# **TOSHIBA**

FILE NO. 810-200638GR

# SERVICE MANUAL

COLOR STREAM® HD









THEATERWIDE TO HOME LC VD



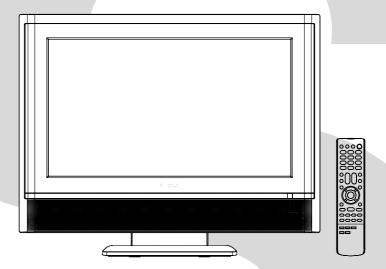






# LCD TV/DVD COMBINATION

# 20HLV86



The above model is classified as a green product (\*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (\*2).

For (\*1) and (\*2), see the next page.

### (\*1) GREEN PRODUCT PROCUREMENT

The EC is actively promoting the WEEE & RoHS Directives that define standards for recycling and reuse of Waste Electrical and Electronic Equipment and for the Restriction of the use of certain Hazardous Substances. From July 1, 2006, the RoHS Directive will prohibit any marketing of new products containing the restricted substances.

Increasing attention is given to issues related to the global environmental. Toshiba Corporation recognizes environmental protection as a key management tasks, and is doing its utmost to enhance and improve the quality and scope of its environmental activities. In line with this, Toshiba proactively promotes Green Procurement, and seeks to purchase and use products, parts and materials that have low environmental impacts.

Green procurement of parts is not only confined to manufacture. The same green parts used in manufacture must also be used as replacement parts.

### (\*2) LEAD-FREE SOLDER

This product is manufactured using lead-free solder as a part of a movement within the consumer products industry at large to be environmentally responsible. Lead-free solder must be used in the servicing and repair of this product.

### WARNING

This product is manufactured using lead free solder.

### DO NOT USE LEAD BASED SOLDER TO REPAIR THIS PRODUCT!

The melting temperature of lead-free solder is higher than that of leaded solder by 86°F to 104°F (30°C to 40°C). Use of a soldering iron designed for lead-based solders to repair product made with lead-free solder may result in damage to the component and or PCB being soldered. Great care should be made to ensure high-quality soldering when servicing this product — especially when soldering large components, through-hole pins, and on PCBs — as the level of heat required to melt lead-free solder is high.

# **TOSHIBA** OWNER'S MANUAL LCD TV/DVD Combination COLOR STREAM HID DIRECTAL HOME Owner's Record The model number and serial number are on the back of your TV/DVD. Record these numbers in the spaces below Refer to these numbers whenever you communicate with 20HLV86 your Toshiba dealer about this TV/DVD. Model number: © 2006 TOSHIBA CORPORATION

### TOSHIBA AMERICA CONSUMER PRODUCTS, L.L.C. **Head Office**

82 Totowa Road, Wayne, NJ 07470 National Service Division 1420B Toshiba Drive, Lebanon, TN 37087

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LC) VD" and GameTimer are trademarks of Toshiba America Consumer Products, L.L.C.

### **TOSHIBA**



Printed in Thailand

Always read and understand the **PRODUCT WARNINGS and USER DIRECTIONS** that are contained in this manual before attempting to use your television, to help ensure its safe use. Always store this manual near your television for convenient futur reference.

rchasing this Toshiba television. THAILIN, YOU FOUR PURCHASHING THIS LOSHIDA ELEVASION.

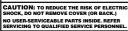
YOU must carefully read and understand all of the safety instructions contained in this manual before you attempt to use this product in order to avoid potential hazards that could cause bodily injury or property damage or could damage your Television.

# Safety Precautions



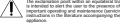








The lightning flash with arrowhead symbol, within equilateral thangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to necrose





ARNING: If you decide to wall mount this television, always use UL-approved wall bracket appropriate for the size and weight of is felevision. The use of any wall bracket other than a UL-proved wall bracket appropriate for the size and weight of the use of the propriate for the size and weight of this levision for wall mounting this television could result in serious drily injury and/or property damage.

This is a reminder to call the CATV system installer's attention to Article 822-04 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be cable entry as practical. For additional antenna grounding information see item 27 on page 5.

# **Child Safety**



causing unnecessary injury

Toshiba Cares!

Tune Into Safety

- One size does NOT it 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 fut to the wall (but never screw anything directly into the TV).



FCC compliance information

CAUTION: TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE
OR OTHER CULTE INLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

Federal Communications Commission (FCC):
The equipment complies with Part 15 of the FCC rules.

FCC Declaration of Conformity Compliance Statement (Part 15):
The Toshba 20HUSB, LCD TVIXIVD Combination 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 neceived, including interference that may cause undesired operation.

The party responsible for compliance to these rules is:
Toshba America Consensure Products, LLC.

82 Totowa RX Wayne, NJ 07470.

PM: (800) 831-3811 or visit TACP's website at www.tacp.Toshiba.com

NOTE:
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 and for equipment generates and the interference in the interference will not cover in a particular installation. This equipment of cover in a particular installation in the interference in the cover in a particular installation in the interference in the cover in a particular installation. This equipment does cause harmful interference to radio or television reception, which can be determined by removing and applying power to the equipment, the user is encouraged to try to correct the interference by one or more of the following measures:

- Roorient or relocate the receiving antenna.

- Increase the separation between the equipment and the receiver.

- Connect the equipment into an outlet on a circuit different from that to which the service such that interference to radio or an experienced radio or the height previous and the user's authority to op

-(

CAUTION: THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM. TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNERS MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION.

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. WISIBLE LASER RADIATION
MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO
NOT STARE INTO BEAM.



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

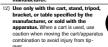
### ON DISPOSAL

This product contains mercury. Disposal of mercury may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industrial Alliance: www.eiae.org.

### IMPORTANT SAFEGUARDS Important Safety Instructions

- Read these instructions. Keep these instructions. Heed all warnings. Follow all instructions.
- Do not use this apparatus near water.
   Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- On not defeat the safety purpose of the polarized or grounding type plus. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wider blade or the thirty of the provided plug does not fit into your provided plug does not fit into your outlet consult are 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 they exit from the apparatus.









14) Refer all servicing to qualified service person 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,

exposed to rain or moisture, does not operate normally or has been dropped.

14a)CAUTION: If the TV is dropped and the cabinet or enclosure surface has been damaged or the TV does not operate normally, take the following precautions:

ALWAYS Ium off the TV and unplug the power cord to avoid possible electric shock or fire.

To prevent personal injury, never handle the damage television.

- television.

  ALWAYS contact a service technician to inspect the TV any time it has been damaged or dropped.

  15) The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

### Installation, Care, and Service

endations and precautions and heed all

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

DANGER RISK OF SERIOUS

DANGER RISK OF SERIOUS

PROSMAL INJURY, DEATH, OR
EQUIPMENT DAMAGE! Never pla
on an unstable cart stard
or table. The TV may fall, causing serious
personal injury, death, or serious damage to
the TV.

the TV.

18) Never place item on top of the TV.

19) Always place the TV on the floor or



attached band.

20) Never expose the apparatus to dripping or splashing liquid or place items such as vases, aquariums, any other item filled with liquid, or candles on top of the TV.

other item filled with liquid, or candles on top of the TV.

2) Never block or cover the slots or openings in the TV cabinet back, bottom, and sides.

Never place the TV:

on a bed, osh, rug, or imilar surface.

in a confined space such as a bookcase, bull-in cabinet, or any other place with poor ventilation.

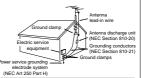
The slots and openings are provided to protect the TV from overheating and to help maintain reliable operation of the TV. Leave a space of at least a inches around the TV. 222 Always place the back of the television at least one (1) inch away from any vertical surface (such as a wall) to allow proper ventilation.

- 23) 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.

  24) Never overload wall outlets and extension cords.
- Always operate the TV with a 120V AC, 60Hz power source only.

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

26) 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.)



27)

DANGER: RISK OF SERIOUS
PERSONAL INJURY OR DEATH!

- Use extreme care to make sure you are neve
in a position where your body (or any item you are in
contact with, such as a ladder or screw-

contact with, such as a ladder or screw-driver) can accidentally touch overhead power lines. Never locate the antenna near 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, wives, or any home theater component connected to an antenna or phone system.

### Care

29)

**\$** 

Care

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

29 Always unplug the TV before
cleaning.
When the display panel surface
When the display panel surface
Wipe the display panel
Wipe the display
W

WARNING: RISK OF ELECTRIC SHOCK!

29) WARNING: RISK OF ELECTT Never spill liquids or push obj kind into the TV cabinet slots. 30) While it is thundering, do not touch the co cables or apparatus.

- cables or apparatus.

  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 oppoing 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.

Cette (cont. Irom previous column)

33 Possible Adverse Effects on TV display If a fixed (non-moving) pattern or image remains on the TV display for extended periods of time, the image can become permanently ingrained in the display of the TV and cause subtle but permanent ghost images.

This type of damage is NOT COVERED BY YOUR WARNARY.
Never leave the TV on for extended periods of time while it is displaying the following images or formats:

- Fixed (non-moving) 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 TORRUGA

black bars at the top and bottom in the screen) and 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.)

34) Keep your fingers well clear of the disc slot as it is closing. Failure to do so may cause serious personal

injury.

35) When you use headphones, keep the volume at a moderate level. Using headphones continuously at a high volume may cause hearing damage.

36) Do not look into the opening of the disc slot or ventilation opening of the product to see the source of the laser beam. Doing so may cause sight damage.

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

38) Do not press on or jot the LCD panel, Doing so may

injury and product malfunction.

30) Do not press on or jolt the LCD panel. Doing so may cause the LCD panel glass to break and injury may occur. Stoadd the LCD panel be broken and liquid leaks out, do not inhale of swallow it. Doing so may cause poisoning. If you have got it line your mouth, wash I out and consult your doctor. If you hank got it mad or occur and consult your doctor. If you hank got and the west worked it, weigh term with alcohol and a cleaning cloth and then wash them well.

### Service



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

40) 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 orution safety checks to determine that the TV is in safe operating condition.

- When the TV reaches the end of its useful life, ask a qualified service technician to properly dispose of the TV.

### Precautions

Important notes about your LCD TV

The following symptoms are technical limitations of LCD Display technology and are not an indication of malfunction. Therefore, Toshiba is not responsible for perceived defects resulting from these symptoms.

- An afterimage (ghost) may appear on the screen if a fixed, normoving image is displayed for a long period of time. The afterimage is not permanent and will disappear in a short period of time.

  2) The LCD panel contained in this TV is manufactured using an extremely high level of precision technology; however, there may be an occasional pixel (dot of light) that does not operate properly (does not light, remains constantly lit, etc.). This is a structural property of LCD technology, is not a sign of malfunction, and is not covered under your warranty. Euch pixels are not visible when the picture is Note: Interactive video games that involve shooting a "quu" hype of joystick at an on-screen target may not work on this TV.

- Work on this IV.

  Notes on handling

  To not subject the LCD panel to physical shock, such as dropping it. It may cause unit damage and malfunction. 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 insacticide, near the unit. Do the learn of the process of the contact with the process of the process of time. Doing so 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, always remove the disc and turn off the power.
- urn on 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 the unit

- Notes on locating 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.
  To avoid damage to this product, never place or store
  the TV/DVD in direct sunlight; hot, humid areas; or areas
  subject to excessive dust or vibration.

### 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 and drops of water form on the outside of the glass. In the same way, moisture may condense on this unit's internal optical pick-up lens, one of the most crucial internal parts of the unit.



- ensation may occur in the follo
- . When you move the unit from a cold area to a warm
- area.

   When you use the unit in a room in which the heat was
- just turned on.

  When you use the unit in an area where cold air from an air conditioner directly hits the unit.

  When you use the unit in a humid area.



### ■ Never use the unit when moisture condensation may occur.

Using the unit when moisture condensation exists 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.



Note on cleaning
Use a soft, dry cloth for cleaning.
• Do not use any type of solvent, such as thin

### Notes on discs

On handling discs

Do not touch the playback side of the disc.
For example, handle the disc so that it is shown in figure below.





### 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.

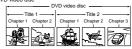
### On storing discs

- Do not store discs in a place subject to direct sunlight or
- Do not store discs in a place subject to unex suiling 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

### 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 called "title number", "chapter number" or "track numb respectively.
Some discs may not have these numbers.

Notes on copyright

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

This product incorporates copyright protection technology that is protected by method claims of certain U.S. patents and other intellectual property injust owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorised by this copyright protection technology must be authorised of which immediately only the protection technology must be authorised of what consists of the protection technology must be authorised of what acrovision Corporation. Reverse engineering or disassembly is prohibited.

7

### About this owner's manual

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

The following symbol may appear on the TV screen during operation

It means that the operation is not permitted by the TV/DVD or the disc. For example, sometimes it is unable to stop the playback of copyright message of the disc when the STOP (a) button is pressed. Attendively, this symbol may also indicate that the feature is not available for the disc.

### Notes on region numbers

The region number of this unit is 1. If region numbers, which stand for their playable area, are printed on your DVD video disc and you do not find go rg. disc playback will not be allowed by the player. (In this case, the unit will display a message on-screen.) Some DVDs that have no region code label may still be subject to area restrictions and therefore are not playable

### On Video CDs

The DVD player contained in this LCD TV 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 as this CVC.
- tersion 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)

Exploring your new TV/DVD

POWER MEMU

COAXIAL DIGITAL AUDIO OUT

LINE 2 IN LINE 1 IN ColorStream
HEADPHONE jack (Y, PB, PR) HD IN

10

VOLUME

(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
	DVD SO	Audio + Video	12 cm	Approx. 4 hours (single sided disc)
DVD video			12 (111	Approx. 8 hours (double sided disc)
discs	DVD	(moving pictures)	ictures) Approx. 80 (single side	
			8 cm	Approx. 160 minutes (double sided disc)
Video	100M94CT	Audio + Video	12 cm	Approx. 74 minutes (single sided disc)
CDs	DIGITAL VIDEO	(moving pictures)	8 cm	Approx. 20 minutes (single sided disc)
Audio	Audio CDs DICHAL AUDIO Audio	Audio	12 cm	Approx. 74 minutes (single sided disc)
CDs		Audio	8 cm	Approx. 20 minutes (single sided disc)
The fell	owing diece are	alaa ayai	labla	

- The following discs are also available.

   DVD-R/RW discs of DVD video format
   CD-R/CD-RW discs of CD-DA, Video CD, MP3,
  WMA, JPEG or DivX\* format
   Kodak Picture CD and FULICOLOR 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,

Because of problems and errors that can occur during the creation of DVD and CD Software and/or the manufacture of DVD creation of DVD and CD Software and/or the manufacture of DVD and CD software and/or the manufacture of DVD and CD software and CD logos. If you happen to experience any difficulty playing a DVD and/or CD disc on the DVD player contained in that TV, please contact Toshiba Customer Service.

22° is a tandemank of DVD Format Logo Licensing corporation.

The STARTING SETUP feature appears the first time you turn on the TV/DVD. See

can be used as **△**/▼ and **﴿**/► buttons while the TV menu is displayed on screen. Approx 10°

> @ 0° 0° 0 123 456 789

723 ( ENTED ) 744 ( ENTED ) 74

uttons on the top panel or the remote control. The side and back panels nent to your TV/DVD.

page 23 for details.

forward or 10° backward from vertical. Hold the base of the TV/ DVD while

8

PLE TOP SHIP

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Limited United States Warranty	

- Selecting a location for the TV/DVD
- Place the TV/DVD on the floor or on a sturdy platform in a location where light does not directly hit the screen Place the TV/DVD far enough from the walls to allow proper ventilation. Insadequate ventilation may cause overheating, which may damage the TV/DVD.

### Connecting your TV/DVD

- Connecting your TV/DVD

  A coaxial cable is the standard cable that comes in from your antenna or cable converter box. Coaxial cables use "F" connectors.

  Standard AV (audiovideo) cables are usually color coded according to use; yellow for video and red and white for audio. The red audio cable is for the stereo right channel, and the white audio cable is for the stereo left (mono) channel. If you look at the rear panel of the TV/DVD, you will see that the terminals are color codel in the same manner as the cables.

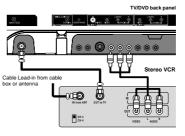
  S-video cables provide better picture performance than standard video cables. S-video cables can only be used with S-video compatible components.

  Component video cables provide better picture performance than S-video cables. Component video cables can only be used with component video cables can only be used with component video cables can only be used with video cables. Component video cables can only be used with video cables. Component video cables can only be used with video cables. To the video cables can only be used with video cables. Component video cables can only be used with video cables. See that the video cables can only be used with video cables. See that the video cables can only be used with video cables. See that the video cables can only be used with video cables. See that the video cables can only be used with video cables. See that video cables can only be used with video cables. See that video cables can only be used with video cables. See that video video



### Connecting a VCR

This connection allows you to watch local channels and video programs play or record on the VCR while watching TV, and record from one channel while watching another channel.





You will need:

two coaxial cables

one set of standard A/V cables

Note:
If using a mono VCR, connect L/Mono to VCR Audio OUT using only one audio cable. For better picture quality, if your VCR has S-video, you can use an S-video cable instead of the standard video cable. Do not connect a standard video cable and an S-video cable to VIDEO-1 simultaneously.

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 criminal liability.



### Connecting a cable converter box or Antenna

This television has an extended tuning range and can tune most cable channels without using a cable company supplied 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.

Option 1: For Subscribers to Basic Cable TV Service For basic cable service not requiring a Converter/Descrambler box connect the incoming 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the television.

Option 2: For Subscribers to Scrambled Cable TV Service If you subscribe to a cable service that requires the use of a Converter/ Descrambler box, connect the incoming cable to the Converter/ Descrambler box and connect the output of the box to the Antenna Jack on the back of the television. Follow the connections shown below. Set the television to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.

Option 3: For Subscribers to Unscrambled Basic Cable with Scrambled Premium Channels
If you subscribe to a cable service in which basic cable channels are unscrambled and premium channels require the use of a Converter/
Descrambler box, you may wish to use a two-set signal splitter (sometimes called a "two-set couplery") and an AIS Switch box from the cable installer or an electronics supply store. Follow the connections shown below. With the switch in the "Ps' 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 box to tune scrambled channels.

Connecting a DVD player with ColorStream®

This connection allows you to watch DVD, VCR, or TV programs and record TV programs. You can record from one source while watching program from another source. Your TVDVD is capable of using ColorStream (component video). Connecting your TVDVD to a component video compatible DVD player, such as a Toshiba DVD player with ColorStream\*, can greatly enhance picture quality and performance.

**#**900

eo VCR

- B

(component video) and a VCR

Note: When you use a converter box with your TV. DVD, there may be features that you cannot program using the remote control, such as labeling channels, blocking channels, and programming your favorite channels.

You will need:

• two coaxial cables

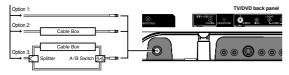
• one set of standard A/V cables

• one set of component video cables

• one pair of standard audio cables

Note: The ColorStream HD jacks can be used with Progressive (480p, 720p) and Interlaced (480i, 1080i) scan systems. A 1080i signal will provide the best picture performance.

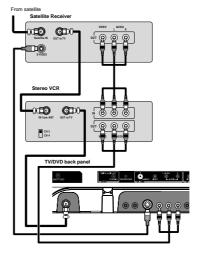
The unauthorized recording, use, distribu tion or revision of television programs videotapes, DVDs, and other materials i prolibited under the Copyright Laws of th United States and other countries, and ma subject you to civil and criminal liability.



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### Connecting a satellite receiver and a VCR

This connection allows you to watch satellite, VCR, or TV programs. You can record from the satellite receiver and TV, as well as record one TV channel while watching another channel.



- You will need:

  three coaxial cables

  two sets of standard A/V cables

  one S-video cable

You can use a standard video cable instead of the S-video cable, but the picture quality will decrease. If you use an S-video cable between the TV/DVD and DVD player/satell. receiver, make the audio connections but remove the standard video cable. Do not connect both an S-video and a standard video cable to VIDEO1 at the same time or the picture performance will be unacceptable.

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 United States and other countries, and n subject you to civil and criminal liability.

### Connecting a DTV receiver/set-top box with ColorStream® (component video) and a VCR

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This connection allows you to watch DTV (digital TV), VCR, and TV programs, and record DTV and TV programs.

Your TV/DVD has ColorStream® (component video) inputs. Connecti your TV/DVD to a DTV receiver with component video can greatly enhance picture quality and realism.

# Stereo VCR -დი 8 D13 From DTV -0.020 0

You will need:

three coaxial cables

- two sets of standard A/V cables
   one set of standard audio cable
   one set of component video cab

Note:
The ColorStream HD jacks and HDMI jacks can be used with Progressive (480p, 720p) and Interlaced (480n, 1080i) scan systems. If your DV receiver does not have component video, use the S-video and standard audio connections instead. Do not connect both an S-video and a standard video cable with the same time or the picture or VIIPFO1 at the same time or the picture. to VIDEO1 at the same time or the picture performance will be unacceptable. For an HDMI connection, see page 17.

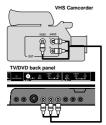
The unauthorized recording, use, distribution, or revision of television programs, videotapes, DVDs, and other materials is prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

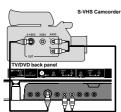


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### Connecting a camcorder

This connection allows you to watch videos recorded on a camcorder





one set of standard AV cables

one S-video cable
 one pair of standard audio cables

Note:
For better picture quality, if your camcorder has S-video, you can use an S-video cable (plus the standard audio cables) instead of a standard video cable.
Do not connect both a standard video cable and an S-video cable at the same time, or the picture performance will be unacceptable.

### Connecting an HDMI™ or a DVI device

The HDMI input on your TV receive digital audio and uncompressed digital video from an HDMI source device, uncompressed digital video from a DVI (Digital Video Inter

This input is designed to accept HDCP (High-Bandwidth Digita Content Protection) program material in digital form from EIA/ CEA-861/861-Bcomplian<sup>11</sup> consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output).

The HDMI input is designed for best performance with high definition video signals. They will accept and display 480i, 480p. 720p and 1080i signals

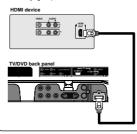
# NOTE: DO NOT CONNECT A PC USING THE HDMI INPUT. ALWAYS use the VGA port provided to connect a PC.

To connect an HDMI device, you will need:
• one HDMI cable (type A connector)

For proper operation, it is recommended that you use as short an HDMI cable as possible. You should not encounter difficulty if you use an HDMI cable that is shorter than 16.4 ft (5m).

You must set the HDMI audio input setting to "HDMI" in the AUDIO menu (see page 42).

Some CDVs (Video CDs) may not output digital audio signals. In that case, you may hear sound by connecting analog audio cables. If you do use analog audio cables for this reason, you will need to set the HDMI audio input setting to 'DVI' to hear the analog audio (see page 42). Note: If you connect an HDMI device and nanlog audio cables and play media with digital audio output, to hear digital audio you must set the HDMI audio input setting to "HDMI" (page 42).



EIA/CEA-861/861B compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video

als. ause this is an evolving technology, it is possible some devices may not operate properly with the

To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

When turning on your electronic components, turn on the TV/DVD first, and then the HDMI or DVI device.

When turning of your electronic components, turn off the HDMI or DVI device first, and then the TV/DVD.

To connect a DVI device, you will need:
• one HDMI-to-DVI adapter cable
(HDMI type A connector)

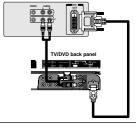
For proper operation, the length of an HDMI-to-DVI adapter cable should not exceed 9.8 ft (3m). The recommended length is 6.6 ft (2m).

one pair of standard analog audio cables

An HDMI-to-DVI adapter cable transfers only video. Separate analog audio cables are required (see illustration below).

You must set the HDMI audio input setting to "DVI in the AUDIO menu (see page 42).

### DVI device

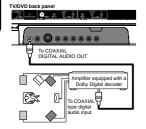


HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

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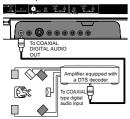
### Connecting an amplifier equipped with a Dolby® Digital decoder

DOIDy® 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 ampliffer equipped with a Dolby Digital recorder 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 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. available for home use, on DVD video discs or audio CDs.
If you have a DTS decoder or processor, you can obtain the full benefit of 5.1 channel DTS encoded sound tracks on DVD video discs or audio CDs.



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# Notes: • 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 AV Receiver is reserved for Laserdisc use only and is incompatible with the COAXIAL DIGITAL AUDIO OUT jack of

- the COAXIAL DIGITAL AUDIO OUT jack of the TVIDVD.
  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.
  The output sound of the TV/DVD has a wide theoretic receive. Describe to desire the

- 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 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.

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

### Notes:

- Notes:

  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.

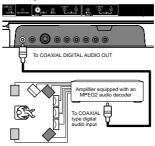
  The output sound of the TV/DVD has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.

  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.

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

### Connecting an amplifier equipped with an MPEG audio decoder

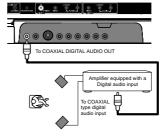
MPEG2 sound
You can enjoy motion picture and live concert DVD video discs
encoded via the MPEG2 recording system with dynamic realistic sound
by connecting an amplifier equipped with an MPEG2 audio decoder or
MPEG2 audio processor.



### Connecting 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).

TV/DVD back panel



You will need:
• one coaxial cable

- NOTES:

  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.

  The output sound of the TV/DVD has a wide
- In eutput sound of the IV/DVD has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening level. Otherwise, the speakers may be damaged by a sudden high volume sound.
   Turn off the amplifier before you connect or disconnect the TV/DVD's power cord. If you leave the amplifier power on, the speakers may be damaged.

You will need:
• one coaxial cable

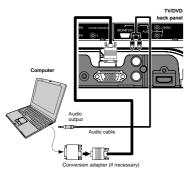
- PCM audio is limited to DVD or CD
   playback
- nect the COAXIAI DIGITAL AUDIO
- Connect the COAXIAL DIGITAL AUDIO OUT jack of the TV/DVD to the TV/DVD to the TV/DVD to the TV/DAVIAL" input of a Receiver or Processor.
  Refer to the owner's manual of the connected equipment as well.
  The output sound of the TV/DVD has a wide dynamic range. Be sure to adjust the receiver's volume to a moderate listening leavel. Otheroise. The sneaker may be.
- level. Otherwise, the speakers may be damaged by a sudden high volume sound. Turn off the amplifier's before you connect or disconnect the TV/DVD's power cord. If you leave the amplifier power on, the u leave trie arripililer powe eakers may be damaged.

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### Connecting a PC (personal computer) Before you connect this TV/DVD to your PC, change the au

Before you connect this TV/DVD to your PC, change the adjustmer your PC's Resolution and Refresh rate. See "Monitor display mode:

your PC'S Resolution and Retrestrates. Dee more inspensy interests on right. Connect one end of a (male to male) VGA cable to the video card of the computer and the other end to the VGA connector PC at the side of the TV/DVD. Fix the connectors firmly with the screws on the plug. In case of a Multimedia computer, connect the audio cables to the audio outputs of your Multimedia computer and to the AUDIO L and R connectors of the PC III placks of the TV/DVD. Set the video input source to PC mode (see "Selecting the video input source" on page 31 and "Picture/Audio adjustments in the PC mode" on page 43). The TV/DVD can be used as a computer monitor.



one VGA (15-pin) computer cable one PC audio cable

	Monitor display	/ modes
Mode	Resolution	Refresh rate
VGA	640x480	60Hz
VGA	720x400	70Hz
WVGA	848x480	60Hz
SVGA	800x600	60Hz
XGA	1024x768	60Hz
WXGA	1280x720	60Hz
WXGA	1280x768	60Hz
WXGA	1360x768	60Hz

- Some this TV. An ac' DC
- \*Some PC models carrind use communication to this TV. In adaption of needed for computers with a PDCSV compatible mint D-sub 15-pin terminal. DCSV compatible mint D-sub 15-pin terminal appearance in PC mode than in TV mode. If your PC display output corresponds to a WWGA or a WXGA resolution as indicated in the chart above (example: WXGA 1360 X 7681), you must set the WWGA INPUT or WXGA INPUT to the ON position in the PC Picture menu in the TV (see page 43).



### Setting up your TV/DVD Using the remote control

### Installing the remote control batteries

To install the batteries:

1. Open the battery cover on the back of the remote control.



atch the + and - signs on the



Note:

The TV/DVD remote control may not operate your VCR, DVD player, or cable TV converter. Refer to the owner's manual supplied with your other devices to see which features may be available. Additionally, the remote control for this TV/DVD may not support certain features available on the original remote controls for your other devices, in which case it is suggested that you use the original remote control for the applicable device.

### Caution:

Never throw batteries into a fire.

### Notes:

- Notes:

  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.
- combination.

  Always remove the batteries from the remote control if they are dead or if the remote control is not to be used for an extended period of time. This will prever battery acid from leaking into the battery compartment.

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### Learning about the remote contro

POWER turns the TV/DVD on and off EJECT eject a disc (page 45)

TV/DVD switches between TV/Video input/PC and DVD

CHANNEL NUMBERS allow direct access to channel

CH ∧ / ∨ cycles through programmed channels (page 24) VOL + / - adjusts the volume level

ENTER sets programmed menu information (page 23)

EXIT/CANCEL exits programming menus or resets information in the menu (pages 23, 47)

INPUT selects the video input source (page 31)

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PIC SIZE cycles through the five picture sizes: Natural, TheaterWide 1, TheaterWide 2, TheaterWide 3 and full (page 33)

GAME game mode (page 24)
MENU/SETUP allows access to programming menus (page 23)

DISPLAY displays status information on-screen (page 42) SLEEP programs the TV/DVD to turn off at a set time (page 37)

MUTE turns off the sound (page 40)

CLOSED CAPTION switch between TV/Caption/Text in Closed Caption mode (page 37)

SUBTITLE sets subtitle (page 52)

AUDIO SELECT switches the sound of TV/DVD and changes sound track languages (page 52)
DVD MENU allows access to DVD menu or display a thumbnail list for JPEG (pages 51,56)

TOP MENU allows access to DVD Top menu or display a file browser screen for JPEG (pags 51,56)

PLAY MODE sets repeat playback (page 49)

RETURN clears DVD setup menu (page 59)

MARKER index of DVD/VCD (page 48)
REPEAT A-B repeats playback between A and B (page 49)

ANGLE changes playback angle (page 51)

JUMP locates the desired point to play back (page 47) CH RTN returns to the last viewed channel (page 25),

ZOOM allows you to zoom in on the frame image (page 47)

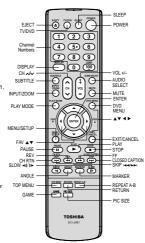
SKIP ⊷ skips chapter/track (page 46)

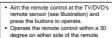
FF fast forwards a DVD, VCD, CD Audio, forwards playback

PLAY plays a DVD, VCD, CD Audio REV rewinds a DVD, VCD, CD Audio, revi

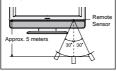
STOP stops a DVD, VCD, CD Audio PAUSE pauses a DVD, VCD, CD Audio

SLOW ◀I/I► plays forward/reverse slowmotion





degree on either side of the remote sensor, up to a distance of approx. 16 ft



## Starting setup

The STARTING SETUP feature appears the first time you turn on the TV/DVD, and helps you select the menu language, specify the TV/ CABLE setting, and program channels automatically.

IMPORTANT: Make sure that the antenna or cable TV system is connected.

Press POWER to turn on the TV/DVD. The starting setup function begins and the language setup menu appears on the screen.

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

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

3. Press ▲ or ▼ to select "TSTART", then press ENTER. If you select "CANCEL" and press ENTER, the STARTING SETUP stops and changes to the TV screen.

4. Now the "CH PROGRAM" starts. After the starting setup is completed, the TV channel appears on the screen.

If you press the EXIT button in the process of "CH PROGRAM" the STARTING SETUP stops and changes to the TV screen.

After you have installed the batteries and programmed the remote control, you need to set some preferences on the TV/DVD using the menu system. You can access the menu system with the buttons on the remote control.

- When you make a menu selection, your changes are immediate.
  You do not have to press MENU or EXIT to see your changes.
  After one minute, the menu screen will automatically close if you do not make a selection. Your changes will still be saved.
  When you have finished programming the menus, press EXIT.

### Changing the on-screen display language

You can choose from three different languages (English, French and Spanish) for the on screen displays. Adjustment menus and messages will appear in the language of your choice.

To select a language:

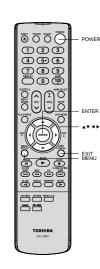
1. Press MENU, then press ◀ or ▶ until the SETUP menu appears.



2. Press ▲ or ▼ to highlight LANGUAGE.



3. Press ◀ or ▶ to highlight your desired language



The position and size of the on-screen menus nay change for some program formats (such s 1080i or 720p).

### Adding channels to the TV/DVD's memory

When you press CH  $\land / \lor$ , your TV/DVD will stop only on the channels you have stored in the TV/DVD's channel memory. Follow the steps below to program channels into the channel memory.

### Programming channels automatically

Your TV/DVD can automatically detect all active channels and store them in its memory. After the TV/DVD has stored the channels in its memory automatically, you can add or erase channels manually.

