

IMPORTANT SAFEGUARDS



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

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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
- **CAUTION:** Changes or modifications not expressly approved by the party responsible for compliance with the FCC (Federal Communications Commission) Rules could void the user's authority to operate this equipment.
- **COPYRIGHT:** It is permissible to record television programs, films, video tapes and other material only in the event that third party copyrights and other rights are not violated.

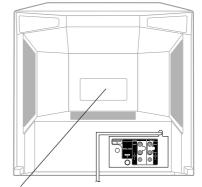
CAUTION:

THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LO-CATION-SEE SERVICE PROCEDURE.

USE OF CONTROLS, ADJUSTMENTS OR THE PERFORM-ANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPO-SURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIA-TION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO BEAM. **Location of the required Marking** The rating sheet and the safety caution are on the rear of the unit.



CERTIFICATION: COMPLIES WITH FDA RADIATION PERFORMANCE STANDARDS, 21 CFR SUBCHAPTER J.

5L00301C [E]p02-05

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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.

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.

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 installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.

10. POWER SOURCE

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 respective pages on this Owner's Manual for their 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. Instead of the polarized alternating-current line plug, your unit may be 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.

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.



(symbol provided by RETAC)

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IMPORTANT SAFEGUARDS

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 onto or against 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 (NEC), 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.

For example:

- a. When the power-supply cord or plug is damaged.
- If liquid has been spilled, or objects have fallen into the unit. b.
- If the unit has been exposed to rain or water. c.
- 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.
- If the unit has been dropped or the cabinet has been damaged. e.
- When the unit exhibits a distinct change in performance, this indicates a need for service. f.

19. 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.

20. 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.

21. HEAT

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

22. DISC TRAY

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

23. 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.

24. 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.

25. SOUND DISTORTION

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Do not allow the product output distorted sound for a longtime. It may cause speaker overheating and fire. 26. 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.

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27. 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.

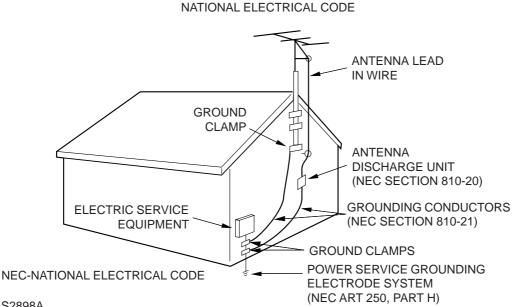
28. DISC

Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

29. NOTE TO CABLE TV SYSTEM INSTALLER

This reminder is provided to call the Cable TV 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

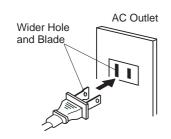


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IMPORTANT RECYCLING INFORMATION

This product uses both Cathode Ray Tube (CRT) and other components that contain lead. In your community there might be regulations that require you to dispose these materials properly under environmental considerations. Please contact your local authorities, or the Electronic Industries Alliance (http://www.eiae.org) for disposal or recycling information.

Power source



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.

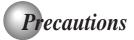
Notes:

- 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.
- If the AC cord plug is plugged in for the first time, wait for approx. 5 seconds before pressing the POWER button.

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Introduction



Notes on handling

- When shipping the unit, the original shipping carton and packing materials come in handy. For maximum protection, repack the unit as it was originally packed at the factory.
- Do not use volatile liquids, such as insect spray, near the unit. Do not leave rubber or plastic products in contact with the unit for a long time. They will leave marks on the finish.
- The top and rear panels of the unit may become warm after a long period of use. This is not a malfunction.
- When the unit is not in use, be sure to remove the disc and the video cassette turn off the power.
- If you do not use the unit for a long period, the unit may not function properly in the future. Turn on and use the unit occasionally.

Notes on locating

- Place the unit on a level surface. Do not use it on a shaky or unstable surface such as a wobbling table or inclined stand. The loaded disc or the video tape may come off the proper position and cause damage to the unit.
- When you place this unit near a TV, radio, or VCR, the playback picture may become poor and the sound may be distorted. In this case, place the unit away from the TV, radio, or VCR.

Notes on cleaning

Use a soft, dry cloth for cleaning.

 For stubborn dirt, soak the cloth in a weak detergent solution, wring well and wipe. Use a dry cloth to wipe it dry.

Do not use any type of solvent, such as thinner and benzine, as they may damage the surface of the unit.

 If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

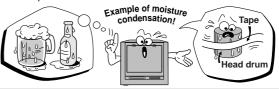
To obtain a clear picture

The unit is a high technology, precision device. If the video head, the head drum, the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality becomes poor. To obtain a clear picture, we recommend regular inspection and maintenance (cleaning or parts replacement) every 1,000 hours of use depending on the operating environment. For details, contact your nearest dealer.

Notes on moisture condensation

Moisture condensation damages the unit. Please read the following carefully.

Moisture condensation occurs, for example, when you pour a cold drink into a glass on a warm day. Drops of water form on the outside of the glass. In the same way, moisture may condense on the head drum or the optical pick-up lens inside this unit, one of the most crucial internal parts of the unit.



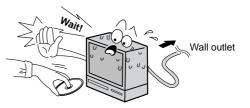
Moisture condensation occurs during the following cases.

- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you use the unit in a hot and humid place just after you move the unit from an air conditioned room.
- When you use the unit in a humid place.

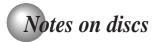


Do not use the unit when moisture condensation may occur.

If you use the unit in such a situation, it may damage discs and internal parts. Remove the disc or the video tape, connect the power cord of the unit to the wall outlet, turn on the unit, and leave it for two or three hours. After two or three hours, the unit will have warmed up and evaporated any moisture. Keep the unit connected to the wall outlet and moisture condensation will seldom occur.

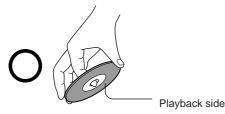


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On handling discs

Do not touch the playback side of the disc.



Do not attach paper or tape to discs.



On cleaning discs

 Fingerprints and dust on the disc cause picture and sound deterioration. Wipe the disc from the center outwards with a soft cloth. Always keep the disc clean.



- If you cannot wipe off the dust with a soft cloth, wipe the disc lightly with a slightly moistened soft cloth and finish with a dry cloth.
- Do not use any type of solvent such as thinner, benzine, commercially available cleaners or antistatic spray for vinyl LPs. It may damage the disc.

On storing discs

- Do not store discs in a place subject to direct sunlight or near heat sources.
- Do not store discs in places subject to moisture and dust such as a bathroom or near a humidifier.
- Store discs vertically in a case. Stacking or placing objects on discs outside of their case may cause warping.

Structure of disc contents

Normally, DVD video discs are divided into titles, and the titles are sub-divided into chapters. Video CDs and Audio CDs are divided into tracks.

DVD video disc

DVD video disc				
← Title 1 →	←			
Chapter 1 Chapter 2	Chapter 1 Chapter 2 Chapter 3			

Video CD/Audio CD

•	Vide	o CD/Audic	CD ——	
Track 1	Track 2	Track 3	Track 4	Track 5
אם \sim	ע ו ו∖~	\sim [111	\sim r ${\tt urr}$	\sim LII \sim

Each title, chapter or track is assigned a number, which is called "title number", "chapter number" or "track number" respectively.

There may be discs that do not have these numbers.

Notes on copyright

It is forbidden by law to copy, broadcast, show, broadcast on cable, play in public, and rent copyrighted material without permission.

This device does not tape-record copy protected DVD Video Discs.

The device is not to be used for copying copyrighted content without the express written permission of the copyright owner.

Obtaining such permission is the sole responsibility of the user.

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited. Introduction



About this owner's manual

This owner's manual explains the basic instructions of this unit. Some DVD video discs are produced in a manner that allows specific or limited operation during playback. As such, the unit may not respond to all operating commands. This is not a defect in the unit. Refer to instruction notes of discs.

"♥" may appear on the TV screen during operation. A "♥" means that the operation is not permitted by the unit or the disc.

For example, sometimes it is unable to stop the playback of copyright message of the disc when the STOP (■) button is pressed. Alternatively, the "\" may also indicate that the feature is not available for the disc.

Notes on region numbers

The region number of this unit is 1. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find (f) or (f), disc playback will not be allowed by the player. (In this case, the unit will display a message on-screen.)

On Video CDs

This DVD supports Video CDs equipped with the PBC (Version 2.0) function. (PBC is the abbreviation of Playback Control.) You can enjoy two playback variations depending on types of discs.

• Video CD not equipped with PBC function (Version 1.1)

Sound and movie can be played on this DVD in the same way as an audio CD.

• Video CD equipped with PBC function (Version 2.0)

In addition to operation of a Video CD not equipped with the PBC function, you can enjoy playback of interactive software with search function by using the menu displayed on the TV screen (Menu Playback). Some of the functions described in this owner's manual may not work with some discs.

Playable discs

This unit can play the following discs.

	Disc Mark	Contents	Disc Size	Maximum playback time
		Audio + Video (moving pictures) 8 cm	10	Approx. 4 hours (single sided disc)
DVD	VIDEO		Approx. 8 hours (double sided disc)	
video discs			8 cm	Approx. 80 minutes (single sided disc)
	ιn.		o cm	Approx. 160 minutes (double sided disc)
Video		Audio	12 cm Approx. 74 minu	Approx. 74 minutes
		Video (moving pictures) 8 cm Approx. 20 m	Approx. 20 minutes	
Audio CDs		12 cm	Approx. 74 minutes	
	Audio	8 cm (CD single)	Approx. 20 minutes	

The following discs are also available.

• CD-R/CD-RW discs of CD-DA or Video CD format Some of these discs may be incompatible.

- You cannot play discs other than those listed above.
- You cannot play discs of DVD-RAM, DVD-ROM, Photo CD, etc., or non standardized discs even if they may be labeled as above.
- Some CD-R/RWs can not be played back depending on the recording conditions.
- This unit uses the NTSC color system, and cannot play DVD video discs recorded in any other color system (PAL, SECAM, etc.).

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Function setup (DVD)

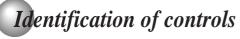
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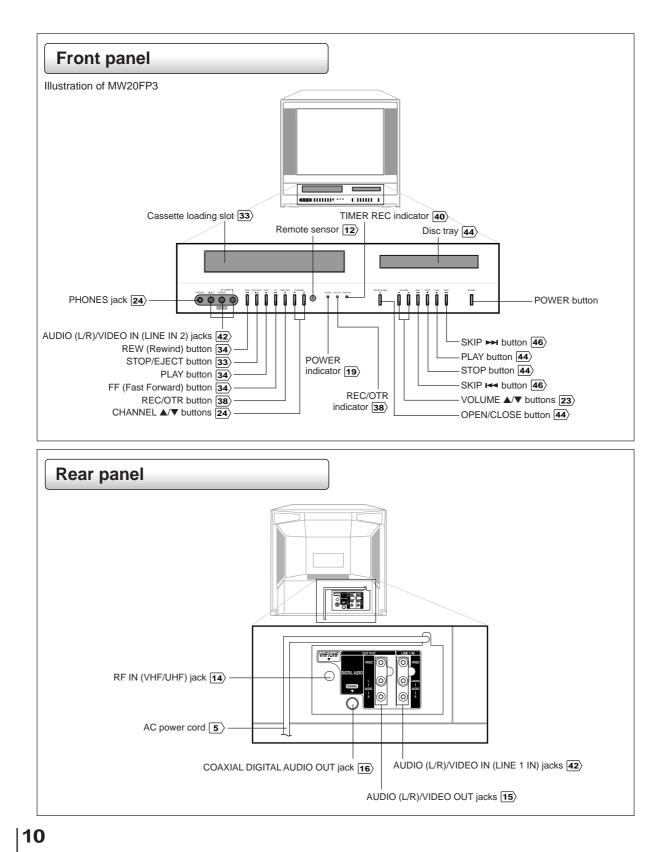
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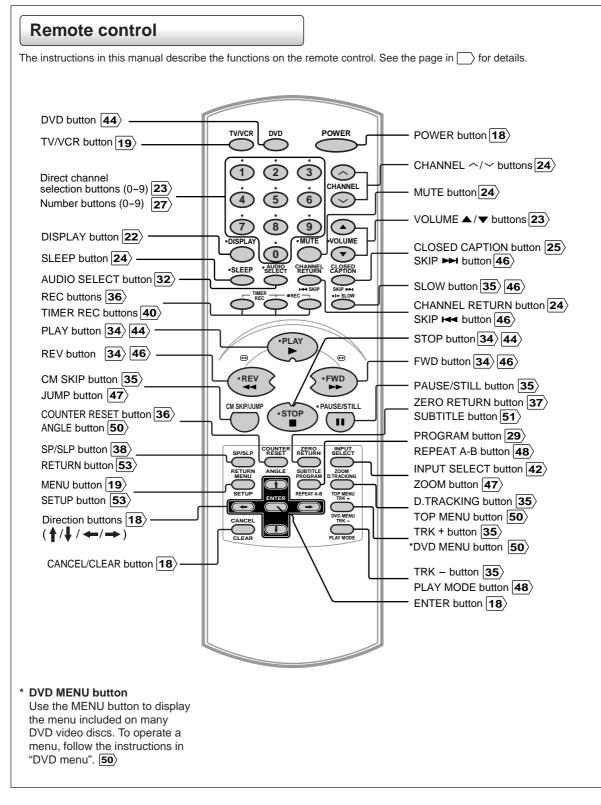
Introduction



See the page in \bigcirc for details.



