASTING

STEREO SOUND (MAIN) → SAP SOUND → MONO + SAP SOUND (MAIN) → MONO SOUND (MAIN) → STEREO SOUND (MAIN)
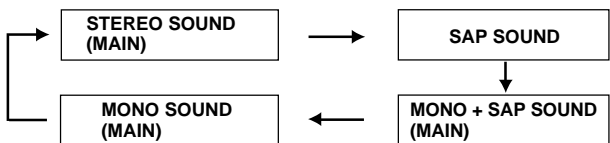
Sound control adjustment

Sound controls are factory preset but you can adjust them individually as follows:
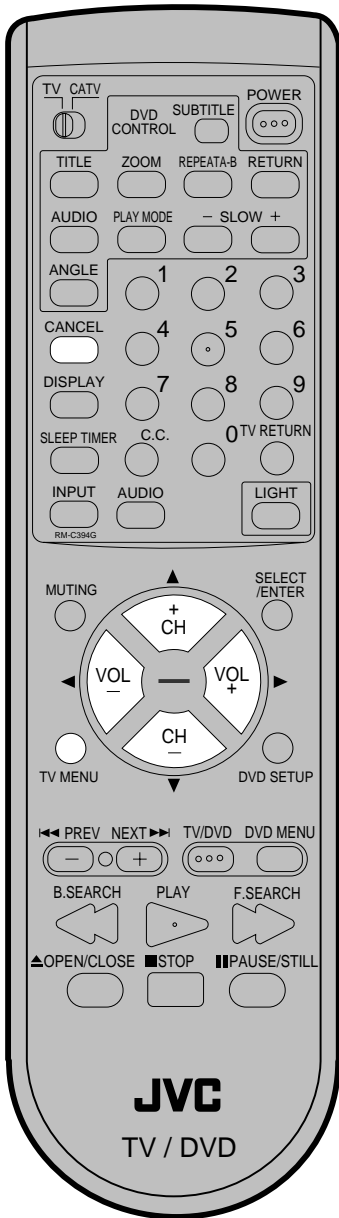
1 Press **TV MENU** in the TV mode.
The TV menu screen will appear.

2 Press ◀ or ▶ until the AUDIO menu appears.

```
BASS        0
TREBLE      0
BALANCE     0

〈▲ / ▼ / ◀ / ▶/MENU〉
```

3 Press ▲ or ▼ to select the item you want to adjust.

```
▶BASS        0
 TREBLE      0
 BALANCE     0

〈▲ / ▼ / ◀ / ▶/CANCEL/MENU〉
```
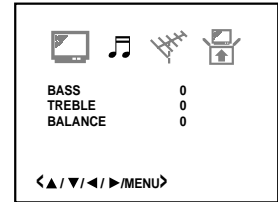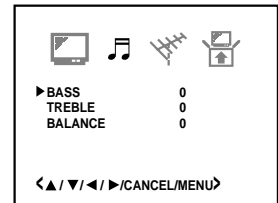
4 Press ◀ or ▶ to adjust the setting.

BASS:
Press ◀ or ▶ to adjust the bass sound.
TREBLE:
Press ◀ or ▶ to adjust the treble sound.
BALANCE:
Press ◀ or ▶ to obtain an equal sound level from both speakers.

5 After your desired setting press **TV MENU** until the MENU screen is cleared.

CANCEL
Pressing **CANCEL** while making sound adjustments will return all adjustments to the factory preset levels.

24

The unit detects whether the disc loaded is a DVD disc or Audio CD and automatically sets the mode.

Disc Notes

Do not play DVD-ROM, DVD-Audio, CD-ROM, CD-R, CDV, CD-G, Video CD or Photo CD to prevent accidental erasure of prerecorded material.
This unit applies to DVD discs from Region 1 only. Other Region number discs cannot be played with this unit.
This unit does not play MP3 files.

Title/Chapter/Track

Title

When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a "TITLE".
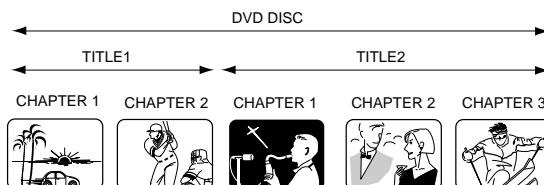
Chapter

The titles can be subdivided into many sections. Each section is called a "CHAPTER".

Track

An Audio CD can contain several items.
These are assigned to the tracks.
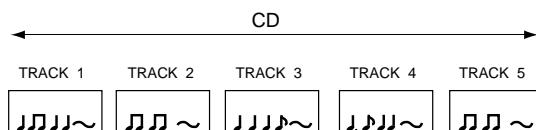
Removing Disc from Case

Be sure to hold the edge of disc. Do not touch the surface of the disc.
Pick up the disc gently from the case.

• Do not scratch the disc.
• Do not get dirt on the surface of the disc.
• Do not stick a label or adhesive tape on the disc.
• Do not drop or bend the disc.

Storing Disc

• Store the disc in the case to avoid risk of scratches, dirt or damage.
• Do not leave disc exposed to direct sunlight or in hot or humid places.

Cleaning Disc

Wipe the disc with a clean, dry cloth from centre to edge.
• Do not wipe the disc round.
• Do not use liquid or aerosol cleaners.
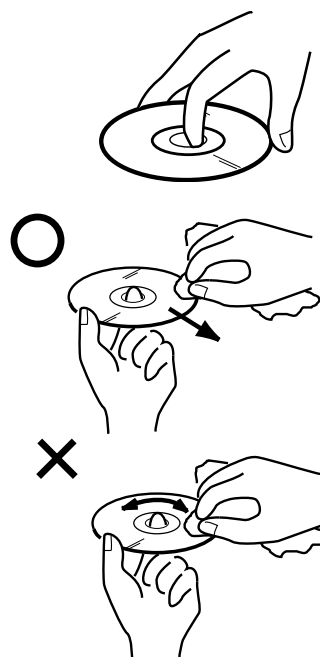
Setting setup language

The setup language can be selected.

• If the unit does not operate properly:
Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
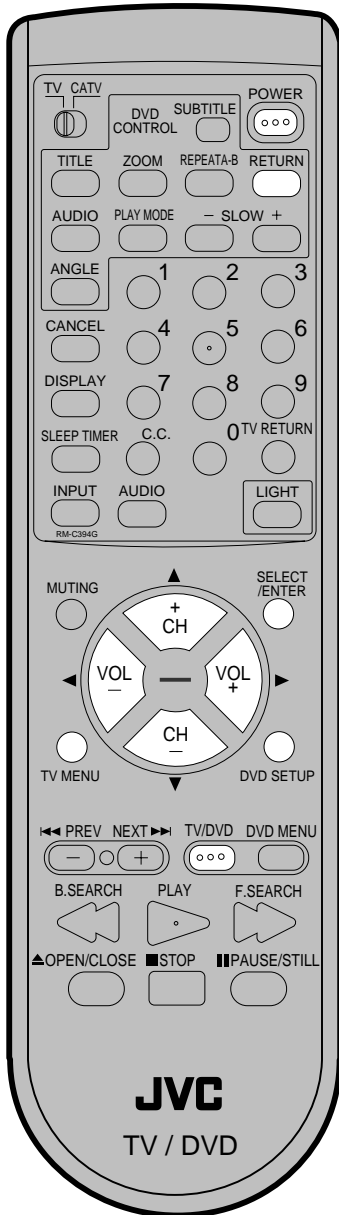
Preparation

• Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.
  Note: When connecting to other equipment, unplug the unit from the AC outlet.
• Press **POWER** on the unit or on the remote control to turn on the unit. The POWER indicator will light.
• When using an amplifier, switch on the amplifier.

1 Press **TV/DVD** to select the DVD mode.
"READING" changes "NO DISC".
(If DVD disc has already loaded, the playback will start automatically.)

Reading
DVD
VIDEO ™

2 Press **DVD SETUP** in the stop mode.
Press ◀ or ▶ to select Other.

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return
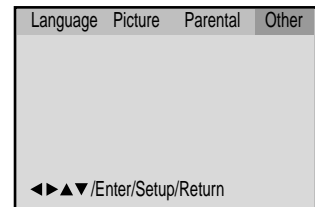
3 Press ▼ to select OSD Language.

Language	Picture	Parental	Other

OSD Language   English

◀▶▲▼/Enter/Setup/Return
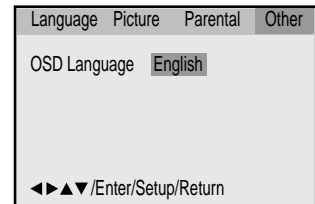
4 Press ▶ and then press ▲ or ▼ to select desired language(e.g. English), then press **ENTER**.
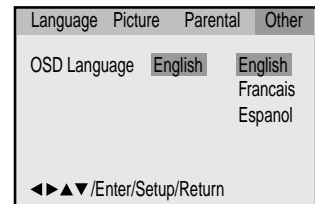
Language	Picture	Parental	Other

OSD Language   English   English
                         Francais
                         Espanol

◀▶▲▼/Enter/Setup/Return

NOTE: To make SETUP screen disappear, press **DVD SETUP** (or **RETURN**) while the SETUP screen is shown.

Playback procedure

1 Press **OPEN/CLOSE** on the unit. The disc tray will open.

2 Place a disc onto the tray. Hold the disc, position it with the printed label side up, align it with the guides, and place it in its proper position.

3 Press **PLAY** or **OPEN/ CLOSE** on the unit. The disc tray closes automatically. On the TV-screen, ⏏ changes to "Reading" and then playback commences.

Reading

• A menu screen may appear on the TV screen, if the disc has a menu feature. In this case, press ▲, ▼, ◀, ▶ or **SELECT** to operate a menu feature.

4 Press **STOP** to end playback.
• The unit records the stopped point, depending on the disc. "◗" appears on the screen. Press **PLAY** to resume playback (from the scene point).
• If you press **STOP** again or unload the disc ("■" appears on the screen.), the unit will clear the stopped point.

5 To stop the playback, press **STOP**. Then press **OPEN/CLOSE** on the unit. The disc tray opens. Remove the disc and press **OPEN/CLOSE** on the unit then press **POWER**. The disc tray closes automatically and unit turns off.