- 1. Press MENU, then press ◀ or ▶ to display the SETUP me
  2. Press ▲ or ▼ until the TV/CABLE
- selection is highlighted.

  3. Press ◀ or ▶ to highlight either
  TV or CABLE, depending on

- IV or CABLE, depending on which you use.

  If you use an antenna, choose TV. If you use cable, choose CABLE.

  Press Y until the CH PROGRAM selection is highlighted.

  Press \ or \text{bress} \ v in the start channel programming. The TV/DVD will automatically cycle through all the TV or Cable channels (depending on which you selected), and store all active channels in the channel memory.

  While the TV/DVD is cycling through the channels, the message "PROGRAMMING NOW-PLEASE WAIT" appears.

  When channel programming is complete, the message "COMPLETED" appears.

- Press CH ∧ / ∨ to view the programmed channels

### Adding and erasing channels manually

After you have programmed the channels automatically, you can add or erase specific channels manually.

- To add or erase channels manually:

  1. Select the channel you want to add or erase. If adding channels, you must select the channel to add using the Channel Number buttons.

  2. Press MENU, then press ≼ or ▶ to display the SETUP menu.

  3. Press & Q \* to Inhighlight Autor.
- ERASE

- ENASE. 4 or ▶ to select ADD or ERASE, whichever function you want to perform.
  5. Repeat steps 1-4 for other channels you want to add or erase.



CLOCK SET 12/SOAM
TY/CABLE TY/CABLE
CH/PROGRAM
ADD/EKASE ADD

### Changing channels

To change to the next programmed channel:

Press Channel ▲ / ▼ on the TV/DVD or CH ▲ / ▼ on the remote control.

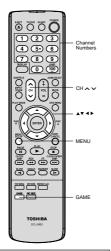
To change to a specific channel (programmed or unprogrammed):
Press the Channel Number buttons (0-9 and 100) on the remote contro
For example, to select channel 125, press 100, 2, 5.

### 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.

  If GAME is pressed during standby mode, the unit turns on automatically and the Game mode screen appears on the sc



In addition to cycling through you programmed channels, the CH < buttons will also cycle through the video input sources (page 31) in the order illustrated below.

→ HDMI ← → ColorStream HD ←

### 24

### Using the TV/DVD's features

### Adjusting the channel settings

Switching between two channels

You can switch between two channels without entering an actual channel number each time.

- cnanien lumber each time.

  1. Select the first channel you want to view.

  2. Select a second channel using the Channel Number buttons (0-9, 100).

  3. Press CH RTN. The previous channel will be displayed.
  Each time you press CH RTN, the TV/DVD will switch back and forth between the two channels.

### Programming your favorite channels

Flogramming your lavorite channels using the Favorite Channels using the Favorite Channel Programming feature. Because this feature scans through only your favorite channels, it allows you to skip other channels you do not normally watch.

You can still use CH ▲/ ∨ to scan through all the channels you programmed in the TV's memory.

- To program your favorite channels:

  1. Select a channel you want to program.
  2. Press MeDU, then press ◀ or ▶ to display the OPTION menu.
  3. Press ▲ or ▼ to highlight FAVORITE CH.
- OFFICE CH OFF

4. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.



- Press ◀ or ▶ to highlight SET and pres
  Press EXIT to return to normal viewing.
  Repeat steps 1-6 for up to 12 channel. and press ENTER

### To select your favorite channels: Press the FAV ▲ / ▼ buttons on the remote control to select your

favorite channels. The FAV ▲ / ▼ buttons will not work until you have programmed your tavorite channels.

1. Select a channel you want to clear.

2. Press MENU, then press ◀ or ▶ to display the OPTION menu.

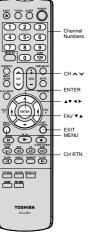
3. Press ▲ or ▼ to highlight FAVORITE CH.

4. Press ◀ or ▶ to display the FAVORITE CH menu. SET/CLEAR will be highlighted.

5. Press ◀ or ▶ to highlight CLEAR.

- Press ENTER until "0" replaces the channel number you want to erase
   Press EXIT to return to normal viewing.
   Repeat steps 1-7 for the other channels.

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# TOP HENE PETURS PEPEATAGE

### Using the LOCKS menu

Note: The V-Chip feature is available for the U.S. V-Chip system only. The Canadian V-Chip Feature system is not supported. You can prevent others from viewing certain programs or channels by blocking them using the V-Chip feature.

### Selecting a password

Before you can use the V-Chip Feature to block programs and chanles, you must select a password. The password you select preve others from changing the rating limits you set.

- To select your password and access the LOCKS menu:

  1. Press MENU, then press ◀ or ▶ to highlight the LOCKS menu.

  2. Press ▲ or ▼ to display the password entering mode.



Use the Channel Number buttons (0-9) to enter your password. If you are accessing the LOCKS menu for the first time, select a four-digit number to be your password. Press ENTER.



Enter the password again to confirm it, and then press ENTER. The LOCKS menu appears.

If the wrong password is entered, "ERROR" blinks about 4



5. You may now set up the LOCKS menu. See "Using the V-Chip (parental control) feature" (page 27), "Locking channels" (page 28), "Cucking the Video inputs" (page 28), "Setting the GameTimer™ (page 29) or "Using the panel lock feature" (page 29).

- To change your password:

  1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.

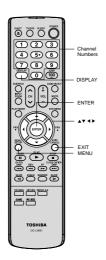
  2. Press ▲ or ▼ to display the password entering mode.

  3. Use the Channel Number buttons (0-9) to enter your password.

  Press ENTER. The LOCKS menu appears.

  4. Press ▲ or ▼ to highlight NEW PASSWORD and press ◀ or ▶ to display the NEW PASSWORD menu.
- Use the Channel Number buttons (0-9) to enter a new code. Press ENTER.
- Enter the password again to confirm it, and then press ENTER
   Press EXIT to return to normal viewing.

The password you programmed is also used in the LOCKS menu; see pages 27-29.



If you forget your password, press DISPLAY four times within five seconds while the TV/ DVD is in password entering mode. This allows you to reset your password.

### Using the V-Chip (parental control) feature

Using the Victing Upartinal country leading The Motion Picture Association of America (MPA) uses a rating system to qualify motion picture content. Television broadcasters employ a rating system to qualify the content of television programs, as well. The TV and MOVIE traitings work with the V-Chip feature and allow you to block programs according to the rating limits you set.

V-CHIP SET

V-CHIP BET
V-CHIP ON
TV RATING
TV-PG/TV-TF/TV-MA
TV-PG/TV-TF/TV-MA

# To use the V-Chip to block programs by rating: 1. Press MENU, then press ◀ or ▶ to display the LOCKS menu. 2. Press ▲ or ▼ to display the

- password entering mode.

  3. Use the Channel Number buttons (0-9) to enter your password. Press ENTER. The LOCKS menu appears.
- appears.

  Press ▲ or ▼ to highlight V-CHIP.

  Press ◀ or ▶ to highlight ON to enable V-Chip program blocking
- by rating.

   Press ◀ or ▶ to highlight OFF to disable V-Chip program blocking by
- rating.

  5. Press ▲ or ▼ to highlight TV RATING. Then, press ◀ or ▶ to display the desired rating.
  - OFF TV-Y : TV RATING is not set : 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
- IV-14 : 14 years old and above

  \*When you select TV-Y7, TV-PG, TV-14 or TV-MA, press DISPLAY to explain the rating. Press & or ▼ to select the desired rating you want. Press ◀ or ▼ to highlight MoVIE RATING. Then, press ◀ or ▼ to highlight MoVIE RATING. Then, press ◀ or ▼ to display the desired rating.

  OFF : MOVIE RATING is not set (no movies will be blocked)

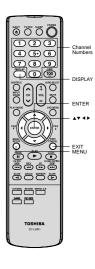
  G : All ages

  PG : Parental guidance less than 13 years old

  R : Under 17 years old Parental guidance suggested NC17 : 17 years old and above X : Adult only

  7. When you are done selecting the ratings, press EXIT to return to normal viewing.

When you try to view a program with a ratings block, a message will appear listing the program's ratings. The program can still be viewed if you press MUTE and then enter your password to temporarily bypass the block



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### Locking channels

With the CH LOCK feature, you can lock specific channels. You will not be able to tune locked channels unless you clear the setting. You can be able to tune locked channels unless you clear the setting. You car choose to lock up to nine TV channels and nine cable channels.

### To lock channels:

- 1. Use the Channel Number buttons (0-9 and 100) to display the

- 1. Use the Channel Number buttons (0-9 and 100) to display the television channel you wish to lock.

  2. Press MENU, then press ◀ or ▶ to display the LOCKS menu.

  3. Press ▲ or ▼ to display the password entering mode.

  4. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.

  5. Press ▲ or ▼ to highlight CH LOCK and press ∢ or ▶ to display the CH LOCK menu.

  6. Press ◀ or ▶ to select the following:

- ing:

   SET- to set the channel as one to be locked. Then press ENTER.
- ENTER.

  CLEAR- to clear all channels from the list of locked channels. Then press ENTER.

  7. Repeat steps 1 through 6 to lock other channels. When you have finished locking channels, press EXIT to return to normal viewing.

  If you try to turn a locked channel, the TI/DVD will not display it, but will display the nearest unlocked channel.

- To unlock channels:

  1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.

  2. Press & or ▼ to display the password entering mode.

  3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.

  4. Press & or ▼ to highlight CH LOCK and press ◀ or ▶ to display the CH LOCK menu.

  5. Press ◀ or ▶ to highlight CLEAR and clear all channels from the list of locked channels. Press ENTER.

  6. Press EXIT to return to normal viewing.

### Locking the video inputs

With the VIDEO LOCK feature, you can lock out the input sources (VIDEO-1, VIDEO-2, COLORSTREAM HD, HDMI, PC, GAME) an channels 3 and 4. You will not be able to select the input sources we the INPUT button or Channel buttons unless you clear the setting.

- the INVUI button or Channel buttons unless you clear the setting.

  To set up the video lock:

  1. Press MeNU, then press ◀ or ▶ to display the LOCKS menu.

  2. Press ♣ or ▼ to display the password entering mode.

  3. Use the Channel Number buttons (0-9) to enter your password, then press ♣ or ▼ to highlight VIDEO LOCK.

  4. Press ♣ or ▼ to highlight VIDEO LOCK.

  5. Press ♣ or ▶ to select:

   OFF: Unlocks all video input

- 2. COLORSTREAM HD, HDMI, PC, GAME.

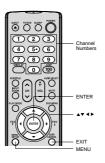
  VIDEO \*: Locks VIDEO-1, VIDEO-2, COLORSTREAM HD, HDMI, PC, GAME, channel 3 and channel 4. This option should be used if you use the antenna terminal to play a video tape. Press EXIT to return to normal viewing.

CAME TIMER COST OFF

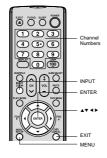
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C & D & A

err Q



After programming CH LOCK, change channels before turning off the televisi



After programming VIDEO LOCK, change channels or press the INPUT key before turning off the TV/DVD.

- To unlock the video inputs:

  1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.

  2. Press ≜ or ▼ to display the password entering mode.

  3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.

  4. Press ≜ or ▼ to highlight VIDEO LOCK and press ◀ or ▶ to highlight OFF.

  5. Press EXIT to return to normal viewing.

### Setting the GameTimer™

With the GameTimer™ feature, you can automatically activate the VIDEO LOCK feature (VIDEO setting) to set a time limit for playing a video game (30, 60, 90 or 120 minutes).

- - channels automatica VIDEO LOCK mode



### Using the panel lock feature

You can lock the top panel controls to prevent your settings from being changed accidentally (by children, for example). When the panel lock is in ON, all control buttons on the TV/DVD top panel (except POWER)

### To lock the panel controls:

- To lock the panel controls:

  1. Press MENU, then press ◀ or ▶ to display the LOCKS menu.

  2. Press ▲ or ▼ to display the password entering mode.

  3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.

  4. Press ▲ or ▼ to highlight PANEL LOCK and press ◀ or ▶ to highlight ON.

ON.
If a button on the top panel is pressed, the message "NOT AVAILABLE" appears.

# PANEL LOCK ON /5

- You also can unlock the panel controls using the menus:

  1. Press MENU, then press ✓ or ▶ to display the LOCKS menu.

  2. Press ▲ or ▼ to display the password entering mode.

  3. Use the Channel Number buttons (0-9) to enter your password, then press ENTER. The LOCKS menu appears.

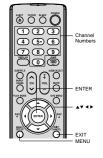
  4. Press ▲ or Y to inghlight PANEL LOCK, and then press ⋖ or ▶ to highlight OFF.

To unlock the panel controls using the TV/DVD controls:
Press and hold the VOLUME – button on the TV/DVD top panel for about 10 seconds until the message "PANEL LOCK:OFF" appears

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### Note:

You can enjoy playing video games on this TV/DVD; however, certain video games that IV/DVD; nowever, certain video games and utilize so-called "light gun" joysticks for shooting at on-screen targets may not work with this TV/DVD.



TV/DVD top panel





### Labeling channels

Channel labels appear above the channel number display each time you turn on the TV/DVD, select a channel, or press the DISPLAY button. You can choose any four characters to identify a channel.

### To create channel labels

- To create channel labels:

  1. Select a channel you want to label.

  2. Press MENU, then press ◀ or ▶ until the OPTION menu appears.

  3. Press ♣ or ▼ to highlight CH LABEL.

  4. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be highlighted.

  5. Press ◀ or ▶ to highlight SET. Press ◀ or ▶ to highlight SET.
- ress ¶ or p or nignight SET.
   Press ¶ or p to enter a character in the first space. Press the button repeatedly until the character you want appears on the screen. Press FNTFR.
- ENTER ENTER.
  Repeat step 7 to enter the rest of the characters.
  If you would like a blank space in
  the label name, you must choose
  an empty space from the list of
  characters; otherwise, a dash will
- appear in that space.

  9. Repeat steps 1-8 for other channels. You can assign a label to each
- channel.

  10. Press EXIT to return to normal viewing

### The character will change as below



### To erase channel labels:

- orase channel with a label.

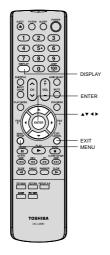
  1. Select a channel with a label.

  2. Press MENU, then press ◀ or ▶ until the OPTION menu appears.

  3. Press ▲ or ▼ to highlight CH LABEL.

  4. Press ◀ or ▶ to display the CH LABEL menu. SET/CLEAR will be

- Press ENTER.
   Repeat steps 1-6 to erase other channel labels.



### Selecting the video input source

Press INPUT to view a signal from Press INPUT to view a signal from another device connected to your TV/ DVD, such as a VCR or DVD player. You can select ANT, VIDEO-1, VIDEO-2, ColorStream HD, HDMI or PC, depending on which input jacks you used to connect your devices (see "Connecting your TV/DVD" on page 11).



Press INPUT on the remote

You also can use the CH  $_{\wedge}$  /  $_{\vee}$  buttons to select the video input source. In addition to cycling through your programmed channels (page 24), the CH  $_{\wedge}$  /  $_{\vee}$  buttons will also cycle through the video input sources, in the order illustrated below.

ANT (programmed channel) ←→ VIDEO1 ←→ VIDEO2

### Labeling the video input sources

The video label feature allows you to label each input source for your TV/DVD from the following preset list of labels:

- : Uses the default label name

VCR : Video cassette recorder

- Video cassette record DVD video Digital TV set-top box Satellite box Cable box HDMI equipment

### Setting the clock

You must set the clock before you can program the ON timer

- To set the clock: (Example: 8:30 AM)

  1. Press MENU, then press ◀ or ▶ to display the SETUP menu.

  2. Press ▲ or ▼ to highlight CLOCK SET.
- SET.

  3. Press ◆ or ▶ to highlight the hour position.

  4. Press ▲ or ▼ to set the hour, then press ▶ to highlight the minute position.

  5. Press ▲ or ▼ to set the minutes, then press EXIT to return to normal viewing.

\$ 1 F G CLOCK SET TV / CABLE CH PROGRAM ADD / ERASE CLOCK SET TV / CABLE CH PROGRAM ADD / ERASE EARLE

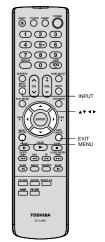
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1.VIDEO1 D/VCK/DVD/DT/ J.VIDEO3 BAT/CBL

Please note the following regarding the HDMI source selection:



See "Connecting an HDMI™ or DVI device" on page 17 and "Connecting a PC (personal computer)" on page 20 for



the power source for the TV/DVD is prrupted (for example, the power cord is plugged or a power failure occurs), you will ad to reset the clock.

### Setting the ON timer

This feature allows you to program the TV/DVD to turn on automatically at a set time. If you program the ON TIMER to "DAILY," the TV/DVD will turn on every day at the same time to the same channel until you clear the ON TIMER.

### To set the on timer: (Example: Turning on the TV/DVD to channel 012 at 6:30 AM, DAILY)

- ur. at 6:30 AM, DALLY)

  1. Set the clock, if you have not already done so (see page 31).

  2. Press MENU, then press ◀ or ► to display the OPTION menu.

  3. Press ▲ or ▼ to highlight SET, then press ENTER. The ON TIMER.

  4. Press ◀ or ► to be thighlight SET, then press ENTER. The ON TIMER menu appears. Press ◀ or ► to set the time.

  5. Press ▲ or ▼ to set the desired hour, then press ►.

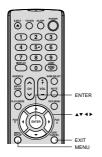


Set the desired minutes and channel, as in step 5.



- Press ◀ or ▶ to select ONCE or
- DAILY.
  8. Press EXIT to return to normal viewing.

To cancel the on timer: Select CLEAR in step 7 above. Press EXIT to return to normal viewing



After a power failure or disconnection of the power, the timer settings will be lost.

### Viewing the wide-screen picture formats (480i and 480p signals only)

You can view 480 in and 480p format programs in a variety of picture sizes—Natural, TheaterWide1, TheaterWide2, TheaterWide3 and Full. The way the image displays in any of the picture sizes will vary depending on the format of the program you are viewing. Select the picture size that displays the current program the way that tooks best

- Selecting the picture size

  1. Press PIC SIZE on the remote control.

  2. Press the corresponding number button (0-4) to select the desired picture size, as described below and on page 34.

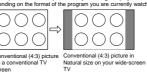


Natural picture size

The image is displayed close to its originally formatted proportion.

Some program formats will display with side bars and/or bars at the top and bottom.

Natural picture size example: The way the image displays will vary depending on the format of the program you are currently watching



### TheaterWide 1 picture size (for 4:3 format programs)

- The center of the picture size (in the picture size)

  The center of the picture remains close to its original proportion, but the left and right edges are stretched wider to fill the screen.

  The top and bottom edges of the picture may be hidden; however, this mode cannot be scrolled.





You also can change the picture size by selecting PICTURE SIZE in the SETUP



Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries, and may subject you to civil and criminal liability.

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### TheaterWide 2 picture size (for letter box programs)

- TheaterWide 2 picture Size (it
  The picture is stretched the same
  amount both wider and taller
  (retains its original proportion.)
  The top and bottom edges of the
  picture may be hidden. To view hidden areas, see "Scrolling the
  TheaterWide picture" on page 35.



### TheaterWide 2 picture size example

### TheaterWide 3 picture size (for letter box programs with subtitles)

with subtitles)

The picture is stretched wider to fill the width of the screen, but only slightly stretched taller.

The top and bottom edges of the picture may be hidden. To rive with thidden areas (such as subtitles or captions), see "Scrolling the TheaterWide picture" on page 35.



### Full picture size (for 16:9

- proportion.

  If receiving a 4:3 format program, the picture is stretched wider to fill the width of the screen, but not stretched taller.
- None of the picture is hidden.



Using these functions to change the picture size (i.e., changing the height/ width ratio) for any purpose other than your private viewing may be prohibited under the Copyright Laws of the United States and other countries and may

Note: If you select TheaterWide 2 or 3, the top and bottom edges of the picture may be hidden. To see the hidden edges, either scroll the picture (see page 35) or try viewing the program in Full picture size.

### Scrolling the TheaterWide® picture

### (TheaterWide 2 and 3 only)

- Press PIC SIZE to select the TheaterWide 2 or 3 mode.
  2. Press MENU, and then press ◀ or ▶ until the SETUP menu appears.
  3. Press ▲ or ▼ to highlight PICTURE SCROLL.





5. Press ▲ or ▼ to adjust the vertical position of the picture.

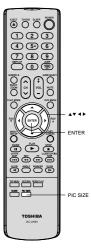


To raise the picture, press ▲.



To lower the picture, press ▼





### Note:

Note:
You can scroll the picture in TheaterWide 2
and TheaterWide 3 only. The scroll amounts
are as follows:

• 480i/480p signal source:
Wide 1: Not adjustable
Wide 2: -10 to +20
Wide 3: -10 to +20

### Selecting the cinema mode

When you view a DVD movie (3.2 pulldown processed) from a DVD player connected to the ColorStream (component video) inputs on the TV/DVD, smoother and more natural motion can be obtained by setting the CINEMA MODE of FILM.

- To set the CINEMA MODE to FILM:

  1. Press MENU, then press ◀ or ▶
  until the SETUP menu appears.

  2. Press ♣ or ▼ to highlight CINEMA
  MODE, then press ◀ or ▶ to select



To set the CINEMA MODE to VIDEO:

Press ◀ or ▶ to select VIDEO in step 2 above

### Using the ASPECT feature

When the ASPECT feature is set to ON and the TV/DVD receives a 480i signal, the picture size is automatically selected (as described in the following table).

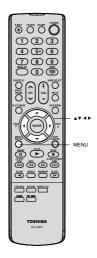
Aspect ratio of signal source	Automatic aspect size (automatically selected when ASPECT is ON)
4:3 Normal	Natural
16:9 Full	Full
4:3 Letter box	TheaterWide
Not defined	User-set mode

If the signal does not include aspect information, the picture size you selected on pages 33 is displayed.

- To turn on the ASPECT feature:

  1. Press MENU, then press ◀ or ▶ until the SETUP menu appears.
  2. Press ▲ or ▼ to highlight ASPECT, then press ◀ or ▶ to select





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### Setting the sleep timer

You can set the TV/DVD so it turns off automatically.

You can set the INDIVE SET RUINS ON BURNINGS OF BURNINGS.

Press SLEEP on the remote control repeatedly to set the length of time until the TV/DVD turns off. The clock will count up 10 minutes for each press of the SLEEP button (0h00m, 0h10m, ...1h50m, 2h00m). After the sleep timer 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 one time. The remaining time will be momentarily

To cancel the sleep timer: Press SLEEP repeatedly until the display turns to 0h00m.

### Using the closed caption feature

- The Closed Caption feature has two options:

  Captions—An on-screen display of the dialogue, narration, and sound effects of programs and videos that are closed-captioned (usually identified as "CC").

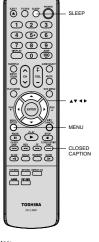
  Text—An on-screen display of information not related to the program, such as weather or stock data (if available in your viewing area).

- To view captions or text:

  1. Tune the TV/DVD to the desired program.
  2. Press MENU, then press ◀ or ▶ to display the SETUP menu.
  3. Press ▲ or ▼ to highlight CLOSED CAPTION.



- Press ◀ or ▶ to select the desired Closed Caption mode, as
- To view captions, select C1 or C2 (C1 displays translation of the
  - To view captions, select C1 or C2 (C1 displays translation o primary language in your area). Note: If the program or video you selected is not closed-captioned, no captions will display on-screen. To view text, select T1 or T2. Note: If text is not available in your viewing area, a black rectangle may appear on-screen. If this happens, set the T0 turn the Closed Caption feature off, highlight OFF in the Closed Caption menu.



- Notes:

  A closed caption signal may not be decoded in the following situations:

  when a video tape has been dubbed

  when the signal reception is weak

  when the signal reception is non-standan

  You also can use the CLOSED CAPTION button to view caption or text.
- OFF  $\longrightarrow$  C1  $\longrightarrow$  C2



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### Adjusting the picture

### Selecting the picture mode

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

Mode	Picture Quality
SPORTS STANDARD MOVIE MEMORY	Bright and dynamic picture (factory-set) Standard picture quality (factory-set) Movie-like picture setting (factory-set) Your personal preferences (set by you; see "Adjusting the picture quality" below)

- fo select the picture mode:

  1. Press MENU, then press ◀ or ▶ to display the PICTURE menu

  2. Press ▲ or ▼ to highlight MODE.



- Press ◀ or ▶ to highlight the mode you prefer.
   Press EXIT to return to normal viewing.

### Adjusting the picture quality

You can adjust the picture quality to your personal preferences, including the brightness, contrast, color, tint, and sharpness. The qualities you choose will be stored automatically in your TV/DVD's memory so you can recall them at any time.

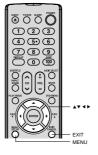
- To adjust the picture quality:

  1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.

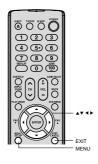
  2. Press ▲ or ▼ until the item you want to adjust is highlighted.
- 3. Press ◀ or ▶ to adjust the level

Selection	◆ Pres	ssing 🕨
BRIGHTNESS	darker	lighter
CONTRAST	lower	higher
COLOR	paler	deeper
TINT	reddish	greenish
SHARPNESS	softer	sharper

4. Press EXIT to return to normal viewing.



You cannot select "MODE" in the Game



Note: The CONTRAST default setting is set to maximum (+50) at the factory.

### Using the CableClear®feature

Cable Clear® reduces visible interference in your TV/DVD picture. This is useful when receiving a broadcast with a weak signal (especially a Cable channel) or playing a video cassette or disc damaged by repeated use.

To turn on the CableClear® feature:

1. Press MENU, then press < or ➤ to display the PICTURE menu.

2. Press ▲ or ▼ to highlight CableClear.



Press ◀ or ▶ to select ON.
 To turn off the CableClear® feature: Select OFF in step 3.

### Selecting the color temperature

Change the picture quality by selecting from three preset color temperatures—cool, medium, and warm—as described in the following

Mode	Picture Quality
COOL	Blueish
MEDIUM	Neutral
WARM	Reddish

- To select the color temperature:

  1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.

  2. Press ▲ or ▼ to highlight COLOR TEMPERATURE.



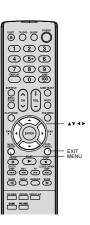
- Press ◀ or ▶ to highlight the mode you prefer
   Press EXIT to return to normal viewing.
- Resetting your picture adjustments

The RESET function returns your pict ollowing factory settings:	ure quality adjustments to the
Modesports	Tint center (0)
Brightness center (25)	Sharpness center (25)
Contrast max (50)	Color temperature cool
0-1 (05)	

- To reset your picture adjustments:

  1. Press MENU, then press ◀ or ▶ to display the PICTURE menu.

  2. Press ▲ or ▼ to highlight RESET, and then press ◀ or ▶.
  - CableClear COLOR TEMPERATURE



You cannot select " COLOR TEMPERATURE" in the Game mode



### Adjusting the sound

### Muting the sound

Press MUTE to temporarily turn off the sound. While the sound is off, the TV screen will display "MUTE" in the lower right-hand corner. To restore the sound, press MUTE again.

### Selecting stereo/SAP broadcasts

The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information.

\*Note: The MTS feature is only available in ANT input source.

When the TV/DVD receives a stereo or SAP broadcast, the "STEREO" or "SAP" displays on-screen every time you turn the TV/DVD on, change the channel, or press DISPLAY.

- To listen to stereo sound:

  1. Press MENU, then press ◀ or ▶ to display the AUDIO menu.

  2. Press ▲ or ▼ to highlight MTS.

  3. Press ◀ or ▶ to highlight STR (stereo).

- In general, you can leave your TV/DVD in stereo mode because the TV/DVD automatically outputs the type of sound being broadcast (stereo or mono).

  If the stereo sound is noisy, select MONO to reduce the noise.



4. Press EXIT to return to normal viewing.

- To listen to a second audio program (SAP):

  1. Press MENU, then press ◀ or ▶ to display the AUDIO menu.

  2. Press ▲ or ♥ to highlight MTS.

  3. Press ◀ or ▶ to highlight SAP. The TV/DVD speakers will output the second audio program instead of normal audio.

  4. Press EXIT to return to normal viewing.

### Adjusting the sound quality

You can change the sound quality of your TV/DVD by adjusting the bass, treble, and balance.

- To adjust the sound quality:

  1. Press MENU, then press ◀ or ▶ until the AUDIO menu

  2. Press ▲ or ▼ to highlight the item you want to adjust.



- 3. Press ◀ or ► to adjust the level.

   ◀ makes the sound quality weaker or decreases the balance in the right channel, depending on the item selected.

   ► makes the sound quality stronger or decreases the balance in the left channel, depending on the item selected.

### 123 4 5 6 789 DISPLAY WOL BUTE Ö

Note:

A second audio program (SAP) can be heard only on those TV stations that offer it. For example, a station might broadcast music as a second audio program. If you have SAP on, you will see the current program on the screen but hear music instead of the program's normal audio.

programs norma audio.

However, if you have SAP on, and the station you are watching is not currently broadcasting a second audio program, the station's normal audio will be output; however, occasionally there is no sound at all in SAP mode. If this happens, set the MTS feature to STEREO mode.

Adjusting the sound quality (bass, treble and balance) does not affect the sound that is output from the headpho

### 40

### Resetting your audio adjustments

The RESET function returns the audio adjustments to the following

To reset your audio adjustments:

1. Press MENU, then press ◀ or ▶ to display the AUDIO menu
2. Press ▲ or ▼ to highlight RESET, and then press ◀ or ▶.



### Using the StableSound® feature

The StableSound feature limits the highest volume level to prever extreme changes in volume when the signal source is changed. To turn on the StableSound® feature:

1. Press MENU, then press ◀ or ▶ lo display the AUDIO menu 2. Press ▲ or ▼ to highlight STABLE SOUND.

3. Press ◀ or ▼ to highlight ON.



To turn off the StableSound® feature Highlight OFF in step 3 above.

### Using the surround sound feature

The surround sound feature expands the audio listening field wider and deeper to create exceptional sound quality from the TV's speakers. The feature uses stereo signals from a TV broadcast or video input.

- To turn on the surround sound feature:

  1. Select the STERED mode, if available (see "Selecting stereo/SAP broadcasts" on page 40.)

  2. Press MENU, then press ◀ or ▶ to display the AUDIO menu.

  3. Press ▲ or ▶ to highlight ON.



To turn off the surround sound feature: Highlight OFF in step 4 above. In general, you can leave your TV in surround mode because it automatically output the type of sound being broadcast (surrou stereo or monaural).

Picture/Audio adjustments in PC mode

AUDIO

HASE 25 THEBLE 25 HALANCE 0 STABLE SOUND OFF SUKKOUND OFF RESET P

Example: Adjust the contrast.

1. In PC mode, press MENU, then press ◀ or ▶ to display the PICTURE menu.

To adjust the brightness of PC Monitor

To adjust the brightness of PC Monitor screen. To adjust the contrast of PC Monitor screen. To adjust the contrast of PC Monitor screen. To adjust the horizontal position of the image on the PC Monitor screen. Each video standard will require a different value for this setting. To adjust the vertical position of the image on the PC Monitor screen. Each video standard will require a different value for this setting. This must be adjusted after the frequency has been set to optimize picture quality. To minimize any vertical bars or stripes visible on the screen background. To adjust the color temperature of the PC Monitor screen. Set to ON, when you select the WVGA mode on the PC. Set to ON, when you select the WXGA Set to ON, when you select the WXGA Set to ON, when you select the WXGA

Set to ON, when you select the WXGA mode on the PC.

Resetting your picture/audio adjustments in PC mode

2. Press ▲ or ▼ to select CONTRAST.

3. Press ◀ or ▼ to adjust the contrast level

4. Press EXIT to return to normal viewing.

PICTURE menu settings: BRIGHTNESS: To adjust

CONTRAST HOR POSITION:

VER POSITION:

RED/GREEN/BLUE:

WVGA INPUT:

WXGA INPUT:

PHASE:

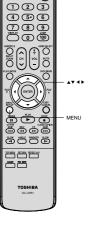
CLOCK:

PICTURE Menu

ERIGHTNESS 25 CONTRAST 50 MOR POSITION 25 VER POSITION 25 PHASE 25 CLOCK 0

PICTURE

There are a number of picture settings you can adjust to optimize the performance of the TV/DVD in PC mode.



### 41

### Selecting the HDMI audio input source

ting an HDMI™ or a DVI device" on page 17 for connection

If you connect a DVI device, you must also connect the analog audio cables to the HDMI audio IN jacks; cele page 17) to hear audio. Set the HDMI audio input setting to "DVI" with this connection.

If you connect an HDMI device and play media with digital audio output, set the HDMI audio input setting to "HDMI" with this connection to hear

oligital audio. If you connect an HDMI device but play media with analog audio output (for example, certain CDVs do not output digital audio), you must also connect the analog audio cables to the HDMI audio IN jacks (see page 17) to hear audio. Set the HDMI audio input setting to "DVI" with this connection.

