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You can read the recommendations in the user guide, the technical guide or the installation guide for PIONEER AVH-2450BT. You'll find the answers to all your questions on the PIONEER AVH-2450BT in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PIONEER AVH-2450BT
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Pioneer

Owner's Manual

DVD RDS AV RECEIVER

AVH-P4450BT
AVH-P3450DVD
AVH-2450BT
AVH-1450DVD



DivX



English



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Manual abstract:

1 Read this manual fully and carefully before operating your display. 2 Keep this manual handy as a reference for operating procedures and safety information. 3 Pay close attention to all warnings in this manual and follow the instructions carefully. @@@@ @@@@ If you experience difficulty in operating the system or reading the display, park your vehicle in a safe location and make necessary adjustments. 7 Please remember to wear your seat belt at all times while operating your vehicle. If you are ever in an accident, your injuries can be considerably more severe if your seat belt is not properly buckled. 8 Never use headphones while driving. 9 To promote safety, certain functions are disabled unless the parking brake is on, and the vehicle is not in motion. 10 Never set the volume of your display so high that you cannot hear outside traffic and emergency vehicles. **WARNING** Do not attempt to install or service your display by yourself.

Installation or servicing of the display by persons without training and experience in electronic equipment and automotive accessories may be dangerous and could expose you to the risk of electric shock or other hazards. To avoid the risk of damage and injury and the potential violation of applicable laws, this unit is not for use with a video screen that is visible to the driver. ! To avoid the risk of accident and the potential violation of applicable laws, no viewing of front seat video should ever occur while the vehicle is being driven. Also, rear displays should not be in a location where they are visibly distracting to the driver. !

In some countries or states the viewing of images on a display inside a vehicle even by persons other than the driver may be illegal.

Where such regulations apply, they must be obeyed and this unit's DVD features should not be used. When you attempt to watch a video image while driving, the warning "Viewing of front seat video source while driving is strictly prohibited." will appear on the front display. To watch a video image on the front display, park your vehicle in a safe place and apply the parking brake. 4 En Section Precautions When using a display connected to V OUT Passengers in the rear seat can also watch DVDs or the TV if you connect this unit to a display using the V OUT.

Turns to its initial condition. We recommend that you transcribe the audio adjustment data. 01 Precautions **WARNING** Do not use with vehicles that do not feature an ACC position. **WARNING NEVER** install the rear display in a location where the driver can watch a DVD or TV while driving. When using the rear view camera With an optional rear view camera, this unit can be used as an aid to keep an eye on trailers, or when backing into a tight parking spot. The rear view camera function is to be used as an aid to keep an eye on trailers, or while backing up. Do not use for entertainment purposes. ! Please note that the edges of the rear view camera images may differ slightly according to whether full screen images are displayed when backing up, and whether the images are used for checking the rear when the vehicle is moving forward. To avoid battery exhaustion Keep the vehicle engine running when using this unit to avoid draining the battery power. ! When no power is supplied to this unit, such as when the vehicle battery is being replaced, the microcomputer of this unit re-En

5 Section 02 Before you start About this unit **CAUTION** This product is a class 1 laser product classified under the Safety of laser products, IEC 60825-1:2007, and contains a class 1M laser module.

To ensure continued safety, do not remove any covers or attempt to gain access to the inside of the product. refer all servicing to qualified personnel. DVD video disc region numbers Only DVD video discs with compatible region numbers can be played on this player. You can find the region number of the player on the bottom of this unit and in this manual (refer to Specifications on page 109). Operating environment This unit should be used within the temperature ranges shown below. Should this product fail to operate properly, please contact your dealer or nearest authorized Pioneer Service Station. Demo mode The feature demo automatically starts when you select Off for the source and continues while the ignition switch is set to ACC or ON. Operating the feature demo while the car engine is turned off it may drain the battery power. Important Failure to connect the red lead (ACC) of this unit to a terminal coupled with ignition switch on/off operations may lead to battery drain. **CAUTION !** Do not allow this unit to come into contact with liquids.

electrical shock could result. Also, damage to this unit, smoke, and overheating could result from contact with liquids. ! Keep this manual handy for future reference. ! Always keep the volume low enough to hear outside sounds. If the battery is disconnected or discharged, any preset memory will be erased. 6 En Section Before you start Adjusting the response positions of the touch panels (Touch Panel Calibration) If you feel that the touch panel keys on the screen deviate from the actual positions that respond to your touch, adjust the response positions of the touch panel. Refer to Adjusting the response positions of the touch panels (Touch Panel Calibration) on page 74. ! Do not store the battery with metallic objects. ! If the battery leaks, wipe the remote control completely clean and install a new battery. ! When disposing of used batteries, comply with governmental regulations or environmental public institutions' rules that apply in your country/area.

02 Before you start Using the remote control Point the remote control in the direction of the front panel to operate. ! The remote control may not function properly in direct sunlight. important ! Do not store the remote control in high temperatures or direct sunlight. ! Do not let the remote control fall onto the floor, where it may become jammed under the brake or accelerator pedal. Use and care of the remote control Installing the battery Slide the tray on the back of the remote control out and insert the battery with the plus (+) and minus (-) poles aligned properly. ! When using for the first time, pull out the film protruding from the tray. **wARNING !** Keep the battery out of the reach of children. Batteries (battery pack or batteries installed) must not be exposed to excessive heat such as sunshine, fire or the like. Remove the battery if the remote control is not used for a month or longer. ! There is a danger of explosion if the battery is incorrectly replaced.

Replace only with the same or equivalent type. ! Do not handle the battery with metallic tools. En 7 Section 03 What's what Head unit (AVH-P4450BT/AVH-P3450DVD) 5 MODE Turning the information display off. (AVH-2450BT/AVH-1450DVD) Use an optional Pioneer USB cable (CD-U50E) to connect the USB audio player/USB memory as any device connected directly to the unit will protrude out from the unit and may be dangerous.



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Press to change the fast forward speed. Press to return to the previous track (chapter). Press to go to the next track (chapter). Press to stop playback. If you resume playback, playback will start from the point where you stopped. Touch the key again to stop playback completely.

Press to select the tuner band when tuner is selected as a source. Also used to cancel the control mode of functions. Press to switch between modes when playing discs and USB storage devices with compressed audio and audio data (CDDA) such as CDEXTRA and MIXEDMODE CDs. 03 What's what m 3 7 1 2 3 n 6 5 3 o p 4 Part 1 Thumb pad Operation Use to select a menu on the DVD menu. Press to display the PBC (playback control) menu during PBC playback. 4 g 2 RETURN a/b(FOLDER/P. CH settings/lists (AVH-P4450BT/AVH-2450BT) Starting the Bluetooth telephone menu. En 13 Section 04 Basic operations Displaying still images as a slideshow when listening to another source. You cannot view slideshows when DVD or USB source is selected.) CAUTION Keep hands and fingers clear of the unit when opening, closing, or adjusting the LCD panel.

