# **TOSHIBA**













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**COMBINATION FLAT COLOR TELEVISION AND VIDEO CASSETTE RECORDER / DVD VIDEO PLAYER** 

> MW20F12 MW24F12

OWNER'S MANUAL



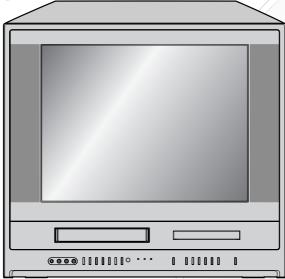


Illustration of MW20F12

©2006 Toshiba Corporation

This device does not tape-record copy protected DVD video discs.

5W50101A [E]Cover



Thank you for purchasing this Toshiba TV. This manual will help you use the many exciting features of your new TV. Before operating the TV, please read this manual completely, and keep it nearby for future reference.

# **Safety Precautions**

#### WARNING

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



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



The lightning symbol in the triangle tells you that the voltage inside this product may be strong enough to cause an electric shock. DO NOT TRY TO SERVICE THIS PRODUCT YOURSELF.



The exclamation mark in the triangle tells you that important operating and maintenance instructions follow this symbol.

CAUTION: To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.

#### **NOTE TO CATV INSTALLERS**

This is a reminder to call the CATV system installer's attention to Article 820-40 of the NEC, which 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. For additional antenna grounding information, see items 25 and 26 on page 4.

# **NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE DISPLAY**

If a fixed (non-moving) pattern or image remains on the TV screen for extended periods of time, the image can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. This type of damage is **NOT COVERED BY YOUR WARRANTY.** See page 4 for details.

# It Makes A Difference Where Your TV Stands



Congratulations on your purchase! As you enjoy your new TV, keep these safety tips in mind:

#### The Issue

- ☐ If you are like most consumers, you have a TV in your home. Many homes, in fact, have more than one TV.
- ☐ The home theater entertainment experience is a growing trend, and larger TVs are popular purchases; however, they are not always supported on the proper TV stands.
- ☐ Sometimes TVs are improperly secured or inappropriately situated on dressers, bookcases, shelves, desks, audio speakers, chests, or carts. As a result, TVs may fall over, causing unnecessary injury.

### Toshiba Cares!

☐ The consumer electronics industry is committed to making home entertainment enjoyable and safe.

☐ The Consumer Electronics Association formed the Home **Entertainment Support Safety** Committee, comprised of TV and consumer electronics furniture manufacturers, to advocate children's safety and educate consumers and their families about television safety.

### **Tune Into Safety**

☐ One size does NOT fit all! Use appropriate furniture large enough to support the weight of your TV (and other electronic components).

- ☐ Use appropriate angle braces, straps, and anchors to secure your furniture to the wall (but never screw anything directly into the TV).
- Carefully read and understand the other enclosed instructions for proper use of this product.
- ☐ Do not allow children to climb on or play with furniture and TVs.
- ☐ Avoid placing any item on top of your TV (such as a VCR, remote control, or toy) that a curious child may reach for.
- ☐ Remember that children can become excited while watching a program and can potentially push or pull
- ☐ Share our safety message about this hidden hazard of the home with your family and friends. Thank you!



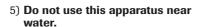
2500 Wilson Blvd. Arlington VA 22201 II S A Tel. 703-907-7600 Fax 703-907-7690 www.CE.ora

CEA is the Sponsor, Producer and Manager of the International CES®



## **Important Safety Instructions**

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.





- 6) Clean only with a dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.



8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9) Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.



10) Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where it exits the apparatus.



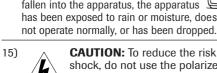
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod. bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.



13) Unplug this apparatus during lightning storms or when unused for long periods of time.



14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does

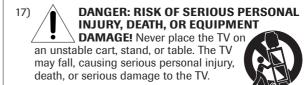


CAUTION: To reduce the risk of electric shock, do not use the polarized plug with an extension cord, receptacle, or other outlet unless the blades can be inserted completely to prevent blade exposure.

### Installation, Care, and Service Installation

Follow these recommendations and precautions and heed all warnings when installing your TV:

16) Never modify this equipment. Changes or modifications may void: a) the warranty, and b) the user's authority to operate this equipment under the rules of the Federal Communications Commission.



18) Never place or store the TV in direct sunlight; hot, humid areas; areas subject to excessive dust or vibration; or locations with temperatures at or below 41°F (5°C).



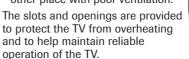
19) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.

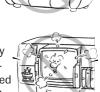


20) Never place items such as vases, aquariums, or candles on top of the TV



- 21) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides. Never place
  - · on a bed, sofa, rug, or similar surface;
  - · too close to drapes, curtains, or walls: or
  - · in a confined space such as a bookcase, built-in cabinet, or any other place with poor ventilation.





- 22) Never allow anything to rest on or roll over the power cord, and never place the TV where the power cord is subject to wear or abuse.
- 23) Never overload wall outlets and



extension cords.

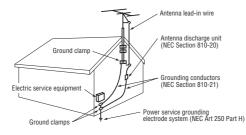


# **IMPORTANT SAFEGUARDS**

24) Always operate this equipment from a 120V AC, 60 Hz power source only.



25) Always make sure the antenna system is properly grounded to provide adequate protection against voltage surges and built-up static charges (see Section 810 of the National Electric Code).



DANGER: RISK OF SERIOUS PERSONAL INJURY OR DEATH!

• Use extreme care to make sure you are never in a position where your body (or any item you are in contact with, such as a ladder or screwdriver) can accidentally touch overhead power lines. Never locate the antenna near overhead power lines or other electrical circuits.

- Never attempt to install any of the following during lightning activity:
- a) an antenna system; or b) cables, wires, or any home theater component connected to an antenna or phone system.

#### Care

For better performance and safer operation of your TOSHIBA TV, follow these recommendations and precautions:

- 27) Always sit approximately 10–25 feet away from the TV and as directly in front of it as possible. The picture can appear dull if you sit too far to the left or right of the TV, or if sunlight or room lights reflect on the screen. Turn the TV off to check for reflections on the screen, and then remove the source of reflections while viewing the TV.
- Always unplug the TV before cleaning. Never use liquid or aerosol cleaners.



29)

**WARNING: RISK OF ELECTRIC SHOCK!**Never spill liquids or push objects of any kind into the TV cabinet slots.

- 30) [This item applies to projection TVs only.] If the air temperature rises suddenly (for example, when the TV is first delivered), condensation may form on the lenses. This can make the picture appear distorted or the color appear faded. If this happens, turn off the TV for 6 to 7 hours to allow the condensation to evaporate.
- 31) For added protection of your TV from lightning and power surges, always unplug the power cord and disconnect the antenna from the TV if you leave the TV unattended or unused for long periods of time.
- 32) During normal use, the TV may make occasional snapping or popping sounds. This is normal, especially when the unit is being turned on or off. If these sounds become frequent or continuous, unplug the power cord and contact a Toshiba Authorized Service Center.
- 33) Possible Adverse Effects on TV Picture Display If a fixed (non-moving) pattern or image remains on the TV screen for extended periods of time, the image can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY.

Never leave the TV on for extended periods of time while it is displaying the following images or formats:

- Fixed Images, including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, and websites.
- Special Formats that do not use the entire screen, including but not limited to widescreen or letterbox format media viewed on a 4:3 aspect ratio display (with gray or black bars at the top and bottom of the screen); or 4:3 aspect ratio format media viewed on a widescreen/16:9 aspect ratio display (with gray or black bars on the left and right sides of the screen).

#### **Service**

WARNING: RISK OF ELECTRIC
SHOCK! Never attempt to service the
TV yourself. Opening and
removing the covers may expose
you to dangerous voltage or other
hazards. Refer all servicing to a
Toshiba Authorized Service Center.

- 35) If you have the TV serviced:
  - Ask the service technician to use only replacement parts specified by the manufacturer.
  - Upon completion of service, ask the service technician to perform routine safety checks to determine that the TV is in safe operating condition.
- 36) When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV. Improper disposal may result in a picture tube implosion and possible personal injury.

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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 quarantee 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
- 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

#### **CAUTION:**

THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

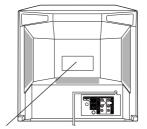
TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN FOR FU-TURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTE-NANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. VISIBLE LASER RADIATION 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.

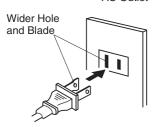
WARNING: This product contains a laser beam. Do not attempt to stare at the beam through the DVD disc tray or the ventilation openings. Staring directly at the beam may cause permanent damage to your

#### 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.



# 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

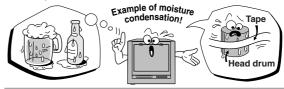
Use a soft, dry cloth for cleaning.

- For stubborn dirt, 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.

### 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.

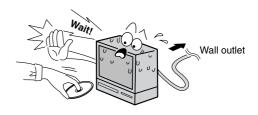


- Moisture condensation occurs during the following cases.
- When you bring the unit directly from a cold place to a warm place.
- When you use the unit in a room where you just turned on the heater, or a place where the cold wind from the air conditioner directly hits the unit.
- In summer, when you 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.



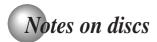
#### Do not use the unit when moisture condensation may occur.

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.



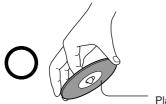
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# On handling discs

Do not touch the playback side of the disc.



Playback side

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.





 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.

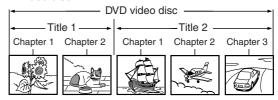
# On storing discs

- 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



#### Video CD/Audio CD



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

The unauthorized recording, use, distribution, or revision of copyrighted materials including, without limitation, television programs, videotapes, and DVDs, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

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.







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### 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 or , 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
			12 cm	Approx. 4 hours (single sided disc)
DVD	VIDEO	Audio + Video	12 CIII	Approx. 8 hours (double sided disc)
video discs	DVD VIDEO 164	(moving pictures)	8 cm	Approx. 80 minutes (single sided disc)
			O CITI	Approx. 160 minutes (double sided disc)
Video	TCOMPACT	Audio + Video (moving pictures)	12 cm	Approx. 74 minutes (single sided disc )
CDs	DIGITAL VIDEO		8 cm	Approx. 20 minutes (single sided disc )
Audio	COMPACT COMPACT		12 cm	Approx. 74 minutes (single sided disc )
CDs	DIGITAL AUDIO	Audio	8 cm	Approx. 20 minutes (single sided disc )

The following discs are also available.

- DVD-R/RW discs of DVD video format
- CD-R/CD-RW discs of CD-DA or Video CD 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 cannot 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.).