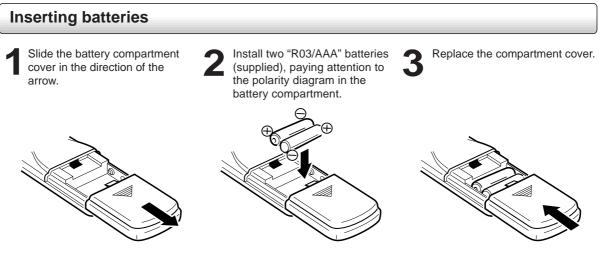
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Introduction





Battery precautions:

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

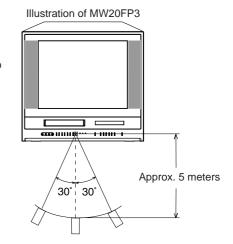
- 1. Use only the size and type of batteries specified.
- 2. Be sure to follow the correct polarity when installing the batteries as indicated in the battery compartment. Reversed batteries may cause damage to the device. To avoid a potential short circuit, insert the "--" end first.
- 3. Do not mix 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.)

Remote control basics

- Press **POWER** to turn the unit on or off.
- Select your desired operating mode (TV/VCR or DVD) using TV/VCR or DVD.
- Tap CHANNEL ^ or V to move through the channels one channel at a time.
- The Direction buttons (↑/↓/←/→) are also used to navigate on-screen menu system.
- You can directly access specific channels using Direct channel selection buttons.

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.



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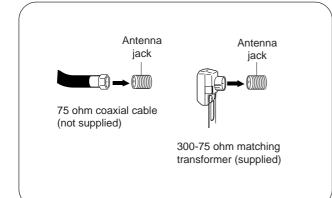
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Connections

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 (CABLE), see page 14 for Cable TV connections.

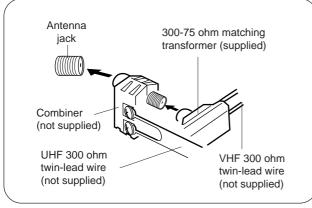
Combination VHF/UHF antenna (Single 75 ohm cable or 300 ohm twin-lead wire)



Connect the 75 ohm cable from the combination VHF/UHF antenna to the antenna jack.

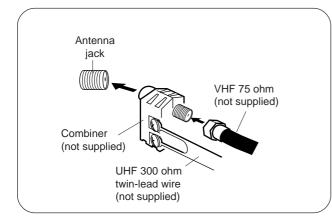
If your combination VHF/UHF antenna has a 300 ohm twin-lead wire, the use of the 300-75 ohm matching transformer may be necessary.

Combination VHF/UHF antenna (Separate VHF and UHF 300 ohm twin-lead wires)



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)



Connect the VHF 75 ohm cable and UHF 300 ohm twin-lead wire to the combiner (not supplied). Attach the combiner to the antenna jack.

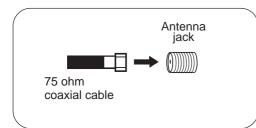
Connections

Connections

Cable TV connections

This unit 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.

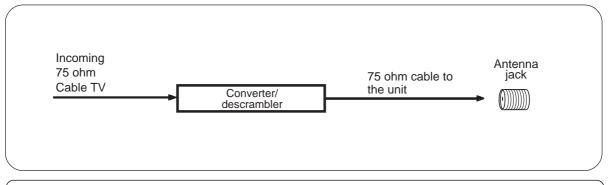
For subscribers to basic cable TV service



For basic cable service not requiring a converter/descrambler box, connect the Cable TV 75 ohm coaxial cable directly to the Antenna jack on the back of the unit.

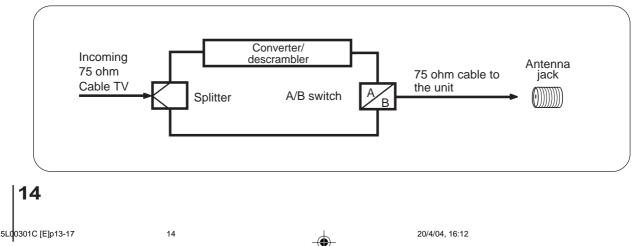
For subscribers to scrambled cable TV service

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 unit. Follow the connections shown below. Set the unit 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 unit. With the switch in the "A" position, tune your unit to the output of the converter/descrambler box (usually channel 3 or 4) and use the converter/descrambler box to tune scrambled channels.





Before connecting the unit to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections. You can enjoy the TV game, camcorder or high quality dynamic sounds of DVD video discs or audio CDs by connecting the unit to optional audio equipment.

Using the audio/video inputs

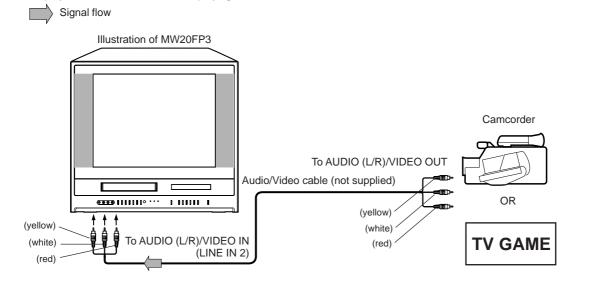
Press **INPUT SELECT** repeatedly to select the desired mode. "LINE1", "LINE2" or TV channel will display on the screen for 4 seconds.

→ TV Channel → LINE1 → LINE2 - (Back) (Front)	
--	--

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

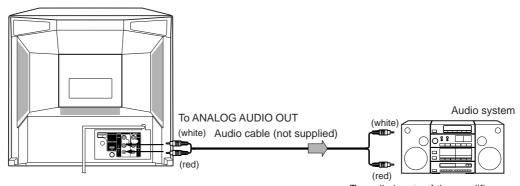
Connecting a camcorder or a TV game

To playback from the camcorder or playing a TV Game, connect the camcorder to the unit as shown.



Connecting to an audio system

Connect the unit to your audio system.



To audio inputs of the amplifier

20/4/04, 16:12

15

INPUT SELECT

Connections

---**-**

LINE 1

Connecting to optional equipment (Continued)

You can enjoy high quality dynamic sounds by connecting the unit to optional audio equipment.

- This section uses the following reference mark.
- Front speaker
 : Rear speaker
 : Sub woofer

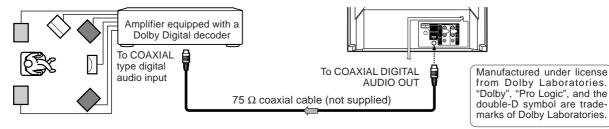
I Center speaker
 ⇒ : Signal flow

Connecting to an amplifier equipped with a Dolby Digital decoder

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Dolby Digital

Dolby Digital is the surround sound technology used in theaters showing the latest movies, and is now available to reproduce this realistic effect in the home. You can enjoy motion picture and live concert DVD video discs with this dynamic realistic sound by connecting the unit to a 6 channel amplifier equipped with a Dolby Digital decoder or Dolby Digital processor. If you have a Dolby Surround Pro Logic decoder, you will obtain the full benefit of Pro Logic from the same DVD movies that provide full 5.1-channel Dolby Digital soundtracks, as well as from titles with the Dolby Surround mark.



Connecting to an amplifier equipped with Dolby Surround Pro Logic

Dolby Surround Pro Logic

You can enjoy the dynamic realistic sound of Dolby Surround Pro Logic by connecting an amplifier and speaker system (right and left front speakers, a center speaker, and one or two rear speakers).

- With an amplifier equipped with Dolby Digital Connect the equipment the same way as described in "Connecting to an amplifier equipped with a Dolby Digital decoder." Refer to that amplifier's owner's manual and set the amplifier so you can enjoy Dolby Surround Pro Logic sound.
- With an amplifier not equipped with Dolby Digital Connect the equipment as follows.

16

This connection is only suitable for Video CDs and Audio CDs.

Amplifier equipped with Dolby Surround Pro Logic To audio input Audio cable (not supplied)

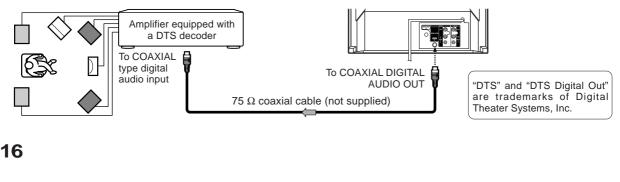
*Connect one or two rear speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.

Connecting to an amplifier equipped with a DTS decoder

Digital Theater Systems (DTS)

5L00301C [E]p13-17

DTS is a high quality surround technology used in theaters and now available for home use, on DVD video discs or audio CDs. If you have a DTS decoder or processor, you can obtain the full benefit of 5.1 channel DTS encoded sound tracks on DVD video discs or audio CDs.

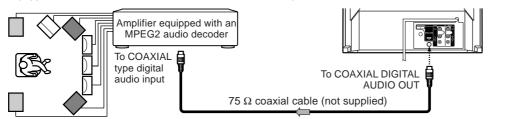


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Connecting to an amplifier equipped with a MPEG audio decoder

MPEG2 sound

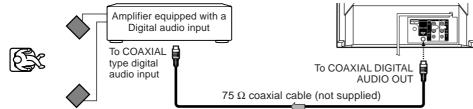
You can enjoy motion picture and live concert DVD video discs with dynamic realistic sound by connecting an amplifier equipped with an MPEG2 audio decoder or MPEG2 audio processor.



Connecting to an amplifier equipped with a digital audio input

2 channel digital stereo

You can enjoy the dynamic sound of 2 channel digital stereo by connecting an amplifier equipped with a digital audio input and speaker system (right and left front speakers).

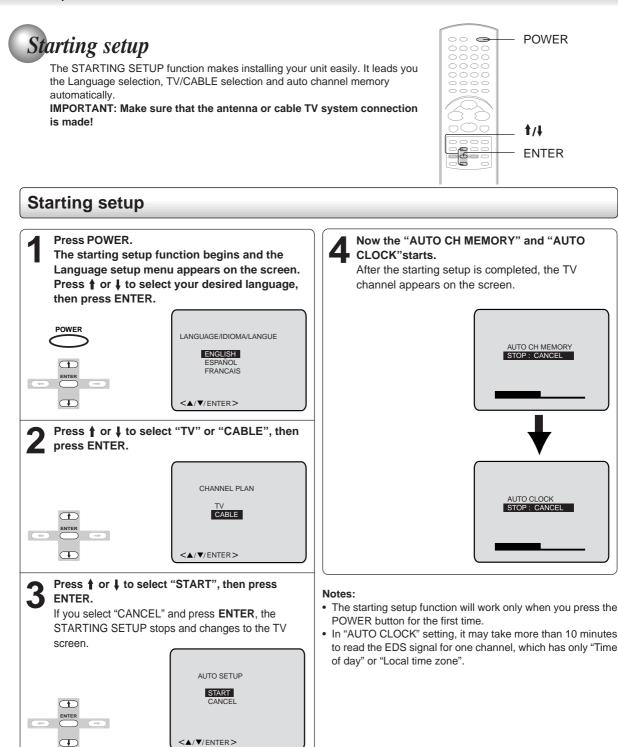


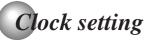
Notes:

- DO NOT connect the COAXIAL DIGITAL AUDIO OUT jack of the unit to the AC-3 RF input of a Dolby Digital Receiver. This input on your A/V Receiver is reserved for Laserdisc use only and is incompatible with the COAXIAL DIGITAL AUDIO OUT jack of the unit.
- Connect the COAXIAL DIGITAL AUDIO OUT jack of the unit to the "COAXIAL" input of a Receiver or Processor.
- Refer to the owner's manual of the connected equipment as well.
- When you connect the unit to other equipment, be sure to turn off the power and unplug all of the equipment from the wall outlet before making any connections.
- The output sound of the unit has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the unit's power cord. If you leave the amplifier power on, the speakers may be damaged.

Connections

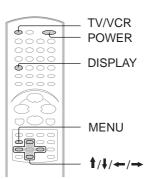
Basic setup

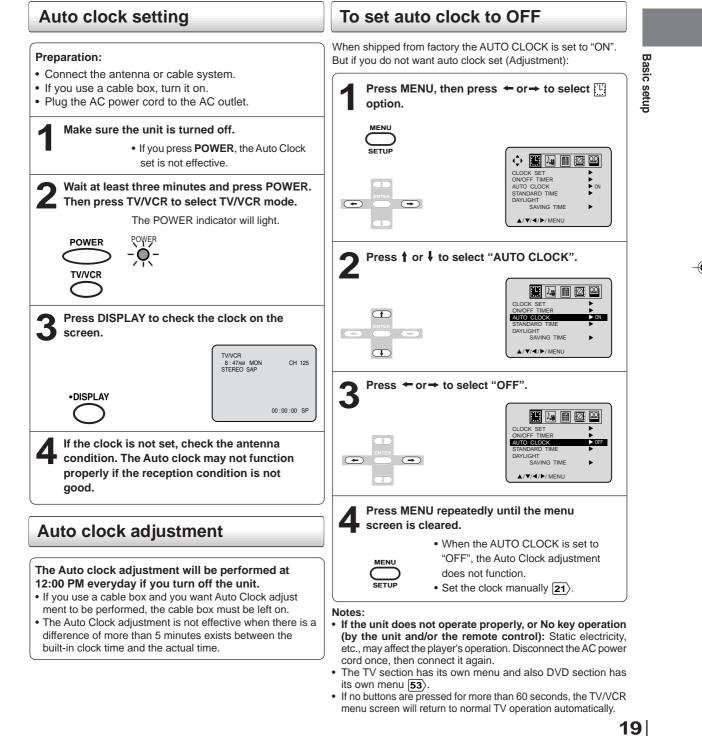




The auto clock function will automatically set the built-in clock (Month, Day, Year and Time) when the unit is connected to an antenna or cable system and it is turned off. As the unit searches for a receivable station in your area and it receives a broadcast signal for auto clock, the auto clock needs several minutes to set itself.