Note:
• If a non-compatible disc is loaded, "Incorrect Disc", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (See pages 25 and 35).
• Some discs may take a minute or so to start playback.
• When you set a single-faced disc label downwards (ie. the wrong way up) and press **PLAY** or **OPEN/CLOSE** on the unit, "Reading" will appear on the display for 10 seconds and then "No Disc" will continue to be displayed.
• Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc contents the software producers designed, some playback features may not be available. Also refer to the instructions supplied with the DVDs.
• When playing DTS-encoded Audio CDs, excessive noise will be heard from the analogue stereo outputs. To avoid possible damage to the audio system, the consumer should take proper precautions when the analogue stereo outputs of the DVD player are connected to an amplification system.

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Special playback

Note: there may be a slight delay between you pressing the button and the function activating.
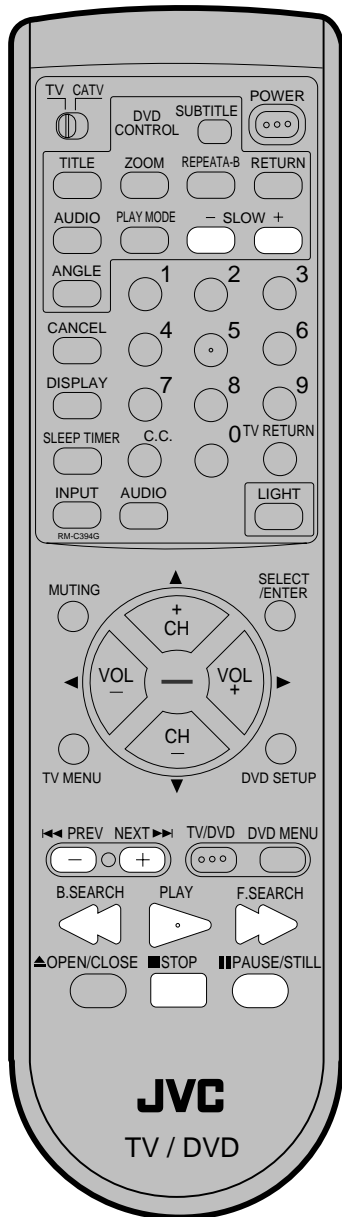
Note:
The unit is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen. Projection televisions are very susceptible.

Fast Forward Playback

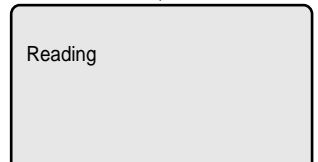Press **F. SEARCH** during normal playback.
Each press of the **F. SEARCH** button will increase the speed of the search x2, x4, x8, x20.

• To resume normal playback, press **PLAY**.

Review Playback

Press **B. SEARCH** during normal playback.
Each press of the **B. SEARCH** button will increase the speed of the search x2, x4, x8, x20.

• To resume normal playback, press **PLAY**.

Still Playback

Press **PAUSE** during normal playback to pause playback.

To resume normal playback, press **PLAY**.

Frame Advance

Press **PAUSE** during still playback.
One frame is advanced each time you press **PAUSE**.

To resume normal playback, press **PLAY**.

Slow-motion Playback

Press **SLOW (–)** Reverse or **SLOW (+)** Forward during normal playback or still playback.
Each press of **SLOW** will change the speed of the slow x1/2, x1/4, x1/6, x1/7.

• To resume normal playback, press **PLAY**.
• To resume the still playback, press **PAUSE**.

Locating a chapter or track

Press **NEXT (▶▶I)** Forward or **PREV (I◀◀)** Reverse during playback to locate a chapter that you want to watch.
Each time you press the button, a chapter or track is skipped.

Zooming

Zooming

This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.
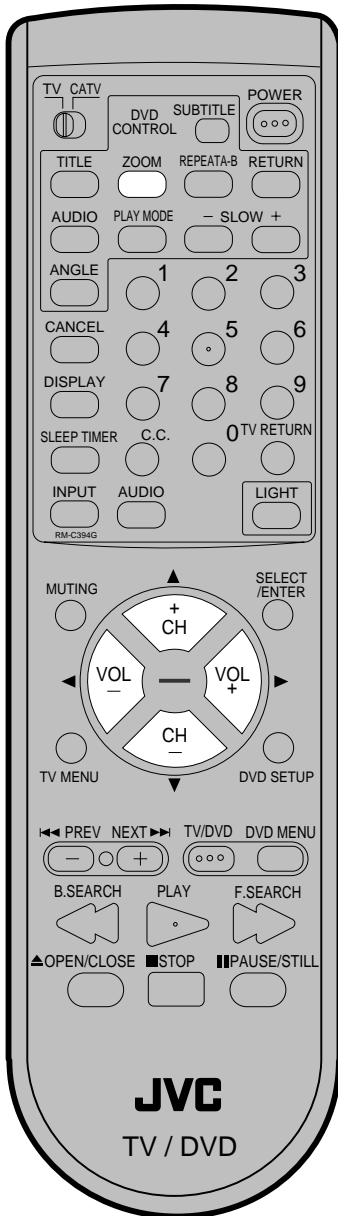
1 Press **ZOOM** during playback.
The centre part of the image will be zoomed in. Each press of **ZOOM** will change the ZOOM Q 1 (x 1.3), Q 2 (x 1.5) and Q 3 (x 2.0).

Q 1

2 Press ▲/▼ or ◀/▶ to view a different part of the frame. You may move the frame from the centre position to UP, DOWN, LEFT or RIGHT direction.

3 In the zoom mode press **ZOOM** repeatedly to return to a 1:1 view (Q Off).

Note:
You can select the Pause, Slow or Search playback in the zoom mode. However, you cannot zoom in during the Slow or Search playback.

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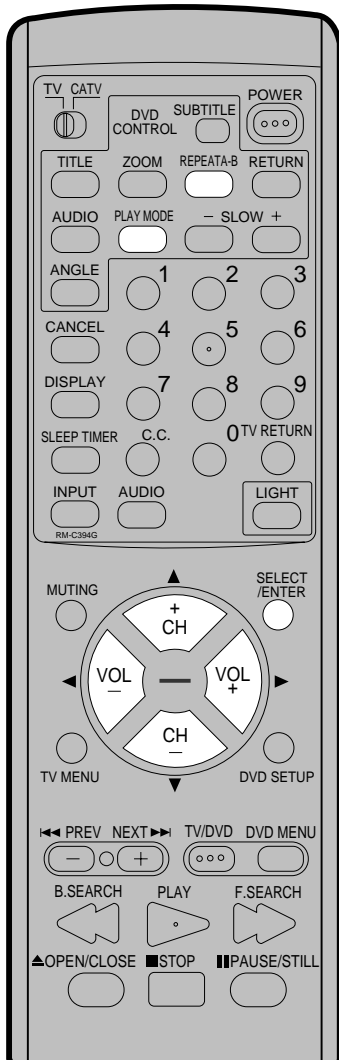
Repeat playback

Title, Chapter, Track Playback

Press **PLAY MODE** during playback or stop mode.

DVD

Press ◀ / ▶ or **ENTER** once or twice to select Chapter or Title.

Repeat : Off ◀▶ /Enter/Play Mode	Repeat : Chapter ◀▶ /Enter/Play Mode	Repeat : Title ◀▶ /Enter/Play Mode
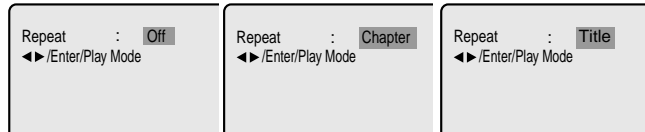
Audio CD

Press ▼ to select Repeat.

Press ◀ / ▶ or **ENTER** once or twice to select Track or All.

Play Mode : Off Repeat : Off ◀▶▲▼/Enter/Play Mode	Play Mode : Off Repeat : Track ◀▶▲▼/Enter/Play Mode	Play Mode : Off Repeat : All ◀▶▲▼/Enter/Play Mode
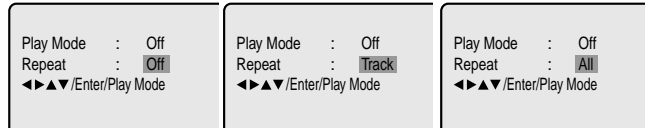
Press **PLAY MODE** again to make the screen disappear.
Press **PLAY** to start Repeat playback.
To resume normal playback, select Repeat Off.

A-B Repeat Playback

A-B repeat playback allows you to repeat material between two selected points.

1 Press **REPEAT A-B** during playback.
The start point is selected.
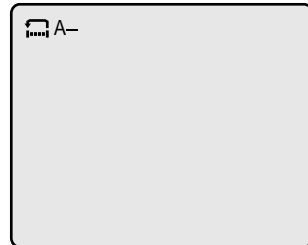
2 Press **REPEAT A-B** again. The end point is selected. Playback starts at the point that you selected. Playback stops at the end point, returns to Point A automatically, then starts again.
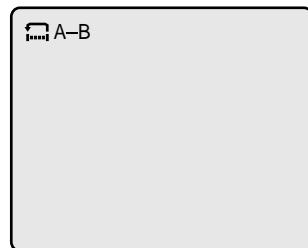
To resume normal playback press **REPEAT A-B** again.
"⟨⟩ Off" appears on the screen.

Note:
- Some discs may not work with the repeat operation.
- In A-B repeat mode, subtitles near point A or B may not appear.
- During the A-B Repeat Playback the ANGLE feature will not operate.
- You may not be able to set A-B Repeat, depending on the scenes of the DVD.
- A-B repeat does not work with an interactive DVD.