Because of problems and errors that can occur during the creation of DVD and CD Software and/or the manufacture of DVD and CD discs, Toshiba cannot assure that the DVD player contained in this television will successfully play every disc bearing the DVD and CD logos. If you happen to experience any difficulty playing a DVD and/or CD disc on the DVD player contained in this television, please contact Toshiba Customer Service.

is a trademark of DVD Format/Logo Licensing Corporation.

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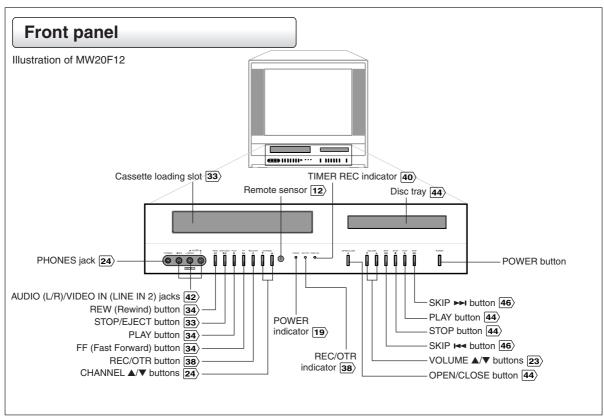
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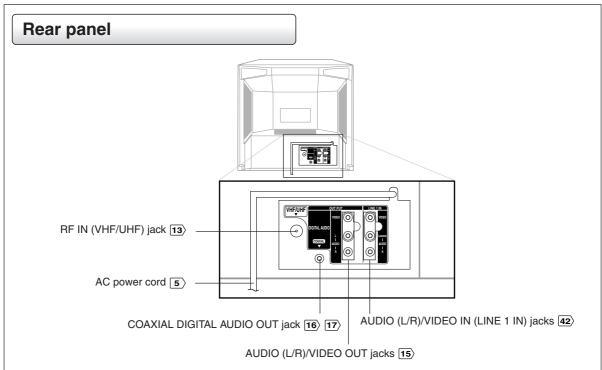
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# Identification of controls

See the page in \_\_\_\_ for details.

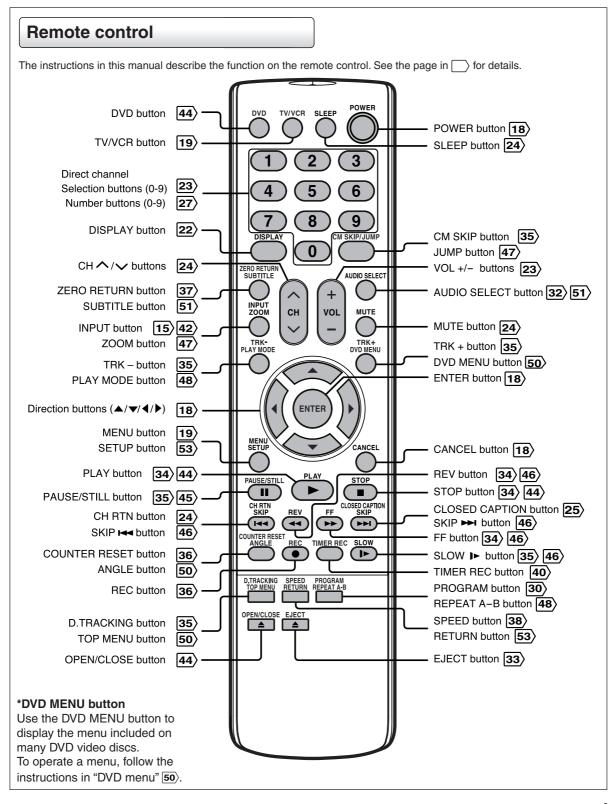




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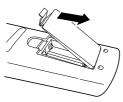
# Identification of controls (Continued)

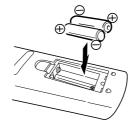
### **Inserting batteries**

Open the battery compartment cover in the direction of the arrow.

Install two "R03/AAA" batteries (supplied), paying attention to the polarity diagram in the battery compartment.

Replace the compartment







#### Caution:

Never throw batteries into a fire.

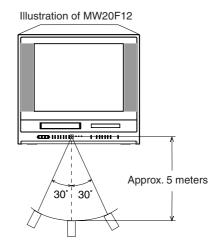
- Be sure to use AAA size batteries.
- Dispose of batteries in a designated disposal area.
- Batteries should always be disposed of with the environment in mind. Always dispose of batteries in accordance with applicable laws and regulations.
- If the remote control does not operate correctly, or if the operating range becomes reduced, replace batteries with new ones.
- When necessary to replace batteries in the remote control, always replace both batteries with new ones. Never mix battery types or use new and used batteries in combination.
- Always remove batteries from remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prevent battery acid from leaking into the battery compartment.

#### 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  $CH \land or \lor to move through the channels one channel at a time.$
- The **Direction** buttons ( $\triangle/\nabla/\blacktriangleleft/\triangleright$ ) are also used to navigate on-screen menu system.
- You can directly access specific channels using **Direct channel selection** buttons.

### Operation:

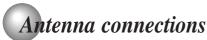
- Aim the remote control at the remote sensor and press control buttons to
- Operate the remote control within 30° angle on either side of the remote sensor, up to a distance of approx. 5 meters.



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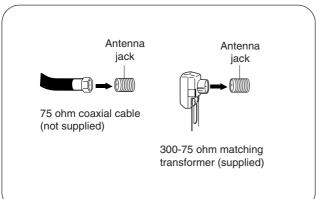






If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a cable TV service (CABLE), see 14 for Cable TV connections.

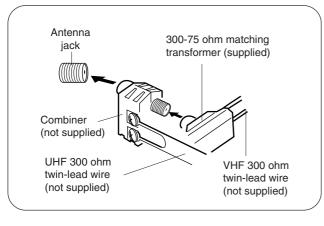
### Combination VHF/UHF antenna (Single 75 ohm cable or 300 ohm twin-lead wire)



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

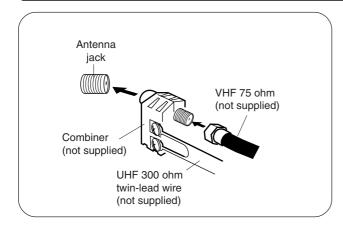
If your combination VHF/UHF antenna has a 300 ohm twin-lead wire, the use of the 300-75 ohm matching transformer may be necessary.

## 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.

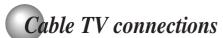
# Separate VHF/UHF antennas (75 ohm VHF cable and 300 ohm UHF twin-lead wires)



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.

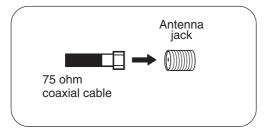


#### Connections



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.

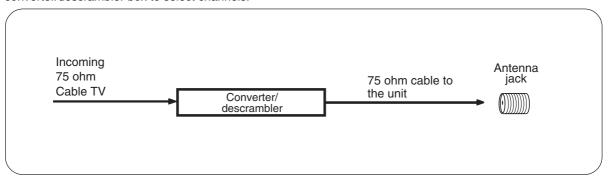
#### For subscribers to basic cable TV service



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.

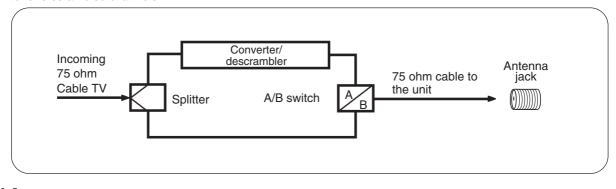
### For subscribers to scrambled cable TV service

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.



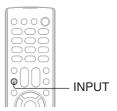
|14

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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 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** repeatedly to select the desired mode.

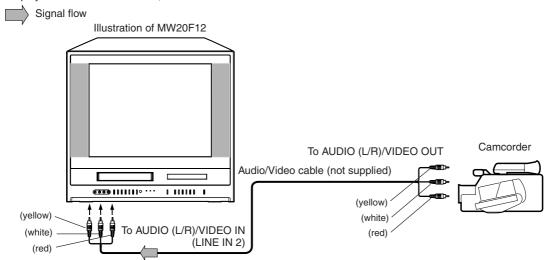
"LINE1", "LINE2" or TV channel will display on the screen for 4 seconds.



Note: This key will not operate in DVD mode.

# Connecting to a camcorder

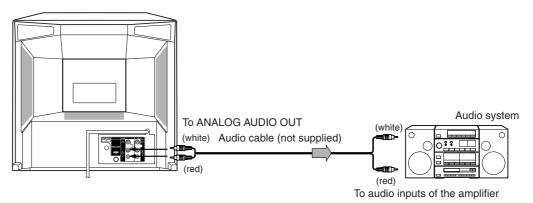
To playback from the camcorder, connect the camcorder to the unit as shown.



# Connecting to an audio system

Connect the unit to your audio system.







#### Connections



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

• This section uses the following reference mark.

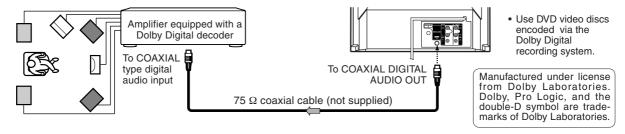
☐ : Front speaker☐ : Rear speaker☐ : Sub woofer

☐ : Center speaker⇒ : Signal flow

# Connecting to an amplifier equipped with a Dolby® Digital decoder

#### **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.



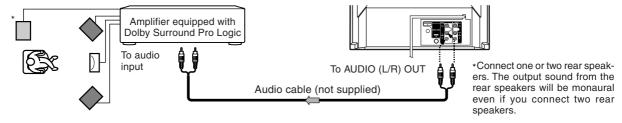
# Connecting to an amplifier equipped with Dolby Surround Pro Logic

#### **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.
  - This connection is only suitable for Video CDs and Audio CDs.

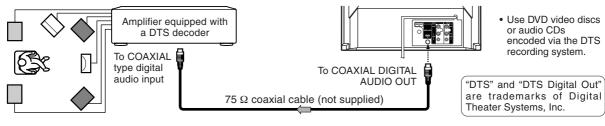
16



# Connecting to an amplifier equipped with a DTS decoder

#### **Digital Theater Systems (DTS)**

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.



16

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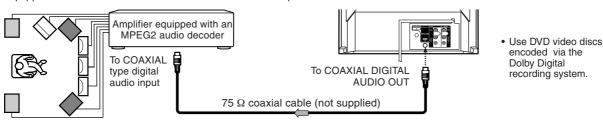
•



# Connecting to an amplifier equipped with a MPEG audio decoder

#### MPEG2 sound

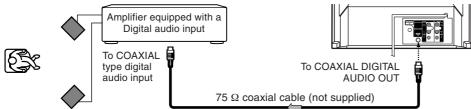
You can enjoy motion picture and live concert DVD video discs with dynamic realistic sound by connecting an amplifier equipped with an MPEG2 audio decoder or MPEG2 audio processor.



