

SHARP®

DVD Video Player

MODEL

DV-MX1U

OPERATION MANUAL



PRECAUTIONS

PREFACE

SETUP

FUNCTIONS

INFORMATION

ESPAÑOL

RW
COMPATIBLE



The region number for this DVD player is 1.

Please read this Operation Manual carefully before using your DVD Video Player.

INSTRUCCIONES EN ESPAÑOL INCLUIDAS.

5 inch
Disc ONLY



PRECAUTIONS

For Customer Use:

For future reference, record the serial number (located at the bottom of the unit) in the space provided.

Model No.: DV-MX1U

Serial No.:

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

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION: POUR ÉVITER LES CHOC ÉLECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



This symbol warns the user of uninsulated voltage within the unit that can cause dangerous electric shocks.



This symbol alerts the user that there are important operating and maintenance instructions in the literature accompanying this unit.

CAUTION:

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

“WARNING—FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user’s authority to operate this equipment.”

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

INFORMATION

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 separation 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.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Este aparato digital de la Clase B cumple con la norma ICES-003 de Canadá.

CAUTION:

THIS UNIT IS A CLASS 1 LASER PRODUCT.

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

AS THE LASER BEAM USED IN THIS UNIT IS HARMFUL TO THE EYES, DO NOT ATTEMPT TO DISASSEMBLE THE CABINET. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

Products that have earned ENERGY STAR® are designed to protect the environment through superior energy efficiency.

IMPORTANT SAFEGUARDS

- 1) Read Instructions - All the safety and operating instructions should be read before the product is operated.
 - 2) Retain Instructions - The safety and operating instructions should be retained for future reference.
 - 3) Heed Warnings - All warnings on the product and in the operating instructions should be adhered to.
 - 4) Follow Instructions - All operating and use instructions should be followed.
 - 5) Cleaning - Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
 - 6) Attachments - Do not use attachments not recommended by the product manufacturer as they may cause hazards.
 - 7) Water and Moisture - Do not use this product near water - for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like.
 - 8) Accessories - Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket or table recommended by the manufacturer or sold with the product. Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
- PORTABLE CART WARNING

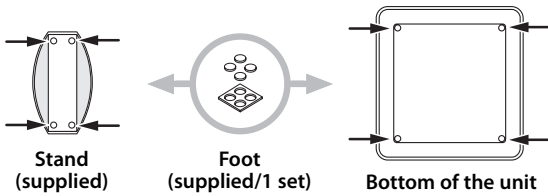


S3125A
- 9) A product and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the product and cart combination to overturn.
 - 10) Ventilation - Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
 - 11) Power Sources - This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
 - 12) Grounding or Polarization - This product may be equipped with a polarized alternating-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
 - 13) Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product.
 - 14) Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
 - 15) Power lines - An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.
 - 16) Overloading - Do not overload wall outlets, extension cords or integral convenience receptacles as this can result in a risk of fire or electric shock.
 - 17) Object and Liquid Entry - Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
 - 18) Servicing - Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
 - 19) Damage Requiring Service - Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - a) When the power-supply cord or plug is damaged,
 - b) If liquid has been spilled, or objects have fallen into the product,
 - c) If the product has been exposed to rain or water,
 - d) If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation,
 - e) If the product has been dropped or damaged in any way, and
 - f) When the product exhibits a distinct change in performance - this indicates a need for service.
 - 20) Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock or other hazards.
 - 21) Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.
 - 22) Heat - The product should be situated away from heat sources such as radiators, heat registers, stoves or other products (including amplifiers) that produce heat.

PREFACE

Setting the Main Unit

You can install this unit horizontally or vertically. Attach the Foot to the bottom of the unit (for Horizontal installation) or bottom of the Stand (for Vertical installation).



Horizontal installation (laying position):

Place the unit as **POWER** comes on your right.

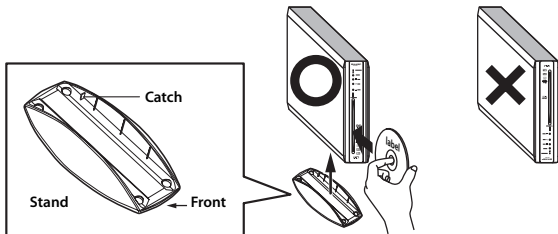


Hint

- Insert a disc with the label facing up.

Vertical installation (standing position):

Place the unit as its dent matches the catch of the Stand. As you position the unit be sure **POWER** is located at the top.



Hint

- Insert a disc with its label facing to the left.

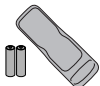
Symbols Used in This Manual

The following symbols appear in some headings and notes in this manual.

- Description refers to playback of DVD-Video discs (including DVD-RW/-R and DVD+RW/+R discs (Video mode only)).
- Description refers to playback of VR mode (Video Recording format). The VR mode (Video Recording format) is a recording mode to enjoy editing the program or manual mode for recording in desired resolution and time.
- Description refers to playback of Audio CDs.
- Description refers to playback of MP3 discs.

Supplied Accessory

- Remote control with two AA size batteries



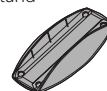
- Video/Audio cables



- Foot (1 set)



- Stand



- Operation Manual



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CONSUMER LIMITED WARRANTY..... BACK COVER

About Copyright

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited.

Copy Protection

This unit supports Macrovision copy protection.

On DVD discs that include a copy protection code, if the contents of the DVD disc are copied using a VCR, the copy protection code prevents the videotape copy from playing normally.

U.S. Patent Nos. 4,631,603; 4,819,098; 4,907,093; 5,315,448; and 6,516,132.

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.

Copyright Warning

It is the intent of SHARP that this product be used in full compliance with the copyright laws of the United States and that prior permission be obtained from copyright owners whenever necessary.

Notice for Progressive Scan Outputs

Consumers should note that not all high definition television sets are fully compatible with this product and may cause artifacts to be displayed in the picture. In case of picture problems with 525 progressive scan output, it is recommended that the user switch the connection to the 'standard definition' output. If there are questions regarding your TV set compatibility with this 525p DVD player, please contact our customer service center.

"Licensed under one or more of U.S. Pat. 4,972,484, 5,214,678, 5,323,396, 5,530,655, 5,539,829, 5,544,247, 5,606,618, 5,610,985, 5,740,317, 5,777,992, 5,878,080, or 5,960,037."

NOTE:


This unit can be used only where the power supply is AC 120 V, 60 Hz. It cannot be used elsewhere.

Laser Diode Properties

Material:	GaAs
Wave length:	DVD: 655 nm
	CD: 790 nm
Emission Duration:	Continuous
Laser output:	Max. 0.8 mW

Manufactured under license from Dolby Laboratories.
"Dolby" and the double-D symbol are trademarks of Dolby Laboratories.

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

 is a trademark of DVD Format/Logo Licensing Corporation.

Nonuse Periods

- When the unit is not being used, switch the unit to the standby mode.
- When left unused for a long period of time, the unit should be unplugged from the household AC outlet.

No Fingers or Other Objects Inside

Do not put your fingers or objects in the disc slot.

Location and Handling

- Do not place anything directly on top of the unit. Do not place the unit directly on top of the TV.
- Depending on the TV, noise or disturbance of the picture and/or sound may be generated if the unit is placed too close to your TV. In this case, please ensure enough space between your TV and the unit.
- Do not cover or place the unit in enclosed spaces to prevent excessive temperature build up.

- Do not place the unit in direct sunlight, or near heat sources.
- Depending on the environment, the temperature of the unit may increase slightly. **This is not a malfunction.**
- Keep the unit away from strong magnetic objects.
- Do not place any object containing water or other liquids on the unit. In the event that liquid should enter the cabinet, unplug the unit immediately and contact the retailer or service center approved by SHARP immediately.
- Do not remove the unit's cabinet. Touching parts inside the cabinet could result in electric shock and/or damage to the unit. For service and adjustment inside the cabinet, call a qualified dealer or service center approved by SHARP.
- Be sure to remove a disc and unplug the AC power cord from the output before carrying the unit.

Warning of Dew Formation

Dew may form inside the unit under the following conditions:

- Immediately after a heater is turned on.
- In a steamy or humid room.
- When the unit is suddenly moved from a cold to warm environment.

If dew forms inside this unit, it may not operate properly. In such case, turn on the power and wait for more than 2 hours for the moisture to evaporate.

Maintenance

Servicing

1. Please refer to relevant topics in the "TROUBLESHOOTING GUIDE" on page 20 before returning the product.
2. Do not attempt to service this unit yourself. Instead, unplug it and contact a SHARP Approved Service Center for inspection. (See **CONSUMER LIMITED WARRANTY** at the end of this manual.)
3. Be sure the service technician uses authorized replacement parts or their equivalents. Unauthorized parts may cause fire, electrical shock, or other hazards.
4. Following any service or repair, be sure the service technician performs safety checks to certify that this unit is in safe operating order.
5. If this unit becomes inoperative, do not try to correct the problem by yourself. There are no user-serviceable parts inside. Turn off, unplug the power plug, and please call our help line mentioned on page 20 to locate an Authorized Service Center.

Cleaning the Cabinet

- Use a soft cloth slightly moistened with a mild detergent solution. Do not use a solution containing alcohol, spirits, ammonia or abrasive.

Cleaning Discs

- When a disc becomes dirty, clean it with a cleaning cloth. Wipe the disc from the center out. Do not wipe in a circular motion.
- Do not use solvents such as benzene, thinner, commercially available cleaners, detergent, abrasive cleaning agents or antistatic spray intended for analog records.

Recommended Measures for Optimum Picture Excellence

This unit is a precision device constructed using extremely accurate technology.

- The disc cannot be played if the disc drive component is worn out or if the internal pick up lens is dirty.
- If this unit still does not perform properly although you refer to the relevant sections and to "TROUBLESHOOTING GUIDE" on page 20, the laser optical pickup unit may be dirty. Consult a SHARP Approved Service Center for inspection and cleaning of the laser optical pickup unit.

Disc Handling

- When you handle a disc, hold it by its edge and try not to touch the surface of the disc.
- Always store a disc in its protective case when it is not used.

ABOUT THE DISCS

Playable Discs

Playable discs	Mark (logo)	Region code	Recorded signals	Disc types
DVD-Video *1, 2, 3		or	Digital video (MPEG2)	
DVD-RW DVD-R *1, 3, 4, 5, 6, 8, 9	 	—		
DVD+RW DVD+R *1, 3, 4, 5, 7, 8, 9	 	—		
Audio CD *3, 5, 10		—	Digital audio	
CD-RW CD-R *3, 4, 5, 8, 9, 10	 	—	Digital audio or MP3	

Only 5 inch discs are available on this unit.

If you cannot play back a disc which bears one of the marks above, check the following notes.

- *1: This unit conforms to the NTSC color system. Discs recorded in other color systems such as PAL cannot be played back.
- *2: Certain DVD-Video discs do not operate as described in this manual due to the intentions of the disc's producers.
- *3: Scratched or stained discs may not be played back.
- *4: Some discs cannot be played back because of incompatible recording conditions, characteristics of the recorder or special properties of discs.
- *5: You can play back discs which bear the marks above. If you use nonstandardized discs, this unit may not play them back. Even if they are played back, the sound or video quality will be compromised.
- *6: Depending on the recording status of a disc, the disc may not be played back at all or normally (the picture or sound may not be smooth, etc.). In this case, you need to finalize the disc with the DVD recorder. Refer to the manual accompanying the DVD recorder.
- *7: Only the discs recorded in the video mode and finalized can be played back. Unfinalized discs cannot be played back. Depending on the recording status of a disc, the disc may not be played back at all or the picture or sound may not be smooth, etc.
- *8: If the recorded portion of the disc is too small (less than 2 3/16 inches (55 mm) across), it may not play back properly.
- *9: Do not glue paper or put stickers on to the disc. These may damage the disc, and the unit may not read it correctly.
- *10: Also DTS CD is available when the unit is connected to the DTS decoder.

