TOSHIBA











COMBINATION COLOR TELEVISION AND DVD VIDEO PLAYER

MD13Q42 MD20Q42

OWNER'S MANUAL

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(600 0)

Illustration of MD20Q42

©2006 Toshiba Corporation Before operating the unit, please read this manual thoroughly.

IMPORTANT SAFEGUARDS

Dear Customer.

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.





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 item 33 on page 4 for details.)

Child Safety

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 a TV over.
- Share our safety message about this hidden hazard of the home with your family and friends. Thank you!



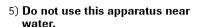
2500 Wilson Blvd. Arlington, VA 22201 U.S.A. Tel. 703-907-7600 Fax 703-907-7690

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

IMPORTANT SAFEGUARDS

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 Wide plug prong are provided for your safety. If the provided plug does not fit into vour 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 not operate normally, or has been dropped.



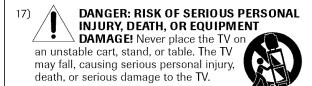
15)

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).



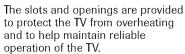
19) Always place the TV on the floor or a sturdy, level, stable surface that can support the weight of the unit.



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 the TV:
 - · 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.



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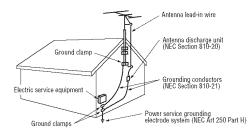
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IMPORTANT SAFEGUARDS

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

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

34) 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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SAFETY PRECAUTION/ Power source

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

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

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance with the FCC (Federal Communications Commission) Rules could void the user's authority to operate this equipment.

CAUTION:

THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

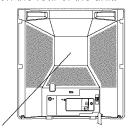
TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTE-NANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

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.

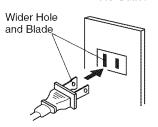
WARNING: This product contains a laser beam. Do not attempt to stare at the beam through the DVD disc tray or the ventilation openings. Staring directly at the beam may cause permanent damage to your evesiaht.

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

AC Outlet



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.

- 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 fully 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 to contact the unit for prolonged period. 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 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 may become disaligned and damage 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

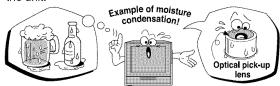
Use a soft, dry cloth for cleaning.

- Use a dry cloth to wipe it dry.
 Do not use any type of solvent, such as thinner and benzine, as they may damage the surface of the unit.
- If you use a chemical saturated cloth to clean the unit, follow that product's instructions.

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 optical pick-up lens inside this unit, one of the most crucial internal parts of the unit.



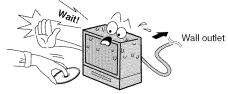
Moisture condensation occurs during the following cases.

- 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.

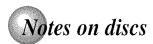
If you use the unit in such a situation, it may damage discs and internal parts. Remove the disc, connect the power cord of the unit to the wall outlet, turn on the unit, and leave it for two or three hours. After two or three hours, the unit will have warmed up and evaporated any moisture. Keep the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

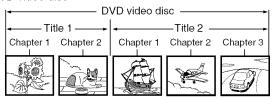
On storing discs

- 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.

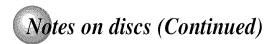
Notes on copyright

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 U.S. patents and other intellectual property rights. Use of this copyright protection technology must be authorized by Macrovision, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision. Reverse engineering or disassembly is prohibited.







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 command. This is not a defect in the unit. Refer to instruction notes of discs.

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The transfer of the TV screen during operation.

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 6111	Approx. 8 hours (double sided disc)		
video discs	DVD	(moving pictures)	8 cm	Approx. 80 minutes (single sided disc)		
	1,90			Approx. 160 minutes (double sided disc)		
Video		Audio + Video	12 cm	Approx. 74 minutes (single sided disc)		
CDs	DIGITAL VIDEO	(moving pictures)	8 cm	Approx. 20 minutes (single sided disc)		
Audio	COMPACT	6 b	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, Video CD or JPEG format
- FUJICOLOR CD format

Some of these discs may be incompatible.

- You cannot play discs other than those listed above.
- You cannot play discs of DVD-RAM, DVD-ROM, Photo CD, etc., or non standardized discs even if they may be labeled as above.
- Some CD-R/RWs 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 guarantee that the DVD player contained in this TV will play every feature of every DVD bearing the DVD logo and/or every CD bearing the CD logo. As one of the creators of DVD technology, Toshiba DVD players are manufactured using the highest standards of quality, and as a result, such incompatibilities are rare. If you happen to experience any difficulty playing a DVD or a CD on the DVD player contained in this TV, please feel free to contact us via the method listed in the "How to Obtain Warranty Services" section on page 49).

is a trademark of DVD Format/Logo Licensing Corporation.







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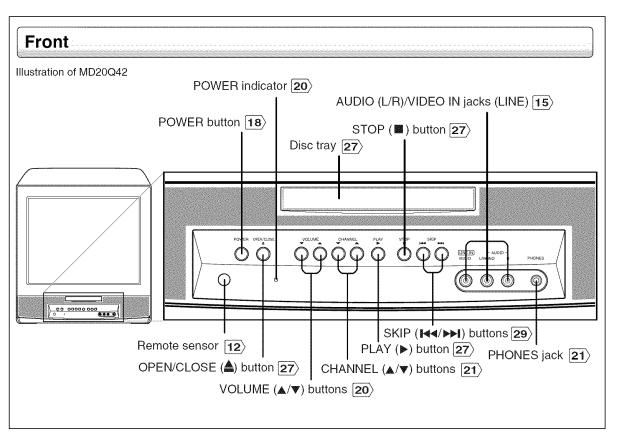
Limited warranty 48

