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You can read the recommendations in the user guide, the technical guide or the installation guide for PIONEER VSX-908RDS(-G). You'll find the answers to all your questions on the PIONEER VSX-908RDS(-G) in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual PIONEER VSX-908RDS(-G)
User guide PIONEER VSX-908RDS(-G)
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Pioneer

AUDIO/VIDEO
MULTI-CHANNEL RECEIVER

VSX-908RDS
VSX-908RDS-G

Operating Instructions



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Manual abstract:

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. @@@@As the colours of the wires in the mains lead of this appliance may not correspond with coloured markings identifying the terminals in your plug, proceed as follows : The wire which is coloured blue must be connected to the terminal which is marked with the letter N or coloured black. The wire which is coloured brown must be connected to the terminal which is marked with the letter L or coloured red. Do not connect either wire to the earth terminal of a three - pin plug. NOTE After replacing or changing a fuse, the fuse cover in the plug must be replaced with a fuse cover which corresponds to the colour of the insert in the base of the plug or the word that is embossed on the base of the plug, and the appliance must not be used without a fuse cover. If lost replacement fuse covers can be obtained from: your dealer. Only 5 A fuses approved by B.S.I. or

A.

S.T.A. to B.S.

1362 should be used. Thank you for buying this Pioneer product. Please read through these operating instructions so you will know how to operate your model properly. @@@@This product complies with the Low Voltage Directive (73/23/EEC), EMC Directives (89/336/EEC, 92/31/EEC) and CE Marking Directive (93/68/EEC). Power cord CAUTION! Handle the power cord by the plug.

Do not pull out the plug by tugging the cord and never touch the power cord when your hands are wet as this could cause a short circuit or electric shock. Do not place the unit, a piece of furniture, etc., on the power cord, or pinch the cord. Never make a knot in the cord or tie it with other cords. The power cords should be routed such that they are not likely to be stepped on. A damaged power cord can cause a fire or give you an electrical shock. Check the power cord once in a while. When you find it damaged, ask your nearest PIONEER authorized service center or your dealer for a replacement. THE POWER SWITCH IS SECONDARY CONNECTED AND THEREFORE DOES NOT SEPARATE THE UNIT FROM MAINS POWER IN STANDBY POSITION. Maintenance of External Surfaces · Use a polishing cloth or dry cloth to wipe off dust and dirt.

· When the surfaces are dirty, wipe with a soft cloth dipped in some neutral cleanser diluted five or six times with water, and wrung out well, and then wipe again with a dry cloth. Do not use furniture wax or cleansers. · Never use thinners, benzine, insecticide sprays or other chemicals on or near this unit, since these will corrode the surfaces. 2 Table of Contents Before You Start

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connections. See p.10, 11 for more on digital connections. The arrows indicate the direction of the audio signal. The illustration is not applicable to the UK model. R DIGITAL 1 PCM/2 3 4 /DTS/MPEG IN S R RF IN FM ANTENNA F R PCM/ /DTS /MPEG OUT S L F L S W P L A Y R E C D I N PREOUT EXTERNAL DECODER IN L DVD /LD IN TV/ SAT IN IN VCR1 VIDEO S S S S IN AC OUTLETS IN F L F R S L S R P L C A Y S R E W C IN SWITCHED TOTAL 100W MAX UNSWITCHED 100W MAX C FM UNBAL 75 TAPE2 MONITOR OUT OUT IN VCR2 OUT S S IN OUT VIDEO OUT TO MONITOR TV OUT IN CONTROL OUT FR FL C SR SL R L S R AM LOOP ANTENNA L MD/ TAPE1 /CD-R IN PHONO A FRONT SPEAKERS CENTER SPEAKER SEE INSTRUCTION MANUAL SURROUND SPEAKERS FRONT SPEAKERS B SE REPORTER AU MODE D'EMPLOI OUTPUT REC PLAY REC PLAY L R L R L R CD player Turntable If your turntable has a ground wire, connect it to the (signal ground) terminal.



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MD recorder or Cassette deck Cassette deck (with REC monitor) 7 Audio cords Use audio cords (not supplied) to connect the audio components. R L Connect red plugs to R (right) and white plugs to L (left). Be sure to insert completely. Cassette deck placement Depending on where the cassette deck is placed, noise may occur during playback of your cassette deck, which is caused by leakage flux from the transformer in the receiver.