- to near audo. Set the FLMM audio input setting to DVF with this conin To select the HDMI audio input source: 1. Press MENU, then press ◀ or ▶ to display the AUDIO menu. 2. Press ▼ or ▶ to select HDMI or DVI.



### Adjusting the back lighting feature

If your TV/DVD is in a bright room, the screen image may be difficult to see. You can use the BACK LIGHTING feature to adjust the screen brightness for improved picture clarity. adjust the back lighting:

Press MENU, then press ◀ or ▶ until the SETUP menu appears.

Press ▲ or ▼ to highlight BACK LIGHTING.

### PICTURE SIZE PICTURE SCROLL CINEMA MODE ASPECT PACK LIGHTING

ss ◀ or ▶ to adjust the screen brightr



# Displaying on-screen information

Press DISPLAY to display the following on-screen informat
Clock
Channel number or Video input mode selected
Channel label (if preset)
Stereo or SAP (second audio program) audio status

Content rating
 On timer, Sleep timer (if preset)
 Picture size



123

4 5 6

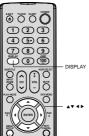
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### Auto power off

The TV/DVD will automatically turn off after approximately 15 minutes if it is tuned to a vacant channel or a station that complits broadcast for the day and stops broadcasting on that channel. This feature does not work in Video input/PC/DVD mode

### Understanding the Power Return feature

If the power is cut off while you are viewing the TV/DVD and the pov DVD on automatically. wer is resupplied, the Power Return feature will turn the TV

If the power is going to be off for a long time or you are going to be away from home for a long time, unplug the power cord from the wall outlet to prevent the TV/DVD from turning on in your absence. 42

# center (25) center (25) center (25)

center (25)

43

### To reset your picture adjustme 1. Press MENU in PC mode.

- o reser your proute adjustments.

  1. Press MENU in PC mode.

  2. Press ◀ or ▼ to select the desired menu.

  3. Press ▲ or ▼ to highlight RESET, and then press ◀ or ▶

# Ô **%**

- Notes:

  If you wish to change the on-screen language, follow the steps 1-3 on page 23.

  If no buttons are pressed for more than approx. 60 seconds, the PC Monitor Menu screen will return to normal Monitor screen visite methods.

AUDIO menu settings:

BASS/TREBLE/BALANCE: To adjust the sound quality of PC mode.

STABLE SOUND: To turn or or if the StableSound® feature in PC mode.

TIO turn on or off the surround office in PC mode.

@ 0 0 0

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TOSHIBA

GAME 78: 92%

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FIECT

### **DVD Playback**

### Playing a disc

This section shows you the basics on how to play a disc. Basic playback DVD VCD CD

Preparations: When connecting to other equipment, turn the power off.

- 1. Press POWER on the unit or on the remote control to turn on the
- 1. Press PUWEN or to account with the Power indicator will light.

  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 on the remote control to select DVD mode.

  The DVD startup screen will appear on the screen. (If DVD disc has already loaded, playback will start automatically.)

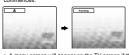


 Load a disc in the disc slot with the label side facing forward. (If the disc has a label.) Hold the disc without touching either of its surfaces, align it with the guides, and place it in position.



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4. On the TV screen, "≜" changes to "Reading" and then playback



. 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



6. Press STOP to end playback

- Depending on the disc you are playing, when you press STOP one time, the TV/DVD remembers the scene that was playing ("" " appears on screen). Press PLAY to resume playback from the stopped scene.
- stopped scene.

  If you press STOP again, the unit will clear the stopped scene ("

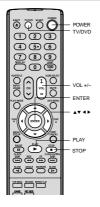
  "

  "

  "

### CAUTION

Keep your fingers well clear of the disc slot when disc is loading or unloading. Neglecting to do so may cause serious



Note: Static electricity may affect the DVD player's operation and cause it to not work properly. If this happens, turn OFF the POWER, disconnect and then reconnect the AC power cord, and turn ON the unit again.

About DVD VCD CD

To start playback in the stop mode Press PLAY.

To pause playback (still mode)
Press PAUSE during playback.
To resume normal playback, press PLAY.
• The sound is muted during still mode.

The ODD ODD 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.

( ) You can use this function with Video CDs.

( ) You can use this function with Audio CDs and CD-R/RW discs.

- Notes:

  If a non-compatible disc is loaded, "Incorrect Disc", "Region Code Error" or "Parental Error" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (see pages 8 and 61).

  Some discs may take a minute or so to start playback.

  When you set a single-faced disc label downwards (ie. the wrong way up), "Reading" will appear on the display for a few minutes and then "Incorrect Disc" will continue to be displayed.

  Some discs may not resume playing the same scene after stopping.

  Resuming cannot function when you play a PBC-featured Video CD while the PBC is on. To turn off the PBC, see page 53.

  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 more the unit during playback. Doing so may damage the disc.

  Use EJECT on the unit to unload and eject the disc.

  Do not put any objects other than discs in the discs lot. Doing so may cause the unit to malfunction.

  There may be a slight delay between the button is pressed and the function activates.

  When an 8 cm disc is loaded in the disc slot, and the playback picture or menu screen does not appear, press PLAY.

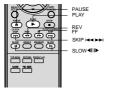
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### Playing in fast reverse or fast forward directions

OVD (VCD) (CD)

Press REV or FF during playback.
REV: Fast reverse playback
FF: Fast forward playback
Each time you press REV or FF, the playback speed changes.

### To resume normal playback Press PLAY.



- Notes:
   The TV/DVD mutes sound during reverse and forward scan of DVD and Video CD discs. Howerer, the TV/DVD plays sound during fast forward or fast reverse play of audio CDs.
- The playback speed may differ depending on the disc.

### Playing frame by frame www

Press PAUSE during still playback.
Each time you press PAUSE, the picture advances one frame.

To resume normal playback Press PLAY.

### Playing in slow-motion ®

Press SLOW ◀I (REVERSE) or I▶ (FORWARD) during playback Each time you press the button, the slow-motion speed changes.

To resume normal playback

### Locating a chapter or track ® © ©

Press SKIP I→ or F→I repeatedly to display the chapter or track number you want.
Playback starts from the selected chapter or track.

SKIP ▶►: To locate succeeding chapters or tracks.

SKIP ►<. 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.

The sound is muted during frame by frame

und is muted during slow-motion playback.
The Video CD cannot play Reverse Slow.

A "Prohibition" symbol X may appear at the upper right 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.

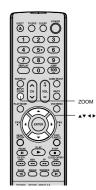
### Zooming @@@@

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 leach press of ZOOM will change the ZOOM Q1 (x 1.3), Q2 (x 1.5) and Q3 (x 2.0).

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

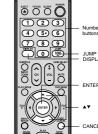
3. In the zoom mode, press ZOOM repeatedly to return to a 1:1 view ( Q Off).



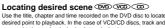
- Notes:

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

  Some discs may not respond to zoom feature.



In case of the Video-CD playback with PBC, the JUMP does not work. To turn off PBC, see page 53.



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, track and time are used to locate the desired point to playback. To check the title, chapter/track and time, press DISPLAY.



3. Press Number buttons (0-9) to input the number.
 If you input a wrong number, press CANCEL.

Refer to the package supplied with the disc to check the numbers.

4. Press ENTER, Playback starts

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

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# JUMP DISPLAY ENTER

### 

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

1. Press MARKER during playback



- Select the blank Marker using ▲ or ▼.
   Then press ENTER at the desired
  - Repeat this procedure to set the other 2 scenes.
- 3. Press MARKER to clear this display

### Returning to the scenes

1. Press MARKER during playback or



2. Press ▲ or ▼ to select the Marker 1-3.



3. Press ENTER . ..... ENTER. Playback starts from the marked scene.

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

### Q THE CO CANCEL

Notes:

• Some discs may not work with the marking

MARKER

- The marking is canceled when you eject the disc or turn the power off.
   Some subtitles recorded around the marker
- may fail to appear.
  In case of Video CD with PBC, the MARKER is prohibited.

To resume normal playback Select Repeat : "Off" in step 2

1. Press PLAY MODE during playback or stop mode.
2. [DVD]
Press ENTER to select "Chapter"
or "Title". Repeat playback ®®®

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

Press ▼ to select "Repeat".

Press ENTER to select "Track" or "All".

[Audio CD and MP3/WMA CD] Please see "Repeat playback" (page 58).

3. Press PLAY MODE again to clear the screen

[Video CD]

A-B Repeat playback ®®®®®

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

points.

1. Press REPEAT A-B during playback.

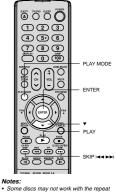


Play Mode

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



- operation.

  In case of Video CD with PBC, Repeat functions are prohibited during playbacl

  Chapter/Track repeat function is cancele whenever SKIP ⊶ or ▶ is pressed.



- Notes:
  In A-B Repeat mode, subtitles near the A or B locations may not be displayed.
  You cannot set the A-B Repeat for the
- You cannot set the A-B Repeat for the scenes that include multiple angles.
   A-B Repeat playback does not work when Repeat playback is activated.
   You may not be able to set A-B Repeat during certain scenes of the DVD.
   A-B Repeat does not work with an interac-
- tive DVD, MP3/WMA/JPEG CD.

   A-B Repeat is prohibited when PBC is on.

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### Program playback ®

You can arrange the playback order of tracks or files on the disc.
And the unit can also select tracks or files at random and playback
them. These feature works for Video CD. For Audio CD and MP3/WMA CD, please see "Program playback" on

1. Press PLAY MODE in the stop mode



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- programming position. Use Number buttons (0-9) to input the Track on
- sequentially.

  To program others, repeat step 3.

  If you input a wrong number, pres SS CANCEL
- Press 4 or ▶ for return to the left column, then press A or ▼ to select the "Program Playback" and press ENTER.

  The programs you selected will start to playback in order.

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

- To change the program

  1. Select Mode to "Program" (as step 2), press ▲/▼/◀/▶ to select the track/file number you want to change, then press CANCEL.

  2. Press Number buttons (0–9) to overwrite the new track/file number.

### To clear the program one by one

Select Mode to "Program", press  $\blacktriangle/\blacktriangledown/\blacktriangleleft/\blacktriangleright$  to select the track/file number. Then press CANCEL.

### To clear all the programs

In the left column, press ▲/▼ to select "Clear Program". Then press ENTER.

### Random playback ©

The unit selects tracks or files at random and playback.
For Audio CD and MP3/WMA CD, please see "Random playback" on

- Press PLAY MODE during playback or stop mode.

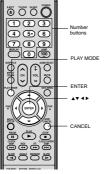
  Press A ▼ to select "Mode", then press ENTER to select "Random".

  Press PLAY

  The Random Playback will start.

  If you set "Random" during playback mode, Random playback will begin after the trackfile that is currently being played has ended.

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



- The program is canceled when you eject the disc or turn the power off.
   In playing back the Video CD with PBC, you cannot set Program playback.



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.

1. Press ANGLE during playback.
The current angle will appear.



2. Press ANGLE repeatedly until the desired angle is selected.

### Title selection ®

DVD menu (DVD)

The Selection County of the street of the st

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.

1. Press DVD MENU during playback.

The DVD menu appears on the screen.

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

2. Press ▲▼(\*/\*/\*) to select the desired item.

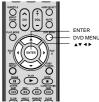
3. Press ENTER.

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

SECTION OF THE PROPERTY OF THE

Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.





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

— DVD MENU — ▲▼ ◀ ▶

### Changing soundtrack language © ©

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

  1. Press AUDIO SELECT during playback. 
  The current soundtrack language will ■1/2 Eng Dolby Digital Press AUDIO SELECT repeatedly until the desired language is selected.
   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



### Subtitles OVD

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

1. Press SUBTITLE repeatedly during playback orded with subtitles, you can select the

- until the desired language selected To turn off the subtitle, press SUBTITLE until
   "Off" appears.
- of full off the subtile, press SOBTILE until Off" appears. The on screen display will disappear after a few seconds.



- Notes:
   If the de

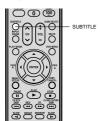
O

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- 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 canceled when you eject the disc. The initial default language or available language will be heard if the disc is played back again.
- If you select DTS in playing DTS-encode disc, no sound will be heard from the TV/ DVD's speakers.



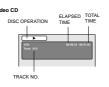
- Notes:

   Depending on the DVD, you may not be able to change subtitles, or to turn subtitles."
- able to change submisses. In on or off.
  While playing a DVD, the subtitle may change when you loaded or eject the disc in some cases, a selected subtitle languagmay not be changed immediately.

### Disc status ® ©

With each press of DISPLAY, the status of the disc will appear on the screen and change as follows.

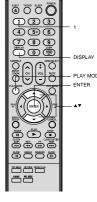
# DISC OPERATION TIME TIME ANGLE NO AUDIO LANGUAGE



### To turn off the PBC 🚥

- Press PLAY MODE in the stop mode.
   Press ▲/▼ to select "Mode", then press ENTER repeatedly until "Off"





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

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### MP3/WMA/JPEG/DivX® and Audio CD operation

This player can playback the MP3/WMA/JPEG/DivX®-data which has been recorded on CD-R/RW. To produce the MP3/WMA/JPEG/DivX®-data, you need a Windows-PC with CD-RW drive and a MP3/WMA/JPEG/DivX®-encoding Software (not supplied). The Apple-HFS-System cannot be

This player requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. There are many different types of recordable disc formats (including CD-R containing MP3/WMA files). Not all recordable discs will produce optimal playback quality. The technical criteria set forth in this owner's manual are meant only as a guide. Use of CD-RW for MP3 files is not recommended.

### MP3/WMA/JPEG/DivX® CD information @

- Limitations on MP3/WMA/JPEG/DivX° CD playback

  MP3/WMA/JPEG/DivX° CD is the disc that is standardized by ISO9660, its file name must include 3-digits extension letters; 'mp3', 'wma'; 'jpg', 'dw', 'dw', 'dw', 'allow', 'a
- This unit can read 600 files per disc. if one directory has more than 600 files, it reads up to 600 files, the remainit will be omitted.
   The unit is able to recognize up to a maximum of 50 directories per disc.
   MPAWMA/JPEG/DIX\*C Ds cannot be used for the purpose of recording.
   If the CD has both CDA audio tracks and MP3WMA/JPEG/DixX\* files, only the CDA audio tracks will be played.
   If may take more than one minute for this unit to read MP3WMA/JPEG/DixX\* files depending on its structure.
   Music recorded by "Joliet Recording Specification" can be played back, the file name is displayed (within 15 lette the screen. Long file names will be condensed.
   The music files recorded by "Hierarchical File System" (HFS) cannot be played.

- Limitations on display:

  The maximum number for display is 15 letters.

  The maximum number for display are the following:
  capital or small alphabets of A through 2, numbers of 0 through 9, and \_ (under score).

  Other letters than those above are replaced in hyphen.

- Notes on MP3/WMA/JPEG/DivX\* files
  To playback MP3/WMA/JPEG/DivX\* CD in the recorded order,
  1. Use MP3/WMA/JPEG/DivX\* CD files that records data alphabetically or numerically.
  2. Name each file including two-digit or three-digit number (ex. "01" "02" or "001" "002").
  3. Refrain from making too many sub-folders.

- CAUTION:
  Some MP3/WMA/JPEG/DivX® CDs cannot be played back depending on the recording conditions.
  The CD-R/RW that has no music data or non MP3/WMA/JPEG/DivX® files cannot be played back.
- Standard, sampling frequency, and the bit rate:

MP3

MPEG-1 Audio

32kHz, 44.1kHz, 48kHz

32kbps - 320kbps (constant bit rate or variable bit rate)

The recommend recording setting for a high-quality sound is 44.1kHz of sampling frequency and 128kbps of constant bit rate.

MA
WMA version 7, and 8
32kHz/48kbps, 44.1kHz/48kbps-192kbps, 48kHz/128kbps-192kbps
The file recorded by mono, 48kHz, 48 kbps is not available to this unit.

The file recorded by monot, asskrtz, 48 ksps is not avanaue to the sum.

Nix\* video

DixX\* version: DixX\* 3, 4, 5, and 6 (specifically 3.1.1, 4.1.2, 5.0.2, 5.0.5, 5.1.1, 5.2.1, 6.0 at Home Theater profile).

Audio format: MPEG1 Layer2 (MP2), MPEG1 Layer3 (MP3)

Sampling frequencies: 32kHz, 44.1kHz, 48kHz

Bit rate: 32kPbs – 320kbps

Resolution: Max 720 x 576 (at 25fps), Max 720 x 480 (at 30fps)

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### MP3/WMA CD and Audio CD playback ©

- Load an Audio CD or a disc on which MP3 or WMA files have been recorded in the disc slot.
- 2. A file browser screen will appear on the
- Press ▲/▼ or ENTER to select folder.



- Itst.

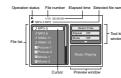
  To see contents in folder, select the folder and then press ENTER. To return to the upstairs directory, select "GOUp ..." then press ENTER.



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- . When PLAY is pressed after the file browser displayed, playba wnen PLAY is pressed after the file browser displayed, playback begins automatically starting from the first file. In this case, if the first file is an MP3/WMA file, only MP3/WMA files are played back in order. If the first file is a JPEG file, the first JPEG file is played back. If the first file is a DIvX\*file, the first JPEG file is played back. If there is no file at a root directory, playback does not begin automatically.
- Press ENTER.
   The selected file starts playing back.
- 5. Press STOP to end playback.
- The unit records the stopped point. "M" appears on the screen. Press PLAY to resume playback (from the scene point). If you press TOP again or unload the disc, the unit will clear the stopped point.

### About file menu



- Notes:

  During MP3/WMA/JPEG playback, you cannot use JUMP, A-B Repeat functions.

  You can use Repeat (Track or All), Random functions and Program playback for MP3/WMA/JPEG/DivX® CD playback (see page
- 758).
  The picture menu is displayed when the FUJICOLOR CD or the Kodak Picture CD are played. To display the file menu, press
- are played. To display the file menu, press TOP MENU. In the case of a CD containing a mixture of MP3, WMA, JPEG and DivX<sup>®</sup> files, the files are played back by selecting them from the ы рыува иаск ру selecting them from the file menu.

  • MP3 or WMA file on the Kodak Picture CD is not recognized on this unit

### Select Files The file type to make it display in the file

- browser can be chosen.

  1. Press ◀ or ▶ to highlight "Select Files" at right column in the file browser.

  2. Press ENTER, then press ▲ or ▼ to select file type from the list (Music, Picture or
- tile type from the list (widshc, Fricture or Movie).

  3. Press ENTER to add/remove check mark. Checked file type will be displayed in the file brower.

  4. Press RETURN to save the setting.

### വമ3് 4 5 6 7 8 9 0 0 ENTER FAV. CONTEN DAY - STOP **₫ ७ ७**

- 1. Load a JPEG disc in the disc slot.
- 2. A file browser screen will appear on the



- 3. Press ▲/▼ to select the desired file.

  To display a thumbnail list, press DVD MENU. (To return to a file browser, press TOP MENU.)

  Press ◀/ I/▲/▼ to select the desired file.

  When PLAY is pressed after displaying the file browser, playback begins automatically starting from the first file. In this case, if the first file is a JPEO file, the first JPEO file is played back. If the first file is a DixX® file, the first DixX® file is played back. If the first file is an MPS/WMA file, only MPS/WMA file ser played back in order. If there is no file at a root directory, playback does not begin automatically.
- Press ENTER or PLAY. The selected picture appears on the screen.



Rotating an image
You can rotate an image by 90 degrees.
Pressing ANGLE during playback of the image

" ♣+", "♣ ", "←♥ " or " ♣ " appears briefly on the screen

Zooming an image

Zoom function also can be used in viewing JPEG files. Press ZOOM (See "Zooming" page 47).

Press STOP to end playback.
 The file browser appears on the screen.
 If you want to watch the other file, repeat steps 3 ~ 4

### Slide show playback @

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

- Preparation:
  Set "JPEG Interval" setting to "5 Seconds", "10 Seconds" or "15 Seconds". (See page 60.) Select your desired starting file for the slide show in the step 3 on the above.
- Press ENTER or PLAY to start slide show from the selected file.

   If you press PAUSE during the slide show, the slide show stops temporarily. "In" appears briefly on the screen. If the picture appears upside down or sideways, press ANGLE repeatedly until it's right side up.

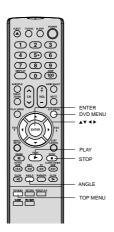
" ≅ , ", " , " + ", " or " appears briefly on the screen.

- Press PLAY or SKIP ➡ again to resume the slide show.

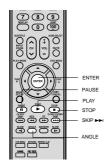
  When slide show playback finished, the file browser appears.

  To stop the slide show, press STOP. The file browser appears.

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During JPEG playback, you cannot use Jump and A-B Repeat functions.



### Divx® CD playback @

- Load a DivX® disc in the disc slot.
- 2. A file browser screen will appear on the



Yes No

- 3. Press ▲/▼ to select the desired file.
  When PLAY has been pressed after displaying the file browser, playback begins automatically starting from the first file. In this case, if the first file is a JPEG file, the first DIV2\* file is played back. If the first file is a DV2\* file, the first DIV2\* file is played back. If the first file is an MP3YWMA file, only MP3YWMA file are played back in order. If there is not file at a root directory, playback does not begin automatically.
- 4. Press ENTER or PLAY. The selected DivX® movie will be played
- Press STOP to end playback.
   The file browser appears on the screen. If you want to watch the other file, repeat steps 3 ~ 4.

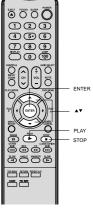
### Playing DivX® VOD content

 $\mathsf{Div}X^{\oplus}$  VOD content is protected by DRM (Digital Rights Management) system. This restricts playback of content to specific registered devices.

If the incorrect DRM file is loaded,
"Authorization Error This player is not
authorized to play this video." will appear on

tne screen.
When you attempt to play DivX® VOD, the
number of plays is limited and the right
message will appear on the screen. If you
wish to play it, select "YES".

If the number of plays goes over the limit, then "Rental Expired" will be displayed, in this case the file will not be played.



Note: In order to play DivX<sup>®</sup> VOD content on this unit, you first need to register the unit with registration code. See page 61.

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### Repeat and program playback using file browser Repeat playback ©

- In the file browser, press ◀/▶ or ▲/▼ to select "Repeat" in stop
- 2. Press ENTER to select "Track" or "All".
- 3 Press PLAY The unit automatically starts repeat playback after finishing the current track.

### Random playback ©

- In the file browser, press ◀/▶ or ▲/▼ to select "Mode" in stop
- 2. Press ENTER to select "Random".
- Press PLAY.
   The Random playback will start.

To resume normal playback Select Mode: "Off" in step 2.

### Program playback ©

In the file browser, press ◀/▶ or ▲/▼ to select "Edit Mode", then press ENTER. When "Edit Mode" is in black screen, the files which you want to add into Program list can be marked.



- 2. Press **◄/▶** or **▲/▼** to select file you want to add into the program Press ENTER. Selected file was marked.
  Repeat this procedure to select the other files
- Press ◀/▶ or ▲/▼ to select "Add To Program".
   Then press ENTER. All marked files are added into the program list.
   When you finish store all files which you want into the Program list, select "Edit Mode" and press ENTER to release Edit Mode.
- Press ◀/▶ or ▲/▼ to select "Program View", then press ENTER. Program View shows only the programed files that you have added in step 2.

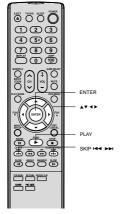


Select "Clear Program" and press ENTER.

Marked file is removed from program list.



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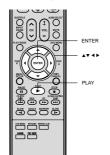


- Notes:

  The Repeat, Random and Program functions are canceled when you eject the function of the state of Audio CD, the function of A-B Repeat can be used. See 'A-B Repeat playback' on page 48.

  Track repeat function is canceled wheneve SKIP 

  \*\*Inch repeat function is canceled wheneve SKIP



### **DVD** function setup

### Customizing the function settings

You can change the default settings of the DVD mode to custo performance to your preference.

# Setting procedure DVD VCD CD 1. Press SETUP during stop mode. The following on-screen display appears.

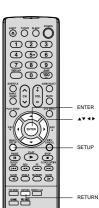
me	Ollowing	g on-scre	en a
THE STATE OF	Menu	: English	$\neg$
YRBC	Subtitle	: English	
	Audio	: English	
CD			
			_

- 2. Press ▲ or ▼ to select the desired section, then press ▶ Press ▲ or ▼ to select the desired option.

- Press ▲ or ▼ to select the desired option.
  Then press ▶ or eINTER. The selectable settings will appear.
  Change the selection using ▲ or ▼, by referring to the corresing pages 80 to 61.
  Press ENTER to save the setting.
   Repeat steps 3 and 5 to change other option.
   To select another section, go back to step 2 by pressing ▼

- To clear SETUP screen, press SETUP or RETURN.

Section	Option Details		Page
(ABC	Menu Subtitle Audio	To select the language of "Menu", "Subtitle" and "Audio" if more than one language are available on the disc.	
	TV Screen	To select a picture size according to the aspect ratio of your TV.	
	Display	To turn On or Off the operational status display on the screen.	60
	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.	
	DRC	To select On or Off for DRC (Dynamic Range Control).	
	Parental	To select a preferred parental level for the parental setting.	61
	Password	Input 4-digit password to set the parental level.	
	DivX(R) VOD	To display your 8-character registration code.	



### Setting details

### Language



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

English, Francais, Espanol: The selected language will be heard or seen.

other language can be selected (see "Language code list" page 63).

Original (Audio):
The unit will select the first priority language of each disc.

- 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 SETUP MENU (see page 23).



4:3 (Letter box): Select this mode when connecting to a cor

TV. When playing back a wide screen-DVD disc, it displays the wide picture with black bands at the top and bottom of screen.

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

Display
On screen display can be switched on or off when you

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

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

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

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.

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 automatically.
After the setting 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.

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

riays data integes 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.

9 0 0 0 1 2 3

4 5 6

789 

SLOW ANGLE WARRIER COM

O

- EJECT

ENTER

### Setting details



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

- ent.

  Loud sound such as explosion is toned down
  slightly when played back. This is suitable when it
  is connected to a stereo.

  It plays back at the recording level on the disc.
- Off:

- **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



Parental control setting
Some discs are specified as not suitable for children. Such discs can be limited not to playback with the unit.

- Press A or ▼ to select "Parental", then press ENTER. "Enter Password" screen will appear.
   Press "0000" using Number buttons (0-9). (Please note, this is pre-setting password of this unit). Then press ENTER. The parental level list

  - unit). Inen press ENTEK. The parential level list will appear.

     Level Off: The parential control setting does not function.

     Level 8: Virtually all DVD software can be played back.

     Level 1: DVD software for adults cannot be
- Played back.

  3) Press ▲ or ▼ to select from the level 1 to level 8. The limitation will be more severe as the level number is lower. Then press ENTER.

- 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.

  The password is required every time when you change the parental level.
- parental level.

  If you input a wrong number, press CANCEL.

- Set the new password

  1) Press ▲ or ▼ to select "Password", then press ENTER. "Enter Current Password" screen will
- appear. 29 Press Number buttons (0-9) to input the current password (if the password has not been set yet after you purchase this unit. il is "0000".

  3) Then press ENTER. There New Password screen will appear. Press Number buttons (0-9) to input the new password.

  4) Press ENTER. Now your new password has been set. Be sure to remember this number!

- If you forget the password.

  1) Press EJECT to remove the disc.
  2) While holding 7 down on the remote control and at the same time press STOP on the front panel.

  Password Clear appears on the screen. Now the password has been returned to the initial value

DivX(R) VOD
In order to play DivX\* VOD (Video On Demand) content on this unit, you first need to register the unit with your DivX\* VOD content provider. You do this by generating a DivX\* VOD registration code, which you submit to your provider.

Press ▲ or ▼ to select "DivX(R) VOD". Then press ENTER. Your 8-character registration code is displayed. Make a note of the code as you will need it when you register with a bix% VOD provider. Then press ENTER to select Done.

**Note:**If each setup (pages 60 to 61) 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.

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### Temporary cancel the rating level by DVD disc

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

1. Load a DVD disc.



- If the DVD disc has been designed to temporarily cancel the Rating level, the screen which follows the "Reading" screen change, depending on which disc is played. If you select "YI with the ENTER key, password input screen will then appea If "NO" is selected, press EJECT to remove the disc.
- Enter the password with Number buttons (0–9). Then press ENTER.
   To exit from the entry, press RETURN.

   Enter Password

  Enter Password

4. Playback will commence if the entered password is correct.



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

### **Appendix**

### Language code list

Enter the appropriate code number for the initial settings "Menu", "Subtitle" and/or "Audio." See page 60.

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

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### **Appendix**

### Troubleshooting

Before calling a service technician, please check the following table for a possible cause of the symptom and some solutions.

Symptom	Solution
TV will not turn on	<ul> <li>Make sure the AC cord is connected securely and then press POWER.</li> <li>The remote control batteries may be dead. Replace the batteries.</li> </ul>
No picture, no sound	Check the antenna/cable connections.
No sound, picture OK	The sound may be muted. Press VOL +/ The station may have broadcast difficulties. Try another channel. The MTS feature may be in SAP mode. Select STR or MONO in the MTS menu.
Poor sound, picture OK	The station may have broadcast difficulties. Try another channel. The MTS feature may be in SAP mode. Select STR or MONO in the MTS menu.
Poor picture, sound OK	Check the antenna connections. The station may have broadcast difficulties. Try another channel. Adjust the PICTURE menu.
Picture and sound are out of sync	As with all products that contain a digital display, in rare instances, when viewing certain content (e.g., levievision broadcasts, video games, DVbs), yo may notice that the sound and picture are slightly out of sync. This phenomenon can be caused by various factors including, without limitation, video processing within the TV, video processing in an attached gaming system, and video processing/different compression rates used by broadcasters in their programming. You may want to try one or more of the following suggestions, which may help to reduce the effect of this phenomenon:  If the TV is connected to an external AV device (e.g., DVD player, video game system, set-lop-box, etc.) always try to use the Color Stream video game system, set-lop-box, etc.) always try to use the Color Stream video game system, set-lop-box, etc.) always try to use the Color Stream video game system, set-lop-box, etc.) always try to videous the color stream video game system, set-lop-box, etc.) always try to videous the color stream videous delay feature, use this feature to help synchronize the sound to the picture.  If connected to a video game system and your TV has the Game Mode feature (see owner's manual of more information), enable this feature.  If you notice this phenomenon only on cetain TV channels, please contact your local broadcast, acley, or satellite provider to inform them of this issue
Poor reception of broadcast channels	The station may have broadcast difficulties. Try another channel. Check the antenna connections.
Cannot receive above channel 13	Make sure TV/CABLE is set to CABLE mode.
Unable to select a certain channel	<ul> <li>The channel may be blocked by the V-Chip feature or CH LOCK feature, or erased with the add/erase feature.</li> </ul>
Cannot access signal input sources (Video1, Video2, ColorStream HD, HDMI and PC) and/or Channels 3 and 4	Check the VIDEO LOCK feature.
Multiple images	The station may have broadcast difficulties. Try another channel. Use a highly directional outdoor antenna.
Poor color or no color	The station may have broadcast difficulties. Try another channel. Adjust the TINT and/or COLOR in the PICTURE menu.
Black box on screen	<ul> <li>Select OFF in the Closed Caption menu to turn off the Closed Caption Tex mode.</li> </ul>
No stereo or SAP sound from a known MTS broadcast	Make sure the MTS feature is set properly (AUDIO menu).
The V-Chip password does not work (U.S. V-Chip system only)	Change or reset your password.
The remote control does not operate	Remove all obstructions between the remote control and the TV.     The remote control batteries may be dead. Replace the batteries.
The top panel buttons do not operate	Check the PANEL LOCK feature.

### Troubleshooting (continued)

Symptom of DVD	Solution		
Playback doesn't start	No disc is loaded. The disc may be dirty. Clean the disc. The unit cannot play CD-ROMs, etc.		
No picture	TV/DVD selector is not set correctly.		
No sound	Make sure the input selector of the amplifier is set properly.     The unit is in the special playback mode.     Select the correct Audio Output/Input position on AV amplifier.		
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 perform certain functions.		
No on-screen display	Set Display to On.		
No surround sound	The setup does not match your stereo system.		
The unit or remote operation key is not functioning	<ul> <li>Turn off the unit and unplug the AC power cord for several minutes then replug it.</li> </ul>		
Playback does not start when the title is selected	Check the Parental level setup.		
Audio soundtrack and/or subtitle language is not changed when you playback a DVD	Multilingual language is not recorded on the DVD disc.		
No subtitle	Some discs have no subtitles.     Subtitles are cleared. Press SUBTITLE.		
Angle cannot be changed	Multi-angles are not recorded on the DVD discs.		
"X" appears on the screen	The function is prohibited with the unit or the disc.		