Be especially cautious of children' page 32. Returning to the top menu during DVD playback. stopping playback. If you resume playback, playback will start from the point where you stopped. Touch the key again to stop playback completely. Displaying arrow keys to operate the DVD menu. Refer to Using the arrow keys on page 32. Returning to the specified scene to which the DVD currently being played has been preprogrammed to return. Refer to Return to the specified scene on page 36. Playing the video on your iPod in a random order.

refer to Random play (shuffle) on page 33. Conducting operation from your iPod and listening to it using your car's speakers. Refer to Operating this unit's iPod function from your iPod on page 32. switching between media file types. Refer to Switching the media file type on page 32. G Speeding down the playback speed in four steps, during slow motion playback on DVD video/Video CD. Moving ahead one frame at a time during playback. refer to Frame-by-frame playback on page 35. Touch and hold for more than two seconds to slow down playback speed. Speeding up the playback speed in four steps during slow motion playback on DVD video/Video CD.

H Playing back videos 1 Insert the disc into the disc loading slot with the label side up. If you are playing a DVD or Video CD, a menu may appear. When the automatic playback function is on, the unit will skip the DVD menu and automatically start playback from the first chapter of the first title. While an iPod is connected to this unit, PIONEER, Accessory Attached or (check mark) is displayed on the iPod. ! When the source icon is not displayed, it can be displayed by touching the screen.

! Disconnect headphones from the iPod before connecting it to this unit. ! Depending on the iPod model and the amount of data stored in the iPod, it may take some time for playback to begin. ! Use the touch panel keys to select the iPod after connecting it to this unit. ! No Device is displayed when disconnecting the iPod. ! If a message is displayed after loading a disc containing DivX VOD content, touch Play.

18 En Section Playing moving images Selecting a chapter using the buttons 1 Press c or d (TRK). Fast forward/fast reverse may not always be possible on some discs. The fast forward/fast reverse speed depends on the length of time you press and hold down c or d (TRK). This function is not available for Video CD. 06 Playing moving images Notes ! This DVD player can play back a DivX file recorded on CD-R/RW, DVD-R/RW, or MPEG-1/ MPEG-2/MPEG-4.

(Please see the following section for files that can be played back. Do not insert anything other than a DVD-R/ RW or CD-R/RW into the disc loading slot. ! If the bookmark function is on, DVD playback resumes from the selected point. Some operations may not be available while watching a media due to the programming of the disc. In such cases, the icon appears on the screen.

! To ensure proper operation, connect the dock connector cable from the iPod directly to this unit. ! While the iPod is connected to this unit, the iPod cannot be turned on or off. ! Touch panel keys not listed under Introduction of video playback operations may appear on the display. refer to Indicator list on page 98. En 19 Section 07 Playing audio Introduction of sound playback operations You can listen to DVD-R/DVD-RW/CD/CD-R/ CD-RW/USB/iPod sound files.

Depending on the Bluetooth audio player connected to this unit, the available operations will be limited to the following two levels: -- A2DP profile (Advanced Audio Distribution Profile): You can only playback songs on your audio player. Since there are a number of Bluetooth audio players available on the market, available operations will vary extensively. When operating your player with this unit, refer to the instruction manual that came with your Bluetooth audio player as well as this manual. ! As the signal from your cellular phone may cause noise, avoid using it when you are listening to songs on your Bluetooth audio player. ! When a call is in progress on the cellular phone connected to this unit via Bluetooth wireless technology, the sound of the Bluetooth audio player connected to this unit is muted.

! The play time may not display correctly. ! Depending on the type of Bluetooth audio player you have connected to this unit, operation and information display may not be available for some functions. (AVH-P4450BT/AVH-P3450DVD) Depending on your iPod, there may not be any output unless you use CD-IU201V (sold separately). Be sure to use CD-IU201V to connect your iPod. ! (AVH-2450BT/AVH-1450DVD) Depending on your iPod, there may not be any output unless you use CD-IU51V/CDIU201V (sold separately).

Be sure to use CD-IU51V/CD-IU201V to connect your iPod. Touch and hold for more than two seconds to turn the auto-equalizer on or off. refer to Using the autoequalizer on page 47. Displaying a list of track titles/file names to select songs on a CD. refer to Selecting tracks from the track title list on page 37.

Displaying the file name list to select the files. Refer to Browsing for a video/music on the iPod on page 34. switching between media file types on a DVD/CD/USB. Refer to Switching the media file type on page 32. 8 Switching the text information to display on this unit when playing MP3/ WMA/AAC files. pausing and starting playback. Playing songs on the iPod in random order. refer to Random play (shuffle) on page 33. Changing the speed of audiobook playback on the iPod. refer to Changing audiobook speed on page 37.

Switching to Link Search mode to play songs related to the currently playing song on the iPod. Refer to Displaying lists related to the currently playing song (Link Search) on page 37. Conducting operation from your iPod and listening to it using your car's speakers. Refer to Operating this unit's iPod function from your iPod on page 32. Performing operations from this unit and listening to the music on your iPod using your car's speakers.



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07 9 2 a 3 b Playing audio 4 c d 5 e 6 7 Selecting a folder. En 21 Section 07 Playing audio Text information Displaying the Songs list on the iPod. refer to Searching for a video/music by category on page 34. Displaying the Artists list on the iPod. refer to Searching for a video/music by category on page 34. Displaying the Albums list on the iPod. refer to Searching for a video/music by category on page 34. F Note Touch panel keys not listed under Introduction of sound playback operations may appear on the display. refer to Indicator list on page 98. G Setting up for Bluetooth audio Before you can use the Bluetooth audio function you must set up the unit for use with your Bluetooth audio player.

This entails establishing a Bluetooth wireless connection between this unit and your Bluetooth audio player, and pairing your Bluetooth audio player with this unit. 1 Connection First, you need to connect a Bluetooth audio to this unit. refer to Introduction of Bluetooth connection menu operations on page 70. H Artwork display i Starting Album Link Search on your iPod when you touch the artwork display. Refer to Displaying lists related to the currently playing song (Link Search) on page 37.