:This label indicates playback compatibility with DVD-RW discs recorded in VR mode (Video Recording Format).

Hint

- This unit cannot play back the DVD-RW/-R recorded of the once-copy programs.
- This unit cannot play back the DVD-R discs recorded in VR mode (Video Recording Format).

Unplayable Discs

- **NEVER** play back the following discs. Otherwise, malfunction may result:

3 inch (8 cm) disc, DVD-RAM, CD-I, Photo CD, Video CD, DVD with region codes other than 1 or ALL, DVD-ROM for personal computers, CD-ROM for personal computers

Hint

- Never insert a disc which is broken or abnormal shape (other than 5 inch (12 cm) round disc).
- Do not use a single CD adaptor which makes 3 inch (8 cm) to 5 inch (12 cm) disc.

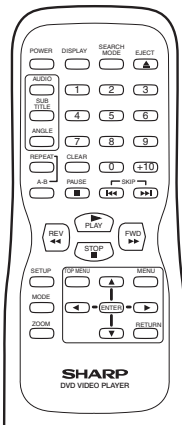
- **On the following disc, the sound MAY NOT be heard.**
Super Audio CD

Hint

- Only the sound recorded on the normal CD layer can be delivered. The sound recorded on the high density Super Audio CD layer cannot be delivered.

- **Any other discs without compatibility indications.**

ABOUT THE REMOTE CONTROL

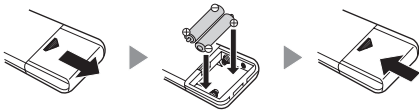


Installing the Batteries for the Remote Control

Install two AA size batteries (supplied) matching the polarity indicated inside battery compartment of the remote control.

Hint

- Do not mix alkaline and manganese batteries.
- Do not mix old and new batteries.



Operable Range

Keep in mind the following when using the remote control:

- Make sure that there is no obstacle between the remote control and the remote sensor on the unit.
- The maximum operable range as follows;

Line of sight:

approximately 23 feet (7 m)

Either side of center:

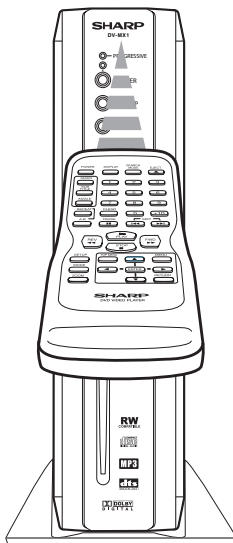
approximately 16 feet (5 m) within 30 degrees

Above:

approximately 16 feet (5 m) within 15 degrees

Below:

approximately 10 feet (3 m) within 30 degrees



Disc type	DVD	DVD-RW VR Mode	CD	MP3
Button (Alphabetical order)				
1 2 3 4 5 6 7 8 9 0 G-10				• To select track directly.
← ENTER → ↑ ↓				• To move the cursor and determine its position.
A-B				• To repeat between your chosen point A and B.
ANGLE				• To change the camera angle to see the sequence being played back from a different angle. (DVD-Video)
AUDIO				• To select a desired audio language or sound mode.
CLEAR				• To clear the markers. • To clear the numbers entered incorrectly. • To cancel the point for A-B repeat.
DISPLAY				• To display the current disc mode.
EJECT				• To eject the disc.
REV FWD				• To search forward/backward through a disc. • To begin slow forward/reverse playback during the pause mode.
MENU				• To call up the menu on a disc.
MODE				• To set rapid play off/x1.3/x0.8. • To set black level on/off. • To set virtual surround on/off.
PAUSE				• To pause disc playback. • To advance playback one frame at a time.
PLAY				• To begin disc playback.
POWER				• To turn the unit on or off.
REPEAT				• To play a chapter or title repeatedly.
RETURN				• To return to the previous operation.
SEARCH MODE				• To search chapter, title or time. • To rapidly return to a location of disc. • Search the markers.
SETUP				• To enter the setup mode or to change setup items.
SKIP				• To skip chapters or titles.
STOP				• To stop playback.
SUB TITLE				• To select subtitles on a disc.
TOP MENU				• To call up the top menu on a disc. (DVD-Video)
ZOOM				• To magnify the part of the picture. (x2/x4)

SETUP

CONNECTIONS

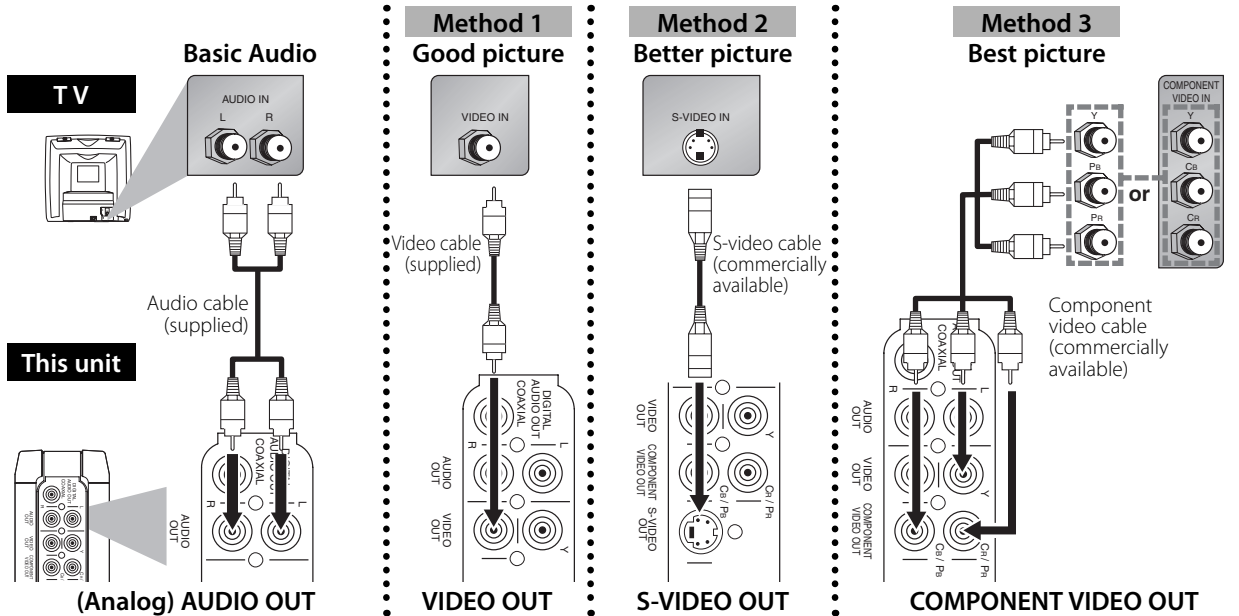
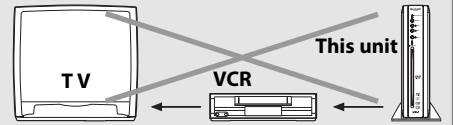
Connection to a TV

CAUTION:

- Be sure to turn off the unit and equipment to be connected before connecting.
- Read through the Operation Manual for the equipment to be connected.
- Be sure that the colors of the jacks and plugs match up when connecting the cable.
- Be sure to keep the unit connection cables separate from the TV antenna cable when you install the unit, because it may cause electrical interference when you are watching television programs.

CAUTION:

- Connect the unit directly to the TV. Do not connect the unit to a VCR, then connect the VCR to the TV. Copyright protection in the VCR could distort the picture playing on the unit.



- Hint**
- The unit is sending each video signals simultaneously. If you connected an S-VIDEO OUT and/or a COMPONENT VIDEO OUT with the VIDEO OUT, make sure your TV's input mode is set correctly according to the connection you made.
 - If you want to listen to the audio through audio equipment, connect only the S-video, component video cable or video cable to the TV.
 - You will not be able to hear all of the sound being output by the unit if you use the video/audio cable (supplied) to a monaural TV that has only one audio input jack.

If your TV is compatible with 525 progressive scanning and you want to enjoy that high quality picture:

You must select the connection **Method 3** above and progressive scanning mode. To set the mode, set "PROGRESSIVE" to "ON" in the DISPLAY menu, so that the PROGRESSIVE indicator on the front panel lights on. See pages 16, 17 for more details.

- When "PROGRESSIVE" is "ON", video signals from the unit's VIDEO OUT and S-VIDEO OUT jacks will be distorted or not be output at all.

If your TV is not compatible with progressive scanning:

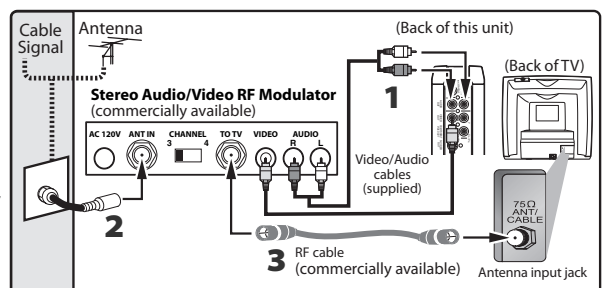
Use this unit in interlace mode and set "PROGRESSIVE" to "OFF" either in the DISPLAY menu or by pressing and holding **PLAY** on the front of the unit for more than 5 seconds, so that the PROGRESSIVE indicator on the front panel lights off.

RF Modulator Connection

If your TV has Antenna input jack only, it is still possible to connect this unit to your TV by using a STEREO AUDIO/VIDEO RF Modulator (commercially available).

In this case, follow the instructions below.

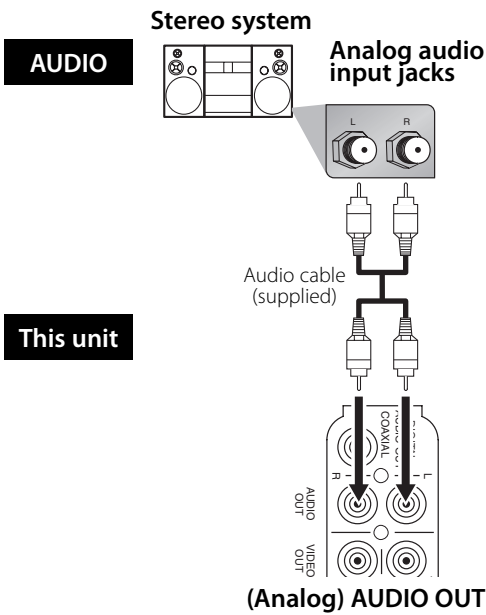
1. Connect the AUDIO/VIDEO output jacks of this unit to the AUDIO/VIDEO input jacks of your RF Modulator by audio and video cables.
2. The antenna input jack of your TV may have been already occupied. If so, disconnect the RF cable from your TV, and then connect the RF cable to your RF Modulator (usually marked "ANT IN").
3. Connect your RF modulator to your TV by another RF cable.
4. Set your RF modulator's channel 3/4 switch to either 3 or 4, whichever the TV channel is least used in your area. If your RF modulator has a Modulator/Antenna switch, set it according to your RF modulator's manual.
5. Turn on your TV and choose the same channel as you set the RF modulator's channel 3/4 switch to. For more details, follow the instructions supplied with the RF Modulator.