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### Specifications

Specifications	
Notes:	
	with the specifications listed below.
	tions are subject to change without notice.
This model may not b	e compatible with features and/or specifications that may be added in the future.
Television	
LCD panel	20.04 inches (508.9 mm diagonal) (approx.)
	(Screen size is approximate.)
Display method	Color TFT LCD
Number of pixels	1366 (Horizon) x 768 (Vertical)
Television system	NTSC standard
Tuner type	F-Synth
Channel coverage	VHF: 2 – 13
	UHF: 14 – 69
	Cable TV: 4A, A-5 – A-1, A-I, J – W, W+1 – W+84
Antenna input	VHF/UHF 75 ohm
Power source	120V AC, 60 Hz
Power consumption	100 W
Audio power	2.5 W + 2.5 W
Speaker type	1.8 x 3.9 inches (45.7 x 99.1 mm), 8 ohm x 2
Video/Audio terminals	S-VIDEO INPUT
	Y-INPUT: 1V (p-p), 75 ohm, negative sync., Mini DIN 4pin x 1
	C-INPUT: 0.286V (p-p) (burst signal), 75 ohm
	VIDEO/AUDIO INPUT
	VIDEO: 1V (p-p), 75 ohm, negative sync., pin jack x 2
	AUDIO: -8dBm, 50k ohm, negative sync., pin jack (L/R) x 4
	ColorStream® (component video) INPUT
	Y: 1V (p-p), 75 ohm
	P <sub>e</sub> : 0.7V (p-p), 75 ohm
	P <sub>a</sub> : 0.7V (p-p), 75 ohm
	DIGITAL AUDIO OUTPUT (Coaxial) DVD mode only
	0.5V (p-p), 75 ohm, pin jack x 1
	HEADPHONE
	Ø3.5mm stereo mini jack x 1
	HDMI INPUT: HDMI compliant (type A connector)
	HDCP compliant
	E-EDID* compliant
	Suggested scan rates: 1080i, 480p, 480i, 720p
	HDMI Audio: 2-channel PCM
	32/44.1/48 kHz sampling frequency
	16/20/24 bits per sample
	PC Monitor Input
	Mini-Dsub 15pin x 1
Dimensions	Width: 21-13/16 inches (554 mm)
	Height: 17-5/8 inches (448 mm)
	Depth: 8-11/16 inches (220 mm)
Weight	19.8 lbs. (9.0 kg)
Supplied accessories	Remote control (DC-LWB1) with two size "AAA" batteries
	Owner's Manual (This booklet)
DVD/CD Player	
Signal system	NTSC
Applicable disc	1. DVD (12cm, 8cm)
, ippiiodoio diac	2. CD (12cm, 8cm)
Pickup	1-Lens. 2-Beams System
· romap	1 Edito, 2 Edutino Gyaldii

<sup>\*</sup> E-EDID = Enhanced-Extended Display Identification

WARNING: If you decide to wall mount this television, always use a UL-approved wall bracket appropriate for the size and weight of this television. The use of any wall bracket other than a UL-approved wall bracket appropriate for the size and weight of this television. Twe wall mounting this television or took bodily injury and/or property damage

### **Limited United States Warranty**

### LCD TV/DVD Combination - Depot Repair Warranty

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

LCD TV/DVD 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 BYTHESE WARRANTIES.

LCD TV/DVD COMBINATIONS PURCHASED ANYV 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 One (1) Year Warranty on Parts and Labor TACP warrants this LCD TV/DVD Combination and its parts against defects in materials or workmanship for a period of one (1) year after the date of original retial purchase. DURING THIS PERIOD, TACP WILL, AT TACP? SO PTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR REPLACE A DEFECTIVE PART WITH A NEW OR

Rental Units
The warranty for LCD TV/DVD 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.

Commercial Units
LCD TV/IOVD Combinations sold and used for commercial
purposes have a limited warranty for all parts and labor, which
warranty begins on the date of original retail purchase and ends
on the date that is ninety (90) days thereafter.

Owner's Manual and Product Registration Card
Read this owner's manual thoroughly before operating this LCD
TV/DVD Combination.

Complete and mail the enclosed product registration card or register your LCD TV/DVD Combination on-fine at http://www.tcp.cbnbiba.com/service as soon as possible. By registering your LCD TV/DVD Combination you will enable TACP to bring you new products specifically designed to neet your needs and help us to contact you in the unlikely event a safety onficiation is required under the U.S. Consumer Product Safety Act. Fallure to complete and return the product registration card does not diminist your warranty rights.

Your Responsibility
THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING
CONDITIONS:

- You must retain your bill of sale or provide other proof of purchase.
- purcrasse.

  2. All warranty servicing of this LCD TV/DVD Combination must be made by the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center.

  (3) The warranties from TACP are effective only if the LCD TV/DVD Combination is purchased and operated in the Continental U.S.A. or Puerto Rico.
- (4) Labor service charges for set installation, setup, adjustmen customer controls, and installation or repair of antenna syste are not covered by this warranty. Reception problems caus by inadequate antenna systems, misaligned satellite dishecable television distribution, VCRs, DVD players/recorders,

- personal computer level IEEE-1394 devices, and any other connected signal source device are your responsibility.
- connected signal source device are your responsibility. Warranties setted not by the defects in materiate or workmanship as limited above, and do not extend to any LCD TV/DVD Combination or parts that have been lost or discarded by you or to damage to the LCD TV/DVD Combination or parts stated by you crould be the CD TV/DVD Combination or parts caused by firest, misuse, accident, Acts of God (such as lightning or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions trunshed by TACP, use or mailtruction through simultaneous use of this LCD TV/DVD Combination and connected equipment, or to write that have been modified or had the serial number removed, altered, deleaded, or enclored fleighte.

How to Obtain Warranty Services
II, after following all of the operating instructions in this manual and checking the section "Troubleshooting," you find that service is needed:

- For instructions on how to obtain warranty service for your LCD Television, contact TACP's Consumer Solution Center toll free at 1-800-631-3811.
- at 1-800-631-3811. You must include a copy or original bill of sale or other proof of purchase along with the entire LCD TV/DVD Combination to the Depot Warrany Repair Center specified by the TACP Consumer Solutions Center. You are responsible for all infound transportation and insurance charges for the LCD TV/DVD Combination to the Depot Warranty Repair Center specified by the TACP Consumer Solutions Center.

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

ALL WARRANTIES IMPLIED BY THE LAW OF ANY STATE OF THE U.S.A., INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABLITY AND THE IMPLIED WARRANTIES OF MERCHANTABLITY AND THINESS FOR A RARTICULAR OF THE LAW OF THE LAW

No person, agent, distributor, dealer, or company is authorized to change, modify, or extend the terms of these warranties in any manner whatscever. The time within which an action must be commenced to enforce any obligation of TACP arising under the warranty or under my statuto 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 state law.

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

### Limited Canada Warranty

LCD TV/DVD (from for 14" to 32" Television Models)

Toshiba of Canada Limited ("TCL") makes the following limited warranties to original consumers in Canada. THESE LIMITED WARRANITIES EXTENIO TO THE ORIGINAL CONSUMER PURCHASER OR ANY PERSON RECEIVING THIS LCD TV/DVD AS A GIFT FROM THE ORIGINAL CONSUMER PURCHASER AND TO NO OTHER PURCHASER OR TRANSFEREE.

PRODUCTS PURCHASED IN THE U.S.A. AND USED IN CANADA ARE NOT COVERED BY THESE WARRANTIES

PRODUCTS PURCHASED IN CANADA AND USED IN THE U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

U.S.A. ARE NOT COVERED BY THESE WARRANTIES.

Limited One (1) Year Warranty on Parts and Labor

T.C. warrants his LEO TY/D/DV and the parts against defects in materials or workmenship for a period of one (1) year after the date or original retail guntanea. DURING HIS FERIOD, TO, WILL AT TCLS OPTION, REPAIR OR REPLACE A DEFECTIVE PART WITH A NEW OR BEFURSHED PART WITHOUT CHARGE TO YOU FOR PARTS OR LABOR, YOU MUST DELIVER THE ENTIRE LEO DY/DVD TO AN AUTHORIZED TCL SERVICE DEPOT. YOU MUST PAY FOR ALL TRANSPORTATION AND INSURANCE CHARGES FOR THE TELEVISION TO AND FROM THE SERVICE DEPOT.

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

whichever comes first.

"United Warranty for Commercial Units
TC. warrants LCD TV/TVD units sold and used for commercial
purposes so follows: all parts are warranted against defects in
materials or workmanship for a period of ninety (90) days after the
ate of original parts are United This SPRIOD, TCL WILL,
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Owner's Manual and Product Registration
Read this owner's manual thoroughly before operating this television.

television.

Register your product online at www.loshiba.co as soon as possible By registering your product on your product on your product on your product you will enable TOL to provide you with better customer service and improved product support. Failure to register your product does not diminish your warranty rights.

- Your Responsibility
  THE ABOVE WARRANTIES ARE SUBJECT TO THE FOLLOWING
  CONDITIONS:

  (1) You must provide your bill of sale or other proof of purchase.

  (2) All warranty servicing of this LCD TV/DVD must be performed
  by an Authorized TCL. Service Depot.

  (3) These warranties from TCL are effective only if the LCD TV/DVD
  as purchased in Clarada from an authorized TCL dealer and

  (3) New Condition of the Condition
- operated in Canada.

  (4) Labor charges for installation, setup, adjustment of customer controls, and installation or repair of antenna systems are no covered by these warranties. Reception problems caused by inadequate antenna systems are your responsibility.

(5) Warranties extend only to defects in materials or workmanship as limited above, and do not extend to any television or parts that have been lost or discarded by you or to diamage to the control of the control of the control of the control of the God (such as lighting or fluctuations in electric power), improper installation, improper maintenance, or use in violation of instructions furnished by TCL: use or maifunction through simultaneous use of this product and connected equipment or to units that have been modified or had the serial number removed, altered, defected, or redended illegible.

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How to Obtain Warranty Services

If, after following all of the operating instructions in this manual and checking the "froubleshooting" section, you find that service is only in the service is more senses. It C. Authorized Service Depot, visit TCL's web site at www.loshiba.ca.

Persent your following the side or other proof of purchase to the Authorized Service Depot.

For additional information, visit TCL's web site: www.loshiba.ca.

Authorized Service Depot.

For additional Information, visit TCL's web site:
www.toshiba.ca

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### **CAUTION**

THIS LCD COLOR TELEVISION EMPLOYS A LASER SYSTEM.

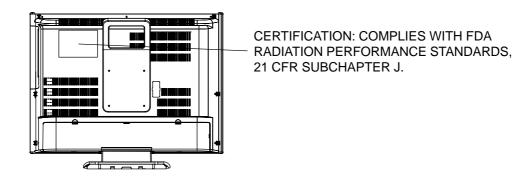
TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS SERVICE MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE.

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.



### PREPARATION OF SERVICING

The laser diode used for a pickup head may be destroyed with external static electricity.

Moreover, even if it is operating normally after repair, when static electricity discharge is received at the time of repair, the life of the product may be shortened.

Please perform the following measure against static electricity, be careful of destruction of a laser diode at the time of repair.

- Place the unit on a workstation equipped to protect against static electricity, such as conductive mat.
- Soldering iron with ground wire or ceramic type is used.
- A worker needs to use a ground conductive wrist strap for body.

### IMPORTANT SERVICE SAFETY INFORMATION

Safety precautions to be followed during servicing:

- Parts marked with an △ are critical parts for safety. Replace only with the one described in the parts list
- 2. Before returning the DVD product to the customer, make the appropriate leakage current check or resistance measurements to ensure that exposed parts are properly insulated from the supply circuit.

A leakage current check is recommended for this unit. Plug the AC line cord directly into a 120V 60Hz AC outlet (do not use an isolation transformer for this check). Use a leakage current tester (Fig. 1) or a metering system which complies with Underwriters Laboratories (UL 1492P). Measure for current from all exposed metal parts of the cabinet to a known earth ground: particularly, any exposed metal part having a return path to the chassis. Any current measured must not exceed 0.5mA. Any measurement not within the limits outlined above are indicative of a potential shock hazard and corrective action must be taken before returning the unit to the customer.

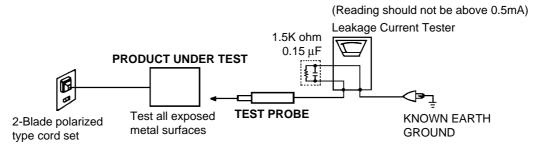


Fig. 1 AC Leakage Test

### IMPORTANT SAFEGUARDS

### 1. READ INSTRUCTIONS

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

### 2. RETAIN INSTRUCTIONS

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

### 3. HEED WARNINGS

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

### 4. FOLLOW INSTRUCTIONS

All operating and use instructions should be followed.

### 5. CLEANING

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

### 6. ATTACHMENTS

Do not use attachments not recommended by the unit's manufacturer as they may cause hazards.

### 7. WATER AND MOISTURE

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

PORTABLE CART WARNING

### 8. ACCESSORIES

Do not place this unit on an unstable cart, stand, tripod, bracket, or table. The unit may fall, causing serious injury, and serious damage to the unit. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer.

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



(symbol provided by RETAC)

### 9. VENTILATION

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

### 10. POWER SOURCES

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

### 11. GROUNDING OR POLARIZATION

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

### 12. POWER-CORD PROTECTION

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

### 13. LIGHTNING

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

### 14. POWER LINES

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

### 15. OVERLOADING

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

### 16. OBJECT AND LIQUID ENTRY

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

### **IMPORTANT SAFEGUARDS**

(CONTINUED)

### 17. OUTDOOR ANTENNA GROUNDING

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

### 18. SERVICING

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

### 19. DAMAGE REQUIRING SERVICE

Unplug this unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:

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

### 20. REPLACEMENT PARTS

When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original parts.

Unauthorized substitutions may result in fire, electric shock or other hazards.

### 21. SAFETY CHECK

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

### 22. WALL OR CEILING MOUNTING

The product should be mounted to a wall or ceiling only as recommended by the manufacturer.

### **23. HEAT**

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

### 24. DISC TRAY

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

### 25. CONNECTING

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

### 26. SOUND VOLUME

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

### 27. SOUND DISTORTION

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

### 28. HEADPHONES

When you use the headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.

### 29. LASER BEAM

Do not look into the opening of the disc tray or ventilation opening of the product to see the source of the laser beam. It may cause sight damage.

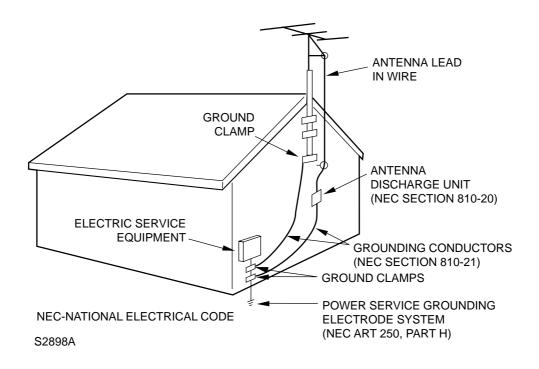
### 30. DISC

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

### 31. NOTE TO CATV SYSTEM INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

### EXAMPLE OF ANTENNA GROUNDING AS PER THE NATIONAL ELECTRICAL CODE



### WHEN REPLACING DVD DECK

### [ When removing the DVD Deck ]

Before removing Pick Up PCB and DVD PCB connector, the short circuit the position shown in **Fig. 1** using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.

### [ When installing the DVD Deck ]

Remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD PCB connector.

### **NOTE**

- Before your operation, please read "PREPARATION OF SERVICING".
- Use the Lead Free solder.
- Manual soldering conditions
- Soldering temperature: 350 ± 5°C
- Soldering time: Within 2 seconds
- Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the draw in equipment over the Pick Up Unit to keep the Flux smoke away from it.

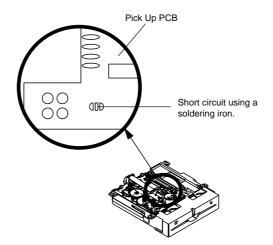
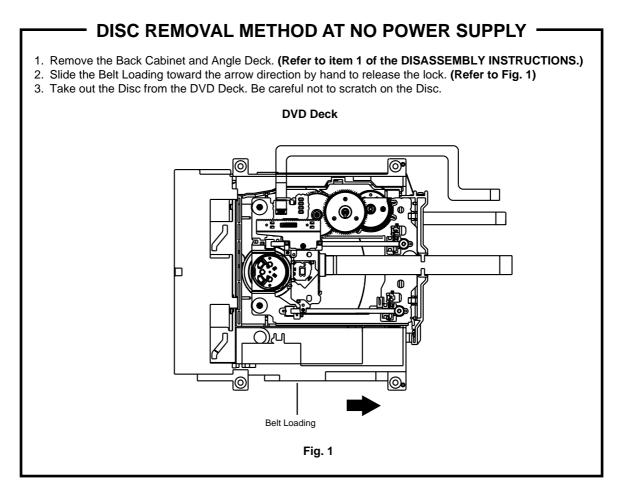


Fig. 1



# PARENTAL CONTROL - RATING LEVEL 4 DIGIT PASSWORD CANCELLATION

If the stored 4 digit password in the Rating Level menu needs to be cancelled, please follow the steps below.

- 1. Turn Unit ON.
- 2. Set the DVD to the Stop Mode.
- 3. Check that 'No disc' is displayed on the screen.
- 4. Press and hold the 'STOP' button on the front panel.
- 5. Simultaneously press and hold the '7' key on the remote control unit.
- 6. Hold both keys for more than 2 seconds.
- 7. The On Screen Display message 'PASSWORD CLEAR' will appear.
- 8. The 4 digit password has now been cleared.

### TRAY LOCK

The disk cannot be taken out by setting the Tray Lock, please follow the steps below.

- 1. Turn Unit ON.
- 2. Set the DVD to the Stop Mode.
- 3. Press it in order of 'SETUP', 'SUBTITLE', '3', 'AUDIO' and '0' key of a remote control unit.
- 4. The On Screen Display message ' ch' ' will appear.
- 5. The Tray Lock has now been set up.

To unlock the Tray Lock, please follow the steps below.

- 1. Turn Unit ON.
- 2. Set the DVD to the Stop Mode.
- 3. Press it in order of 'SETUP', 'SUBTITLE', '3', 'AUDIO' and '0' key of a remote control unit.
- 4. The On Screen Display message '☐' 'will appear.
- 5. The Tray Lock has now been cleared.

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JACK2TUNER/STEREO	H-1, H-2 H-3, H-4
JACK2 TUNER/STEREO AV SWITCH2	H-5, H-6
JACK2 TUNER/STEREO AV SWITCH2 SOUND	H-5, H-6 H-7. H-8
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER	H-5, H-6 H-7, H-8 H-9, H-10
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29 H-30
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29 H-30
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41 H-42
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41 H-42
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43 H-44
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2 SW	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43, H-44
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2 SW INTERCONNECTION DIAGRAM	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43, H-44 H-45, H-46 H-47, H-48
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2 SW INTERCONNECTION DIAGRAM WAVEFORMS	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43, H-44 H-45, H-46 I-1~I-8
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO//IDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2 SW INTERCONNECTION DIAGRAM WAVEFORMS MECHANICAL EXPLODED VIEWS	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43, H-44 H-45, H-46 H-47, H-48 I-1~I-3 J1-1~J1-3
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2 SW INTERCONNECTION DIAGRAM WAVEFORMS MECHANICAL EXPLODED VIEWS DVD DECK EXPLODED VIEWS DVD DECK EXPLODED VIEWS	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43, H-44 H-45, H-46 H-47, H-48 I-1~I-3 J1-1~J1-3 J2-1
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2 SW INTERCONNECTION DIAGRAM WAVEFORMS MECHANICAL EXPLODED VIEWS DVD DECK EXPLODED VIEWS DVD DECK EXPLODED VIEWS MECHANICAL REPLACEMENT PARTS LIST	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43, H-44 H-45, H-46 H-47, H-48 I-1~I-3 J1-1~J1-3 J2-1 K1-1 K1-2
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2 SW INTERCONNECTION DIAGRAM WAVEFORMS MECHANICAL EXPLODED VIEWS DVD DECK EXPLODED VIEWS DVD DECK EXPLODED VIEWS MECHANICAL REPLACEMENT PARTS LIST	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43, H-44 H-45, H-46 H-47, H-48 I-1~I-3 J1-1~J1-3 J2-1 K1-1 K1-2
JACK2 TUNER/STEREO AV SWITCH2 SOUND POWER OPERATION/REMOCON MICON SCALER ADC LVDS JACK AV SWITCH1 REGULATOR INTERFACE_HDMI IC HDMI MICON2 MPEG/MICON/DSP/RF_AMP MEMORY AUDIO/VIDEO MOTOR DRIVE REGULATOR2 OPERATION2 POWER2 SW INTERCONNECTION DIAGRAM WAVEFORMS MECHANICAL EXPLODED VIEWS DVD DECK EXPLODED VIEWS DVD DECK EXPLODED VIEWS	H-5, H-6 H-7, H-8 H-9, H-10 H-11, H-12 H-13, H-14 H-15, H-16 H-17, H-18 H-19, H-20 H-21, H-22 H-23, H-24 H-25, H-26 H-27, H-28 H-29, H-30 H-31, H-32 H-33, H-34 H-35, H-36 H-37, H-38 H-39, H-40 H-41, H-42 H-43, H-44 H-45, H-46 H-47, H-48 I-1-I-3 J1-1~J1-3 J2-1 K1-1, K1-2 K2-1

Color TFT LCD   1366(H) x 768(V)   1366(H) x 768(H) x 768(V)   1366(H) x 768(H) x				1.00.01 (11/1 1.01	1.00	I = 1 /	<u> </u>
Number of Pixels   View Range		20.04 inch / 508.9mmV		LCD Size / Visual Size	LCD	TV	G-1
View Range		Color TFT LCD		LCD Type		System	
Color System   Position   System   Speaker   Position   Size   Inpedance   Sound Output   Max   2.5W + 2.5W   10%(Typical)   System   Disc		1366(H) x 768(V)		Number of Pixels			
Color System   Position   System   Speaker   Position   Size   Inpedance   Sound Output   Max   2.5W + 2.5W   10%(Typical)   System   Disc		89/89 degree	Left/Right	View Range			
Color System   Position   Size   Size   Insert   Size   Size   Insert   Size		•	•	Tion Traingo			
Speaker			Op/Down		Color System		
Position   Frint   1.8 x 3.9 inch   8 ohm   8 ohm   1.8 x 3.9 inch   1.8							
Size   1.8 x 3.9 inch   8.0 hm		·			Speaker		
Impedance		Front		Position			
Sound Output		1.8 x 3.9 inch		Size			
Sound Output		8 ohm		Impedance			
G-2   DVD System		2 5W + 2 5W			Sound Output		
Color System   Disc					Count Cutput		
Disc				10 /8(1 ypical)	Onlan Contains	DVD Constant	<del></del>
Disc Diameter   Dive   DSM-2   Astual   Actual   Actual	\". I OD					טעט System	G-2
Disc Diameter					Disc		
Drive   Search speed   Fwd	at Only)	DVD-R/RW (Video Format On					
Search speed					Disc Diameter		
Search speed		DSM-2			Drive		
Actual   2-45 times (DVD, VIDEO (				Fwd	Search speed		
Rev	CD)		Actual	1 110	Coaron opoca		
Rev	CD)		Actual				
Actual   2-45 times (DVD), VIDEO (		. ,					
Slow speed				Rev		I	1
Slow speed	CD)	2-45 times (DVD, VIDEO CD)	Actual			İ	1
Slow speed		4-40 times (CD)				I	1
G-3   Tuning   Broadcasting System   Tuner and   System   US System M   Tuner and   Receive CH   Destination   US (W/CABLE)   CH Coverage   2-69, 4A, A-5-A-1, A-I, J-I (CH Coverage   2-69, 4A, A-5-A-1, A-I (CH Coverage   2-69, 4A, A-5-A-1, A-I (CH Coverage   2-69, 4A, A-5-A-1, A-I (CH Coverage   2-69, 4A, A-5-A-I, A-I (CH				Fwd	Slow speed	1	
Rev			Actual		c.c speed		
C-3   Tuning   Broadcasting System   System   Tuner and   Receive CH   Destination   US (W/CABLE)   CH Coverage   2-69, 4A, A-5-A-1, A-I, J-I			Actual	Dov		I	1
System   Broadcasting System   Tuner and Receive CH   Destination   US System M   1Tuner				Rev			
System			Actual				
Receive CH		US System M			0 ,	Tuning	G-3
CH Coverage   2-69, 4A, A-5-A-1, A-I, J- Intermediate   Picture(FP)   45,75MHz   45,75MHz   45,00MHz     Frequency   Sound(FS)   41,25MHz   45,00MHz     FP-FS   45,00MHz   45,0MHz     FP-FS   45,00MHz     FP-FS   45,00MHz		1Tuner		System	Tuner and	System	
CH Coverage   2-69, 4A, A-5-A-1, A-I, J- Intermediate   Picture(FP)   45,75MHz   45,75MHz   45,00MHz     Frequency   Sound(FS)   41,25MHz   45,00MHz     FP-FS   45,00MHz   45,0MHz     FP-FS   45,00MHz     FP-FS   45,00MHz		US (W/CABLE)		Destination	Receive CH	-	
Intermediate   Ficture(FP)   45.75MHz   41.25MHz     Frequency   Sound(FS)   41.25MHz     Frequency   FP-FS   45.00MHz     Preset CH   No     Stereo/Dual TV Sound   US-Stereo     Tuner Sound Muting   Yes     G-4   Signal   Video Signal   Input Level   1 V p-p/75 ohm     Output Level       S/N Ratio (Weighted)       Horizontal Resolution at DVD Mode       RGB Signal   Output Level       Audio Signal   Input Level       Output Level   3t TV       Output Level   at DVD       at TV       Digital Output Level   0.5 V p-p/75 ohm     S/N Ratio at DVD (Weighted)       Harmonic Distortion       Frequency Response : at DVD   at SVCD       at SVCD       at SVCD       at SVCD       Audio Signal   Output Level       Frequency Response : at DVD       Audio Signal   Output Level       Digital Output Level       Audio Signal   Output Level       Digital Output Level       Audio Signal   Output Level       Output Level       Audio Signal   Output Level       Audio Signal   Output Level       Audio Signal   Output Level       Output Level       Audio Signal   Output L	I~W W+1~W+84	,		CH Coverage			
Frequency   Sound(FS)   FP-FS   41.25MHz	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				Intermediate		
FP-FS				<b>'</b>			
Preset CH   Stereo/Dual TV Sound   US-Stereo					Frequency		
Stereo/Dual TV Sound   Tuner Sound Muting				FP-FS			
Tuner Sound Muting		No			Preset CH		
Signal   Video Signal   Input Level   1 V p-p/75 ohm		US-Stereo			Stereo/Dual TV Sound		
Signal   Video Signal   Input Level   1 V p-p/75 ohm		Yes			Tuner Sound Muting		
Output Level				Innut Level		Signal	G-4
S/N Ratio (Weighted)					viaco eigila.		•
Horizontal Resolution at DVD Mode							
RGB Signal							
RGB Signal			DVD Mode	Horizontal Resolution at I			
Audio Signal   Input Level							
Output Level   at DVD       at TV				Output Level	RGB Signal		
Output Level   at DVD       at TV		-8.0dBm/50k ohm		Input Level	Audio Signal		
At TV			at DVD	Output Level	S .		
Digital Output Level							
S/N Ratio at DVD (Weighted)			ativ	Digital Output Laval		İ	1
Harmonic Distortion			-41\			1	
Frequency Response : at DVD			ntea)	` 0		I	1
at Video CD   at SVCD   at SVCD   at CD						I	1
at Video CD   at SVCD   at SVCD   at CD			at DVD	Frequency Response :		İ	1
At CD			at Video CD			I	1
At CD			at SVCD			I	1
Power   Power Source   AC   120V, 60Hz			at CD				
DC			u. 0D	ΔC	Power Source	Power	G-5
Power Consumption		1207, 0002			Fower Source	l. owei	اقتقا
at DC Stand by (at AC) 1W at 120V 60Hz Energy Star Yes Per Year kWh/Year				DC		1	
Stand by (at AC)       1W at 120V 60Hz         Energy Star       Yes         Per Year       kWh/Year					Power Consumption	I	1
Energy Star Yes Per Year kWh/Year			at DC			İ	1
Energy Star Yes Per Year kWh/Year		1W at 120V 60Hz		Stand by (at AC)		İ	1
Per Year kWh/Year						Ī	ĺ
						I	1
FIDICULUI FUNCI FUSC   1 ES					Protector	I	1
					FIOLEGIOI	İ	1
Safety Circuit Yes				•		I	1
IC Protector(Micro Fuse) Yes				IC Protector(Micro Fuse)		<u> </u>	
G-6 Regulation Safety UL/CSA		UL/CSA		Safety		Regulation	G-6
Radiation FCC/IC						I -	1
Laser DHHS						1	
						Tomporotives	G. 7
						remperature	اع-ر
Storage -20oC ~ +60oC				Storage			
G-8 Operating Humidity Less than 80% RH		Less than 80% RH			lity	Operating Humid	G-8

G-9	Clock and	Clock		Yes
G-9	Timer	Sleep Timer	Max Time	120 Min
	Tiller	Sieep Timei		
			Step	10Min
		On Timer	Program	<u>Yes</u>
		Off Timer	Program	No
		Game Timer		<u>Yes</u>
		Wake Up Timer		No
		Timer Back-up (at Por	wer Off Mode) more than	Min Sec
G-10	Remote	Unit	,	RC-LT
	Control	Glow in Dark Remoco	n	Yes
		Remocon Format		TOSHIBA
		Format		TOSHIBA
		Custom Code		40-BF h ,44-BB h ,45-BA h ,45-BC h
		Power Source	\/-\t(D.C)	
		Power Source	Voltage(D.C)	3V
			UM size x pcs	UM-4 x 2 pcs
		Total Keys		49 Keys
		Keys	Power	Yes
			EJECT	Yes
			SLEEP	Yes
			TV/DVD	Yes
	1		1	Yes
	1		2	Yes
	1			Yes
	1		3	
	1		4	Yes
			5	Yes
			6	Yes
			7	Yes
			8	Yes
			9	Yes
			0	Yes
			100 / JUMP	Yes
			DISPLAY	Yes
				Yes
			SUBTITLE	
			AUDIO SELECT	Yes
			INPUT / ZOOM	Yes
			MUTE	Yes
			CH +	Yes
			CH -	Yes
			VOL+	Yes
			VOL -	Yes
			PLAY MODE	Yes
			DVD MENU	Yes
			UP	Yes
				Yes
			LEFT / FAV -	
	1		ENTER	Yes
	1		RIGHT / FAV +	Yes
	1		DOWN	Yes
	1		TV MENU/SETUP	Yes
	1		EXIT / CANCEL	Yes
	1		GAME	Yes
	1		PIC SIZE	Yes
	1		PAUSE	Yes
	1		PLAY	Yes
	1			
	1		STOP	Yes
			CH RTN / <skip< td=""><td>Yes</td></skip<>	Yes
			SEARCH -	Yes
			0545011	Yes
			SEARCH+	
			Closed Caption / SKIP>	Yes
			Closed Caption / SKIP>	
			Closed Caption / SKIP> < SLOW	Yes Yes
			Closed Caption / SKIP> < SLOW ANGLE	Yes Yes Yes
			Closed Caption / SKIP> < SLOW ANGLE Marker	Yes Yes Yes Yes Yes
			Closed Caption / SKIP> < SLOW ANGLE Marker SLOW >	Yes Yes Yes Yes Yes Yes
			Closed Caption / SKIP> < SLOW ANGLE Marker SLOW > TOP MENU	Yes Yes Yes Yes Yes Yes Yes Yes
			Closed Caption / SKIP> < SLOW ANGLE Marker SLOW >	Yes Yes Yes Yes Yes Yes

Features	Auto Shut Off		Yes
(TV)	Auto Search		No
	Power On Memory		Yes
	Comb Filter		Yes
			<u>3 -D</u>
	Game Position		Yes
	Auto Setup(Language/Ch	H Program)	Yes
	Picture Setting(TV)	- 3 /	Yes
		Mode(Picture Preference)	Yes
		Brightness , Contrast , Color	Yes
		Tint	Yes
		Sharpness	Yes
		Color Temperature	Yes
		Cable Clear	Yes
	Picture Setting(PC)		Yes
		BRIGHTNESS, CONTRAST	Yes
		HOR POSITION, VER POSITION	Yes
		PHASE, CLOCK	Yes
		AUTO ADJUST	No
		RED , GREEN , BLUE	Yes
	Audio	MTS	Yes
		Tone Control (Bass/Treble/Balance)	Yes
		Stable Sound	Yes
		Surround	Yes
		BBE	No
		SRS WOW (SRS 3D/Focus/Tru Bass)	No
		Variable Audio Out	No
	Tuning	CH Program	Yes
		TV/Cable	Yes
		ADD/DELETE	Yes
	Label	CH Label	Yes
		Video Label	Yes
	Favorite CH		Yes
	V-Chip		Yes
	V Omp	Туре	USA Type
	RRT Setup	туре	
		Hatali a ale	No No
	Lock	Hotel Lock	No
		Channel Lock	Yes
		Video Lock	Yes
		Panel Lock	Yes
			English
	OSD Language		French
	3 3		Spanish
	Closed Caption		Yes
	Closed Capilon CC Advanced		
			No
	Picture Size		Yes
	Picture Scroll		Yes
	Cinema Mode		Yes
	Aspect		Yes
	Backlight		Yes
	PFC(Power Factor circui	t)	No
	Freeze frame		No
	PIP/POP		No
	Direct Input Selection		Yes
	PC Monitor Input		Yes
	1 O Monitor Input	VGA (640x480)	Yes (60Hz)
		VGA (720x400)	Yes (70Hz)
		WVGA (848x480)	Yes (60Hz)
		SVGA (800x600)	Yes (60Hz)
		XGA (1024x768)	Yes (60Hz)
		WXGA (1280x768)	Yes (60Hz)
		WXGA (1280x720)	Yes (60Hz)
I		WXGA (1360x768)	Yes (60Hz)
			\/