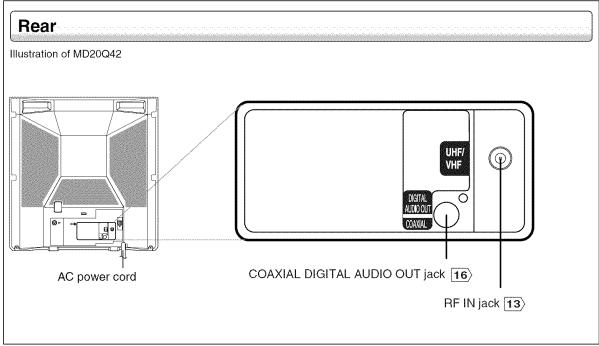




Identification of controls

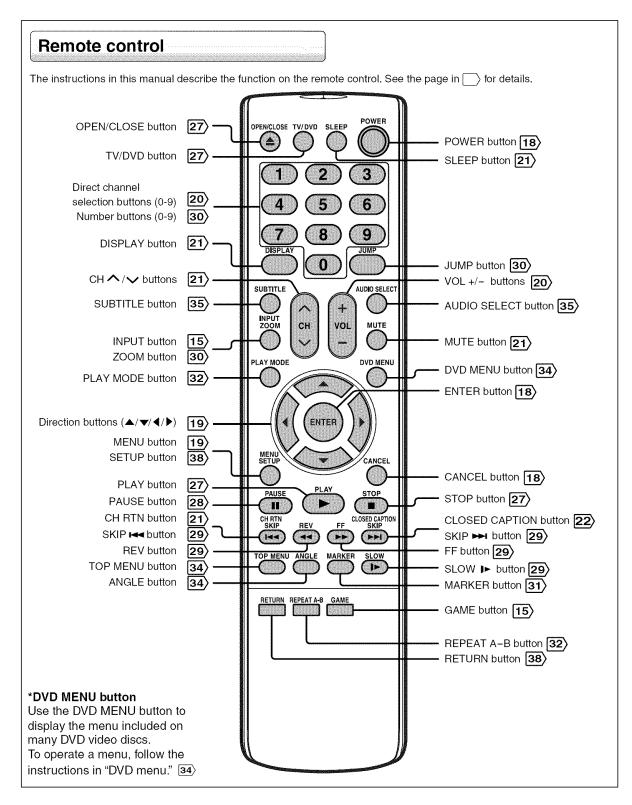
See the page in ____ for details.





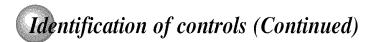






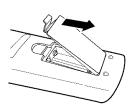


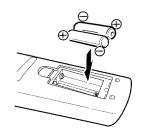




Inserting batteries

- 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 cover.

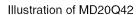


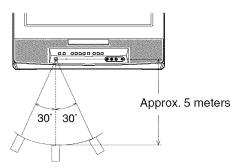




Operation

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





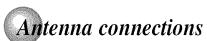
Caution:

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.

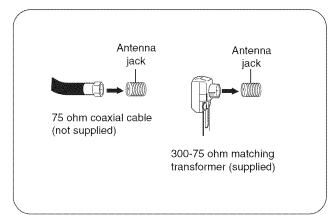






If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a cable TV service (CABLE), see page [14] for Cable TV connections.

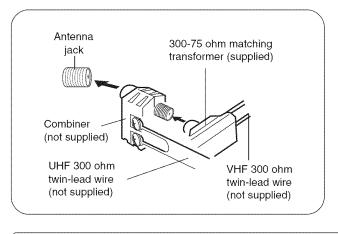
Combination VHF/UHF antenna (Single 75 ohm cable or 300 ohm twin-lead wire)



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

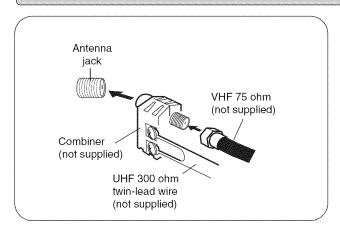
If your combination VHF/UHF antenna has a 300 ohm twin-lead wire, the use of the 300-75 ohm matching transformer may be necessary.

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



Connect the UHF 300 ohm twin-lead wire to the combiner (not supplied). Connect the VHF 300 ohm twin-lead wire to the 300-75 ohm matching transformer. Attach the transformer to the combiner, then attach the combiner to the antenna jack.

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



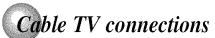
Connect the VHF 75 ohm cable and UHF 300 ohm twin-lead wire to the combiner (not supplied). Attach the combiner to the antenna jack.

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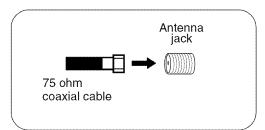


13



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

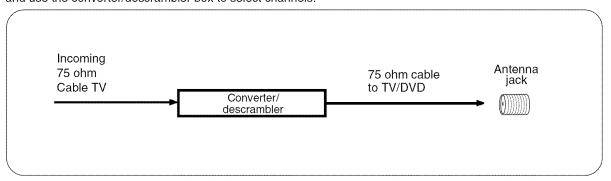
For subscribers to basic cable TV service



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

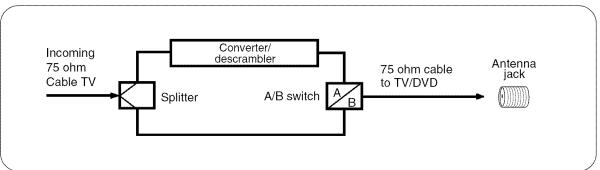
For subscribers to scrambled cable TV service

If you subscribe to a cable TV service which requires the use of a converter/descrambler box, connect the incoming 75 ohm coaxial cable to the converter/descrambler box. Using another 75 ohm coaxial cable, connect the output jack of the converter/descrambler box to the antenna jack on the TV/DVD. Follow the connections shown below. Set the TV/DVD to the output channel of the converter/descrambler box (usually channel 3 or 4) and use the converter/descrambler box to select channels.



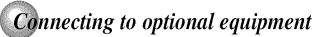
For subscribers to unscrambled basic cable TV service with scrambled premium channels

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

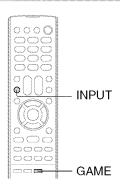






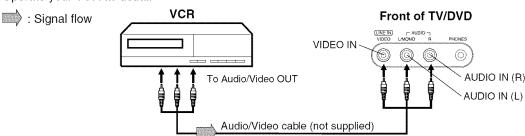


You can enjoy VCR, camcorder or TV game with connection to external input. To select the external input, press INPUT and select "LINE" mode.