If you experience noise, move the cassette deck farther away from the receiver. 8 Connecting Your Equipment Video Components Connect your video components to the jacks as shown below. Regarding digital video components (like a DVD), you must use the analog connections pictured on this page for the video signal but in order to use Dolby Digital you should hook up their audio to a digital input (see the next page). It is also a good idea to hook up your digital components with analog audio connections as well (see the previous page). To cover all possible laser discs a DVD/LD player or LD player requires an analog connection (as shown here) and two digital connections (see the next page). PREPARATION DVD player (or LD player) Video deck (1) Video deck (2) OUTPUT OUTPUT INPUT VIDEO L R VIDEO L R VIDEO L R VIDEO L R VIDEO L R R DIGITAL 1 PCM/2 3 4 /DTS/MPEG IN S R RF IN FM ANTENNA F R PCM/ /DTS /MPEG OUT S L F L S W P L A Y R E C CD I N PREOUT EXTERNAL DECODER IN L DVD /LD IN TV/ SAT IN IN VCR1 VIDEO S S S S IN AC OUTLETS IN The illustration is not applicable to the UK model. F L F R S L S R P L CA Y SR E WC IN SWITCHED TOTAL 100W MAX UNSWITCHED 100W MAX C FM UNBAL 75 TAPE2 MONITOR OUT OUT IN VCR2 OUT S S IN OUT VIDEO OUT TO MONITOR TV OUT IN CONTROL OUT FR FL C SR SL R L S R AM LOOP ANTENNA L MD/ TAPE1 /CD-R IN PHONO A FRONT SPEAKERS CENTER SPEAKER SEE INSTRUCTION MANUAL SURROUND SPEAKERS FRONT SPEAKERS B SE REPORTER AU MODE D'EMPLOI OUTPUT INPUT 7 Front 5-CHANNEL EQUAL POWER OUTPUT S-VIDEO PHONES VIDEO INPUT VIDEO L AUDIO R VIDEO VIDEO L R VIDEO EXTERNAL DECODER IN DIRECT SPEAKERS Video camera (etc.) TV (monitor) VIDEO INPUT V L R TV tuner (or Satellite tuner) Front video connection are accessed via the front panel input selector as "VIDEO." 7 Audio/Video cords Use audio/video cords (not supplied) to connect the video components and a video cord to connect the monitor TV. Connect red R plugs to R (right), L white plugs to L VIDEO (left), and the yellow plugs to VIDEO.

Be sure to insert completely. If your video components have S-video jacks, you could use S-video cords (not supplied) to connect them on the back of the receiver. However, if you use S-video cords for your video hook ups you must also hook up your TV with S-video connections. Conversely, if you use regular composite video cords for video hookups, you should use them for your TV as well. 9 Connecting Your Equipment Digital Connections In order to use MPEG/Dolby Digital/DTS soundtracks you need to make digital audio connections.

You can do this by either coaxial or optical connections (you do not need to do both). The quality of these two types of connections is the same but since some digital components only have one type of digital terminal, it is a matter of matching. The receiver has two coaxial and two optical inputs for a total of four digital inputs. A DVD/LD player or LD player should be connected to a digital jack and the special AC-3 RF jack (if the LD player has one) as well as a pair of analog jacks (see the previous page). Connect your digital components as shown below.

There is one digital out jack which is marked PCM/2/DTS/MPEG OUT. If you connect this to the optical input on a digital recorder (currently these include MD, DAT and CD-R), you can make direct digital recordings with this receiver. The illustration is not applicable to the UK model. R DIGITAL 1 PCM/2 3 4 /DTS/MPEG IN S R RF IN FM ANTENNA F R PCM/ /DTS /MPEG OUT PREOUT S L EXTERNAL DECODER IN L DVD /LD IN TV/ SAT IN IN VCR1 VIDEO S S S S IN AC OUTLETS IN F L S W P L A Y R E C F L F R S L S R P L CA Y SR E WC IN SWITCHED TOTAL 100W MAX UNSWITCHED 100W MAX C FM UNBAL 75 TAPE2 MONITOR OUT OUT IN VCR2 OUT S S IN OUT VIDEO OUT TO MONITOR TV OUT IN CONTROL OUT FR FL C SR SL R L CD I N S R AM LOOP ANTENNA L MD/ TAPE1 /CD-R IN PHONO A FRONT SPEAKERS CENTER SPEAKER SEE INSTRUCTION MANUAL SURROUND SPEAKERS FRONT SPEAKERS B SE REPORTER AU MODE D'EMPLOI DIGITAL OUT OPT. DIGITAL OUT DIGITAL IN DIGITAL OUT DVD player CD player MD recorder TV tuner (or Satellite tuner) 7 Digital audio cords/Optical cables Commercially available digital audio coaxial cords (standard video cords can also be used) or optical cables (not supplied) are used to connect digital components to this receiver. When you use optical digital input or output terminals, pull off the caps and insert the plugs. Be sure to insert completely. Digital audio cord (or standard video cord) Optical cable 10 Connecting Your Equipment Example of Connection Using a DVD/LD or LD player Make sure you connect your DVD/LD or LD players using the AC-3 RF jack and a coaxial or optical jack. If your player has an AC-3 RF output, this will ensure you can play back AC-3 RF signals. See p.