# 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).



- 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.

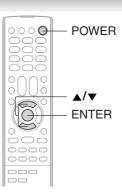






The STARTING SETUP function makes installing your unit easily. It leads you the Language selection, TV/CABLE selection and auto channel memory automatically.

IMPORTANT: Make sure that the antenna or cable TV system connection is made!



# Starting setup

Press POWER.

The starting setup function begins and the Language setup menu appears on the screen. Press ▲ or ▼ to select your desired language, then press ENTER.







Press ▲ or ▼ to select "TV" or "CABLE", then press ENTER.

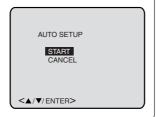




Press ▲ or ▼ to select "START", then press ENTER.

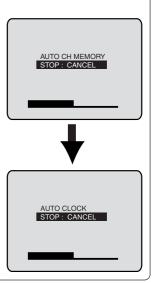
If you select "CANCEL" and press **ENTER**, the STARTING SETUP stops and changes to the TV screen.



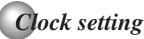


A Now the "AUTO CH MEMORY" and "AUTO CLOCK" starts.

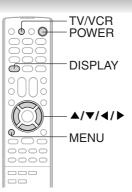
After the starting setup is completed, the TV channel appears on the screen.



- The starting setup function will work only when you press POWER for the first time.
- In "AUTO CLOCK" setting, it may take more than 10 minutes to read the EDS signal for one channel, which has only "Time of day" or "Local time zone".



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.



# Auto clock setting

#### Preparation:

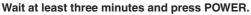
- · Connect the antenna or cable system.
- If you use a cable box, turn it on.
- Plug the AC power cord to the AC outlet.

1

#### Make sure the unit is turned off.

 If you press POWER, the Auto Clock set is not effective.

2 w





 Depending on the reception condition, it may take approx. thirty minutes.



• The POWER indicator will light.



Press TV/VCR to select TV/VCR mode. Then press DISPLAY to check the clock on the screen.







If the clock is not set, check the antenna condition. The Auto clock may not function properly if the reception condition is not good.

# Auto clock adjustment

# The Auto clock adjustment will be performed at 12:00 PM everyday if you turn off the unit.

- If you use a cable box and you want Auto Clock adjustment to be performed, the cable box must be left on.
- The Auto Clock adjustment is not effective when there is a difference of more than 5 minutes exists between the built-in clock time and the actual time.

# To set auto clock to OFF

When shipped from factory the AUTO CLOCK is set to "ON". But if you do not want auto clock set (Adjustment):

Press MENU, then press ◀ or ▶ to select ☐ option.

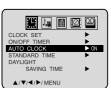






Press ▲ or ▼ to select "AUTO CLOCK".





Press ◀ or ▶ to select "OFF".





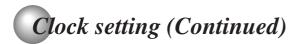
Press MENU repeatedly until the menu screen is cleared.

SETUP

- When the AUTO CLOCK is set to "OFF", the Auto Clock adjustment does not function.
- Set the clock manually **21**).

- If the unit does not operate properly, or No key operation (by the unit and/or the remote control): Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
- The TV section has its own menu and also DVD section has its own menu 53>.
- If no buttons are pressed for more than 60 seconds, the TV/VCR menu screen will return to normal TV operation automatically.





# To set standard 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:

Press MENU, then press ◀ or ▶ to select □







Press ▲ or ▼ to select "STANDARD TIME", then press >





Press ▲/▼/◀/▶ to select your time zone, then press ENTER.



ATLANTIC : GMT-4hours **FASTERN** : GMT-5hours **CENTRAL** : GMT-6hours MOUNTAIN: GMT-7hours **PACIFIC** : GMT-8hours **ALASKA** : GMT-9hours HAWAII : GMT-10hours **AUTO** : AUTO SET (GMT: Greenwich Mean Time)

Press MENU repeatedly until the menu screen is cleared.



### Note:

To be able to select the standard time, the clock must first be set by "AUTO CLOCK" once.

# To set daylight saving time

Press MENU, then press ◀ or ▶ to select □







Press ▲ or ▼ to select "DAYLIGHT SAVING TIME", then press ▶.





Press ▲ or ▼ to select one of the options, then press ENTER.





for manual setting (forward one hour) ON: OFF: for manual setting (back one hour)

AUTO: for automatic setting (read EDS in the signal)

When you want to set the daylight saving time manually, on the first Sunday in April you set to "ON", and on the last Sunday in October you set to "OFF".

Press MENU repeatedly until the menu screen is cleared.

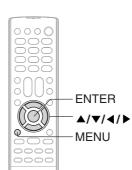


#### Notes:

- 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.

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# 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.

**EXAMPLE:** Setting the clock to "8:30 AM", 25th. (SAT) March, 2006.

Press MENU, then press ◀ or ▶ to select ☐ option.

MENU





Press ▲ or ▼ to select "CLOCK SET", then press ▶.





Press ◀ or ▶ to set the month, then press ▼.





Set the day, year and time as in step 3, then press ENTER.





After setting the clock, date and time starts functioning automatically.

8:30 AM SAT

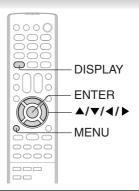
■ To make corrections any time during the process

Press ▲ or ▼ repeatedly until the item you want to change blinks, then set the item again.

- 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 ▶.



# Setting the language/ TV/VCR operation status



# Setting the language

This unit can display the on screen language in English, Spanish or French.

Press MENU, then press ◀ or ▶ to select properties.







Press ▲ or ▼ to select "LANGUAGE/IDIOMA/LANGUE", then press ▶.





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



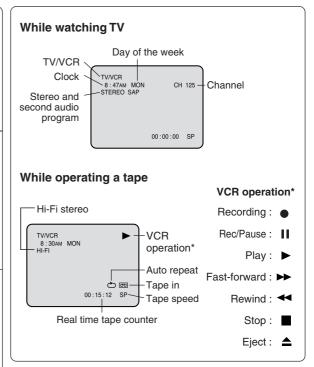


Press MENU repeatedly until the menu screen is cleared.

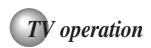


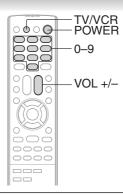
# TV/VCR operation status

Press **DISPLAY** to display the information on the screen. To cancel the display, press **DISPLAY** again.



#### TV operation





# TV operation

To turn on the unit, press POWER.

The Power indicator will light.

 Every time you turn on the TV, the unit starts from TV/VCR mode. When you use TV/VCR after DVD operation, press TV/VCR.





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





Set the TV/CABLE selection to the appropriate position 26.

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TV - VHF/UHF channels CABLE - Cable TV channels

Press Direct channel selection buttons (0–9) to select the channel.

#### TV mode direct channel selection

When the TV/CABLE selection is in the TV position, all channels can be instantly selected by using two buttons. (for example, to select channel

2, press "0", then "2". If you press only "2", channel selection will be delayed for a few seconds.) For channels 10 and above, press the 2 digits in order.



#### **CABLE** mode direct channel selection

When the TV/CABLE selection is in the CABLE position, channels can be selected as follows: TO SELECT CABLE TV CHANNELS:

1-9: Press "0" twice, then 1-9 as needed. Example, to select channel 2, press "002".

10-12: Press "0", then the remaining 2 digits. Example, to select channel 12, press "012".

13-99: Press the 2 digits in order. Example, to select channel 36, press "**36**".

100-125: Press the 3 digits in order. Example, to select channel 120, press "120".

NOTE FOR CHANNELS 1-12:

If only 1 or 2 buttons are pressed, the corresponding channel will be selected in 2 seconds.

TV	Cable TV
VHF	VHF
2-13	2-13
UHF	STD/HRC/IRC
14-69	14-36
	(A) (W)
	37-59
	(AA) (WW)
	60-85
	(AAA) (ZZZ)
	86-94
	(86) (94)
	95-99
	(A-5) (A-1)
	100-125
	(100) (125)
	01
	(5A)

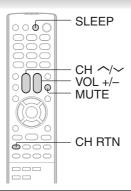
#### Notes:

- 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.



#### TV operation



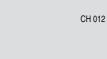


# TV operation

#### **■ CHANNEL UP/DOWN**

Press and release **CH**  $\curvearrowright$  or  $\leadsto$ . 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 **CH RTN**. Press **CH RTN** 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 appear briefly on the screen. The sound can be switched back on by pressing this button again or one of **VOL** +/-.







#### **■ SLEEP**

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**

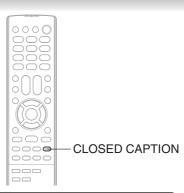
Insert a stereo headphones (not supplied) with a 1/8" mini plug into the PHONES jack on the front panel. If you connect headphones, the sound from TV speakers is muted.





#### 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 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.

# NOTICE OF POSSIBLE ADVERSE EFFECTS ON TV PICTURE DISPLAY

Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) patterns or images (including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, websites, and special formats that do not use the entire screen) can become permanently ingrained in the cathode ray tube(s) of the TV and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. See 4 for details.



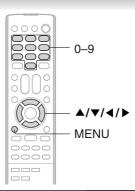
2/23/06, 1:47 PM

#### TV operation



# **To** memorize channels

This unit is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the 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.



# TV/CABLE selection







Press ▲ or ▼ to select "TV/CABLE".





Press ◀ or ▶ to select "TV" or "CABLE".

TV - VHF/UHF channels CABLE - Cable TV channels





Press MENU repeatedly until the menu screen is cleared.



### Cable TV chart

The chart below is typical of many cable system channel allocations.

	ber or		TV Cable	TV cha	annel				14 A	15 B	16 C	17 D	18 E	19 F	20 G	21 H	22
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
J	K	L	M	N	O	P	Q	R	S	T	U	V	W	AA	BB	CC	DD
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58
EE	FF	GG	HH		JJ	KK	LL	MM	NN	00	PP	QQ	RR	SS	TT	UU	VV
59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76
WW	AAA	BBB	CCC	DDD	EEE	FFF	GGG	HHH	III	JJJ	KKK	LLL	MMM	NNN	000	PPP	QQQ
77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94
RRR	SSS	TTT	UUU	VVV	WWW	XXX	YYY	ZZZ	86	87	88	89	90	91	92	93	94
95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112
A-5	A-4	A-3	A <b>-</b> 2	A-1	100	101	102	103	104	105	106	107	108	109	110	111	112
113 113	114 114	115 115	116 116	117 117	118 118	119 119	120 120	121 121	122 122	123 123	124 124	125 125	01 5A				

# **Automatic memory tuning**

Press ▲ or ▼ to select the "AUTO CH MEMORY", then press ▶.

The TV will begin memorizing all the channels available in your area.