(





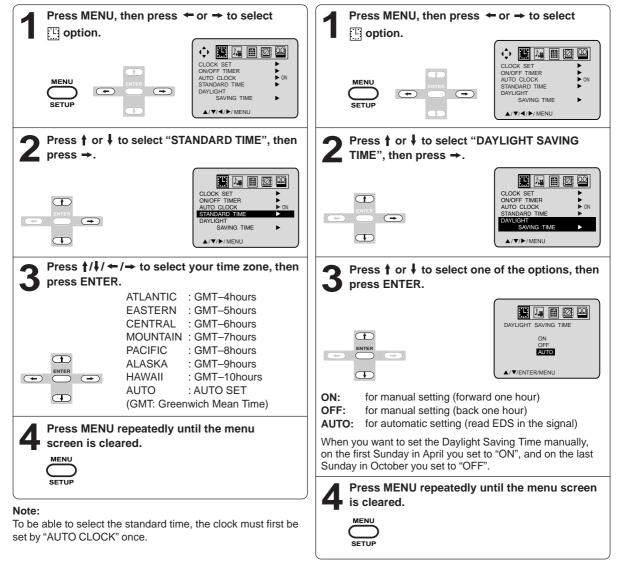


To set standard time

To set daylight saving time

In the rare event that you live within broadcast range of two You can set the Daylight saving time automatically or stations in two different time zones, the unit may recognize manually. the wrong station for the auto clock set.

To correct the situation:



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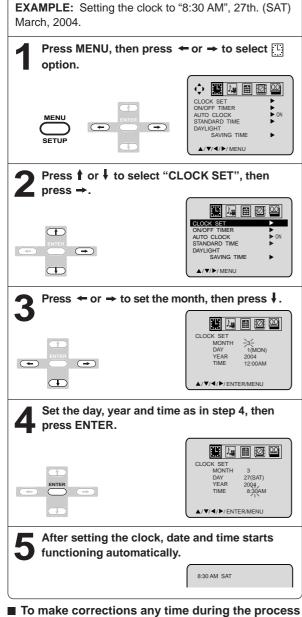
Notes:

- When shipped from factory, the DAYLIGHT SAVING TIME is set to "AUTO" position.
- When the clock is not set, Daylight Saving Time setting is not available.
- When there is no Daylight Saving Time in your area, always select "OFF" position in step 3.

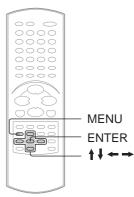
20

Manual clock setting

You must set the date and time manually for timer recordings, ON/OFF timer and daylight saving time if the auto clock process did not set them correctly.



■ To make corrections any time during the proces Press ↑ or ↓ repeatedly until the item you want to change blinks, then set the item again.

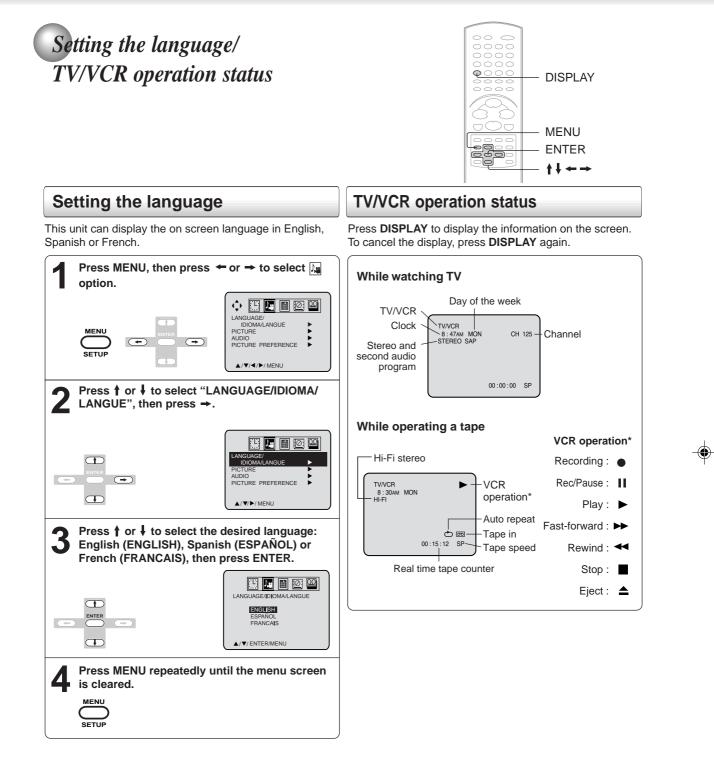


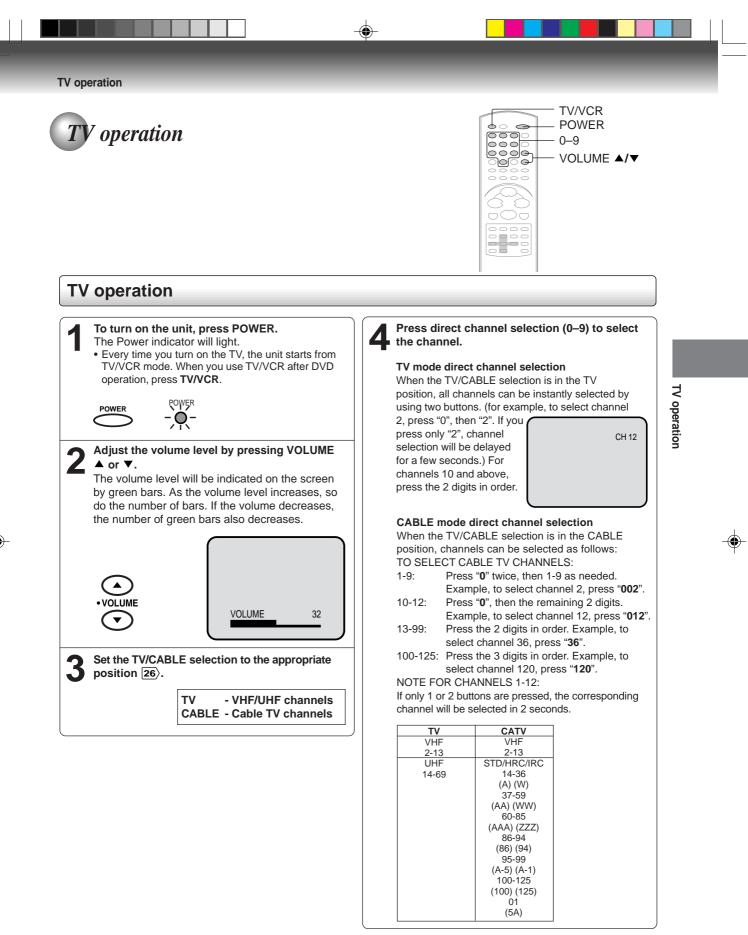
Basic setup

Notes:

- After a power failure or disconnection of the power, the timer settings will be lost. In this case, reset the present time.
- When you set the minute, you can change in 10-minutes step by holding down ← or ➡.

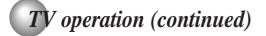
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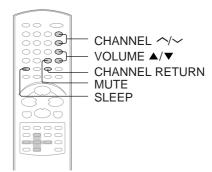




Notes:

- 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.
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TV operation

■ CHANNEL UP/DOWN

Press and release **CHANNEL** \frown or \checkmark . 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 page 26 "To memorize channels".



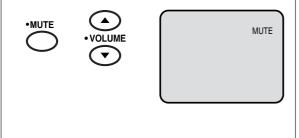
■ CHANNEL RETURN

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



MUTE

Press **MUTE** to switch off the sound. The unit's sound will be silenced and "MUTE" will briefly appear on the screen. The sound can be switched back on by pressing this button again or one of **VOLUME** \blacktriangle .



SLEEP

CH 012

CH 007

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To set the unit to turn off after a preset amount of time, press **SLEEP** on the remote control. The clock will count down 10 minutes for each press of **SLEEP** (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** and the remaining time will be displayed for a few seconds. To cancel the sleep timer, press **SLEEP** repeatedly until the display turns to 0.





HEADPHONES

Insert a stereo headphones (not supplied) with a 1/8" mini plug into the PHONES jack on the front panel. If you connect headphones, the sound from TV speakers is muted.





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.

CLOSED CAPTION

Closed captions

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 **CLOSED CAPTION** 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.



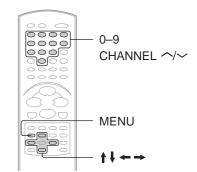
CAPTION CH 1	

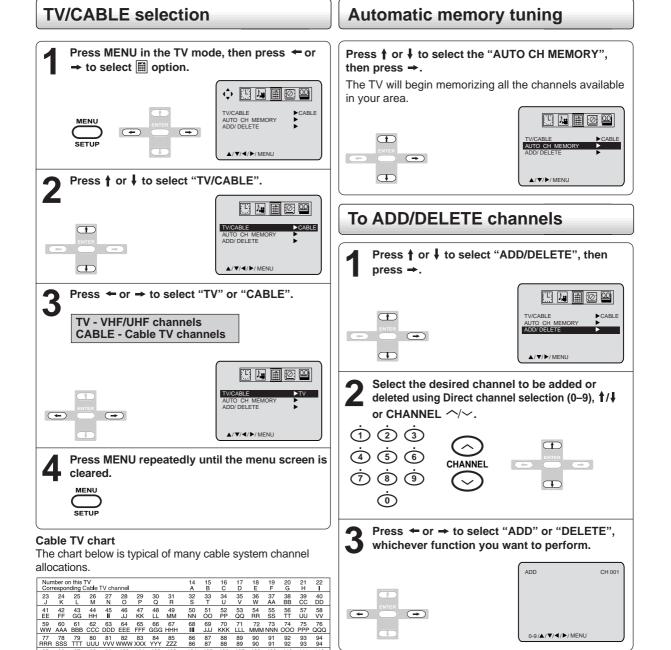
Notes:

- 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.



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 unit's memory. In addition to normal VHF and UHF channels, this unit can receive up to 113 cable TV channels. To use this unit with an antenna, set the TV/CABLE selection to the TV position. When shipped from the factory, this selection is in the CABLE position.





Note:

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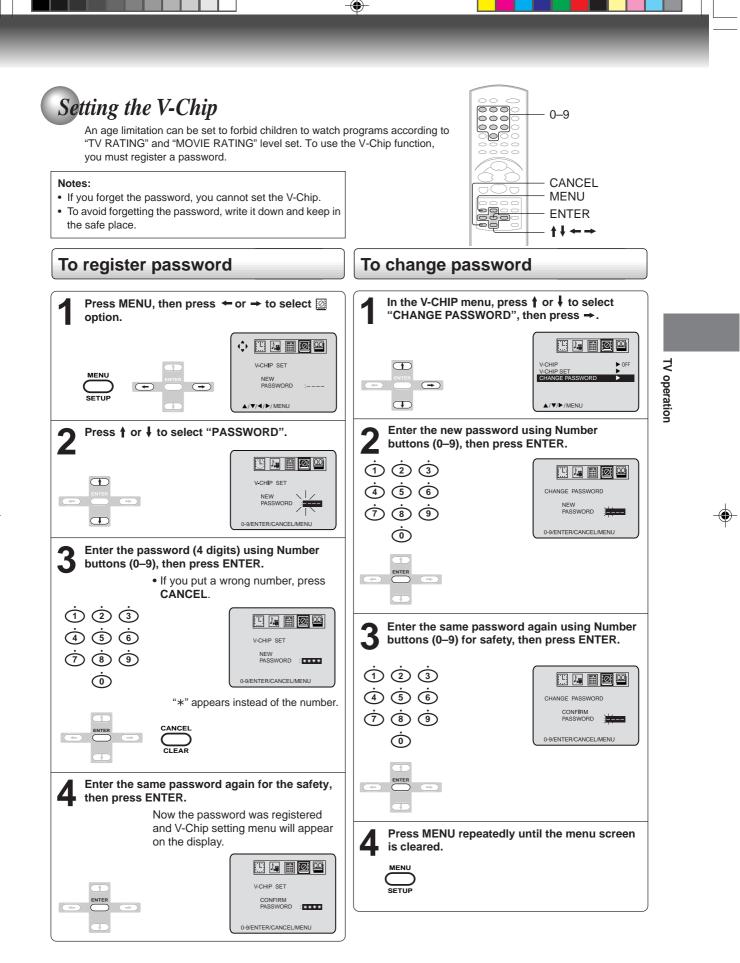
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You can not select I option if you set the channel to "LINE1" or "LINE2".