34 for details. PREPARATION The illustration is not applicable to the UK model. R DIGITAL 1 PCM/2 3 4 /DTS/MPEG IN S R RF IN FM ANTENNA F R PCM/ /DTS /MPEG OUT S L F L S W P L A Y R E C CD I N PREOUT EXTERNAL DECODER IN L DVD /LD IN TV/ SAT IN IN VCR1 VIDEO S S S S IN AC OUTLETS IN F L F R S L S R P L CA Y SR E WC IN SWITCHED TOTAL 100W MAX UNSWITCHED 100W MAX C FM UNBAL 75 TAPE2 MONITOR OUT OUT IN VCR2 OUT S S IN OUT VIDEO OUT TO MONITOR TV OUT IN CONTROL OUT FR FL C SR SL R L S R AM LOOP ANTENNA L MD/ TAPE1 /CD-R IN PHONO A FRONT SPEAKERS CENTER SPEAKER SEE INSTRUCTION MANUAL SURROUND SPEAKERS FRONT SPEAKERS B SE REPORTER AU MODE D'EMPLOI RF OUT (AC-3)(LD) OUTPUT DIGITAL OUT 1 PCM (OPT.) VIDEO L 2 3 R DVD/LD player or LD player Be sure to make either a digital coaxial or digital optical connection (pictured as DIGITAL-1 jack or DIGITAL-3 jack in this diagram) as well. You do not need, however, to make both. Also, be sure to assign the jacks to the proper component(s) with the "Digital-In Select" procedure (see p.34). 11 Connecting Your Equipment External Decoder Input In some cases you may need an external decoder to play special DVD discs and the like. If you find you need an external decoder, hook one up as shown below.



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For most people this component is unnecessary.

(See p.43) The illustration is not applicable to the UK model. R DIGITAL 1 PCM/2 3 4 /DTS/MPEG IN S R RF IN FM ANTENNA F R PCM/ /DTS /MPEG OUT S L F L S W P L A Y R E C D I N PREOUT EXTERNAL DECODER IN L DVD /LD IN TV/ SAT IN IN VCR1 VIDEO S S S S IN AC OUTLETS IN F L F R S L S R P L C A Y S R E W C IN SWITCHED TOTAL 100W MAX UNSWITCHED 100W MAX C FM UNBAL 75 TAPE2 MONITOR OUT OUT IN VCR2 OUT S S IN OUT VIDEO OUT TO MONITOR TV OUT IN CONTROL OUT FR FL C SR SL R L S R AM LOOP ANTENNA L MD/ TAPE1 /CD-R IN PHONO A FRONT SPEAKERS CENTER SPEAKER SEE INSTRUCTION MANUAL SURROUND SPEAKERS FRONT SPEAKERS B SE REPORTER AU MODE D'EMPLOI » SURROUND OUTPUT » SUB WOOFER L » CENTER » FRONT OUTPUT L R R Components equipped with 5.1 channel analog output jacks You cannot use the tuner and phono functions with an external decoder input. 12 Connecting Your Equipment Antennas Hook up the supplied radio antennas as shown below.