- Hint**
- The quality of picture may become poor if the unit is connected to an RF Modulator.

Connection to an Audio System

Method 1

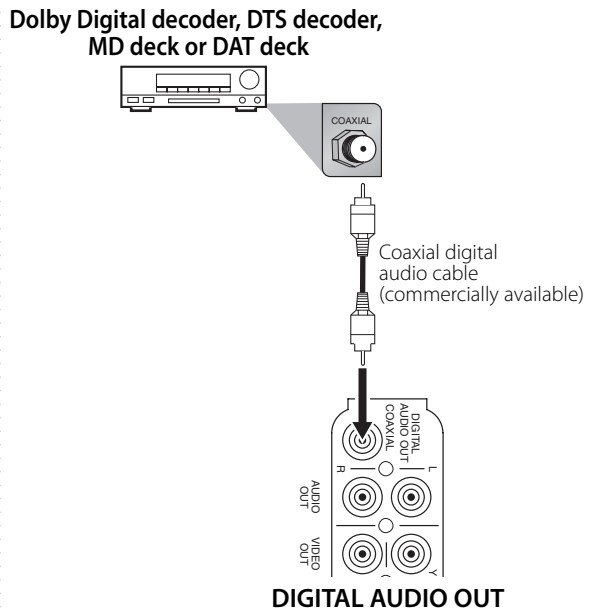


Setting	SETUP > (QUICK) >	
	DOLBY DIGITAL	DTS
Connection	DOLBY DIGITAL	DTS
Connecting to Stereo System.	DPCM	OFF

* To complete these settings, refer to pages 16, 18.

Setting	
Hint	<ul style="list-style-type: none"> Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers. AUDIO OUT jacks are not available on the DTS audio.

Method 2



Setting	SETUP > (QUICK) >	
	DOLBY DIGITAL	DTS
Connection	BITSTREAM	
Connecting to a Dolby Digital or DTS decoder for Dolby Digital or DTS audio output.	BITSTREAM	
Connecting to the other equipment (an MD deck or DAT deck etc.) without Dolby Digital decoder.	DPCM	OFF

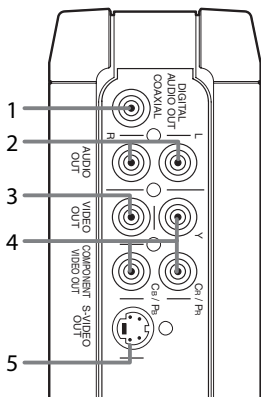
* To complete these settings, refer to pages 16, 18.

Setting	
Hint	<ul style="list-style-type: none"> The audio source on a disc in a Dolby Digital 5.1 channel surround format cannot be recorded as digital sound by an MD or DAT deck. Playing back a DVD using incorrect settings may generate noise distortion and may also damage the speakers. By hooking this unit up to a Multi-channel Dolby Digital decoder, you can enjoy high-quality Dolby Digital 5.1 channel surround sound as heard in the movie theatres. By hooking this unit up to the DTS decoder, you can enjoy 5.1 channel surround system which reproduces the original sound as truthfully as possible. 5.1 channel surround system is developed by the Digital Theater System Inc.

Digital Connection to Audio Equipment or MD deck without a Dolby Digital Decoder

- Audio CD
 - Audio CDs can be transferred digitally to other equipment such as an MD deck or DAT deck, play the disc as you would normally with the connection shown above. Audio CDs recorded in the DTS format cannot be transferred digitally or via analog.
- Some Audio CDs have a short silent section between musical tracks. When sound from discs such as these is digitally recorded by connecting the unit directly to a digital recorder (such as an MD deck or DAT deck), the music may be recorded continuously and track numbers may be lost.
- DVD
 - DVDs recorded in Dolby Digital 5.1 channel surround sound or DTS cannot be connected digitally to external recording equipment such as an MD deck or DAT deck.
 - It may be possible to record "Dolby Digital" via a digital connection if the unit's output is set to "DPCM" (see page 18 "AUDIO Setting"). Analog recording is possible but not for DTS recorded audio.

Rear Terminals



1. DIGITAL AUDIO OUT COAXIAL jack

Connect an optional coaxial digital audio cable here through the coaxial digital audio input jack of a decoder or audio receiver.

2. AUDIO OUT jacks

Connect the supplied audio cable (red/white) here through the audio input jacks of a TV or other audio equipment.

3. VIDEO OUT jack

Connect the supplied video cable (yellow) here through the TV's video input jack.

4. COMPONENT VIDEO OUT jacks

Connect an optional component video cable here through the component video input jacks of TV.

5. S-VIDEO OUT jack

Connect an optional S-video cable here through the S-video input jack of a TV.

FUNCTIONS

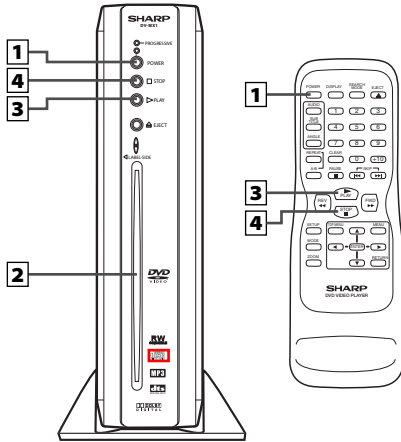
PLAYBACK

Before: Turn on the TV, amplifier and any other equipments which are connected to this unit. Make sure the TV and audio receiver (commercially available) are set to the correct channel.

page 12)

Hint

You can change the On-Screen language in "PLAYER MENU" setting. (Refer to pages 16, 17.)



1. **POWER**
2. Insert a disc with label facing to the left.
3. To start playback.
4. To stop playback.

Hint

- When you play MP3 files, details are on page 12.
- A "prohibited icon" may appear at the top-right on the TV screen when the operation is prohibited by the disc or this unit.
- Some DVDs may start playback from title 2 or 3 due to specific programs.
- During the playback of a 2-layered disc, pictures may stop for a moment. This happens while the 1st layer is being switched to the 2nd layer. This is not a malfunction.
- A DVD-RW disc recorded in the VR mode may freeze momentarily during playback depending on how the playlist was made and edited (deleted titles, repeated recording).

DISC Menu

Some discs contain menus which allow you to customize disc playback. Use **Cursor** / / / or the **Number buttons** to select an item, then press **ENTER** or **PLAY**

Calling up a Menu Screen (for playback of a DVD Video)

- Press **MENU** to call up the DVD menu.
- Press **TOP MENU** to call up the title menu.

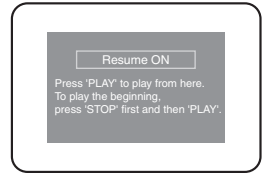
Hint

- If the feature is not available, symbol may appear on the TV screen.
- Menu operations may vary depending on the disc. Refer to the manual accompanying the disc for more details.

Resume

Press **STOP** during playback. Resume message will appear on the TV screen.

Press **PLAY** , playback will resume from the point at which playback was stopped.



<Example : DVD>

Hint

- To cancel resume, press **STOP** one more time during the stop mode. On some discs, **STOP** will not work while the Resume message appears. Please wait until the message disappears.
- For MP3, playback will resume from the beginning of the track at which playback was stopped.
- The resume information will be kept even when the power is turned off.

Paused and Step-by-Step Playback

Press **PAUSE** during playback.

- Playback will be paused and sound will be muted.

To continue playback, press **PLAY** .

The disc goes forward by one frame each time **PAUSE** is pressed during the pause mode.

To continue playback, press **PLAY** .

Hint

- On DVDs, set "STILL MODE" to "FIELD" in the DISPLAY menu if pictures in the pause mode are blurred. (Refer to pages 16, 17.)

Fast Forward/Reverse Search

Press **FWD** or **REV** repeatedly during playback to select the required forward or reverse speed.

To continue playback, press **PLAY** .

Hint

- On DVDs, set "STILL MODE" to "FIELD" in the DISPLAY menu if pictures during Fast Forward and Reverse Search are blurred.
- For DVDs, Fast Forward or Reverse Search speed is different depending on the disc.
- For DVDs, approximate speed is 1(x2), 2(x8), 3(x20), 4(x50) and 5(x100).
- For Audio CDs and MP3, approximate speed is 1(x2), 2(x8) and 3(x30).
- For Audio CDs and MP3, sound will be output during Fast Forward or Reverse Search.

Slow Forward/Slow Reverse



Press **FWD** ►► or **REV** ◀◀ repeatedly during the pause mode to select the required forward or reverse speed.

To continue playback, press **PLAY** ►.

Hint

- Slow Forward or Reverse speed is different depending on the disc. Approximate speed is 1(1/16), 2(1/8) and 3(1/2).
- On DVDs, set "STILL MODE" to "FIELD" in the DISPLAY menu if pictures in the slow playback mode are blurred. (Refer to pages 16, 17.)

Zoom

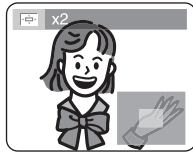


The zoom function allows you to enlarge the video image and to pan through the enlarged image.

1. During playback, press **ZOOM**.



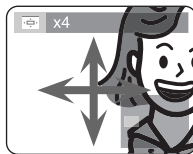
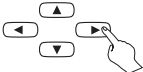
- The picture becomes twice as large.



2. Press **ZOOM** repeatedly to change the zoom factor: "x2", "x4" or "OFF".



3. Once a desired zoom factor is set, use **Cursor** ▲/▼/◀/▶ to move the zoomed picture across the screen.



4. To exit zoom function, press **ZOOM** repeatedly to select "OFF".



Hint

- Zooming function does not work while the disc menu is showing up.
- x4 zoom is not available on some discs.
- Zooming function is also available during pause mode.

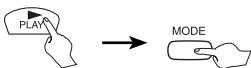
Rapid Play



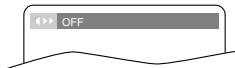
Rapid Play function is available only during playback.

Available only on discs recorded in the Dolby Digital format, Rapid Play plays back in slightly faster/slower speed with sound that is close to normal playback quality.

1. During playback, press **MODE**.



- The current setting appears.



2. Press **ENTER** to switch among "♪ (x1.3)", "♪ (x0.8)" and "OFF".



- ♪ : Plays back approximately at 0.8 times of normal playback.
- ♪♪ : Plays back approximately at 1.3 times of normal playback.
- OFF : No effects.

3. To continue normal playback, press **PLAY** ►.



Hint

- Audio (language) setting cannot be changed while using this mode.
- Virtual Surround and Black Level Setting cannot be changed while using this mode.
- Virtual Surround does not function while using this mode.
- This feature may not work at some point in a disc.
- When using digital audio connection, the DPCM sound will be output.

Playing the Disc Recorded in VR Mode (Video Recording Format)



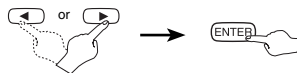
DVDs recorded in VR mode can have a PLAYLIST assigned to alter the order or content to be played. If a PLAYLIST has been created, you can choose the ORIGINAL or PLAYLIST option.

1. Press **MENU** in stop mode.



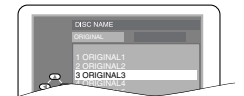
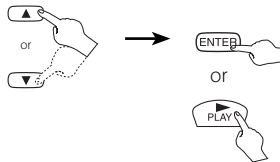
- The current setting screen will appear.
- Pressing **MENU** during playback is not valid.

2.



- ORIGINAL : A list of titles which are recorded with a DVD recorder.
- PLAYLIST : A list of titles which is made based on the ORIGINAL edited list.

3. To select the desired title.



To decide.