Playing back sound 1 Insert the disc into the disc loading slot with the label side up. While an iPod is connected to this unit, PIONEER, Accessory Attached or (check mark) is displayed on the iPod. ! When the source icon is not displayed, it can be displayed by touching the screen. ! Disconnect headphones from the iPod before connecting it to this unit. ! Depending on the iPod model and the amount of data stored in the iPod, it may take some time for playback to begin. ! Use the touch panel keys to select the iPod after connecting it to this unit. ! No Device is displayed when disconnecting the iPod. Selecting a track using the buttons 1 Press c or d (TRK). When playing back files recorded as VBR (variable bit rate) files, the play time will not be correctly displayed if fast forward or reverse operations are used. ! To ensure proper operation, connect the dock connector cable from the iPod directly to this unit.

! While the iPod is connected to this unit, the iPod cannot be turned on or off. ! If the characters recorded on the disc are not compatible with this unit, those characters will not be displayed. ! Text information may not be correctly displayed depending on the recorded environment. ! Disconnect the USB portable audio player/ USB memory when you are done using it. ! When you select Clock or Speana on Selecting the background display on page 73, the artwork is not displayed. 22 En Section Playing still images Introduction of still image playback operations You can view still images saved in CD-R/CDRW/USB. Rotating the displayed picture 90° clockwise. Starting or pausing the slideshow. Abcdeabcdeabcde Abcdeabcdeabcde 7 2 2 Capture 8 Playing still images 8 76 5 When playing a disc containing a mixture of various media file types 9 9 When loading a CD-R/RW or USB containing JPEG picture files, this unit starts a slideshow from the first folder/picture on the disc/device. The table below shows the controls for viewing a slideshow.

Touch panel keys 1 Selecting the repeat range. Displaying the file name list to select the files. refer to Selecting files from the file name list on page 37. Switching between media file types when there is more than one media file type saved to the CD-R/RW or USB device. This key does not appear if there is only one media file type saved to the CD-R/RW or USB device.

Refer to Switching the media file type on page 32. Playing still images 1 Insert the disc into the disc loading slot with the label side up. When the source icon is not displayed, it can be displayed by touching the screen. You can search 10 JPEG files at a time. 2 3 4 Notes ! Files are played back in file number order and folders are skipped if they contain no files.

Touch panel keys not listed under Introduction of still image playback operations may appear on the display. refer to Indicator list on page 98. En 23 Section 08 Playing still images Introduction of still image playback as a slideshow operations You can view still images saved in CD-R/CDRW/USB as a slideshow when listening to another source. 7 Rotating the displayed picture 90° clockwise. Starting or pausing the slideshow. 8 123 Off Full 4 5 1 Start slideshow when listening to another source. Capture 2 Select the device containing the files that you want to display. This unit cannot be used to view still images on disc or by USB/iPod as a slideshow when the corresponding source, Disc or USB/iPod, is selected. ! Touch panel keys not listed under Introduction of still image playback as a slideshow operations may appear on the display. refer to Indicator list on page 98.

8 76 The table below shows the controls for viewing a slideshow. Touch panel keys 1 Selecting the repeat range. 24 En Section Bluetooth telephone Introduction of Bluetooth telephone operations You can use Bluetooth telephone (AVHP4450BT/AVH-2450BT only). telephone standby display 09 ! If you are unable to complete the connection using this unit, use the device to connect to the unit. ! If you connect more than one device at a time, connected device may not operate properly. connecting one device at a time is recommended. 1 Incoming call notice Indicates that an incoming call has been received and has not been checked yet. Not displayed for calls made when your cellular phone is disconnected from this unit. Touch panel keys Switching the mode to enter the phone number directly. Refer to Making a call by entering phone number on page 42.

Switching to the call history list. Refer to Using the missed, received and dialed call lists on page 40. Switching to the phone book mode. Refer to Calling a number in the phone book on page 39. Refer to Selecting a number by alphabet search mode on page 39.

Turning the ring tone for incoming calls on or off. Refer to the instructions from page 70 to page 72. 657 1 243 When switching to the entering phone number mode Wed 28 may Bluetooth telephone 1 12:45 PM 1 1 4 7 2 5 8 0 3 6 9 # C ABCDEHGHI 01 012345678901 2 Off * + 8b Important 9a 3 ! Since this unit is on standby to connect with your cellular phone via Bluetooth wireless technology, using it without the engine running can drain the battery power. ! Advanced operations that require attention such as dialing numbers on the monitor, etc. , are prohibited while driving.

Park your vehicle in a safe place when using these advanced operations. ! Operations available may be limited depending on the cellular phone connected to this unit. ! Be sure to park your vehicle in a safe place and apply the parking brake when performing this operation. Adjusting the other party's listening volume. Refer to Adjusting the other party's listening volume on page 41. Making a phone call, when selecting a phone number. Private mode can only be operated while you are talking on the phone.



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! To end the call, both you and the other caller must hang up your phones. ! Touch panel keys not listed under Introduction of Bluetooth telephone operations may appear on the display. refer to Indicator list on page 98.

1 Connection First, you need to connect a Bluetooth telephone to this unit. For detailed instructions on connecting your phone to this unit via Bluetooth wireless technology, see following section. Using a Bluetooth device to pair on page 70 and Pairing from this unit on page 70. 2 Volume adjustment Adjust the earpiece volume of your cellular phone to your preference. The unit will record the adjusted volume level as the default setting. ! The volume of the caller's voice and ring tone may vary depending on the type of cellular phone. ! If there is a large volume difference between the ring tone and caller's voice, the overall volume level may become unstable. ! Make sure to adjust the volume to a proper level before disconnecting the cellular phone from the unit. If the volume is muted (zero level) on your cellular phone, the volume level of your cellular phone remains muted even after the cellular phone is disconnected.

Setting up for hands-free phoning Before you can use the hands-free phoning function you must set up the unit for use with your cellular phone. This entails establishing a Bluetooth wireless connection between this unit and your phone, registering your phone with this unit, and adjusting the volume level. 26 En Section Using Bluetooth wireless technology Introduction of Bluetooth telephone operations You can use Bluetooth wireless technology (AVH-P3450DVD). during a call 10 Touch panel keys Accepting an incoming call. Making a phone call, when selecting a phone number from the dialed and received call history. Touch and hold for more than two seconds to turn the auto-equalizer on or off. refer to Using the autoequalizer on page 47. Turning the ring tone for incoming calls on or off. refer to Switching the ring tone on page 41. Touch and hold for more than two seconds to display the Bluetooth device address of your cellular phone and the Bluetooth adapter. Touch and hold for more than two seconds to connect to a Bluetooth telephone automatically.

refer to Connecting to a Bluetooth device automatically on page 43. Registering connected cellular phone to take full advantage of the features available with Bluetooth wireless technology. refer to Registering a connected cellular phone on page 42. Touch and hold for more than two seconds to terminate the Bluetooth wireless connection. 1 1 TEL Abcdeabc 2 3 Wed 28 May 2 12:45 PM 3 Text Scroll REG 987654 Except during a call Text Scroll REG Using Bluetooth wireless technology a When you connect a Bluetooth adapter (e. But the available features are limited. important ! In some countries, CD-BTB100 is not sold on the market. ! Since this unit is on standby to connect with your cellular phone via Bluetooth wireless technology, using it without the engine running can drain the battery power. ! Advanced operations that require attention such as dialing numbers on the monitor, etc. , are prohibited while driving.