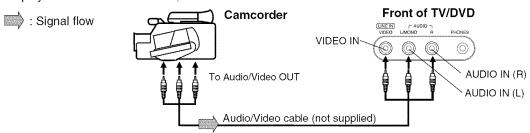
To connect the TV/DVD to a VCR

Press the **INPUT** to select the "LINE" (external input) to use the TV as a monitor. Operate your VCR as usual.



To connect the TV/DVD to a camcorder

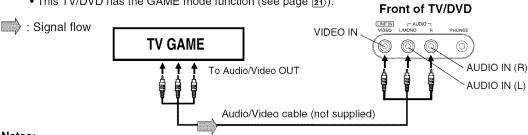
To playback from the camcorder, connect the camcorder to the TV/DVD as shown.



To connect the TV/DVD to a TV Game

You can enjoy playing a TV game on the screen by adjusting to suitable brightness for your eyes.

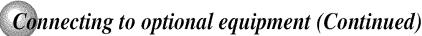
- 1. Connect a TV Game to the TV/DVD.
- 2. Press GAME. The GAME mode screen appears.
 - This TV/DVD has the GAME mode function (see page [21)).



- You can also change the TV screen to LINE by pressing the CH
 ✓ buttons.
- The TV/DVD can also be used as a display device for many video games. However, due to the wide variety of different types of signal generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. You'll need to consult each component's Owner's Manual for additional
- 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.







You can enjoy high quality dynamic sounds by connecting the TV/DVD to optional audio equipment.

* This section uses the following reference mark.

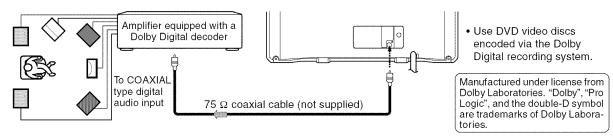
☐ : Front speaker☐ : Rear speaker☐ : Sub woofer

☐ : 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 encoded via the Dolby Digital recording system with this dynamic realistic sound by connecting the TV/DVD 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.

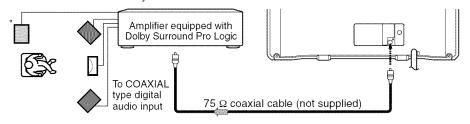


Connecting to an amplifier equipped with Dolby Surround Pro Logic

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.

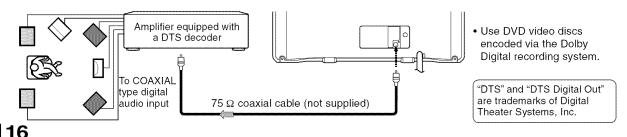


 Connect one or two rear speakers. The output sound from the rear speakers will be monaural even if you connect two rear speakers.

Connecting to an amplifier equipped with a DTS decoder

Digital Theater Systems (DTS)

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.



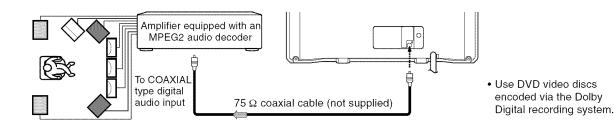
5X30401A [E] (P13-23) 16



Connecting to an amplifier equipped with an MPEG2 audio decoder

MPEG2 sound

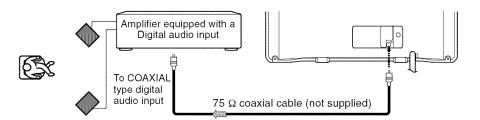
You can enjoy motion picture and live concert DVD video discs encoded via the MPEG2 recording system with dynamic realistic sound by connecting an amplifier equipped with an MPEG2 audio decoder or MPEG2 audio processor.



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).



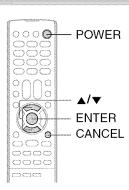
- DO NOT connect the COAXIAL DIGITAL AUDIO OUT jack of the TV/DVD to the AC-3 RF input of a Dolby Digital Receiver.
 This input on your A/V Receiver is reserved for Laserdisc use only and is incompatible with the COAXIAL DIGITAL AUDIO OUT jack of the TV/DVD.
- Connect the COAXIAL DIGITAL AUDIO OUT jack of the TV/DVD 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 TV/DVD 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 TV/DVD has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate
 listening level. Otherwise, the speakers and your hearing may be damaged by a sudden high volume sound.
- Turn off the amplifier before you connect or disconnect the TV/DVD's power cord. If you leave the amplifier power on, the speakers may be damaged.





The STARTING SETUP function makes installing your TV/DVD 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.

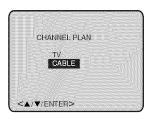






Press ▲ or ▼ to select "TV" or "CABLE", then press ENTER.





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.





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

Note:

If you press **CANCEL** in the process of "AUTO CH MEMORY", you can do starting set up function again.

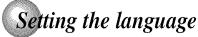


Note:

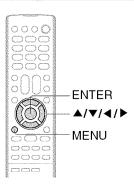
The starting setup function will work only when you press **POWER** for the first time.







This TV/DVD can display the on screen language in English, Spanish or French. Select the language you prefer first, then proceed with the other menu options.



Setting the language

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







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





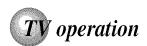
Press MENU repeatedly until the menu screen is cleared.

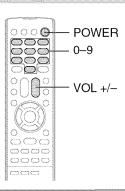


- If the unit does not operate properly, or No key operation (by the unit and/or the remote control): Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
- The TV section has its own menu and also DVD section has its own menu 38).









TV operation

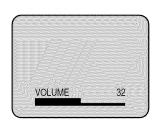
To turn on the TV/DVD, press POWER.
The Power indicator will light.





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 23.

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

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:

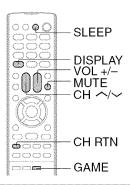
If only 1 or 2 buttons are pressed, the corresponding channel will be selected in 2 seconds.

TV	CABLE
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)

- 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.







■ CHANNEL UP/DOWN

Press and release **CH** ^ or ✓. The channel automatically stops at the next channel set into memory. For proper operation, before selecting channels, they should be set into the memory. See page 23) "To memorize channels".