1	HDMI Input		Yes
		VGA (640x480)	Yes (60Hz)
		720x480i (4:3)	Yes (60Hz)
		720x480i (16:9)	Yes (60Hz)
		720x480p (4:3)	Yes (60Hz)
		720x480p (16:9)	Yes (60Hz)
		720x576i (4:3)	No
		720x576i (16:9)	No
		720x576p (4:3)	No
		720x576p (16:9)	No
		1280x720p	Yes (60Hz)
		1920x1080i	Yes (60Hz)
	Component Input	1320x10001	Yes
	Component input	720x480i (4:3)	Yes (60Hz)
		720x480i (4.3) 720x480i (16:9)	Yes (60Hz)
		720x480p (4:3)	Yes (60Hz)
		720x480p (4:3)	Yes (60Hz)
		720x576i (4:3)	No
		720x576i (4.3) 720x576i (16:9)	No
		720x576i (16.9) 720x576p (4:3)	No
			No
		720x576p (16:9)	
		1280x720p	Yes (60Hz)
Factoria	Trovil ook	1920x1080i	Yes (60Hz)
Features	Tray Lock		Yes
(DVD)	Video CD Playback		Yes
	SVCD Playback		No
		Overlay Graphics And Text	No
		Command List	No
		Entry Point Jump	No
	MP3 Playback		Yes
	Divx Playback		Yes
		DMF Support	No
	JPEG		Yes
	WMA		Yes
	Digital Out	(Dolby Digital)	Yes
		(MPEG)	Yes
		(PCM)	Yes
		(DTS)	Yes
	Down Mix Out	(Dolby Digital)	Yes
		(DTS)	No
	Closed Caption		Yes
	Screen Saver		No
	Audio DAC		192kHz / 24bit
G-12 Accessories	Owner's Manual	Language	English / French
		w/Guarantee Card	Yes
	Remote Control Unit		Yes
	Rod Antenna		No
		Poles	
		Terminal	
	Loop Antenna		No
	•	Terminal	
	U/V Mixer		No
	DC Car Cord (Center+)		No
	Guarantee Card		No
	Warning Sheet		No
	Circuit Diagram		No
	Antenna Change Plug		No No
	Service Facility List		No
	Important Safeguard		No No
1			No No
	Dew/AHC Caution Speet		
	Dew/AHC Caution Sheet Quick Set-up Sheet		No.
	Quick Set-up Sheet		No Yes
		LIM size x ncs	Yes
	Quick Set-up Sheet	UM size x pcs OFM Brand	Yes UM-4 x 2 pcs
	Quick Set-up Sheet Battery	UM size x pcs OEM Brand	Yes UM-4 x 2 pcs No
	Quick Set-up Sheet Battery  AC Adapter	OEM Brand	Yes UM-4 x 2 pcs No No
	Quick Set-up Sheet Battery  AC Adapter AC Cord (for AC Adapter)	OEM Brand	Yes UM-4 x 2 pcs No No No
	Quick Set-up Sheet Battery  AC Adapter AC Cord (for AC Adapter) AV Cord (2Pin-1Pin)	OEM Brand	Yes UM-4 x 2 pcs No No No No
	AC Adapter AC Cord (for AC Adapter) AV Cord (2Pin-1Pin) Registration Card (NDL C	OEM Brand  Oard)	Yes UM-4 x 2 pcs No No No No No Yes
	Quick Set-up Sheet Battery  AC Adapter AC Cord (for AC Adapter) AV Cord (2Pin-1Pin) Registration Card (NDL C	OEM Brand  Card)  Day Adapter	Yes UM-4 x 2 pcs No No No No Yes
	Quick Set-up Sheet Battery  AC Adapter AC Cord (for AC Adapter) AV Cord (2Pin-1Pin) Registration Card (NDL C 300ohm to 75ohm Antenr Sheet Information (Return	OEM Brand  Card)  na Adapter  n)	Yes UM-4 x 2 pcs No No No No No Yes  Ves (USA version, Canada version)
	Quick Set-up Sheet Battery  AC Adapter AC Cord (for AC Adapter) AV Cord (2Pin-1Pin) Registration Card (NDL C	OEM Brand  Card)  na Adapter  n)	Yes UM-4 x 2 pcs No No No No Yes

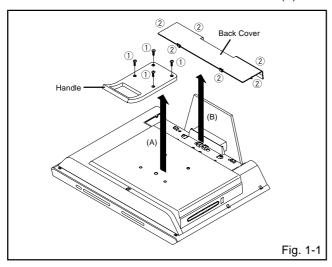
Channel DownMenu Down   Yes	10.40	11.4	0 '. 1		D (T 1)	V
Channel Down/Menu   Ves	G-13	Interface	Switch	Тор	Power (Tact)	Yes
Volume Up-Menu >						
Volume DownMenu <	1					Yes
Menu					Volume Up/Menu >	Yes
Play					Volume Down/Menu <	Yes
Play					Menu	Yes
Fiject						
Sikp-, Search-   Yes   Sikp-, Search-   Yes						
Skip. Search:   Yes   No   Skip.   Search:   Skip!   Pause   No   Skip   Yes   No   Skip   Yes   No   Skip   Yes   No   Injust Select   Yes   No   No   Injust Select   Yes   Yes (GREEN / RED)   Power   Skind-by   No   No   No   No   No   No   No   N						
Sill/Fause						
Stop					Skip-, Search-	Yes
Main Power SW					Still/Pause	No
Main Power SW					Stop	Yes
Indicator						
Indicator						
Power   No   Stand-by   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On Timer   No   No   On   On   On   On   On   On   On   O			In all a set a se			
Stand-by			maicator		,	
No   No   No   No   No   No   No   No						
Terminals					Stand-by	No
Audio Input 1   S - Input 1   No					On Timer	No
Audio Input 1   S - Input 1   No			Terminals	Rear	Video Input 1	RCA x 1
S - Input 2					·	
Video Input 2	l				•	
Audio Input 2   RCA x 2 (LMONO, R)	l	1				
S-Input 2	l				·	
S- Input 2		1				RCA x 2(L/MONO, R)
Audio Output	l				S- Input 2	
Audio Output		1			Video Output	No
Component Input					·	
Analog Audio						
Analog Audio					, ,	
PC Monitor Input						HDMI x 1
Analog Audio						PC Monitor Audio Input Alternative
Digital Audio Output					·	
DC Jack						
VHF/UHF Antenna Input						• • • • • • • • • • • • • • • • • • • •
Other Terminal						NO
AC Outlet						F Type
AC Outlet   No   No   No   No   No   No   No   N					Other Terminal	Headphone
Audio Input 2					AC Outlet	No
Audio Input 2				Side	Video Input 2	No
PC Monitor Input(w/ Analog Audio L/R)						No
Other Terminal						
Set Size						
Weight   Net (Approx.)   S54 x 110 x 403						
Net (Approx.)   9.5kg (20.9 lbs)   Net w/o Handle, Stand (Approx.)   8.0kg (17.6 lbs)   Gross (Approx.)   11.5kg (25.3 lbs)	G-14	Set Size				554 x 220 x 448
Net w/o Handle, Stand (Approx.)   8.0kg (17.6 lbs)					w/o Handle, Stand Approx. W x D x H (mm)	554 x 110 x 403
Gross (Approx.)   11.5kg (25.3 lbs)	G-15	Weight			Net (Approx.)	9.5kg (20.9 lbs)
Gross (Approx.)   11.5kg (25.3 lbs)	l	-				
Carton						
Content	G-16	Carton		Maetor Corto	,	
Material	اقات	Carton		iviasiei Galil		
Dimensions   W x D x H(mm)	l					
Description of Origin	l	1				/
Gift Box   Material   Double/ Brown   W/Color Photo Label   No   W/Handle   No   W/Handle   Dimensions   W x D x H(mm)   654 x 338 x 565   Description of Origin   No(Assembled In Thailand)   Drop Test   2 Corner / 2 Edges / 2 Surfaces   65     Container Stuffing (40' container)   492   Sets	l					
Gift Box   Material   Double/ Brown   W/Color Photo Label   No   W/Handle   No   W/Handle   Dimensions   W x D x H(mm)   654 x 338 x 565   Description of Origin   No(Assembled In Thailand)   Drop Test   2 Corner / 2 Edges / 2 Surfaces   65     Container Stuffing (40' container)   492   Sets	l				Description of Origin	
W/Color Photo Label				Gift Box		Double/ Brown
W/Handle						
Dimensions   W x D x H(mm)   654 x 338 x 565     Description of Origin   No(Assembled In Thailand)	l					
Description of Origin	l					
Drop Test	l					
Height (cm)   65	l				Description of Origin	
Container Stuffing (40' container)	l			Drop Test		
Container Stuffing (40' container)					Height (cm)	65
G-17         Material         Cabinet         Front Rear         PS 94V0 DECABROM PS 94V0 DECABROM           PCB         Non-Halogen Demand No Eyelet Demand         No Yes           G-18         Environment         Environmental standard requirement (by buyer)         Green PROCUREMENT of TOSHIBA		1		Container St	uffing (40' container)	492 Sets
Rear         PS 94V0 DECABROM           Non-Halogen Demand         No           Eyelet Demand         Yes           G-18 Environment         Environmental standard requirement (by buyer)         Green PROCUREMENT of TOSHIBA	G-17	Material				20.0
PCB         Non-Halogen Demand         No           Eyelet Demand         Yes           G-18         Environment         Environmental standard requirement (by buyer)         Green PROCUREMENT of TOSHIBA	۳			Capillot		
Eyelet Demand Yes  G-18 Environment Environmental standard requirement (by buyer) Green PROCUREMENT of TOSHIBA	l			DOD		
G-18 Environment Environmental standard requirement (by buyer) Green PROCUREMENT of TOSHIBA	l			PCB		
DI E	G-18	Environment		Environment	al standard requirement (by buyer)	Green PROCUREMENT of TOSHIBA
Phase 3 (Phase 3A)	l	1		Pb-Free		Phase 3 (Phase 3A)
Measures for Whisker Yes	l				Measures for Whisker	* * * * * * * * * * * * * * * * * * * *

### DISASSEMBLY INSTRUCTIONS

# 1. REMOVAL OF MECHANICAL PARTS AND P.C. BOARDS

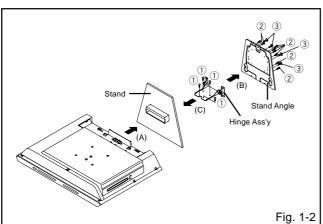
### 1-1: HANDLE/BACK COVER (Refer to Fig. 1-1)

- 1. Remove the 4 screws 1.
- 2. Remove the Handle in the direction of arrow (A).
- 3. Unlock the 6 supports 2.
- 4. Remove the Back Cover in the direction of arrow (B).



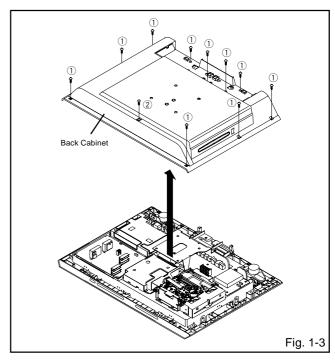
### 1-2: HINGE ASS'Y (Refer to Fig. 1-2)

- 1. Remove the 4 screws 1.
- 2. Remove the Stand in the direction of arrow (A).
- 3. Remove the 8 screws 2.
- 4. Remove the Stand Angle in the direction of arrow (B).
- 5. Remove the 4 screws 3.
- 6. Remove the Hinge Ass'y in the direction of arrow (C).



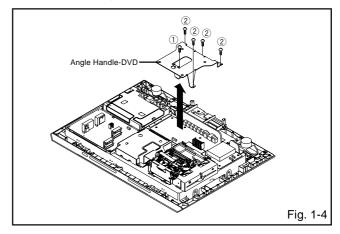
### 1-3: BACK CABINET (Refer to Fig. 1-3)

- 1. Remove the 10 screws ①.
- 2. Remove the screw 2.
- 3. Remove the Back Cabinet in the direction of arrow.



### 1-4: ANGLE HANDLE-DVD (Refer to Fig. 1-4)

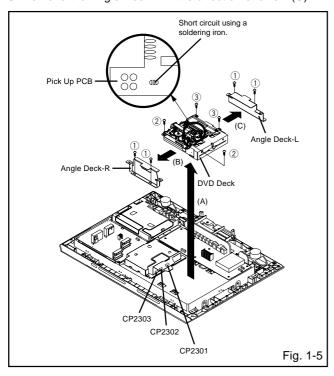
- 1. Remove the screw ①.
- 2. Remove the 4 screws 2.
- 3. Remove the Angle Handle-DVD in the direction of arrow.



### **DISASSEMBLY INSTRUCTIONS**

### 1-5: DVD DECK (Refer to Fig. 1-5)

- Short circuit the position shown in Fig. 1-5 using a soldering iron. If you remove the DVD Deck with no soldering, the Laser may be damaged.
- 2. Disconnect the following connectors: (CP2301, CP2302 and CP2303).
- 3. Remove the 4 screws (1).
- 4. Remove the DVD Deck in the direction of arrow (A).
- 5. Remove the 2 screws 2.
- 6. Remove the Angle Deck-R in the direction of arrow (B).
- 7. Remove the 2 screws 3.
- 8. Remove the Angle Deck-L in the direction of arrow (C).

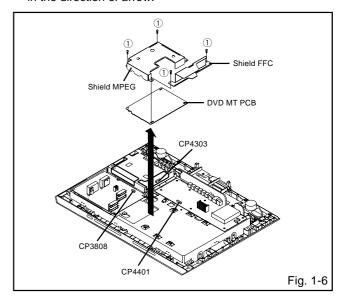


### NOTE

- Before your operation, please read "PREPARATION OF SERVICING".
- 2. Use the Lead Free solder.
- 3. Manual soldering conditions
  - Soldering temperature: 350 ± 5°C
  - Soldering time: Within 2 seconds
  - Soldering combination: Sn-3.0Ag-0.5Cu
- When Soldering/Removing of solder, use the drawing equipment over the Pick Up Unit to keep the Flux smoke away from it.
- When installing the DVD Deck, remove all the soldering on the short circuit position after the connection of Pick Up PCB and DVD PCB connector.

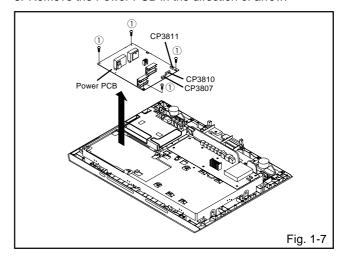
### 1-6: DVD MT PCB (Refer to Fig. 1-6)

- 1. Disconnect the following connectors: (CP3808, CP4401 and CP4303).
- 2. Remove the 4 screws 1.
- Remove the Shield FFC, Shield MPEG and DVD MT PCB in the direction of arrow.



### 1-7: POWER PCB (Refer to Fig. 1-7)

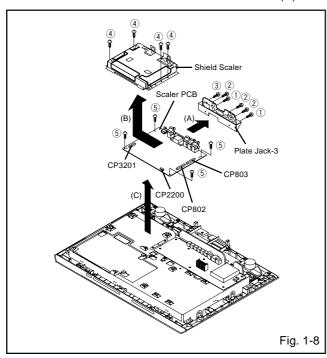
- 1. Disconnect the following connectors: (CP3807, CP3810 and CP3811).
- 2. Remove the 4 screws (1).
- 3. Remove the Power PCB in the direction of arrow.



### DISASSEMBLY INSTRUCTIONS

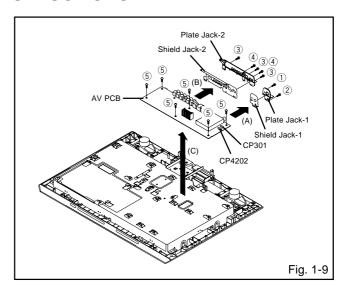
### 1-8: SCALER PCB (Refer to Fig. 1-8)

- 1. Disconnect the following connectors: (CP802, CP803, CP2200, and CP3201).
- 2. Remove the 2 screws 1).
- 3. Remove the 3 screws 2.
- 4. Remove the screw 3.
- 5. Remove the Plate Jack-3 in the direction of arrow (A).
- 6. Remove the 4 screws (4).
- 7. Remove the Shield Scaler in the direction of arrow (B).
- 8. Remove the 4 screws (5).
- 9. Remove the Scaler PCB in the direction of arrow (C).



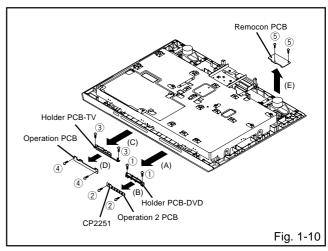
### 1-9: AV PCB (Refer to Fig. 1-9)

- 1. Disconnect the following connectors: (CP301, and CP4202).
- 2. Remove the screw ①.
- 3. Remove the screw 2.
- 4. Remove the Plate Jack-1 and Shield Jack-1 in the direction of arrow (A).
- 5. Remove the 3 screws 3.
- 6. Remove the 2 screws 4.
- 7. Remove the Plate Jack-2 and Shield Jack-2 in the direction of arrow (B).
- 8. Remove the 6 screws ⑤.
- 9. Remove the AV PCB in the direction of arrow (C).



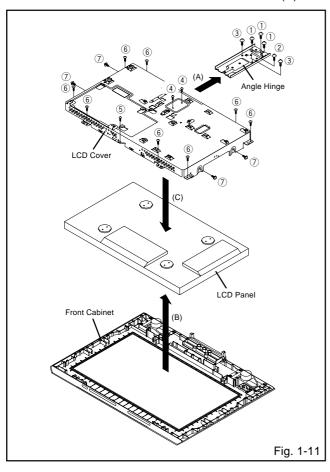
### 1-10: OPERATION PCB/OPERATION 2 PCB/ REMOCON PCB (Refer to Fig. 1-10)

- 1. Disconnect the following connector: (CP2251).
- 2. Remove the 2 screws 1.
- 3. Remove the Holder PCB-DVD in the direction of arrow (A).
- 4. Remove the 2 screws 2.
- 5. Remove the Operation 2 PCB in the direction of arrow (B).
- 6. Remove the 2 screws 3.
- 7. Remove the Holder PCB-TV in the direction of arrow (C).
- 8. Remove the 2 screws 4.
- 9. Remove the Operation PCB in the direction of arrow (D).
- 10. Remove the 2 screws ⑤.
- 11. Remove the Remocon PCB in the direction of arrow (E).



# 1-11: LCD COVER/LCD PANEL (Refer to Fig. 1-11)

- 1. Remove the 3 screws ①.
- 2. Remove the screw 2.
- 3. Remove the 2 screws 3.
- 4. Remove the 2 screws 4.
- 5. Remove the Angle Hinge in the direction of arrow (A).
- 6. Remove the screw 5.
- 7. Remove the 8 screws 6.
- 8. Remove the LCD Cover in the direction of arrow (B).
- 9. Remove the 4 screws 7.
- 10. Remove the LCD Panel in the direction of arrow (C).



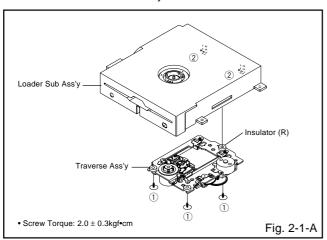
## 2. REMOVAL OF DVD DECK PARTS

#### **NOTE**

 Disassemble only the DVD DECK PARTS parts listed here. Minute adjustments are needed if the disassembly is done. If the repair is needed except listed parts, replace the DVD MECHA ASS'Y.

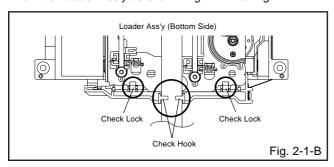
## 2-1: TRAVERSE ASS'Y (Refer to Fig. 2-1-A)

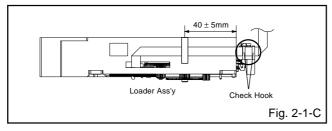
- 1. Remove the 3 screws 1.
- 2. Unlock the 2 supports 2.
- 3. Remove the Insulator (R) from the Loader Sub Ass'y.
- 4. Remove the Traverse Ass'y.

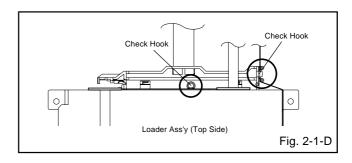


## **NOTE**

1. In case of the Traverse Ass'y installation, hook the wire on the Loader Ass'y as shown Fig. 2-2-B to Fig. 2-2-D.

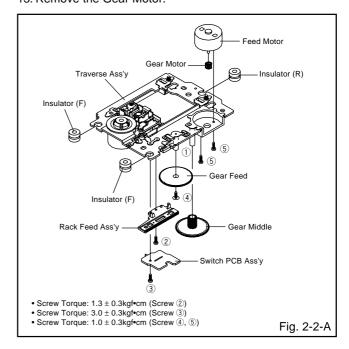






# 2-2: SWITCH PCB ASS'Y/GEAR MIDDLE/GEAR FEED/RACK FEED ASS'Y/FEED MOTOR (Refer to Fig. 2-2-A)

- 1. Remove the Insulator (F).
- 2. Remove the Insulator (R).
- 3. Unlock the support ①.
- 4. Remove the Gear Middle.
- 5. Remove the screw 2.
- 6. Remove the Rack Feed Ass'y.
- 7. Remove the screw 3.
- 8. Remove the Switch PCB Ass'y.
- 9. Remove the screw 4).
- 10. Remove the Gear Feed.
- 11. Remove the 2 screws (5).
- 12. Remove the Feed Motor.
- 13. Remove the Gear Motor.

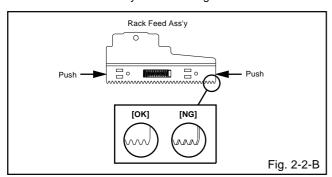


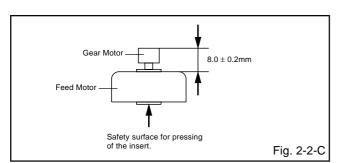
## NOTE

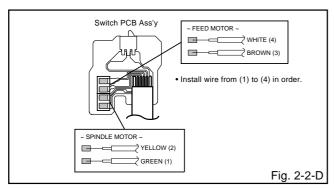
- 1. When installing the Rack Feed Ass'y, push both ends to align the teeth as shown Fig. 2-2-B. Then install it.
- 2. In case of the Gear Motor installation, check if the value of the Fig. 2-2-C is correct.
- 3. When installing the wire of the Switch PCB Ass'y, install it correctly as Fig. 2-2-D.

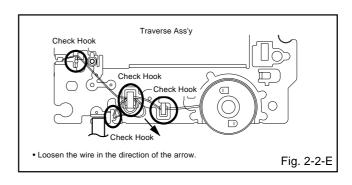
Manual soldering conditions

- Soldering temperature: 350 ± 5°C
- Soldering time: Within 4 seconds
- Soldering combination: Sn-3.0Ag-0.5Cu
- 4. After the assembly of the Traverse Ass'y, hook the wire on the Traverse Ass'y as shown Fig. 2-2-E.







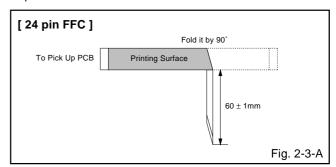


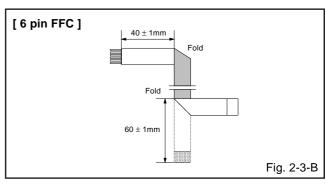
## 2-3: FFC WIRE HANDLING

1. When installing the FFC, fold it correctly and install it as shown from Fig. 2-3-A to Fig. 2-3-B.

## **NOTE**

1. Do not make the folding lines except the specified positions for the FFC.





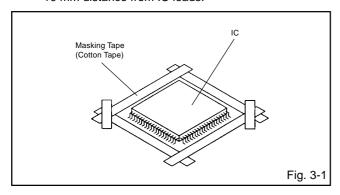
# 3. REMOVAL AND INSTALLATION OF FLAT PACKAGE IC

## **REMOVAL**

 Put the Masking Tape (cotton tape) around the Flat Package IC to protect other parts from any damage. (Refer to Fig. 3-1.)

## NOTE

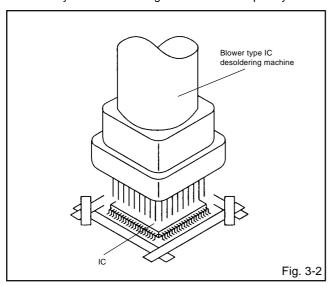
Masking is carried out on all the parts located within 10 mm distance from IC leads.



2. Heat the IC leads using a blower type IC desoldering machine. (Refer to Fig. 3-2.)

# NOTE

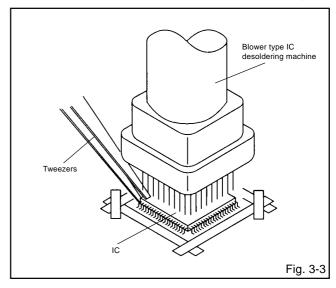
Do not add the rotating and the back and forth directions force on the IC, until IC can move back and forth easily after desoldering the IC leads completely.



 When IC starts moving back and forth easily after desoldering completely, pickup the corner of the IC using a tweezers and remove the IC by moving with the IC desoldering machine. (Refer to Fig. 3-3.)

#### NOTE

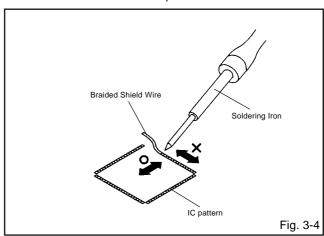
Some ICs on the PCB are affixed with glue, so be careful not to break or damage the foil of each IC leads or solder lands under the IC when removing it.



- 4. Peel off the Masking Tape.
- 5. Absorb the solder left on the pattern using the Braided Shield Wire. (Refer to Fig. 3-4.)

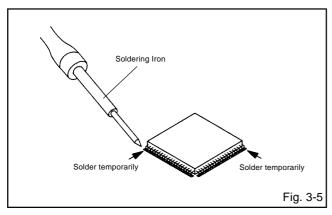
## NOTE

Do not move the Braided Shield Wire in the vertical direction towards the IC pattern.

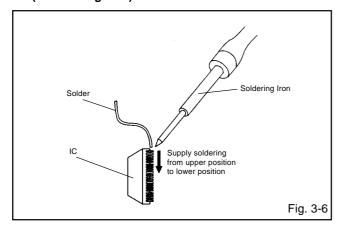


## **INSTALLATION**

 Take care of the polarity of new IC and then install the new IC fitting on the printed circuit pattern. Then solder each lead on the diagonal positions of IC temporarily. (Refer to Fig. 3-5.)



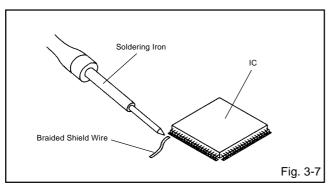
 Supply the solder from the upper position of IC leads sliding to the lower position of the IC leads. (Refer to Fig. 3-6.)



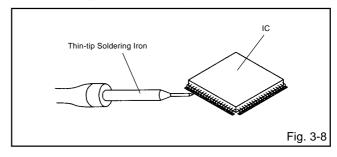
3. Absorb the solder left on the lead using the Braided Shield Wire. (Refer to Fig. 3-7.)

## NOTE

Do not absorb the solder to excess.



4. When bridge-soldering between terminals and/or the soldering amount are not enough, resolder using a Thintip Soldering Iron. (Refer to Fig. 3-8.)



5. Finally, confirm the soldering status on four sides of the IC using a magnifying glass.

Confirm that no abnormality is found on the soldering position and installation position of the parts around the IC. If some abnormality is found, correct by resoldering.

#### NOTE

When the IC leads are bent during soldering and/or repairing, do not repair the bending of leads. If the bending of leads are repaired, the pattern may be damaged. So, be always sure to replace the IC in this case.

# **SERVICE MODE LIST**

This unit provided with the following SERVICE MODES so you can repair, examine and adjust easily.

To enter to the SERVICE MODE function, press and hold both buttons simultaneously on the main unit and on the remote control for more than a the standard time in the appropriate condition. (See below chart.)

Set Condition	Set Key	Remocon Key	Standard Time	Operations
TV mode	VOL. DOWN (Minimum)	0	2 sec.	Releasing of V-CHIP PASSWORD.
TV mode	VOL. DOWN (Minimum)	1	2 sec.	Initialization of factory TV data.  NOTE: If you set factory initialization, the memories are reset such as the channel setting, and the POWER ON total hours.
DVD mode (No disc)	VOL. DOWN (Minimum)	4	2 sec.	Initialization of factory DVD data.
DVD mode (No disc)	VOL. DOWN (Minimum)	5	2 sec.	DVD Write mode. Refer to the "RE-WRITE FOR DVD FIRMWARE".
TV mode	VOL. DOWN (Minimum)	6	2 sec.	POWER ON total hours are displayed on the screen. Can be checked of the INITIAL DATA of MEMORY IC. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
TV mode	VOL. DOWN (Minimum)	8	2 sec.	Check of the SUM DATA and MICON VERSION on the screen. Refer to the "WHEN REPLACING EEPROM (MEMORY) IC".
ALL mode	VOL. DOWN (Minimum)	9	2 sec.	Display of the Adjustment MENU on the screen. Refer to the "ELECTRICAL ADJUSTMENT" (On-Screen Display Adjustment).
DVD mode (No disc)	STOP	1	2 sec.	Region setting. Refer to the "RE-WRITE FOR DVD FIRMWARE".
DVD mode (No disc)	STOP	7	2 sec.	Releasing of PARENTAL LOCK. Refer to the "PARENTAL CONTROL - RATING LEVEL".

Method	
Press the following remocon keys continuously. SETUP $\rightarrow$ SUBTITLE $\rightarrow$ 3 $\rightarrow$ AUDIO $\rightarrow$ 0	The disk cannot be taken out. Refer to the "TRAY LOCK".

# **SERVICING FIXTURES AND TOOLS**

JG176 Up-Date Disc



Ref. No.	Part No.	Parts Name	Remarks
JG176	APJG176099	Up-Date Disc	Up-Date of the Firmware

# **RE-WRITE FOR DVD FIRMWARE**

- 1. Turn on the power, and set the DVD mode.
- 2. Confirm that the "No Disc" will be appeared on the screen.
- 3. Press both VOL. DOWN button on the set and Channel button (5) on the remote control for more than 2 seconds.
- 4. Press VOL. UP/DOWN button on the unit to check if all the keys on the unit do not function.

NOTE: To check if DVD Write mode is set.

When inserting Up-Date Disc at Non DVD Write mode, the read error will happen.

- 5. Insert the Up-Date Disc. (Refer to SERVICING FIXTURE AND TOOLS)
- 6. Automatic read will start and "Firmware upgrade Please Wait" will be displayed on the screen. At this time, the horizontal noise lines may appear. But no problem.

NOTE: Do not turn off the unit on the way or operate the keys on the unit and remocon.

Up-Date error will happen and can not be done with the Up-Date of Up-Date Disc.

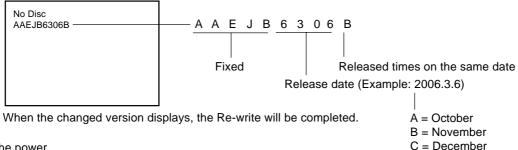
- 7. After the Up-Date, Logo screen will appear.
- 8. Unplug the AC cord, then plug it in.

# After the write, set to the initializing of shipping.

- 9. Turn on the power, and set the DVD mode.
- 10. Press both VOL. DOWN button on the set and Channel button (4) on the remote control for more than 2 seconds. The "INITIALIZE 5 ---> COMPLETE" will appear on the screen.
- 11. Then unplug the AC cord, and plug it in.

## **CHECK FOR THE FIRMWARE VERSION**

- 12. Turn on the power, and set the DVD mode.
- 13. Press both Channel button (1) on the remote control and the STOP button on the set for more than 2 seconds. Firmware version will be displayed on the top left of the screen.