Program playback/Random playback (Audio CD)

You can arrange the order of tracks on the disc.
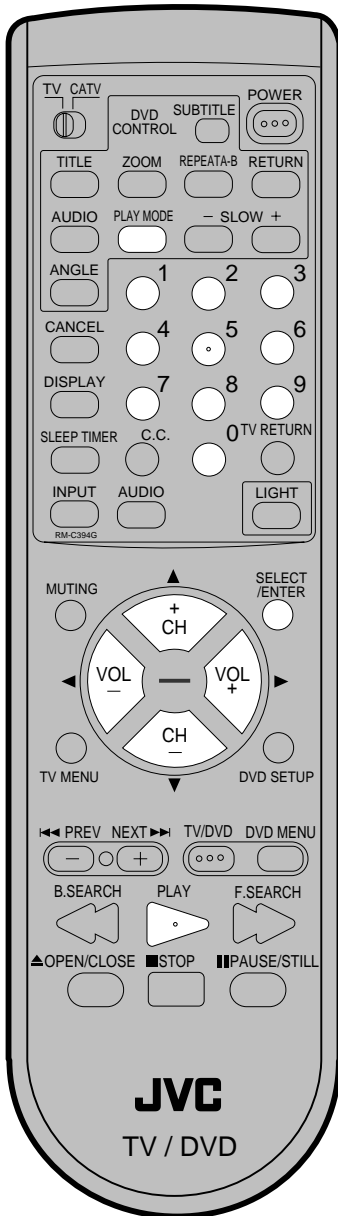
Program playback

1 Press **PLAY MODE** in the stop mode.

2 Press ▲/▼ to select Play Mode, then press ◀/▶ to select program.

```
Play Mode      : Program
Repeat         : Off
1 ---   4 ---   7 ---   10 ---
2 ---   5 ---   8 ---   11 ---
3 ---   6 ---   9 ---   12 ---
Quit          Program Playback
◀▶▲▼/Enter/0−9/Cancel/Play Mode
```

3 Press ▲/▼ or ◀/▶ to select the programming position. Use **Numbered buttons (0-9)** to input the Track numbers.
• To program others, repeat Step 3.

```
Play Mode      : Program
Repeat         : Off
1 09 -   4 ---   7 ---   10 ---
2 03 -   5 ---   8 ---   11 ---
3 11 -   6 ---   9 ---   12 ---
Quit          Program Playback
◀▶▲▼/Enter/0−9/Cancel/Play Mode
```

4 Press ▲/▼ or ◀/▶ to select Program Playback and press **ENTER**.
The programmes you selected will start to playback in the order.
To return to normal playback, select Play Mode: Off.

```
Program Playback
```
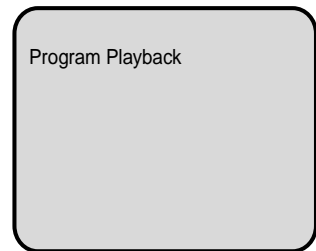
• To cancel program play, select Quit and press **ENTER**.
• The program is cancelled when you open the disc tray or turn the power off.

Random playback

1 Press **PLAY MODE** in the stop mode.

2 Press ▲/▼ to select Play Mode, then press ◀/▶ to select Random.

3 Press **PLAY**.

```
Play Mode      : Ramdom
Repeat         : Off
◀▶▲▼/Enter/Play Mode
```

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Changing soundtrack language

You can select the language when you play a multilingual disc.
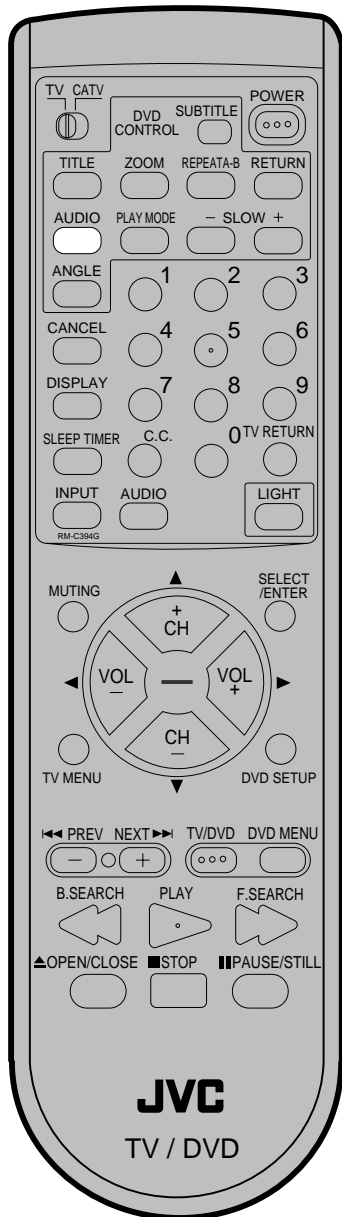
1 Press **AUDIO** during playback.

The current soundtrack language will appear.

`🔲 2/8 Fra DolbyDigital`

2 Press **AUDIO** repeatedly until the desired language is selected.

`🔲 1/8 Eng DolbyDigital`

The on-screen display will disappear after a few seconds.

Note:

- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- Changing soundtrack language is cancelled when you open the disc tray or turn the power off. The initial default language or available language will be heard if the disc is played back again.
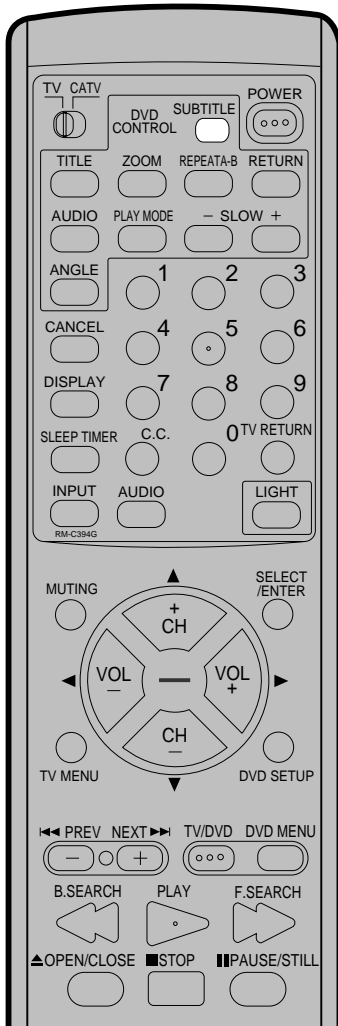
Turning the Subtitles On and Off

When playing back a disc recorded with subtitles, you can turn the subtitles on or off.

Press **SUBTITLE** during play-back until "OFF" appears.

⬚ Off
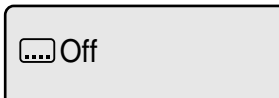
Changing the subtitle language

You can select the language when playing back a disc recorded with multi-lingual subtitles.

1 Press **SUBTITLE** repeat-edly during playback until your desired language ap-pears.

⬚ 1/32 Eng
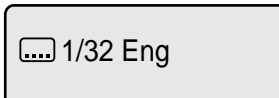
2 The on-screen display will disappear after a few seconds.

Note:
- If desired language is not selected after pressing the button several times, the language is not recorded on the disc.
- Changing subtitle language is cancelled when you open the disc tray or turn the power off.
- Depending on the DVD, you may not be able to turn the subtitles on even if they are recorded on it. Depending on the DVD, you may not be able to turn the subtitles off. Depending on the DVD, you may not be able to change the subtitles even if multilingual subtitles are recorded on it. While playing the DVD, the subtitle may change when: -you open or close the disc tray -you change the title.
- In some cases, the subtitle language is not changed to the selected one imme-diately.

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Changing angles / Title selection / DVD menu

Changing Angles

When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from.

1 Press **ANGLE** during playback.

The current angle will appear.

📹 1/9
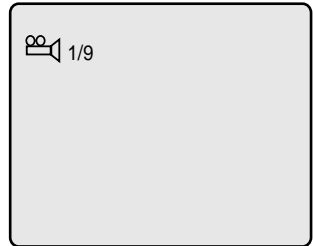
2 Press **ANGLE** repeatedly until the desired angle is selected.

Title Selection

Two or more titles are recorded on some discs. If the title menu is recorded on the disc, you can select the desired title.

1 Press **TITLE** during playback.
Title menu appears on the screen.

2 Press ▲/▼ or ◀/▶ to select the desired title.

3 Press **ENTER** or **PLAY**.
The playback of the selected title will start.

DVD Menu

Some DVDs allow you to select the disc contents using the menu.
When you play back these DVDs, you can select the sub-title language and sound-track language,etc. using the DVD menu.

1 Press **DVD MENU** during playback.
The DVD menu appears on the screen.

• Press **DVD MENU** again to resume playback at the scene when you pressed **DVD MENU**.

2 Press ▲/▼ or ◀/▶ to select the desired item.

3 Press **ENTER**.
The menu continues to another screen. Repeat steps **2** and **3** to set the item completely.

Note:
• Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.
• Depending on the DVD, you may not be able to select the title. Depending on the DVD, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

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Some discs are specified not suitable for children. Such discs can be limited not to play back with the unit.
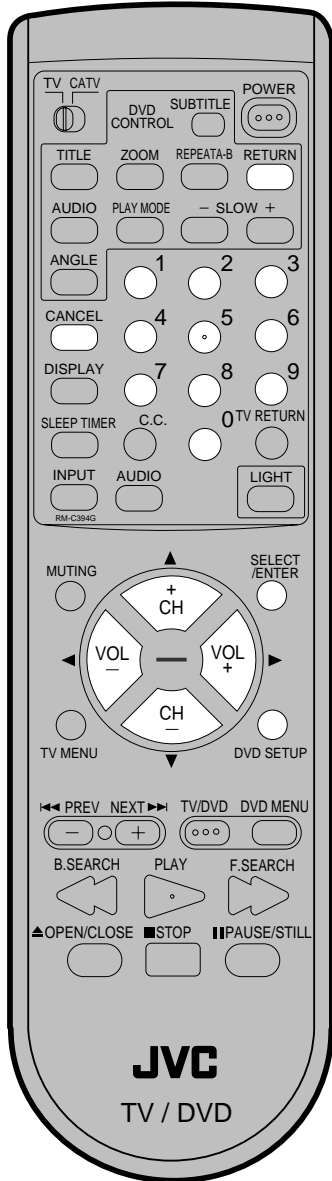
Note:

- **If each setup (P.35~42) has been completed, the unit can always be worked under the same conditions (especially with DVD discs).**
  Each setup will be retained in the memory if you turn the power off.
- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult". For those discs, the age restriction will not work.