■ DISPLAY

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

Channel number or external input mode





■ CH 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 TV/DVD's sound will be silenced and "MUTE" will briefly appear on the screen. The sound can be switched back on by pressing this button again or one of **VOL** + *I*-.







■ SLEEP

To set the TV/DVD 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.





■ GAME MODE

After connecting a TV Game to the unit, press **GAME**. The TV screen changes to the Game mode.

- The Game mode screen is adjusted to the suitable brightness for your eyes.
- Game timer function: After one hour, the Game timer display will appear every 30 minutes for approx. 5 seconds showing how long the time has passed up to 4 hours.
- If GAME is pressed during standby mode, the unit turns on automatically and the Game mode screen appears on the screen.



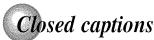


■ HEADPHONES

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.

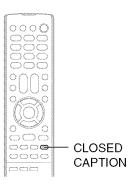


Illustration of MD20Q42



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.





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

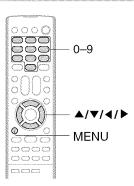
Avoid displaying stationary images on your TV screen for extended periods of time. Fixed (non-moving) patterns or images (including but not limited to PIP/POP windows, closed captions, video game patterns, TV station logos, stock tickers, websites and special formats that do not use the entire screen) 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**.





To memorize channels

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



TV/CABLE selection

Press MENU in the TV mode, then press ◀ or ▶ to select 🗐 option.







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	ľV ch	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-2	A-1	100	101	102	103	104	105	106	107	108	109	110		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





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



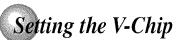


Press ◀ or ▶ to select "ADD" or "DELETE", whichever function you want to perform.





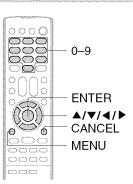
23



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".





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

• If you input a wrong number, press CANCEL.









"*" appears instead of the number.

4 Enter the same password again using Number buttons (0–9) for safety, then press ENTER. Now the password was registered and V-Chip setting menu will appear on the display.







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.

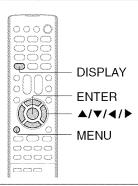






Press MENU repeatedly until the menu screen is cleared.





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 ▲/▼ or ◀/▶ 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.

MENU

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 canceled.

Note:

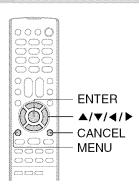
The V-Chip function is activated only on programs that have the rating signal.

25



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 and then press ◀ or ▶ to select ☐ option.







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	∢ Pre	ssing 🕨
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

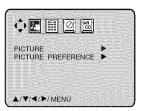
Press CANCEL while making picture adjustments.

Adjusting the picture preference

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

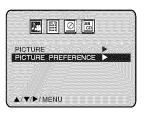






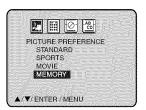
Press ▲ or ▼ to select "PICTURE PREFERENCE", then press ▶.





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





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

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



Note

You cannot select "PICTURE PREFERENCE" in the Game mode.

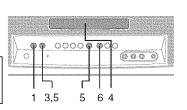
Ψ

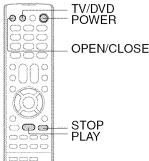


This section shows you the basics on how to play a disc.

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

Illustration of MD20Q42







Basic playback

Preparations:

CAUTION

- 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.

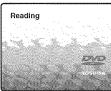
The Power indicator will light.

- Every time you press POWER, the TV/DVD starts from TV mode.
- · When using an amplifier, switch on the amplifier.





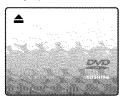
Press TV/DVD to select DVD mode. The DVD startup screen will appear on the screen. "Reading" display will change to "No Disc". (If DVD disc has already loaded, playback will start automatically.)



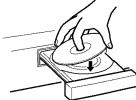
Press OPEN/CLOSE.

The disc tray opens.





Place a disc on the disc tray.



With the playback side facing down.

- · 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 to malfunction.
- · Do not place a disc which is unplayable on the disc tray.

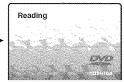
Press OPEN/CLOSE or PLAY.



The disc tray closes automatically. On the TV-screen, "A" 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. 6

■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 ("■" 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, then connect it again.

Basic playback



Playing a disc (Continued)

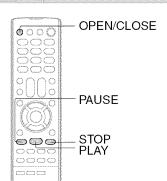
■ About ©VD VCD CD

The Wo Co co icons on the heading bar show the playable discs for the function described under that heading.

• You can use this function with DVD video discs.

vc : You can use this function with Video CDs.

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



Basic playback

■ To pause playback (still mode)

Press PAUSE during playback.



To resume normal playback, press



 The sound is muted during still mode.

■ To stop playback

Press STOP.



■ To remove the disc Press OPEN/CLOSE.

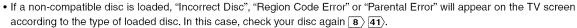


Remove the disc after the disc tray opens completely.



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

Notes:



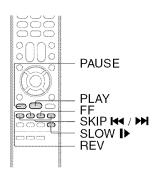
- Some discs may take a minute or so to start playback.
- When you set a single-faced disc label downwards (i.e. the wrong way up) and press **OPEN/CLOSE** or **PLAY** on the unit, "Reading" will appear on the display for a few minutes and then "Incorrect Disc" will continue to be displayed.
- Some discs 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 36).
- 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 you pressing the button and the function activating.

■ To obtain a higher quality picture

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







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.



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

Realing Frame by Frame

Press PAUSE during still playback.



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

■ To resume normal playback

Press PLAY.



Note:

The sound is muted during frame by frame playback.

器 Playing in slow-motion

Press SLOW I► during playback.

SLOW

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

■ To resume normal playback

Press PLAY.



Note:

The sound is muted during slow-motion playback.

12/3/05, 3:30 PM

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 fast forward or fast reverse. Each time you press and hold SKIP, the playback speed will change.

- A prohibition symbol " 🎍 " may appear at the upper left of the screen. This symbol means either the feature you tried is not available on the disc, or the TV/DVD cannot access the feature at this time. This does not indicate a problem with the TV/DVD.
- . 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.