Hint

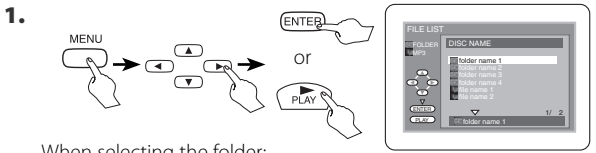
- PLAYLIST will not be displayed when it has not been made.
- Resume playback will not be possible if you change the setting.
- When discs recorded in VR mode, changing the audio (MAIN, SUB or MAIN+SUB) is effective only when using an analog connection. Although you may be able to change the settings of the on-screen display, it will not affect the sound when using a digital connection.

MP3 PLAYBACK

MP3 is a method of compressing files. You can copy MP3 files on CD-RW/-Rs from the computer and play back the files on this unit.



Insert a MP3-format disc, then press **MENU** to call up the FILE LIST on the TV screen.



When selecting the folder:

- Press **Cursor** ▶ when you want to go to the next hierarchy.
- Press **Cursor** ◀ when you want to go back to the previous hierarchy (except for the top hierarchy).



This unit recommends the files recorded under the following circumstances:

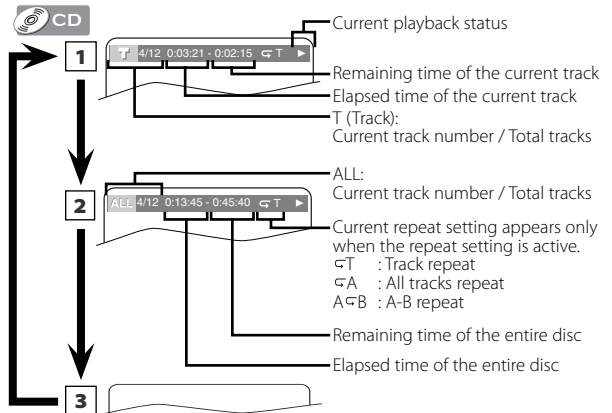
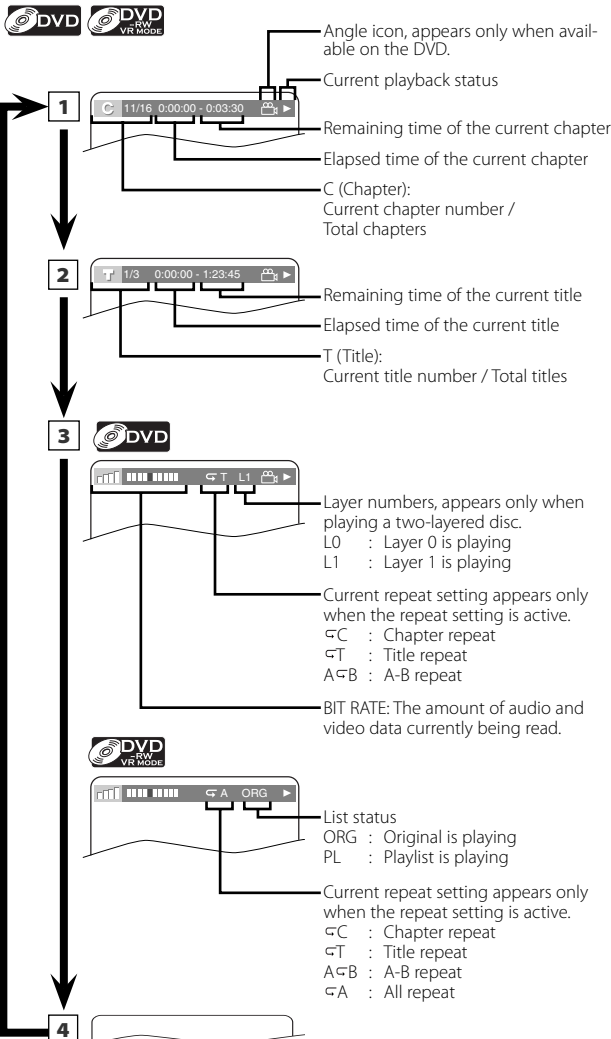
Applicable MP3 file	Remarks
Sampling frequency: 44.1 kHz or 48 kHz	For MP3 file recorded in Variable Bit Rate (VBR), the unit may not display the actual elapsed time.
Constant bit rate: 32 kbps ~ 320 kbps	

Hint

- Some selections may take a while to be recognized.
- Press **TOP MENU** to return to the 1st item.
- Press **MENU** or **RETURN** to go back to the opening display.
- Folders are known as Groups; files are known as Tracks.
- Folders and MP3 files are displayed respectively as [] and [].
- A maximum of 255 folders or 999 files may be recognized in one disc.
- Up to 8 hierarchies can be recognized in one folder. Files in the 9th or deeper hierarchies cannot be played back.
- This unit can play back sounds from data recorded in MP3 format on CD-RW/-R discs.
- A file with an extension of ".mp3 (MP3)" is called an "MP3 file".
- The unit can run an image file conforming to the Exif specification. Exif is a file format, Exchangeable Image File format established by Japan Electronics and Information Technology Industries Association (JEITA).
- Files whose extension is other than ".mp3 (MP3)" will not be listed in the MP3 menu.
- If the file is not recorded in MP3 format, noise may be produced even if the file extension is either ".mp3 (MP3)".
- The name of group and track can be displayed in up to 25 characters. Unrecognisable characters will be replaced with asterisks.
- Unplayable groups or tracks may be displayed depending on the recording conditions.
- If **TOP MENU** is pressed when a FILE LIST is displayed, the 1st item will be highlighted.

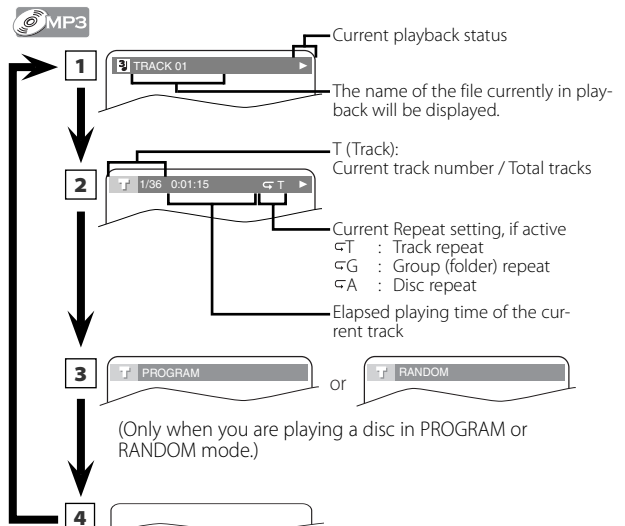
ON-SCREEN DISPLAY

You can check the information about the current disc by pressing **DISPLAY** on the remote control. Each time you press **DISPLAY**, On-Screen Display changes as examples below.



Hint

- When you are playing a disc in PROGRAM or RANDOM mode, "T PROGRAM" (or "RANDOM") will be displayed instead of [2].



SEARCH FUNCTION

Track Search



Using SEARCH MODE

- 1.
2. within 30 seconds.

Hint

- For the discs with less than 10 tracks, press the track number directly.
- **+10** button can also bring up the Track Search display.
- For discs with 10 or more but less than 100 tracks, to play a single-digit track, press **0** first, then the track number (e.g. for track 3, press **0, 3**). To play a double-digit track, press the track number.
- For discs with 100 or more tracks, to play a single or a double-digit track, press **0** first, then the track number (e.g. for track 26, press **0, 2, 6**). To play a triple-digit track, press the track number.
- **SEARCH MODE** does not work during Programmed or Random Playback.

Using SKIP <<< / >>>

1. →

Hint

- **SKIP <<< / >>>** are not available when playback is stopped.
- Previous tracks cannot search at Random Playback by using **SKIP <<<**.

Title / Chapter Search



Using SEARCH MODE

1. →

Press **SEARCH MODE** once for the Chapter Search.
Press **SEARCH MODE** twice for the Title Search.

2. within 30 seconds.

Using SKIP <<< / >>>

1. →

Hint

- Depending on the disc being played, this function can also be performed by directly entering the desired chapter number with the **Number buttons**. Refer to the manual accompanying the disc.

Time Search



1. →

Press **SEARCH MODE** repeatedly until "0" appears.

2. within 30 seconds.

Hint

- When there is no need to enter a number, "0" appears automatically. For example, "0: _ : _" appears in the Time Search display if the total time of the title or track is less than 10 minutes.
- Press **CLEAR** to erase the incorrect input at step **2**.

MARKER SETUP



This feature allows you to assign a specific point on a disc to be called back later.

To set a marker

1. →
- 2.
- 3.

To return to the marker later

1. →
- Press **SEARCH MODE** repeatedly until the Marker display appears.

- 2.

3.
At the desired marker
• Playback will restart from the specific point which you set.

To exit the Marker display

- 1.

Hint

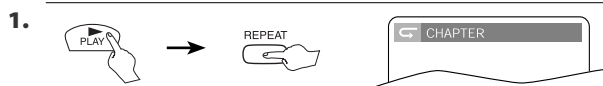
- The Marker display will disappear in about 30 seconds when there is no input.
- To clear a marker, select the marker to be cleared at step **2** in the section "To set a marker" or "To return to the marker later", and then press **CLEAR**.
- Ejecting the disc or turning off the power will erase all markers.
- Selecting "AC" at step **2** in the section "To set a marker" or "To return to the marker later" will also erase all markers.
- You can mark up to 10 points.

REPEAT / RANDOM / PROGRAMMED PLAYBACK

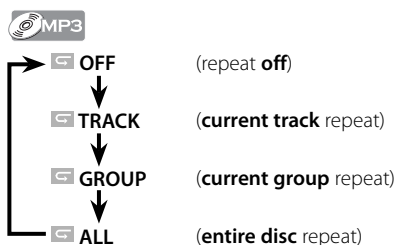
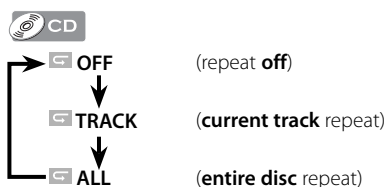
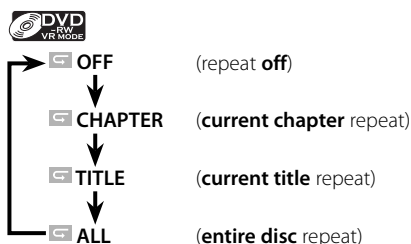
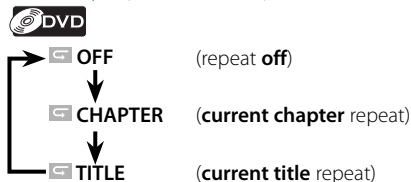
Repeat Playback



Repeat function is available only during playback.



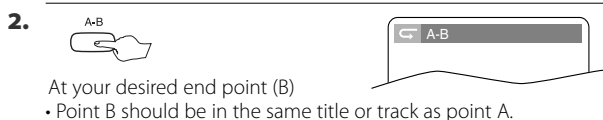
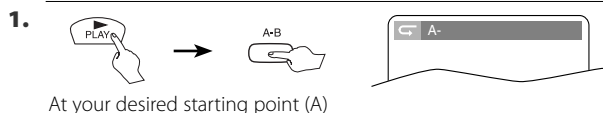
Each time you press **REPEAT**, repeat function changes as examples below.



Hint

- Repeat setting will be cleared when moving to another title, chapter, track or group.
- Repeat playback may not function with some discs or during Repeat A-B Playback.