Park your vehicle in a safe place when using these advanced operations. ! Operations available may be limited depending on the cellular phone connected to this unit. 4 5 6 En 27 Section 10 Using Bluetooth wireless technology Scrolling the phone number. Touch and hold for more than two seconds to activate connection mode on this unit and establish a Bluetooth wireless connection from your phone. refer to Using a cellular phone to initiate a connection on page 42. Displaying the dialed call history. Selecting a phone number from the call history. Refer to Using the missed, received and dialed call lists on the optional Bluetooth adapter on page 40. Displaying the received/ missed call history. Selecting a phone number from the call history.

Refer to Using the missed, received and dialed call lists on the optional Bluetooth adapter on page 40. Switching between Bluetooth telephone and Bluetooth audio. Touch and hold for more than two seconds to start voice recognition. refer to Voice recognition on page 43. 7 Text Scroll 8 9 1 Connection First, you need to connect a Bluetooth telephone to this unit.

For detailed instructions on connecting your phone to this unit via Bluetooth wireless technology, see following section. Using a cellular phone to initiate a connection on page 42 and Registering a connected cellular phone on page 42. 2 Volume adjustment Adjust the earpiece volume of your cellular phone to your preference. The unit will record the adjusted volume level as the default setting. ! The volume of the caller's voice and ring tone may vary depending on the type of cellular phone.

! If there is a large volume difference between the ring tone and caller's voice, the overall volume level may become unstable. ! Make sure to adjust the volume to a proper level before disconnecting the cellular phone from the unit. If the volume is muted (zero level) on your cellular phone, the volume level of your cellular phone remains muted even after the cellular phone is disconnected. Depending on the Bluetooth audio player connected to this unit, the available operations will be limited to the following two levels: -- A2DP profile (Advanced Audio Distribution Profile): You can only playback songs on your audio player. Since there are a number of Bluetooth audio players available on the market, available operations will vary extensively. When operating your player with this unit, refer to the instruction manual that came with your Bluetooth audio player as well as this manual. Note Touch panel keys not listed under Introduction of Bluetooth telephone operations may appear on the display. refer to Indicator list on page 98. Setting up for hands-free phoning Before you can use the hands-free phoning function you must set up the unit for use with your cellular phone. This entails establishing a Bluetooth wireless connection between this unit and your phone, registering your phone with this unit, and adjusting the volume level.

28 En Section Using Bluetooth wireless technology ! Information related to a song (such as the elapsed playing time, song title, song index, etc.) cannot be displayed on this unit. ! As the signal from your cellular phone may cause noise, avoid using it when you are listening to songs on your Bluetooth audio player. ! When a call is in progress on the cellular phone connected to this unit via Bluetooth wireless technology, the sound of the Bluetooth audio player connected to this unit is muted. ! When the Bluetooth audio player is in use, you cannot connect to a Bluetooth telephone automatically. ! Playback continues even if you switch from your Bluetooth audio player to another source while listening to a song. Touch panel keys Switching between Bluetooth telephone and Bluetooth audio. Skipping back or forward to another track when Auto is set for the auto/manual setting. Performing fast forward or reverse when Manual is set for the auto/ manual setting.



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pausing a song.

Touch and hold for more than two seconds to activate connection mode on this unit and establish a Bluetooth wireless connection from your player. Touch and hold for more than two seconds to terminate the Bluetooth wireless connection. 10 Setting the action for c and d icons. Touch and hold for more than two seconds to turn the auto-equalizer on or off. refer to Using the auto-equalizer on page 47.

Note Touch panel keys not listed under Bluetooth audio operations may appear on the display. refer to Indicator list on page 98. Using Bluetooth wireless technology Setting up for Bluetooth audio Before you can use the Bluetooth audio function you must set up the unit for use with your Bluetooth audio player. This entails establishing a Bluetooth wireless connection between this unit and your Bluetooth audio player, and pairing your Bluetooth audio player with this unit. 1 Connection First, you need to connect a Bluetooth audio to this unit.

For detailed instructions on connecting your Bluetooth audio to this unit via Bluetooth wireless technology, see Connecting a Bluetooth audio player on page 43. F1 F2 En 29 Section 11 Detailed instructions Storing and recalling stations You can easily store up to six(for tuner)/12(for TV) stations for each band as presets. The preset screen appears in the display. 2 Touch and hold one of the preset tuning keys to store the selected frequency in the memory. The selected radio/TV station frequency has been stored in the memory. 3 Touch one of the preset tuning keys to select the desired station. The next time you press the same key in radio text display the stored text will be recalled from the memory. Storing the strongest stations BSM (best stations memory) automatically stores the six (for tuner)/12 (for TV) strongest stations. Storing broadcast frequencies with BSM may replace broadcast frequencies you have saved using the preset tuning keys. The preset screen appears in the display.

2 Touch BSM/BSSM to turn BSM on. The six(for tuner)/12(for TV) strongest broadcast frequencies will be stored under preset tuning keys in order of their signal strength. # To cancel the storage process, touch Cancel. Displaying radio text Radio text data transmitted by RDS stations, such as station information, the name of the currently broadcast song and the name of the artist, can be displayed on this tuner. ! When no radio text is received, No Text appears in the display. Tuning in to strong signals Local seek tuning lets you tune in to only those radio stations with sufficiently strong signals for good reception. FM: Off -- -- -- -- Storing and recalling radio text You can store data from up to six radio text transmissions to the Memo1 to Memo6 keys. 1 Display the radio text you want to store in the memory. refer to Introduction of tuner operations on page 15. 2 Touch and hold one of the keys to store the selected radio text. The memory number is displayed and the selected radio text will be stored in the memory. AM: Off -- -- The highest level setting allows reception of only the strongest stations, while lower levels allow the reception of weaker stations. 30 En Section Detailed instructions Receiving traffic announcements Regardless of the source you are listening to, you can receive traffic announcements automatically with TA (traffic announcement standby). # If the TA function is turned on when you are not tuned in to a TP or enhanced other network's TP station, the indicator lights up dimly. There are four program types:

News&Info--Popular--Classics--Others 4 Touch Start to begin the search.