AM loop antenna FM wire antenna PREPARATION Connect the FM wire antenna and fully extend to the "T" shape. (For best reception, attach horizontally along a window frame, etc.) (See below) The illustration is not applicable to the UK model. R DIGITAL 1 PCM/2 3 4 /DTS/MPEG IN S R RF IN FM ANTENNA F R PCM/ /DTS /MPEG OUT PREOUT S L EXTERNAL DECODER IN L DVD /LD IN TV/ SAT IN IN VCR1 VIDEO S S S S IN AC OUTLETS IN F L S W P L A Y R E C F L F R S L S R P L C A Y S R E W C IN SWITCHED TOTAL 100W MAX UNSWITCHED 100W MAX C FM UNBAL 75 TAPE2 MONITOR OUT OUT IN VCR2 OUT S S IN OUT VIDEO OUT TO MONITOR TV OUT IN CONTROL OUT FR FL C SR SL R L CD I N S R AM LOOP ANTENNA L MD/ TAPE1 /CD-R IN PHONO A FRONT SPEAKERS CENTER SPEAKER SEE INSTRUCTION MANUAL SURROUND SPEAKERS FRONT SPEAKERS B SE REPORTER AU MODE D'EMPLOI 7 AM loop antenna 1 Assemble the antenna. 2 Twist exposed wire strands together and insert. 3 Attach to a wall, etc. (if desired) and face toward the direction providing the best reception. 10 m m Using external antennas 7 To improve FM reception Connect an external FM antenna. 7 To improve AM reception Connect a 56 meter length of vinyl-coated wire to the AM antenna terminal in addition to the supplied AM loop antenna. For the best possible reception, suspend horizontally outdoors. FM ANTENNA PAL connector FM ANTENNA Outdoor antenna FM UNBAL 75 75 coaxial cable AM LOOP ANTENNA FM UNBAL 75 56 m Indoor antenna (Vinyl-coated wire) ground AM LOOP ANTENNA ground 13 Connecting Your Equipment Speakers A full complement of six speakers is shown here but, naturally, everyone's home setup will vary. Simply connect the speakers you have in the manner described below. The receiver will work with just two stereo speakers (called "front" speakers in the diagram) but it is recommended to be used with at least three speakers. Make sure you connect the speaker on the right to the right terminal and the speaker on the left to the left terminal. Also make sure the positive and negative (+/-) terminals on the receiver match those on the speakers.

The receiver has two speaker systems, A & B. A is the main system supporting the full complement of surround sound speakers. If you switch on both A & B speaker systems, only front speakers and the sub-woofer will be audible. No sound will come from the center or surround speakers but multi channel sources will be down-mixed to the active speakers so no sound will be lost. Similarly, if you choose just the B system you'll only hear from the front speakers connected to the B system and multi channel sources will be down-mixed to these two speakers. Please use speakers rated between 6 - 16 . Front Speakers (A) L R Center Speaker C Surround Speakers SR SL R DIGITAL 1 PCM/2 3 4 /DTS/MPEG IN S R RF IN FM ANTENNA F R PCM/ /DTS /MPEG OUT PREOUT EXTERNAL DECODER IN L DVD /LD IN TV/ SAT IN IN VCR1 VIDEO S S S S IN AC OUTLETS S L F L IN The illustration is not applicable to the UK model. F L F R S L S R P L C A Y S R E W C IN SWITCHED TOTAL 100W MAX UNSWITCHED 100W MAX C FM UNBAL 75 TAPE2 MONITOR S W P L A Y R E C OUT OUT IN VCR2 OUT S S IN OUT VIDEO OUT TO MONITOR TV OUT IN CONTROL OUT FR FL C SR SL R L CD I N S R AM LOOP ANTENNA L MD/ TAPE1 /CD-R IN PHONO A FRONT SPEAKERS CENTER SPEAKER SEE INSTRUCTION MANUAL SURROUND SPEAKERS FRONT SPEAKERS B SE REPORTER AU MODE D'EMPLOI TV (To be used as the center speaker) INPUT Powered sub woofer Be sure to complete all other connections before connecting this unit to the AC power source. When using the speaker on your TV as the center speaker, connect the CENTER PREOUT jack on this unit to the audio input jack on your TV. In this case, the center speaker shown is unnecessary.

14 Connecting Your Equipment 7 Speaker terminals 1 Twist exposed wire strands together. 2 Loosen speaker terminal and insert exposed wire. 3 Tighten terminal. PREPARATION 10 mm Speaker impedance You can change the speaker impedance to suit the kind of speakers you have in your home system. We recommend, however, using speakers with an impedance of 8 -16 (the default setting).

