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You can read the recommendations in the user guide, the technical guide or the installation guide for ZENITH DVT216. You'll find the answers to all your questions on the ZENITH DVT216 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual ZENITH DVT216
User guide ZENITH DVT216
Operating instructions ZENITH DVT216
Instructions for use ZENITH DVT216
Instruction manual ZENITH DVT216

Installation and Operating Guide | Warranty

Model Number | DVT216 (Speakers: FE-5620TE/FE-5620WE) | DVD Home Cinema System



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Manual abstract:

This product generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this product does cause harmful interference to radio or television reception, which can be determined by turning the product off and on, the user is encouraged to try to correct the interference by one or more of the following measures: · Reorient or relocate the receiving antenna. · Increase the separation between the product and receiver. · Connect the product into an outlet on a circuit different from that to which the receiver is connected. · Consult the dealer or an experienced radio/TV technician for help. **FCC WARNING:** This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made. **FCC COMPLIANCE:** The responsible party for this product's compliance is: Zenith Electronics Corporation, 2000 Millbrook Drive, Lincolnshire, IL 60069, USA Phone: 1-847-391-7000.

CLASS 1 LASER PRODUCT KLASSE 1 LASER PRODUKT LUOKAN 1 LASER LAITE KLASSE 1 LASER APPARAT CLASSE 1 PRODUIT LASER CAUTION: This Digital Video Disc Receiver employs a Laser System. To ensure proper use of this product, please read this owner's manual carefully and retain for future reference. Should the unit require maintenance, contact an authorized service 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 when open. **DO NOT STARE INTO BEAM. CAUTION:** The apparatus shall not be exposed to water, dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus. **NOTES ON COPYRIGHTS:** It is forbidden by law to copy, broadcast, show, broadcast via cable, play in public, or rent copyright material without permission. This product is equipped with copy protection measures developed by Macrovision.

Copy protection signals are recorded on some discs. When recording these discs on a VCR, picture noise will appear during playback. This product incorporates copyright protection technology that is protected by certain U.S. patent claims and other intellectual property rights owned by Macrovision Corporation and other rights owners. Use of this copyright protection technology must be authorized by Macrovision Corporation, and is intended for home and other limited viewing uses only unless otherwise authorized by Macrovision Corporation. Reverse engineering or disassembly is prohibited. **SERIAL NUMBER:** The serial number is found on the back of this unit. This number is unique to this unit and not available to others. You should record requested information here and retain this guide as a permanent record of your purchase.

Model No. DVT216 Serial No. _____ **CD-R/RW 2 IMPORTANT SAFETY INSTRUCTIONS INTRODUCTION**

CAUTION: PLEASE READ AND OBSERVE ALL WARNINGS AND INSTRUCTIONS IN THIS OWNER'S MANUAL AND THOSE MARKED ON THE UNIT. RETAIN THIS BOOKLET FOR FUTURE REFERENCE. This set has been designed and manufactured to assure personal safety. Improper use can result in electric shock or fire hazard. The safeguards incorporated in this unit will protect you if you observe the following procedures for installation, use, and servicing. This unit does not contain any parts that can be repaired by the user. **DO NOT REMOVE THE CABINET COVER, OR YOU MAY BE EXPOSED TO DANGEROUS VOLTAGE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL ONLY.**

1. Read these instructions. - All these safety and operating instructions should be read before the product is operated. Keep these instructions. - The safety, operating and use instructions should be retained for future reference.

Heed all warnings. - All warnings on the product and in the operating instructions should be adhered to. Follow all instructions. - All operating and use instructions should be followed. Do not use this apparatus near water.

For example: near a bath tub, wash bowl, kitchen sink, laundry tub, in a wet basement; or near a swimming pool; and like. Clean only with dry cloth. Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over- heating. The openings should never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet. 10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. 11. Only use attachments/accessories specified by the manufacturer. 2.

3. 4. 5. 6. 12.

Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 13. Unplug this apparatus during lightning storms or when unused for long periods of time. 14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 7. 8. 9. 3 Table of Contents Introduction Safety Precautions

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22 original shipping carton and packing materials come in handy. For maximum protection, re-pack the unit as it was originally packed at the factory. Setting a place for the unit The picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc. Notes on Discs Handling discs Do not touch the playback side of the disc. Hold the disc by the edges so that fingerprints will not get on the surface. Do not stick paper or tape on the disc. Storing discs Keeping the cabinet surface clean Do not use volatile liquids, such as insecticide spray, near the unit. Do not leave rubber of plastic products in contact with the unit for a long period of time. They will leave marks on the surface.

Installing Do not install the unit in a confined space, such as a bookcase or built-in cabinet. Allow adequate air circulation to prevent internal heat buildup. Do not place the unit on surfaces (rugs, blankets, etc.) or near materials (curtains, draperies) that may block the ventilation slots. Do not install the unit near heat sources such as radiators or air ducts, or in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.

Do not place heavy objects on the unit. After playing, store the disc in its case. Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car. Cleaning discs Fingerprints and dust on the disc can cause poor picture quality and sound distortion. Before playing, clean the disc with a clean cloth.

Wipe the disc from the center out. YES NO Cleaning the unit To clean the cabinet Use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents, such as alcohol, benzene, or thinner, as these might damage the surface of the unit. To obtain a clear picture The DVD receiver is a high-tech, precision device. If the optical pick-up lens and disc drive parts are dirty or worn down, the picture quality will be poor. Regular inspection and maintenance are recommended after every 1,000 hours of use. (This depends on the operating environment.) For details, please contact your nearest dealer. Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.

About Symbols About the symbol display " " may appear on the TV screen during operation. This icon means the function explained in this owner's manual is not available on that specific DVD video disc. About the disc symbols for instructions A section whose title has one of the following symbols is applicable only to the disc represented by the symbol. DVD DVD CD Audio CDs MP3 MP3 disc 6 Front Panel and Display Window SKIP/SEARCH (TUNING/SKIP) buttons STOP (MEMORY/CLEAR) button PAUSE button PLAY button OPEN/CLOSE button ENTER button VOLUME control MONO/STEREO button HEADPHONE Jack FM/AM button FUNCTION button POWER button and indicator Sound mode indicator Repeat playback mode indicators TUNED indicator SLEEP indicator PROGRAM indicator Chapter/Track number indicator Title number indicator PLAY/PAUSE indicator Angle icon indicator Disc indicator STEREO indicator MUTE indicator Total playing time/Elapsed time/Frequency/Delay time/Volume etc. indicators MEMORY indicator 7 INTRODUCTION Remote Control Buttons MUTE buttons FM/AM buttons POWER buttons CD/DVD buttons TEST TONE buttons OPEN/CLOSE buttons VIDEO 1-2 buttons · LEVEL buttons · DELAY buttons BY-PASS buttons NUMERICAL buttons SOUND MODE buttons DOLBY PROLOGIC II buttons REPEAT buttons MARKER buttons SEARCH buttons SLOW SCAN(+/-) buttons SET UP buttons ARROW buttons For use in highlighting a selection on a GUI menu screen, TITLE and MENU screen. ENTER buttons RETURN buttons SUBTITLE(S-TITLE) buttons · STOP buttons · Q PRESET -/+ (Q / R) buttons TITLE buttons Use the TITLE button to display the title screen included on DVD video discs.