Repeat A-B Playback



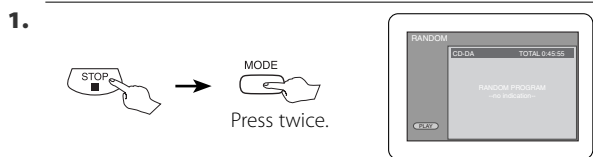
Hint

- To exit the sequence, press **A-B** so that "OFF" appears.
- To cancel Point A, press **CLEAR**.
- This function does not work in the other repeat modes.

Random Playback



This function shuffles the playing order of tracks instead of playback in the sequence.



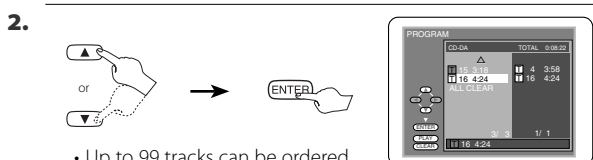
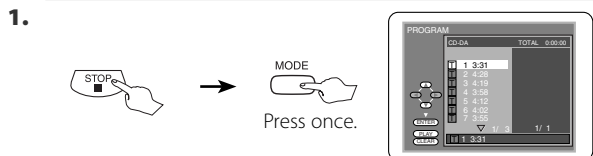
Hint

- To repeat the current track in the random selections, press **REPEAT** repeatedly until "**TRACK**" appears during playback.
- To repeat the entire random selections, press **REPEAT** repeatedly until "**ALL**" appears during playback.

Programmed Playback



You may determine the order in which tracks will play.



- Up to 99 tracks can be ordered.
- If 8 or more tracks were in a program, use **SKIP** (◀◀/▶▶) to see all the tracks.
- While a MP3 folder is open:
 - Press **Cursor** ▶ when you want to go to the next hierarchy.
 - Press **Cursor** ◀ when you want to go back to the previous hierarchy (except for the 1st hierarchy).
 - Press **TOP MENU** when you want to go back to the 1st hierarchy.



Hint



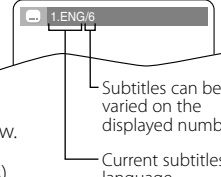
- Press **CLEAR** at step 2 to erase the most recently entered track.
- To erase all programmed tracks at once, select "ALL CLEAR" and press **ENTER** at step 2.
- While a program is being played back, **STOP** ■ works as follows:
 - Press **STOP** ■ and **PLAY** ▶ next, so that the programmed playback restarts. (CD playback restarts from the current point. MP3 playback restarts from the beginning of the current track.)
 - Press **STOP** ■ twice and **PLAY** ▶ next, so that playback restarts from the first track in the original order. However, your programmed playback can be restarted when you follow the above steps. (Your programs are still stored until either the disc is ejected or power is turned off.) On some discs, **STOP** ■ will not work while the Resume message appears. Please wait until the message disappears.
- To repeat the current track in the program, press **REPEAT** repeatedly until "**TRACK**" appears during playback.
- To repeat the entire program, press **REPEAT** repeatedly until "**ALL**" appears during playback.

SPECIAL SETTINGS

Subtitle Language

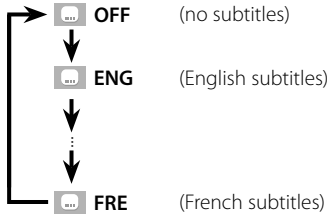


This unit allows you to select a subtitle language (if available) during DVD playback.



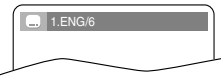
1.  →  → 

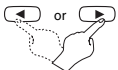

Subtitles can be varied on the displayed number.
Current subtitles language.

Each time you press **SUBTITLE**, subtitle language changes as example below.



To Set Subtitle ON/OFF

1.  →  → 

2.  or press **SUBTITLE** repeatedly until "OFF" appears. → 


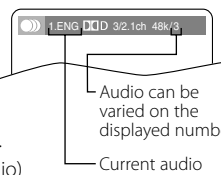
Hint

- If your language is not shown after pressing **SUBTITLE** several times, the disc may not have that language. However, some discs allow you to change subtitle languages setting in the disc menu. (Operation varies depending on the disc, so refer to the manual included in the disc.)
- When "NOT AVAILABLE" appears on the TV screen, it means no subtitle is recorded on the scene.
- If you choose a language that has 3-letter-language code, the code will be displayed every time you change the subtitle language setting. If you choose any other languages, "----" will be displayed instead. (Refer to page 19.)

Audio Language

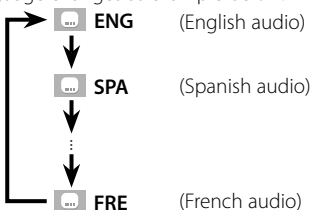


This unit allows you to select an audio language (if multiple languages are available) during DVD playback.

1.  →  → 

Audio can be varied on the displayed number.
Current audio language.

Each time you press **AUDIO**, audio language changes as example below.



Hint

- The sound mode cannot be changed during playback of discs not recorded in double sound.
- Audio language selection cannot be made during Rapid Play. (Refer to page 11.)
- If your language is not shown after pressing **AUDIO** several times, the disc may not have that language. However, some discs allow you to change multiple audio languages setting in the disc menu. (Operation varies depending on the disc, so refer to the manual included in the disc.)
- When "NOT AVAILABLE" appears on the TV screen, it means no audio is recorded on the scene.
- If you choose a language that has 3-letter-language code, the code will be displayed every time you change the audio language setting. If you choose any other languages, "----" will be displayed instead. (Refer to page 19.)

For VR mode only:

- Pressing **AUDIO** cycles the sound mode through MAIN, SUB, MAIN + SUB.
- DVD-RW discs recorded in double sound (2 languages) can be played back in either sound mode of MAIN, SUB or MAIN + SUB.
- With discs recorded in VR mode, changing the audio (MAIN, SUB or MAIN+SUB) is effective only when using an analog connection. Although you may be able to change the settings of the on-screen display, it will not affect the sound when using a digital connection.

Mode	AUDIO OUTPUT		Display on the TV screen
MAIN	L	Main Audio	MAIN
	R	Main Audio	
SUB	L	Sub Audio	SUB
	R	Sub Audio	
MAIN SUB	L	Main Audio	MAIN+ SUB
	R	Sub Audio	

Camera Angles





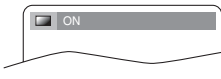
Some DVD discs may contain scenes which have been shot simultaneously from various angles. You can change the camera angle if "ANGLE" appears on the screen. If the ANGLE ICON setting is "OFF" in the OTHERS menu, "ANGLE" will not appear. (Refer to pages 16, 19.)

1.  →  → 


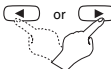

Black Level Setting




Adjust the Black Level Setting to make the dark areas of the TV picture brighter.

1.  →  → 

Press **MODE** repeatedly until "ON" appears.

2.  or  → 

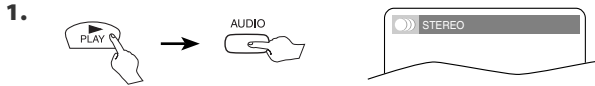
ON : Makes the dark areas brighter.
OFF : Shows the original picture as recorded.

3. 

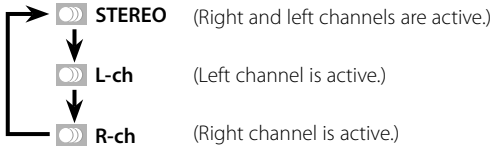
Stereo Sound Mode



This unit allows you to select a sound mode during CD playback.



Each time you press **AUDIO**, sound mode changes as example below.



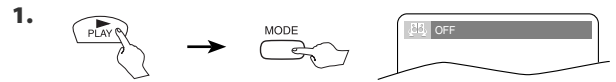
Hint

- Virtual Surround cannot be changed when the sound mode is set to either L-ch or R-ch.
- Stereo Sound Mode is not available on DTS CD.

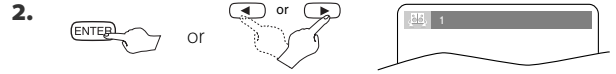
Virtual Surround



You can enjoy stereophonic virtual world on your existing 2 channel stereo system.



Press **MODE** repeatedly until "1" appears.



- 1 : Natural effect.
- 2 : Emphasized effect.
- OFF : No effects (original sound).



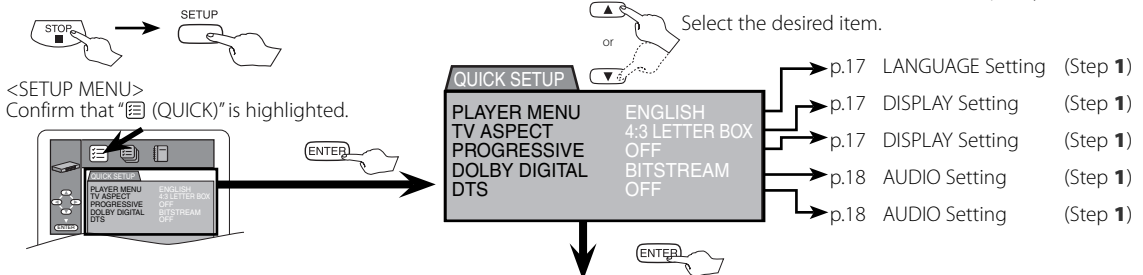
Hint

- The setting will be kept even if the unit is turned off.
- On Audio CDs, Virtual Surround will not be effective if the sound mode is set to something other than "STEREO". Refer to "Stereo Sound Mode".
- Turn down the level or select "OFF" if the sound is distorted.
- This function cannot be used during Rapid Play.

DVD SETUP

QUICK SETUP Menu

You can select the "PLAYER MENU", "TV ASPECT", "PROGRESSIVE", "DOLBY DIGITAL" or "DTS" from the QUICK SETUP menu quickly.

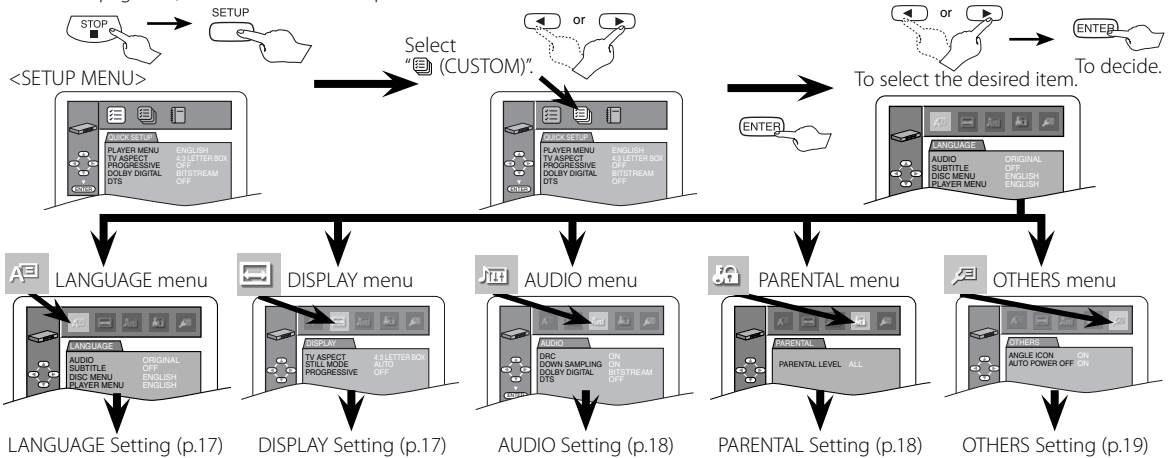


• Refer to the sections "PLAYER MENU", "TV ASPECT" or "PROGRESSIVE" on page 17 and "DOLBY DIGITAL" or "DTS" on page 18.