The unit searches for a station broadcasting that type of program. When a station is found, its program service name is displayed. PTY (program type ID code) information is listed in the following section. refer to this page. # To cancel the search, touch Cancel. # The program of some stations may differ from that indicated by the transmitted PTY. # If no station is broadcasting the type of program you searched for, Not Found is displayed for about two seconds and then the tuner returns to the original station. 3 Press +/- (VOLUME/VOL) to adjust the TA volume when a traffic announcement begins. The newly set volume is stored in the memory and will be recalled for subsequent traffic announcements. 4 Turn off the announcement while a traffic announcement is being received. refer to Introduction of tuner operations on page 15. The tuner returns to the original source but remains in the TA function standby mode until the icon is touched again. Using news program interruption When a news program is broadcast from a PTY code news station, the unit can switch from any station to the news broadcast station. When the news program ends, reception of the previous program resumes. detailed instructions PTY list News&Info News (News) , Affairs (Current affairs) , Info (Information) , Sport (Sports) , Weather (Weather) , Finance (Finance) Popular Pop Mus (Popular music) , Rock Mus (Rock music) , Easy Mus (Easy listening) , Oth Mus (Other music) , Jazz (Jazz) , Country (Country music) , Nat Mus (National music) , Oldies (Oldies music) , Folk Mus (Folk music) Classics L.

Class (Light classical), Classic (Classical) Using PTY functions You can tune in to a station using PTY (program type) information. Searching for an RDS station by PTY information You can search for general types of broadcasting programs, such as those listed in the following section. Switching the media file type When playing a disc containing a mixture of various media file types, such as DivX, MPEG1, MPEG-2, MPEG-4 and MP3, you can switch between media file types to play. Audio data (CD-DA) and JPEG picture files on DVD-R/RW/ROM cannot be played back on this unit. CD (audio data (CD-DA))--Music/ROM (compressed audio)--Video (DivX, MPEG-1, MPEG-2, MPEG-4 video files)--Photo (JPEG picture files) Starting playback from the selected menu item. Operating the DVD menu by directly touching the menu item. # When operating the DVD menu by directly touching the menu item, touch the icon to operate. returning to the normal DVD video display. Operating the DVD menu (Function for DVD video) Some DVDs allow you to make a selection from the disc contents using a menu. displaying arrow keys.

Using the arrow keys 1 Display arrow keys to operate the DVD menu. refer to Playing moving images on page 17. # Ways to display the menu will differ depending on the disc. # Depending on the contents of the DVD disc, this function may not work properly. In such cases, use the touch panel keys to operate the DVD menu.

Operating this unit's iPod function from your iPod You can listen to the sound from your iPod applications using your car's speakers, when App Mode is selected. This function is not compatible with the following iPod models. While this function is in use, the iPod will not turn off even if the ignition key is turned off. Operate the iPod to turn off the power. The following functions are still accessible from the unit even if the control mode is set to App Mode.



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However, the operation will depend on your applications. -- iPod touch 4th generation -- iPod touch 3rd generation -- iPod touch 2nd generation -- iPod touch 1st generation -- iPod classic 160GB -- iPod classic 120GB -- iPod classic -- iPod nano 6th generation -- iPod nano 5th generation -- iPod nano 4th generation -- iPod nano 3rd generation -- iPod nano 2nd generation -- iPhone 4 -- iPhone 3GS -- iPhone 3G -- iPhone 11 ! Folder Play back songs/tracks in the selected folder in random order. ! Disc Play back songs/tracks in the selected disc in random order. ! On Play back files in random order within the repeat range, Folder and Disc. Disc Play through the current disc Chapter Repeat the current chapter Title Repeat the current title Track Repeat the current track File Repeat the current file Folder Repeat the current folder One Repeat just the current video/song All Repeat all videos/songs in the selected list on the iPod Random play (shuffle) iPod-videos/songs can be played back in random order. ! Songs Play back videos/songs in the selected list in random order. ! Albums Play back videos/songs from a randomly selected album in order. ! This function cannot be operated during Video CD playback featuring PBC (playback control). ! If you perform chapter search, fast forward/ reverse, frame-by-frame playback or slow motion playback, the repeat play will stop. ! When playing discs with compressed audio and audio data (CD-DA), playback is repeated within the type of data currently playing even if Disc is selected.

! If you select another folder during repeat play, the repeat play range changes to Disc. If you select USB source, the repeat play range changes to All. ! If you perform track search or fast forward/ reverse during File, the repeat play range changes to Folder. ! If you perform title/chapter search or fast forward/reverse during Chapter, the repeat play is set to off automatically. ! If you perform track search or fast forward/ reverse during Track, the repeat play range changes to Disc. ! When Folder is selected, it is not possible to play back a subfolder of that folder. Detailed instructions Playing videos from your iPod (Function for iPod) En 33 Section 11 Detailed instructions Videos can be played on this unit if an iPod with video capabilities is connected. ! This unit can play back "Movies", "Music videos", "Video Podcast" and "TV show" which are downloaded from the iTunes store. > Playlists Artists Albums Songs Podcasts Video Searching for a video/music by category 1 Display the iPod menus. 2 Touch one of the categories in which you want to search for a video/music.

Video Playlists (video playlists) Movies (movies) Music Videos (music videos) Video Podcasts (video podcasts) TV Shows (TV shows) Rentals (rentals) Playlists (playlists) Artists (artists) Albums (albums) Songs (songs) Podcasts (podcasts) Genres (genres) Composers (composers) Audiobooks (audiobooks) Genres # If you want to switch to iPod video mode, touch the icon. video 3 Switching to iPod video mode. Play the video from the iPod. > Video Playlists Movies Music videos Video Podcasts TV Shows Rentals 3 Touch the title of the list that you want to play. Repeat this operation until you find the desired video/music.

notes ! You can play playlists created with the PC application (MusicSphere). The application will be available on our website. ! Playlists that you created with the PC application (MusicSphere) are displayed in abbreviated form. Music # If you want to switch to iPod music mode, touch the icon. Searching the list by alphabet Music Switching to iPod music mode.

(Function for iPod) 1 Select a category. Refer to Searching for a video/music by category on this page. Browsing for a video/music on the iPod (Function for iPod) To make operating and searching easy, operations to control an iPod with this unit are designed to be as similar to the iPod as possible. 34 En Section Detailed instructions 3 Touch the first letter of the title of the video/song you are looking for. While searching, touch panel key operation is not available. # To refine the search with a different letter, touch Cancel. 11 Searching for the part you want to play You can use the search function to find the part you want to play. For DVD videos, you can select Title (title), Chapter (chapter) or 10key (numeric keypad). For video CDs, you can select Track (track) or 10key (numeric keypad). ! Chapter search is not available when disc playback is stopped.