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DIMMER buttons . . . PROGRAM buttons SLEEP buttons CLEAR buttons REPEAT A-B buttons VOLUME (+/-) buttons MENU buttons Use the MENU button to display the menu screen included on DVD video discs. AUDIO buttons ZOOM buttons DISPLAY buttons PAUSE buttons PLAY buttons SKIP () buttons / Press and hold button for about two seconds for search function. ANGLE buttons Remote Control Operation Range Point the remote control at the remote sensor and press the buttons. Distance: About 23 ft (7 m) from the front of the remote sensor Angle: About 30° in each direction of the front of the remote sensor Remote Control Battery installation Remove the battery cover on the rear of the remote control, and insert two R03 (size AAA) batteries with and aligned correctly.

Caution Do not mix old and new batteries. Never mix different types of batteries (standard, alkaline, etc.). 8 AAA AAA Rear Panel Overview FM 300 Antenna Connector VIDEO 1 (Input/Output) Connectors VIDEO 2 (Input) Connectors COMPONENT VIDEO OUT/PROGRESSIVE SCAN (Y Pb Pr) Connectors WOOFER OUT Jack SPEAKER Connectors POWER CORD Plug into a 120 Volt AC 60Hz Outlet only. S-VIDEO OUT Jack VIDEO OUT SELECTOR Switch Refer to explanation below**.

VIDEO SELECTOR Switch Refer to explanation below*. OPTICAL IN Jack MONITOR OUT Jack Dust Protection Cap Remove the dust protection cap from the OPTICAL DIGITAL OUT jack and connect the optical digital cable (not supplied) securely so that the configurations of both the cable and the connector match. Keep the dust protection cap and always reattach the cap when not using the connector to protect against dust intrusion. * VIDEO SELECTOR Switch You can enjoy NTSC or PAL discs by setting the VIDEO SELECTOR switch to choose the appropriate system. PAL: Select when DVD receiver is connected with PAL-TV.

NTSC: Select when DVD receiver is connected with NTSC-TV. AUTO: Select when DVD receiver is connected with Multi system TV. Dust protection cap - When the selected System Select switch does not coincide with the system of your TV, normal color picture may not be displayed. - Set System Select switch when the power is turned off. Caution Do not touch the inner pins of the jacks on the rear panel. Electrostatic discharge may cause permanent damage to the unit. Caution When you select the function mode VIDEO1 using the VIDEO1 button on the remote control, the signal is output from the front L/R speakers, but not from the VIDEO1 VIDEO OUT and AUDIO OUT L/R connectors. ** VIDEO OUT SELECTOR Switch Select either S-VIDEO OUT or COMPONENT/PROGRESSIVE SCAN VIDEO OUT, depending on how you connected the DVD Receiver to the TV. 9 INTRODUCTION AM Antenna Connectors Connections TV Connections Rear of TV S-VIDEO INPUT COMPONENT VIDEO INPUT AUDIO INPUT VIDEO INPUT S-Video connection 1 Pr Pb Y L R Connect the S-VIDEO OUT jack on the DVD Receiver to the S-Video in jack on the TV using an optional S-Video cable (S). L the Left and Right AUDIO 2 Connect(A) using the supplied audioOUTin jacks of on the DVD Receiver to the audio left/right jacks the TV cables.

Component Video (Color Stream®) connection S C A V 1 Connect the COMPONENT VIDEO OUT/PROGRESSIVE SCAN jacks on the DVD Receiver to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C). the Left and Right AUDIO 2 Connect(A) using the supplied audioOUTin jacks of on the DVD Receiver to the audio left/right jacks the TV cables. Progressive Scan (ColorStream® pro) connection If your television is a high-definition or "digital ready" television, you may take advantage of the DVD Player's progressive scan output for the highest video resolution possible. If your TV does not accept the Progressive Scan format, the picture will appear scrambled if you try Progressive Scan on the DVD Player. Make one of the following connections, depending on the capabilities of your existing equipment. When using the COMPONENT VIDEO OUT/PROGRESSIVE SCAN jacks, set the VIDEO OUT SELECTOR switch to COMPONENT/PROGRESSIVE. When using the S-VIDEO OUT jack, set the VIDEO OUT SELECTOR switch to S-VIDEO. ips Depending on your TV and other equipment you wish to connect, there are various ways you could connect the player. Use one of the connections described below. Please refer to the manuals of your TV, VCR, Stereo System or other devices as necessary to make the best connections.

Caution Make sure the DVD Receiver is connected directly to the TV. Select the correct AV input on your TV. Do not connect your DVD Receiver to TV via your VCR. The DVD image could be distorted by the copy protection system. 1 Connect the COMPONENT VIDEO OUT/ PROGRESSIVE SCAN jacks on the DVD Player to the corresponding in jacks on the TV using an optional Y Pb Pr cable (C).

the Left and Right AUDIO OUT jacks of 2 Connect(A) using the supplied left/right cables. on the DVD Player the audio in jacks the TV audio outs Set the Progressive to "On" on the setup menu for progressive signal, see page 17. Progressive scan does not work with the analog video connections (yellow VIDEO OUT jack). Video connection 1 Connect the MONITOR OUT jack on the DVD Receiver to the video in jack on the TV using the video cable supplied (V). the and Right AUDIO OUT jacks the 2 Connecting Left supplied audio cables.

jacks on the DVD Receiver to the audio left/right in TV (A) the 10 Connections (Cont'd) Optional Equipment Connections PREPARATION 11 Connect Connect Connect a TV (Monitor) to the MONITOR OUT or S-VIDEO OUT connector. a VCR to the VIDEO 1 jacks. an additional VCR to the VIDEO 2 jacks. the optical output of DVD Receiver (or Digital Device etc) to the OPTICAL IN connector. Additional VCR IN VIDEO OUT VIDEO VCR IN OUT AUDIO (L) AUDIO (L) To AUDIO/ VIDEO OUT AUDIO (R) AUDIO (R) To AUDIO/VIDEO OUT To AUDIO/ VIDEO IN To AUDIO/VIDEO IN (VIDEO 2) To AUDIO/ VIDEO OUT (VIDEO 1) To AUDIO/ VIDEO IN (VIDEO 1) OPTICAL DVD Player (or Digital Device, etc) outs When you select the VIDEO 1 function mode on remote, no video signal is output to the VIDEO 1 jack. If the audio format of the digital output does not match the capabilities of your receiver, the receiver will produce a strong, distorted sound or no sound at all. Antenna Connections Connect the supplied FM/AM antennas for listening to the radio. Connect the AM loop antenna to the AM antenna connector. Connector the FM wire antenna to the FM 300 antenna connector. FM wire antenna (supplied) AM loop antenna (supplied) outs To prevent noise pickup, keep the AM loop antenna away from the DVD Receiver and other components.