# To ADD/DELETE channels

Press ▲ or ▼ to select "ADD/DELETE", then press ▶ .





Select the desired channel to be added or deleted using Direct channel selection buttons (0–9) or ▲/▼.





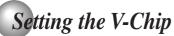
Press ◀ or ▶ to select "ADD" or "DELETE", whichever function you want to perform.





#### Note:

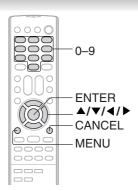
You cannot select e option if you set the channel to "LINE1" or "LINE2".



An age limitation can be set to forbid children to watch programs according to "TV RATING" and "MOVIE RATING" level set. To use the V-Chip function, you must register a password.

#### Notes:

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



# To register password

Press MENU, then press or to select option.







Press ▲ or ▼ to select "PASSWORD".





Enter the password (4 digits) using Number buttons (0–9), then press ENTER.

 If you put a wrong number, press CANCEL.





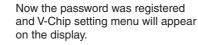
"\*" appears instead of the number.





Enter the same password again using Number buttons (0–9) for safety, then press ENTER.









# To change password

In the V-CHIP menu, press ▲ or ▼ to select "CHANGE PASSWORD", then press ▶.



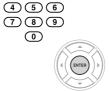


2 Enter the new password using Number buttons (0–9), then press ENTER.





Benter the same password again using Number buttons (0–9) for safety, then press ENTER.



123



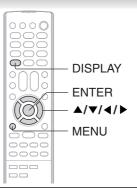
Press MENU repeatedly until the menu screen is cleared.











# To set the V-Chip

In the V-CHIP menu, press ▲ or ▼ to select "V-CHIP SET", then press ▶.





Press ▲ or ▼ to select "TV RATING", then press ◀ or ▶ to display the desired setting. After setting, press ENTER.

OFF : TV RATING is not set

TV-Y : All children

TV-Y7: 7 years old and above
TV-G: General audience
TV-PG: Parental guidance
TV-14: 14 years old and above
TV-MA: 17 years old and above





When you select TV-Y7, TV-PG, TV-14 or TV-MA, press **DISPLAY** to show the contained rating. Press **△**/▼/**◄**/▶ to select the desired item you want.



Press ▲ or ▼ to select "MOVIE RATING".





Press ◀ or ▶ to select desired rating.

After setting, press ENTER.





OFF : MOVIE RATING is not set

G : All ages

PG : Parental guidance
PG-13 : Parental guidance
less than 13 years old
R : Under 17 years old

Parental guidance suggested

NC-17: 17 years old and above

X : Adult only

Press ▲ or ▼ to select "V-CHIP".





Press ◀ or ▶ to display "ON".

Now your settings were set into the memory.





Press MENU repeatedly until the menu screen is cleared.



To use after the TV is protected

When the program applied to the V-Chip setting is received, enter the password, then press **ENTER**. Protection can be

#### Note:

The V-Chip function is activated only on programs that have the rating signal.

**28** 

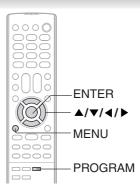
5W50101A [E]p27-32

28



# To set the on timer

This feature allows you to have the unit automatically turn on at a predetermined time. If you program the ON TIMER once, the unit will turn on the programmed day (daily/weekly) at the same time to the same channel.



# To set the on timer

**EXAMPLE:** Turning on the TV to channel 12 at 7:00 AM, MONDAY-FRIDAY.

Press MENU. Press ◀ or ▶ to select ☐ option.

You can also select ON/OFF TIMER

by pressing PROGRAM twice.





Press ▲ or ▼ to select "ON/OFF TIMER", then press ▶.





Press ▲ or ▼ to select "ON TIMER", then press ▶.





Press ◀ or ▶ to set the desired hour, then press ▼.





5 Set the desired minute, channel and daily or weekly timer date as in step 4.





Press ◀ or ▶ to select "SET", then press ENTER.

Now the ON TIMER is set.





Press MENU repeatedly until the menu screen is cleared.



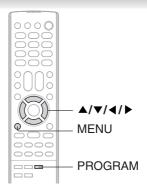
- The unit will automatically turn off approximately 1 hour later after the ON TIMER turns on. To continue watching the TV, press any button to cancel the one hour automatic shut off.
- To cancel the ON TIMER, follow above steps 1~5, then
  press ◀ or ▶ to select "CANCEL". Press MENU repeatedly
  until the menu screen is cleared.
- After setting the ON TIMER, "▶ OFF TIMER" will be highlighted. If you wish to set the OFF TIMER, press ▶ then follow the steps 4~6 on 30>.
- If you want to correct the digits while setting, press ▲ or ▼ until the item you want to correct, then press ◀ or ▶ to correct the desired setting.







This feature allows you to have the unit turn off automatically at a predetermined time. If you program the OFF TIMER once, the unit will automatically turn off at the same time everyday.



# To set the off timer

**EXAMPLE:** Turning off the TV at 11:30 PM.

Press MENU. Press ◀ or ▶ to select ☐ option.

You can also select ON/OFF TIMER
by pressing PROGRAM twice.







Press ▲ or ▼ to select "ON/OFF TIMER", then press ▶.





Press ▲ or ▼ to select "OFF TIMER", then press ▶.





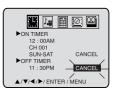
Press ◀ or ▶ to set the desired hour, then press ▼.





**5** Press **◄** or **▶** to set the desired minute, then press **▼**.





Press ◀ or ▶ to select "SET".

Now the OFF TIMER is set.





Press MENU repeatedly until the menu screen is cleared.



#### Notes:

- To cancel the OFF TIMER function:
  - To cancel OFF TIMER, follow above steps 1~5, press ◀ or
  - ▶ to select "CANCEL". Press **MENU** repeatedly until the menu screen is cleared.
- To confirm the ON/OFF TIMER:

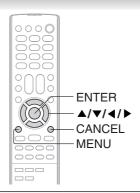
Press **PROGRAM** twice to indicate the programs on the screen.



# Picture control adjustment/ Adjusting the picture preference

Picture controls are factory preset but you can adjust them individually as follows:

And also you can select four picture modes—Standard, Sports, Movie, and Memory—as described in the following table:



# Picture control adjustment

Press MENU, then press ◀ or ▶ to select Importion.

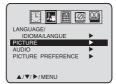






Press ▲ or ▼ to select "PICTURE", then press ►.





Press ▲ or ▼ to select the item you want to adjust, then press ◀ or ▶ to adjust the setting.





Selection	<b>◄</b> Pre	ssing <b>&gt;</b>
BRIGHTNESS	darker	lighter
CONTRAST	lower	higher
COLOR	paler	deeper
TINT	reddish	greenish
SHARPNESS	softer	sharper

#### Note:

The CONTRAST default setting is set to maximum (+32) at the factory.

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



■ To return all adjustments to the factory preset levels

Press CANCEL while making picture adjustments.

# Adjusting the picture preference

Press MENU, then press ◀ or ▶ to select ( ) option.







Press ▲ or ▼ to select "PICTURE PREFERENCE", then press ▶.





Press ▲ or ▼ to select the desired picture mode, then press ENTER.





Mode	Picture quality
STANDARD SPORTS MOVIE MEMORY	Standard picture quality (factory-set) Bright and dynamic picture (factory-set) Movie-like picture setting (factory-set) Your personal preferences (set by you; see "Picture control adjustment" as left)

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

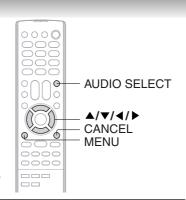




# Sound control adjustment/ Stereo and Second Audio Program (SAP)

Sound controls are factory preset but you can adjust them individually as follows: The unit is equipped with a feature known as multi-channel TV sound or MTS. MTS broadcasts greatly enhance TV viewing by bringing you programs with high fidelity stereo sound.

MTS also provides an extra channel called the Second Audio Program or SAP which broadcasters can use to transmit a second language for bilingual transmission or for other purposes.



# Sound control adjustment

Press MENU and then press ◀ or ▶ to select 
a option.







Press ▲ or ▼ to select "AUDIO", then press ▶





Press ▲ or ▼ to select the item you want to adjust, then press ◀ or ▶ to adjust the setting.





BASS: Press ◀ or ▶ to adjust the bass sound.

TREBLE: Press ◀ or ▶ to adjust the treble sound.

BALANCE: Press ◀ or ▶ to obtain an equal sound level

from both speakers.

SURROUND: Press ◀ or ▶ to select "ON" or "OFF"

ON: Press of P to select ON or OFF.

The dynamic presence and sound created offers

a thoroughly enjoyable listening experience. **OFF:** Normal sound.

**STABLE SOUND:** Press ◀ or ▶ to select "ON" or "OFF".

ON: The StableSound® feature limits the highest

volume level to prevent extreme changes in volume when the signal source is changed.

OFF: Normal sound.

SAP: Press ◀ or ▶ to select "ON" or "OFF".

ON: SAP is available.
OFF: SAP is not available.

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



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

Press CANCEL while making sound adjustments.

# Listening to stereo sound

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

- When mono broadcasting is received, no indication is displayed.
- If the broadcast signal is not strong enough or clear stereo sound is not available, press AUDIO SELECT to change to mono sound. The noise should be eliminated. Press it again to return to the stereo sound.



# Listening to SAP (Second Audio Program)

When the TV is turned on or a channel selection is made, "SAP" will appear on the screen. This means that the Second Audio Program broadcasting is available.



# To select desired sound

Press AUDIO SELECT to select the desired sound.





Broadcast	SAP setting	Audio display
MONO	OFF	MONO
	ON	MONO
STEREO	OFF	STEREO↔MONO
	ON	STEREO↔MONO
MONO+SAP	OFF	MONO
	ON	SAP
STEREO+SAP	OFF	STEREO↔MONO
	ON	SAP

#### Playback (VCR)



Use only video cassette tapes marked VHS.

# 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.

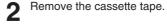
### Automatic playback

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

# **Unloading**

Press STOP/EJECT on the front panel or remote control.







### 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.

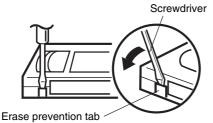
#### Notes:

- 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.

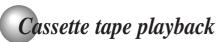


# Tape speed and maximum recording time

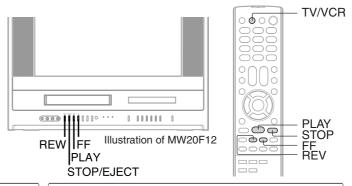
Tona Chand		\	/ideo cassette tape	e	
Tape Speed	T-160	T-120	T-90	T-60	T-30
SP (Standard Play)	2-2/3 hours	2 hours	1-1/2 hours	1 hour	30 minutes
SLP (Super Long Play)	8 hours	6 hours	4-1/2 hours	3 hours	1-1/2 hours



### Playback (VCR)



To play a prerecorded tape.