! This function cannot be operated during some DVD videos or Video CD playback featuring PBC (playback control). 2 Touch the desired search option (e. # To cancel the entered numbers, touch C. 4 Touch the title of the list that you want to play. Repeat this operation until you find the desired song/video. Resume playback (Bookmark) (Function for DVD video) By using the Bookmark function, you can resume playback from a selected scene the next time the disc is loaded. The selected scene will be bookmarked so that playback resumes from that point next time. ! To clear the bookmark on a disc, touch and hold the key during playback. ! The oldest bookmark is replaced by the new one. detailed instructions 4 Start playback from the selected part.

Registering the numbers and starting playback. Frame-by-frame playback (Function for DVD video/video CD/DivX file/ MPEG-1/MPEG-2/MPEG-4) Note Images during frame-by-frame playback may be unclear for some discs. Note With discs featuring a menu, you can also use the DVD menu to make your selection. There is no sound during slow motion playback. ! Images during slow motion playback may be unclear for some discs.

! Reverse slow motion playback is not available. Changing audio language during playback (Multi-audio) With DVDs/DivX files that provides audio playback in different languages and different audio systems (Dolby Digital, DTS, etc.), you can switch between languages/audio systems during playback. notes ! With some DVDs, switching between languages/audio systems may only be possible using a menu display. en 35 Section 11 Detailed instructions ! You can also switch between languages/audio systems using Video Setup menu.

For details, refer to Setting the audio language on page 59. ! Depending on the setting, the video may not be played back with the audio system used to record the DVD. ! You will return to normal playback if you change the Audio during fast forward/fast reverse, pause or slow motion playback. Return to the specified scene (Function for DVD video) This function cannot be used if a specified scene has not been preprogrammed on the DVD disc. Selecting audio output When playing DVD video discs recorded with LPCM audio, you can switch the audio output. When playing video CDs, you can switch between stereo and monaural audio output. ! This function is not available when disc playback is stopped. L+R Left and right Left Left Right Right Mix Mixing left and right Changing the subtitle language during playback (Multi-subtitle) With DVDs/DivX files featuring multi-subtitle recordings, you can switch between subtitle languages during playback.



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notes ! With some DVDs, switching between subtitle languages may only be possible using a menu display. ! You can also switch between subtitle languages using Video Setup menu.

For details, refer to Setting the subtitle language on page 59. ! You will return to normal playback if you change the Subtitle during fast forward/fast reverse, pause or slow motion playback. Note You may not be able to select or use this function depending on the disc and the playback location. Registering the numbers and starting playback. Changing the viewing angle during playback (Multi-angle) With DVDs featuring multi-angle (scenes shot from multiple angles) recordings, you can switch among viewing angles during playback. ! During playback of a scene shot from multiple angles, the angle icon is displayed. Use the Video Setup menu to turn the angle icon display on or off. For details, refer to Setting the multi-angle DVD display on page 60. Note You will return to normal playback if you change the viewing angle during fast forward/fast reverse, pause or slow motion playback. notes ! You can display the menu by touching Return during PBC playback.

For details, refer to the instructions provided with the disc. During playback of Video CDs featuring PBC (playback control), you cannot select the repeat play range or use the search function. 11 Using sound retriever Automatically enhances compressed audio and restores rich sound. off -- ! -- is more effective than . Selecting tracks from the track title list You can select tracks to playback using the track title list which is a list of the tracks recorded on a disc.

2 Touch your favorite track title. playback begins. Changing audiobook speed (Function for iPod) Playback at a speed faster than ! Playback at a speed slower than normal Selecting files from the file name list (Function for compressed audio/DivX/JPEG/ MPEG-1/MPEG-2/MPEG-4) File name list is a list of file names (or folder names) from which you can select a file (or folder) to play back. # When you have selected a folder, a list of the names of the files (or the folders) in it can be viewed. Repeat this operation to select the desired file name.

If folder 1 (ROOT) contains no files , playback commences with folder 2. Note If part of the recorded information does not display, a scroll key appears on the right side of list. Touch the scroll key to scroll. Displaying lists related to the currently playing song (Link Search) (Function for iPod) 1 Start Link Search. refer to Introduction of sound playback operations on page 20. 2 Touch one of the categories in which you want to play. ! Artist Displays an album list of the artist currently being played. ! Album Displays a song list from the album currently being played. ! Genre Displays an album list from the genre currently being played. # To cancel searching , touch Cancel.

Detailed instructions 37 3 Touch the title of the list that you want to play. Note If part of the recorded information does not display, a scroll key appears on the right side of list. Touch the scroll key to scroll. En Section 11 Detailed instructions Playing DivXâ VOD content Some DivX video on demand (VOD) content may only be playable a fixed number of times. When you load a disc containing this type of content, the number of times it has been played will be shown on-screen. You can then decide whether or not to play the disc. ! If there is no limit to the number of times the DivX VOD content can be viewed, then you may load the disc into your player and play the content as often as you like, and no message will be displayed. ! You can confirm the number of times that the content can be played by checking the number displayed after This DivX rental out of views. has used Important ! In order to play DivX VOD contents on this unit, you first need to register the unit with your DivX VOD contents provider. For details on your registration code, refer to Displaying the DivXâ VOD registration code on page 62.

3 When "Do you save this image? " is displayed , touch Yes. While storing the image to this unit, "Saving the image. Don't switch off the battery. " is displayed. When the process is finished, "Image saved.

" is displayed. # To cancel the storage process, touch No. Changing the wide screen mode You can select a desired mode for enlarging a 4:3 picture to a 16:9 picture. % If a message is displayed after loading a disc containing DivX VOD content, touch Play. playback of the DivX VOD content will start.

To skip to the next file, touch Next Play. # If you do not want to play the DivX VOD content, touch Stop. Full (full screen) The 4:3 picture is enlarged in the horizontal direction only, giving you a 4:3 TV picture (normal picture) without any omissions. Just (just) The picture is enlarged slightly at the center and the amount of enlargement increases horizontally toward the edges of the screen, enabling you to enjoy a 4:3 picture without sensing any disparity even when viewing on a wide screen. Cinema (cinema) The picture is enlarged by the same proportion as Full or Zoom in the horizontal direction and by an intermediate proportion between Full and Zoom in the vertical direction; ideal for a cinemasized picture (wide screen picture) where captions lie outside the picture.

Capture an image in JPEG files You can capture image data and use it as wallpaper. Images can be stored and recalled easily in this unit. ! Only one image can be stored on this unit. Old image is overwritten with the new one. 1 Pause the slideshow when the desired image is displayed.