14. Turn off the power

# WHEN REPLACING EEPROM (MEMORY) IC

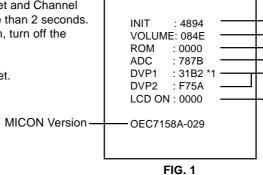
# CONFIRMATION OF CHECK SUM, POWER ON TOTAL HOURS AND MICON VERSION

Initial total of MEMORY IC, POWER ON total hours and MICON VERSIONcan be checked on the screen. Total hours are displayed in 16 system of notation.

NOTE: If you set a factory initialization, the total hours is reset to "0".

Please refer to "CONFIRMATION OF INITIAL DATA" when SUM DATA is not corresponding.

- 1. Turn on the POWER, and set to the TV mode.
- 2. Set the VOLUME to minimum.
- 3. Press both VOL. DOWN button on the set and Channel button (8) on the remote control for more than 2 seconds.
- 4. After the confirmation of each check sum, turn off the power.
  - \*1 DVP1 is different according to each set.



Initial setting data check sum. VOLUME CURVE data check sum. Rom correction data check sum.

AD CONVERTER data check sum. SCALER data check sum.

POWER ON total hours.

- = (16 x 16 x 16 x thousands digit value)
- + (16 x 16 x hundreds digit value)
- + (16 x tens digit value)
- + (ones digit value)

## CONFIRMATION OF INITIAL DATA

If a service repair is undertaken where it has been required to change the MEMORY IC, the following steps should be taken to ensure correct data settings while making reference to INITIAL SETTING TABLE (Attached "INITIAL DATA").

- 1. Turn on the POWER, and set to the TV mode.
- 2. Set the VOLUME to minimum.
- 3. Press both VOL. DOWN button on the set and Channel button (6) on the remote control for more than 2 seconds. ADDRESS and DATA should appear as FIG 1.

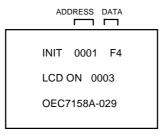


FIG. 1

- 4. ADDRESS is now selected and should "blink". Using the UP/DOWN button on the remote, step through the ADDRESS until Press RIGHT/LEFT button to select DATA. When DATA is selected, it will "blink".
- 5. Again, step through the DATA using UP/DOWN button until required DATA value has been selected.
- 6. Pressing RIGHT/LEFT button will take you back to ADDRESS for further selection if necessary.
- 7. Repeat steps 4 to 6 until all data has been checked.
- 8. When satisfied correct DATA has been entered, turn POWER off (return to STANDBY MODE) to finish DATA input.

# After the data input, set to the initializing of shipping.

- 9. Turn POWER on.
- 10. Press both VOL, DOWN button on the set and Channel button (1) on the remote control for more than 2 seconds.
- 11. After the finishing of the initializing of shipping, the unit will turn off automatically.

The unit will now have the correct DATA for the new MEMORY IC.

**INITIAL SETTING TABLE (20HLV86)** 

INITIAL	. SEI	HING	<u>IA</u>	RLF	(20F	ILV8	6)									
Address	0	1	2	3	4	5	6	7	8	9	Α	В	С	D	Е	F
0000	00	F4	14	BD	B0	7C	00	C1	94	FF	0A	00	90	95	60	F1
0010	55	00	05	80	AA	0D	17	19	10	00	55	21	02	40	4F	C8
0020	00	E0	1C	20	1E	74	4D	03	0B	30	05	04	20	10	10	20
0030	18	3C	4F	20	10	00	20	18	10	30	3B	3C	40	00	00	2C
0040	00	00	75	20	F0	E8	20	18	01	00	00	15	10	00	10	0D
0050	05	60	00	00	00	00	00	00	10	30	3B	03	00	00	00	00
0060	00	00	00	00	00	00	00	00	00	00	00	00	00	00	01	04
0070	08	0A	0B	0C	0D	0E	0F	10	11	11	12	12	13	13	14	14
0080	15	15	16	16	17	17	18	18	19	19	1A	1A	1B	1B	1C	1C
0090	1D	1D	1E	1E	1F	1F	20	20	21	21	22	22	23	23	24	24
00A0	39	39	39	39	39	39	39	39	39	39	39	39	39	39	19	18
00B0	18	18	18	18	18	18	0A	20	20	20	20	20	20	20	20	00
00C0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
00D0	00	00	00	00	00	00	0B	0E	00	42	82	01	73	21	11	23
00E0	0A	40	00	00	9D	63	2F	93	80	80	80	80	78	00	00	00
00F0	00	00	00	00	00	4C	00	00	00	00	00	00	00	00	32	00
0100	03	40	FA	03	74	75	01	A0	7D	01	ВА	3A	01	23	8B	01
0110	35	8E	01	84	B9	01	9C	C0	00	06	30	00	07	5F	01	98
0120	2A	01	C3	21	01	98	2A	01	C3	21	01	53	3E	01	76	F3
0130	01	09	A5	01	25	9C	01	0C	FB	01	29	4B	01	1E	FE	01
0140	3D	34	06	AC	40	07	15	D4	05	A4	C8	06	26	2A	05	10
0150	00	72	99	59	68	99	59	59	99	59	00	00	00	00	00	00
0160	00	00	00	00	00	00	33	37	3A	40	42	44	46	48	4A	4C
0170	4E	50	52	54	56	58	5A	5C	5F	61	64	66	67	68	69	6A
0180	6B	6C	6D	6D	6E	6F	70	71	71	72	72	73	73	74	74	75
0190	76	77	78	79	7A	7B	7C	7D	75	76	76	76	77	77	77	78
01A0	78	78	78	79	79	79	01	0D	8B	01	29	EB	00	00	00	00
01B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	28
01C0	10	92	FF	FF	10	30	B0	D0	F0	7B	30	57	7A	20	82	D9
01D0	4D	8C	28	70	20	60	10	36	20	A0	00	17	0D	00	88	0F
01E0	84	10	C0	E0	12	19	00	F0	0F	00	3F	3F	00	00	00	00
01F0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
0200	6B	30	18	F0	07	14	44	80	80	80	80	80	80	6F	66	B5
0210	30	0B	0F	02	00	00	00	00	01	00	00	00	00	00	00	00
0220	35	90	18	70	07	14	35	80	80	80	80	80	80	6F	66	B5
0900	31	F0	28	1F	08	08	20	80	80	80	7F	7F	7F	F2	6E	80
0910	20	04	04	02	00	00	00	01	00	00	00	00	00	00	00	00

09F0	20	04	0F	02	00	00	00	01	00	00	00	00	00	00	00	00
0A00	6B	30	18	F0	07	14	44	D0	D0	D0	7F	7F	7F	6F	66	B5
2000	60	00	88	80	2C	00	2C	00	89	80	88	00	50	00	00	00
2010	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2020	60	00	88	80	2C	00	2C	00	89	80	88	00	50	00	00	00
2030	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2040	60	00	88	80	2C	00	2C	00	88	80	33	00	50	01	00	00
2050	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2060	60	00	88	80	2C	00	2C	00	88	80	77	00	50	06	00	00
2070	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2080	60	00	88	80	2C	00	2C	00	88	80	88	00	50	00	00	00
2090	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
20A0	60	00	88	80	2C	00	2C	00	88	80	88	00	50	00	00	00
20B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
20C0	18	71	38	05	00	6E	9C	02	00	00	00	00	00	00	00	00
20D0	18	71	38	05	00	6E	9C	02	00	00	00	00	00	00	00	00
20E0	18	71	38	05	00	6E	9C	02	00	00	00	00	00	00	00	00
20F0	18	71	38	05	00	6E	9C	02	00	00	00	00	00	00	00	00
2100	00	00	78	05	00	6E	9E	02	00	00	00	00	00	00	00	00
2110	EC	54	5C	05	20	6E	ΑE	02	00	00	00	00	00	00	00	00
2120	EC	54	5C	05	20	6E	ΑE	02	00	00	00	00	00	00	00	00
2130	EC	90	5C	05	20	6E	ΑE	02	00	00	00	00	00	00	00	00
2140	EC	70	5C	05	20	6E	ΑE	02	00	00	00	00	00	00	00	00
2150	EC	AC	5C	05	20	6E	ΑE	02	00	00	00	00	00	00	00	00
2160	38	05	19	00	18	01	00	98	0C	05	00	A0	9C	02	CF	0B
2170	58	05	19	00	26	02	00	98	0C	05	00	A0	9C	02	CF	0B
2180	38	05	1A	00	18	01	00	98	0C	05	00	A0	9C	02	CF	0B
2190	58	05	19	00	26	02	00	98	0C	05	00	A0	9C	02	CF	0B
21A0	78	05	37	00	20	01	00	98	0C	05	00	A0	9E	02	CF	0B
21B0	38	05	38	00	26	02	00	98	0C	05	00	A0	9C	02	CF	0B
21C0	9C	02	38	00	26	02	00	98	0C	05	00	A0	9C	02	CF	0B
21D0	38	05	38	00	26	02	00	98	0C	05	00	A0	9C	02	CF	0B
21E0	9C	02	38	00	26	02	00	98	0C	05	00	A0	9C	02	CF	0B
21F0	9C	02	7C	00	9C	01	00	98	0C	05	00	A0	9C	02	CF	0B
2200	C4	04	26	00	B0	02	00	98	0C	05	00	A0	C4	04	CF	0B
2210	22	07	20	00	80	02	00	98	0C	05	ВС	F2	22	07	CF	0B
2220	22	07	20	00	08	02	00	98	0C	05	ВС	F2	22	07	CF	0B
2230	68	05	15	00	EC	00	00	98	0C	05	00	A0	B8	02	CF	0B
2240	68	05	15	00	EC	00	00	98	0C	05	00	A0	AC	02	CF	0B

2320	D2	02	14	00	F4	01	00	98	0C	05	00	F0	D0	02	4F	0A
2330	D2	02	14	00	F4	01	00	98	00	05	00	F0	D0	02	4F	0A
2340	52	03	14	00	EΑ	01	00	98	0C	05	00	F0	D0	02	4F	0A
2350	52	03	1B	00	E2	01	00	98	0C	05	00	A0	02	04	CF	0B
2360	22	03	14	00	62	02	00	98	0C	05	00	F0	D0	02	4F	0A
2370	22	03	14	00	62	02	00	98	0C	05	00	F0	D0	02	4F	0A
2380	00	04	1C	00	0A	03	00	90	0C	05	00	A0	02	04	CF	0B
2390	00	04	1C	00	0A	03	00	90	0C	05	00	A0	02	04	CF	0B
23A0	02	05	12	00	DA	02	00	90	0C	05	00	A0	02	04	CF	0B
23B0	02	05	14	00	0A	03	00	90	0C	05	00	A0	02	04	CF	0B
23C0	52	05	14	00	0A	03	00	98	0C	05	00	A0	02	04	CF	0B
23D0	81	02	21	00	E4	01	00	90	0C	05	00	A0	02	04	CF	0B
23E0	96	0F	CA	В3	92	24	C0	C2	24	0B	5C	A8	22	36	00	30
23F0	A0	1B	3C	Α0	3C	3C	32	58	E9	00	00	54	00	00	26	00
2400	F8	80	5A	CA	1E	68	00	80	10	42	02	44	0C	40	0C	10
2410	80	9C	00	00	A1	38	50	A8	02	00	00	00	EE	04	00	00
2420	03	00	DD	04	60	00	10	24	7D	28	1F	70	00	00	00	00
2430	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2440	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2450	96	0F	CA	В3	92	24	C0	C2	24	0B	5C	A8	22	36	00	30
2460	A0	1B	3C	A0	3C	3C	32	58	E9	00	00	54	00	00	46	00
2470	F8	80	5A	CA	1E	68	00	80	10	42	02	44	00	40	0C	10
2480	08	6C	00	00	A1	38	50	A8	02	00	00	00	EE	04	00	00
2490	03	00	DD	04	60	00	10	24	7D	28	1F	70	00	00	00	00
24A0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
24B0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
24C0	96	0F	C8	B3	92	24	B4	C2	18	0B	50	A8	19	36	00	30
24D0	A0	1B	A0	A0	A0	A0	6E	2B	EC	00	00	54	00	00	C6	01
24E0	EC	80	5A	CA	1E	68	00	80	10	82	04	84	18	40	18	10
24F0	08	2C	00	00	29	39	50	A8	0A	00	00	00	EE	06	00	00
2500	00	00	D9	80	24	00	10	04	7D	18	1F	70	00	00	00	00
2510	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2520	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2530	96	0F	C8	В3	92	24	C0	C2	24	0B	5C	A8	22	36	00	30
2540	A0	1B	3C	A0	3C	3C	32	58	E9	00	00	54	00	00	06	00
2550	F8	80	5A	CA	1E	68	00	80	10	42	02	44	0C	40	0C	10
2560	80	6C	00	00	A1	38	50	A8	02	00	00	00	EE	04	00	00
2570	03	00	DD	04	60	00	10	24	7D	28	1F	70	00	00	00	00
2580	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00

2660	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2670	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2680	96	0F	CA	В3	92	24	C0	C2	24	0B	5C	8A	22	36	00	30
2690	A0	1B	3C	A0	3C	3C	32	58	E9	00	00	54	00	00	06	00
26A0	F8	08	5A	CA	1E	68	00	C0	10	42	02	44	0C	40	0C	10
26B0	08	6C	00	00	A1	38	50	A8	02	00	00	00	EE	04	00	00
26C0	03	00	D1	04	60	00	10	24	7D	28	1F	70	00	00	00	00
26D0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
26E0	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
26F0	96	0F	CA	В3	92	24	C0	C2	24	0B	5C	8A	22	36	00	30
2700	A0	1B	3C	A0	3C	3C	32	58	E9	00	00	54	00	00	06	00
2710	F8	80	5A	CA	1E	68	00	CO	10	42	02	44	00	40	00	10
2720	80	6C	00	00	A1	38	50	A8	02	00	00	00	EE	04	00	00
2730	03	00	D1	04	60	00	10	24	7D	28	1F	70	00	00	00	00
2740	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2750	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
2760	96	0F	C8	В3	92	24	B4	C2	18	0B	50	8A	19	36	00	30
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7F60	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
7F70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
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8000	44	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
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8070	01	01	60	60	93	53	00	00	00	00	00	00	00	00	00	00
8080	3E	74	AE	3E	74	ΑE	3E	74	AE	3E	74	AE	3E	74	AE	3E

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8180	00	10	9C	02	00	00	00	00	00	10	26	02	26	02	9C	02
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81A0	26	02	6A	00	29	00	9C	02	26	02	00	00	1E	00	FF	FF
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81C0	03	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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81E0	80	00	00	04	6C	FF	8D	07	5E	08	30	09	01	0A	D3	0A
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8220	39	CE	00	00	28	FF	56	05	FF	FF	FF	FF	FF	FF	FF	FF
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8240	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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82F0	00	00	00	00	00	00	00	00	00	00	50	28	00	00	73	01
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84A0	00	00	00	00	00	00	00	00	00	00	50	28	00	00	71	01
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8570	D2	D2	7E	80	7E	80	00	00	40	A0	80	20	00	00	00	00
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8590	00	00	00	00	00	00	00	00	00	00	50	28	00	00	71	01
85A0	D2	D2	80	80	80	80	00	00	40	A0	80	20	00	00	00	00
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8660	D2	D2	80	80	80	80	00	00	40	A0	80	20	00	00	00	00
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86F0	D2	D2	80	80	80	80	00	00	40	A0	80	20	00	00	00	00
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8920	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
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8B60	44	00	56	05	00	03	6E	06	26	03	05	00	00	10	09	00
8B70	0A	C0	40	00	00	00	10	04	00	10	82	00	56	05	9B	B2
8B80	39	C7	EΑ	00	40	00	56	05	14	00	14	00	A4	01	76	02
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8E80	00	00	E4	00	01	00	C8	02	C7	02	ΑE	00	E6	00	00	02
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8EB0	CA	3E	ΑE	00	00	00	00	00	00	10	E6	00	E6	00	AC	00
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8EF0	CA	3E	ΑE	00	00	00	00	00	00	10	E6	00	E6	00	AC	00
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9010	40	44	48	4C	50	54	58	5C	60	64	68	6C	70	74	78	7C
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9070	C1	C5	C9	CD	D1	D5	D9	DD	E1	E5	E9	ED	F1	F5	F9	FD
9080	01	05	09	0D	11	15	19	1D	21	25	29	2D	31	35	39	3D
9090	41	45	49	4D	51	55	59	5D	61	65	69	6D	71	75	79	7D
90A0	81	85	89	8D	91	95	99	9D	A1	A5	AA	AE	B2	B6	ВА	BE
90B0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EΑ	EE	F2	F6	FA	FE
90C0	02	06	0A	0E	12	16	1A	1E	22	26	2A	2E	32	36	3A	3E

91A0	81	85	89	8D	91	95	99	9D	A1	A5	AA	ΑE	B2	В6	ВА	BE
91B0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EΑ	EE	F2	F6	FA	FE
91C0	02	06	0A	0E	12	16	1A	1E	22	26	2A	2E	32	36	3A	3E
91D0	42	46	4A	4E	52	56	5A	5E	62	66	6A	6E	72	76	7A	7E
91E0	82	86	8A	8E	92	96	9A	9E	A2	A6	AA	ΑE	B2	В6	ВА	BE
91F0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EΑ	EE	F2	F6	FA	FF
9200	00	04	08	0C	10	14	18	1C	20	24	28	2C	30	34	38	3C
9210	40	44	48	4C	50	54	58	5C	60	64	68	6C	70	74	78	7C
9220	80	84	88	8C	90	94	98	9C	A0	A4	A8	AC	B0	B4	B8	ВС
9230	C0	C4	C8	CC	D0	D4	D8	DC	E0	E4	E8	EC	F0	F4	F8	FC
9240	00	04	08	0C	10	14	18	1C	20	24	28	2C	30	34	38	3C
9250	40	44	48	4C	50	55	59	5D	61	65	69	6D	71	75	79	7D
9260	81	85	89	8D	91	95	99	9D	A1	A5	A9	AD	B1	B5	B9	BD
9270	C1	C5	C9	CD	D1	D5	D9	DD	E1	E5	E9	ED	F1	F5	F9	FD
9280	01	05	09	0D	11	15	19	1D	21	25	29	2D	31	35	39	3D
9290	41	45	49	4D	51	55	59	5D	61	65	69	6D	71	75	79	7D
92A0	81	85	89	8D	91	95	99	9D	A1	A5	AA	ΑE	B2	B6	ВА	BE
92B0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EΑ	EE	F2	F6	FA	FE
92C0	02	06	0A	0E	12	16	1A	1E	22	26	2A	2E	32	36	3A	3E
92D0	42	46	4A	4E	52	56	5A	5E	62	66	6A	6E	72	76	7A	7E
92E0	82	86	8A	8E	92	96	9A	9E	A2	A6	AA	ΑE	B2	B6	ВА	BE
92F0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EA	EE	F2	F6	FA	FF
9300	3C	05	2A	00	FE	01	00	98	0C	05	00	A0	C2	02	CF	0B
9310	E0	73	77	1B	FF	3F	00	10	3C	05	2A	00	FE	01	00	98
9320	0C	05	00	A0	AC	02	CF	0B	E0	73	77	1B	FF	3F	00	10
9330	3C	05	49	00	D0	01	00	98	0C	05	00	A0	C2	02	CF	0B
9340	E0	73	77	1B	FF	3F	00	10	3C	05	37	00	FE	01	00	98
9350	0C	05	00	A0	C2	02	CF	0B	E0	73	77	1B	FF	3F	00	10
9360	3C	05	64	00	D0	01	00	98	0C	05	00	A0	C2	02	CF	0B
9370	E0	73	77	1B	FF	3F	00	10	E1	E5	E9	ED	F1	F5	F9	FD
9380	01	05	09	0D	11	15	19	1D	21	25	29	2D	31	35	39	3D
9390	41	45	49	4D	51	55	59	5D	61	65	69	6D	71	75	79	7D
93A0	81	85	89	8D	91	95	99	9D	A1	A5	AA	AE	B2	B6	ВА	BE
93B0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EA	EE	F2	F6	FA	FE
93C0	02	06	0A	0E	12	16	1A	1E	22	26	2A	2E	32	36	3A	3E
93D0	42	46	4A	4E	52	56	5A	5E	62	66	6A	6E	72	76	7A	7E
93E0	82	86	8A	8E	92	96	9A	9E	A2	A6	AA	AE	B2	B6	ВА	BE
93F0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EA	EE	F2	F6	FA	FF
9400	00	04	80	0C	10	14	18	1C	20	24	28	2C	30	34	38	3C

94E0	82	86	8A	8E	92	96	9A	9E	A2	A6	AA	AE	B2	В6	ВА	BE
94F0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EA	EE	F2	F6	FA	FF
9500	00	04	08	0C	10	14	18	1C	20	24	28	2C	30	34	38	3C
9510	40	44	48	4C	50	54	58	5C	60	64	68	6C	70	74	78	7C
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9530	C0	C4	C8	CC	D0	D4	D8	DC	E0	E4	E8	EC	F0	F4	F8	FC
9540	00	04	08	0C	10	14	18	1C	20	24	28	2C	30	34	38	3C
9550	40	44	48	4C	50	55	59	5D	61	65	69	6D	71	75	79	7D
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9570	C1	C5	C9	CD	D1	D5	D9	DD	E1	E5	E9	ED	F1	F5	F9	FD
9580	01	05	09	0D	11	15	19	1D	21	25	29	2D	31	35	39	3D
9590	41	45	49	4D	51	55	59	5D	61	65	69	6D	71	75	79	7D
95A0	81	85	89	8D	91	95	99	9D	A1	A5	AA	ΑE	B2	В6	ВА	BE
95B0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EΑ	EE	F2	F6	FA	FE
95C0	02	06	0A	0E	12	16	1A	1E	22	26	2A	2E	32	36	3A	3E
95D0	42	46	4A	4E	52	56	5A	5E	62	66	6A	6E	72	76	7A	7E
95E0	82	86	8A	8E	92	96	9A	9E	A2	A6	AA	ΑE	B2	B6	ВА	BE
95F0	C2	C6	CA	CE	D2	D6	DA	DE	E2	E6	EΑ	EE	F2	F6	FA	FF
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96B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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98B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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98D0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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99B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9A70	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9A80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

9B60	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9B80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9BD0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9C00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9C40	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9C60	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9C70	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9C80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9C90	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9CA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9CB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9CC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9CD0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9CE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9D00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
9D10	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9D70	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9EA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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9F00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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A010	00	00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	F	FF	FF
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A080	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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A0F0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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A1E0	D0	02	88	00	20	00	CE	04	D0	02	00	00	2B	00	01	10
A1F0	01	00	00	03	56	05	00	00	00	00	D0	02	CE	04	01	00
A200	12	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A210	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
A220	00	10	CE	04	00	00	00	00	00	10	D0	02	D0	02	CE	04
A230	00	00	D0	02	02	00	6E	06	3F	00	6C	00	20	00	CE	04
A240	D0	02	88	00	20	00	CE	04	D0	02	00	00	2B	00	01	10
A250	01	00	00	03	56	05	00	00	00	00	D0	02	CE	04	01	00
A260	12	01	00	00	00	00	00	00	00	00	00	00	00	00	00	00
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A290	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
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A320	FF	FF	FF	FF	FF	FF	FF	FF	40	A0	80	20	FF	FF	FF	FF
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A340	77	08	23	09	23	09	05	00	3F	06	44	00	56	05	00	03
A350	44	00	56	05	00	03	6E	06	26	03	05	00	3E	0E	09	00
A360	0A	C0	40	00	00	00	10	04	00	10	82	00	60	05	1B	B4
A370	39	C7	EΑ	00	40	00	56	05	1E	00	1E	00	76	02	6A	04
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D060	0E	0E	00	00	00	00	00	00	0F	0F	00	00	00	00	02	00
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D080	0F	0F	00	03	00	0A	00	00	0F	0F	00	0A	00	0A	00	00
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D0D0	17	17	00	00	00	00	02	00	18	18	00	00	00	00	02	00
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D430	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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D5A0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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D700	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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D720	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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D740	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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D800	01	01	00	00	00	00	02	00	02	02	00	00	00	00	02	00
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D820	05	05	00	00	00	00	02	00	06	06	00	00	00	00	02	00
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D880	11	11	00	00	00	00	00	00	12	12	00	00	00	00	02	00
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D8B0	17	17	00	00	00	00	00	00	18	18	00	00	00	00	02	00
D8C0	19	19	00	00	00	00	00	00	1A	1A	00	00	00	00	02	00
D8D0	1B	1B	00	00	00	00	02	00	1C	1C	00	00	00	00	02	00
D8E0	1D	1D	00	00	00	00	02	00	1E	1E	00	00	00	00	02	00
D8F0	1F	1F	00	00	00	00	00	00	20	20	00	00	00	00	02	00
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D930	27	27	00	00	00	00	02	00	28	28	00	00	00	00	02	00
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DA40	49	49	00	00	00	00	02	00	4A	4A	00	00	00	00	02	00
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DA80	51	51	00	00	00	00	02	00	52	52	00	00	00	00	02	00
DA90	53	53	00	00	00	00	02	00	54	54	00	00	00	00	02	00
DAA0	55	55	00	00	00	00	00	00	56	56	00	00	00	00	00	00
DAB0	57	57	00	00	00	00	02	00	58	58	00	00	00	00	02	00
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DAD0	5B	5B	00	00	00	00	02	00	5C	5C	00	00	00	00	00	00
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DB00	61	61	00	00	00	00	02	00	62	62	00	00	00	00	02	00
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DB20	65	65	00	00	00	00	02	00	66	66	00	00	00	00	00	00
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DB40	69	69	00	00	00	00	02	00	6A	6A	00	00	00	00	00	00
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DB70	6F	6F	00	00	00	00	02	00	70	70	00	00	00	00	02	00
DB80	71	71	00	00	00	00	02	00	72	72	00	00	00	00	02	00
DB90	73	73	00	00	00	00	02	00	74	74	00	00	00	00	02	00
DBA0	75	75	00	00	00	00	02	00	76	76	00	00	00	00	02	00
DBB0	77	77	00	00	00	00	00	00	78	78	00	00	00	00	02	00
DBC0	79	79	00	00	00	00	02	00	7A	7A	00	00	00	00	02	00
DBD0	7B	7B	00	00	00	00	02	00	7C	7C	00	00	00	00	02	00
DBE0	7D	7D	00	00	00	00	02	00	FF	FF	FF	FF	FF	FF	FF	FF
DBF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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DC70	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
DC80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

DD60	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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DDA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
DDB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
DDC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
DDD0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
DDE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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DEB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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<b>E</b> 3E0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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ECB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
ECC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

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EDC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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EE70	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EE80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EE90	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EEA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EEB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EEC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EED0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EEE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EEF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EF00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EF10	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EF20	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EF30	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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EF60	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EF70	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EF80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EF90	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EFA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EFB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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EFE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
EFF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F000	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

F0E0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F0F0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F330	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F340	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

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F430	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F670	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F760	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F780	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F7B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F7C0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F7D0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F7E0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F860	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F870	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F8B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F8C0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F8F0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F900	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F910	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F920	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F930	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F940	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F950	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F960	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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F9B0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
F9C0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

FAA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FAB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FAC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FAD0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FAE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FAF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FB00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FB10	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FB20	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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FB80	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FB90	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FBA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FBB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FBC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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FCA0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FCB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FCC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FCD0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FCE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FCF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FD00	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

FDE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FDF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
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FEB0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FEC0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FED0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FEE0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF
FEF0	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF	FF

#### 1. ADJUSTMENT PROCEDURE

Read and perform these adjustments when repairing the circuits or replacing electrical parts or PCB assemblies.

#### **CAUTION**

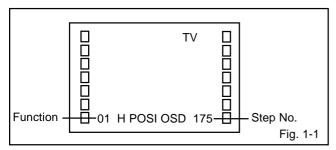
- Use an isolation transformer when performing any service on this chassis.
- When removing a PCB or related component, after unfastening or changing a wire, be sure to put the wire back in its original position.
- When you exchange IC and Transistor with a heat sink, apply silicon grease on the contact section of the heat sink. Before applying new silicon grease, remove all the old silicon grease. (Old grease may cause damages to the IC and Transistor).

# Prepare the following measurement tools for electrical adjustments.

1. Patterm Generator

#### **On-Screen Display Adjustment**

- 1. Set the VOLUME to minimum.
- Press the VOL. DOWN button on the set and the channel button (9) on the remote control for more than 2 seconds to display adjustment mode on the screen as shown in Fig. 1-1.



- Use the Channel UP/DOWN button or Channel button (0-9) on the remote control to select the options shown in Fig. 1-2.
- Press the INPUT button on the remote control to end the adjustments.
- 5. To display the adjustment screen for TV, AV, GAME, YUV, HDMI, DVD and PC mode, press the INPUT button on the remote control to set to the TV, AV, GAME, YUV, HDMI, DVD and PC mode. Press the VOL.DOWN button on the set and the channel (9) on the remote control for more than 2 seconds.

NO.	FUNCTION	NO.	FUNCTION
01	H POSI OSD	22	H POSI 60Hz
02	V POSI OSD	24	V POSI 60Hz
03	R DRIVE(N)	25	BAK LIGHT CENT
04	R CUT OFF(N)	26	BAK LIGHT MAX
05	G DRIVE(N)	27	BAK LIGHT MIN
06	G CUT OFF(N)	28	BRIGHT CENT
07	B DRIVE(N)	29	BRIGHT MAX
08	B CUT OFF(N)	30	BRIGHT MIN
09	R DRIVE(C)	31	TINT
10	R CUT OFF(C)	32	SHARP CENTER
11	G DRIVE(C)	33	SHARP MAX
12	G CUT OFF(C)	34	SHARP MIN
13	B DRIVE(C)	35	CONTRAST CENTER
14	B CUT OFF(C)	36	CONTRAST MAX
15	R DRIVE(W)	37	CONTRAST MIN
16	R CUT OFF(W)	38	COLOR CENT
17	G DRIVE(W)	39	COLOR MAX
18	G CUT OFF(W)	40	COLOR MIN
19	B DRIVE(W)		
20	B CUT OFF(W)		Fig. 1-2
l			1 ig. 1-2

#### 2. BASIC ADJUSTMENTS

#### 2-1: CONTRAST MAX

- 1. Receive the monoscope pattern. (RF Input)
- Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (36) on the remote control to select "CONTRAST MAX".
- 4. Press the LEFT/RIGTH button on the remote control until the contrast step No. becomes "212"
- 5. Check if the picture is normal.
- 6. Receive the monoscope pattern. (VIDEO Input)
- Press the INPUT button on the remote control to set to the AV mode.
- 8. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 2-1 and press the channel button (36) on the remote control to select "CONTRAST MAX".
- 10. Press the LEFT/RIGTH button on the remote control until the contrast step No. becomes "216".
- 11. Check if the picture is normal.
- 12. Playback the DVD(480i) disc. (COMPONENT Input)
- 13. Press the INPUT button on the remote control to set to the YUV mode. Then perform the above adjustments 8~11.
- 14. Playback the DVD(480i) disc. (HDMI Input)
- 15. Press the INPUT button on the remote control to set to the HDMI mode.
- 16. Using the remote control, set the brightness and contrast to normal position.
  - Activate the adjustment mode display of Fig. 1-1 and press
- 17. the channel button **(36)** on the remote control to select "CONTRAST MAX".
- 18. Press the LEFT/RIGTH button on the remote control until the contrast step No. becomes "160".
- 19. Check if the picture is normal.

#### 2-2: WHITE BALANCE

- 1. Place the set in Aging Test for more than 15 minutes.
- 2. Receive the gray scale pattern from the Pattern Generator.
- 3. Using the remote control, set the brightness and contrast to normal position.
- Activate the adjustment mode display of Fig. 1-1 and press the channel button (03) on the remote control to select "R DRIVE(N)".
- Press the CH. UP/DOWN button on the remote control to select the "R CUT OFF(N)", "B DRIVE(N)", "B CUT OFF(N)", "R DRIVE(C)", "R CUT OFF(C)", "B DRIVE(C)", "B CUT OFF(C)", "R DRIVE(W)", "R CUT OFF(W)", "B DRIVE(W)" or "B CUT OFF(W)".
- Adjust the LEFT/RIGTH button on the remote control to whiten the R CUT OFF(N), B DRIVE(N), B CUT OFF(N), R DRIVE(C), R CUT OFF(C)", B DRIVE(C), B CUT OFF(C), R DRIVE(W), R CUT OFF(W), B DRIVE(W) or B CUT OFF(W) at each step tone sections equally.
- 7. Perform the above adjustments 5 and 6 until the white achieved.