CUSTOM Menu

You can change the settings of the unit.

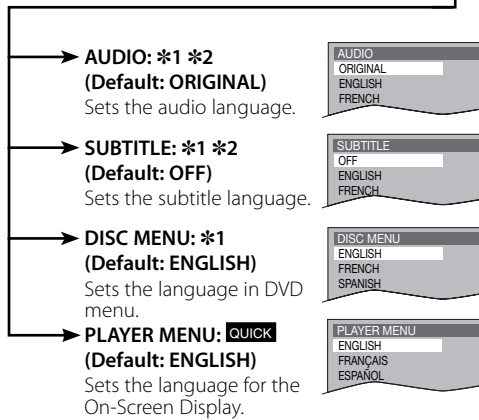
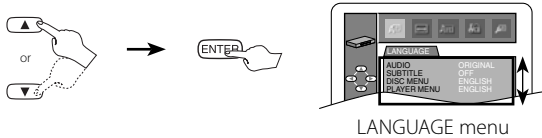
- **QUICK** on pages 17, 18 indicates DVD Setup menus also accessible from the QUICK SETUP menu.



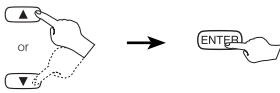
LANGUAGE Setting

Follow the steps in the "CUSTOM Menu" on page 16.

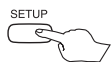
1. Select the desired item.



2. Select the desired language.



3. To exit the menu.



Hint

*1

- Language options are not available with some discs.
- If "OTHER" is selected in the AUDIO, SUBTITLE or DISC MENU screen, press four-digit number to enter the code for the desired language. (Refer to "LANGUAGE LIST" on page 19.)
- Only the languages supported by the disc can be selected.

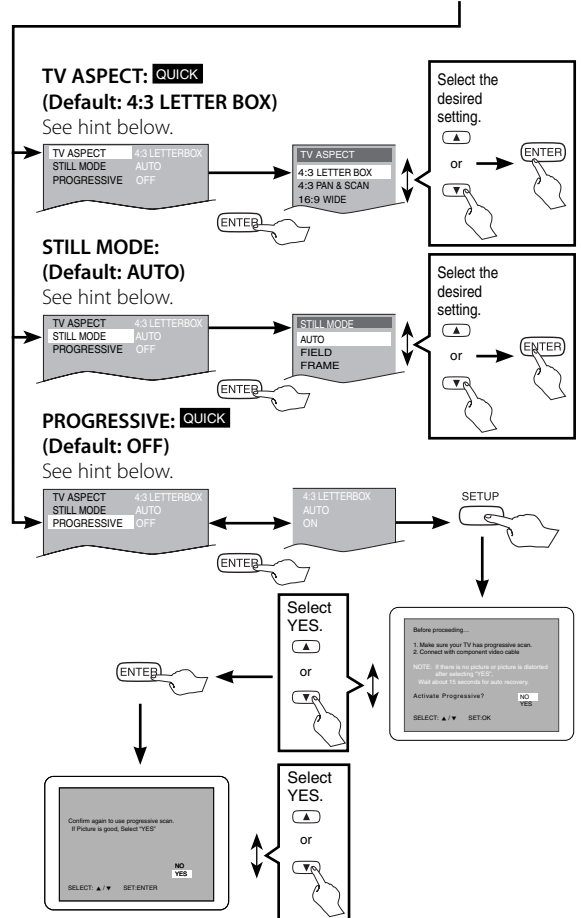
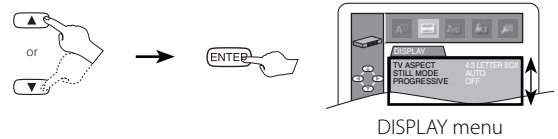
*2

- Language Setting for Audio and Subtitle are not available with some discs. Then use **AUDIO** and **SUBTITLE**. Details are on page 15.

DISPLAY Setting

You can change the display functions. Follow the steps in the "CUSTOM Menu" on page 16.

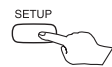
1. Select the desired item.



2. To confirm the PROGRESSIVE.
 - The PROGRESSIVE indicator on the front panel lights on.



To exit the TV ASPECT or STILL MODE screen.



Hint

TV ASPECT:

- Select "4:3 LETTER BOX", so that black bars may appear on the top and bottom of the screen.
- Select "4:3 PAN & SCAN" for a full height picture with both sides adjusted.
- Select "16:9 WIDE" if a wide-screen TV is connected to this unit.

STILL MODE:

- Select "AUTO" usually.
- If you select "FIELD", the picture in the still mode will be stabilized.
- If you select "FRAME", the picture in the still mode will be highly defined.

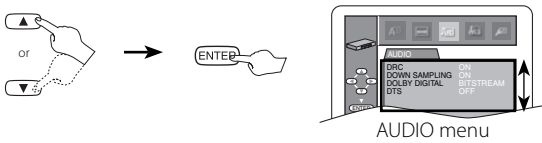
PROGRESSIVE:

- You can set "PROGRESSIVE" to "OFF" either in the DISPLAY menu or by pressing and holding **PLAY** ► on the front of the unit for more than 5 seconds, so that the PROGRESSIVE indicator on the front panel lights off.
- When "PROGRESSIVE" is "ON", video signals from the unit's VIDEO OUT and S-VIDEO OUT jacks will be distorted or not be output at all.

AUDIO Setting

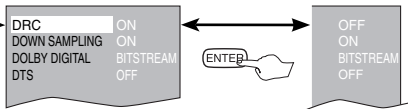
Choose the appropriate audio settings for your equipments. It only affects during the playback of DVD discs. Follow the steps in the "CUSTOM Menu" on page 16.

1. Select the desired item.



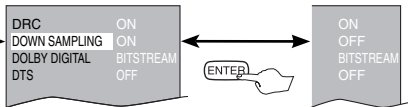
DRC (Dynamic Range Control): (Default: ON)

Set to "ON" to compress the range between soft and loud sounds.



DOWN SAMPLING: (Default: ON)

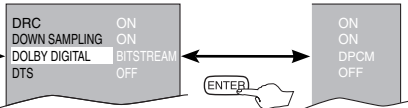
Set to "ON" when outputting in 48 kHz. Set to "OFF" when outputting the original sound.



DOLBY DIGITAL: QUICK (Default: BITSTREAM)

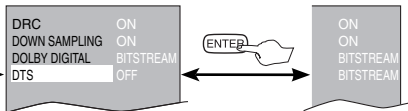
Set to "BITSTREAM" when the unit is connected to a Dolby Digital receiver.

- BITSTREAM: Outputs a Dolby Digital Signals.
- DPCM: Convert the Dolby Digital into DPCM (2 channel).

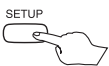


DTS: QUICK (Default: OFF)

Set to "BITSTREAM" when the unit is connected to DTS decoder.



2. To exit the menu.



Hint

DRC:

- This function is available only to the discs which are recorded in the Dolby Digital format.

DOWN SAMPLING:

- When playing back a 96 kHz disc with the copyright protection or when Virtual Surround is set to 1 or 2, the sound will be down sampled at 48 kHz and output as digital audio even if the "DOWN SAMPLING" is set to "OFF".
- This function is available only on digital outputting of a disc recorded in 96 kHz.

PARENTAL Setting

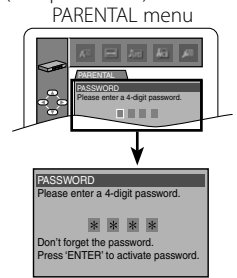
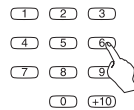
Parental Control limits the disc viewing that exceed your settings. (An incorrect password will not play.)

This feature prevents your children from viewing inappropriate materials.

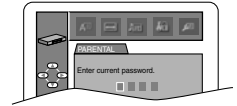
Parental Levels

Parental Level allows you to set the rating levels of your DVD discs. Playback will stop if the ratings exceed the levels you set. Follow the steps in the "CUSTOM Menu" on page 16.

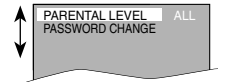
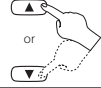
1. Enter your desired four-digit password (except for 4737).



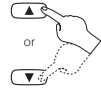
If you have set a password already, enter the current four-digit password.



2. Select "PARENTAL LEVEL".



3. Select the desired level.



4. To exit the menu.



CONTROL LEVELS

- ALL: All parental locks are cancelled.
- Level 8: DVD softwares of any grades (adult/general/children) can be played back.
- Levels 7 to 2: Only DVD softwares intended for general use and children can be played back.
- Level 1: Only DVD softwares intended for children can be played back, with those intended for adult and general use prohibited.

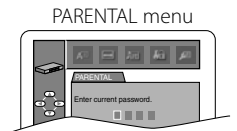
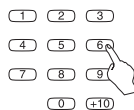
Hint

- DVD-Video discs may not respond to the parental lock settings. Make sure this function works with your DVD-Video discs.

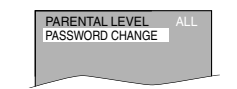
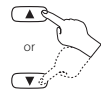
To Change the Password for Parental Controls

You can change your password for parental controls. Follow the steps in the "CUSTOM Menu" on page 16.

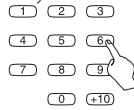
1. Enter your four-digit password.



2. Select "PASSWORD CHANGE".



3. Enter your new four-digit password (except for 4737).



4. To exit the menu.



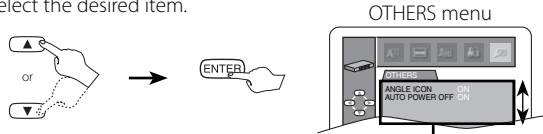
Hint

- Record the password in case you forget it.
- If you forget the password, press **4, 7, 3, 7** at step 1, then enter your new password.
- Password will be cleared and parental levels will be set to "ALL".

OTHERS Setting

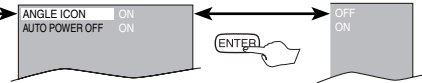
You can change the other functions. Follow the steps in the "CUSTOM Menu" on page 16.

1. Select the desired item.



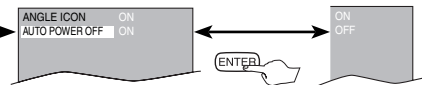
ANGLE ICON: (Default: ON)

Set to "ON" to show the angle icon when multiple camera angles are available during DVD playback.

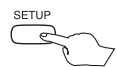


AUTO POWER OFF: (Default: ON)

Set to "ON" to turn this unit off automatically after 30 minutes of no use.



2. To exit the menu.



Reset to the Default Setting (except for PARENTAL Setting)

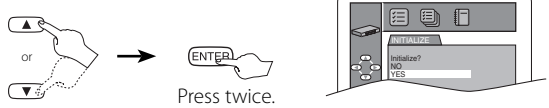
1. Select the desired item.



2. Select "INITIALIZE".



3. Select "YES".



4. To exit the menu.



Hint

- When you cancel to initialize at step 3, select "NO".