If you are using 6 -less than 8 impedance speakers, you need to change the impedance setting. STANDBY/ON Before operating the receiver, be sure to press the main power button on the front panel to turn the power ON (_). AUDIO/VIDEO MULTI-CHANNEL RECEIVER STANDBY/ON STANDBY DSP MODE STEREO /DTS THX CINEMA ADVANCED STANDARD --OFF _ON MPEG First turn the receiver off (Standby mode), then press the STANDBY/ON button while holding down the SPEAKERS button. LOUDNESS MIDNIGHT DIGITAL NR SIGNAL SELECT RF ATT CLASS FM/ BASS + TREBLE + TAPE 2 CHARACTER INPUT ATT MONITOR /SEARCH MEM 5-CHANNEL EQUAL POWER OUTPUT S-VIDEO PHONES VIDEO INPUT L AUDIO R VIDEO EXTERNAL DECODER IN DIRECT SPEAKERS Choose the impedance setting by pressing the SPEAKERS button again. You can choose the 8 -16 setting or the 6 -less than 8 setting.

SIGNAL SELECT ANALOG SP A VOLUME dB (This display indicates an 6 -less than 8 impedance setting) Main power button SPEAKERS To check which impedance the amp is set to, hold down the SPEAKERS button for 2-3 seconds. You will get a display like the one shown below telling you the speaker impedance setting. SIGNAL SELECT ANALOG SP A VOLUME SIGNAL SELECT ANALOG SP A VOLUME dB or dB (This display indicates an 8 -16 impedance setting.) (This display indicates an 6 -less than 8 impedance setting).



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) 15 Connecting Your Equipment Speaker placement If you have a multiple speaker arrangement, the placement of the speakers is extremely important. To achieve the best possible surround sound, install your speakers as shown below. Make sure all speakers are installed securely to prevent accidents and improve sound quality. Be sure to consult your speaker manuals for the best placement of the speakers. Some speakers are designed to be floor-standing but others benefit greatly from speaker stands which raise them off the floor. Front Left Center Front Right Sub Woofer Surround Left Listening Position Surround Right · Install the left and right front speakers at equal distances from the TV.

· When installing speakers near the TV, we recommend using magnetically shielded speakers to prevent possible interference such as distortion in the color of the TV screen. If you do not have magnetically shielded speakers and notice discoloration of the TV screen, place the speakers farther away from the TV. · Install the center speaker above or below the TV so that the sound of the center channel is localized at the TV screen. CAUTION: When installing the center speaker on top of the TV, be sure to secure it with tape or some other suitable means. Otherwise, the speaker may fall from the TV due to external shocks such as earthquakes, and it may lead to endangering those nearby or damaging the speaker. · If possible, install the surround speakers slightly above ear level. · It may be difficult to obtain a cohesive surround effect if the surround speakers are installed farther away from the listening position than the front and center speakers. 16 Connecting Your Equipment Connecting Additional Amplifiers Although the receiver has more than sufficient power for any home use, it is possible to add additional amplifiers to your system. If you want to use separate amplifiers to power your speakers, make the connections shown below.

PREPARATION PIONEER projection TV (for center channel) Amplifier (for center channel) L-Audio (MONO) AUDIO IN AUDIO Powered sub woofer Amplifier (for surround channels) AUDIO IN Amplifier (for front channels) AUDIO IN INPUT (or) L R IN L R L R L R R DIGITAL 1 PCM/ 2 3 4 /DTS/MPEG IN S R RF IN FM ANTENNA F R PCM/ /DTS /MPEG OUT S L F L S W P L A Y R E C CD I N PREOUT EXTERNAL DECODER IN L DVD /LD IN TV/ SAT IN IN VCR1 VIDEO S S S S IN AC OUTLETS IN F L F R S L S R P L CA Y SR E WC IN SWITCHED TOTAL 100W MAX UNSWITCHED 100W MAX C FM UNBAL 75 TAPE2 MONITOR OUT OUT IN VCR2 OUT S S IN OUT VIDEO OUT TO MONITOR TV OUT IN CONTROL OUT FR FL C SR SL R L S R AM LOOP ANTENNA L MD/ TAPE1 /CD-R IN PHONO A FRONT SPEAKERS CENTER SPEAKER SEE INSTRUCTION MANUAL SURROUND SPEAKERS FRONT SPEAKERS B SE REPORTER AU MODE D'EMPLOI The illustration is not applicable to the UK model.

Power Connections (AC OUTLETS) (Except for the UK model.) [SWITCHED TOTAL 100 W MAX] Power supplied through these outlets is turned on and off by the receiver's STANDBY/ON switch. Total electrical power consumption of connected equipment should not exceed 100 W. [UNSWITCHED 100 W MAX] Power flows continually to this outlet, regardless of whether the receiver is switched ON or OFF. Electrical power consumption of the connected equipment should not exceed 100 W.