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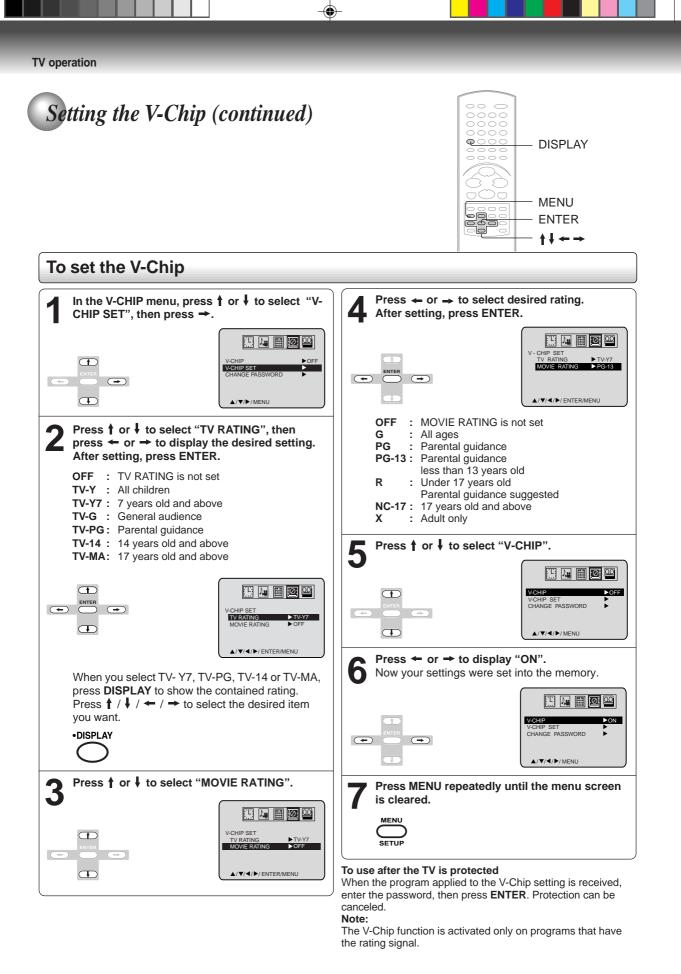
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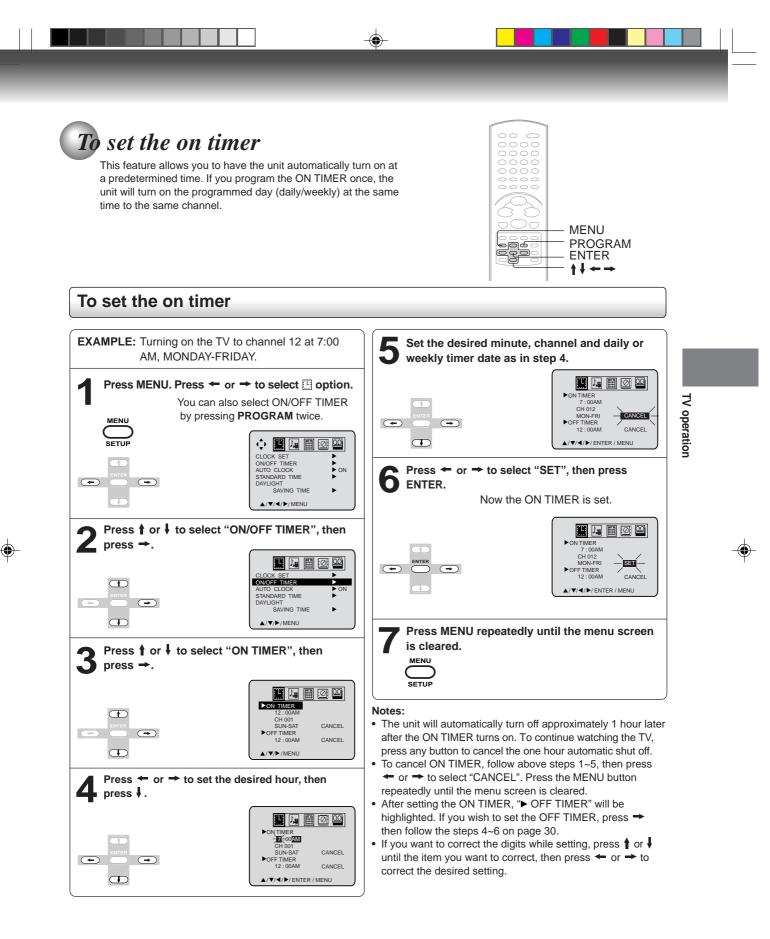
5L00301C [E]p27-32

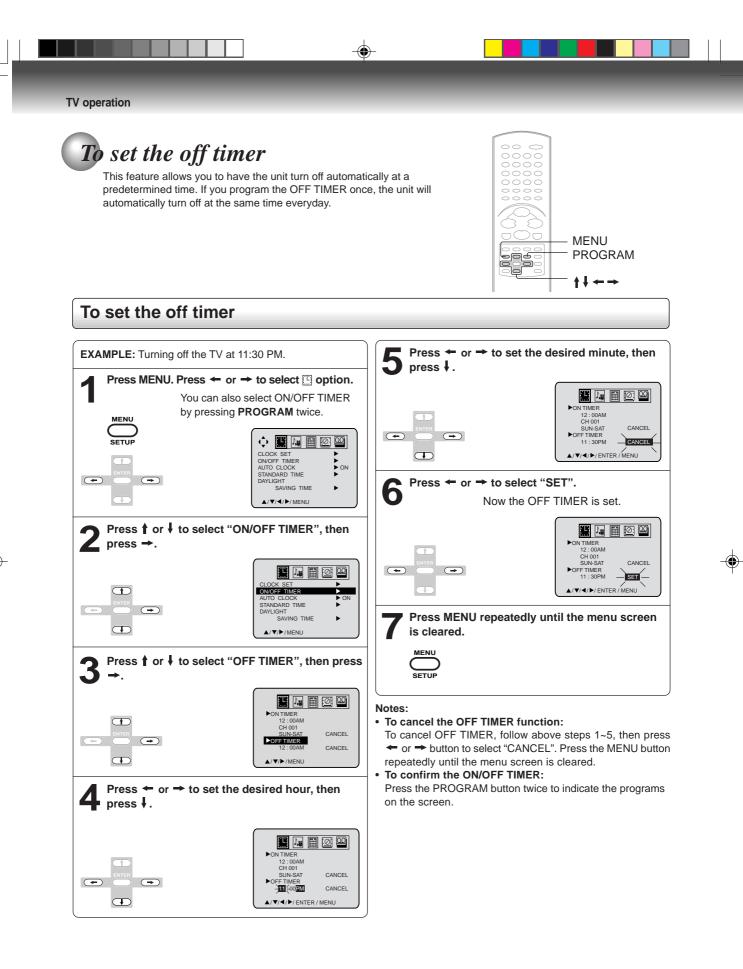




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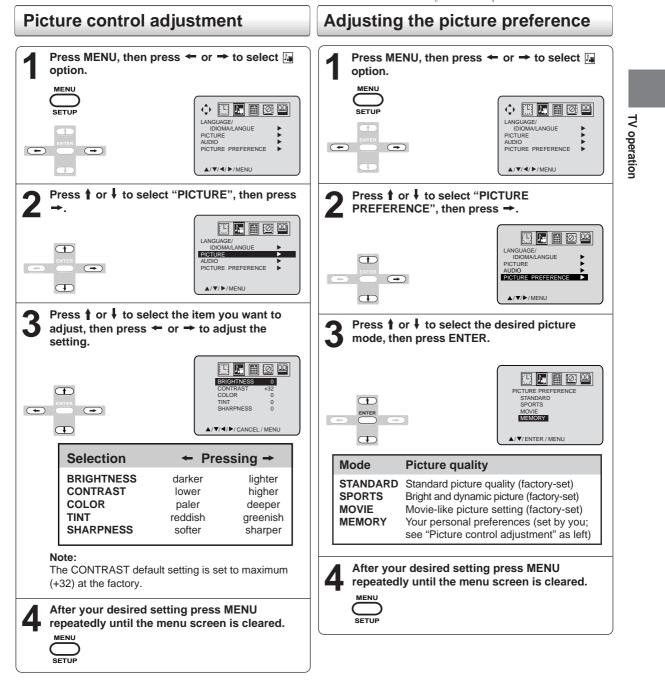




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To return all adjustments to the factory preset levels Press CANCEL while making picture adjustments. **↑↓←→**

TV operation

option.

setting.

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BASS:

TREBLE:

BALANCE:

SURROUND:

ON:

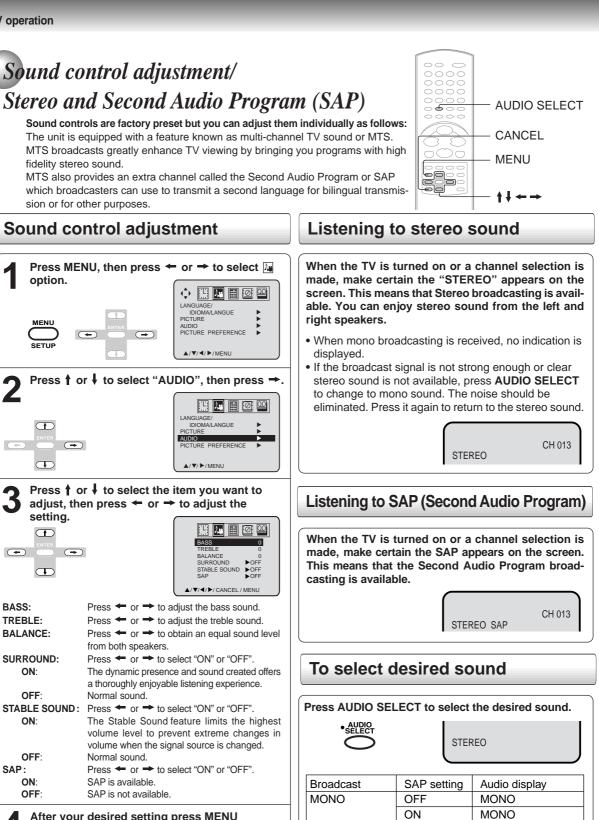
OFF:

ON:

OFF

OFF

SAP: ON:



After your desired setting press MENU repeatedly until the menu screen is cleared. MENU

To return BASS/TREBLE/BALANCE control adjustments to the factory preset levels

Press CANCEL while making sound adjustments.

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20/4/04, 16:14

OFF

ON

OFF

ON

OFF

ON

STEREO ↔ MONO

STEREO↔MONO

STEREO ↔ MONO

MONO

SAP

SAP

STEREO

MONO+SAP

STEREO+SAP

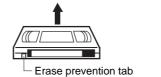


Loading

Push the center of the tape until it is automatically inserted.



Insert the cassette tape with its labeled side facing up and the erase prevention tab positioned at your left. An inverted cassette tape cannot be inserted.





Automatic power ON

When you insert a cassette tape the unit power will turn ON automatically.

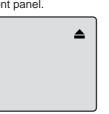
Automatic playback

When loading a cassette tape without an erase prevention tab, playback will start automatically.

Unloading







Remove the cassette tape.

Playback (VCR)

Automatic tape eject

This unit will automatically rewind the tape when the tape has ended. And when the tape is rewinded to its beginning, the cassette tape will be ejected automatically.

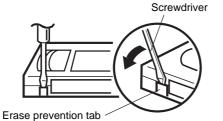
Notes:

- Always eject the tape when not in use.
- The cassette tape can be ejected even if the POWER is "OFF".

To prevent accidental erasure

To prevent accidental erasure

Remove the erase prevention tab with a screwdriver.



To record again

Cover the hole with a piece of adhesive tape.



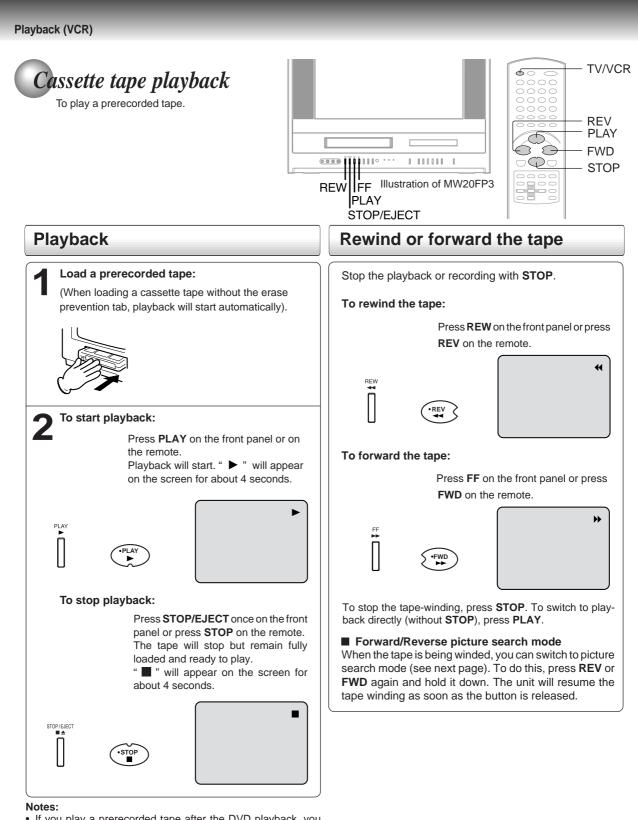
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Tape speed and maximum recording time Video cassette tape Tape Speed T-160 T-120 T-90 T-60 T-30 SP (Standard Play) 2-2/3 hours 2 hours 1-1/2 hours 1 hour 30 minutes SLP (Super Long Play) 8 hours 6 hours 4-1/2 hours 3 hours 1-1/2 hours

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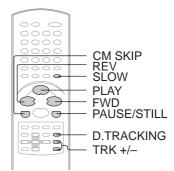


- If you play a prerecorded tape after the DVD playback, you must set the unit to TV/VCR mode using the TV/VCR button.
- This unit selects the playback tape speed SP or SLP automatically.
 When you select the TV/VCR mode during DVD playback, DVD
- When you select the TV/VCR mode during DVD playback, DVD playback will change to the still mode, and after 5 minutes it will change to the resuming playback mode automatically.