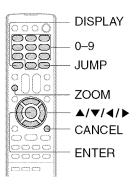








Zooming/Locating desired scene





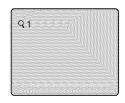
Zooming

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.

The center part of the image will be zoomed in.

Each press of **ZOOM** will change the ZOOM Q1 (x 1.3), Q2 (x 1.5) and Q3 (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
- 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 playback. In the case of VCD/CD discs, time and track are used to locate the desired point to

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

Press JUMP during playback or stop mode.





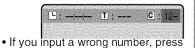
- · "Time" works only in DVD playback or DVD resume mode.
- Press ◀ or ▶ to select the "L Time", "T Title/Track" or "C Chapter".





Press Number buttons (0-9) to input the number.

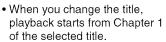


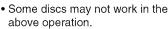


- CANCEL. · Refer to the package supplied with
- the disc to check the numbers.

Press ENTER. Playback starts.







In case of the Video-CD playback with PBC, the JUMP does not work. To turn off PBC, see page 36.



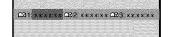
Marking desired scenes

The unit stores the points that you want to watch again up to 3 points. You can resume playback from each scene.

Marking the scenes

Press MARKER during playback.





Select the blank Marker using ◀ or ▶, then press ENTER at the desired scene.

- Up to 3 scenes can be selected.
- Repeat this procedure to set the other 2 scenes.





Press MARKER to clear this display.

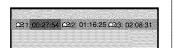


- Some discs may not work with the marking operation.
- The marking is cancelled when you open the disc tray or turn the power off.
- · Some subtitles recorded around the marker may fail to
- In case of Video CD with PBC, the MARKER is prohibited.

Returning to the scenes

Press MARKER during playback or stop mode.





Press or ▶ to select the Marker 1-3.





Press ENTER.



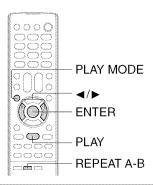
Playback starts from the marked scene.

■ To cancel the Marker

Follow the above steps 1~2, then press CANCEL.









Repeat playback

Press PLAY MODE during playback or stop mode.



◄/▶ to select "Chapter" or "Title". Press



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

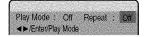


[Video CD, Audio CD]

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:

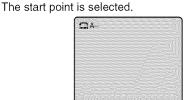
- · Some discs may not work with the repeat operation.
- . In case of Video CD with PBC, Repeat functions are prohibited during playback.



A-B Repeat playback

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

Press REPEAT A-B during playback.



Press REPEAT A-B again.

The end point is selected. Playback starts at the point that you selected. Playback stops at the end point and returns to Point A automatically, then starts again.



■ To resume normal playback

Press REPEAT A-B again.



Off" appears on the screen.

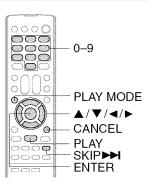
- In A-B Repeat mode, subtitles near the A or B locations may not be displayed.
- · You cannot set the A-B Repeat for the scenes that include multiple angles.
- · A-B Repeat playback does not work when Repeat playback is
- You may not be able to set A-B Repeat, during certain scenes of the DVD.
- A-B 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 can playback tracks or files in random order. These feature works for Audio CD, Video CD and JPEG CD.



Program playback

Press PLAY MODE in the stop mode.





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



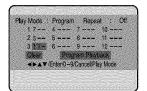


Press ▲/▼/◀/▶ to select the programming position. Use Number buttons (0–9) to input the Track or file numbers.



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



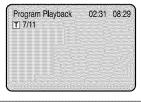


Press ▲/▼/◀/▶ to select "Program Playback" and press ENTER.

The programs you selected will start to playback in order.

- In case of JPEG file, press SKIP ►►I to continue the program playback.
- 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 cancelled when you open the disc tray or turn the power off.

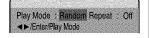
Random playback

Press PLAY MODE during playback or stop mode.



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





Press PLAY.



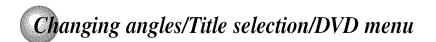
The Random Playback will start.

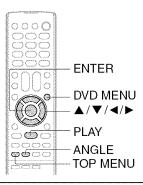
- If you set "Random" during playback mode, Random playback will begin after the track that is currently being played has ended.
- To resume normal playback, select Play Mode: "Off" in step 2.

Note:

In case of Video CD with PBC, you cannot set Random function during playback.





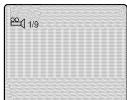


Changing angles

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.

The current angle will appear.



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.

OF MENU Title

Title menu appears on the screen.

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



Press ENTER or PLAY.



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 playback these DVDs, you can select the subtitle language and sound-track language, etc. using the menu.

Press DVD MENU during playback.

DVD MEN

The DVD menu appears on the screen.
• Press **DVD MENU** again to resume

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

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



Press ENTER.



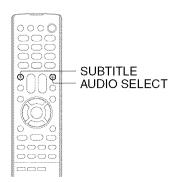
The menu continues to another screen. Repeat steps 2 and 3 to set the item completely.

Note:

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

34

Changing soundtrack language/ **Subtitles**



> 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.

5== 1/8 Eng DD D

Press AUDIO SELECT repeatedly until the desired language is selected.

--- 2/8 Fra **□**□ 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.
- The selected soundtrack language is cancelled when you open the disc tray. The initial default language or available language will be heard if the disc is played back again.
- · If you select DTS in playing DTS-encoded disc, no sound will be heard from the TV/DVD's speakers.

Subtitles

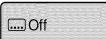
When playing back a disc recorded with subtitles, you can select the subtitle language or turn the subtitle off.

Press SUBTITLE repeatedly during playback until the desired language is selected.

.... 1/8 Eng

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



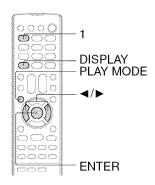


The on screen display will disappear after a few seconds.

- · 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.