CAUTION! · Do not connect appliances with high power consumption such as heaters, irons, or television sets to the AC OUTLETS in order to avoid overheating or fire risk. This can cause the amplifier to malfunction. · The equipment should be disconnected by removing the mains plug from the wall socket when not in regular use, e.g. when on vacation.

17 Displays and Controls Front Panel All the controls on the front panel are explained and/or referenced here. To open the front panel push gently on the lower third of the panel. 12 3 4 5 6 AUDIO/VIDEO MULTI-CHANNEL RECEIVER 7 8 9 0 - = INPUT SELECTOR STANDBY/ON STANDBY DSP MODE STEREO EON MODE /DTS THX CINEMA ADVANCED STANDARD FL DIMMER --OFF _ON MPEG MASTER VOLUME DOWN UP ~ ! @ # \$ % ^ 5-CHANNEL EQUAL POWER OUTPUT S-VIDEO PHONES VIDEO INPUT L AUDIO R VIDEO EXTERNAL DECODER IN DIRECT LOUDNESS MIDNIGHT DIGITAL NR SIGNAL SELECT RF ATT CLASS & FM/AM TUNING + c SPEAKERS BASS + TREBLE + TAPE 2 CHARACTER INPUT ATT MONITOR /SEARCH MEMORY STATION + £ TM j + _)(* 1 Main power (-- ON/ _ OFF) button If the button is OFF (_ the power of the receiver), is shut off and the STANDBY/ON button (2 on) the receiver or the remote control do not function. Pressing the button again will turn the receiver ON (--) and the receiver enters the standby mode. In the standby mode, you can turn on the receiver using the STANDBY/ON button (2 on the receiver or the remote control.) 6 2/DTS buttons (See p. 36, 38) THX CINEMA : Press to select the HOME THX CINEMA mode when listening to Dolby Digital, Dolby Pro Logic, DTS, or a variety of other sources. ADVANCED : Press to select one of the four Advanced Theater modes. STANDARD (MPEG) : Press repeatedly to select the STANDARD or MPEG mode. 2 STANDBY/ON button Press to switch the receiver ON or into the STANDBY mode.

7 Display (See page 20-21) 8 Remote sensor Point the remote control toward the remote sensor to operate the receiver. 3 STANDBY indicator Lights when the receiver is in the STANDBY mode. (Please note that this receiver consumes a small amount of power (1.0 W) during the standby mode.) 9 EON MODE button/indicator Press to select the EON mode in the FM mode (see "Setting EON" on page 53). The indicator lights when the EON mode is selected. 4 DSP MODE button (See p.37-38) Press repeatedly to select a DSP sound mode. (HALL 1, HALL 2, JAZZ, DANCE, THEATER 1, or THEATER 2). Use these modes to produce surround sound from standard (two channel) stereo sources and create different listening environments. 0 FL DIMMER button (See p.45) Use to adjust the brightness of the main display. 5 STEREO button (See p.37-38) Press to select the STEREO sound mode. In this mode, sound comes from the front (left and right) speakers only.

18 Displays and Controls - INPUT SELECTOR dial Turn to select a source component. The source indicators on the display shows the current component: DVD/LD :DVD player or Laser Disc player. TV/SAT :TV tuner or satellite tuner. CD : Compact disc player. MD/TAPE 1 :Tape deck or Mini disc recorder connected to MD/TAPE 1/CD-R inputs/outputs.

TUNER : The built-in tuner. PHONO : Turntable. VIDEO : Video camera (etc.) connected to the VIDEO INPUT on the front panel. VCR 1 : Video cassette recorder connected to VCR 1 inputs. VCR 2 : Video cassette recorder or other component connected to VCR 2 inputs.



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& Tuner control buttons (See p.46-52) CLASS : Press repeatedly to switch the preset station classes. FM/AM : Press to select the AM or FM band. TUNING +/- : Use to manually tune into radio stations.