Be sure to fully extend the FM wire antenna. After connecting the FM wire antenna, keep it as horizontal as possible. Connections (Cont'd) Speaker System Connections Connect the speakers using the supplied speaker cords by matching the colors of the terminals and those of the cords.



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To obtain the best possible surround sound, adjust the speaker parameters (distance, level, etc.). Be sure to match the speaker cord to the appropriate terminal on the components: + to + and - to -. If the cords are reversed, the sound will be distorted and lack bass. If you use front speakers with low maximum input rating, adjust the volume carefully to avoid excessive volume output to the speakers. Do not disassemble the front covers of supplied speakers. If you feel there is a lack of full bass sound connect an active subwoofer to the WOOFER OUT connector using a mono audio cord (not supplied).

When you connect an active subwoofer, disconnect the subwoofer from the WOOFER speaker connector. **Speaker Positioning** In the case of normal position use the 6 speakers (2 front speakers, center speaker, 2 rear speakers and subwoofer). If you want to hear deeper bass sound, DTS digital surround or Dolby Digital surround, you should connect an optional active subwoofer (has its own built-in amplifier). · **Front speakers** According to your listening position set up the speakers for equal distance. And by hearing position set up the interval between speakers at 45 degree.

· **Center speaker** It is ideal that the center speakers and front speakers are same height. But normally place it above or below the television as shown below. **Center Speaker** · **Rear speakers** Place left and right behind the listening area. These speakers recreate sound motion and atmosphere required for surround playback. For best results, do not install the rear speakers too far behind the listening position, install them at or above the level of the listener's ears.

It is also effective to direct the rear speakers towards a wall or ceiling to further disperse the sound. In the case of a smaller room size, if the audience is near to the rear wall set the rear speakers opposite each other, and set the rear speakers 60 - 90 cm above the listener's ears. · **Subwoofer** This can be placed in any front position. **Front Speaker (Left) Rear Speaker (Left) Front Speaker (Right) Rear Speaker (Right) Speaker Positioning Example 12 Before Operation**
Mini Glossary for Sound Mode Allows you to enjoy 5.1 (or 6) discrete channels of high quality digital audio from DTS program sources bearing the trademark such as discs, DVD and compact discs, etc. DTS Digital Surround delivers up to 6 channels of transparent audio (which means identical to the original masters) and results in exceptional clarity throughout a true 360 degree sound field. The term DTS is a trademark of DTS Technology, LLC. Manufactured under license from DTS Technology, LLC. The Dolby Digital surround format lets you enjoy up to 5.1 channels of digital surround sound from a Dolby Digital program source.

If you play DVDs with " " mark, you can enjoy even better sound quality, greater spatial accuracy, and improved dynamic range. When playing recordings of live or classical music, this mode provides a feeling similar to actually being in a small concert hall. When playing recordings of live or classical music, this mode provides a feeling similar to actually being in a large concert hall. This mode provides a three dimensional effect similar to that of a movie theater. (II)

Dolby Pro Logic II creates five full-bandwidth output channels from two-channel sources. This is done using an advanced, high-purity matrix surround decoder that extracts the spatial properties of the original recording without adding any new sounds or tonal colorations. **EMULATION mode:** The Pro Logic Emulation mode offers users the same robust surround processing as original Pro Logic, in case the source content is not of optimum quality, or if there is a desire to hear the program more "as it used to be." When this mode is used, it is called Pro Logic, as before. There is no "Pro Logic I" mode. The Pro Logic emulation mode is optional.

Dolby does not require PLII products to use the original Pro Logic decoding algorithm. However, if the DSP contains the original Pro Logic code, and if the product maker would like to use it, this is quite acceptable and even encouraged. A product must not offer both original Pro Logic and the Pro Logic emulation mode. **MOVIE mode:** The Movie mode is for use with stereo television shows and all programs encoded in Dolby Surround. The result is enhanced soundfield directionality that approaches the quality of discrete 5.

1-channel sound. **MUSIC mode:** The Music mode is for use with any stereo music recordings, and provides a wide and deep sound space. The Music mode includes controls that allow the sound to be tailored to individual listening tastes. **VIRTUAL mode:** The Virtual mode is usually used when Pro Logic II is connected to a virtual process for speaker use. However, there might be some virtualizers for which this mode does not produce the intended result.

For those virtualizers, Movie mode may give the best surround effect. Virtual mode is designed to be used with the virtual process developed by Dolby Laboratories. The Pro Logic II mode should be called only "Pro Logic II" so the Virtual name can be reserved to describe the speaker virtualization process itself. **MATRIX mode:** The Matrix mode is the same as the Music mode except that the directional enhancement logic is turned off. It may be used to enhance mono signals by making them seem "larger." The Matrix mode may also find use in auto systems, where the fluctuations from poor FM stereo reception can otherwise cause disturbing surround signals from a logic decoder. The ultimate "cure" for poor FM stereo reception may be simply to force the audio to mono. **SURROUND OFF (2CH STEREO)** Outputs the sound from the front left and right speakers and subwoofer. Standard two channel (stereo) sources completely bypass the sound field processing. This allows you to play any source using only the front left and right speakers and subwoofer.

You can select SURROUND OFF by pressing BY-PASS on the remote control. **13 PREPARATION Before Operation (Cont'd) Sound Mode (Except AM)** You can enjoy surround sound simply by selecting one of the pre-programmed sound fields according to the program you want to listen to. **Note** When you play sound tracks with 96kHz sampling frequency, the output signals will be converted to 48kHz (sampling frequency). When PCM indicator is only displayed in the display window: Each time you press the SOUND MODE button, sound modes are selected in the following order; PRO LOGIC HALL1 HALL2 THEATER Sound Level You can set the sound level of the desired channel. 1 Press LEVEL. 2 Use / to select a desired speaker to set. Each time you press the / button, speakers are selected in the following order; The level indicator will appear in the display window. Each time you press button, the Pro Logic II sound mode is changed in the following order; PRO LOGIC EMULATION MOVIE MUSIC VIRTUAL MATRIX FL (Front Left) C (Center) FR (Front Right) SR (Surround Right) SL (Surround Left) SW (Subwoofer) FL (Front Left) · In the 2 channel stereo mode, you can only select the SW (Subwoofer).