Disc status/To turn off the PBC

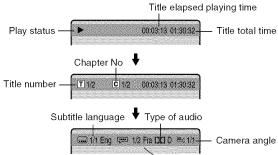


Disc status

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









Title elapsed playing time Play status Title total time

Display Off

Display Off

Audio language

Title number · 05:28

Audio CD

Track elapsed playing time Play status - Track total time Track number -T 11/99

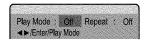
· When you play a CD disc, the status display will appear and remain on the screen.

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.

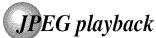
■ To turn on the PBC

Select Play Mode: "PBC" in step 2.

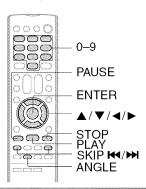
You can also turn off the PBC by pressing number button 1 and ENTER in the stop mode.







You can select your desired JPEG file on the file menu and picture menu. The selected JPEG file is automatically adjusted to the TV screen. (When the aspect ratio of the JPEG file is different to your TV screen, the black bar will appear at the top and bottom, or the both sides of the TV screen).



CAUTION:

Some JPEG CDs cannot be played back depending on the recording conditions.

JPEG CD playback

Place a JPEG disc on the disc tray.

A file menu screen will appear on the screen.

Press ◀/▶ to select folder.





Press ▲/▼/◀/▶ or Number buttons (0–9) to select the desired file.





- To display next list, press **SKIP ™** or **™**.
- Press ENTER. The selected picture appears on the screen.





Rotating an image

You can rotate an image by 90 degrees. Press **ANGLE** during playback of the image.

"≗1 🌬 ", "≗1 🚭 ", "≗1 🖦 " or "≗1 👲 "appears briefly on the screen.

5 Press STOP to end playback. The file menu appears on the screen.

If you want to watch the other file, repeat steps $3 \sim 4$.



Notes:

- During JPEG playback, you cannot use SEARCH and A-B Repeat functions.
- You can use Repeat (Track or All), Random and Program functions for JPEG CD playback 32 33.

Slide show playback

The slide show enables you to view pictures (files) one after another automatically.

Preparation:

Set "JPEG Interval" setting to "5 Seconds", "10 Seconds" or "15 Seconds" (40).

- Select your desired starting file for the slide show in the step 3 on left.
- Press ENTER to start slide show from the selected file.



 If you press PAUSE during the slide show, the slide show stops temporary. "II " appears briefly on the screen.

If the picture appears upside down or sideways, press **ANGLE** repeatedly until it's right side up.

"ဣ(),", "ဣ(), "ဣ() (a)" or "ဣ() (b)" appears briefly on the screen.

- Press **PLAY** or **SKIP →** again to resume the slide show. When the slide show playback finished, the file list ap-
- To stop the slide show, press STOP. The file list appears.

JPEG CD Information

Limitations on JPEG CD playback

- JPEG CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters, "jpg".
- The directory and file names of the JPEG CD must be correspond to the ISO standardized files.
- This unit can read 600 files per disc. If a disc has more than 600 files, it reads up to 600 files, the remaining files will be omitted.
- The unit is able to recognize up to a maximum of 50 directories per disc.
- It may take more than one minute for this unit to read JPEG files depending on its structure.

Limitations on display

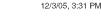
- The maximum number for display is 16 letters. Available letters for display are the following: capital or small alphabets of A through Z, numbers of 0 through 9, and _ (under score).
- · Other letters than those above are replaced in hyphen.

Notes on JPEG files

- To play back JPEG CD in the recorded order,
- Úse JPEG software that records data alphabetically or numerically.
- Name each file including two-digit or three-digit number (ex. "01" "02" or "001" "002").
- 3. Refrain from making too many sub-folders.

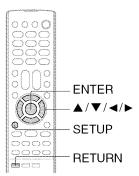


37



Customizing the function settings

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



OVD VCD CD

Setting procedure

Press SETUP during stop mode.

MENU

The following on-screen display appears.



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



Press ▲ or ▼ to select the desired option.



4 Change the selection using ◀ or ▶, by referring to the corresponding pages ③ → 41.



- Repeat steps 3 and 4 to change other settings.
- To select another operation, go back to step 2 by pressing A repeatedly.
- To clear SETUP screen, press SETUP or RETURN.



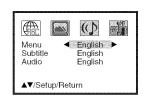


Setting details

Section	Option	Details	Page	
Menu Subtitle Audio		To select the language of "Menu", "Subtitle" and "Audio" if more than one language are recorded on the disc.		
	TV Screen	To select a picture size according to the aspect ratio of your TV.	39	
	Display	To turn On or Off the operational status display on the screen.		
	Picture Mode To select a preferred picture mode from "Video "Film" or "Auto".			
	JPEG Interval	To select a preferred setting for the slide show playback.	40	
	DRC	To select On or Off for DRC (Dynamic Range Control).		
	Password	Input 4-digit password to set the parental level.		
	Parental	To select a preferred parental level for the parental setting.	41	

Setting details





■ 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:

Other language can be selected (see "Language code list" 43).

Original (Audio):

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

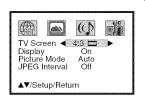
Off (Subtitle):

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 19.





■ 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.

Note:

If the DVD disc is not formatted in the Pan & scan style, it will display 4:3 style.

■ Display

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

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

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





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".

JPEG Interval

You can continuously playback all JPEG files automati-

After the selection below, the disc will start playback on which JPEG files have been recorded.

Plays back one file at a time.

Plays back images in the form of a slide show at 5 second intervals.

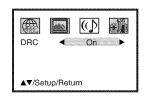
10 Seconds:

Plays back images in the form of a slide show at 10 second intervals.

15 Seconds:

Plays back images in the form of a slide show in 15 second intervals.





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 is toned down slightly when played back. This is suitable when it is connected to a stereo.

Off: It plays back at the recording level on the

disc.

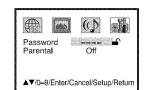
Notes:

- 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 as not suitable for children. Such discs can be limited not to playback with the unit.

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

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

- 2) 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.
- Press ENTER to store the password.
 Note: Now the rating is locked and the setting can not be changed unless you enter the correct password.
- 4) Press **OPEN/CLOSE** to activate Parental control setting. (See "Temporary cancel the rating level by DVD disc" [42).)