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Picture search

Reverse picture search function

Press **REV** once or twice during the playback.

Forward picture search function

Press **FWD** once or twice during the playback. To return to playback, press **PLAY**.

SPEED SEARCH TIMES

TAPE SPEED	PICTURE SEARCH SPEED	
IAFE SPEED	PRESS ONCE	PRESS TWICE
SP (Standard Play)	3 X	5 X
SLP (Super Long Play)	9 X	15 X

Still picture

Press **PAUSE/STILL** during playback.

To resume normal playback, press **PLAY** or **PAUSE/STILL**. If the still picture jitters excessively, press **TRK + /** – to stabilize the still picture.

Slow motion

During playback press SLOW.

To return to playback, press **PLAY** or **SLOW**.

Slow tracking and vertical lock adjustment

If noise bars appear in the picture during slow motion, press the **TRK** + /- to reduce the noise bars.

Frame by frame picture

Press PAUSE/STILL during playback.

Press **SLOW** one by one: The picture advances frame by frame.

To return to playback, press PLAY or PAUSE/STILL.

CM skip

Press **CM SKIP** during playback. The unit will search forward through approximately 30 seconds of the tape (e.g. unwanted commercial time) for each press of **CM SKIP** (maximum six presses) and then resume normal playback.

For example : 1 press: 30 seconds of tape 2 press: 60 seconds of tape 3 press: 90 seconds of tape

Digital tracking controls

When a tape is played, the Digital Auto Tracking system automatically adjusts the tracking to obtain the best possible picture. If noise bars appear during playback, adjust the tracking manually as follows:

 Press TRK + / – to obtain the best possible picture.
 "MANUAL TRACK" will appear for 4 seconds on the screen. To resume automatic tracking, press

D.TRACKING. "DIGITAL TRACK" will appear for 4 seconds on the screen.





Playback (VCR)

Notes:

"SP" is more appropriate as less noise appeared during search and still playback for tape recorded in SP.

The audio output is muted during SPEED SEARCH, STILL, FRAME ADVANCE and SLOW MOTION.

During picture search mode there will be noise bars which are caused by the system.

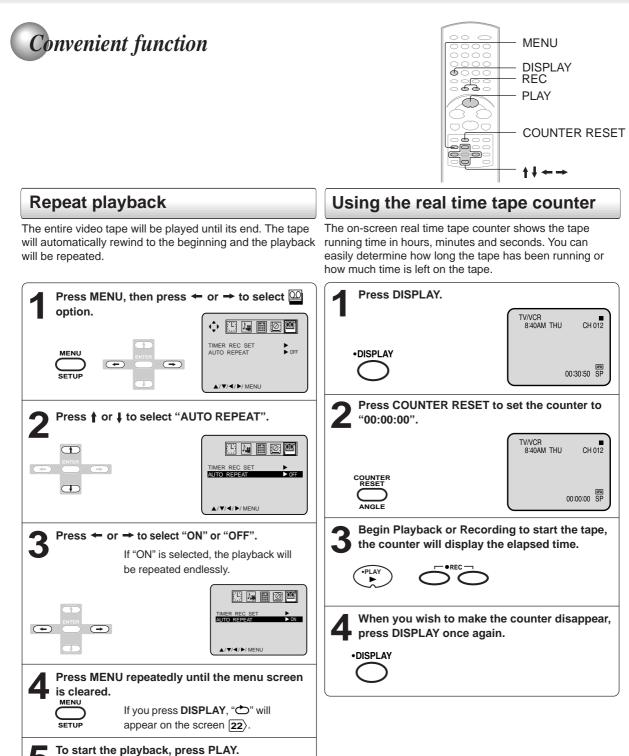
The Special Playback will automatically change to playback after approx. 5 minutes to protect the video tape against excessive wear.

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To cancel repeat mode:

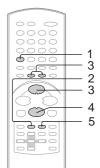
•PLAY

In step 3 above, press \leftarrow or \rightarrow to select "OFF" position. Press **MENU** repeatedly until the menu screen is cleared. The repeat function is canceled automatically when the unit is switched off.

The playback will be repeated endlessly.

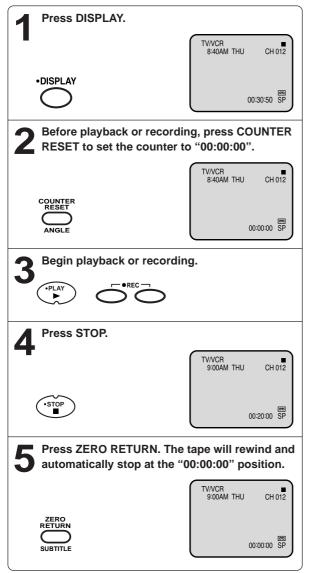
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Zero return function

The zero return function provides a convenient method of rap- Video head clogging idly returning to the starting point of recording or playback. The starting point can be indexed for any location on the tape by pressing COUNTER RESET and ZERO RETURN.



Video head cleaning

The video heads are the means by which the unit reads the picture from the tape during playback. In the unlikely event that the heads become dirty enough to be clogged, no picture will be played back. This can easily be determined if, during playback of a known good tape, there is good sound, but no picture (picture is extremely snowy). If this is the case, have the unit checked by qualified service personnel.

Good Picture



Snowy Picture

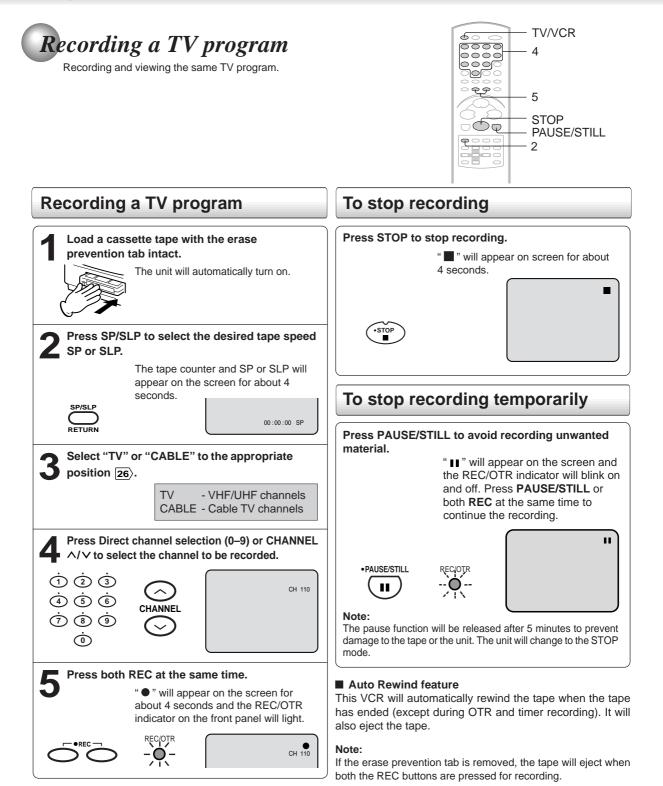
Video head cleaning

Video head cleaning is needed when the playback picture becomes unclear. This signifies that the heads are getting dirty and can occur when playing poor quality or damaged tapes. If the heads require cleaning, use a equivalent high quality chemical non-abrasive (wet) head cleaning tape or have them cleaned professionally. If playing a head cleaning tape in the unit once does not improve the picture, play it several times before requesting service.

Notes:

- DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE REAR COVER.
- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
- To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.

Playback (VCR)



Notes:

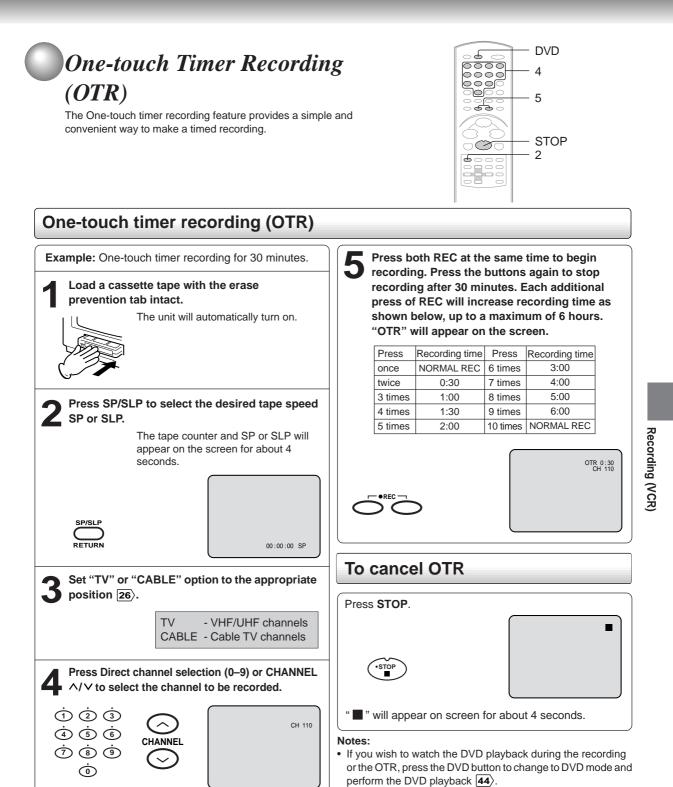
- If power is switched off during recording, the TV and the DVD sections go off and the VCR continues to record.
 Press the STOP button to halt the recording and turn off the VCR.
- The unit channel cannot be changed during recording.
- If you record the TV program after the DVD playback, you must set the unit to TV/VCR mode using the TV/VCR button.

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The channel cannot be changed during recording.

Recording (VCR)

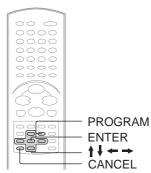
Timer recording φ TV/VCR Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 P programs within 1 month. TIMER REC MENU ENTER **↑↓ ← →** Timer recording **Preparation:** Set the start time, end time, channel and tape speed as in step 4. • Press TV/VCR to select the TV/VCR mode. Load a cassette tape with the erase prevention tab Then press ENTER. intact. - 🛵 🖩 • Check the time and date are correct 21>. IMER I DATE START Example: Program a timer recording for 23rd day, channel 125 ENC (Cable TV), 7:00 - 9:30 PM (Tape speed : SLP). /▼/◀/►/ ENTER/MEN Press MENU, then press \leftarrow or \rightarrow to select \square 1 Notes: option. Press 1 to move cursor backward 23 TH 7:00PM 9:30PM 125 SL 🔶 🗄 🚂 🖩 🖉 🎴 for correction. · To record from external source set the channel to "L1" or "L2". ► OFF UITO REPEAT -▲/▼/ ENTER/CANCEL/MENU To set the timer for another program, repeat Press **†** or **↓** to select "TIMER REC SET", then steps 3 to 5 to set another program. press ⇒. Press both TIMER REC at the same time. The 느 🛵 🏢 🞯 📟 TIMER REC indicator will light. The Timer is programed, when the programed time is reached, the recording is automatically started. /▼/►/ MENU TIMER REC To cancel timer recording, press Press ↑ or ↓ to select one of the program line, both the buttons again and TIMER REC indicator will go out. then press ENTER. Notes: · The VCR section cannot be used while the TIMER REC indicator is lit. If you want to use the VCR operation, press both TIMER REC buttons at the same time to deactivate the timer. When the clock is not set, you cannot select "TIMER REC". ▲/▼/ ENTER/MENU In this case, set the clock (see pages 19~21). • After a power failure or disconnection of the power plug,all Press ← or → to select the date, then press ↓. programmed recording setting and time display will be lost upon resumption of power. In this case, reset the clock (see pages 19~21) and reprogram any timer recordings. If you want to correct the digits while setting, press f or I 23(THU) until the item you want to correct, then press \leftarrow or \rightarrow to (+ 012 correct the desired setting. SPEED If programming is performed without a tape in the unit, or (▼/◀/►/ MENU with a tape without an erase prevention tab, the Timer Recording is not possible. If a tape without an erase prevention

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tab is in the unit, the tape will be ejected.