INFORMATION

LANGUAGE LIST

Language	Code	Language	Code	Language	Code	Language	Code
A-B		French [FRE]	5264	Macedonian	5957	Siswat	6565
Abkhazian	4748	Frisian	5271	Malagasy	5953	Slovak	6557
Afar	4747	Galician	5358	Malay	5965	Slovenian	6558
Afrikaans	4752	Georgian	5747	Malayalam	5958	Somali	6561
Albanian	6563	German [GER]	5051	Maltese	5966	Spanish [SPA]	5165
Amharic	4759	Greek [GRE]	5158	Maori	5955	Sundanese	6567
Arabic	4764	Greenlandic	5758	Marathi	5964	Swahili	6569
Armenian	5471	Guarani	5360	Moldavian	5961	Swedish [SWE]	6568
Assamese	4765	Gujarati	5367	Mongolian	5960	T	
Aymara	4771	Hausa	5447	Nauru	6047	Tagalog	6658
Azerbaijani	4772	Hebrew	5569	Nepali	6051	Tajik	6653
Bashkir	4847	Hindi	5455	Norwegian [NOR]	6061	Tamil	6647
Basque	5167	Hungarian [HUN]	5467	O-R		Tatar	6666
Bengali;Bangla	4860	I-K		Occitan	6149	Telugu	6651
Bhutani	5072	Icelandic [ICE]	5565	Oriya	6164	Thai	6654
Bihari	4854	Indonesian	5560	Oromo(Afan)	6159	Tibetan	4861
Bislama	4855	Interlingua	5547	Panjabi	6247	Tigrinya	6655
Breton	4864	Interlingue	5551	Pashto;Pushhto	6265	Tonga	6661
Bulgarian	4853	Inupiak	5557	Persian	5247	Tsonga	6665
Burmese	5971	Irish [IRI]	5347	Polish	6258	Turkish [TUR]	6664
Byelorussian	4851	Italian [ITA]	5566	Portuguese [POR]	6266	Turkmen	6657
C-E		Japanese [JPN]	5647	Quechua	6367	Twi	6669
Cambodian	5759	Javanese	5669	Rhaeto-Romance	6459	U-Z	
Catalan	4947	Kannada	5760	Romanian [RUM]	6461	Ukrainian	6757
Chinese [CHI]	7254	Kashmiri	5765	Russian [RUS]	6467	Urdu	6764
Corsican	4961	Kazakh	5757	S		Uzbek	6772
Croatian	5464	Kinyarwanda	6469	Samoa	6559	Vietnamese	6855
Czech	4965	Kirghiz	5771	Sangho	6553	Volapuk	6861
Danish [DAN]	5047	Kirundi	6460	Sanskrit	6547	Welsh	4971
Dutch [DUT]	6058	Korean [KOR]	5761	Scots Gaelic	5350	Wolof	6961
English [ENG]	5160	Kurdish	5767	Serbian	6564	Xhosa	7054
Esperanto	5161	L-N		Serbo-Croatian	6554	Yiddish	5655
Estonian	5166	Laothian	5861	Sesotho	6566	Yoruba	7161
F-H		Latin	5847	Setswana	6660	Zulu	7267
Faroese	5261	Latvian;Lettish	5868	Shona	6560		
Fiji	5256	Lingala	5860	Sindhi	6550		
Finnish [FIN]	5255	Lithuanian	5866	Singhalese	6555		

If you choose a language that has a 3 letter language code, the code will be displayed every time you change the Audio or Subtitle Language setting on page 15. If you choose any other languages, "----" will be displayed instead. (3 letter language code is written in bracket.)

SPECIFICATIONS

PRODUCT TYPE

DVD Video Player

DISCS (PLAYBACK COMPATIBILITY)

DVD-Video / DVD-RW/-R / DVD+RW/+R / Audio CD / CD-RW/-R

FREQUENCY RESPONSE

DVD (linear sound) : 20 Hz to 22 kHz (sample rate: 48 kHz)
20 Hz to 44 kHz (sample rate: 96 kHz)

CD : 20 Hz to 20 kHz

SIGNAL-TO-NOISE RATIO (S/N RATIO)

CD : 120 dB (JEITA)

DYNAMIC RANGE

DVD (linear sound) : 102 dB

CD : 99 dB (JEITA)

TOTAL DISTORTION FACTOR

DVD : 1 KHz 0.0045% (JEITA)

CD : 1 KHz 0.0035% (JEITA)

WOW AND FLUTTER

Below the measurement limitation (+/-0.001% W PEAK) (JEITA)

CONNECTIONS

Video output	One RCA connector, 1 Vpp (75 Ω)
Component video output	One pin jack (Y), 1 Vpp (75 Ω) Two pin jacks (Cr/Pc, Cb/Pb), 700 mVpp (75 Ω)
S-video output	Mini DIN 4-pin jack (75 Ω)
Analog audio output	Two RCA connectors (one left channel, one right channel) 2 Vrms (47 kΩ)
Coaxial digital audio output	One pin jack, 500 mVpp (75 Ω)

POWER SOURCE

120 V ~ +/- 10%, 60 Hz +/- 0.5%

POWER CONSUMPTION

10 W (standby: 0.8 W)

OPERATING TEMPERATURE

41 F° to 104 F° (5 °C to 40 °C)

DIMENSIONS

W: 2.5 inch (62 mm) H: 9.8 inch (248.5 mm) D: 9.4 inch (238 mm)

WEIGHT

Approx 2.9 lbs. (1.3 kg)

• Designs and specifications are subject to change without notice.

TROUBLESHOOTING GUIDE

If this unit does not perform properly when operated as instructed in this Operation Manual, check this unit consulting the following checklist.

PROBLEM	CORRECTIVE ACTION
No power.	<ul style="list-style-type: none"> • Make sure the power plug is connected to an AC outlet. • Make sure the power is turned on.
The unit turns off suddenly.	<ul style="list-style-type: none"> • Check if the "AUTO POWER OFF" is set to "OFF".
This unit does not respond to the remote control.	<ul style="list-style-type: none"> • Check if the power plug is connected to an AC outlet. • Check the batteries in the remote control. • Aim the remote control directly at the remote sensor. If necessary, remove all the obstacles between the sensor and the remote. • You have to be within 23 feet (7 m) of this unit.
No picture.	<ul style="list-style-type: none"> • Connect the video cable firmly. • Insert a correct video disc that plays on this unit.
Disc cannot be played.	<ul style="list-style-type: none"> • Insert the disc. • Clean the disc. • Insert the disc correctly with the label facing to the left when the unit is installed vertically. • Insert the disc correctly with the label facing up when the unit is installed horizontally. • Cancel the parental lock or change the control levels. • Handle a disc with special care so that it does not have fingerprints, scratches, or dusts on its surface. • If the recorded portion of the disc is too small (less than 2 3/16 inches (55 mm)), it may not play back properly.
No sound.	<ul style="list-style-type: none"> • Connect the audio cable firmly. • Turn the power of the audio component on. • Correct the audio output settings. • Correct the input settings on the audio component.
No DTS audio is output.	<ul style="list-style-type: none"> • Use a DIGITAL AUDIO OUT jack when outputting the DTS audio.
Distorted picture.	<ul style="list-style-type: none"> • Connect this unit directly to the TV. • There are some cases where picture may be slightly distorted, and those are not a sign of a malfunction. • During the playback of a 2-layered disc, pictures may stop for a moment. This happens while the 1st layer is being switched to the 2nd layer. This is not a malfunction. • Check if the INTERLACE/PROGRESSIVE mode is set correctly according to your TV. See page 8. • This happens right after fast forwarding or rewinding. This is not a malfunction.
Audio or subtitle language does not match the set up.	<ul style="list-style-type: none"> • The selected language is not available for audio or subtitles on the DVD. This is not a malfunction.
The camera angle cannot be changed.	<ul style="list-style-type: none"> • The DVD does not contain sequences recorded from different camera angles. This is not a malfunction.
Audio or subtitle language cannot be changed.	<ul style="list-style-type: none"> • The DVD does not contain audio source or subtitles in the selected language. This is not a malfunction.
"Prohibited icon" appears on the screen, prohibiting an operation.	<ul style="list-style-type: none"> • That operation is prohibited by this unit or the disc. This is not a malfunction.

- Some functions are not available in specific modes, but this is not a malfunction. Read the description in this Operation Manual for details on correct operations.
- Playback from a desired track and random playback are not available during programmed playback.
- Some functions are prohibited on some discs.

SERVICE INFORMATION (FOR THE U.S.)

For the location of the nearest SHARP Authorized Service Center, or to obtain product literature, accessories, supplies or customer assistance, please call **1-800-BE-SHARP** (1-800-237-4277) or visit SHARP's website (<http://www.sharppusa.com>).

ESPAÑOL

Para uso del cliente:

Para futura referencia, anote los números de modelo y de serie (indicados en la parte posterior esta unidad) en el espacio provisto.

Nº de modelo: _____ DV-MX1U _____

Nº de serie: _____

AVISO: PARA REDUCIR EL RIESGO DE INCENDIO O ELECTROCHOQUE NO EXPONGA ESTE APARATO A LA HUMEDAD.

PRECAUCIÓN: PARA EVITAR DESCARGAS ELÉCTRICAS, HAGA QUE LA PALETA ANCHA DEL ENCHUFE COINCIDA CON LA RANURA ANCHA E INTRODÚZCALA HASTA EL FONDO.



PRECAUCION
PELIGRO DE DESCARGA ELECTRICA NO
ABRIR DECLARACION DE CONFORMIDAD



PRECAUCION:

TPARA REDUCIR EL RIESGO DE DESCARGA ELECTRICA, NO QUITE LA CUBIERTA. EL USUARIO NO DEBERA DAR NINGUN TIPO DE SERVICIO A NINGUNA PARTE INTERNA. DEBERA SER REALIZADO SOLO POR PERSONAL DE SERVICIO CALIFICADO.



Este símbolo previene al usuario del voltaje aislado dentro de la unidad que puede provocar descargas eléctricas peligrosas.



Este símbolo advierte al usuario que existen instrucciones de operación y de mantenimiento en la literatura incluida en esta unidad.

“ADVERTENCIA—Las reglas de la FCC (Comisión Federal de Comunicaciones) estipulan que cualquier modificación o cambio a este equipo no aprobado expresamente por el fabricante podrá anular la autorización del usuario para operar este equipo”.

Este dispositivo cumple con la Parte 15 de las reglas de la FCC (Comisión Federal de Comunicaciones). La operación se encuentra sujeta a las dos condiciones siguientes:

- (1) Este dispositivo no debería producir interferencias perjudiciales, y
- (2) este dispositivo debe aceptar cualquier interferencia recibida, incluyendo las que puedan producir una operación indeseable.

INFORMACION

Este equipo se ha sometido a todo tipo de pruebas y cumple con las normas establecidas para dispositivo digital de Clase B, de conformidad con la Parte 15 de las reglas de la FCC (Comisión Federal de Comunicaciones). Estas reglas están diseñadas para asegurar una protección razonable contra interferencias perjudiciales en las instalaciones residenciales. Este equipo genera, utiliza y puede emitir energía de radiofrecuencia y, si no se instala y utiliza debidamente, es decir, conforme a las instrucciones, podrían producirse interferencias perjudiciales en las radiocomunicaciones. Sin embargo, no se garantiza que estas interferencias no se produzcan en una instalación determinada. Si este equipo ocasiona interferencias en la recepción de radio o televisión, lo cual puede comprobarse con sólo apagar y encender el equipo, intente corregir el problema mediante una o una combinación de las siguientes medidas:

- Reoriente la antena receptora o cámbiela de lugar.
- Aumente la separación entre el equipo y el receptor.
- Enchufe el equipo a una toma de corriente situada en un circuito distinto del receptor.
- Consulte a su distribuidor o a un técnico experto en radio/televisión.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Este aparato digital de la Clase B cumple con la norma ICES-003 de Canadá.