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".
- 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.
- 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.

Note:

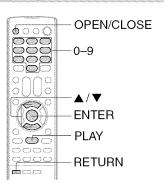
If each setup $\boxed{39} \sim \boxed{41}$ has completed, the unit can always work under the same condition (especially with DVD discs). Each setup will be retained in the memory even if you turn the power off.



Temporary cancel the rating level by DVD disc

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

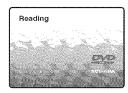
It is up to you to decide whether to cancel the rating level or not.



Load a DVD disc and press PLAY or OPEN/ CLOSE on the unit 27).



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





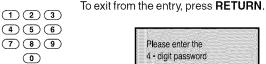
If you wish to cancel the set rating level temporarily, select "Parental Control Level" with ▲ or ▼, then press ENTER. If the 4-digit password at step 2 on page 41 has been set, the password entering screen will appear as shown in step 4. Alternatively, if the password has not been set, playback will 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.





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









Playback will commence if the entered password is correct.

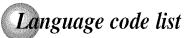
Note:

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.

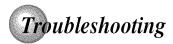






Enter the appropriate code number for the initial settings "Menu", "Subtitle" and/or "Audio" 39).

Language Name Code Spanish Added Name Code Language Name Code Language Name Code Spanish Added Name Code Language Name Code Spanish Added Name Code Language Name	, ,	'			,			
Afar 1111 Finnish 1619 Lithuanian 2230 Slovak Afrikaans 1116 French 1628 Macedonian 2321 Slovenian Albanian 2927 Frisian 1635 Malayasy 2317 Somali Amharic 1123 Galician 1722 Malay 2329 Spanish Arabic 1128 Georgian 2111 Malayalam 2322 Sundanese Arabic 1128 Georgian 2111 Malayalam 2322 Sundanese Armenian 1835 German 1415 Maleyalam 2322 Sundanese Aymara 1135 Greenlandic 2122 Marathi 2328 Tagalog Azerbaijani 1136 Greenlandic 2122 Marathi 2328 Tagalog Azerbaijani 1136 Guarani 1724 Moldavian 2325 Tajik Bashkir 1211 Gujarati 1731 Mongolian 2324 <	iguage Name (Code	Language Name	e Code	Language Name	Code	Language Name	e Code
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Danish1411Kirghiz2135Sanskrit2911WelshDutch2422Korean2125Scots Gaelic1714WolofEnglish1524Kurdish2131Serbian2928XhosaEsperanto1525Laothian2225Serbo-Croatian2918YiddishEstonian1530Latin2211Shona2924Yoruba	atian 1	1828	Kashmiri	2129	Russian	2831	Vietnamese	3219
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	peranto 1	1525	Laothian	2225	Serbo-Croatian	2918	Yiddish	2019
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	oese 1	1625	Latvian, Lettish	2232	Sindhi	2914	Zulu	3631



Use the following check list for troubleshooting when you have problems with your unit. Consult your local dealer or service outlet if problems persist.

Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
POWER		
TV/DVD does not operate.	 Make sure the power cord is plugged in. Try another AC outlet. Power is off, check fuse or circuit breaker. Unplug unit, then plug it back in. 	5
TV BROADCAST RECEPTION		
Poor sound or no sound.	 Station or Cable TV experiencing problems, tune to another station. Check Volume adjustments. Check for sources of possible interference. 	20 20 46
Poor picture or no picture.	 Station or Cable TV experiencing problems, tune to another station. Check antenna or Cable TV connections, reorient antenna. Check for sources of possible interference. Check picture control adjustments. 	20 13, 14 46 26
Poor reception on some channels.	 Station or Cable TV experiencing problems, tune to another station. Station signal is weak, reorient antenna to receive weaker station. Check for sources of possible interference. 	20 13 46
Poor color or no color.	 Station or Cable TV experiencing problems, tune to another station. Make sure channels are set into memory. Check picture control adjustments. Check antenna or Cable TV connections, reorient antenna. Check for sources of possible interference. 	20 23 26 13 46
Picture wobbles or drifts.	 Station or Cable TV experiencing problems, tune to another station. Make sure channels are set into memory. Cable TV company is scrambling signal. Check antenna or Cable TV connections, reorient antenna. 	20 23 - 13, 14
No CATV reception.	 Check all Cable TV connections. Set TV/CABLE selection to the CABLE position. Station or Cable TV system problems, try another station. 	14 23 20
Horizontal or diagonal bars on screen.	 Check antenna or Cable TV connections, reorient antenna. Check for sources of possible interference. 	13,14 46
No reception above channel 13.	Make sure TV/CABLE selection is in the appropriate position. If using antenna, check UHF antenna connections.	23 13
TV shuts off.	No broadcast on station tuned.Sleep Timer is set.Power interrupted.	20 21 -
Closed - Caption is not activated.	 TV station experiencing problems or program tuned is not closed captioned. Try another channel. Check Cable TV connection or VHF/UHF antenna, reposition or rotate antenna. Press CLOSED CAPTION button to turn on the closed caption decoder. 	20 13,14 22
Display is not shown in your language.	Select proper language in the menu options.	19