1 Press **DVD SETUP** in the stop mode.

Press ◀ or ▶ to select Parental.
Then press ▼ or **ENTER**.

Language	Picture	Parental	Other
Password	－－－－ 🔓		
Parental	8		

0−9/Cancel
◀▶▲▼/Enter/Setup/Return
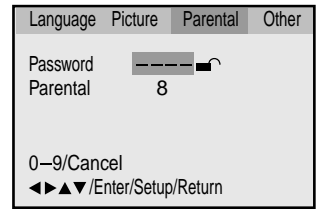
2 Press ▲ or ▼ to select Parental, then press ◀ or ▶ until the level you require appears.

Language	Picture	Parental	Other
Password	－－－－ 🔓		
Parental	1		

◀▶▲▼/Enter/Setup/Return
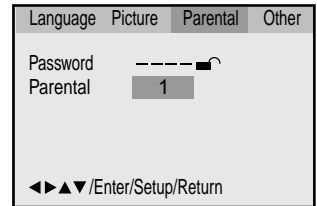
3 Press ▲ or ▼ to select Password.
Press **number buttons (0-9)** to input a 4-digit password.
Be sure to remember this number!

Language	Picture	Parental	Other
Password	1 2 3 4 🔓		
Parental	1		

0−9/Cancel
◀▶▲▼/Enter/Setup/Return
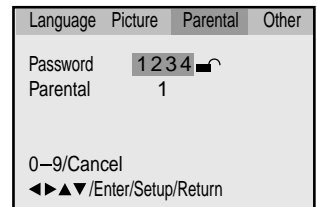
- If you input a wrong number, press **CANCEL**.

- **Level 1:** DVD software for adults cannot be played back.
- **Level 8:** All DVD software can be played back.
- Select from the level 1 to level 8. The limitation will be more severe as the level number is lower.

If you want to lock this Parental Level, press ▲ to select the Password.
Press **ENTER** to store the password.
Note: Now the rating is locked and the setting cannot be changed unless you enter the correct password.

Language	Picture	Parental	Other
Password	－－－－ 🔒		
Parental	1		

0−9/Cancel
◀▶▲▼/Enter/Setup/Return
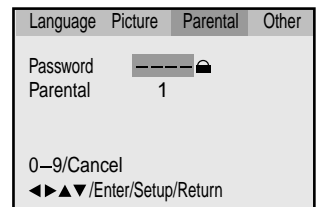
4 Press **DVD SETUP** or **RETURN** to remove the parental control screen.

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To change the parental level
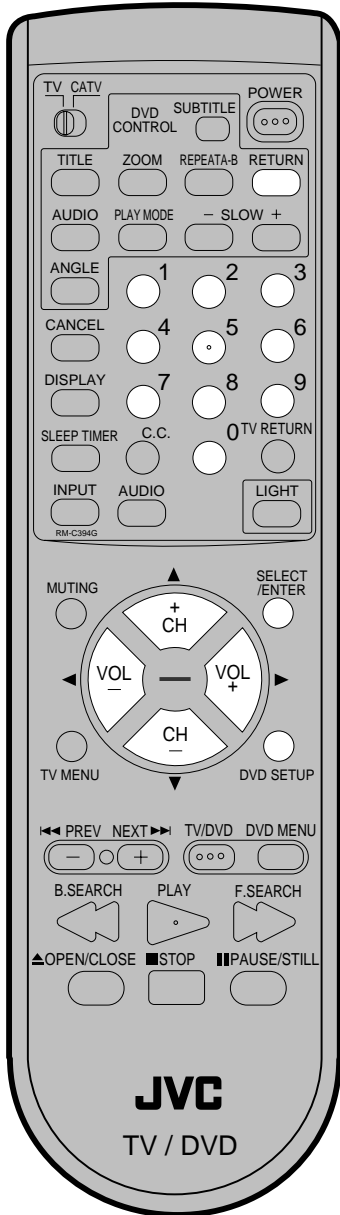
Note:

Do not forget the password. If you forget the password, contact the dealer that you purchased the unit from.

1 Press **DVD SETUP** in the stop mode or No Disc.
Press ◀ or ▶ to select Parental.
Then press ▼ or **ENTER**.

Language	Picture	Parental	Other

Password ----🔒
Parental 1

0–9/Cancel
◀▶▲▼/Enter/Setup/Return
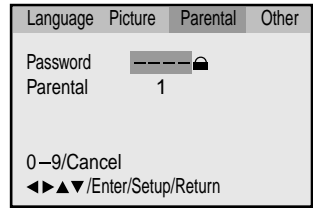
2 Press **number buttons (0-9)** to enter the password you have stored.

Language	Picture	Parental	Other

Password 1 2 3 4🔒
Parental 1

0–9/Cancel
◀▶▲▼/Enter/Setup/Return
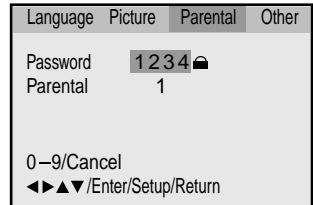
3 Press **ENTER**.
The rating is now unlocked.

Language	Picture	Parental	Other

Password ----🔓
Parental 1

0–9/Cancel
◀▶▲▼/Enter/Setup/Return
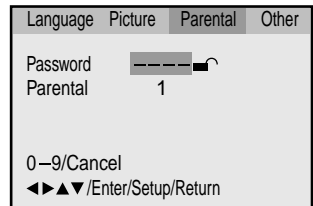
4 Press ▲ or ▼ to select Parental, then press ◀ or ▶ to change the parental level.

Language	Picture	Parental	Other

Password ----🔓
Parental 5

◀▶▲▼/Enter/Setup/Return
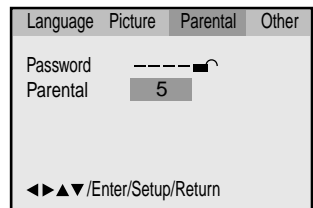
5 Press ▲ or ▼ to select Password, then press **number buttons (0-9)** to enter the password.
Note: You can change the password if you want.

Language	Picture	Parental	Other

Password 1 2 3 4🔓
Parental 5

0–9/Cancel
◀▶▲▼/Enter/Setup/Return
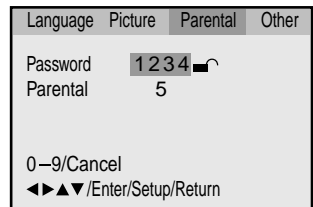
6 Press **ENTER**.
Now the parental level is changed and locked.

7 Press **DVD SETUP** or **RETURN** to remove the parental control screen.

Language	Picture	Parental	Other

Password ----🔒
Parental 5

0–9/Cancel
◀▶▲▼/Enter/Setup/Return

36
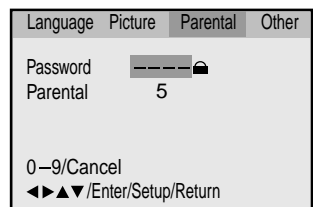
Temporary disabling of rating level by DVD disc

Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set. It is up to you to decide whether to cancel the rating level or not.

1 Load a DVD disc and press **PLAY** or **OPEN/CLOSE** on the unit (see P.27).
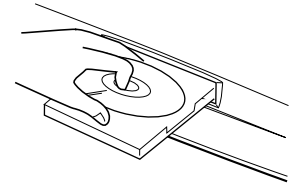
2 If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with the SELECT key, "Your disc exceeds The parental control level#." screen will then appear.

Reading

Your disc exceeds
The parental control level#.

Parental Control Level
Cancel Picture

▲▼/Enter/Return
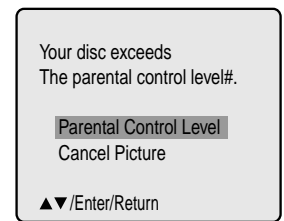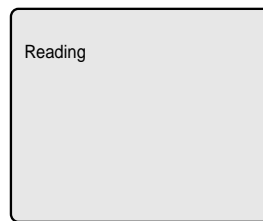
3 If you wish to cancel the set rating level temporarily, select "Parental Control Level" with ▲ or ▼, then press **SELECT**. If the 4-digit password at step 3 on P.35 has been set, the password entering screen will appear as shown in step 4 below.
Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "Cancel Picture".
The setting screen will disappear. Press **OPEN/CLOSE** to remove the disc.

4 Enter the password with **number buttons (0-9)**. Then press **ENTER**.
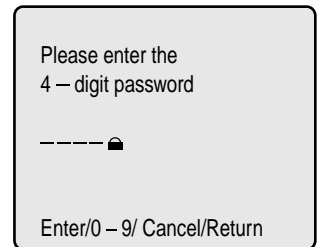
If you interrupt the entering, press **RETURN**.

Please enter the
4 – digit password

– – – – 🔒

Enter/0 – 9/ Cancel/Return

5 Playback will commence if the entered password was correct.

Note:
This temporary cancellation of rating level will be kept until the disc is ejected. When the disc is ejected, the original rating level will be set again automatically.

TV CATV

DVD CONTROL SUBTITLE POWER

TITLE ZOOM REPEATA-B RETURN

AUDIO PLAY MODE – SLOW +

ANGLE 1 2 3

CANCEL 4 5 6

DISPLAY 7 8 9

SLEEP TIMER C.C. 0 TV RETURN

INPUT AUDIO LIGHT

RM-C394G

MUTING SELECT /ENTER

+ CH

VOL – VOL +

CH –

TV MENU DVD SETUP

◄◄ PREV NEXT ►► TV/DVD DVD MENU

B.SEARCH PLAY F.SEARCH

▲OPEN/CLOSE ■STOP ❚❚PAUSE/STILL

JVC
TV / DVD

Setting the aspect ratio of TV screen

You can select the aspect ratio for your TV.
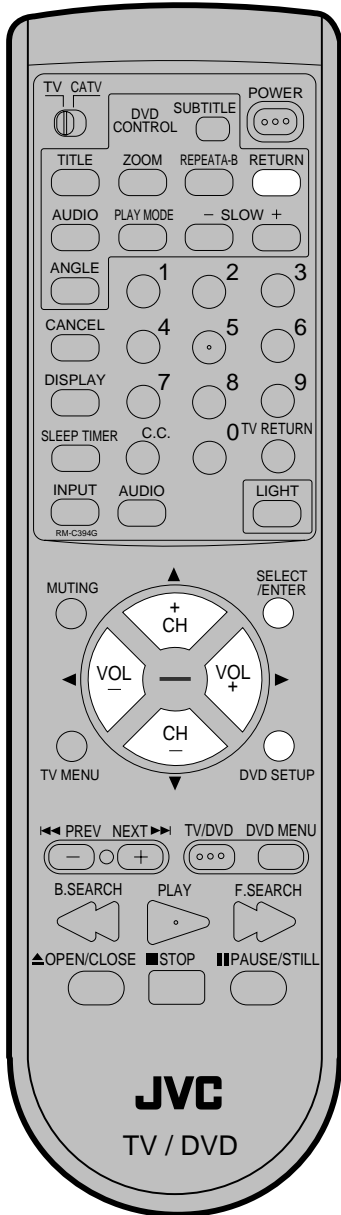
Note:
If the DVD disc is not formatted in the pan & scan style, it displays 4:3 style.