# **Playback**

### Load a pre-recorded tape:

(When loading a cassette tape without the erase prevention tab, playback will start automatically).



## ★ To start playback:

Press **PLAY** on the front panel or on the remote.

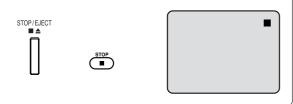
Playback will start. " ▶ " will appear on the screen for about 4 seconds.



### To stop playback:

Press **STOP/EJECT** once on the front panel or press **STOP** on the remote. The tape will stop but remain fully loaded and ready to play.

" will appear on the screen for about 4 seconds.



#### Notes:

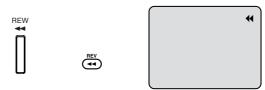
- If you play a prerecorded tape after the DVD playback, you must set the unit to TV/VCR mode using the TV/VCR button.
- This unit selects the playback tape speed SP or SLP automatically.
- When you select the TV/VCR mode during DVD playback, DVD playback will change to the still mode, and after 5 minutes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

# Rewind or forward the tape

Stop the playback or recording with STOP.

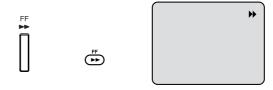
#### To rewind the tape:

Press **REW** on the front panel or press **REV** on the remote control.



#### To forward the tape:

Press **FF** on the front panel or press **FF** on the remote control.

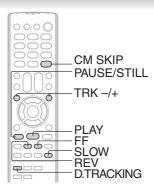


To stop the tape-winding, press **STOP**. To switch to play-back directly (without **STOP**), press **PLAY**.

#### ■ Forward/Reverse picture search mode

When the tape is being winded, you can switch to picture search mode (see 35). To do this, press REV or FF again and hold it down. The unit will resume the tape winding as soon as the button is released.





### Picture search

#### Reverse picture search function

Press REV once or twice during the playback.

#### Forward picture search function

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

#### **SPEED SEARCH TIMES**

TAPE SPEED	PICTURE SEARCH SPEED					
IAPE 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.

#### ■ 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.



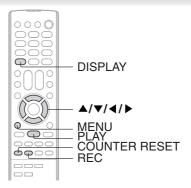


#### Notes:

- "SP" is more appropriate as less noise appeared during search and still playback for tape recorded in SP.
- The audio output is muted during PICTURE 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.

-





# Repeat playback

The entire video tape will be played until its end. The tape will automatically rewind to the beginning and the playback will be repeated.

Press MENU, then press ◀ or ▶ to select ☐ option.







Press ▲ or ▼ to select "AUTO REPEAT".





Press ◀ or ▶ to select "ON" or "OFF".

If "ON" is selected, the playback will be repeated endlessly.





Press MENU repeatedly until the menu screen is cleared.

MENU SETUP If you press **DISPLAY**, "" will appear on the screen [22).

To start the playback, press PLAY.

PLAY ►

The playback will be repeated endlessly.

### ■ To cancel repeat mode:

In step 3 above, press ◀ or ▶ 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.

# Using the real time tape counter

The on-screen real time tape counter shows the tape running time in hours, minutes and seconds. You can easily determine how long the tape has been running or how much time is left on the tape.

Press DISPLAY.

DISPLAY



Press COUNTER RESET to set the counter to "00:00:00".

ANGLE



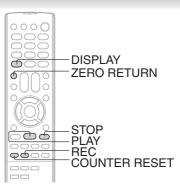
Begin Playback or Recording to start the tape, the counter will display the elapsed time.

PLAY



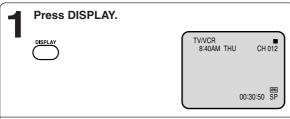
When you wish to make the counter disappear, press DISPLAY once again.

DISPLAY



### **Zero return function**

The zero return function provides a convenient method of rapidly 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.



Before playback or recording, press COUNTER RESET to set the counter to "00:00:00".



Begin playback or recording.





Press STOP.





Press ZERO RETURN. The tape will rewind and automatically stop at the "00:00:00" position.





### 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, the unit need to check and clear by the qualified service personnel.



Good Picture



**Snowy Picture** 

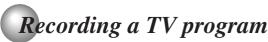
### ■ Video head cleaning

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.

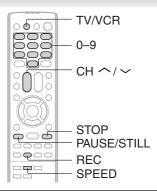
- DO NOT ATTEMPT TO CLEAN THE VIDEO HEADS OR SERVICE THE UNIT BY REMOVING THE REAR COVER.
- Video heads may eventually wear out and should be replaced when they fail to produce clear pictures.
- To help prevent video head clogging, use only good quality VHS tapes. Discard worn out tapes.







Recording and viewing the same TV program.



### Recording a TV program

Load a cassette tape with the erase prevention tab intact.



The unit will automatically turn on.

Press SPEED to select the desired tape speed SP or SLP.

The tape counter and SP or SLP will appear on the screen for about 4 seconds.



00:00:00 SP

Select "TV" or "CABLE" to the appropriate position [26].

TV - VHF/UHF channels CABLE - Cable TV channels

Press Direct channel selection (0–9) buttons or CH ∧/∨ to select the channel to be recorded.







Press REC.

" • " will appear on the screen for about 4 seconds and the REC/OTR indicator on the front panel will light.







### 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.

### To stop recording

### Press STOP to stop recording.

" will appear on screen for about 4 seconds.



# To stop recording temporarily

Press PAUSE/STILL to avoid recording unwanted material.

"II" will appear on the screen and the REC/OTR indicator will blink on and off. Press PAUSE/STILL or REC to continue the recording.







### Note:

### ■ Auto Rewind feature

This VCR will automatically rewind the tape when the tape has ended (except during OTR and timer recording). It will also eject the tape.

### Note:

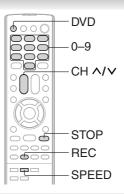
If the erase prevention tab is removed, the tape will eject when REC button is pressed for recording.

The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.





The One-touch timer recording feature provides a simple and convenient way to make a timed recording.



## One-touch timer recording (OTR)

**Example:** One-touch timer recording for 30 minutes.

 Load a cassette tape with the erase prevention tab intact.



The unit will automatically turn on.

Press SPEED to select the desired tape speed SP or SLP.

The tape counter and SP or SLP will appear on the screen for about 4 seconds.





Set "TV" or "CABLE" option to the appropriate position [26].

TV - VHF/UHF channels CABLE - Cable TV channels

Press Direct channel selection (0–9) buttons or CH ^/v to select the channel to be recorded.



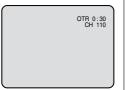




Press REC to begin recording. Press the button again to stop recording after 30 minutes. Each additional press of REC will increase recording time as shown below, up to a maximum of 6 hours. "OTR" will appear on the screen.

Press	Recording time	Press	Recording time
once	NORMAL REC	6 times	3:00
twice	0:30	7 times	4:00
3 times	1:00	8 times	5:00
4 times	1:30	9 times	6:00
5 times	2:00	10 times	NORMAL REC





### To cancel OTR

Press STOP





" will appear on screen for about 4 seconds.

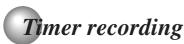
### Notes:

- If you wish to watch the DVD playback during the recording or the OTR, press DVD to change to DVD mode and perform the DVD playback 44.
- The channel cannot be changed during recording.

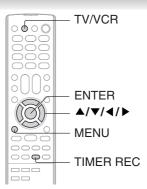
The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs and other materials, is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and/or criminal liability.



### Recording (VCR)



Timer recording can be programmed on-screen with the remote control. The built-in timer allows automatic unattended recording of up to 8 programs within 1 month.



### Timer recording

### Preparation:

- Press TV/VCR to select the TV/VCR mode.
- Load a cassette tape with the erase prevention tab
- Check the time and date are correct [21).

#### **Example:**

Program a timer recording for 23rd day, channel 125 (Cable TV), 7:00 - 9:30 PM (Tape speed : SLP).

Press MENU, then press ◀ or ▶ to select □ option.







Press ▲ or ▼ to select "TIMER REC SET", then press >.





Press ▲ or ▼ to select one of the program line, then press ENTER.





Press ◀ or ▶ to select the date, then press ▼.





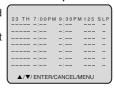
Set the start time, end time, channel and tape speed as in step 4. Then press ENTER.





#### Notes:

- Press ▲ to move cursor backward for correction.
- · To record from external source set the channel to "L1" or "L2".



- To set the timer for another program, repeat steps 3 to 5 to set another program.
- Press TIMER REC. The TIMER REC indicator will light. The Timer is programed, when the programed time is reached, the recording is automatically started.





TIMER REC To cancel timer recording, press the button again and TIMER REC indicator will go out.

### Notes:

- The VCR section cannot be used while the TIMER REC indicator is lit. If you want to use the VCR operation, press TIMER REC to deactivate the timer.
- When the clock is not set, you cannot select "TIMER REC". In this case, set the clock (see pages 19~21).
- After a power failure or disconnection of the power plug, all 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 lacktriangle or lacktriangleuntil the item you want to correct, then press ◀ or ▶ to correct the desired setting.
- If programming is performed without a tape in the unit, or with a tape without an erase prevention tab, the Timer Recording is not possible. If a tape without an erase prevention tab is in the unit, the tape will be ejected.

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### To set daily/weekly timer

Weekly (e.g. WKL-TUE: each Tuesday) or daily (e.g. MON-SAT: Monday to Saturday) Timer recording

Follow the procedure of timer recording on page 40. At picture 4, press ◀ or ▶ repeatedly until the desired setting appears. Then press **ENTER**.

When you press ◀ repeatedly, the indicator at DATE will change as follows, in this case the day is Friday.

The current day (Friday) 
SUN-SAT (Sunday to Saturday)

MON-SAT (Monday to Saturday)

MON-FRI (Monday to Friday)

WKL-WED

WKL-WED

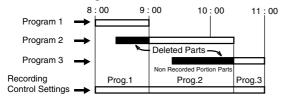
(Weekly Wednesday)



### 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 in the diagram below.

If you set up many timer recording programs at the same start time, the priority will be the top program in the timer recording list.



### Notes:

- 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.

### To confirm the settings

Press PROGRAM once. The TV screen displays the timer program list. Press PROGRAM again. The TV screen displays the ON/OFF timer setting.



Press **PROGRAM** 3 times. The menu screen is cleared.





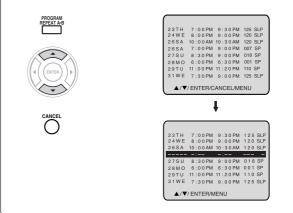
CANCEL

**PROGRAM** 

### To cancel a program

Press PROGRAM once. The TV screen displays the timer program list.

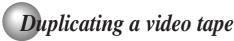
Press ▲ or ▼ to select the unnecessary program, and press CANCEL to cancel the program.