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ip You can select SURROUND OFF (2CH STEREO) mode by pressing BY-PASS button. When DVD is inserted.

You can change the DVD sound mode of DVD (Dolby Digital, DTS, PRO LOGIC, etc) by pressing the AUDIO button on the remote during playback. Although the DVD contents differ from disc to disc, the following explains the basic operation when this feature is used. Each time you press the AUDIO button, the DVD sound modes are changed in the following order; and / to 3 Usechannel. adjust-the sound level of the selected (-6dB +6dB) 4 Repeat step 2-3 and adjust the sound level of the other channels. 5 If level settings are complete, press LEVEL.

Test Tone This function allows you can easily adjust the sound balance of the speakers from the listener's position. 1 Select the test tone mode by pressing TEST TONE. A hiss noise comes out for 2 seconds from each speakers in the following order; FL (Front Left) C (Center) FR (Front Right) SR (Surround Right) SL (Surround Left) SW (Subwoofer) FL (Front Left) When DVD is inserted and PRO LOGIC indicator lights. Each time you press the button, Pro Logic sound modes are selected in the following order; EMULATION MOVIE MUSIC VIRTUAL MATRIX can adjust the sound level operating 2 Youtest tone, first press LEVELduringpress / the then buttons, so that all speaker's sound level is same from the listener's position. During operating the test tone, if you adjust the sound level, it will be paused in the current speaker channel.

ip You can set PRO LOGIC mode to Off (2CH STEREO) by pressing BY-PASS button, the PRO LOGIC indicator disappears. 3 If setting is complete, press TEST TONE. For your reference The DVD Receiver memorizes the last mode settings for each source individually. You can identify the encoding format of program software by looking at its packaging. - Dolby Digital discs are labeled with the logo. - Dolby Surround encoded programs are labeled with the logo. - DTS Digital Surround discs are marked with DTS. 14 Before Operation (Cont'd) Speaker Sound Delay Time Setting In Dolby Digital or Dolby Pro Logic mode it is assumed that the distance from the listener to each of the speakers is equal. If not, then set the delay times of the center or rear speakers so that the sound will be heard simultaneously by the listener. The interval from the speakers to the listener.

If the distance from the listener to each speaker is the same, in the Dolby Digital and Dolby Pro Logic mode, the delay time of each speakers is as follows. In Dolby Digital mode Center delay time : 0 ms Rear delay time: 5 ms In Dolby Pro Logic mode Center delay time : cannot set Rear delay time : 15-30 ms If the rear delay time is set in Dolby Digital mode, in the Dolby Pro Logic mode, the delay time is set automatically. The delay time is 1 ms per 30 cm. If the center and rear speakers are further than the front speakers from the listener, the delay time will be at minimum. L (A) C DC DF SW DS SL SR (B) R Center delay time setting (Dolby Digital mode only) Setting the Delay Time in Dolby Digital and Dolby Pro Logic (II) mode 1 Press DELAY. The current surround delay time appears in the display window. You can select center delay time by pressing / in the Dolby Digital mode only. 2 Press / to change the delay time. 3 If setting is complete, press DELAY. ote You can adjust the center delay time only in the Dolby Digital mode and its delay time appears.

Center Width (MUSIC mode of Dolby Pro Logic II only) Surround delay time setting If the distance of DS is equal to or longer than the DF in the left figure, set the Surround Delay Time as 0 ms. Otherwise, change the setting according to the table below. Ex) If the distance from front speakers to the listener is 3 m and from rear speakers from the listener is 1.5 m, in the Dolby Digital mode, the rear delay time is 5 ms. 3 m (DF) - 1.

5 m (DS) = 1.5 m (B) 1.5 m (B) = 150 cm / 30 cm = 5 ms In Dolby Pro Logic II (Surround delay time): Emulation: 10 ~ 25 ms Movie: 10 ~ 25 ms Music: 0 ~ 15 ms Virtual: cannot set Matrix: 0 ~ 15 ms This control allows center-channel sounds to be positioned between the center speaker and the left/right speakers over a range of eight steps. Step "3" uses a combination of all three front speakers to give the best vocal imaging and most seamless soundstage presentation, and is recommended for most recordings. Step "0" places all center sound in the center speaker.

Step "7" places all center sound equally in the left/right speakers, just as in conventional stereo. DIMENSE (MUSIC mode of Dolby Pro Logic II only) This control allows the user to gradually adjust the soundfield either towards the front or the rear. This can be useful to help achieve the desired balance from all the speakers with certain recordings that may contain either too much or too little spatial effect. Step "0" is the recommended setting, which has no effect on the sound. Steps 1, 2, and 3 gradually move the sound forward, and steps 1, 2, and 3 move the sound towards the surrounds. PANORAMA (MUSIC mode of

Dolby Pro Logic II only) This control extends the front stereo image to include the surround speakers for an exciting "wraparound" effect with side-wall imaging. It is particularly effective for recordings which have strong left- or right-channel elements in the mix, as these are detected and accentuated by the Panorama process. 15 PREPARATION If the distance of DF is equal to the distance of DC in the figure shown above, set the Center Delay Time as 0 ms.

Otherwise, change the setting according to the following table. @@@@or the setting 3 Press (e.

g., to changebe also someof an item. The number buttons can be used for setting numbers title number). @@@@to 2 Press or itemselect an item. @@@@Shows the current subtitles language, and changes the setting. @@@@desired is selected, press 3 While the to selectitem desired setting., the then / ENTER to confirm 4 Press menu options requireyour steps. selection. Some additional SETUP, 5 Press menu. @@@@to 2 Press or itemselect an item. you set Progressive Scan to On in error, you must reset the unit.

Press STOP to stop any disc that is playing. @@@@This is the menu you see when you press SETUP. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan English Spanish French 17 PREPARATION 4:3 Letterbox: Select when a standard 4:3 TV is connected.

Displays theatrical images with masking bars above and below the picture. 4:3 Panscan: Select when a standard 4:3 TV is connected.

Displays pictures cropped to fill your TV screen. Either sides of the picture are cut off. 16:9 Wide: Select when a 16:9 wide TV is connected. Before Operation (Cont'd) Parental Control Rating DVD Country Code DVD Movies on DVDs may contain scenes not suitable for children. Therefore, discs may contain Parental Control information that applies to the complete disc or to certain scenes on the disc.