38 En Section Detailed instructions Zoom (zoom) The 4:3 picture is enlarged in the same proportion both vertically and horizontally; ideal for a cinema sized picture (wide screen picture). Normal (normal) The 4:3 picture is displayed as it is, giving you no sense of disparity since its proportions are the same as that of the normal picture. notes ! You cannot operate this function while driving. ! Different settings can be stored for each video source. ! When a video is viewed in a wide screen mode that does not match its original aspect ratio, it may appear different. ! Remember that using the wide mode feature of this system for commercial or public viewing purposes may constitute an infringement on the author's rights protected by the Copyright Law. ! The video image will appear coarser when viewed in Cinema or Zoom mode. Note Depending on the cellular phone, the phone book may not be transferred automatically. In this case, operate your cellular phone to transfer the phone book. The visibility of this unit should be on.

refer to Switching visible unit on page 71. Selecting a number by alphabet search mode (Function of AVH-P4450BT/AVH-2450BT) If a lot of numbers are registered in the phone book, you can search for the phone number by alphabet search mode. Detailed instructions Calling a number in the phone book (Function of AVH-P4450BT/AVH-2450BT) The phone book in your cellular phone will be transferred automatically when the phone is connected to this unit.



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After finding the number you want to call in the phone book, you can select the entry and make the call. The phone book display appears.
2 Select the phone number list. The detailed phone number list of the selected entry is displayed. 3 Select the phone number. # If you want to store the phone number, touch and hold the list. The phone book display appears.

2 Touch ABC to switch to alphabet search mode. 3 Touch the first letter of the entry you are looking for. The Phone Book entries starting with that letter (e. # If you want to change the character to Russian, touch the icon. To return to English, touch the icon again, changing the character to Russian. # The order of the first name and last name may be different from that of the cellular phone. 4 Touch the list to display the phone number list of the selected entry. # If several phone numbers are included in an entry, select one by touching the list. En 39 Section 11 Detailed instructions # If you want to switch to the call history list, touch the icon.

Switching to the call history list. Using the missed, received and dialed call lists (Function of AVH-P4450BT/AVH-2450BT) The 80 most recent calls dialed, received, and missed are stored in the memory. You can browse them and call numbers from these lists. 1 Switch to the call history list. Displaying the received call list. Inverting names in phone book (Function of AVH-P4450BT/AVH-2450BT) When your cellular phone is connected to this unit, the first and last names of your contacts may be registered to the phone book in reverse order. You can use this function to change the order back. (Inverting the names in the phone book) 1 Switch to phone book mode. refer to Introduction of Bluetooth telephone operations on page 25. The phone book display appears.

2 Invert names in phone books. Inverting names in phone books. Displaying the dialed call list. Displaying the missed call list. 3 Touch the list number to select a phone number.

Name and phone number are displayed in the detailed list. # If you want to store the phone number, touch and hold the list. While the names are inverted, is displayed. # If the inversion fails, "Invert Name Error" appears. In such cases, try again from the beginning.

Note Inverting the names of your contacts from this unit does not affect the data on your Bluetooth device. Using the missed, received and dialed call lists on the optional Bluetooth adapter (Function of AVH-P3450DVD) The 80 most recent calls dialed, received, and missed are stored in the memory. You can browse them and call numbers from these lists. 40 En Section Detailed instructions 1 Switch to the call history list. refer to Introduction of Bluetooth telephone operations on page 27. 2 Touch a phone number or name (if entered) you want to call. 11 Switching the ring tone (Function of AVH-P4450BT/AVH-P3450DVD/AVH-2450BT) You can select whether or not to use this unit's ring tone. If this function is set to on, the ring tone for this unit will sound. 1 Connect your cellular phone to this unit. Setting automatic answering (Function of AVH-P4450BT/AVH-P3450DVD/AVH-2450BT) If this function is on, this unit automatically answers all incoming calls.

Using the preset dial lists (Function of AVH-P4450BT/AVH-2450BT) You can easily store up to six phone numbers as presets. 2 Touch one of preset dial keys to select the desired phone number. # If you want to delete a preset phone number, touch and hold the preset dial key. Detailed instructions Adjusting the other party's listening volume (Function of AVH-P4450BT/AVH-2450BT) To maintain the good sound quality, this unit can adjust the other party's listening volume. If the volume is not loud enough for the other party, use this function. 1--2--3 # This function can be performed even while talking on the phone. # Settings can be stored for each device. En 41 Section 11 Detailed instructions Making a call by entering phone number (Function of AVH-P4450BT/AVH-2450BT) Wed 28 may Using a cellular phone to initiate a connection (Function of AVH-P3450DVD) A Bluetooth wireless connection can be established from your phone by putting the unit into initiating a connection mode. You may need to refer to the operation manual that came with your phone if you are unsure how to initiate a connection from your phone. 2 Use a cellular phone to connect to this unit.

Operation varies depending on the type of cellular phone. # You may need to enter the link code on your cellular phone to complete the connection. 12:45 PM 1 1 4 7 2 5 8 0 3 6 9 # C ABCDEFGHI 01 012345678901 Off * + Important Be sure to park your vehicle in a safe place and apply the parking brake when performing this operation. 1 Switch to the entering phone number mode. refer to Introduction of Bluetooth telephone operations on page 25. 2 Touch the number icons to input the numbers. Note Entering phone number mode cannot be operated unless a Bluetooth telephone is connected to this unit. Registering a connected cellular phone (Function of AVH-P3450DVD) You can register a phone that is temporarily connected to this unit in order to take full advantage of the features available with Bluetooth wireless technology. Only one cellular phone can be registered. 2 Use cellular phone to register to this unit.

If registration is successful, the device name of the connected phone is displayed in the selected assignment. # If the assignment is already taken, the device name will be displayed. To replace an assignment with a new phone, first delete the current assignment. # If registration failed, the device name of the connected phone will not be displayed in the selected assignment. In such cases, return to step 1 and try again. Setting the private mode (Function of AVH-P4450BT/AVH-2450BT) During a conversation, you can switch to private mode (talk directly on your cellular phone). refer to Introduction of Bluetooth telephone operations on page 25. 42 En Section Detailed instructions Voice recognition (Function of AVH-P3450DVD) If your cellular phone features voice recognition technology, you can make a call by voice commands. Refer to the instruction manual that came with your cellular phone for detailed instructions. 2 Say the name of your contact aloud.

11 Connecting a Bluetooth audio player (Function of AVH-P3450DVD) A Bluetooth wireless connection can be established by putting the unit into initiating a connection mode. This unit is now on standby for connection from Bluetooth audio player. If your Bluetooth audio player is set ready for Bluetooth wireless connection, connection to this unit is automatically established. Connecting to a Bluetooth device automatically (Function of AVH-P3450DVD) If this function is set to on, a connection between your Bluetooth device and this unit will take place automatically as soon as the two devices are less than a few meters apart. If your Bluetooth device is ready for a Bluetooth wireless connection, a connection to this unit will automatically be established. # To turn automatic connection off, touch Auto Connect again.