1 Press **DVD SETUP** in the stop mode or No Disc.

Press ◀ or ▶ to select Picture.

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return
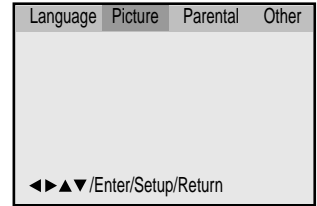
2 Press ▼ or **ENTER**, then press ▲ or ▼ to select Tv Screen.

Language	Picture	Parental	Other
Tv Screen	4:3 ▭		
Display	On		

◀▶▲▼/Enter/Setup/Return
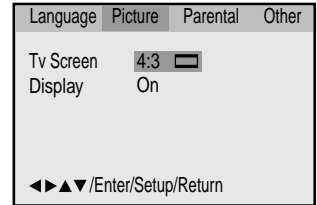
3 Press ▶ or **ENTER**.
Press ▲ or ▼ to select your desired screen type, then press **ENTER**.

Language	Picture	Parental	Other
Tv Screen	4:3 ▭	4:3 ▭	
Display	On	4:3 ▭	
		16:9 ▭	

◀▶▲▼/Enter/Setup/Return
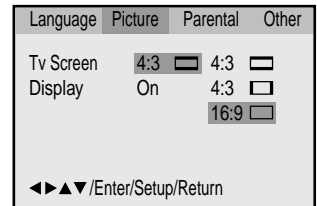
You have the following screen sizes to choose from:

4:3 ▭
Select this mode when connecting to a conventional TV. When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.

4:3 ▭ PAN SCAN
It displays the wide picture on the whole screen with left and right edges automatically cut off.

16:9 ▭ WIDE SCREEN
Select this mode when connecting to a wide-screen TV. A wide screen picture is displayed full size.

4 To make SETUP screen disappear, press **DVD SETUP** or **RETURN** while the SETUP screen is being displayed.

38

Setting on Screen display/Status display of Disc

On screen display can be switched on or off when you press the buttons.
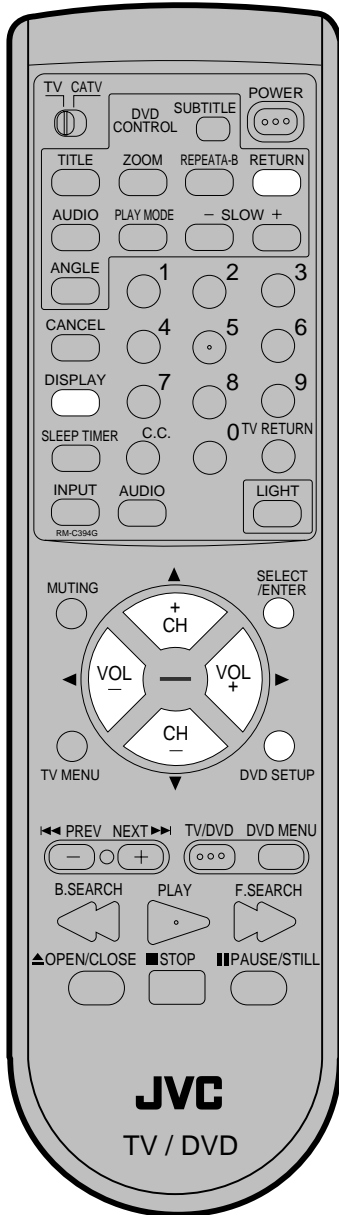
1 Press **DVD SETUP** in the stop mode or No Disc.

Press ◀ or ▶ to select Picture.

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return

2 Press ▼ or **ENTER**, then press ▲ or ▼ to select Display.

Language	Picture	Parental	Other

Tv Screen   4:3
Display   On
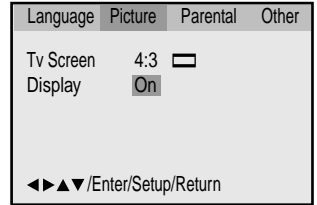
◀▶▲▼/Enter/Setup/Return

3 Press ◀/▶ or **ENTER** to select ON or OFF.

Language	Picture	Parental	Other

Tv Screen   4:3
Display   Off

◀▶▲▼/Enter/Setup/Return
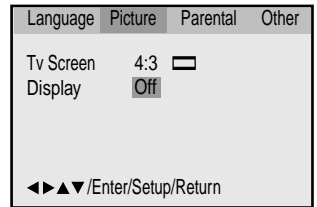
ON: On screen displays appear when you press the buttons (factory setting).

OFF: On screen displays do not appear when you press any buttons.

4 To make SETUP screen disappear, press **DVD SETUP** or **RETURN** while the SETUP screen is being displayed.

Status display of Disc

Each Press of **DISPLAY**, the status display of the disc will appear on the screen and change as follows.

DVD

00:34:56 01:12:33	→	► 00:34:56 01:12:33 Title 1/99 Chapter 1/999 📀 1/9 💬 1/8 Eng DolbyDigital 💬 1/32 Eng

CD

34:56 71:33	→	► 34:56 71:33 Track 11/99
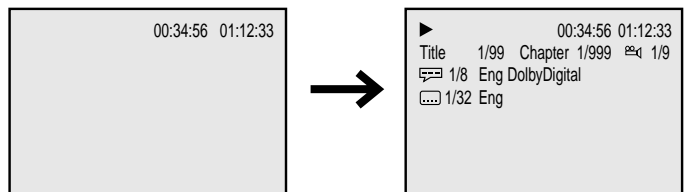
To make status display disappear, press **DISPLAY** again.

39

Setting menu language

You can select the language of the disc menu messages of DVDs.
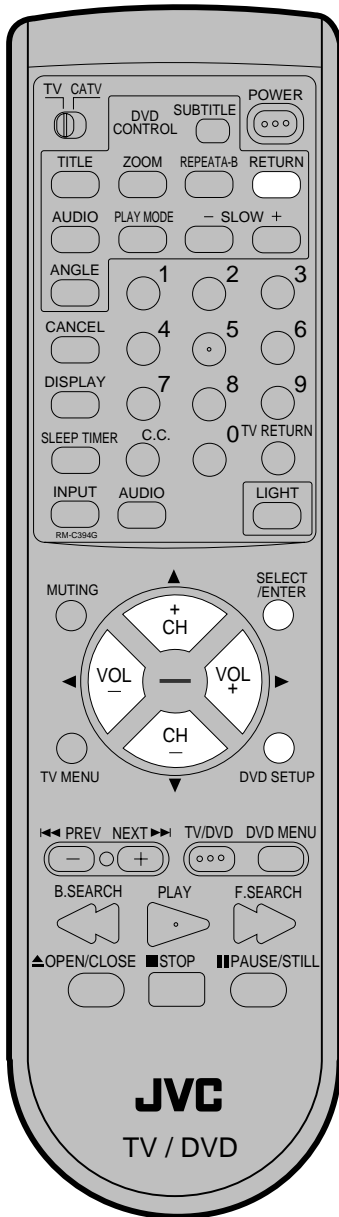
1 Press **DVD SETUP** in the stop mode or No Disc.
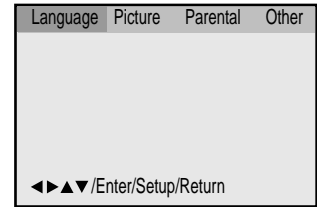
Press ◀ or ▶ to select Language.

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return

2 Press ▼ or **ENTER**, then press ▲ or ▼ to select Menu.

Language	Picture	Parental	Other
Menu	English		
Subtitle	English		
Audio	English		

◀▶▲▼/Enter/Setup/Return

3 Press ▶ or **ENTER**.
Press ▲ or ▼ to select your desired language, then press **ENTER**.

Language	Picture	Parental	Other
Menu	English	English
Subtitle	English	Francais
Audio	English	Espanol
		Other

0 –9/Cancel ____
◀▶▲▼/Enter/Setup/Return
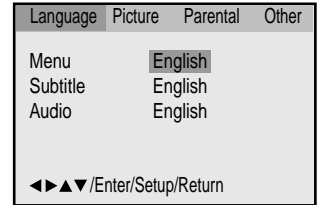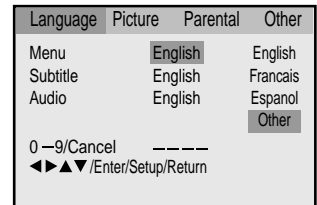
English, Francais, Espanol
The selected language is the first-priority Menu language.

OTHER: Other language can be selected (See the Language Code List on page 43).