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These scenes are rated from 1 to 8, and alternatively, more suitable scenes are available for selection on some discs. Ratings are country dependent. The Parental Control feature allows you to prevent discs from being played by your children or to have certain discs played with alternative scenes. Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan 8 7 6 5 4 3 2 1 Unlock Change Enter the code of a country/area whose standards were used to rate the DVD video disc, referring to the list (See "Country Code List", page 30.). Disc Audio Disc Subtitle Disc Menu Rating Country Code TV Aspect Menu Language Progressive Scan Code Set US 1 Select "Rating" on the Setup menu using the and buttons. 2 While "Rating" is selected, press . have not entered a password 3 When you personal 4-digit security numerical yet; Enter 4-digit password using the buttons to create a password, then press ENTER. And enter the 4-digit password again and press ENTER to verify. When you have already entered a password; Enter a 4-digit password using the numerical buttons to confirm the personal 4-digit security password, then press ENTER.

If you make a mistake before pressing ENTER, press CLEAR and enter 4-digit security password again. Code using the 1 Select Country the setup menu. / buttons on 2 While Country Code is selected, press . 3 Follow step 3 of "Rating" on left. 4 Select the first character using the / buttons. the cursor using / 5 Shift second character using buttons and select the / buttons. confirm your 6 Press ENTER to press SETUP to country code selection, then exit the menu. ote Confirmation of the 4-digit password is necessary when the code is changed (see "Changing the 4-digit code" below). Changing the 4-digit code 1 Follow steps 1-2 as shown above to the left (Rating). 2 Enter the old code, then press ENTER. 3 Select Change using the ENTER. / buttons then press 4 Select a rating from 1 to 8 using the / buttons. One (1) has the least playback restrictions. Eight (8) has the most playback restrictions. Unlock: If you select Unlock, Parental Control is not active.

The disc will play in full. Ratings 1 to 8: Some discs contain scenes not suitable for children. If you set a rating for the player, all disc scenes with the same rating or lower will be played. Higher rated scenes will not be played unless an alternative scene is available on the disc. The alternative must have the same rating or a lower one.

If no suitable alternative is found, playback will stop. You must enter the 4-digit password or change the rating level in order to play the disc. 4 Enter the new 4-digit code, then press ENTER. 5 Enter exactly the same code a second time and verify by pressing ENTER. 6 Press SETUP to exit the menu. If you forget your 4-digit code If you forget your password, to clear the current password, follow the procedure below. 1 Press SETUP to display the setup menu. 2 Use the Number buttons to enter the 6-digit number "210499." The 4-digit password is cleared. ENTER to confirm rating 5 Presspress SETUP to exit your menu.

selection, then the 3 Enter a new code as shown above to the left (Rating). 18 Operation with Radio Presetting Radio Stations You can preset 30 stations for FM and AM. Before tuning, make sure that you have turned down the volume to the minimum. Listening to the Radio Preset radio stations in the DVD receiver's memory first (see "Presetting radio stations" on the left side). 1 Press FUNCTION on the front panel repeatedly or FM/AM on the remote control until FM or AM appear in the display window. 1 Press FM/AM until AM or FM appears in the display window. The last received station is tuned in. then every time you 2 And change alternately. press FM/AM, FM and AM TUNING/SKIP or Press 3 Press and hold indication starts to seconds until 2 preset PRESET on the front panel for about two station. the frequency change, then release.

Scanning stops when the DVD Receiver tunes in a station. "TUNED" and "STEREO" (for stereo program) appear in the display window. / repeatedly to select a Each time you press the button, the DVD receiver tunes in one preset station at a time. by rotating VOLUME the 3 Adjust the volume pressing VOLUME + or on the front panel or by remote control repeatedly. ote "Tuned" only appears when the signal is FM and stereo.

To turn off the radio Press POWER to turn the DVD receiver off or select another function mode (DVD/CD, VIDEO 1 or VIDEO 2). 4 Press MEMORY. TUNING/SKIP on the 5 Press panel to select or preset or front the number. 6 Press MEMORY again. 7 Repeat steps 3 to 6 to store other stations. A preset number will flash in the display window. The station is stored. To listen to non-preset radio stations Use manual or automatic tuning in step 2. For manual tuning, press TUNING/SKIP on the front panel repeatedly. or For automatic tuning, press and hold TUNING/SKIP or for about two seconds on the front panel. For your reference If an FM program is noisy Press MONO/ST. on the front panel so that "STEREO" disappears in the display window. There will be no stereo effect, but the reception will improve. Press the button again to restore the stereo effect. To improve reception Realign the antenna.

To tune in a station with a weak signal Press TUNING/SKIP or or step 3 to tune in the station manually. repeatedly in To clear all the memorized stations Press and hold MEMORY for about three seconds and "CLEAR ALL" appears in the display window and then press MEMORY again, the stations are cleared. ote If all stations have already been entered, FULL message will appear in the display window for a moment and then a preset number will flash. To change the preset number, follow the steps 5-6 as above. 19 OPERATION Operation with Radio (Cont'd) Sleep Timer Setting You can set the DVD receiver to turn off automatically at a specified time. Selecting Input Source You can use VCRs or other units connected to the VIDEO1, VIDEO2 connectors or Optical connector. Refer to the owner's manual supplied with the unit for further information on the operation. Press VIDEO1 or VIDEO2 repeatedly on the remote control to select the desired input source. Each time you press this button, the mode of the function changes in the following sequence: VIDEO1 ANA: for selecting the analog signal from VIDEO1 AUDIO IN (L/R) & VIDEO IN Connectors. VIDEO1 DIG: for selecting the digital signal from OPTICAL IN Connector.

1 Press SLEEP to set the desired sleep time. The SLEEP indicator and sleep time appears in the display window. 2 Each time you press SLEEP the setting changes in the following order. SLEEP 120 90 60 50 40 30 20 10 OFF otes You can check the time remaining before the DVD receiver turns off. Press SLEEP.

The remaining time appears in the display window. VIDEO2 ANA: for selecting the analog signal from VIDEO2 AUDIO IN (L/R) & VIDEO IN Connectors.



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VIDEO2 DIG: for selecting the digital signal from OPTICAL IN Connector. Dimmer This function will appear in the display window and volume LED in power-on status. Press the DIMMER repeatedly.

ote The Optical input function is available only when the other unit's Sampling Frequency is 32 ~ 48kHz. Mute Press MUTE to turn off the sound, press again to restore. For example, you can mute your unit to answer the telephone, "MUTE" indicator flashes in the display window. Using Headphone Jack Connect a stereo headphone plug (3.5mm) into the PHONES connector. The speakers are automatically disconnected when you plug in headphones (not supplied). 20

Operation with DVD Playing a DVD Getting to play DVD General Features **ote** Unless stated, all operations described are based on remote control use. Some operations can be carried out using the setup menu. Moving to another TITLE 1/3 DVD 1 label 2 Load your chosen disc in the tray, with the sure facing up. When a double-sided DVD inserted, make the side you want to play is facing up.