(twice) L 🚂 🖩 🖉 🎱

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7:00PM 8:00PM 9:30 PM 9:00 PM

CANCEL

CANCEL

CH 001

To set daily/weekly timer To confirm the settings Press PROGRAM once. The TV screen displays the Weekly (e.g. WKL-TUE: each Tuesday) or daily (e.g. timer program list. Press PROGRAM again. The TV MON-SAT: Monday to Saturday) Timer recording screen displays the ON/OFF timer setting. Follow the procedure of timer recording on the previous page. At picture 4 press \leftarrow or \rightarrow repeatedly until the Press PROGRAM 3 times. The desired setting appears. Then press ENTER. menu screen is cleared. When you press - repeatedly, the indicator at DATE will change as follows, in this case the day is Friday. (once) The current day (Friday) → SUN-SAT (Sunday to Saturday) TH 7:00PM 9:30PM 125 ↑ MON-SAT (Monday to Saturday) One month later minus one day MON-FRI (Monday to Friday) ./▼/ ENTER/CANCEL/MENU Ŷ WKL-THU (Weekly Thursday) WKL-WED (Weekly Wednesday) To cancel a program Press PROGRAM once. The TV screen displays the (+) timer program list. Press **†** or **↓** to select the unnecessary program, and press CANCEL to cancel the program. If the programs overlap another Do not overlap timer programs as portions of the conflicting programs will be lost. The first recording time has priority over the next recording time as shown /▼/ ENTER/CANCEL/ME in the diagram below. 8:00 9:00 10:00 11:00 Program 1 Program 2 Deleted Parts Program 3 corded Portion Pa Recording Prog.3 Prog.1 Prog.2 ▲/▼/ ENTER/MENU

Notes:

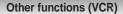
5L00301C [E]p38-41

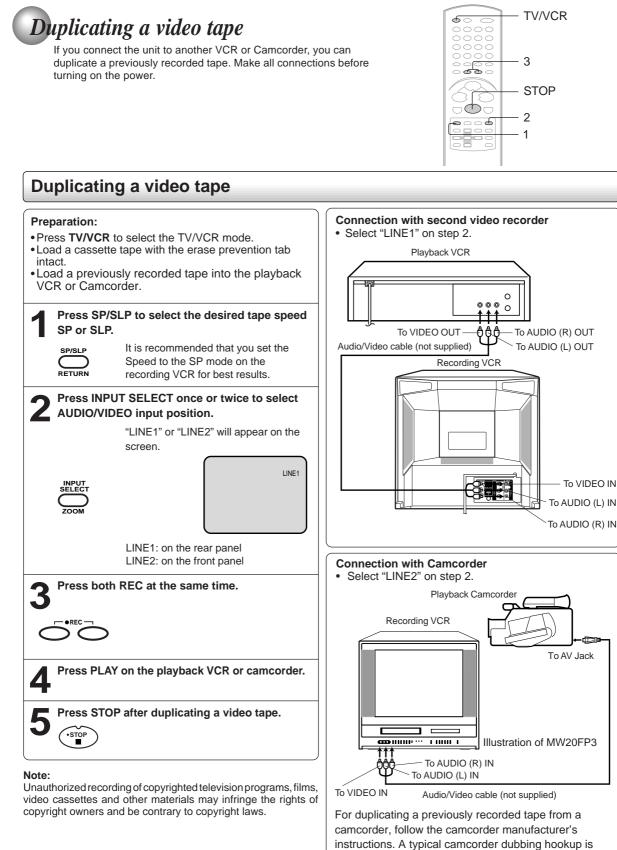
Control Settings

- The daily/weekly recording can be made continuously until the recording is canceled or the tape reaches the end.
- · During timer recording the automatic rewinding mechanism does not function.
- You can correct or cancel the programed setting in program confirm mode.

Recording (VCR)

41





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5L00301C [E]p42-43

42

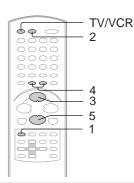
42

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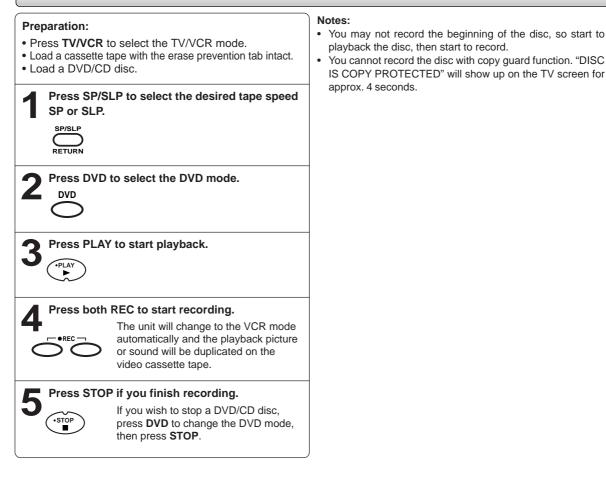
shown above.



You can record disc material in DVD, Audio CD, etc. onto a video tape with this unit.

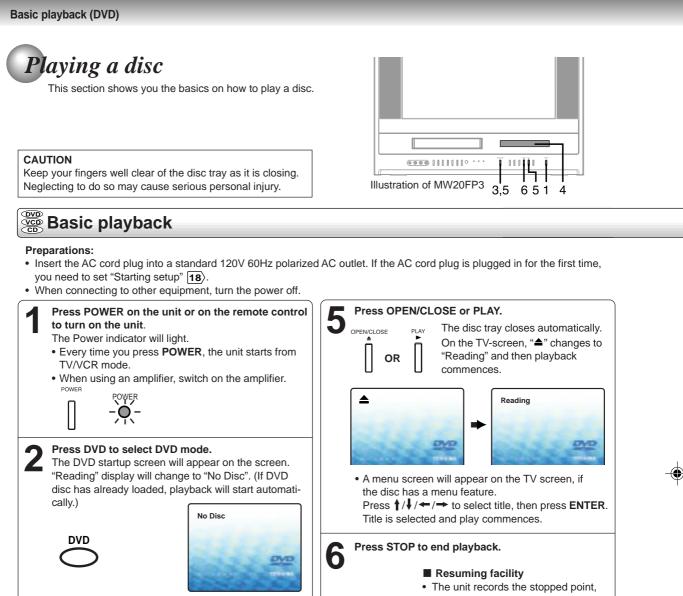


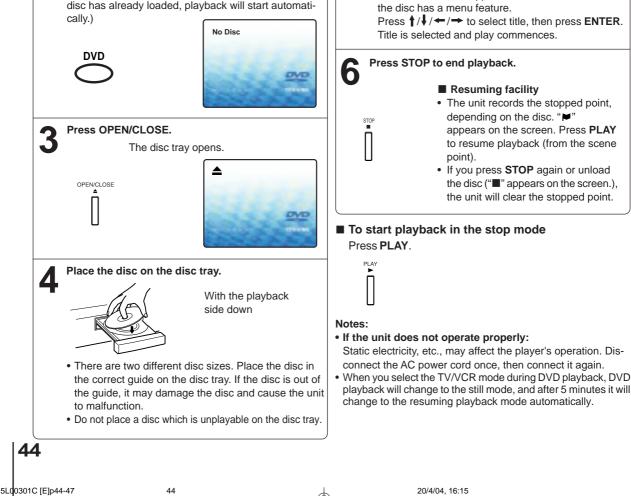
Duplicating a DVD or CD disc



Other functions (VCR)

43





To obtain a higher quality picture

Occasionally, some picture noise not usually visible during a normal broadcast may appear on the TV screen while playing a DVD video disc because the high resolution pictures on these discs include a lot of information. While the amount of noise depends on the TV you use with this unit, you should generally reduce the sharpness adjustment on your TV when viewing DVD video discs.

About DVD VCD CD

The OVD COD icons on the heading bar show the playable discs for the function described under that heading

- You can use this function with DVD video discs.
- **vcp** : You can use this function with Video CDs.
- OD: You can use this function with Audio CDs and CD-R/RW CDs

To pause playback (still mode)

Press PAUSE during playback.



To resume normal playback, press PLAY.

· The sound is muted during still mode

To stop playback

Press STOP.



Press OPEN/CLOSE.

To remove the disc

Remove the disc after the disc tray opens completely.

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DVD

PLAY

PAUSE

STOP

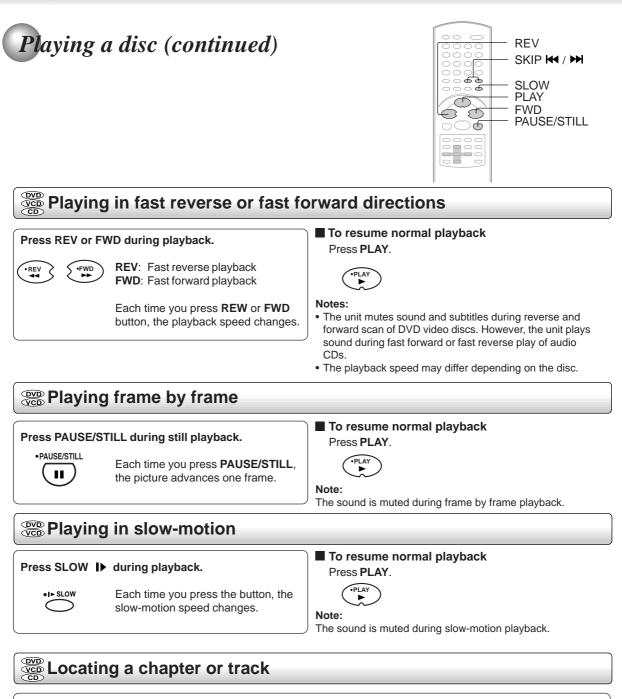
POWER

Be sure to press OPEN/CLOSE to close the disc tray after you remove the disc.

Notes:

- 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 8 and 55).
- 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 the OPEN/CLOSE button or the PLAY button on the unit, "Reading" will appear on the display for 30 seconds and then "Incorrect Disc" will continue to be displayed.
- · Some discs may not work the resuming facility.
- Resuming cannot function when you play a PBC-featured Video CD while the PBC is on. To turn off the PBC, see page 52.
- · 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.
- Do not move the unit during playback. Doing so may damage the disc.
- . Use the OPEN/CLOSE button to open and close the disc tray. Do not push the disc tray while it is moving. Doing so may cause the unit to malfunction.
- . Do not push up on the disc tray or put any objects other than discs on the disc tray. Doing so may cause the unit to malfunction.
- . In many instances, a menu screen will appear after playback of a movie is completed. Prolonged display of an on-screen menu may damage your television set, permanently etching that image onto its screen. To avoid this, be sure to press the POWER button on your remote control once the movie is completed.
- There may be a slight delay between you pressing the button and the function activating.

OPEN/CLOSE



Press SKIP I a or b repeatedly to display the chapter or track number you want.

Playback starts from the selected chapter or track.



To locate succeeding chapters or tracks.



Playback starts from the beginning of the current chapter or track. When you press twice in quick successions, playback starts from the beginning of the preceding chapter or track.

Notes:

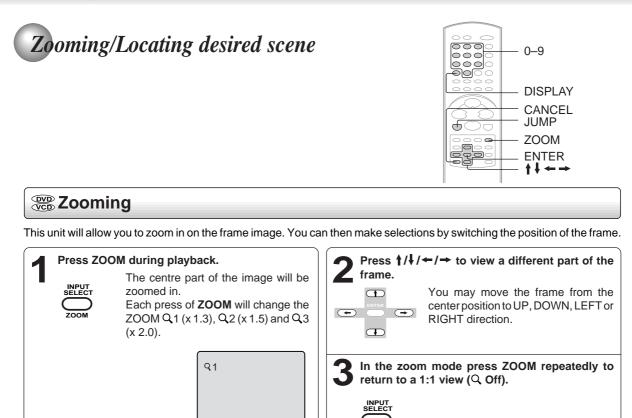
- A "Prohibition" symbol may appear at the upper left of the screen. This symbol means either the feature you tried is not available on the disc, or the unit can not access the feature at this time. This does not indicate a problem with the unit.
- The unit is capable of holding a still video image or 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.

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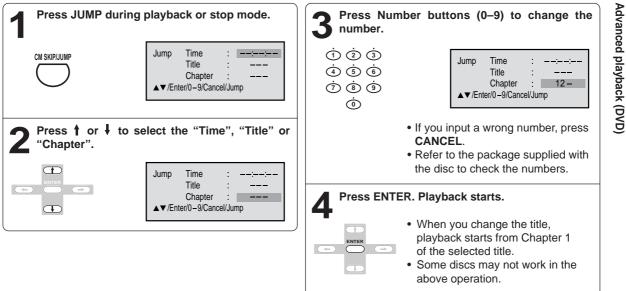
Notes:

• You can select the Pause, Slow or Search playback in the zoom mode.

• Some discs may not respond to zoom feature.

Eccating desired scene

Use the title, chapter and time recorded on the disc to locate the desired point to play back. To check the title, chapter and time, press **DISPLAY**.



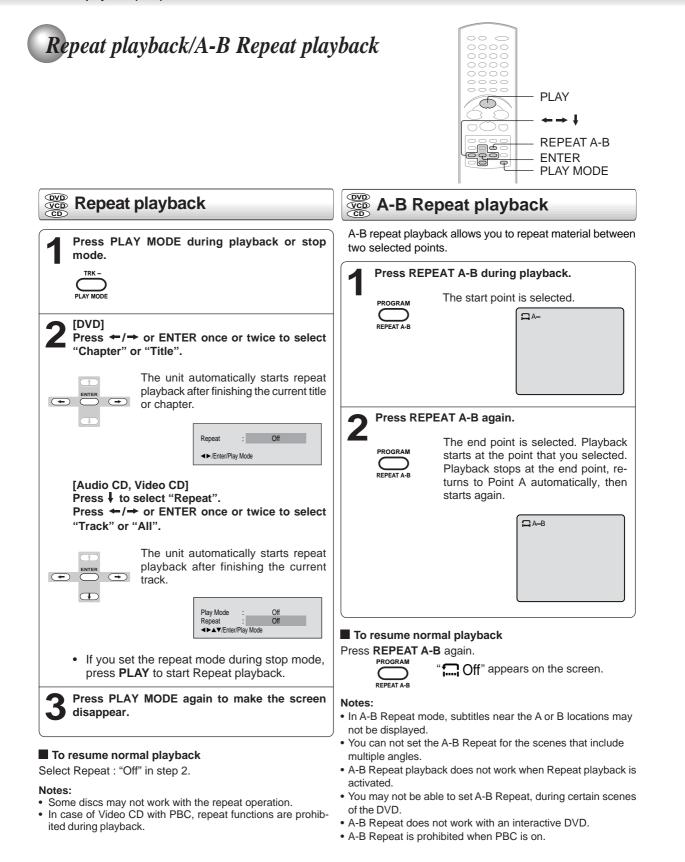
Note:

In case of the Video-CD playback with PBC, the JUMP does not work. To turn off PBC, see page 52).