4 To make SETUP screen disappear, press **DVD SETUP** or **RETURN** while the SETUP screen is being displayed.

Setting subtitle language

The same subtitle language can always be selected even if you replace the disc or turn the power off.
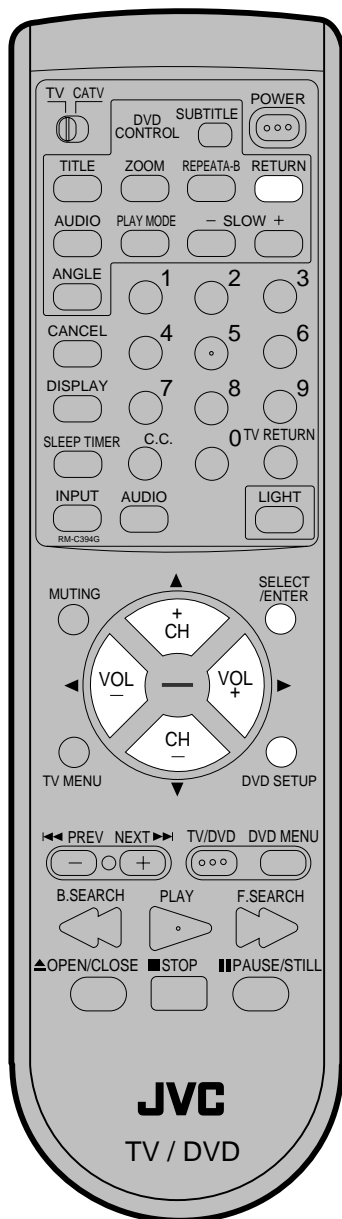
Note:

If the selected language is not recorded on the disc, the first-priority language is selected.

1 Press **DVD SETUP** in the stop mode or No Disc. Press ◀ or ▶ to select Language.

Language	Picture	Parental	Other

◀▶▲▼/Enter/Setup/Return
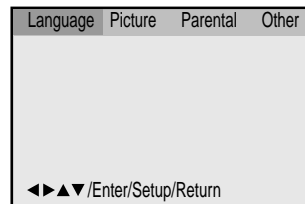
2 Press ▼ or **ENTER**, then press ▲ or ▼ to select Subtitle.
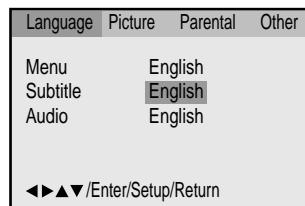
Language	Picture	Parental	Other
Menu	English		
Subtitle	English		
Audio	English		

◀▶▲▼/Enter/Setup/Return

3 Press ▶ or **ENTER**. Press ▲ or ▼ to select your desired language, then press **ENTER**.

Language	Picture	Parental	Other
Menu	English	English	
Subtitle	English	Francais	
Audio	English	Espanol	
		Other	
0 −9/Cancel	− − − −	Automatic	
◀▶▲▼ /Enter/Setup/Return		Off	
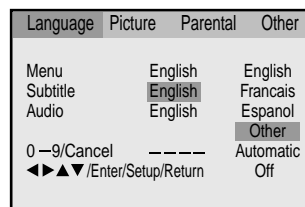
English, Francais, Espanol
The subtitle is displayed with the selected language if it is recorded on the disc.

OTHER:
If you want to select another language, enter the language code (see the language code list on page 43).

AUTOMATIC:
• The unit will automatically select the same language in the AUDIO setting.
• When the unit selects the same language as the AUDIO, the subtitles will not appear during playback.
• When you do not use the same language as the AUDIO, the subtitles will appear during playback.

Off:
Subtitles do not appear.

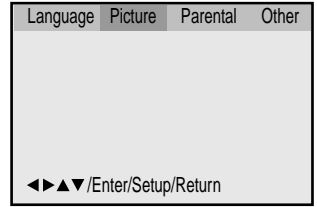4 To make SETUP screen disappear, press **DVD SETUP** or **RETURN** while the SETUP screen is being displayed.

Setting audio soundtrack language
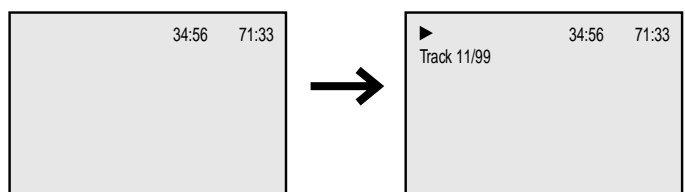
The same audio soundtrack language can always be selected by your unit even if you replace the disc or turn the power off.
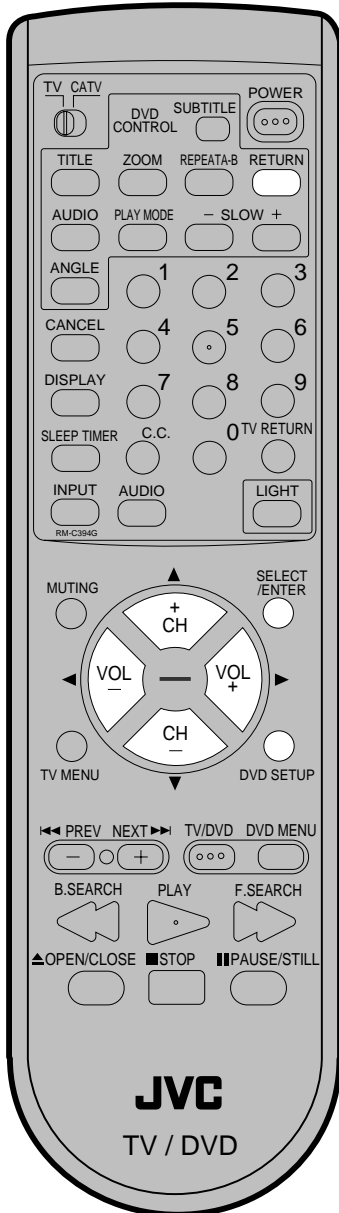
1 Press **DVD SETUP** in the stop mode or No Disc.
Press ◄ or ► to select Language.
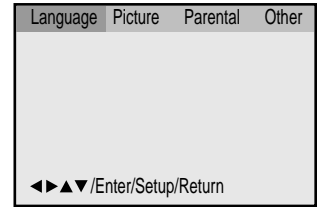
Language	Picture	Parental	Other

◄►▲▼/Enter/Setup/Return

2 Press ▼ or **ENTER**, then press ▲ or ▼ to select Audio.

Language	Picture	Parental	Other
Menu	English		
Subtitle	English		
Audio	English		

◄►▲▼/Enter/Setup/Return
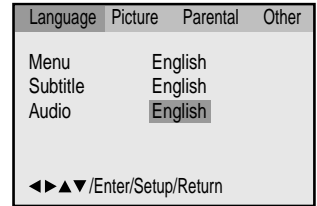
3 Press ► or **ENTER**.
Press ▲ or ▼ to select your desired Audio Language, then press **ENTER**.

Language	Picture	Parental	Other
Menu	English	English	
Subtitle	English	Francais	
Audio	English	Espanol	
		Other	
0 – 9/Cancel	– – – –	Original	

◄►▲▼/Enter/Setup/Return
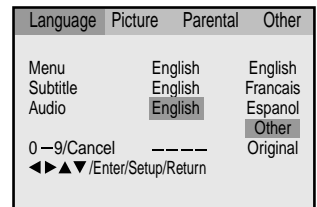
- **English, Francais, Espanol:**
  The language you have selected will play if it is recorded on the disc.
- **OTHER:** If you want to select another language, enter the language code (See the Language Code List on page 43).
- **ORIGINAL:** The unit will select the first priority language of each disc.

4 To make SETUP screen disappear, press **DVD SETUP** or **RETURN** while the SETUP screen is being displayed.

Note:
If the selected language is not recorded on the disc, the original language will be heard.

TV CATV
DVD CONTROL SUBTITLE POWER
TITLE ZOOM REPEATA-B RETURN
AUDIO PLAY MODE – SLOW +
ANGLE 1 2 3
CANCEL 4 5 6
DISPLAY 7 8 9
SLEEP TIMER C.C. 0 TV RETURN
INPUT AUDIO LIGHT
RM-C394G
MUTING SELECT/ENTER
+ CH
VOL – VOL +
CH –
TV MENU DVD SETUP
PREV NEXT TV/DVD DVD MENU
B.SEARCH PLAY F.SEARCH
OPEN/CLOSE STOP PAUSE/STILL
JVC
TV / DVD

Language Code List

Enter the appropriate code number for the initial settings "AUDIO", "SUBTITLE" and/or "MENU LANGUAGE" (see pages 40-42).

Language Name	Code	Language Name	Code	Language Name	Code	Language Name	Code
Abkhazian	1112	Fiji	1620	Lingala	2224	Singhalese	2919
Afar	1111	Finnish	1619	Lithuanian	2230	Slovak	2921
Afrikaans	1116	French	1628	Macedonian	2321	Slovenian	2922
Albanian	2927	Frisian	1635	Malagasy	2317	Somali	2925
Amharic	1123	Galician	1722	Malay	2329	Spanish	1529
Arabic	1128	Georgian	2111	Malayalam	2322	Sundanese	2931
Armenian	1835	German	1415	Maltese	2330	Swahili	2933
Assamese	1129	Greek	1522	Maori	2319	Swedish	2932
Aymara	1135	Greenlandic	2122	Marathi	2328	Tagalog	3022
Azerbaijani	1136	Guarani	1724	Moldavian	2325	Tajik	3017
Bashkir	1211	Gujarati	1731	Mongolian	2324	Tamil	3011
Basque	1531	Hausa	1811	Nauru	2411	Tatar	3030
Bengali; Bangla	1224	Hebrew	1933	Nepali	2415	Telugu	3015
Bhutani	1436	Hindi	1819	Norwegian	2425	Thai	3018
Bihari	1218	Hungarian	1831	Oriya	2528	Tibetan	1225
Breton	1228	Icelandic	1929	Panjabi	2611	Tigrinya	3019
Bulgarian	1217	Indonesian	1924	Pashto, Pushto	2629	Tonga	3025
Burmese	2335	Interlingua	1911	Persian	1611	Turkish	3028
Byelorussian	1215	Irish	1711	Polish	2622	Turkmen	3021
Cambodian	2123	Italian	1930	Portuguese	2630	Twi	3033
Catalan	1311	Japanese	2011	Quechua	2731	Ukrainian	3121
Chinese	3618	Javanese	2033	Rhaeto-Romance	2823	Urdu	3128
Corsican	1325	Kannada	2124	Romanian	2825	Uzbek	3136
Croatian	1828	Kashmiri	2129	Russian	2831	Vietnamese	3219
Czech	1329	Kazakh	2121	Samoan	2923	Volapük	3225
Danish	1411	Kirghiz	2135	Sanskrit	2911	Welsh	1335
Dutch	2422	Korean	2125	Scots Gaelic	1714	Wolof	3325
English	1524	Kurdish	2131	Serbian	2928	Xhosa	3418
Esperanto	1525	Laothian	2225	Serbo-Croatian	2918	Yiddish	2019
Estonian	1530	Latin	2211	Shona	2924	Yoruba	3525
Faroese	1625	Latvian, Lettish	2232	Sindhi	2914	Zulu	3631

Connections to other equipments

The exact arrangement you use to interconnect various video and audio components to the TV/DVD is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.