OPEN/CLOSE the tray. 3 Press automatically. onto closescreen, not start, READING appears the TV and playback starts If playback does press PLAY. In some cases, the disc menu might appear instead. Press OPEN/CLOSE to open the disc tray. When a disc has more than one title, you can move to another title as follows: Press DISPLAY when playback is stopped, then press the appropriate numerical button (0-9) to select a title number. Moving to another CHAPTER/TRACK DVD 1/12 1/3 When the menu screen is displayed The menu screen may be displayed first after loading a DVD which contains a menu. DVD Use the buttons to select the title/chapter you want to view, then press ENTER to start playback. Press TITLE or MENU to return to the menu screen. **otes** If Parental Control is set and the disc is not within the Rating settings (not authorized), the 4-digit code must be entered and/or the disc must be authorized (see "Parental Control", on page 18).

DVDs may have a region code. Your player will not play discs that have a region code different from your player. The region code for this player is 1 (one). When a title on a disc has more than one chapter or a disc has more than one track, you can move to another chapter/track as follows: Press SKIP . or > briefly during playback to select the next chapter/track or to return to the beginning of the current chapter/track. Press . twice briefly to step back to the previous chapter/track. To go directly to any chapter during DVD playback, press DISPLAY. Then, press / to select C (chapter). Then, enter the chapter/track number using the numerical buttons (0-9).

ote For two-digit numbers, press the buttons in rapid succession. Slow Motion DVD 1 Press SLOW SCAN + or - during playback. The player will enter SLOW mode. 2 Use the SLOW SCAN + or - to select the required speed: t 1/16, t 1/8, t 1/4 or t 1/2 (backward), or T 1/16, T 1/8, T 1/4 or T 1/2 (forward). 3 To exit slow motion mode, press PLAY. 21 OPERATION Switch on the TV and select the AV input source connected to the DVD receiver. When you want to enjoy the sound of discs or from the audio system, turn on the audio system and select the input source connected to the DVD receiver. Operation with DVD General Features (cont'd) Still Picture and Frame-by-Frame Playback DVD Repeat A-B A * A B DVD OFF To repeat a sequence in a title: 1 Press REPEAT A-B at your chosen starting point. A- appears briefly on the TV screen. 1 Press PAUSE during playback.

The player will now go into PAUSE mode. 2 You can advance the picture frame by frame by pressing PAUSE repeatedly on the remote control. 2 Press REPEAT A-B again at your chosen end point. A-B appears briefly on the TV screen, and the repeat sequence begins (a-b repeat appears on the player's display). Search DVD 3 To cancel the sequence, press REPEAT A-B. 1 Press and hold SKIP . or > for about two seconds during playback. The player will now go into SEARCH mode. Time Search DVD 0:16:57 -:-:- 2 Press and hold SKIP . or > repeatedly to select the required speed: mX2, mX4, mX16, mX100 (backward) or MX2, MX4, MX16, MX100 (forward).

3 To exit SEARCH mode, press PLAY. The Time Search function allows you to start playing at any chosen time on the disc. 1 Press DISPLAY during playback. The on-screen display appears on the screen. The Time Search box shows the elapsed playing time of the current disc. Repeat CHAPT DVD TITLE TRACK 2 Within 10 seconds, press / to select the Time Search icon in the on-screen display. The "-:-:-" appears in the Time Search box. DVD Video Discs - Repeat Chapter/Title/Off 1 To repeat the currently playing chapter, press REPEAT. The Repeat Chapter icon appears on the TV screen. 3 Within 10 seconds, use the numerical buttons to enter the required start time.

Enter hours, minutes and seconds from left to right in the box. If you enter the wrong numbers, press CLEAR to remove the numbers you entered. Then enter the correct numbers. 2 To repeat the title currently playing, press REPEAT a second time. The Repeat Title icon appears on the TV screen. 4 Within 10 seconds, press ENTER to confirm the start time. Playback starts from the selected time on the disc. If you enter an invalid time, playback will continue from the current point. 3 To exit Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the TV screen.

22 Operation with DVD General Features (cont'd) Zoom DVD Special DVD Features DVD 1 Press ZOOM during playback or still playback to activate the Zoom function. If you press ZOOM repeatedly, the magnification level increases up to six times. 2 Use the zoomed picture. buttons to move through the DVDs may contain menus that allow you to access special features. To use the disc menu, press MENU. Then, use the appropriate numerical button to select an option. Or, use the buttons to highlight your selection, then press ENTER. 3 Press CLEAR to resume normal playback or return to the paused image. **otes** The zoom function may not work for some DVDs. The zoom function may not work on multi-angle scenes.

Title Menu 1 Press TITLE. DVD If the current title has a menu, the menu will appear on the screen. Otherwise, the disc menu may appear. 2 The menu can list camera angles, spoken language and subtitle options, and chapters for the title. 3 To remove the title menu, press TITLE again.

Marker Search 1/9 DVD MARKER SEARCH Disc Menu 1 Press MENU. DVD You can start playback from a memorized point. Up to nine points can be memorized. To enter a mark, follow these steps. 1 During disc playback, press MARKER when playback reaches the spot that you want to memorize. The Marker icon will appear on the TV screen briefly. The disc menu is displayed. 2 To remove the disc menu, press MENU again. Camera Angle DVD 1/1 2 Repeat step 1 to enter up to nine Marker points on a disc.



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To Recall a Marked Scene 1 During disc playback, press SEARCH. The MARKER SEARCH menu will appear on the screen. If the disc contains sequences recorded from different camera angles, the angle icon blinks on the display. You can then change the camera angle if you wish. Press ANGLE repeatedly during playback to select a desired angle. The number of the current angle appears on the display.

Changing the Audio Language 1 ENG D 6 CH DVD 2 Within 10 seconds, press / to select a Marker number that you want to recall. 3 Press ENTER. Playback will start from the Marked scene. 4 To remove the MARKER SEARCH menu, press SEARCH. To clear a Marked Scene 1 During disc playback, press SEARCH. The MARKER SEARCH menu will appear on the screen. Press AUDIO repeatedly during playback to hear a different audio language or audio track. Subtitles DVD 1 ENG Press S-TITLE repeatedly during playback to see the different subtitle languages. ote appears, the feature is not available on the disc. 2 Use / to select the Marker number that you want to erase.

3 Press CLEAR. The Marker number will be erased from the list. If 4 Repeat steps 2 and 3 to erase additional Marker numbers. 5 To remove the MARKER SEARCH menu, press SEARCH. 23 OPERATION The Zoom function allows you to enlarge the video image and to move through the enlarged image.