PREPARATION * STATION +/- buttons (See p.48-50) Use to choose programmed radio stations. (MEMORY button (See p.48) Press to start the memorization of a preset station.) CHARACTER/SEARCH button Press to select the character input mode, or initiate an RDS PTY search (see "Memorizing a broadcast station name" on p.50 and "Searching for a program by program type (PTY) on p.52). = MASTER VOLUME Adjusts the overall receiver volume. ~ EXTERNAL DECODER IN button (See p.43) Use to hook up an external component that can decode other types of signals and input them into the receiver. _ TAPE 2 MONITOR button (See p.65) Selects the tape deck (MD recorder, etc.) connected to the TAPE 2 MONITOR inputs/ outputs. Allows monitoring of a recording as it is being made. + INPUT ATT button Use to lower the input level of an analog signal that is too powerful, thus causing the receiver to distort (the OVER indicator will light furiously).

! DIRECT button Switches direct playback on or off. Use to bypass the tone controls and channel level for the most accurate reproduction of a program source. It will automatically put the receiver in the STEREO mode for that function. j TREBLE (+/-) buttons (See p.45) Use to adjust the high frequencies. @ LOUDNESS button (See p.44) Switches the LOUDNESS mode on or off. TM BASS (+/-) buttons (See p.45) Use to adjust low frequencies. # MIDNIGHT button (See p.43) Switches the MIDNIGHT listening mode on or off. £ SPEAKERS (A/B) buttons A is the primary setting. It plays all speakers hooked up to the A system. A and B setting only plays the front speakers of both the A and B systems and the sub-woofer. Multi channel sources will be down-mixed to these speakers so no sound will be lost.

B setting only plays the front speakers connected to the B system and Multi channel sources will be down-mixed to these two speakers. A B A+B OFF \$ DIGITAL NR button (See p.42) Switches the DIGITAL NR on or off (STEREO mode only). % SIGNAL SELECT button (See p.41) Use to select the signal from the digital components. Press SIGNAL SELECT repeatedly to select one of the following: ANALOG : To select an analog signal. DIGITAL : To select an optical or coaxial digital signal. AC-3 RF: To select an AC-3 RF signal. AUTO: This is the default. If there are both analog and digital input signals, the receiver automatically selects the best possible signal.

€ VIDEO INPUT jacks (See p.9) S-VIDEO : Video input for connecting a video camera (etc.), that has an S-Video out. VIDEO / AUDIO (L/R) : Video input for connecting a video camera, etc. that has standard video/audio outputs.

^ RF ATT button (See p.46) Press to turn the RF attenuator on when receiving strong FM signals (nearby stations) to reduce sound distortion. Normally, set the RF attenuator to off. This button does not affect AM reception. PHONES jack Connect headphones for private listening (no sound will be heard through the speakers).

19 Displays and Controls Display All the display information is explained here. 23 4 5 67 MIDNIGHT 8 9 PRO LOGIC 0 VOLUME - 1 SIGNAL ATT LOUDNESS SELECT OVER H.P ANALOG SP AB EON DIGITAL RF ATT RDS AC-3RF MONO STEREO AUTO TUNED AMFM L LS C S R RS LFE DSP STEREO DIGITAL MPEG dB TAPE 2 AC-3DTS MPEG = ~! @ # 1 SIGNAL SELECT indicators Light to indicate the type of input signal assigned for the current component (see "Front Panel", %, SIGNAL SELECT). ANALOG : Lights when an analog signal is selected. DIGITAL : Lights when a digital audio signal is selected (DVD/LD, CD, MD/TAPE1, TV/SAT, VCR 1, VCR 2). AC-3RF: Lights when an AC-3 RF signal is selected (DVD/LD, TV/SAT, VCR 1, VCR 2). AUTO: Lights when the receiver is set to select the input signal automatically (DVD/LD, CD, MD/TAPE 1, TV/SAT, VCR 1, VCR 2). AC-3 : Lights when a source with Dolby Digital signals is played. DTS : Lights when a source with DTS audio signals is played. MPEG: Blinks when the MPEG mode is selected, and lights when a source with MPEG audio signals is played.

3 Analog level indicators OVER : If "ANALOG" is selected in SIGNAL SELECT, this indicator lights to show that an excessively strong signal is being processed. When this occurs, press INPUT ATT on the front panel to attenuate (lower) the signal. Also, when "DIGITAL" is selected in SIGNAL SELECT, this indicator lights to show that a source containing an excessive amount of information is being processed. If this occurs, see p. 38. ATT : Lights when INPUT ATT is used to reduce the level of the input signal (available in ANALOG mode only). 4 LOUDNESS indicator (See p.44) Lights when the LOUDNESS mode is on. 5 MIDNIGHT indicator (See p.43) Lights when the MIDNIGHT listening mode is on.