PRECAUCION:

ESTA UNIDAD HA SIDO CLASIFICADA COMO PRODUCTO CLASS 1 LASER.

EL USO DE MANDOS O AJUSTES O LA REALIZACION DE PROCEDIMIENTOS DISTINTOS DE LOS INDICADOS EN LA PRESENTE IMPLICA EL RIESGO DE EXPOSICION A UNA RADIACION PELIGROSA.

COMO LOS RAYOS LASER UTILIZADOS EN ESTA UNIDAD PUEDEN RESULTAR PERJUDICIALES PARA SUS OJOS, NO INTENTE DESARMAR EL GABINETE. SOLICITE EL SERVICIO UNICAMENTE A PERSONAL CUALIFICADO.

Los productos que han ganado la marca ENERGY STAR® han sido diseñados para proteger el medio ambiente mediante una eficiencia superior en el uso de la energía.

IMPORTANTES MEDIDAS DE SEGURIDAD Y PRECAUCIONES

- 1) Lea las instrucciones - Lea detenidamente todas las instrucciones de seguridad y operación antes de usar el producto.
- 2) Conserve las instrucciones - Conserve las instrucciones de seguridad y operación para consultas futuras.
- 3) Respete las advertencias - Observe estrictamente todas las advertencias impresas en el producto y las incluidas en el manual de instrucciones.
- 4) Siga las instrucciones - Siga todas las instrucciones de operación.
- 5) Limpieza - Desconecte el producto del tomacorriente mural antes de limpiarlo. No use limpiadores líquidos ni aerosol. Use un paño húmedo para la limpieza del producto.
- 6) Enchufes - No use enchufes no recomendados por el fabricante del producto, ya que podría ser peligroso.
- 7) Agua y humedad - No use este producto cerca del agua, por ejemplo, cerca de una bañera o lavamanos, cerca del fregadero de la cocina o lavandería, en un piso mojado, cerca de una piscina, etc.
- 8) Accesorios - No instale este producto en un carro, soporte, trípode o mesa inestables. El grabador de videocassettes podría caerse, causando serias lesiones a un niño o adulto, resultando también severamente dañado. Uselo sólo en un carro, soporte, trípode o mesa recomendados por el fabricante, o vendidos con el producto. Toda instalación del producto deberán hacerse de acuerdo a las instrucciones del fabricante, empleando los accesorios de instalación recomendados por el mismo.
- 9) La combinación de producto y carro debe ser movida con cuidado. Las detenciones bruscas, la fuerza excesiva y las superficies dispares harán que el producto y el carro se vuelquen.
- 10) Ventilación - El gabinete del producto tiene ranuras y aberturas de ventilación que garantizan el funcionamiento confiable del producto, evitando que se recaliente. Estas aberturas no deberán ser bloqueadas, nunca se debe instalar el grabador de videocassettes encima de una cama, sofá, alfombra u otra superficie similar. El grabador de videocassettes no debe ser instalado en un mueble empujable, como una repisa para libros o bastidor, a menos que se pueda garantizar una ventilación adecuada, o cuando las instrucciones del fabricante así lo especifiquen.
- 11) Alimentación - Este grabador de videocassettes sólo debe ser operado mediante el tipo de fuente de alimentación especificado en la etiqueta indicadora. Si no se usa el tipo de fuente de alimentación que tiene en su casa, consulte a su distribuidor o a la compañía de electricidad local. En el caso de grabador de videocassettes diseñados para funcionar a pilas o con otras fuentes de alimentación, consulte el manual de instrucciones respectivo.
- 12) Conexión a tierra o polarización - Este producto está equipado con una clavija polarizada de corriente alterna (una clavija que tiene una espiga más ancha que la otra). Esta clavija solamente podrá ser insertada en el tomacorriente en una sola dirección. Esta es una medida de seguridad. Si no pudiera insertar completamente la clavija en el tomacorriente, vuelva a intentarlo invirtiendo la clavija. Si aún no fuera posible insertar la clavija, tome contacto con un electricista para que repare su tomacorriente obsoleto. No modifique las características de seguridad de la clavija polarizada.
- 13) Protección del cable de alimentación - Los cables de alimentación deberán ser tendidos de manera tal que la probabilidad de que sean pisados o aplastados por otros objetos sea mínima. Preste especial atención a las clavijas de los cables, a los receptáculos, y al punto por donde salen del producto.
- 14) Tormentas eléctricas - Como medida adicional de protección durante tormentas eléctricas, o cuando el producto permanezca sin uso durante períodos prolongados de tiempo, desconéctelo del tomacorriente mural y desconecte la antena o sistema de cable. Esto evitará que el grabador de videocassettes resulte dañado por tormentas eléctricas o sobretensiones en la línea de alimentación.
- 15) Líneas de alimentación - Una antena exterior no debe ser instalada en la cercanía de líneas de alimentación aéreas ni de otros circuitos de potencial para iluminación eléctrica, o donde pueda caerse y hacer contacto con tales líneas o circuitos. Al instalar un sistema de antena exterior, entienda mucho cuidado de no tocar tales líneas o circuitos de alimentación, ya que el contacto con ellos podría ser fatal.
- 16) Sobrecarga - No sobrecargue los tomacorrientes murales ni los cables de extensión, ya que esto podría causar incendios o descargas eléctricas.
- 17) Entrada de objetos y líquidos - Nunca introduzca objetos de ningún tipo por las aberturas de este producto, ya que podría tocar peligrosos puntos de alta tensión o cortocircuitar partes, provocando incendios o descargas eléctricas. Nunca derrame ningún tipo de líquido sobre el producto.
- 18) Servicio - No intente reparar el producto usted mismo; al abrir o desmontar las coberturas usted se expondrá a alta tensión y a otros peligros. Solicite todo servicio a personal calificado.
- 19) Daños que requieran reparación - En los siguientes casos, desconecte el producto del tomacorriente mural y llame a un técnico de servicio calificado:
 - a) Cuando el cable de alimentación o la clavija estén dañados,
 - b) Si se ha derramado líquido sobre la unidad, o si algún objeto ha caído dentro del producto,
 - c) Si el producto ha sido expuesto a la lluvia o al agua,
 - d) Cuando a pesar de haber seguido las instrucciones de operación, el producto no funciona normalmente. Ajuste solamente los controles mencionados en el manual de instrucciones; el ajuste incorrecto de otros controles podrá causar daños a la unidad, la que por lo general requerirá de un prolongado trabajo de reparación (por un técnico calificado) para que sus condiciones normales de operación puedan ser restablecidas,
 - e) Si el producto se ha caído o si el gabinete se ha dañado.
 - f) Cuando el producto muestre un cambio notorio en su rendimiento.
- 20) Piezas de reemplazo - Cuando sea necesario reemplazar piezas, asegúrese de que el técnico de servicio emplee las piezas de reemplazo especificadas por el fabricante, o piezas que tengan las mismas características que las piezas originales. Las sustituciones no autorizadas podrán causar incendios, descargas eléctricas y otros problemas.
- 21) Revisión de seguridad - Al finalizar cualquier servicio de mantenimiento o reparación de este producto, solicite al técnico que efectúe comprobaciones de seguridad para determinar si el producto se encuentra o no en condiciones óptimas de operación.
- 22) Calor - Este producto debe colocarse fuera del alcance de fuentes de calor tales como radiadores, rejillas de calefacción, estufas o cualquier otro producto destinado a producir calor, incluyendo los amplificadores.

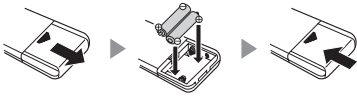
ADVERTENCIA SOBRE EL USO DE CARROS PORTÁTILES



Conexiones

Si su televisor tiene entradas de AUDIO/VIDEO vea la sección "Connection to a TV" en la página 8 en el Manual de Manejo, En caso contrario, vea la sección "RF Modulator Connection" en la página 8 en el Manual de Manejo.

Instalación de las pilas en el mando a distancia



Para cambiar el idioma en la pantalla

- Confirme que ha seleccionado "QUICK".
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- Confirme que ha seleccionado "PLAYER MENU".
- Seleccione el idioma deseado para las indicaciones en la pantalla.
- Para salir del menú.

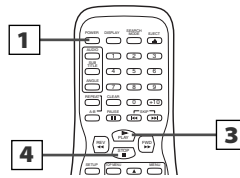
Reproducción

Antes:

Encienda el televisor, amplificador y otros equipos conectados a esta unidad. Asegúrese que el televisor y el sintonizador de audio (de venta en los comercios) están en el canal correcto.



-
- Ponga un disco con la etiqueta hacia izquierda.
- Para empezar la reproducción.
- Para parar la reproducción.



Mando a distancia

Tipo de disco	DVD	DVD-RW/VR MODE	CD	MP3
Botón (Orden alfabético)				
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CONSUMER LIMITED WARRANTY

(Valid for warranty service in the U.S. only)

SHARP ELECTRONICS CORPORATION warrants to the first consumer purchaser that this Sharp brand product (the "Product"), when shipped in its original container, will be free from defective workmanship and materials, and agrees that it will, at its option, either repair the defect or replace the defective Product or part thereof with a new or remanufactured equivalent at no charge to the purchaser for parts or labor for the period(s) set forth below.

This warranty does not apply to any appearance items of the Product nor to the additional excluded item(s) set forth below nor to any Product the exterior of which has been damaged or defaced, which has been subjected to improper voltage or other misuse, abnormal service or handling, or which has been altered or modified in design or construction.

In order to enforce the rights under this limited warranty, the purchaser should follow the steps set forth below and provide proof of purchase to the servicer.

The limited warranty described herein is in addition to whatever implied warranties may be granted to purchasers by law. ALL IMPLIED WARRANTIES INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE LIMITED TO THE PERIOD(S) FROM THE DATE OF PURCHASE SET FORTH BELOW. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

Neither the sales personnel of the seller nor any other person is authorized to make any warranties other than those described herein, or to extend the duration of any warranties beyond the time period described herein on behalf of Sharp.

The warranties described herein shall be the sole and exclusive warranties granted by Sharp and shall be the sole and exclusive remedy available to the purchaser. Correction of defects, in the manner and for the period of time described herein, shall constitute complete fulfillment of all liabilities and responsibilities of Sharp to the purchaser with respect to the Product, and shall constitute full satisfaction of all claims, whether based on contract, negligence, strict liability or otherwise. In no event shall Sharp be liable, or in any way responsible, for any damages or defects in the Product which were caused by repairs or attempted repairs performed by anyone other than an authorized servicer. Nor shall Sharp be liable or in any way responsible for any incidental or consequential economic or property damage. Some states do not allow the exclusion of incidental or consequential damages, so the above exclusion may not apply to you.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS. YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Model Specific Section

Your Product Model Number & Description: DV-MX1U DVD Video Player

(Be sure to have this information available when you need service for your Product.)

Warranty Period for this Product: One (1) year parts and ninety (90) days labor from date of purchase.

Additional Item(s) Excluded from warranty Coverage (if any): Non-rechargeable batteries.

Where to Obtain Service: Call Sharp Electronics corporation toll free at 1-800-BE-SHARP for instructions on how to obtain service on your DVD player.

What to do to Obtain Service: Ship your product, prepaid, as per the instruction given by the Sharp representative at the toll free number (1-800-BE-SHARP). BE sure to have your proof of purchase available. Be sure to ship the product securely packaged and insured against shipping damage.

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Osaka, Japan

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