Checking the contents of DVD Video discs: Menus Operation with Audio CD and MP3 Disc Playing an Audio CD and MP3 disc The DVD Receiver can play MP3 format recordings on CD-ROM, CD-R or CD-RW discs. Before playing MP3 recordings, read the notes of MP3 Recordings on page 26. Search CD 1 Press and hold SKIP . or > for about two seconds during playback. The player will now go into SEARCH mode.

1 CD Insert a disc and close the tray. The menu appears on the TV screen. Program MP3 TRACK 1.MP3 TRACK 2.MP3 TRACK 3.MP3 TRACK 4.MP3 TRACK 5.MP3 TRACK 6.MP3 TRACK 7.MP3 Clear All STER.

TRACK 8.MP3 00:00 1 Clear All OFF 2 Press and hold SKIP . or > repeatedly to select the required speed: mX2, mX4, mX8 (backward) or MX2, MX4, MX8 (forward). 3 Search speed and direction are indicated on the menu screen. 4 To exit SEARCH mode, press PLAY. ote The sound is muted during SEARCH mode. Program TRACK 1 TRACK 2 TRACK 3 TRACK 4 TRACK 5 TRACK 6 TRACK 7 TRACK 8 0:56:35 Audio CD menu MP3 menu Repeat A-B CD 2 Use / to select a track then press PLAY. Playback starts. During playback, the current track's elapsed playing time will appear on the display. Playback will stop at the end of the disc.

To repeat a sequence. 1 During disc playback, press REPEAT A-B at your chosen starting point. The Repeat icon and "A -" appears on the menu screen. 3 To stop playback at any other time, press STOP. Pause CD MP3 2 Press REPEAT A-B again at your chosen end point.

The Repeat icon and "A B" appears on the menu screen, and the sequence begins to play repeatedly. 3 To exit the sequence and return to normal play, press REPEAT A-B again. The Repeat icon and "OFF" appears on the menu screen. 1 Press PAUSE during playback. 2 To return to playback, press PLAY or press PAUSE again.

Changing the Audio Channel CD Moving to another Track CD MP3 Press AUDIO repeatedly during playback to hear a different audio channel (STEREO, LEFT or RIGHT). Press SKIP . or > briefly during playback to go to the next track or to return to the beginning of the current track. Press SKIP . twice briefly to step back to the previous track. In case of audio CD, to go directly to any track, enter the track number using the numerical buttons (0-9) during playback. Repeat TRACK/ALL/OFF CD MP3 1 To repeat the track currently playing, press REPEAT. The Repeat Track icon appears on the menu screen. 2 To repeat all tracks of disc in the unit, press REPEAT a second time. The Repeat All icon appears on the menu screen.

3 To exit Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the menu screen. 24 Programmed Playback and MP3 Disc CD MP3 Programmed Playback with Audio CD Program allows you to store your favorite tracks for a particular disc in the player memory. Program can contain 32 tracks (Audio CD) or 60 tracks (MP3 disc). Repeat Programmed Tracks To repeat the track currently playing, press REPEAT. The Repeat Track icon appears on the menu screen. The Repeat All icon appears on the menu screen. To exit Repeat mode, press REPEAT a third time. The Repeat Off icon appears on the menu screen. 1 Insert the disc and close the tray.

PROGRAM 2 Press to enter the during playback or in the stop mode Program Edit mode. The menu is displayed on the TV screen. The E mark will appear to the right of the word Program on the right side of the menu screen. Erasing a Track from Program List 1 Press PROGRAM during playback or in the stop mode to enter the Program Edit mode. The E mark will appear.

ote Press PROGRAM to exit the Program Edit mode; the E mark will disappear. 2 Press to move to the Program list. 3 Use / to select the track that you wish to erase from the Program list. 4 Press CLEAR. The track will be erased from the Program list.

Erasing the Complete Program List 3 4 Repeat step 3 to place additional tracks on the Program list. Audio CD menu CD TRACK 1 TRACK 2 TRACK 3 TRACK 4 TRACK 5 TRACK 6 TRACK 7 TRACK 8 0:56:35 STER. Clear All Use / to select a track then press ENTER to place the selected track on the Program list. 1 Follow steps 1-2 of "Erasing a Track from Program List" as above. 2 Use / to select "Clear All", then press ENTER. The complete Program for the disc will be erased. The programs are also cleared when the disc is removed. MP3 menu E Program TRACK 12 TRACK 8 TRACK 10 TRACK 3 MP3 TRACK 1.MP3 TRACK 2.MP3 TRACK 3.

MP3 TRACK 4.MP3 TRACK 5.MP3 TRACK 6.MP3 TRACK 7.MP3 TRACK 8.MP3 00:00 1 Program TRACK 8.MP3 TRACK 2.MP3 TRACK 4.MP3 TRACK 3.MP3 E To resume normal playback from programmed playback Press and hold PROGRAM for 3 seconds until "PROGRAM" indicator disappears in the display window.

Clear All OFF 5 Press . The programmed track you selected last is highlighted on the program list. 6 Use / to select the track you want to start playing. Press TITLE to move to the next page. Press MENU to move to the previous page.

7 Press PLAY to start. Playback begins in the order in which you programmed the tracks and "PROGRAM" appears on the menu screen. Playback stops after all of the tracks on the Program list have played once. 25 OPERATION To repeat all tracks of program list, press REPEAT a second time. Additional Information Last Condition Memory DVD CD Notes on MP3 Discs About MP3 An MP3 file is audio data compressed by using MPEG1, the audio layer-3 file-coding scheme.

We call files that have the ".mp3" file extension "MP3 files". The player can not read an MP3 file that has a file extension other than ".



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mp3". The player can not read a fake MP3 file that has a file extension ".mp3". This player memorizes the last condition for the last disc you have watched. Settings remain in memory even if you remove the disc from the player or switch off the player. If you load a disc that has its settings memorized, the latest stop position is automatically recalled. otes Settings are stored in memory for use any time.

This player does not memorize settings of a disc if you switch off the player before playing the disc. MP3 disc compatible with this player is limited as follows: Sampling Frequency / only at 44.1kHz Bit rate / within 96 - 192kbps CD-R physical format should be "ISO 9660" If you record MP3 files using the software which cannot create a FILE SYSTEM, for example "DirectCD" etc., it is impossible to playback MP3 files. We therefore recommend that you use "Easy-CD Creator", which creates an ISO9660 file system. 5. A single session disc requires MP3 files in the first track. If there is no MP3 file in the 1st track, it cannot playback MP3 files. If you wish to playback MP3 files, format all the data in the disc or use a new one. 6.

We do not recommend using CD-RW discs. Please use finished CD-R discs only. 7. File names should be named using 8 letters or less and must incorporate ".mp3" extension e.

g. "*****.MP3". 8. Do not use special letters such as "_?!><+*}{ [@] ; / V.