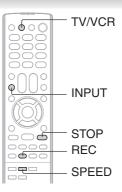
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**—** 





If you connect the unit to another VCR or Camcorder, you can duplicate a previously recorded tape. Make all connections before turning on the power.



### **Duplicating a video tape**

### Preparation:

- Press TV/VCR to select the TV/VCR mode.
- Load a cassette tape with the erase prevention tab intact.
- Load a previously recorded tape into the playback VCR or Camcorder.

### Press SPEED to select the desired tape speed SP or SLP.



It is recommended to set the Speed to the SP mode on the recording VCR for best results.

Press INPUT once or twice to select AUDIO/ VIDEO input position.

"LINE1" or "LINE2" will appear on the





LINE1: on the rear panel LINE2: on the front panel

Press REC.



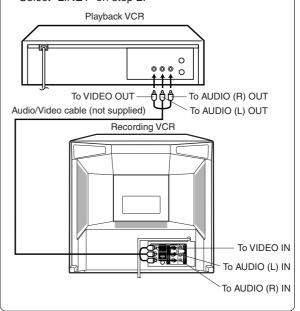
Press PLAY on the playback VCR or camcorder.

Press STOP when you finish duplicating.

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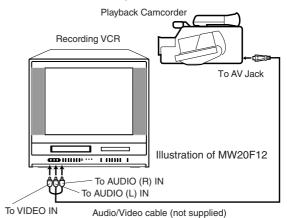
### Connection with second video recorder

Select "LINE1" on step 2.



### **Connection with Camcorder**

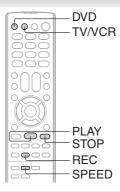
· Select "LINE2" on step 2.



For duplicating a previously recorded tape from a camcorder, follow the camcorder manufacturer's instructions. A typical camcorder dubbing hookup is 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**

### Preparation:

- Press TV/VCR to select the TV/VCR mode.
- Load a cassette tape with the erase prevention tab intact.
- Load a DVD/CD disc.
- Press SPEED to select the desired tape speed SP or SLP.



Press DVD to select the DVD mode.



Press PLAY to start playback.



Press REC to start recording.



The unit will change to the VCR mode automatically and the playback picture or sound will be duplicated on the video cassette tape.

Press STOP when you finish recording.



If you wish to stop a DVD/CD disc, press **DVD** to change the DVD mode, then press **STOP**.

#### Notes:

- You may not record the beginning of the disc, so start to playback the disc, then start to record.
- You cannot record the disc with copy guard function. "DISC IS COPY PROTECTED" will show up on the TV screen for approx. 4 seconds.

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2/22/06, 6:42 PM



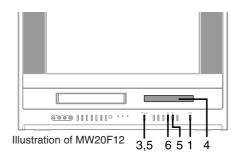
### Basic playback (DVD)

# Playing a disc

This section shows you the basics on how to play a disc.

#### **CAUTION**

Keep your fingers well clear of the disc tray as it is closing. Neglecting to do so may cause serious personal injury.





## Basic playback

### Preparations:

- Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet. If the AC cord plug is plugged in for the first time, you need to set "Starting setup" 18).
- · When connecting to other equipment, turn power off.

### Press POWER on the unit or on the remote control to turn on the unit.

The Power indicator will light.

- · Every time you press POWER, the unit starts from
- · When using an amplifier, switch on the amplifier.





### Press DVD to select DVD mode.

The DVD startup screen will appear on the screen. "Reading" display will change to "No Disc". (If DVD disc

has already loaded, playback will start automatically.)





### Press OPEN/CLOSE.

The disc tray opens.





4

### Place the disc on the disc tray.



- There are two different disc sizes. Place the disc in the correct guide on the disc tray. If the disc is out of the guide, it may damage the disc and cause the unit
- Do not place a disc which is unplayable on the disc tray.

## Press OPEN/CLOSE or PLAY.

OPEN/CLOSE OR The disc tray closes automatically. On the TV-screen, "≜" changes to "Reading" and then playback commences.





• A menu screen will appear on the TV screen, if the disc has a menu feature. Press **▲**/**▼** or **◄**/**▶** to select title, then press **ENTER**. Title is selected and play commences.

### Press STOP to end playback.

### ■ Resuming facility

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

### ■ To start playback in the stop mode Press PLAY.



### If the unit does not operate properly:

Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.



### ■ 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. 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.

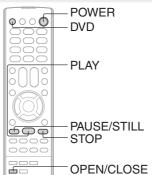


The @ conson the heading bar show the playable discs for the function described under that heading.

(IVD): You can use this function with DVD video discs.

voo : You can use this function with Video CDs.

② : You can use this function with Audio CDs and CD-R/RW CDs.



### ■ To pause playback (still mode)

Press PAUSE/STILL during playback.



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

 The sound is muted during still mode.

### ■ To stop playback Press STOP.



### ■ To remove the disc Press OPEN/CLOSE.



Remove the disc after the disc tray opens completely.



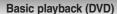
Be sure to press **OPEN/CLOSE** to close the disc tray after you remove the disc.



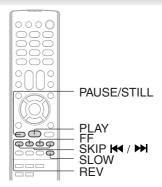
- If a non-compatible disc is loaded, "Incorrect Disc", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (see 3 and 57).
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (i.e. the wrong way up) and press **OPEN/CLOSE** or **PLAY** on the unit, "Reading" will appear on the display for a few minutes 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 **OPEN/CLOSE** 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 POWER on your remote control once the movie is completed.
- There may be a slight delay between the button is pressed and the function activates.











## Playing in fast reverse or fast forward directions

### Press REV or FF during playback.





**REV**: Fast reverse playback Fast forward playback

Each time you press REV or FF, the playback speed changes.

### ■ To resume normal playback

Press PLAY.



#### Notes:

- The unit mutes sound and subtitles during reverse and forward scan of DVD/VCD video discs. However, the unit plays sound during fast forward or fast reverse play of audio
- The playback speed may differ depending on the disc.

## Playing frame by frame

### Press PAUSE/STILL during still playback.



Each time you press PAUSE/STILL, the picture advances one frame.

### ■ To resume normal playback

Press PLAY.



### Note:

The sound is muted during frame by frame playback.

## **Playing in slow-motion**

### Press SLOW I▶ during playback.



Each time you press SLOW I▶, the slow-motion speed changes.

### ■ To resume normal playback Press PLAY.



### Note:

The sound is muted during slow-motion playback.

## Locating a chapter or track

### Press SKIP I◄◄ or ▶►I 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.

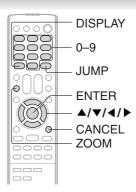
When you press twice in quick successions, playback starts from the beginning of the preceding chapter or track.

### Note:

Press and hold **SKIP** on the unit during playback to play forward or in reverse. Afterwards, each time you press and hold **SKIP**, the playback speed will change.

- A prohibition symbol " 뷀 " 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 cannot 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.

# Zooming/Locating desired scene



### **Zooming**

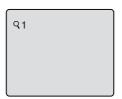
This unit will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

Press ZOOM during playback.

ZOOM

The center part of the image will be zoomed in.

Each press of **ZOOM** will change the ZOOM  $Q_1$  (x 1.3),  $Q_2$  (x 1.5) and  $Q_3$  (x 2.0).



Press ▲/▼/◀/▶ to view a different part of the frame.



You may move the frame from the center position to UP, DOWN, LEFT or RIGHT direction.

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



### Notes:

- You can select the Pause, Slow or Search playback in the zoom mode.
- Some discs may not respond to zoom feature.

## Locating desired scene

Use the title, chapter and time recorded on the DVD disc to locate the desired point to play back. In the case of VCD/CD disc, time and track are used to locate the desired point to play back.

To check the title, chapter and time, press DISPLAY.

Press JUMP during playback or stop mode.





- "Time" only works in playback or resume stop mode.
- Press ◀ or ▶ to select the "☐ Time", "T Title/Track" or "C Chapter".





Press Number buttons (0–9) to change the number.

1 2 3 4 5 6 7 8 9

0





- If you input a wrong number, press **CANCEL**.
- Refer to the package supplied with the disc to check the numbers.

## Press ENTER. Playback starts.



- When you change the title, playback starts from Chapter 1 of the selected title.
- Some discs may not work in the above operation.

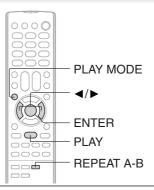
### Note:

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

Advanced playback (DVD)

### Advanced playback (DVD)

# Repeat playback/A-B Repeat playback



### Repeat playback

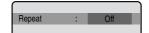
Press PLAY MODE during playback or stop mode.



[DVD] ◄/► to select "Chapter" or "Title". **Press** 



The unit automatically starts repeat playback after finishing the current title or chapter.



[Audio CD, Video CD] Press ▶ to select "Repeat" and then press ENTER to select "Track" or "All".



The unit automatically starts repeat playback after finishing the current track.



• If you set the repeat mode during stop mode, press PLAY to start Repeat playback.

Press PLAY MODE again to clear the screen.

### ■ To resume normal playback

Select Repeat: "Off" in step 2.

### Notes:

- · Some discs may not work with the repeat operation.
- · In case of Video CD with PBC, repeat functions are prohibited during playback.

## A-B Repeat playback

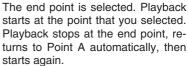
A-B repeat playback allows you to repeat material between two selected points.

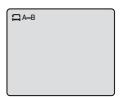
Press REPEAT A-B during playback.

The start point is selected.



Press REPEAT A-B again.





### ■ To resume normal playback

Press REPEAT A-B again.



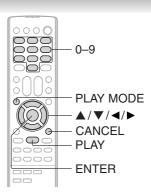
Off" appears on the screen.

### Notes:

- In A-B Repeat mode, subtitles near the A or B locations may not be displayed.
- You cannot set the A-B Repeat for the scenes that include multiple angles.
- A-B Repeat playback does not work when Repeat playback is activated.
- You may not be able to set A-B Repeat, during certain scenes
- A-B Repeat does not work with an interactive DVD.
- A-B Repeat is prohibited when PBC is on.



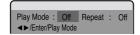
You can arrange the playback order of tracks or files on the disc. And also the unit selects tracks or files at random and playback them. These feature works for Audio CD and Video CD.



## **Program playback**

Press PLAY MODE in the stop mode.





Press or to select Play Mode, then press ENTER to select "Program".





Press ▲/▼ / ◀/▶ to select the programming position. Use Number buttons (0–9) to input the Track or file numbers.



- To program others, repeat step 3.
- If you input a wrong number, press CANCEL.







# Press ▲/▼/◀/▶ to select "Program Playback" and press ENTER.

The programs you selected will start to playback in the order.

 To resume normal playback, select Play Mode: "Off" in step 2.