Using an Audio Amplifier

Rear of TV/DVD

Audio (L) Output
Audio (R) Output

To Audio (R) Input   To Audio (L) Input

AUDIO cord (not supplied)
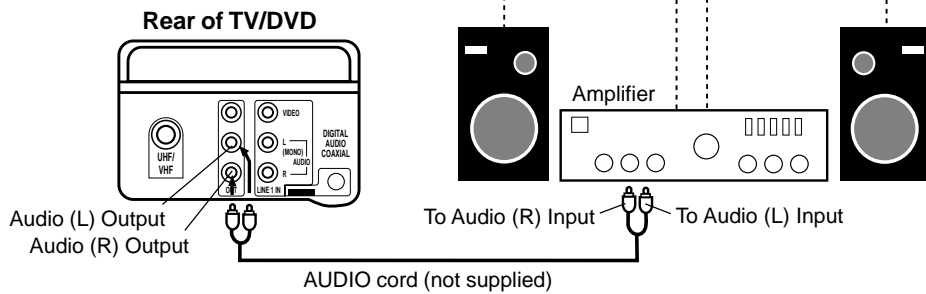
Using an AV Amplifier with built-in digital surround

If you are using an Amplifier with a built-in digital surround as follows, you can enjoy the various audio systems including Dolby Digital Surround audio that sounds just like the movie.

Connect an AV amplifier with built-in Dolby Digital decoder, DTS decoder, MPEG decoder or etc as shown below.

Rear of TV/DVD

Coaxial Digital Audio Output

Coaxial digital cable (not supplied)

To Coaxial Digital Audio Input

AV Amplifier with built-in digital surround decoder as listed above

Front Speaker (Left)

TV/DVD   Subwoofer

Front Speaker (Right)

Center Speaker

Surround Speaker (Left)

Surround Speaker (Right)
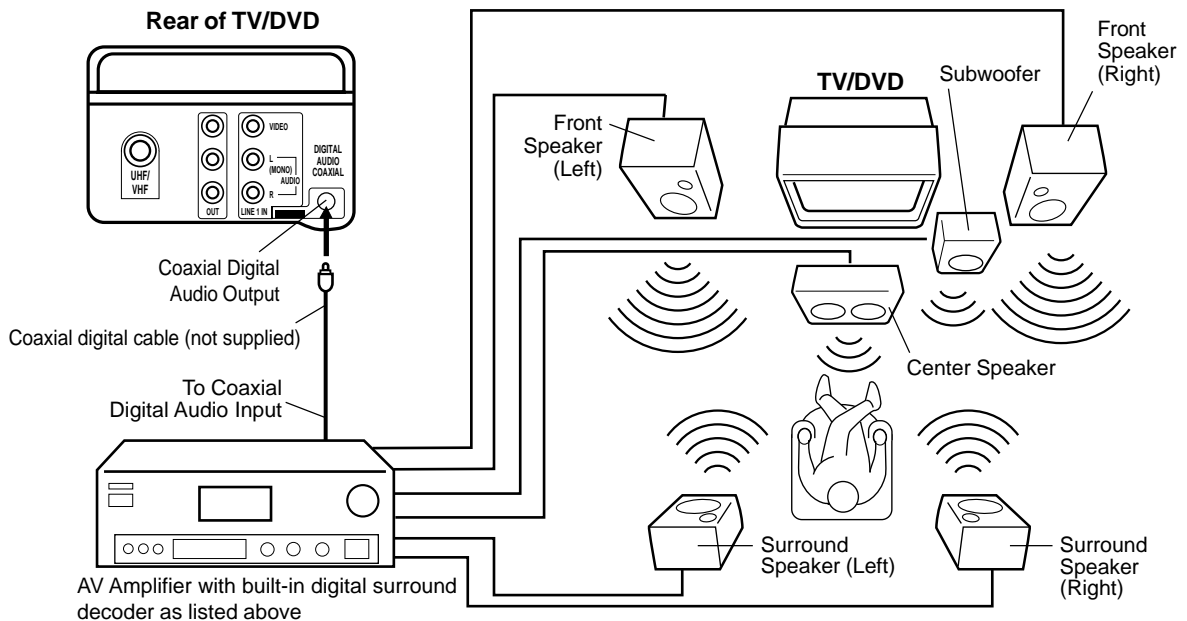
* Manufactured under license from Dolby Laboratories. "Dolby" and the double-D symbol are trademarks of Dolby Laboratories. Confidential unpublished works. © 1992-1997 Dolby Laboratories, Inc. All rights reserved.

* "DTS" and "DTS Digital Out" are trademarks of Digital Theater Systems, Inc.

NOTE:
• When you make the connections above, do not set DOLBY DIGITAL to DOLBY DIGITAL, MPEG to MPEG to ON on the AV Amplifier. If you do, a loud noise will suddenly come out from the speakers, affecting your ears or causing the speakers to be damaged.
• When playing DTS-encoded CDs, only noise will be heard from the speakers or analogue stereo outputs.
• Some DTS decoders which do not support DVD-DTS interface may not work properly with the unit.

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Using the audio/video inputs

If you connect the TV/DVD to VCR, camcorder or TV game, you can select by pressing **INPUT**.

Press **INPUT** repeatedly to select the desired mode.
"LINE1", "LINE2" or TV channel will display on the screen for 4 seconds.

NOTE:
In the DVD mode this key will not operate.

```
  ┌──→ TV Channel ──→ LINE 1 ──→ LINE 2 ──┐
  │                   (Back)     (Front)   │
  └────────────────────────────────────────┘
```

LINE 1
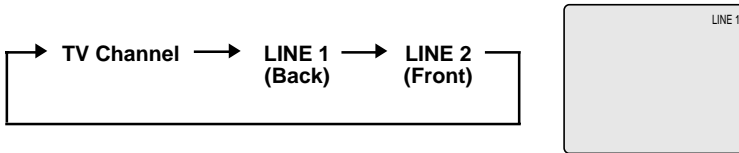
1. To connect the TV/DVD to a VCR

Press the **INPUT** to select the desired mode to use the TV as a monitor.
Operate your VCR as usual.

Rear of TV/DVD

VCR

VIDEO IN

To Audio/Video OUT

AUDIO IN (L)
AUDIO IN (R)
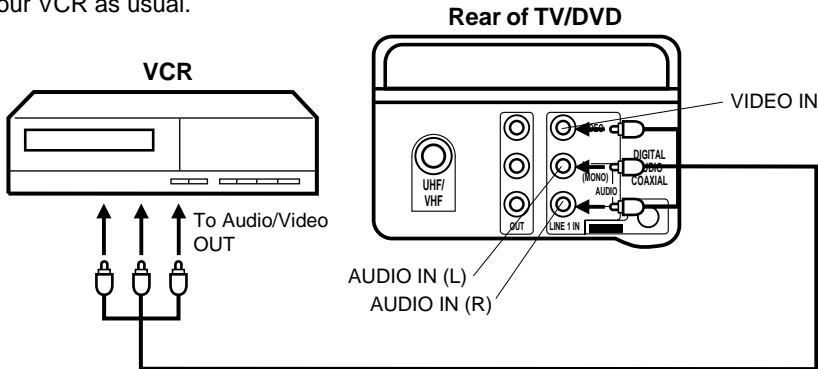
2. To connect the TV to a camcorder

To playback from the camcorder, connect the camcorder to the TV/DVD as shown.

Camcorder

Front of TV/DVD

VIDEO IN

To Audio/Video OUT

AUDIO IN (R)

AUDIO IN (L)

Audio/Video cord (not supplied)
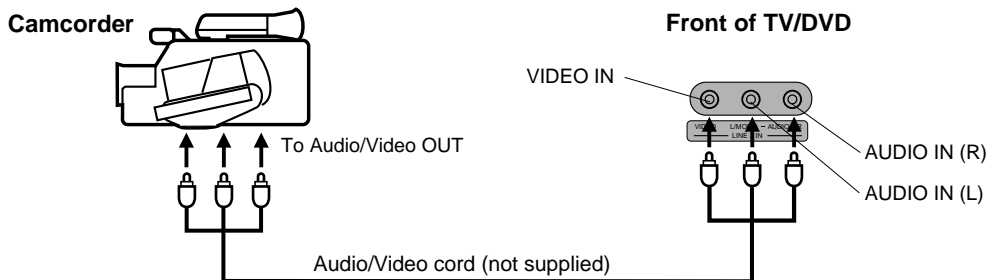
3. To connect the TV to a TV Game

Front of TV/DVD

TV GAME

VIDEO IN

To Audio/Video OUT

AUDIO IN (R)

AUDIO IN (L)

Audio/Video cord (not supplied)