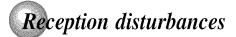




SYMPTOMS	POSSIBLE SOLUTIONS		
OVD			
Playback doesn't start.	No disc is inserted. The disc may be dirty. Clean up the disc. The unit cannot play CD-ROMs, etc.	27 7 8	
No picture.	TV/DVD selector is not set correctly.	27	
No sound.	 Check the input selector of the amplifier is set properly. The unit is in the special playback mode. Select the correct Audio Output position on AV amplifier. 	- 29 -	
Picture is distorted during fast reverse/forward playback.	The picture will be distorted occasionally.	_	
Stopping playback, search, slow- motion play, repeat play, or program play, etc. cannot be performed.	Some discs may not do some of the functions.	-	
No on-screen display.	Select Display On.	39	
No surround sound.	d sound. • The setup does not match your stereo system.		
The unit or remote operation key is not functioning.	Turn off the unit and unplug the AC power cord for several minutes, then replug it.	_	
Playback does not start when the title is selected.	Check the Parental setup.	41	
Audio soundtrack and/or subtitle language is not changed when you playback a DVD.	Multilingual language is not recorded on the DVD disc.	35	
No subtitle.	Some discs have no subtitles. Subtitles are cleared. Press SUBTITLE.	35	
Angle cannot be changed.	Multi-angles are not recorded on the DVD disc.	34	
" 뷀 " appears on the screen.	The function is prohibited with the unit or the disc.	29	
REMOTE CONTROL			
The remote control does not function.	 Aim at the remote control at the remote sensor. Operate within approx. 5 meters or reduce the light in the room. Clear the path of the beam. The batteries are weak. Replace the batteries. Check the batteries are inserted correctly. 	12	



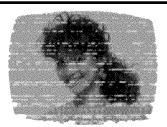




Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results. The most common types of television interference are shown below. If one of these symptoms appear when the TV/DVD is connected to a Cable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

IGNITION

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



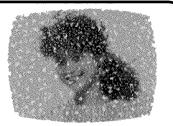
GHOSTS

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



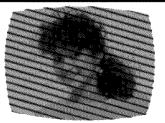
SNOW

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



RADIO FREQUENCY INTERFERENCE (RFI)

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



PICTURE SIZE VARIATION

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



CARE AND MAINTENANCE

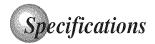
To prevent fire or shock hazard, disconnect the TV/DVD from the power source before cleaning. The finish on the cabinet may be cleaned with mild soap and a soft, damp cloth and cared for as other furniture. Use caution when cleaning or wiping the plastic parts.









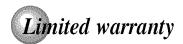


	MD13Q42	MD20Q42		
General	,			
Power supply	AC 120 V 60 Hz			
Power consumption	Operation: 75 W, Stand by: 3 W Operation: 90 W, Stand by: 5 W			
Picture tube	13 Inch* (335.4 mm diagonal)	20 Inch* (508.0 mm diagonal)		
Speaker	1.5 x 2.7 inches (38.1 x 68.6 mm), 8 ohm x 2	3 inches (76.2 mm), 8 ohm x 2		
Audio output power	1.0 W + 1.0 W			
Weight	24.3 lbs (11.0 kg)	48.5 lbs (22.0 kg)		
Dimensions	Width: 14-1/4 inches (362 mm)	Width: 19-3/4 inches (502 mm)		
	Height: 15-1/16 inches (382 mm)	Height: 20-3/16 inches (513 mm)		
	Depth: 14-3/8 inches (365 mm)	Depth: 19-1/4 inches (488.7 mm)		
Tuner	181 channel freq. synthesized			
	VHF 2-13			
	UHF 14-69			
	CATV 125 Channels			
Antenna input	UHF/VHF: 75 Ω coaxial			
Applicable disc	DVD (12 cm, 8 cm), CD (12 cm, 8 cm)			
Frequency range		DVD: 4 Hz-22 kHz, CD: 4 Hz-20 kHz		
Operating conditions	Temperature: 5°C-40°C (41°F-104°F), Operating status: Horizontal			
Input/Output				
Video input	1.0 V (p-p), 75 Ω, negative sync., pin jack x 1			
Audio input	-8 dBm, 50 kΩ, negative sync., pin jack (L/R) x 1			
Audio output (DIGITAL COAXIAL)	0.5 V (p-p), 75 Ω, pin jack x 1			
Supplied accessories				
Remote control (DC-SB2)	1			
Batteries (R03/AAA)				
300-75 Ω matching transformer	1			

- * 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., INCLUDING, 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 www.tacp.toshiba.com/service 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.







Your Responsibility

THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING CONDITIONS:

- 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

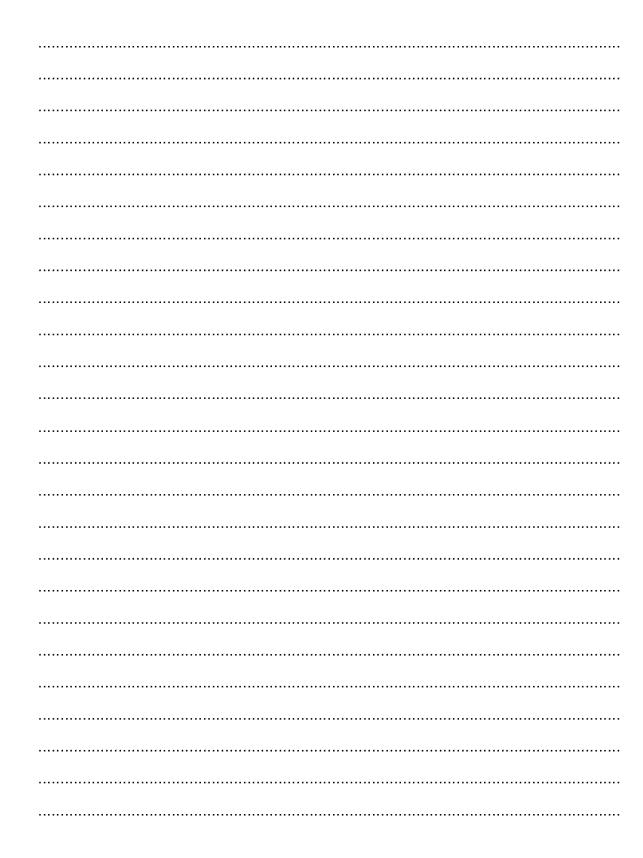
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No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatsoever. The time within which an action must be commenced to enforce any obligation of TACP arising under the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

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE IN THE U.S.A. SOME STATES OF THE U.S.A. DO NOT ALLOW LIMITATIONS ON THE DURATION OF AN IMPLIED WARRANTY, WHEN AN ACTION MAY BE BROUGHT, OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. THEREFORE, THE ABOVE PROVISIONS MAY NOT APPLY TO YOU UNDER SUCH CIRCUMSTANCES.











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