," etc. 9. Total number of files on the disc should be less than 200. 10. Use 74 minute CD-R discs (650M), Do not use 80 minute CD-R (700M) software This DVD receiver requires discs/recordings to meet certain technical standards in order to achieve optimal playback quality. Pre-recorded DVDs are automatically set to these standards. There are many different types of recordable disc formats (including CD-R containing MP3 files). Customers should also note that permission is required in order to download MP3 files and music from the Internet. Our company has no right to grant such permission. Permission should always be sought from the copyright owner.

1. 2. 3. 4. Screen Saver DVD The screen saver picture appears when you leave the DVD Receiver in stop mode for about five minutes. Video Mode Setting DVD With certain discs, the playback picture may be flickering or Dot Crawl is shown on straight lines. That means Vertical interpolation or De-interlace is not perfectly matched with the disc. In that case, the picture quality can be improved with changing video mode. To change the video mode, press and hold DISPLAY for 3 seconds during playback of a disc. Changed video mode number is displayed on the TV screen.

Check whether video quality is improved. You can repeat above procedure until desired picture quality appears. Procedure of video mode is changed; MODE1 MODE2 MODE3 MODE4 MODE5 MODE1 If you turn the power off, the video mode will revert back to initial state (MODE1). 26 Troubleshooting Check the following guide for the possible cause of a problem before contacting service. Symptom No power.

The power is on, but the DVD receiver does not work. No picture. Cause · The power cord is disconnected. · No disc is inserted. Correction · Insert a disc. (Check that the DVD or, audio CD indicator in the DVD display is lit.) · Select the appropriate video input mode on the TV so the picture from the DVD receiver appears on the TV screen. · Connect the video cable into the jacks securely. · Turn on the TV. · Select the correct input mode of the audio receiver so you can listen to the sound from the DVD receiver. · Connect the audio cable into the jacks securely. · Turn on the equipment connected with the audio cable. · Replace it with new one. · Clean the disc. · Insert a disc.

(Check that the DVD, or audio CD indicator in the DVD display is lit.) · Insert a playable disc. (Check the disc type, color system and Regional code.) · Place the disc with the playback side down. · Place the disc on the disc tray correctly inside the guide. · Clean the disc. · Press the SET-UP button to turn off the menu screen. · Cancel the Rating function or change the rating level. · Wipe them with a cloth slightly moistened with alcohol. · Clean the disc. · Connect the speakers and components securely. · Move your TV away from the audio components. · The TV is not set to receive DVD signal output. · The video cable is not connected securely. · The connected TV power is turned off.

There is no sound or only a very low-level sound is heard. · The equipment connected with the audio cable is not set to receive DVD signal output. · The audio cables are not connected securely. · The power of the equipment connected with the audio cable is turned off. · The audio connecting cord is damaged. The playback picture is poor. The DVD receiver does not start playback. · The disc is dirty. · No disc is inserted. · An unplayable disc is inserted. · The disc is placed upside down. · The disc is not placed within the guide. · The disc is dirty. · A menu is on the TV screen. · The Rating level is set.

Severe hum or noise is heard. · The plugs and jacks are dirty. · The disc is dirty. · The speakers and components are connected poorly. · The DVD receiver is located too close to the TV. 27 REFERENCE · Plug the power cord into the wall outlet securely. Troubleshooting (Cont'd) Symptom Recording is not possible Cause · The components are connected incorrectly. · The source is selected incorrectly. Correction · Connect the components correctly. · Select the source with FUNCTION button (CD/DVD, VIDEO 1, VIDEO 2 or Tuner).

· Connect the antenna securely. · Adjust the antennas and connect an external antenna if necessary. @@@@ The remote control does not work properly. @@ · The remote control is too far from the DVD receiver. @@ · The batteries in the remote control are exhausted. · Tune in the station manually. Radio stations cannot be tuned in. · The antenna is positioned or connected poorly. · Preset the stations (page 19). · Point the remote control at the DVD receiver remote sensor.

· Operate the remote control within about 23 ft (7 m). · Remove the obstacle. · Replace the batteries with new ones. 28 Language Code List Enter the appropriate code number for the initial settings "Disc Audio", "Disc Subtitle" and/or "Disc Menu" (See page 17). Code 6565 6566 6570 6577 6582 6583 6588 6590 6665 6669 6671 6672 6678 6679 6682 6765 6779 6783 6789 6865 6869 6890 6976 6978 6979 6983 6984 6985 7065 7073 7074 Language Afar Abkhazian Afrikaans Ameharic Arabic Assamese Aymara Azerbaijani Bashkir Byelorussian Bulgarian Bihari Bengali; Bangla Tibetan Breton Catalan Corsican Czech Welsh Danish German Bhutani Greek English Esperanto Spanish Estonian Basque Persian Finnish Fijian Code 7079 7082 7089 7165 7168 7176 7178 7185 7265 7273 7282 7285 7289 7365 7378 7383 7384 7387 7465 7473 7487 7565 7575 7576 7577 7578 7579 7583 7585 7589 7665 Language Faroese French Frisian Irish Scots Gaelic Galician Guarani Gujarati Hausa Hindi Croatian Hungarian Armenian Interlingua Indonesian Icelandic Italian Hebrew Japanese Yiddish Javanese Georgian Kazakh Greenlandic Cambodian Kannada Korean Kashmiri Kurdish Kirghiz Latin Code 7678 7679 7684 7686 7771 7773 7775 7776 7778 7779 7782 7783 7784 7789 7865 7869 7876 7879 7982 8065 8076 8083 8084 8185 8277 8279 8285 8365 8368 8372 8373

Language Lingala Laothian Lithuanian Latvian, Lettish Malagasy Maori Macedonian Malayalam Mongolian Moldavian Marathi Malay Maltese Burmese Nauru Nepali Dutch Norwegian Oriya Panjabi Polish Pashto, Pushto Portuguese Quechua Rhaeto-Romance Rumanian Russian Sanskrit Sindhi Serbo-Croatian Singhalese Code 8375 8376 8377 8378 8379 8381 8382 8385 8386 8387 8465 8469 8471 8472 8473 8475 8476 8479 8482 8484 8487 8575 8582 8590 8673 8679 8779 8872 8979 9072 9085 Language Slovak Slovenian Samoan Shona Somali Albanian Serbian Sudanese Swedish Swahili Tamil Telugu Tajik Thai Tigrinya Turkmen Tagalog Tonga Turkish Tatar Twi Ukrainian Urdu Uzbek Vietnamese Volapük Wolof Xhosa Yoruba Chinese Zulu 29

REFERENCE Country Code List Enter the appropriate code number for the initial setting "Country Code" (See page 18).

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