45
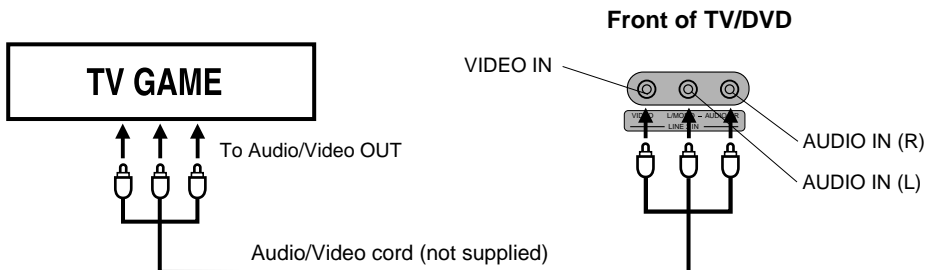
Problems and troubleshooting

Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist.
Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
POWER		
TV/DVD does not operate.	•Make sure the power cord is plugged in. •Try another AC outlet. •Power is off, check fuse or circuit breaker. •Unplug unit, then plug it back in.	5 10 5
TV BROADCAST RECEPTION		
Poor sound or No sound	•Station or CATV experiencing problems, tune to another station. •Check Volume adjustments (Volume and Muting). •Check for sources of possible interference.	14 14 48
Poor picture or No picture	•Station or CATV experiencing problems, tune to another station. •Check antenna or CATV connections, reorient antenna. •Check for sources of possible interference. •Check picture control adjustments.	14 11,12 48 22
Poor reception on some channels	•Station or CATV experiencing problems, tune to another station. •Station signal is weak, reorient antenna to receive weaker station. • Check for sources of possible interference.	14 11,12 48
Poor color or no color	•Station or CATV experiencing problems, tune to another station. •Make sure channels are set into memory. •Check picture control adjustments. •Check antenna or CATV connections, reorient antenna. •Check for sources of possible interference.	14 18 22 11,12 48
Picture wobbles or drifts	•Station or CATV experiencing problems, tune to another station. •Make sure channels are set into memory. •CATV company is scrambling signal. •Check antenna orientation.	14 18 – 11
No CATV reception	•Check all CATV connections. •Set TV/CATV menu option to the CATV mode. •Station or CATV system problems, try another station.	12 17 14
Horizontal or diagonal bars on screen	•Check antenna connections, reorient antenna. •Check for sources of possible interference.	11,12 48
No reception above channel 13	•Make sure TV/CATV menu option is in the appropriate mode. •If using antenna, check UHF antenna connections.	17 11
TV shuts off	•No broadcast on station tuned. •Sleep Timer is set. •Power interrupted.	18 15 –
Closed - Caption is not activated.	•TV station experiencing problems or program tuned is not closed captioned. Try another channel. •Check CATV connection or VHF/UHF antenna, reposition or rotate antenna. •Press C.C. button to turn on the closed caption decoder.	18 11,12 17
Display is not shown in your language.	•Select proper language in the menu options.	13

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SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD		
Playback doesn't start.	• No disc is inserted. • The disc may be dirty. Clean up the disc. • The unit cannot play CD-ROMs, etc.	27 25 –
No picture	• TV/AV selector is not set correctly.	26
No sound	• Check the input selector of the amplifier is set properly. • The unit is in the Special playback mode. • Select the correct Audio Output position on AV amplifier.	– 28 44
Picture is distorted during CUE or REVIEW.	• The picture will be distorted occasionally.	–
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	• Some discs may not do some of the functions.	–
No 4:3 (16:9) picture	• The setup does not match your TV.	38
No on-screen display	• Select Display On.	39
No surround sound	• The setup does not match your stereo system.	44
The unit or remote operation key is not functioning.	• Turn off the unit and unplug the AC power cord for several minutes, then replug it.	–
Playback does not start when the title is selected.	• Check the RATING LEVEL setup.	35,36
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	• Multilingual language is not recorded on the DVD disc.	41,42
No subtitle	• Some discs have no subtitles. • Subtitles are cleared. Press SUBTITLE.	41
Angle cannot be changed.	• Multi-angles are not recorded on the DVD disc.	34
♥ appears on the screen.	• The function is prohibited with the unit or the disc.	–
REMOTE CONTROL		–
The remote control does not function.	• Aim at the remote control at the remote sensor. • Operate within Approx. 5 Meters or reduce the light in the room. • Clear the path of the beam. • The batteries are weak. Replace the batteries. • Check the batteries are inserted correctly.	10

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Reception disturbances

Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results. The most common types of television interference are shown below. If one of these symptoms appear when the TV/DVD is connected to a Cable TV system, the disturbance may be caused by the local Cable TV company broadcast.

IGNITION

Black spots or horizontal streaks may appear, the picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps or AC powered tools and appliances such as drills or hair dryers.

GHOSTS

Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected by tall buildings, hills or other large objects. Changing the direction or position of the antenna may improve the reception.

SNOW

If the TV/VCR is located far from the TV station, in a fringe reception area where the signal is weak, small dots may appear in the picture. If the signal is extremely weak, the installation of a larger external antenna may be necessary.

RADIO FREQUENCY INTERFERENCE (RFI)

Caused by two-way radios, this type of interference produces moving ripples or diagonal streaks in the picture. Some cases may cause a loss of contrast in the picture. Changing the direction and position of the antenna or installing an RFI filter may improve the picture.
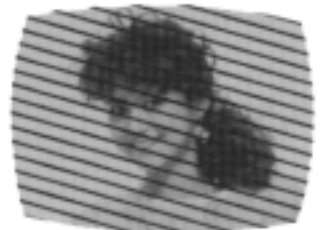
PICTURE SIZE VARIATION

A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS settings.

CARE AND MAINTENANCE

To prevent fire or shock hazard, disconnect the TV/DVD from the power source before cleaning.
The finish on the cabinet may be cleaned with mild soap and a soft, damp cloth and cared for as other furniture.
Use caution when cleaning or wiping the plastic parts.

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GENERAL

Power supply:	AC 120V 60Hz
Power consumption:	Operation: 120W
	Stand by: 8W
Weight:	56.1lbs (25.5 kg)
Dimensions:	Width : 22-5/8 inches (574 mm)
	Height : 20-3/8 inches (515 mm)
	Depth : 19-1/8 inches (483 mm)

TELEVISION

Picture tube:	Type 20 (508 mm diagonal)	
Tuner type:	Quartz PLL Frequency Synthesized	
Receiving channels:	VHF	2-13
	UHF	14-69
	CATV	14-36 (A)-(W)
		37-59 (AA)-(WW)
		60-85 (AAA)-(ZZZ)
		86-94 (86)-(94)
		95-99 (A-5)-(A-1)
		100-125 (100)-(125)
		01 (5A)
Antenna input:	VHF/UHF In 75 ohm coaxial	
Speaker:	3" (76 mm), 8 ohm x 2	
Audio output power:	2.5W + 2.5W	

DVD/CD player

Signal system:	NTSC
Applicable disc:	1. DVD (12cm, 8cm)
	2. CD (12cm, 8cm)
Audio characteristics:	DVD: 4Hz - 22KHz
Frequency response:	CD: 4Hz - 20KHz
S/N Ratio:	90dB
Harmonic distortion:	0.01%
Wow and flutter:	Below Measurable Level
Dynamic range:	96dB
Input/Output:	Inputs : Video : (RCA) 1 Vp-p/75ohm
	Audio : (RCA) –8 dB/50Kohm
	Outputs : Video : (RCA) 1 Vp-p/75ohm
	Audio : (RCA) –8 dB/1Kohm
Headphone Jack:	3.5mm Stereo mini-jack
Digital audio out:	0.5Vp-p 75ohms terminated
Pickup:	CD : Wavelength: 775 - 815 nm
	Maximum output power: 0.5 mW
	DVD : Wavelength: 650 - 666 nm
	Maximum output power: 2.0 mW
ACCESSORIES:	Remote control x 1
	Batteries (2 x AA)

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Appendix (Remote programming)

REMOTE PROGRAMMING

Setting the CATV Codes

You can program your remote to operate your cable box, satellite receiver by using the instructions and codes listed below. If the equipment does not respond to any of the codes listed below or to the code search function, use the remote control supplied by the manufacturer.

Cable Box or Satellite setup

The remote control is programmed with CATV and/or Satellite codes for power on, power off, channel up, channel down, and 10 key operation.

1) Find the CATV/Satellite brand from the list of codes shown below.
2) Slide the 2-way selector switch to "CATV ".
3) Press and hold down the DISPLAY button.
4) With the DISPLAY button held down, enter the first code number listed using the 10 key pad.
5) Release the DISPLAY button.
6) Confirm the operation of the Cable Box/Satellite receiver.
• If your CATV or Satellite box does not respond to the first code, try the others listed. If it does not respond to any code, try the Search Codes Function as shown below.

Cable Box	CODES	Cable Box	CODES
ABC	024	Pulsar	051, 032
Archer	032, 025	Puser	032
Cableview	051, 032	RCA	061, 070
Citizen	022, 051	Realistic	032
Curtis	058, 059	Regal	058, 064, 040, 041, 042, 045, 068
Diamond	024, 032, 025	Regency	034
Eagle	029	Rembrandt	037, 032, 051, 038
Eastern	034	Samsung	051
GC Brand	032, 051	Scientific Atlanta	057, 058, 059
Gemini	022, 043	SLMark	051, 047
General Instrument	065, 024, 025, 026, 027, 020, 021, 022, 057, 023	Sprucer	051, 056
Hamlin	040, 041, 042, 045, 058, 064	Stargate	032, 051
Hitachi	049, 024	Telecaption	067
Jerrold	065, 024, 025, 026, 027, 020,021, 022, 057, 023	Teleview	047, 051
Macom	049, 050, 051, 054	Texscan	044
Magnavox	033	Tocom	035, 036, 066
Memorex	030	Toshiba	050
Movietime	032, 051	Unika	032, 025
Oak	039, 037, 048	Universal	022, 032
Panasonic	055, 056, 060, 071	Videoway	052
Paragon	063	Viewstar	029, 030
Philips	028, 029, 030, 052, 053, 031, 069	Zenith	063, 046
Pioneer	047, 062	Zenith/Drake Satellite	046

Digital Satellite Systems	CODES	Digital Satellite Systems	CODES
Echostar	100, 113, 114	Philips	102, 103
Express VU	100, 113	Primestar	108
G.E.	106	Proscan	106, 109, 110
G.I.	108	RCA	106, 109, 110
Gradiente	112	Sony	107
Hitachi	104, 111	Star Choice	104, 108
HNS (Hughes)	104	Toshiba	101
Pranasonic	105	Uniden	102, 103

Cable/Satellite Search Codes Function:

1) Slide the 2-Way Mode Selector switch to CATV.
2) Press the TV POWER and TV RETURN buttons. Hold for at least three seconds and release.
3) Press TV POWER, see if the CATV or Satellite box responds.
4) If there was a response, press TV RETURN. The operating codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 52 times without a response, use the remote control which came with the equipment.
5) Press TV RETURN to exit.

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