- To change the program
- In the program mode, press ▲/▼/◄ /► to select the track number.
- 2. Press **Number buttons (0–9)** to select the track number to be replaced.
- To clear the program one by one In the program mode, press ▲/▼/◄/► to select the track number. Then press CANCEL.
- To clear all the programs In the program mode, press ▲/▼/◄/► to select "Clear". Then press ENTER.

### Note:

The program is canceled when you open the disc tray or turn the power off.

## Random playback

Press PLAY MODE during playback or stop mode.



Press ◀/▶ to select Play Mode, then press ENTER to select "Random".





Press PLAY.



The Random Playback will start.

- If you set "Random" during playback mode, Random playback will begin after the track that is currently being played has ended.
- To resume normal playback, select Play Mode: "Off" in step 2.

### Note:

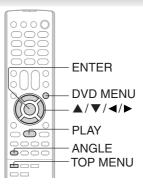
In playing back the Video CD with PBC, you cannot set Random playback.







2 1/9



### 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.

COUNTER RESET THE CUITTENT angle will appear.

N D

Press ANGLE repeatedly until the desired angle is selected.



#### 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.

D.TRACKING TOP HENU

Title menu appears on the screen.

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



The playback of the selected title will start.



### Note:

Depending on the DVD, you may not be able to select the title. Depending on the DVD, a "title menu" may simply be called a "menu" or "title" in the instructions supplied with the disc.

### 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.

Press DVD MENU during playback.

The DVD menu appears on the screen.

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

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



### Press ENTER.

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

### Note:

Depending on the DVD, you may not be able to resume playback from the scene point when you pressed **DVD MENU**.

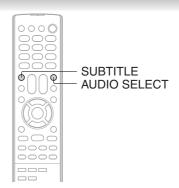
50

5W50101A [E]p48-52

0

2/22/06, 6:43 PM

# Changing soundtrack language/ Subtitles



### **88 Changing soundtrack language**

You can select the language when you play a multilingual disc.

Press AUDIO SELECT during playback. The current soundtrack language will appear.

Press AUDIO SELECT repeatedly until the desired language is selected.

5--- 2/8 Fra □□ D

1/8 Eng DO D

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

### ■ In case of Video CD playback

Audio type changes as follows each time you press **AUDIO SELECT.** 



### Notes:

- If the desired language is not heard after pressing the button several times, the language is not recorded on the disc.
- Changing soundtrack language is canceled 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.

### Subtitles

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

Press SUBTITLE repeatedly during playback until your desired language appears.

.... 1/8 Eng

To turn off the subtitle, press SUBTITLE until "Off" appears.



Off

The on screen display will disappear after a few seconds.

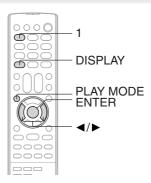
### Notes:

- · Depending on the DVD, you may not be able to change subtitles, or to turn subtitles on or off.
- While playing a DVD, the subtitle may change when you open or close the disc tray.
- In some cases, a selected subtitle language may not be changed immediately.

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### Advanced playback (DVD)

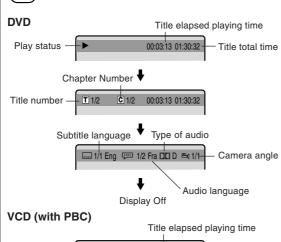


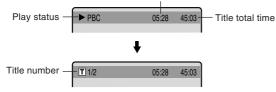


## Disc status

Press DISPLAY during playback. The status display of the disc will appear on the screen in order like the figure below.







### **Audio CD**



Display Off

• When you play a CD disc, the status display will appear and remain on the screen.

### To turn off the PBC

- Press PLAY MODE in the stop mode.
- Press **◄/**▶ to select Play Mode, then press ENTER to select "Off".





Press PLAY MODE again to clear the screen .

### ■ To turn on the PBC

Select Play Mode: "PBC" in step 2.

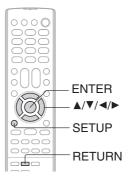
You can also turn off the PBC by pressing number button 1 and  $\ensuremath{\textbf{ENTER}}$  in the stop mode.

**52** 5W50101A [E]p48-52



# Customizing the function settings

You can change the default settings to customize performance to your preference.



# Setting procedure

Press SETUP during stop mode.

The following on-screen display appears.



To clear SETUP screen, press SETUP or RETURN.





Press ◀ or ▶ to select the desired section, then **Z** press ▼ or ENTER.



Press ▲ or ▼ to select the desired option.

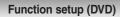


Change the selection using ◀ or ▶, by referring to the corresponding pages 55~57.



- · Repeat steps 3 and 4 to change other settings.
- To select another operation, go back to step 2 by pressing A repeatedly.

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# Customizing the function settings (Continued)

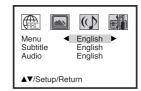
## Setting details

Section	Option	Details	Page
(ABC)	Menu Subtitle Audio	To select the language of "Menu", "Subtitle" and "Audio" if more than one language are available on the disc.	55
	TV Screen	To select a picture size according to the aspect ratio of your TV.	55
	Display	To turn On or Off the operational status display on the screen.	55
	Picture Mode	To select a preferred picture mode from "Video", "Film" or "Auto".	56
	DRC	To select On or Off for DRC (Dynamic Range Control).	56
	Password	Input 4-digit password to set the parental level.	
	Parental	To select a preferred parental level for the parental setting.	57









### ■ Menu, Subtitle, Audio

You can select the language of "Menu", "Subtitle" and "Audio" if more than one languages are recorded onto the disc.

### English, Français, Espanol:

The selected language will be heard or seen.

Other language can be selected (see the "Language code list" 59).

### Original: (Audio)

The unit will select the first-priority language of each disc.

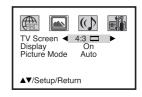
### Off: (Subtitle)

Subtitles do not appear.

### Notes:

- If the selected language is not recorded on the disc, the first-priority language is selected.
- If you want to change the OSD language, you can perform it by TV MENU [22).





### ■ TV Screen

You have the following screen sizes to choose from:

### 4:3 Letter box:

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

### 4:3 Pan scan:

It displays the wide picture on the whole screen with left and right edges automatically cut off.

Press OPEN/CLOSE to view in the selected screen size.

If the DVD disc is not formatted in the pan & scan style, it displays 4:3 style.

### Display

On screen display can be switched on or off when you press the buttons.

> On: On screen displays appear when you press the buttons (factory setting).

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



5W50101A [E]p53-58 2/22/06, 6:43 PM

# Customizing the function settings (Continued)

### **Setting details**

#### **■** Picture Mode

There are two types of source content in pictures recorded in DVD video discs: film content (pictures recorded from films at 24 frames per second) and video content (video signals recorded at 30 frames per second). Make this selection according to the type of content being viewed.

Auto: Select this position normally.

The DVD player automatically detects source content, film or video, of playback source, and converts that signal in the progressive output format in an appropriate method.

Film: The DVD player converts film content pictures

in the progressive output format appropriately. Suitable for playback of film content pictures. The progressive output feature will be most effective under this selection.

**Video:** The DVD player filters video signal, and converts it in the progressive output format

appropriately.

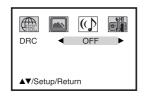
Suitable for playback of video content

pictures.

### Note:

Depending on the disc, pictures may be cut off or doubled. In this case, select "Video".





### **■** DRC

DRC (Dynamic Range Control) enables you to control the dynamic range so as to achieve a suitable sound for your equipment.

On: Loud sound such as explosion or similar is toned down slightly when played back. This makes it suitable for when it is connected to a stereo.

Off: It plays back at the recording level on the

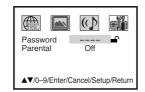
### Notes:

- This function works only during playback of Dolby Digital recorded discs
- The level of Dynamic Range Reduction may differ depending on DVD video disc.









### Parental control setting

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

- 1) Press ▲ or ▼ to select "Parental", then press ◀ or ▶ until the level you require appears.
  - Level Off: The parental control setting does not function.
  - I evel 8: All DVD software can be played back.
  - DVD software for adults cannot be • Level 1: played back.

Select from the level 1 to level 8. The limitation will be more severe as the level number is lower.

- Press ▲ or ▼ to select "Password". Press Number buttons (0-9) to input a 4-digit password. Be sure to remember this number!
  - If you input a wrong number, press CANCEL.
- 3) Press **ENTER** to store the password. Note: Now the rating is locked and the setting can not be changed unless you enter the correct pass word.
- 4) Press OPEN/CLOSE to activate Parental control setting. (See "Temporary disabling of rating level by DVD disc" 58).)

### Notes:

- Depending on the discs, the unit cannot limit playback.
- Some discs may not be encoded with specific rating level information though its disc jacket says "adult." For those discs, the age restriction will not work.

### ■ To change the parental level

- 1) Press ▲ or ▼ to select "Password".
- 2) 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.
- 2. Remove the disc.
- 3. Press OPEN/CLOSE again to close the disc tray. "No Disc" appears on the screen.
- 4. Press and hold **STOP** on the front panel, and at the same time press 7 on the remote control until "PASSWORD CLEAR" appears on the screen.
- 5. Enter a new password again.

If each setup  $\boxed{55}$ ~ $\boxed{57}$  has been completed, the unit can always be worked under the same conditions (especially with DVD discs).

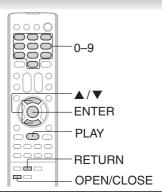
Each setup will be retained in the memory even if you turn the power off.



## Temporary disabling of rating level by DVD disc

Depending on the DVD disc, the disc may try to temporarily cancel the rating level that you have set.

It is up to you to decide whether to cancel the rating level or not.



### **∞** Temporary disabling of rating level by DVD disc

Load a DVD disc and press PLAY or OPEN/ CLOSE on the unit 28.



If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen will change, depending on which disc is played. If you select "YES" with the ENTER key, "Your disc exceeds the parental control level#." screen will then appear.



Your disc exceeds
the parental control level#.

Parental Control Level
Cancel Picture

▲▼/Enter/Return

If you wish to cancel the set rating level temporarily, select "Parental Control Level" with ▲ or ▼, then press ENTER. If the 4-digit password at step 2 on page 57 has been set, the password entering screen will appear as shown in step 4. Alternatively, if the password has not been set, playback will commence. If you don't know (or have forgotten) the password, select "Cancel Picture".

The setting screen will disappear. Press OPEN/ CLOSE to remove the disc.



DPEN/CLOS

Enter the password with Number buttons (0–9). Then press ENTER.

To exit from the entry, press RETURN.



1 2 3 4 5 6 7 8 9

Please enter the 4 - digit password

\*\*\*\*

Enter/0 – 9/Cancel/Return



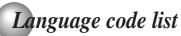
Playback will commence if the entered password was correct.