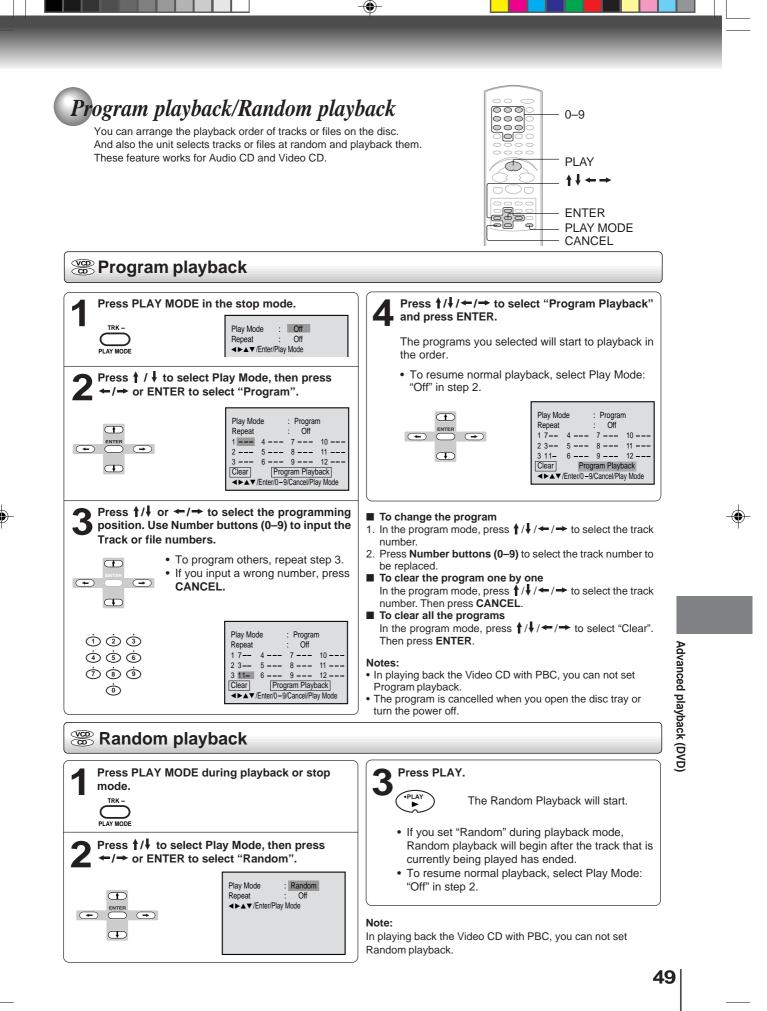
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47



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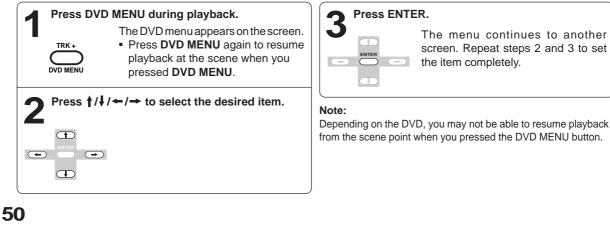
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Changing angles/Title selection/DVD menu PLAY OP MENU MENL Changing angles When playing back a disc recorded with multi-angle facility, you can change the angle that you are viewing the scene from. Press ANGLE during playback. Press ANGLE repeatedly until the desired angle is selected. The current angle will appear. **₽** 1/9 Note: Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD. 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. Press TOP MENU during playback. Press ENTER or PLAY. Title menu appears on the screen. The playback of the selected title will start. Press $\uparrow/\downarrow/\leftarrow/\rightarrow$ to select the desired title. CT. Note: (+) -Depending on the DVD, you may not be able to select the title. Œ Depending on the DVD, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

(

🚥 DVD menu

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

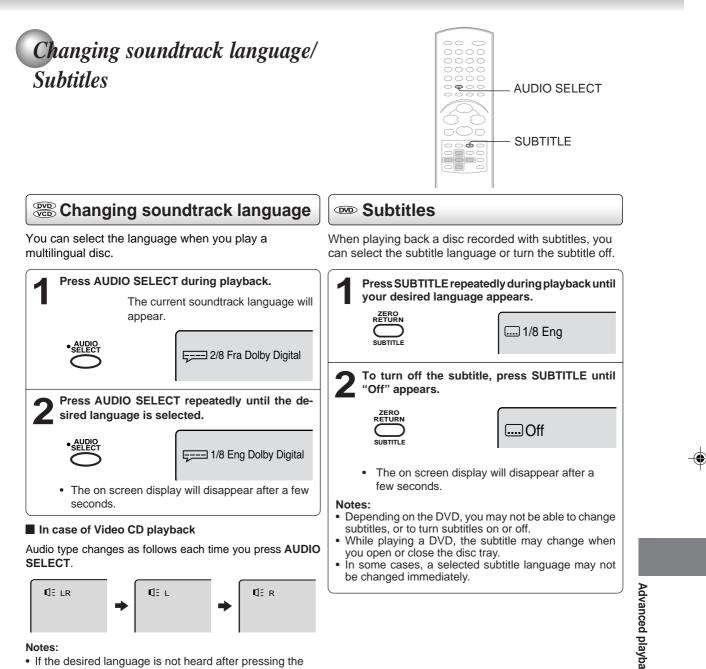


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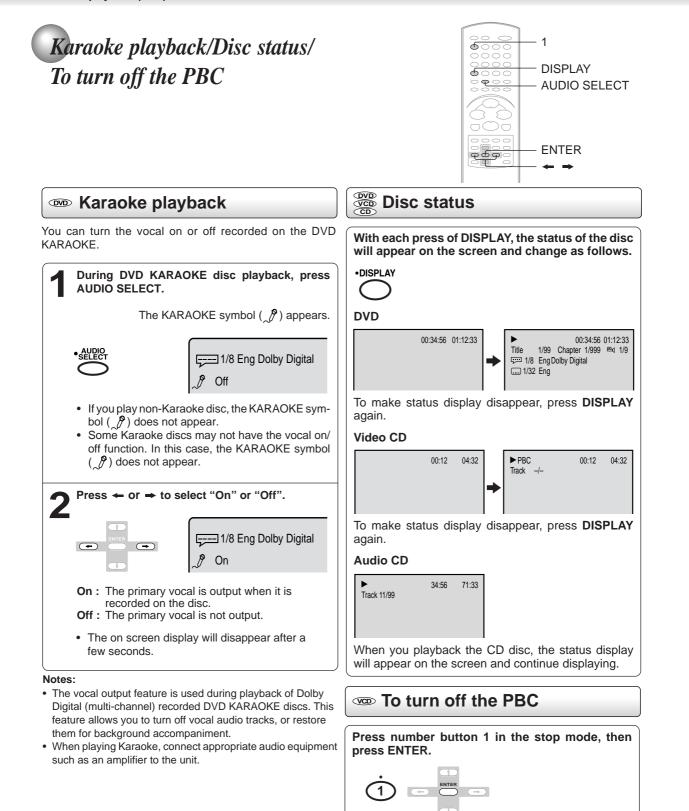
5L00301C [E]p48-51

50

20/4/04, 16:16



- button several times, the language is not recorded on the disc.
- · Changing soundtrack language is cancelled when you open the disc tray. The initial default language or available language will be heard if the disc is played back again.
- · If you select DTS in playing DTS-encoded disc, no sound will be heard from the unit's speakers.

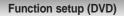


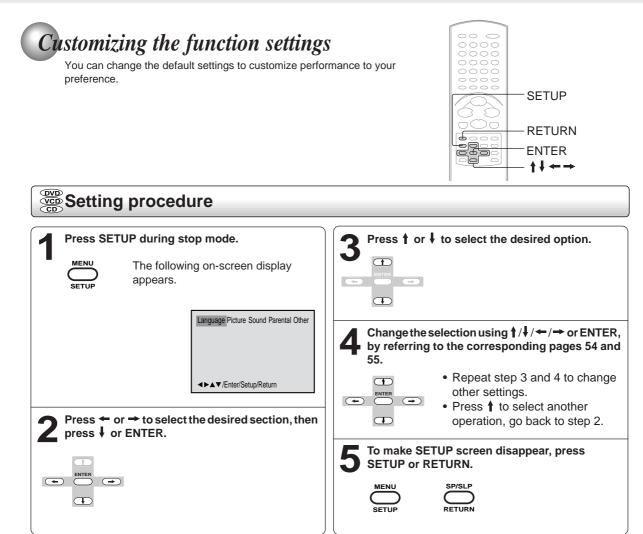
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52

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Section	Option	Details		
Language	Menu Subtitle Audio	To select the language of "Menu", "Subtitle" and "Audio" if their languages are recorded onto the disc more than one language.	54	
	Tv Screen	To select a picture size according to the aspect ratio of your TV.	54	
Picture Display		To turn on or de-activate the operational status display on the screen.		
Sound	DRC	To select On or Off for DRC (Dynamic Range Control).	55	
Parental	Password	Input 4-digit password to set the parental level.	55	
Farental	Parental	To select a preferred parental level for the parental setting.		
Other	OSD Language To select a preferred language for on screen display.		55	

Customizing the Function Settings (continued)

-•

Setting details

Language	Language Picture Sound Parental Other	Picture	Language Picture Sound Parental Other	
	Menu English English Subtitle Automatic Francais Audio English Espanol Other		Tv Screen 4:3 □ 4:3 □ Display On 4:3 □ 16:9 □	
	✓►▲▼/Enter/Setup/Return		<►▲▼/Enter/Setup/Return	
 Menu, Subtitle, Audio You can select the language "Audio" if more than one lang the disc. English, Francais, Espano The selected language will the disc. Other: Other language can be sele code list" on page 57). Original: (Audio) The unit will select the first product disc. Automatic: (Subtitle) The unit will automatically language in the AUDIO set the AUDIO, the subtitles will playback. When you do not use the the AUDIO, the subtitles will playback. Off: (Subtitle) Subtitles do not appear. 	uages are recorded onto ol: be heard or seen. cted (see the "Language priority language of each or select the same etting. same language as vill not appear during same language as vill appear during	 TV. When playing back a displays the wide picture wand bottom of screen. 4:3 Pan scan: It displays the wide picture left and right edges automatication and the second statement of the second statement of	nnecting to a conventional wide screen-DVD disc, it with black bands at the top e on the whole screen with atically cut off. onnecting to a wide-screen s displayed full size. and in the pan & scan style, witched on or off when you ppear when you press the ig).	¢

	Sound		Language Picture Sound Parental Other DRC On On	1) F
			Off	2) F
				y y
			45	3) F
			▲►▲▼/Enter/Setup/Return	
	DRC			
			ol) enables you to control	5) F
	• •	so as to ac	hieve a suitable sound for	
-	ur equipment.			4 6) F
(colosion or similar is toned	1 (0 b
	•	•	yed back. This makes it connected to a stereo.	· ·
(cording level on the disc.	If yo
	otes:		-	1. Pi
		s only durin	g playback of Dolby Digital	
1	ecorded discs.			"N
	depending on DVI		Reduction may differ	4. W
				or
	Derentel			5. Ei
	Parental		Language Picture Sound Parental Other	Note
			Password	• De
				pla • So
			0-9/Cancel ◄►▲▼/Enter/Setup/Return	info
				For
Pa	rental control s	etting		
So	me discs are sp	pecified not	suitable for children.	
So Su	me discs are sp ch discs can be li	pecified not mited not to	play back with the unit.	
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So Su	me discs are sp ch discs can be li Press ↑ or ↓ to or → until the lo	Decified not mited not to b select "Pa evel you re	play back with the unit. rrental", then press ← quire appears.	
So Su	me discs are sp ch discs can be li Press ↑ or ↓ to or → until the lo • Level Off:	Decified not mited not to b select "Pa evel you re	play back with the unit. rrental", then press ←	
So Su	me discs are sp ch discs can be li Press ↑ or ↓ to or → until the lo • Level Off: 7 • Level 8: 4	becified not mited not to b select "Pa evel you rea The parenta unction. All DVD soft	play back with the unit. arental", then press ← quire appears. al control setting does not ware can be played back.	
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To change the parental level

-) Press ↑ or ↓ to select "Password".
- Press Number buttons (0–9) to enter the password you have stored.
- 3) Press ENTER.
 - The rating is now unlocked.
- 4) Press ↑ or ↓ to select "Parental", then press ← or → to change the parental level.
- 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.
 6) Press ENTER.
- Now the parental level is changed and locked.

If you forget the password...

- 1. Press OPEN/CLOSE to open the disc tray.
- Remove the disc.
- 3. Press **OPEN/CLOSE** again to close the disc tray. "No Disc" appears on the screen.
- 4. While holding **STOP** down on the front panel, press **7** on the remote control. "PASSWORD CLEAR" appears on the screen.
 - Enter a new password again.
- Depending on the discs, the unit may not be able to limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult."
 For those discs, the parental control feature will not work.



Language Picture Sound Parental Other OSD Language English English Francais Espanol

▲►▲▼/Enter/Setup/Return

OSD Language

The setup language can be selected.

English: To display OSD language is English. **Francais:** To display OSD language is Francais. **Espanol:** To display OSD language is Espanol.

If each setup (pages 54 and 55) has been completed, the unit can always be worked under the same conditions (especially with DVD discs).