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Detailed instructions 2 Once you turn your vehicle's ACC switch on again, a connection is established automatically. En 43 Section 11 Detailed instructions Displaying Bluetooth Device address (Function of AVH-P3450DVD) This unit displays its Bluetooth Device address. The Bluetooth Device address is displayed. 44 En Section Menu operations Introduction of menu operations 12 Audio Fader/Balance Graphic EQ Auto EQ Sonic Center Control Loudness Subwoofer F/R 0 L/R 0 Super Bass On L/R 0 High Off 12 ! You cannot display the Audio function menu when the mute function is on or a JPEG file is playing.

5 2 Touch any of the following touch panel keys to select the menu to be adjusted. Touch panel keys 1 Video Setup menu Refer to Setting up the DVD player on page 59. Favorite menu You can choose menus within each menu (Audio function menu, etc.) and register them to this favorite menu. You can display the Video Setup menu when a Disc or USB source is selected.

! If you start the Video Setup menu, playback is stopped. En 45 Section 12 Menu operations Audio adjustments Using fader/balance adjustment You can change the fader/balance setting to provide an ideal listening environment for all of the occupied seats. Range: Front 15 to Rear 15 # Select F/R 0 L/R 0 when only using two speakers. # The front/rear speaker balance cannot be adjusted when the rear output setting is Subwoofer. The equalizer curves for Custom1 and Custom2 can be adjusted.

! You cannot select Custom1 and Custom2 when using the auto-equalizer. ! When Flat, no changes are made to the sound. @@# You can select Graphic EQ when Auto EQ function is off. Powerful--Natural--Vocal--Flat--Custom1 --Custom2--Super Bass Adjusting the 8-band graphic equalizer Using the equalizer You can adjust the equalization to match the car's interior acoustic characteristics as desired. @@Here is a list of the equalizer curves. Display Powerful Natural Vocal Flat Custom1 Equalizer curve Powerful Natural Vocal Flat Custom 1 You can adjust the level of each band for the equalizer curves. ! A separate Custom1 curve can be created for each source. If you make adjustments when a curve other than Custom2 is selected, the equalizer curve settings will be stored in Custom1. ! A Custom2 curve that is common for all sources can be created. If you make adjustments when the Custom2 curve is selected, the Custom2 curve will be updated.

12 Adjusting loudness Loudness compensates for deficiencies in the low-frequency and high-frequency ranges at low volume. Off (off)--Low (low)--Mid (mid)--High (high) 5 Touch a or b to adjust the level of the equalizer band. Range: +12dB to 12dB # You can then select another band and adjust the level. Using the auto-equalizer The auto-equalizer is an equalizer curve created by auto EQ (refer to Auto EQ (auto-equalizing) on page 67). You can turn the auto-equalizer on or off. If you connect an optional microphone to this unit, you can use this function. # You cannot use this function if auto EQ has not been carried out. Using subwoofer output This unit is equipped with a subwoofer output which can be turned on or off. ! The cut-off frequency and output level can be adjusted when the subwoofer output is on. 3 Touch On or Off next to Subwoofer to turn the subwoofer output on or off.

4 Touch Normal or Reverse next to Phase to select the phase of subwoofer output. 5 Touch c or d next to Level to adjust the output level of the subwoofer. Range: +6 to 24 6 Touch c or d next to Frequency to select the cut-off frequency. 50Hz--63Hz--80Hz--100Hz--125Hz Only frequencies lower than those in the selected range are outputted from the subwoofer. Using sonic center control Sound that is suited for the listening position can easily be created with this function.

Range: Left 7 to Right 7 En 47 Section 12 Menu operations Boosting the bass You can boost the bass level. When selecting FM as the source, you cannot switch to Source Level Adjuster. ! The AM volume level can also be adjusted with this function. ! Video CD, CD, compressed audio, DivX, MPEG-1, MPEG-2 and MPEG-4 are automatically set to the same source level adjustment volume. ! iPod and USB storage device are automatically set to the same source level adjustment volume.

! External unit 1 and external unit 2 are automatically set to the same source level adjustment volume. Using the high pass filter When you do not want low sounds from the subwoofer output frequency range to play from the front or rear speakers, turn on the HPF (high pass filter). Only frequencies higher than those in the selected range are output from the front or rear speakers. 2 Touch c or d next to the frequency to select cut-off frequency. Off

(off)--50Hz--63Hz--80Hz--100Hz-- 125Hz Only frequencies higher than those in the selected range are output from the front or rear speakers. Adjusting source levels With SLA (source level adjustment), the volume levels of each source can be adjusted to prevent significant differences between sources. ! Settings are based on the FM volume level, which remains unchanged. 2 Compare the FM volume level with the level of the source you wish to adjust. 48 En Section Menu operations Digital Signal Processor (Function of AVH-P4450BT/AVH-P3450DVD) 12 Using the position selector One way to assure a more natural sound is to optimize the stereo image and place you right in the center of the sound field. With the position selector function, you can automatically adjust the speaker output levels and insert a delay time to match the number and position of the occupied seats.

When used in conjunction with the SFC, this feature will make the sound image more natural and offer a panoramic sound that envelops you. Key Display Front-L Front-R Front All Position Left front seat Right front seat Front seats All seats Introduction of DSP adjustments You can use this unit to control a DEQ-P6600/ DEQ-P7650 multi-channel processor (sold separately). By carrying out the following settings/adjustments in the order shown, you can effortlessly create a finely-tuned sound field. 1 Setting the speaker setting 2 Using the position selector 3 Auto TA and EQ (auto-time alignment and autoequalizing) 4 Adjusting time alignment 5 Adjusting the speaker output levels using a test tone 6 Selecting a cross-over frequency 7 Adjusting the speaker output levels 8 Adjusting the 3-band parametric equalizer Notes ! You cannot use the audio functions when playing discs recorded at a sampling frequency higher than 96 kHz. Sound is only emitted from front speakers when playing discs recorded at a sampling frequency higher than 96 kHz. ! When selecting FM as the source, you cannot switch to Source Level Adjuster. ! You can only switch to Dynamic Range Control when you are playing DVD discs. ! You can only switch to Time Alignment when either Front-L or Front-R is selected in Position. ! When the speaker setting for both the center and rear speakers are set to OFF, you cannot switch to Dolby Pro Logic II. ! When the multi-channel processor (DEQP6600/DEQ-P7650) is connected to this unit, you cannot use MUTE function.



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