### Note:

This temporary cancellation of rating level will be kept until the disc is ejected.

When the disc is ejected, the original rating level will be set again automatically.





Enter the appropriate code number for the initial settings "Menu", "Subtitle" and/or "Audio" 55).

Language Nam	ne 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	a 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-Romano	ce2823	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



### Others



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

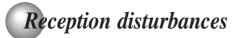
SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS	PAGE	
POWER				
No power.	The AC power cord is not connected.	Connect the AC power cord to the AC outlet.	5	
Although the power is on, the	Cassette or disc is not inserted.	Insert a video cassette or disc.	33, 44	
unit does not operate.	The TIMER REC button is pressed.  Press the TIMER REC button to car timer recording.		40	
TV BROADCAST RECEP	TION			
	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 disturbance.	62	
	Antenna (CABLE) connector is not	Check CABLE connection or VHF/UHF	16	
	connected or possible local interference.	antenna, reposition or rotate antenna.	13, 14	
	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 disturbance.	62	
	Antenna (CABLE) connector is not	Check CABLE connection or VHF/UHF	40.11	
	connected or possible local interference.	antenna, reposition or rotate antenna.	13, 14	
	TV station experiencing problems.	Try another channel.	23	
Picture wobbles or drifts.	Antenna (CABLE) connector is not	Check CABLE connection or VHF/UHF	13, 14	
ricture wobbles of drifts.	connected or possible local interference.	antenna, reposition or rotate antenna.		
	Cable TV channel is scrambled.	Try another channel.	23	
	CABLE connector is not connected.	Check all CABLE connections.	14	
No CATV reception.	TV/CABLE selection is set to the TV	Set the selection to the CABLE	26	
No OAI V ICCOPTION.	position.	position.	20	
	Cable TV service interrupted.	Contact your Cable TV company.	14	
No reception above	TV/CABLE selection is not set to the	Make sure selection is in the	26	
channel 13.	appropriate position.	appropriate position.	26	
onarmer ro.	UHF antenna is not connected.	Check UHF antenna.	13	
	TV station experiencing problems.	Try another channel.	23	
	Antenna (CABLE) connector is not	Check CABLE connection or VHF/UHF	13, 14	
	connected or possible local interference.	antenna, reposition or rotate antenna.		
Poor or no sound.	Possible local interference.	Check for source of reception disturbance.	62	
	The MUTE button is pressed.	Press the MUTE button to cancel mute function.	24	
TV shuts off.	TV station stopped broadcasting.	Tune new channel.	23	
i v Siluto oli.	Sleep timer is set.	Set Sleep Timer to "0".	24	
	TV station experiencing problems or	Try another channel.	23	
	program tuned is not closed captions.			
Closed caption is not activated.	TV signal is weak.	Check CABLE connection of VHF/UHF antenna, reposition or rotate antenna.	13, 14	
aonvaioa.	The CLOSED CAPTION button is not	Press the CLOSED CAPTION button	<del>                                     </del>	
	pressed.	to turn on the closed caption.	25	
	procedu.	to tarri on the closed caption.		



SYMPTOMS	CAUSE	POSSIBLE SOLUTIONS	PAGE	
VCR				
TV recording does not work.	rk. The video cassette's erase prevention tab is broken off.  Place a piece of adhesive tape ove the hole.		33	
	The time is not set correctly.	Reset the present time.	20, 21	
	The recording start/end time is not set	Reset the start/end time.	40	
Timer recording does not	correctly.		40	
work.	The TIMER REC button is not pressed	Press the TIMER REC button (the		
	(the TIMER REC indicator is not lit).	TIMER REC indicator is lit).	40	
	Tape is old or worn.	Replace the tape.	_	
Noise bars appear on the	Tracking adjustment is beyond range of	Adjust tracking manually using the TRK	25	
screen.	automatic tracking circuit.	+/- 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	It is in fast forward or fast reverse	Some times a small amount of picture		
occasional distortion.	playback.	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	8	
		type and color system).	0	
	The disc is placed upside down.	Place the disc with the playback side	44	
The unit does not start		down.	44	
playback.	The disc is not placed within the guide.	Place the disc correctly inside the	44	
		guide on the disc tray.	44	
	The parental lock function is set.	Cancel the parental lock function or	57, 58	
		change the parental lock level.	57, 56	
Playback does not follow the	It is in the mode of repeat playback,	These operations may prevent a	_	
course of the disc's program.	memory playback, etc.	proper progress of the contents.		
" 🌓 " appears on the screen.	The function is prohibited with the unit or the disc.	-	8	
REMOTE CONTROL				
	The remote control is not aimed at the	Aim the remote control at the remote		
	sensor.	sensor.	12	
	Distance is too far or too much light in the	Operate within 5 m or reduce the light		
Remote control does not	room.	of the room.	12	
operate.	There is an obstacle in the path of the	Clear the path of the beam.	+	
	beam.		12	
	The batteries are weak.	Replace the batteries.	12	
	The batteries are not inserted correctly.	Insert correctly.	12	
			<i>"-</i>	

Others





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.



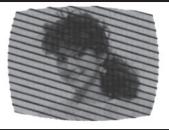
### **SNOW**

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.

**62** 



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	MW20F12	MW24F12		
General				
Power supply	AC 120 V 60 Hz			
Power consumption				
Operation:	110 W	135 W		
Stand by:	4 W			
Picture tube	20 in. (508 mm) diagonal*	24 in. (600 mm) diagonal*		
Speaker	Deaker 1-13/16 x 3-7/8 inches (46 x 99 mm), 8 Ω x 2			
Audio output power	2.5 W + 2.5 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	i frequency response 20 Hz to 20,000 Hz			
Hi-Fi dynamic range	More than 90 dB			
F.FWD/REW	Approx. 1 minute and 48 seconds (with T-	120 cassette tape)		
time 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		rating status: Horizontal		
Input/Output				
Video input	1.0 V (p-p), 75 Ω, negative sync., pin jack	(2		
Video output	1.0 V (p-p), 75 Ω, negative sync., pin jack x 1			
Audio input	-8 dBm, 50 kΩ, 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-SB2) 1				
Batteries (R03/AAA)2				
300-75 $\Omega$ matching transfe	ormer1			
-				

- \* Screen size is approximate.
- This model complies with the above specifications.
- Designs and specifications are subject to change without notice.
- This model may not be compatible with features and/or specifications that may be added in the future.





# Limited United States Warranty

For CRT-based TV/DVD Combinations, TV/VCR Combinations, and TV/DVD/VCR Combinations, 25" and Smaller ("TV Combination(s)")

Toshiba America Consumer Products, L.L.C. ("TACP") makes the following limited warranties to original consumers in the United States. THESE LIMITED WARRANTIES EXTEND TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS TV COMBINATION AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

TV COMBINATIONS PURCHASED IN THE U.S.A. AND USED ANYWHERE OUTSIDE OF THE U.S.A., IN-CLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, ARE NOT COVERED BY THESE WARRANTIES.

TV COMBINATIONS PURCHASED ANYWHERE OUTSIDE OF THE U.S.A., INCLUDING, WITHOUT LIMITATION, CANADA AND MEXICO, AND USED IN THE U.S.A., ARE NOT COVERED BY THESE WARRANTIES.

### Limited Ninety (90) Day Warranty on Labor

TACP warrants this TV Combination 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, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR.** 

### Limited One (1) Year Warranty on Parts

TACP further warrants the parts in this TV Combination against defects in materials or workmanship for a period of one (1) year after the date of original retail purchase. DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU FOR THE PART, PROVIDED THAT IF A DEFECTIVE PART IS REPAIRED OR REPLACED AFTER NINETY (90) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE, YOU MUST PAY ALL LABOR CHARGES IN CONNECTION WITH THE REPAIR OR REPLACEMENT THEREOF.

### Limited Two (2) Year Warranty on Picture Tube

TACP further warrants the picture tube in this TV Combination 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, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PICTURE TUBE WITH A NEW OR REFURBISHED PICTURE TUBE WITHOUT CHARGE TO YOU, PROVIDED THAT IF A DEFECTIVE PICTURE TUBE IS REPAIRED OR REPLACED AFTER NINETY (90) DAYS AFTER THE DATE OF ORIGINAL RETAIL PURCHASE, YOU MUST PAY ALL LABOR CHARGES IN CONNECTION WITH THE REPAIR OR REPLACEMENT THEREOF.** 

### **Rental Units**

The warranty for TV Combination rental units begins on the date of the first rental or thirty (30) days after the date of shipment to the rental firm, whichever comes first.

### **Limited Warranty for Commercial Units**

TACP warrants TV Combinations that are sold and used for commercial purposes as follows: all parts are warranted against defects in materials or workmanship for a period of ninety (90) after the date of original retail purchase. **DURING THIS PERIOD, TACP WILL, AT TACP'S OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REFURBISHED PART WITHOUT CHARGE TO YOU.** 

### **Owner's Manual and Product Registration Card**

Read this owner's manual thoroughly before operating this TV Combination.

Complete and mail the enclosed product registration card or register your TV Combination online at <a href="https://www.tacp.toshiba.com/service">www.tacp.toshiba.com/service</a> as soon as possible. By registering your TV Combination you will enable TACP to bring you new products specifically designed to meet your needs and help us to contact you in the unlikely event a safety notification is required under the U.S. Consumer Product Safety Act. Failure to complete and return the product registration card does not diminish your warranty rights.





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### Your Responsibility

### THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- (1) You must retain your original bill of sale or provide other proof of purchase.
- (2) All warranty servicing of this TV Combination must be performed by an Authorized TACP Service Station.
- (3) The warranties from TACP are effective only if this TV Combination is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustment of customer controls, and installation or repair of antenna systems are not covered by this warranty. Reception problems caused by inadequate antenna systems, misaligned satellite dishes, cable television distribution, VCRs, DVD players/recorders, personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.
- (5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any TV Combination or parts that have been lost or discarded by you or to damage to the TV Combination or parts caused by fires, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TACP; use or malfunction through simultaneous use of this TV Combination and connected equipment; or to units that have been modified or had the serial number removed, altered, defaced, or rendered illegible.

### **How to Obtain Warranty Service**

If, after following all of the operating instructions in this manual and reviewing the section entitled "Troubleshooting," you find that service is needed:

- (1) To find the nearest TACP Authorized Service Station, visit TACP's website at www.tacp.toshiba.com/service or contact TACP's Consumer Solution Center toll free at 1-800-631-3811.
- (2) You must present your original bill of sale or other proof of purchase to the TACP Authorized Service Station. You must deliver the entire TV Combination to a TACP Authorized Service Station. You must pay for all transportation and insurance charges for the TV Combination to and from the TACP Authorized Service Station.

For additional information, visit TACP's website: www.tacp.toshiba.com

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