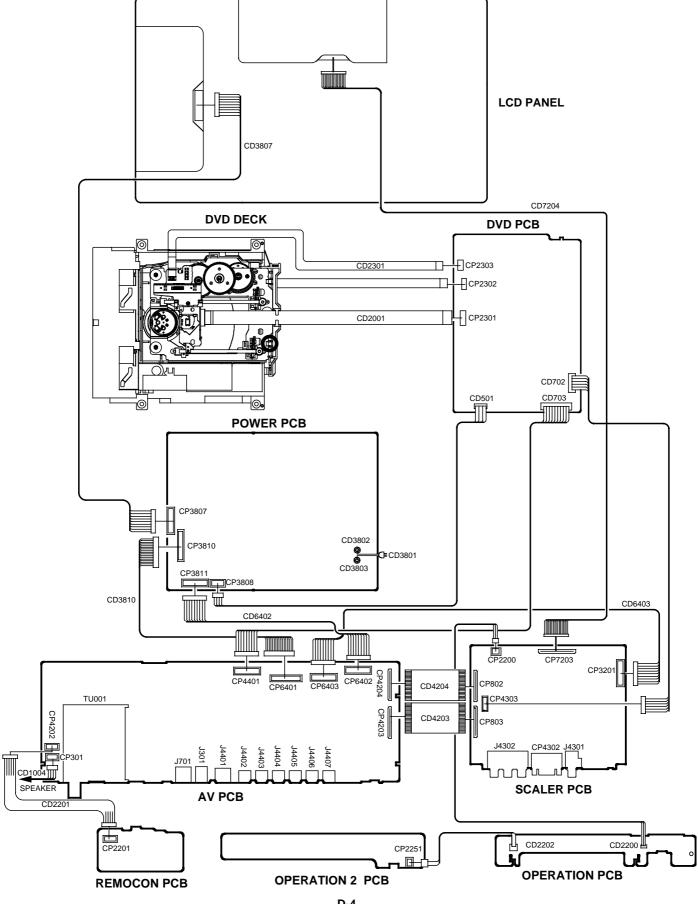
### 2-3: Confirmation of Fixed Value (Step No.)

Please check if the fixed values of each of the adjustment items are set correctly referring below.

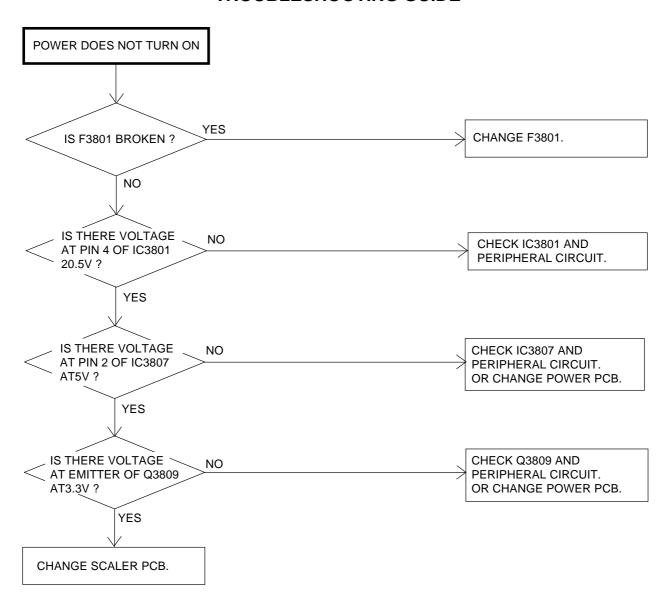
## (TV/AV/GAME/YUV/HDMI/DVD/PC)

			AV/		Υl	JV			НС	OMI				
		TV	GAME	480i	480p	720P	1080i	480i	480p	720P	1080i	VGA	DVD	PC
NO.	FUNCTION		Step No.											
1	H POSI OSD	344	344	344	344	344	344	344	344	344	344	344	344	344
2	V POSI OSD	83	83	83	83	83	83	83	83	83	83	83	83	83
3	R DRIVE(N)													120
5	G DRIVE(N)													120
7	B DRIVE(N)				:						:	:		120
22	H POSI	284	284	284	145	320	122	284	145	280	228	156	288	158
24	V POSI	35	35	35	35	55	36	35	35	50	31	33	35	24
25	BAK LIGHT CENT	128	128	128	128	128	128	128	128	128	128	128	128	128
26	BAK LIGHT MAX	255	255	255	255	255	255	255	255	255	255	255	255	255
27	BAK LIGHT MIN	00	00	00	00	00	00	00	00	00	00	00	00	00
28	BRIGHT CENT	132	128	128	128	128	128	128	128	128	128	128	128	128
29	BRIGHT MAX	156	156	156	156	156	156	156	156	156	156	156	156	168
30	BRIGHT MIN	70	70	70	70	70	70	70	70	70	70	70	70	80
31	TINT	125	125	131	125	125	125	125	125	125	125	125	125	
35	CONTRAST CENTER	161	165	165	107	107	106	104	104	104	105	104	165	100
36	CONTRAST MAX	212	216	216	140	140	140	160	160	160	160	160	219	140
37	CONTRAST MIN	50	50	50	50	50	50	50	50	50	50	50	50	60
38	COLOR CENT	86	64	83	120	120	120	70	70	70	70	70	64	
39	COLOR MAX	127	127	127	180	180	180	127	127	127	127	127	127	
40	COLOR MIN	00	00	00	00	00	00	00	00	00	00	00	00	00

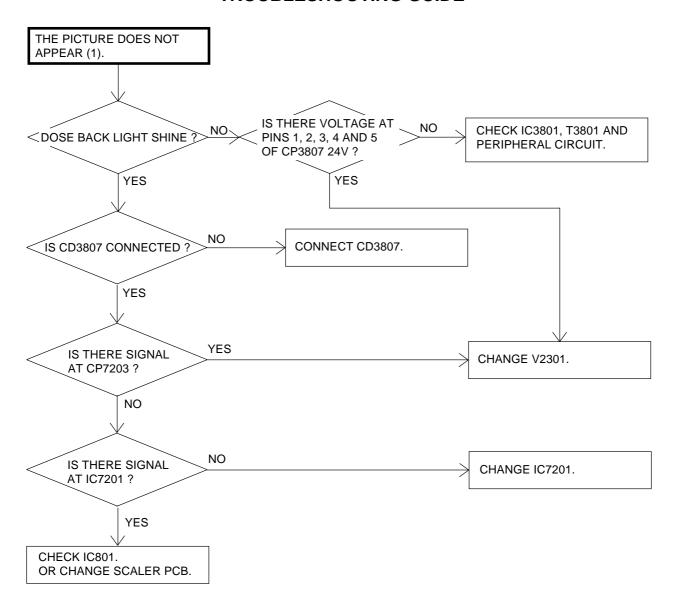
# 3. ELECTRICAL ADJUSTMENT PARTS LOCATION GUIDE (WIRING CONNECTION)

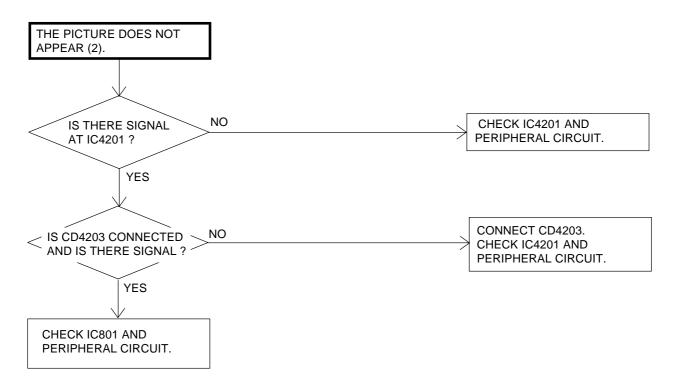


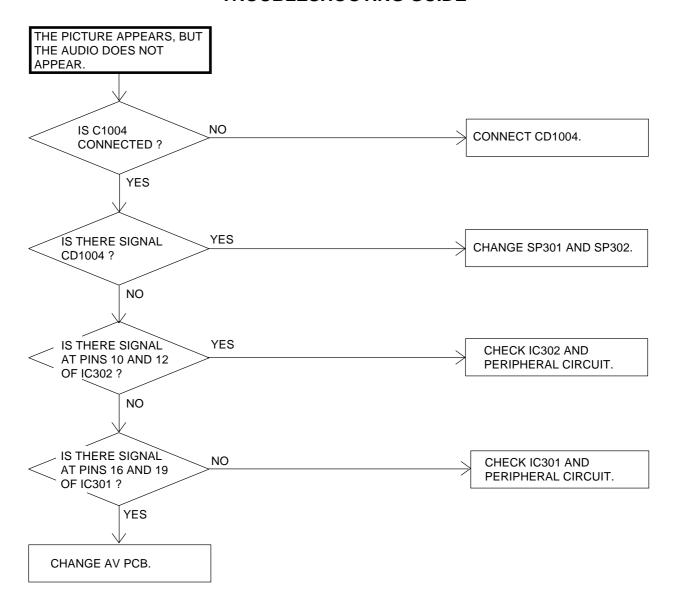
# TROUBLESHOOTING GUIDE

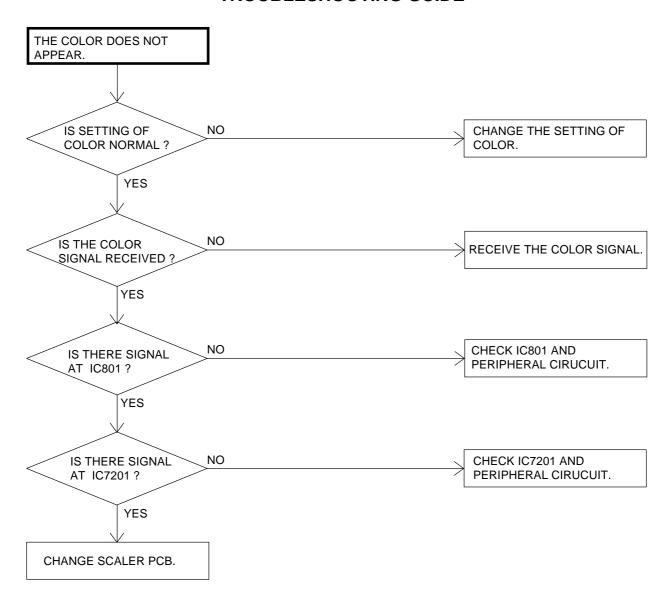


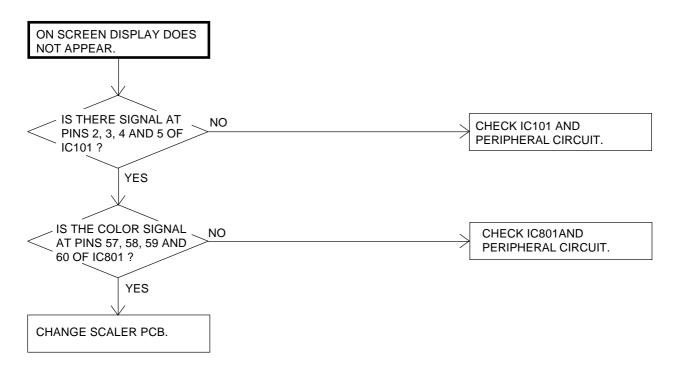
# TROUBLESHOOTING GUIDE

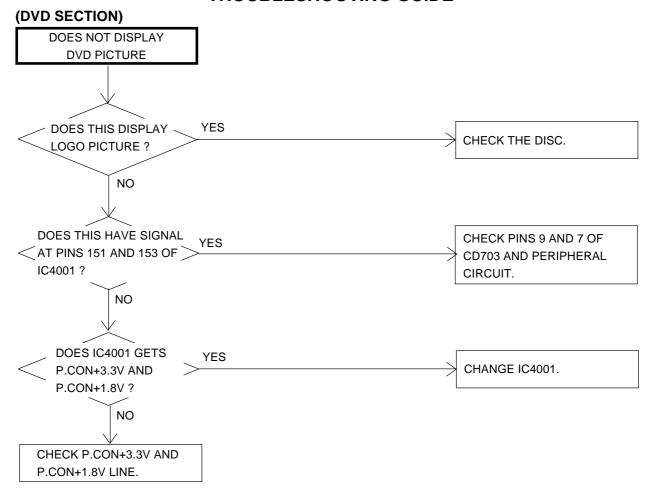


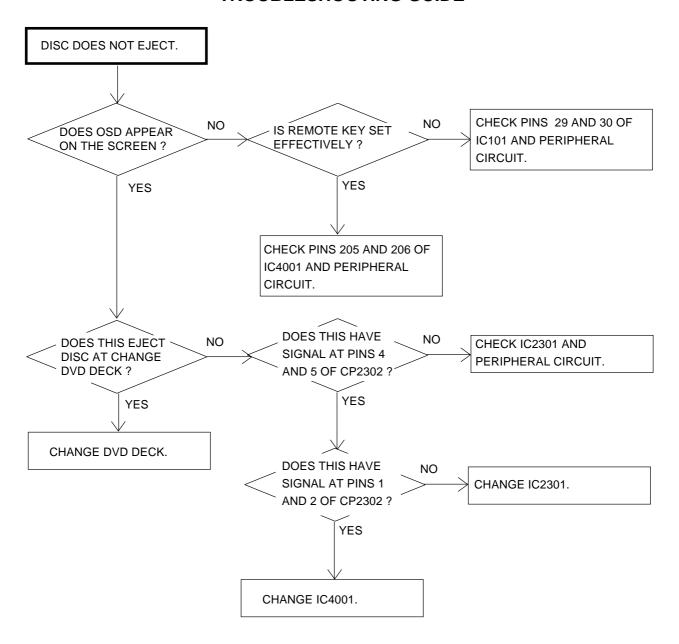


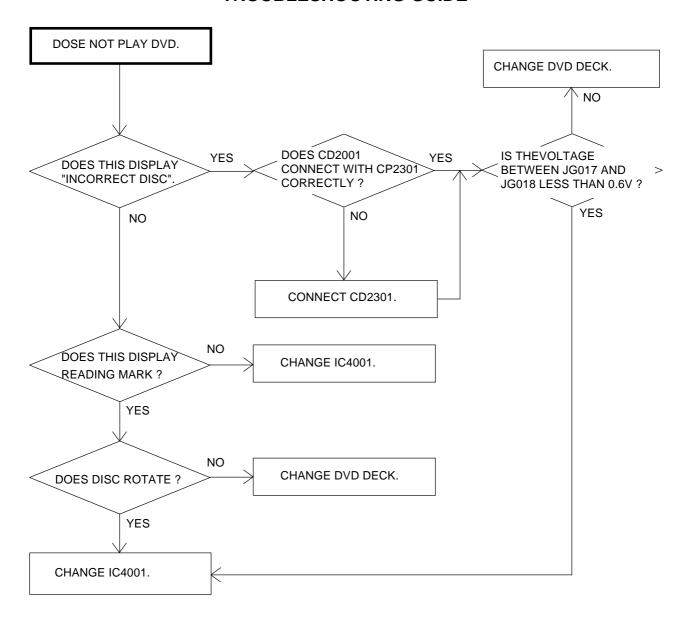


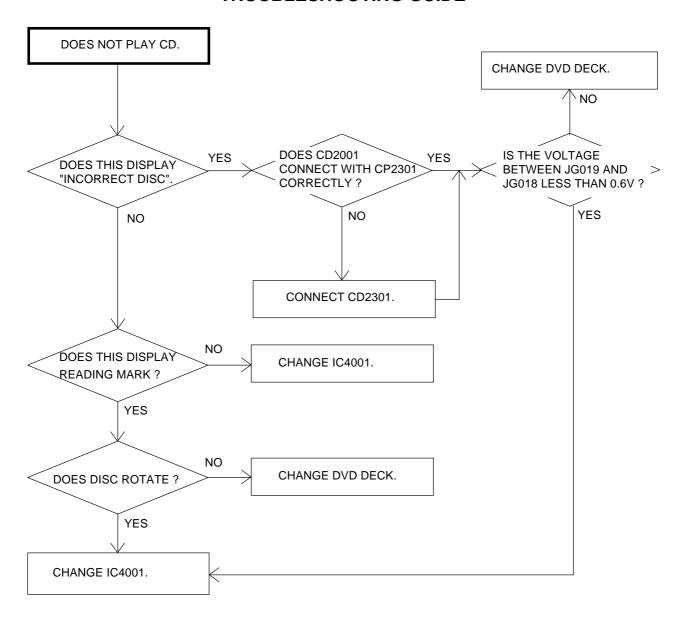


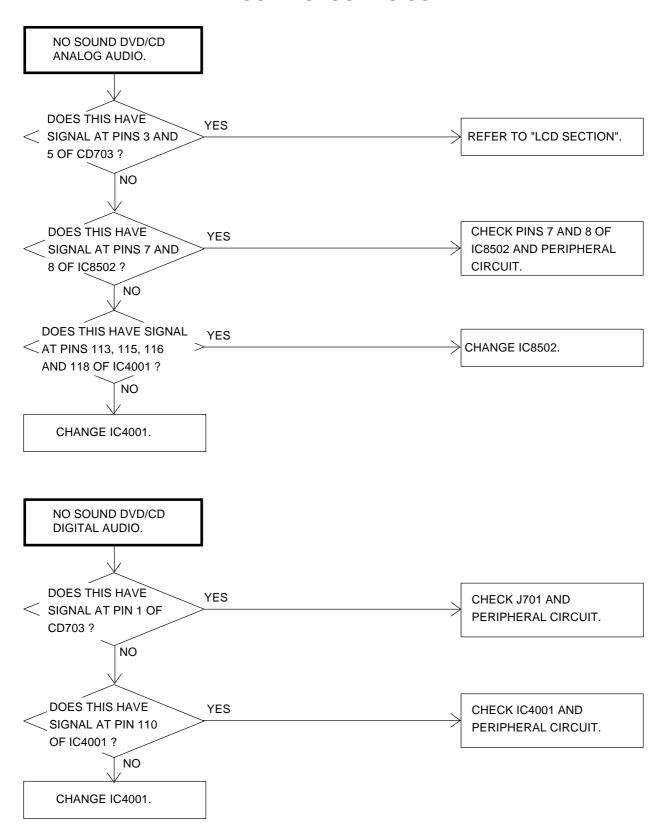




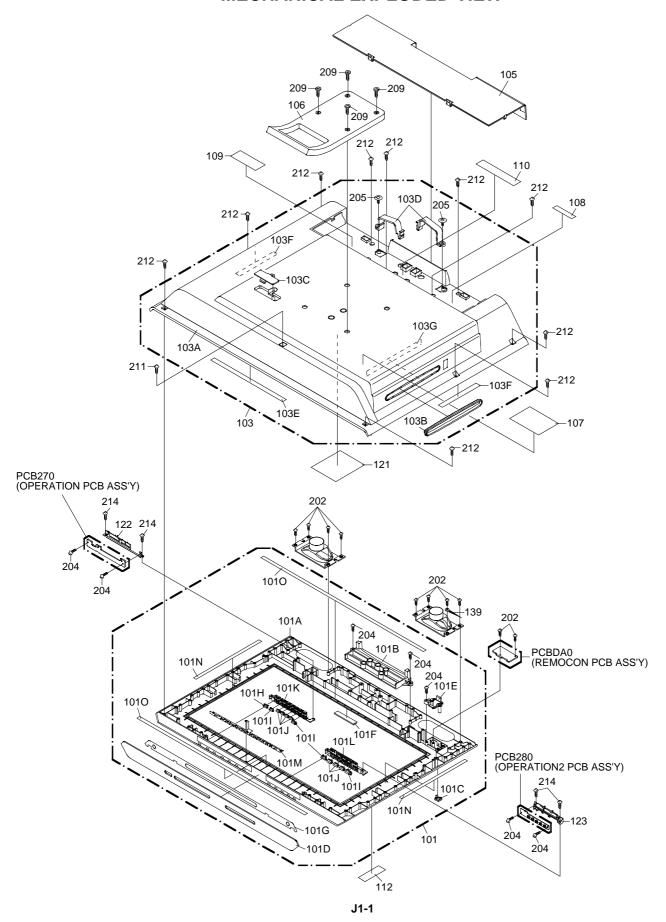




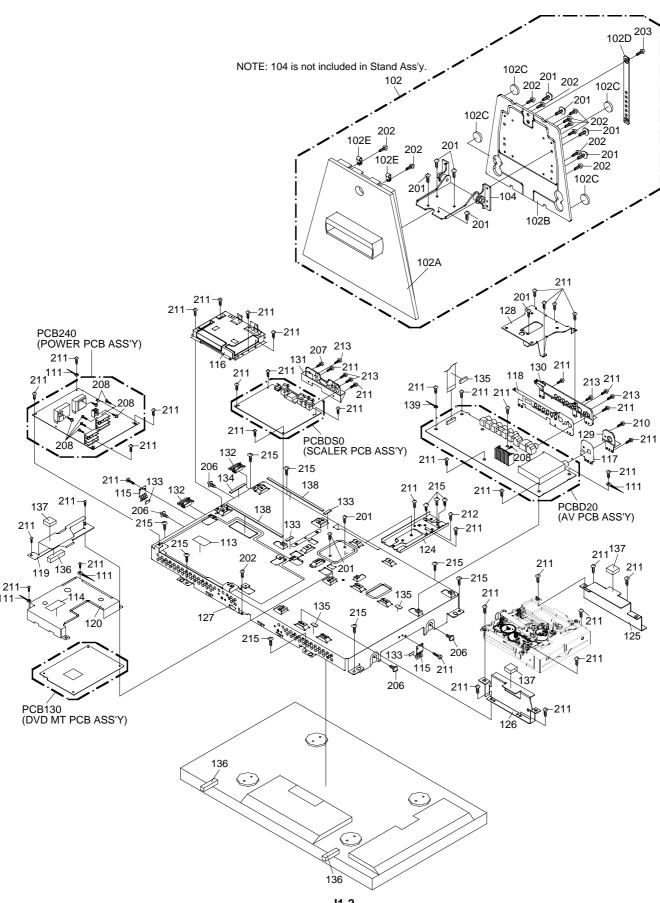




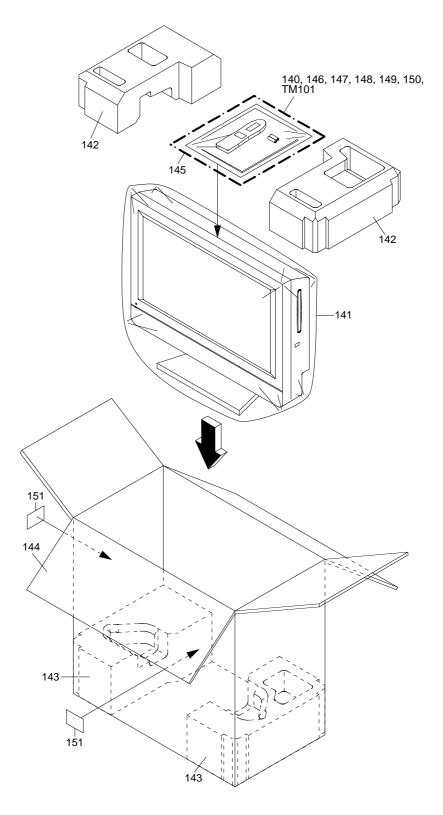
#### **MECHANICAL EXPLODED VIEW**



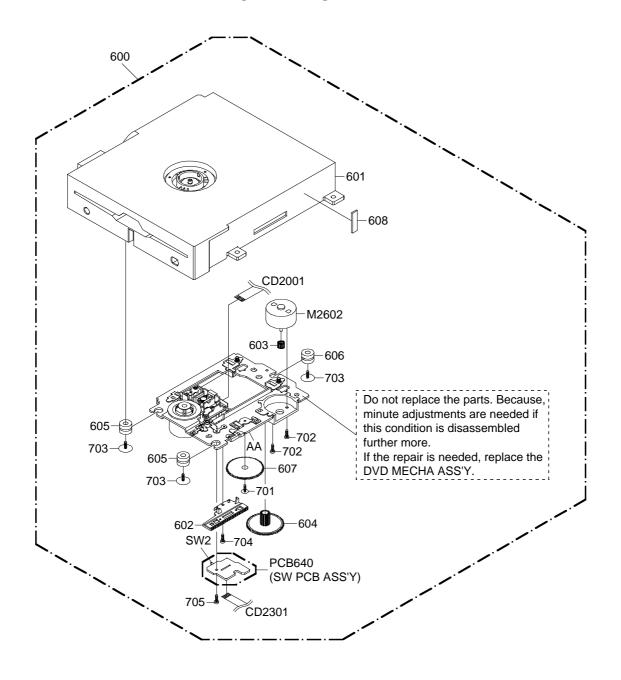
#### **MECHANICAL EXPLODED VIEW**



# MECHANICAL EXPLODED VIEW (PACKING DIAGRAM)



#### **DVD DECK EXPLODED VIEW**



CLASS	MARK
GREASE	AA

**NOTE:** Applying positions AA for the grease are displayed for this section. Check if the correct grease is applied for each position.

## **MECHANICAL REPLACEMENT PARTS LIST**

Location No.	TSB P/N	Reference No.	Description
101	AE008506	7A7010234A	FRONT CABI ASS'Y
101A	AE008652	701WPJ1450	CABINET,FRONT
101B	AE008653	702WPB0101	COVER,HINGE
101C	AE007691	711WPA0242	PLATE,FRONT
101D	AE008654	711WPK0001	PLATE TOP ASS'Y
101E	AE008655	713WPA0404	GLASS,LED
101F	AE007694	7235490068	BADGE BRAND
101G	AE007695	7290000158	DOUBLE,FACE-TAPE
101H	AE007696	735WPE0048	BUTTON,CAP-1
1011	AE008656 AE008657	735WPE0051	BUTTON,CAP-2
101J 101K	AE008658	735WPE0052 738WPA0200	BUTTON,CAP-3 BUTTON,FRAME-TV
101L	AE008659	738WPA0201	BUTTON,FRAME-DVD
101M	AE008660	752WSA0563	SHIELD, BUTTON
101N	AE005451	800WQ0A049	FELT SHEET
1010	AE007702	800WQ00094	FELT,SHEET
102	AE008661	7A7040018A	STAND ASS'Y
102A	AE008662	704WPBA010	STAND
102B	AE007736	761WSB0008	ANGLE STAND
102C 102D	AE007737 AE007710	800WFA0078 89900FB118	CUSHION LEG BAND
102D 102E	AE007710 AE007711	899000NK4N	CABLE CLAMPS
103	AE008663	7A7020097A	BACK CABI ASS'Y
103A	AE008664	702WPJ0054	CABINET,BACK
103B	AE008457	704WPE0003	SLOT DVD
103C	AE008458	706WPBA004	COVER CONNECTOR
103D	AE008665	774WPA0009	HOLDER CORD
103E 103F	AE003069 AE007707	800WQ0A070 800WQ0A110	FELT SHEET FELT SHEET
103F 103G	AE007707 AE008459	800WQ0A110 800WQ00105	FELT SHEET
104	AE008460	706JSA0015	HINGE ASS'Y
105	AE008666	702WPB0100	COVER,BACK
106	AE008667	705WPBA011	HANDLE
107	AE008668	7225490252	SHEET RATING
108 109	AE008669 AE008670	7230008153 7230008155	SHEET,JACK-1 SHEET,JACK-3
110	AE008671	7230008204	SHEET JACK-2
111	BZ710039	8995034000	CORD CLIP UL CO.
112	AE008672	7235490089	POP,LABEL
113	AE008673	7240001124	SHEET PC
114	AE005122	726000A073	SHEET CAUTION
115	AE008674	744WUA0022	SPRING EARTH
116	AE008675	752WSA0575	SHIELD SCALER
117	AE008676	752WSA0589	SHIELD,JACK-1
118	AE008677	752WSA0590	SHIELD, JACK-2
119	AE008471	752WSA0595	SHIELD FFC
120	AE008678	752WSA0607	SHIELD MPEG
121	AE008679	753WEA0040	SHEET CU
122	AE008680	761WPA0429	HOLDER,PCB-TV
123 124	AE008476 AE007717	761WPA0430 761WSA0264	HOLDER PCB-DVD ANGLE,HINGE
125	AE007717 AE008481	761WSA0364	ANGLE, HINGE ANGLE DECK-L
126	AE008482	761WSA0365	ANGLE DECK-R
127	AE008681	761WSA0382	COVER,LCD
128	AE008682	761WSA0394	ANGLE, HANDLE-DVD
129	AE008683	771WPB0072	PLATE,JACK-1

## **MECHANICAL REPLACEMENT PARTS LIST**

Location No.	TSB P/N	Reference No.	Description
130	AE008684	771WPB0073	PLATE,JACK-2
131	AE008685	771WPB0074	PLATE,JACK-3
132	AE000164	774WPA0005	HOLDER WIRE-2
133	AE008686	8965TS0230	CUSHION W6/H2/L30
134	AE008687	8965TS0260	CUSHION W6/H2/L60
135	AE008688	8965TS1030	CUSHION W10/H10/L30
136	AE007726	8965TS1060	CUSHION W10/H10/L60
137	AE008689	8965TS2015	CUSHION W20/H15/L20
138	AE008690	8965TS2180	CUSHION W6/H2/L180
139	AD301370	899EFBA002	WIRING-CLIP
140	AE008691	J5X20310A	INSTRUCTION BOOK(F)
141	AE002901	791WHDA001	LAMIFILM BAG
142	AE008692	792WHA0676	PACKAGE TOP
143	AE008693	792WHA0677	PACKAGE BOTTOM
144	AE008694	793WCD1768	GIFT BOX
145	AE008695	A5X203D975	INSTRUCTION BOOK KIT
146	AE008696	JA4ND500	POLYBAG,INSTRUCTION(RED CAUTION)
147	AE007451	J3N51617A	REGISTRATION CARD
148	AE007852	J5N00629A	INFORMATION SHEET(CND)
149	AE007627	J5S10229A	INFORMATION SHEET(USA)
150	AE008697	J5X20301A	INSTRUCTION BOOK(E)
151	AE008698	7230008156	SHEET,BARCODE
201	AE005338	810A140A0U	SCREW WASHER(A) M4*10 CH
202	AE003528	8110630A0U	SCREW TAP TITE(P) BRAZIER 3*10 CH
203	AE007747	814623080U	SCREW TAP TITE(B) BIND 3*5.7+4*2.3 CH
204	AE003529	811063080U	SCREW TAP TITE(P) BRAZIER 3*8 CH
205	AE005472	8159130A0S	SCREW,TAPPING(B) WASHER12 PAN 3*10 BLACK
206	AE007748	810A13050U	SCREW WASHER(A) M3*5 CH
207	AE005214	810213080U	SCREW,PAN M3*8
208	AE003524	8109I30A0U	SCREW TAP TITE(B) WH7 3*10 CH
209	AE005471	8102240A2U	SCREW,BIND M4*12 CH
210	AE005987	810723060U	SCREW TAP TITE(S) BIND 3*6 CH
211	AE003526	810923080U	SCREW TAP TITE(B) BIND 3*8 CH
212	AE005470	8110230A4U	SCREW TAP TITE(P) BIND 3*14 CH
213	AE007749	811023080U	SCREW TAP TITE(P) BIND 3*8 CH
214	AE005832	8110630A2U	SCREW TAP TITE(P) BRAZIER 3*12 CH
215	AE004847	8117540A6U	SCREW TAP TITE(B0) TRUSS 4*16 CH

## **DVD DECK REPLACEMENT PARTS LIST**

Location No.	TSB P/N	Reference No.	Description
<b>△</b> 600	AE008498	A5X002C650	DVD MECHA ASS'Y A5X002C650
601	AE008499	92SBB0033A	LOADER SUB ASS'Y DLM1D29-31
602	AE005815	92AAA0017A	FEED RACK ASS'Y
603	AE003551	92P100088A	GEAR,MOTOR
604	AE005805	92P100117A	GEAR,MIDDLE
605	AE008500	92P200017A	INSULATOR, F
606	AE008501	92P200018A	INSULATOR, R
607	AE005816	92P100116A	GEAR,FEED
608	BZ710149	800WFAA008	CUSHION C
701	AE005817	92P700007A	SCREW,GEAR FEED
702	AE003554	814011723U	SCREW,PAN M1.7*2.3 P3 CH
703	AE003555	816112080U	SEMS.TAP TITE(P) PAN W10 2*8 CH
704	AE005006	813381750U	SCREW,T-TITE(B)CAMERA PAN M1.7*5.0 P3 CH
705	AE003557	811022080U	SCREW,TAP TITE(P) BIND 2*8 CH
CD2001	AE008502	122J4O1603	CORD JUMPER 127000-2933
CD2301	AE003558	122H062102	CORD JUMPER 2H062102
SW2	AE001158	0500101036	PUSH SWITCH ESE22MH22
PCB640	AE008503	A5X002C640	SW PCB ASS'Y DED020A
<b>△</b> M2602	AE005821	1515S98004	MOTOR BCZ3B05