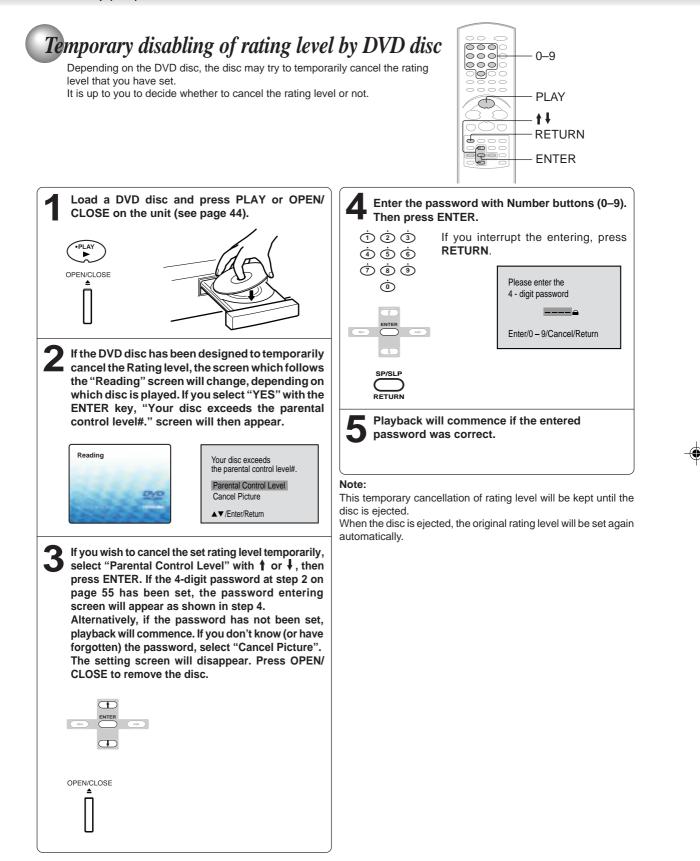
Each setup will be retained in the memory even if you turn the power off.

55

Function setup (DVD)

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Function setup (DVD)



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Others

Language code list Enter the appropriate code number for the initial settings "Menu", "Subtitle" and/or "Audio" (see page 54).

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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

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Others

Troubleshooting

Check the following guide for the possible cause of a problem before contacting service.

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SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS	PAGE
POWER		•	
No power.	The AC power cord is not connected.	Connect the AC power cord to the AC outlet.	5
Although the power is on, the	Cassette or disc is not inserted.	Insert a video cassette or disc.	33, 44
unit does not operate.	The TIMER REC buttons are depressed.	Press the TIMER REC buttons.	40
TV BROADCAST RECEP	PTION		
	TV station experiencing problems.	Try another channel.	23
	Picture control is not adjusted.	Check picture control adjustments.	31
Poor or no picture.	Possible local interference.	Check for source of reception distur- bance.	60
	Antenna (CABLE) connector is not connected or possible local interference.	Check CABLE connection or VHF/UHF antenna, reposition or rotate antenna.	14, 15
	TV station experiencing problems.	Try another channel.	23
	Picture control is not adjusted.	Check picture control adjustments.	31
Poor or no color.	Possible local interference.	Check for source of reception distur- bance.	60
	Antenna (CABLE) connector is not connected or possible local interference.	Check CABLE connection or VHF/UHF antenna, reposition or rotate antenna.	14, 15
	TV station experiencing problems.	Try another channel.	23
Picture wobbles or drifts.	Antenna (CABLE) connector is not connected or possible local interference.	Check CABLE connection or VHF/UHF antenna, reposition or rotate antenna.	14, 15
	Cable TV channel is scrambled.	Try another channel.	23
	CABLE connector is not connected.	Check all CABLE connections.	15
No CATV reception.	TV/CABLE selection is set to the TV position.	Set the selection to the CABLE position.	26
	Cable TV service interrupted.	Contact your Cable TV company.	15
No reception above	TV/CABLE selection is not set to the appropriate position.	Make sure selection is in the appropriate position.	26
channel 13.	UHF antenna is not connected.	Check UHF antenna.	14
	TV station experiencing problems.	Try another channel.	23
	Antenna (CABLE) connector is not connected or possible local interference.	Check CABLE connection or VHF/UHF antenna, reposition or rotate antenna.	14, 15
Poor or no sound.	Possible local interference.	Check for source of reception distur- bance.	60
	The MUTE button is depressed.	Check the MUTE button has not been pressed.	24
TV shuts off.	TV station stopped broadcasting.	Tune new channel.	23
	Sleep timer is set.	Set Sleep Timer to "0".	24
	TV station experiencing problems or program tuned is not closed captions.	Try another channel.	23
Closed caption is not activated.	TV signal is weak.	Check CABLE connection of VHF/UHF antenna, reposition or rotate antenna.	14, 15
	The CLOSED CAPTION button is not depressed.	Press the CLOSED CAPTION button to turn on the closed caption.	25

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SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS	PAGE
VCR			
TV recording does not work.	The video cassette's erase prevention tab is broken off.	Place a piece of adhesive tape over the hole.	33
	The time is not set correctly.	Reset the present time.	20, 21
Timer recording does not	The recording start/end time is not set correctly.	Reset the start/end time.	40
work.	The TIMER REC buttons have not been pressed at the same time (the TIMER REC indicator is not lit).	Press the TIMER REC buttons at the same time (the TIMER REC indicator is lit).	40
	Tape is old or worn.	Replace the tape.	-
Noise bars appear on the screen.	Tracking adjustment is beyond range of automatic tracking circuit.	Adjust tracking manually using the TRK +/– buttons on the remote control.	35
	Video heads are dirty.	Clean the video heads.	37
DVD			
	The disc is dirty.	Eject the disc and clean it.	7
The playback picture has occasional distortion.	It is in fast forward or fast reverse playback.	Some times a small amount of picture distortion may appear. This is not a malfunction.	-
	No disc is inserted.	Insert a disc.	44
	An unplayable disc is inserted.	Insert a playable disc (Check the disc type and color system).	8
The unit does not start	The disc is placed upside down.	Place the disc with the playback side down.	44
playback.	The disc is not placed within the guide.	Place the disc correctly inside the guide on the disc tray.	44
	The disc is dirty.	Clean the disc.	7
	The parental lock function is set.	Cancel the parental lock function or change the parental lock level.	55, 56
Playback does not follow the course of the disc's program.	It is in the mode of repeat playback, memory playback, etc.	These operations may prevent a proper progress of the contents.	-
	The function is prohibited with the unit or the disc.	_	8
REMOTE CONTROL			
	The remote control is not aimed at the sensor.	Aim the remote control at the remote sensor.	12
Remote control does not	Distance is too far or too much light in the room.	Operate within 5 m or reduce the light of the room.	12
operate.	There is an obstacle in the path of the beam.	Clear the path of the beam.	12
	The batteries are weak.	Replace the batteries.	12
	The batteries are not inserted correctly.	Insert correctly.	12

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Others

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Others

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 unit 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 unit 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 unit 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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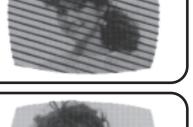
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	MW20FP3	MW24FP3			
General					
Power supply	AC 120 V 60 Hz				
Power consumption					
Operation:	110 W	135 W			
Stand by:	4 W				
Picture tube	Type 20 (508 mm diagonal)	Type 24 (600 mm diagonal)			
Speaker	1-13/16 x 3-7/8 inches (46 x 99 mm), 8 Ω x 2				
Audio output power	1.5 W + 1.5 W				
Weight	59.5 lbs (27 kg)	79.4 lbs (36 kg)			
Dimensions					
Width:	22-9/16 inches (573 mm)	25-13/16 inches (655 mm)			
Height:	20-3/8 inches (517 mm)	22-13/16 inches (580 mm)			
Depth:	18-15/16 inches (481 mm)	18-5/8 inches (472.5 mm)			
Tuner	181 channel freq. synthesized				
	VHF 2-13				
	UHF 14-69				
	CATV 125 Channels				
Antenna input	UHF/VHF: 75 Ω coaxial				
Color system	NTSC				
Video head	4 Rotary heads				
Audio track	Hi-Fi sound - 2 Tracks / MONO sound - 1 Track				
Hi-Fi frequency response	20 Hz to 20,000 Hz				
Hi-Fi dynamic range	More than 90 dB				
F.FWD/REW time	Approx. 1 minute and 48 seconds (with T-120 cassette tape)				
at 25°C (77°F)					
Applicable disc	DVD (12 cm, 8 cm), CD (12 cm, 8 cm)				
Frequency range	DVD: 4 Hz-22 kHz, CD: 4 Hz-20 kHz				
Operating conditions	Temperature: 5°C-40°C (41°F-104°F), Operating status: Horizontal				
Input/Output					
Video input	1.0 V (p-p), 75 Ω, negative sync., pin jack x 2				
Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack x 1				
Audio input	-8 dBm, 50 k Ω , negative sync., pin jack (L/R) x 2				
Audio output	–8 dBm, 1 kΩ, negative sync., pin jack (L/R) x 1				
Audio output	0.5 V (p-p), 75 Ω, pin jack x 1				
(DIGITAL COAXIAL)					
Supplied accessories					
Remote control (WC-FN2)				
Batteries (R03/AAA)					
300-75 Ω matching transf	ormer 1				

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• Designs and specifications are subject to change without notice.

Others

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Limited warranty

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties. These limited warranties extend to the original consumer purchaser or any person receiving this set as a gift from the original consumer purchaser and to no other purchaser or transferee.

Limited Ninety (90) Day Warranty

TACP warrants this product and its parts against defects in materials or workmanship for a period of ninety (90) days after the date of original retail purchase. During this period, TACP will repair a defective product or part, without charge to you. You must deliver the entire set to an Authorized TACP Service Station. You pay for all transportation and insurance charges for the set to and from the Service Station.

Limited One (1) Year Warranty

TACP further warrants the parts in this product against defects in materials or workmanship for a period of one year after the date of original retail purchase. During this period TACP will replace a defective part without charge to you, except that if a defective part is replaced after ninety (90) days from the date of original retail purchase you pay labor charges involved in the replacement. You must also deliver the entire product to a TACP Authorized Service Station. You are responsible for all transportation for the set to and from the Service Station.

Limited Two (2) Year Warranty of Picture Tube

TACP further warrants the picture tube in this product against defects in materials or workmanship for a period of two (2) years after the date of original retail purchase. During this period, TACP will replace a defective picture tube without charge to you except that if a defective picture tube is replaced after ninety (90) days from the date of the original retail purchase, you pay labor charges involved in the replacement. You are responsible for all charges involved in the replacement. You are responsible for all transportation and insurance charges for the set to and from the Service Station.

Rental Units

The warranty for rental units begins with the first rental or thirty (30) days from the date of shipment to the rental firm, whichever comes first.

Commercial Units

Products sold and used for commercial use have a limited ninety (90) day warranty for all parts, labor and picture tube.

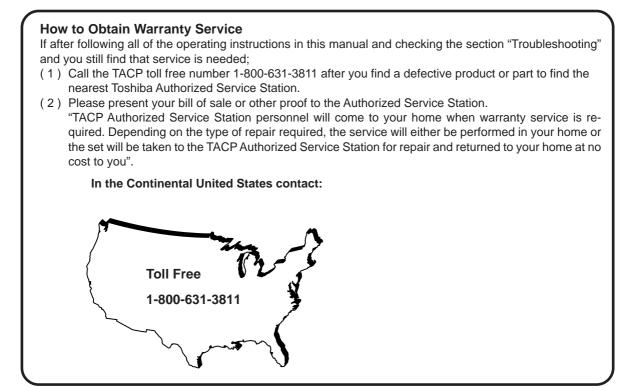
Owner's Manual and Demographic Card

You should read this owner's manual thoroughly before operating this product. You should complete and mail the enclosed Demographic card within ten days after you, or the person who has given you this product as a gift, purchased this product. This is one way to enable TACP to provide you with better customer service and improved products. Failure to return the Demographic card will not affect your rights under this warranty.

Your Responsibility

The above warranties are subject to the following conditions:

- (1) You must retain your bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this product must be made by an Authorized TACP Service Station.
- (3) These warranties are effective only if the product is purchased and operated in the U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, set up, adjustment of customer controls and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above and do not extend to any product or parts which have been lost or discarded by you or to damage to products or parts caused by misuse, accident, damage caused by Acts of God, such as lightning or fluctuations in electric power, improper installation, improper maintenance or use in violation of instructions furnished by us; or to units which have been altered or modified without authorization of TACP.



All warranties implied by state law, including the implied warranties of merchantability and fitness for a particular purpose, are expressly limited to the duration of the limited warranties set forth above. With the exception of any warranties implied by state law as hereby limited, the foregoing warranty is exclusive and in lieu of all other warranties, guarantees, agreements and similar obligations of manufacturer or seller with respect to the repair or replacement of any parts. In no event shall TACP be liable for consequential or incidental damages.

No person, agent, distributor, dealer or company is authorized to change, modify or extend the terms of these warranties in any manner whatsoever. The time within which action must be commenced to enforce any obligation of TACP arising under this warranty or under any statute, or law of the United States or any state thereof, is here by limited to 90 days from the date you discover or should have discovered, the defect. This limitation does not apply to implied warranties arising under state law.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state. Some states do not allow limitation on how long an implied warranty lasts, when an action may be brought, or the exclusion or limitation of incidental or consequential damages, so the above provisions may not apply to you.



ATTENTION CANADIAN CONSUMERS:

Canadian consumers are requested to complete the special Canadian "Warranty Registration Form" enclosed, and forward this completed form with a copy of bill of sale to TOSHIBA OF CANADA to "Register and Validate" their warranty.

Products purchased in the U.S.A. and used in Canada are not covered by these warranties. Products purchased in Canada and used in the U.S.A. are not covered by these warranties. Rev. 09-01-98

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