Location No.	TSB P/N	Reference No.	Description SISTORS	
Dago	D7010101			1 OHM 2W/
R338 <b>△</b> R3801	BZ210191	R3X28B010J R002T2155J	R,METAL OXIDE RC	1 OHM 3W 1.5M OHM 1/2W
<b>△</b> R3805	BZ210206 BZ210063	R3X181R22J	R,METAL OXIDE	0.22 OHM 1W
<b>△</b> R3812	BZ210003 BZ210078	R65584101J	R,FUSE	100 OHM 1/4W
<b>△</b> R3813	AE007372	R3K58A104J	R,METAL OXIDE	100 OHW 1/4VV
<b>△</b> R3815	AE007372 AE008642	R63884102J	R.FUSE	J 1K OHM 1/4W
<b>△</b> R3818	AE005735	R63881R22J	R,FUSE	0.22 OHM 1W
	712000700		PACITORS	O.ZZ OTIM TVV
C339	AE006603	E61FF3102D	CE	1000 UF 25V
<b>△</b> C3801	BZ110025	P2122B224M	CMP	0.22 UF 275V ECQUL
<b>△</b> C3803	BZ110035	P2122B104M	CMP	0.1 UF 275V ECQUL
<b>△</b> C3806	AE000950	CD39E0ME3M	CC	0.0015UF 250V
<b>△</b> C3807	AE005071	E61FT2681D	CE	680 UF 16V
<b>△</b> C3810	BZ110025	P2122B224M	CMP	0.22 UF 275V ECQUL
<b>△</b> C3817	AE008632	CD39B0ML2K	CC	330 PF 250V
<b>△</b> C3821	AE004934	CD39B0MH2K	CC	220 PF 250V
C3826	AE005071	E61FT2681D	CE	680 UF 16V
<b>△</b> C3827	AE008635	E71LFC591D	CE	590 UF 200V
C3829	BZ110182	C03L0R713K	CC	0.001 UF 2KV R
C3836	AE002229	P411F4393J	CMPP	0.039 UF 400V ECWF
<b>△</b> C3839	AE004934	CD39B0MH2K	CC	220 PF 250V
C3841	BZ110175	C03L0R7H2K	CC	220 PF 2KV R
<b>△</b> C3842	AE007807	E61FF4122D	CE CE	1200 UF 35V
<b>△</b> C3843 C3847	AE007807 AE000471	E61FF4122D E5EZU5100M	CE	1200 UF 35V 10 UF 50V
C3849	AE007807	E61FF4122D	CE	1200 UF 35V
△C3853	AE006603	E61FF3102D	CE	1000 UF 25V
△C3857	AE000003 AE002708	E5EZU2101M	CE	1000 UF 16V
△C3862	AE002708	E5EZU2101M	CE	100 UF 16V
	712002700		DIODES	100 01 101
D101	AE004795	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D105	AE007801	DD7R20S300	DIODE, SCHOTTKY BARRIER	RB520S-30-TE61
D106	AE004795	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D109	AE007801	DD7R20S300	DIODE, SCHOTTKY BARRIER	RB520S-30-TE61
D301	BZ410006	D1VT001330	DIODE, SILICON	1SS133T-77
D802	AE004795	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D803	AE004795	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D805	AE004795	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D807	BZ410086	DD7R0S3550	DIODE,SILICON	1SS355 TE-17
D808	BZ410086	DD7R0S3550	DIODE,SILICON	1SS355 TE-17
D2202	AE000288	0021E9Q010	LED	LTL-1BEFJ-002A
D2303	BZ410086	DD7R0S3550	DIODE, SILICON	1SS355 TE-17
D2304 D3001	BZ410086	DD7R0S3550 DD7RB051L0	DIODE, SILICON	1SS355 TE-17
D3001	AE008321 AE008321	DD7RB051L0	DIODE,SCHOTTKY DIODE,SCHOTTKY	RB051L-40_TE25 RB051L-40_TE25
D3002	AE008321	DD7RB051L0 DD7RB051L0	DIODE,SCHOTTKY	RB051L-40_TE25
D3206	AE004643	D28R1QS040	DIODE	EC31QS04-TE12L
D3207	AE004643	D28R1QS040	DIODE	EC31QS04-TE12L
D3209	AE004643	D28R1QS040	DIODE	EC31QS04-TE12L
D3600	AE004643	D28R1QS040	DIODE	EC31QS04-TE12L
D3601	AE004793	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25
D3602	AE004795	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D3603	AE004793	DD7R60L400	DIODE,SCHOTTKY	RB160L-40-TE25
D3606	AE004643	D28R1QS040	DIODE	EC31QS04-TE12L
D3609	AE004794	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17
D3613	AE004794	DE7RB3R32B	DIODE,ZENER	UDZS3.3B TE-17
<b>△</b> D3801	BZ410031	D6CE24110A	DIODE, VARISTA	ENE241D-10A-Q6
<b>△</b> D3803	AE004936	D6E027110A	DIODE,VARISTA	ENE271D-10A
D3804	AE004643	D28R1QS040	DIODE	EC31QS04-TE12L
<b>△</b> D3806	AE008634	DOU033020M D1VT001330	DIODE,VARISTA DIODE,SILICON	DSS-302M-S00B 1SS133T-77
D3809 D3811	BZ410006 AE008319	D4AT01H3E0	DIODE, SILICON DIODE, RECTIFIER	1H3-E
<b>△</b> D3812	AE008633	D2B0BV6080	DIODE,RECTITIEN  DIODE,BRIDGE	RBV-608
D3813	BZ410006	D1VT001330	DIODE,SILICON	1SS133T-77
D3814	BZ410066	D97U06R21B	DIODE,ZENER	MTZJ6.2B T-77
D3815	AE002133	D2BXARS010	DIODE,SILICON	SARS01-V1
D3817	AE008319	D4AT01H3E0	DIODE,RECTIFIER	1H3-E
D3818	AE008319	D4AT01H3E0	DIODE,RECTIFIER	1H3-E
<b>△</b> D3819	AE005173	D2BAMX22S0	DIODE,SCHOTTKY	FMX-22S
<b>△</b> D3820	AE005173	D2BAMX22S0	DIODE,SCHOTTKY	FMX-22S
<b>△</b> D3824	AE007800	D2CA2C15R0	DIODE, SCHOTTKY BARRIER	YG862C15R
D3825	AE008319	D4AT01H3E0	DIODE,RECTIFIER	1H3-E
D3826	BZ410109	D97U02001B	DIODE,ZENER	MTZJ20B T-77
D3827	AD302208	D97U03R31B	DIODE,ZENER	MTZJ3.3B T-77
D3828	BZ410020	D97U05R11B	DIODE,ZENER	MTZJ5.1B T-77

Location No.	TSB P/N	Reference No.	. Description	
D2020	BZ410064	D97U03R91B	DIODE,ZENER	MTZJ3.9B T-77
D3829			DIODE,SILICON	
D3831 D3832	BZ410006 AD302208	D1VT001330 D97U03R31B	DIODE, SILICON DIODE, ZENER	1SS133T-77 MTZJ3.3B T-77
D3834	BZ410084	D97U01101B	DIODE,ZENER	MTZJ3.3B 1-77 MTZJ11B T-77
D3634 D4002	BZ410086	DD7R0S3550	DIODE, SILICON	1SS355 TE-17
D4002 D4003	BZ410086	DD7R0S3550	DIODE, SILICON DIODE, SILICON	1SS355 TE-17 1SS355 TE-17
D4005	BZ410086	DD7R0S3550	DIODE, SILICON	1SS355 TE-17
D4008	BZ410086	DD7R0S3550	DIODE, SILICON	1SS355 TE-17
D4209	BZ410006	D1VT001330	DIODE, SILICON	1SS133T-77
D4301	AE004795	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D4302	AE004795	DE7RB5R62B	DIODE,ZENER	UDZS5.6B TE-17
D4310	BZ410086	DD7R0S3550	DIODE,SILICON	1SS355 TE-17
D6401	BZ410006	D1VT001330	DIODE,SILICON	1SS133T-77
D6402	AE004643	D28R1QS040	DIODE	EC31QS04-TE12L
D6403	AE008319	D4AT01H3E0	DIODE,RECTIFIER	1H3-E
D8509	BZ410086	DD7R0S3550	DIODE, SILICON	1SS355 TE-17
D8510	BZ410086	DD7R0S3550	DIODE, SILICON ICS	1SS355 TE-17
IC101	AE008648	S5X203DM01	MEMORY DATA	OEC7158A
IC102	79097849	I9UF032290	IC	PST3229NR
IC103	AE008644	S5X203DE02	MEMORY DATA	AT24C256N-10SU-2.7
IC104	AE008643	S5X203DE01	MEMORY DATA	AT24C256N-10SU-2.7
IC301	AD301983	I01FF58910	IC	AN5891SA-E1V
<b>△</b> IC302	AE008430	I03SP20520	IC	LA42052-E
IC303	AE002504	I0QF0580V0	IC	NJM4580V(TE1)
IC801	AE008638	I56K07A720	IC	R8J66607A72FP
IC901	AE004647	I01FF58320	IC	AN5832SA-E1V
IC2101	AE005610	IFSK0883C0	IC	MST9883C-LF-110
<b>△</b> IC2301	AE008194	103FV65650	IC	LA6565VR-TLM-E
<b>△</b> IC3001	AE004650	107F097430	IC	BA9743AFV-E2
<b>△</b> IC3002	AE006395	IOGF91ZPH0	IC	PQ070XZ01ZPH
<b>△</b> IC3003 <b>△</b> IC3201	AE004653	11KF98D050	IC IC	KIA78D05F
△IC3202	AE007825 AE008431	I07F0C0WF0 I07F078200	IC	BA00BC0WFP-E2 BD7820FP-E2
IC3600	AE008431	107F078200	IC	BD7820FP-E2
IC3601	AE008646	S5X203DE04	MEMORY DATA	BR24L02F-WE2
IC3602	AE007825	107F0C0WF0	IC	BA00BC0WFP-E2
IC3603	AE008640	IG1F090110	IC	SII9011CLU
IC3604	AE001295	I0QJ045800	IC	NJM4580M(TE1)
IC3605	AE008641	IG4F020210	IC	CM2021-00TR
IC3607	AE004802	I1FF043340	IC	CS4334-KSZR
IC3608	AE008645	S5X203DE03	MEMORY DATA	BR24L32F-WE2
IC3611	AE008639	ICMF089E50	IC	SST89E58RD2-40-C-TQJE
<b>△</b> IC3801	AE007826	I0BT0X6730	IC	STR-X6737
<b>△</b> IC3802	AE008636	I03T057740	IC	LA5774-E
IC3803	AE008593	I0GA9120R0	IC	PQ120RDA1SZH
<b>△</b> IC3805	AD302211	I1KJ9A431A	IC	KIA431A-AT
<b>△</b> IC3806	AE007827	I0GA9090R0	IC	PQ090RDA1SZH
<b>△</b> IC3807	AE008637	I0GA9050R0	IC	PQ050RDA1SZH
<b>△</b> IC3808	AE002809	000220002W	PHOTO COUPLER	PS2561AL1-1-V(W)
IC4001	AE008196	ICQK068821	IC	ZR36882ELCG
IC4005	AE008377	IG2J081657	IC	EM638165TS-7G
IC4007	AE008647	S5X203DF01	MEMORY DATA	SST39VF1601-70-4C-EKE
IC4201	AE002728	I01F05853B	IC	AN15853B-E1
IC4202	AE001295	I0QJ045800	IC	NJM4580M(TE1)
IC4203	AD301988	I0UF015010	IC	MM1501XNRE
IC4204	AD301988 AD301988	I0UF015010	IC IC	MM1501XNRE
IC4301 IC4302	AD301988	I0UF015010 I0UF015010	IC	MM1501XNRE MM1501XNRE
IC4302	AD301988	I0UF015010	IC	MM1501XNRE
IC4304	AD301988	I0UF015010	IC	MM1501XNRE
<b>△</b> IC6401	AE008435	I1LF010150	IC	AL1015
IC6402	AE007842	TJ7M50P030	FET	RSS050P03_TB
<b>△</b> IC6403	AE004648	103D979950	IC	LA7995M-TLM
IC7201	AE008438	IF8F0385A0	IC	ICSV385AGLFT
IC8103	AD301988	I0UF015010	IC	MM1501XNRE
IC8104	AE004651	I0QF025840	IC	NJM2584AM(TE1)
IC8502	AE003584	I17F017530	IC	PCM1753DBQR
<del></del>	<del>-</del> ·		NSISTORS	· · <del></del> ·
Q101	BZ510067	TNAAC05002	COMPOUND TRANSISTOR	KRC103SRTK
Q104	AE008379	T2AA5132E0	FET	KTK5132E-RTK/P
Q105	BZ510072	TPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q106	AE008379	T2AA5132E0	FET	KTK5132E-RTK/P
Q301	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q302	BZ510108	TAAA1504SY	TRANSISTOR, SILICON	KTA1504S_Y_RTK

Location No.	TSB P/N	Reference No	o. Description	
Q303	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S Y RTK
Q304	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q305	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q306	BZ510107	TPAAA05001	COMPOUND TRANSISTOR	KRA101SRTK
Q709	BZ510109	TCAA3875SY	TRANSISTOR.SILICON	KTC3875S Y RTK
Q2101	BZ510108	TAAA1504SY	TRANSISTOR, SILICON	KTA1504S_Y_RTK
Q2301	AE008330	TAAA1505SY	TRANSISTOR, SILICON	KTA1505S-Y-RTK/P
Q2302	AE008331	TAAA1544T0	TRANSISTOR, SILICON	KTA1544T-RTK/P
Q2303	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q2304	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q2305	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q3001	AE008441	TAAA01664Y	TRANSISTOR, SILICON	KTA1664-Y-RTF/P
Q3002	BZ510071	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q3003 Q3004	BZ510109 BZ510112	TCAA3875SY T67J1036K0	TRANSISTOR, SILICON	KTC3875S_Y_RTK 2SA1036KT146
Q3004 Q3005	BZ510112 BZ510109	TCAA3875SY	TRANSISTOR,SILICON TRANSISTOR,SILICON	KTC3875S_Y_RTK
Q3006	BZ510109 BZ510112	T67J1036K0	TRANSISTOR, SILICON	2SA1036KT146
<b>△</b> Q3007	AE004663	TJ5M081090	FET	TPC8109(T2LORION_Q)
<b>△</b> Q3008	AE004663	TJ5M081090	FET	TPC8109(T2LORION Q)
<b>△</b> Q3205	AE008441	TAAA01664Y	TRANSISTOR, SILICON	KTA1664-Y-RTF/P
Q3206	BZ510071	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q3209	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q3210	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q3600	AE008379	T2AA5132E0	FET	KTK5132E-RTK/P
Q3601	BZ510088	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3605	AE008379	T2AA5132E0	FET	KTK5132E-RTK/P
Q3606	AE008379	T2AA5132E0 TNAAD05001	FET COMPOUND TRANSISTOR	KTK5132E-RTK/P
Q3607 Q3608	BZ510088 BZ510107	TPAAA05001	COMPOUND TRANSISTOR	KRC104SRTK KRA101SRTK
Q3609	BZ510107 BZ510088	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3610	BZ510000	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S Y RTK
Q3611	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S Y RTK
Q3612	BZ510107	TPAAA05001	COMPOUND TRANSISTOR	KRA101SRTK
Q3613	BZ510088	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q3801	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q3804	BZ510108	TAAA1504SY	TRANSISTOR, SILICON	KTA1504S_Y_RTK
Q3805	BZ510020	TNYJB05001	COMPOUND TRANSISTOR	DTC114EKAT146
Q3808 Q3809	BZ510071 BZ510070	TNAAB05003 TCAT032034	COMPOUND TRANSISTOR TRANSISTOR, SILICON	KRC102SRTK KTC3203_Y-AT
Q4201	BZ510070 BZ510109	TCA1032034 TCAA3875SY	TRANSISTOR, SILICON	KTC3205_T-AT
Q4202	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q4203	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q4204	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q4205	AE008379	T2AA5132E0	FET	KTK5132E-RTK/P
Q4206	AE008379	T2AA5132E0	FET	KTK5132E-RTK/P
Q4207	BZ510088	TNAAD05001	COMPOUND TRANSISTOR	KRC104SRTK
Q4208	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q4209	BZ510107 BZ510067	TPAAA05001 TNAAC05002	COMPOUND TRANSISTOR COMPOUND TRANSISTOR	KRA101SRTK KRC103SRTK
Q4210 Q4231	BZ510007 BZ510072	TPAAC05002	COMPOUND TRANSISTOR	KRA103SRTK
Q4233	BZ510071	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q4301	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q4302	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q4304	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q4305	BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q6401	BZ510067	TNAAC05002	COMPOUND TRANSISTOR	KRC103SRTK
Q6402	BZ510071	TNAAB05003	COMPOUND TRANSISTOR	KRC102SRTK
Q8101 Q8102	BZ510108 BZ510109	TAAA1504SY TCAA3875SY	TRANSISTOR,SILICON TRANSISTOR,SILICON	KTA1504S_Y_RTK KTC3875S_Y_RTK
Q8102 Q8103	BZ510109 BZ510109	TCAA3875SY	TRANSISTOR, SILICON	KTC3875S_Y_RTK
Q8105	BZ510108	TAAA1504SY	TRANSISTOR, SILICON	KTA1504S_Y_RTK
Q8106	BZ510108	TAAA1504SY	TRANSISTOR, SILICON	KTA1504S_Y_RTK
		COILS &T	RANSFORMERS	
L001	AD300613	02167F150J	COIL	15 UH
L002	BZ310041	02167F101J	COIL	100 UH
L003	AE005592	0216S8330K	COIL	F 33 UH
L301	BZ310041	02167F101J	COIL	100 UH
L302	AD300613	02167F150J	COIL	15 UH
L703 L901	BZ310041 BZ310041	02167F101J 02167F101J	COIL COIL	100 UH 100 UH
L2101	AE005284	0216S8220K	COIL	F 22 UH
L2101 L2102	AE005284	0216S8220K	COIL	F 22 UH
L2103	AE005285	0216S8470K	COIL	F 47 UH
L2106	AE008606	0216S42R2J	COIL	2.2 UH
L2107	AE005284	0216S8220K	COIL	F 22 UH

Location No.	TSB P/N	Reference No.	Description RANSFORMERS	
L3001	AE004593	021404101L	COIL	1A 100 UH
L3002	AE004593	021404101L	COIL	1A 100 UH
L3002	BZ310191	021404101L 02167F2R2J	COIL	2.2 UH
L3004	BZ310150	02167F2220K	COIL	R7 22 UH
L3802	AE008607	02186I6R8L	COIL	6.8 UH
L3803	BZ310150	02167E220K	COIL	R7 22 UH
<b>△</b> L3804	AE005594	029X000122	COIL,LINE FILTER	SS28V-R22110-CH
L3805	AE008608	021W0G330M	COIL	33 UH
<b>△</b> L3807	AE005594	029X000122	COIL,LINE FILTER	SS28V-R22110-CH
L4201	BZ310040	02167F470J	COIL	47 UH
L4202	BZ310040	02167F470J	COIL	47 UH
L4203	BZ310040	02167F470J	COIL	47 UH
L4206	BZ310040	02167F470J	COIL	47 UH
L4207	BZ310040	02167F470J	COIL	47 UH
L4301	AE005285	0216S8470K	COIL	F 47 UH
L4306	AE005284	0216S8220K	COIL	F 22 UH
L4307	AE005284	0216S8220K	COIL	F 22 UH
L6401	BZ310150	02167E220K	COIL	R7 22 UH
L6402	AE007757	021404470M	COIL	70A 47 UH
L7201	AE005285	0216S8470K	COIL	F 47 UH
L7202	AE005285	0216S8470K	COIL	F 47 UH
L7203	AE005285	0216S8470K	COIL	F 47 UH
L8102	AE005285	0216S8470K	COIL	F 47 UH
L8104	AE005285	0216S8470K	COIL	F 47 UH
L8105	AE005284	0216S8220K	COIL	F 22 UH
L8502	AE000828	02167F1R0K	COIL	1 UH
L8503	AE000828	02167F1R0K	COIL	1 UH
<b>△</b> T3801	AE008611	0481400814	TRANSFORMER, SWITCHING	81400814
<b>△</b> J301	AE003431	060J131016	ACKS HEADPHONE JACK	MSJ-2000_AG
J701	AE003431 AE008402	060R401122	RCA JACK	RCA-117-01
J4301	AE008612	060J431025	RCA JACK	MSD-242VA1-03_NI_FE_LF
J4302	AE008613	060K431027	RCA JACK	AV6-57B03-01H
J4401	AE008558	063Y700014	JACK	DIN-409B
J4402	AE008398	060K421056	RCA JACK	AV-5A-66H
J4403	AE008400	060K421058	RCA JACK	AV-5A-68H
J4404	AE008399	060K421057	RCA JACK	AV-5A-67H
J4405	AE008398	060K421056	RCA JACK	AV-5A-66H
J4406	AE008400	060K421058	RCA JACK	AV-5A-68H
J4407	AE008399	060K421057	RCA JACK	AV-5A-67H
		SW	/ITCHES	
SW2201	BZ612010	0504101T34	SWITCH,TACT	EVQ21505R
SW2202	BZ612010	0504101T34	SWITCH,TACT	EVQ21505R
SW2203	BZ612010	0504101T34	SWITCH,TACT	EVQ21505R
SW2204	BZ612010	0504101T34	SWITCH,TACT	EVQ21505R
SW2206	BZ612010	0504101T34	SWITCH,TACT	EVQ21505R
SW2208	BZ612010	0504101T34	SWITCH,TACT	EVQ21505R
SW2209	BZ612010	0504101T34	SWITCH, TACT	EVQ21505R
SW2251	BZ612010	0504101T34 0504101T34	SWITCH,TACT	EVQ21505R
SW2252 SW2253	BZ612010 BZ612010	0504101T34 0504101T34	SWITCH,TACT SWITCH,TACT	EVQ21505R EVQ21505R
SW2254	BZ612010	0504101T34 0504101T34	SWITCH, TACT	EVQ21505R
SW2255	BZ612010	0504101T34	SWITCH,TACT	EVQ21505R
			D ASSEMBLIES	
PCB130	AE008625	A5X203D130	DVD MT PCB ASS'Y	DMF066A
PCB240	AE008626	A5X203D240	POWER PCB ASS'Y	CEF198A
PCB270	AE008627	A5X203D270	OPERATION PCB ASS'Y	CEF201A
PCB280	AE008628	A5X203D280	OPERATION 2 PCB ASS'Y	DEF092A
PCBD20	AE008629	A5X203DD20	AV PCB ASS'Y	CMF087A
PCBDA0	AE008630	A5X203DDA0	REMOCON PCB ASS'Y	CEF202A
PCBDS0	AE008631	A5X203DDS0	SCALER PCB ASS'Y	CEF170A
			LLANEOUS	
B701	BZ310121	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B702	BZ310121	024HT03553	CORE,BEADS	W5RH3.5X5X1.0
B801	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B802	AE007761	024AC5181J	CORE,BEADS CORE,BEADS	BLM18PG181SN1D FCM1608CF-600T06
B803 B804	AE008395 AE008395	024HC56005 024HC56005	CORE,BEADS CORE,BEADS	FCM1608CF-600T06 FCM1608CF-600T06
B804 B805	AE008395 AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B2101	AE007761 AE008395	024AC51613 024HC56005	CORE,BEADS	FCM1608CF-600T06
B2301	AE006393 AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B2302	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B2304	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B2305	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B3001	AE008394	024BC5121J	CORE,BEADS	BLM18PG121SN1D

Location No.	TSB P/N	Reference No.	Description LLANEOUS	
B3201	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3202	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3203	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3204	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3206	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3207	AE007761 AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3208	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B3601	AE008610	024HC51513	CORE,BEADS	FCM1608KF-151T06
B3602	AE008610	024HC51513	CORE,BEADS	FCM1608KF-151T06
B3603	AE008610	024HC51513	CORE,BEADS	FCM1608KF-151T06
B3604	AE008610	024HC51513	CORE,BEADS	FCM1608KF-151T06
B3605	AE008610	024HC51513	CORE,BEADS	FCM1608KF-151T06
B3608	AE008395	024HC56005	CORE,BEADS	FCM1608CF-600T06
B3609	AE008395	024HC56005	CORE,BEADS	FCM1608CF-600T06
B3610	AE008395	024HC56005	CORE,BEADS	FCM1608CF-600T06
B3611	AE008609	024HC51023	CORE,BEADS	FCM1608KF-102T02
B3613	AE008609	024HC51023	CORE,BEADS	FCM1608KF-102T02
B3614	AE008610	024HC51513	CORE,BEADS	FCM1608KF-151T06
B3615	AE008610	024HC51513	CORE,BEADS	FCM1608KF-151T06
B3802	BZ310129	024HT03564	CORE,BEADS	W4BRH3.5X6X1.0
B3804	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B4001	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4002	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4003	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4004	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4005	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4006	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4007	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4008	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4009	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4010	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4011	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4012	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4013	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4014	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4015	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4016 B4018	AE005476 AE005476	0246C51024 0246C51024	CORE,BEADS CORE,BEADS	MMZ1608R102CT MMZ1608R102CT
B4303	AE003476 AE008395	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4304	AE008395	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4305	AE008395	024HC56005	CORE,BEADS	FCM1608CF-600T06
B4307	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B4308	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
B6402	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B6403	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B6404	AE007761	024AC5181J	CORE,BEADS	BLM18PG181SN1D
B7201	AE008395	024HC56005	CORE,BEADS	FCM1608CF-600T06
B8503	AE005476	0246C51024	CORE,BEADS	MMZ1608R102CT
BT001	AE008217	141U004016	BATTERY,MANGAN	MNAAA(R03)
BT002	AE008217	141U004016	BATTERY,MANGAN	MNAAA(R03)
<b>△</b> CD501	AE008615	06CH241602	CORD,CONNECTOR	CH241602
CD702	AE004616	06CU261503	CORD,CONNECTOR	CU261503
CD703	AE008622	06CU291703	CORD,CONNECTOR	CU291703
CP101	AD300752	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P
CP102	BZ614213	069S2A0629	CONNECTOR PCB SIDE	A2001WV2-10P
CP103	BZ614485	069S270629	CONNECTOR PCB SIDE	A2001WV2-7P
CP301	AD301045	069S140419	CONNECTOR PCB SIDE	A2502WV2-4P
CP802	AE006528	069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+
CP803	AE007769	069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+
CD1004	AE008618	06CU147404	CORD,CONNECTOR	CU147404
CD2200	AE008620	06CU233002	CORD,CONNECTOR	CU233002
CD2201	AE008621	06CU251003	CORD,CONNECTOR	CU251003
CD2202	AE005289	06CU220702	CORD,CONNECTOR	CU220702
<b>△</b> CD3801	AE005639	1209414909	CORD,AC BUSH	9414909
CD3807	AE008617	06CH2E4401	CORD,CONNECTOR	CH2E4401
CD3810	AE008619	06CU1E2001	CORD, UMBER	CU1E2001
CD4203	AE007786	122H0T0801	CORD, JUMPER	2H0T0801
CD4204	AE007787	122H0U0802	CORD, JUMPER	2H0U0802
CD6402	AE008616	06CH281501	CORD, CONNECTOR	CH281501
CD6403	AE008623	06CU2B3401	CORD, CONNECTOR	CU2B3401
CD7204	AE007779	06CHRU3401	CORD, CONNECTOR	CHRU3401
CP2200 CP2201	BZ614350 AD300752	069S230629 069S250629	CONNECTOR PCB SIDE CONNECTOR PCB SIDE	A2001WV2-3P A2001WV2-5P
CP2201 CP2251	AE005287	069S220629 069S220639	CONNECTOR PCB SIDE	A2001WV2-5P A2001WR2-2P
CP2301	AE003287 AE008156	069KYOT159	CONNECTOR PCB SIDE	LD07T2-24ND-03
0. 2001	000100	330111 0 1 100	CO.TITEO FOR TOD OIDE	

Location No.	TSB P/N	Reference No.	. Description	
CP2302	AE005934	069EV53030	CONNECTOR PCB SIDE	00_6232_005_006_800+
CP2303	AE005935	069EV63030	CONNECTOR PCB SIDE	00_6232_006_006_800+
CP3201	BZ614214	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P
CP3601	AE004763	069HYJ3010	CONNECTOR PCB SIDE	DC1R019JDA
CP3604	BZ614458	069S290629	CONNECTOR PCB SIDE	A2001WV2-9P
			CONNECTOR PCB SIDE	
CP3802	BZ614016	069W01001A		003P-2100
<b>△</b> CP3805	BZ614016	069W01001A	CONNECTOR PCB SIDE	003P-2100
CP3807	BZ614459	069S2E0629	CONNECTOR PCB SIDE	A2001WV2-14P
CP3808	AD301998	069S240629	CONNECTOR PCB SIDE	A2001WV2-4P
CP3810	AE008614	069S1E0019	CONNECTOR PCB SIDE	A2501WV2-14P
CP3811	AD301796	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P
CP4202	AD300752	069S250629	CONNECTOR PCB SIDE	A2001WV2-5P
CP4203	AE007769	069EVT3030	CONNECTOR PCB SIDE	00_6232_029_006_800+
CP4204	AE006528	069EVU3030	CONNECTOR PCB SIDE	00_6232_030_006_800+
CP4302	AE007768	0694S15017	CONNECTOR PCB SIDE	1-1734344-1
CP4303	BZ614242	069S260629	CONNECTOR PCB SIDE	A2001WV2-6P
CP4401	BZ614458	069S290629	CONNECTOR PCB SIDE	A2001WV2-9P
CP6401	AE008614	069S1E0019	CONNECTOR PCB SIDE	A2501WV2-14P
CP6402	AD301796	069S280629	CONNECTOR PCB SIDE	A2001WV2-8P
<b>△</b> CP6403	BZ614214	069S2B0629	CONNECTOR PCB SIDE	A2001WV2-11P
CP7203	AE005151	069HVWT04A	CONNECTOR PCB SIDE	FI-X30S-HF-NPB
CUS911	BZ710148	800WFAA007	CUSHION B	
EL2401	BZ614043	124116281A	EYE LET	XRY16X28BD
EL2402	BZ614044	124120301A	EYE LET	XRY20X30BD
<b>△</b> F3001	AE004626	083LA05007	FUSE	1206FA5A-T
<b>△</b> F3801	BZ614504	081PC05005	FUSE	51MS050L
FH3801	AE002634	06710T0009	HOLDER,FUSE	EYF-52BCY
FH3803	AE002634	06710T0009	HOLDER,FUSE	EYF-52BCY
NR801	AE006386	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR802	AE005937	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR803	AE005937	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR804	AE005937	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR805	AE005937	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR806	AE005937	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR807	AE005937	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR808	AE008077	110P4103M4	R,NETWORK	4D03WGJ0103T5E
NR809	AE008077	110P4103M4	R,NETWORK	4D03WGJ0103T5E
NR2101	AE004680	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2102	AE004680	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2103	AE004680	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2104	AE004680	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2105	AE004680	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR2106	AE004680	110P4101M4	R,NETWORK	4D03WGJ0101T5E
NR3601	AE008078	110P4330M4	R,NETWORK	4D03WGJ0330T5E
NR3602	AE006386	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3604	AE006386	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3605	AE006386	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3606	AE006386	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3607	AE006386	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR3608	AE006386	110P4000M4	R,NETWORK	4D03WGJ0000T5E
NR7201	AE005937	110P4470M4	R,NETWORK	4D03WGJ0470T5E
NR7202	AE005937	110P4470M4	R,NETWORK	4D03WGJ0470T5E
OS2201	AE008414	077A033001	REMOTE RECEIVER	ROM-V338TAO
<b>△</b> SP301	AE006459	070N546012	SPEAKER	YDP4010-2
<b>△</b> SP302	AE006459	070N546012	SPEAKER	YDP4010-2
SH8501	AE008418	126R000038	TERMINAL PIN	TP00370-21
TM101	AE007781	076D0LT010	TRANSMITTER	ORV205N1505026-J
<b>△</b> TU001	AE008392	0162300048	RF UNIT	115-V-LA35ARH
<b>△</b> TH3801	AE007804	DSR0LDNB00	THERMISTOR	NTPAA2R2LDNB0
TR3801	BZ310181	02A6B2E0A1	CORE,FERRITE	HF70T22*10*14
TR3803	BZ310118	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
TR3804	BZ310118	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
TR3805	BZ310118	02AHB9A972	CORE,FERRITE	W5T29X7.5X19
TR3806	BZ310181	02A6B2E0A1	CORE,FERRITE	
<b>△</b> V2301	AE007783	09ES120001	LCD	LC200WX1-SL01
X101	AE004780	100WT01611	CRYSTAL	HC-49/U-S
X801	AE007784	100YT05401	CRYSTAL	FCX-03
X3601	AE004779	100CT01101	CRYSTAL	HC-49/U-S
X3602	AE008624	100DT02801	CRYSTAL	SMD-49
X4001	AE008161	100GT02720	CRYSTAL	B27000C005
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RESISTOR	RC	CARBON RESISTOR
CAPACITORS		
	CC	CERAMIC CAPACITOR
	CE	ALUMI ELECTROLYTIC CAPACITOR
	CP	POLYESTER CAPACITOR
	CPP	POLYPROPYLENE CAPACITOR
	CPL	PLASTIC CAPACITOR
	CMP	METAL POLYESTER CAPACITOR
	CMPL	METAL PLASTIC CAPACITOR
	CMPP	METAL POLYPROPYLENE CAPACITOR

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