6 Radio Frequency/Source indicator Displays the source or the frequency of the current radio station. 2 Speaker indicators Light to indicate the current speaker system (see "Front Panel", £ SPEAKERS (A/B)). , SP # A : Lights when speaker system A is selected. SP # B : Lights when speaker system B is selected. SP # AB : Lights when speaker systems A and B are both selected.

7 DSP indicator (See p.37-38) Lights when a DSP or Advanced Theater mode is selected. 8 STEREO indicator (See p.37-38) Lights when a Stereo mode is selected. 20 Displays and Controls 9 2 Surround/dts (MPEG) mode indicators 2 DIGITAL : When the 2 Surround/dts mode on the receiver is on, this indicator lights to indicate playback of a Dolby Digital signal.

However, 2 PRO LOGIC lights during 2 channel playback of Dolby Digital. 2 PRO LOGIC : When the 2 Surround/dts mode on the receiver is on, this indicator lights during 2 channel playback. The indicator does not light when both the A + B speaker systems, just the B speaker system, or the headphones are selected for playback. dts : Lights when DTS signals are input. THX: Lights when the HOME THX CINEMA mode is selected. MPEG: Lights when the MPEG mode is selected. (2 Surround/dts (MPEG) mode is ON) 0 MASTER VOLUME indicator Displays current level of master volume. PREPARATION - TAPE 2 indicator (See p.65) Lights when the TAPE 2 monitor is on. = Program format indicator When a Dolby Digital or DTS signal is input, the following indicators light to show the channels being played back.

L : Left front*1*2, C : Center*1, R : Right front*1*2, LS : Left surround*1, S : Surround (mono)*2, RS : Right surround*1 *1: Indicates 5.1ch Dolby Digital playback. *2: Indicates Dolby Pro Logic playback. ~ LFE indicator LFE (Low Frequency Effects) indicator lights to indicate that the program source contains an LFE channel. The indicator under the LFE lights during actual playback of the LFE signals (LFE signals are not present in all parts of the soundtrack).



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! Tuner/FM/AM indicators MONO : Lights when the tuner is set to receive FM broadcasts with the MONO mode selected. STEREO : Lights when a FM stereo broadcast is received in the auto stereo mode. TUNED : Lights when a broadcast is received. AM/FM : Light to indicate the current band (FM or AM). EON: Lights when an RDS stations transmitting the EON data service is being received.

RF ATT: Lights when the RF attenuator is on. RDS: Lights when RDS broadcast is being received. @ H.P (headphones) Lights when headphones are connected to the PHONES jack (speakers A and B turn off automatically). # Character display Displays sound modes, general information, etc. 21 Displays and Controls Remote Control These pages describe the buttons on the remote control used to operate the receiver. 1 SOURCE button (See p.58-64) =- Î SOURCE RECEIVER MULTI OPERATION SYSTEM OFF Use to turn on the power of your other components after you have recalled or taught the signals to this remote control. 2 MULTI CONTROL buttons 1 DVD/LD ! VCR2 TV CONT DIRECT ACCESS TV/SAT VCRI 2 3 MULTI CONTROL Use these buttons to select a source and the corresponding remote operation mode. For example, pressing the TUNER button selects the built-in tuner and sets the remote control in the tuner operation mode.

CD CLASS MD/ TAPE1 MPX TUNER BAND 7 ¶ - TUNING + 1 ; 3 8 - STATION + 4 ¢ - CHANNEL + 3 Component control buttons [Tuner control] CLASS: Press repeatedly to switch the preset station classes. MPX: Press to switch between auto stereo and MONO reception of FM broadcasts. BAND: Press to select AM or FM band. DIRECT ACCESS: Press to activate the direct access tuning mode. TUNING +/-: Use to manually tune into radio stations. STATION +/-: Use to choose programmed radio stations. 1 4 7 2 5 8 0 3 6 9 DISC DISPLAY @ # \$ % ^ & * () 4 5 6 +10 RF ATT TV TV VOL TV CONTROL VOLUME TV FUNC 4 RF ATT button (See p. 46) Press to turn the RF attenuator on when receiving strong FM signals (nearby stations) to reduce sound distortion. Normally, set the RF attenuator to off. This button does not affect AM reception.

EFFECT /CH SEL MENU MUTE 7 8 9 0 SYSTEM SETUP REMOTE SETUP FUNCTION ENTER SIGNAL SELECT 2/dts THX ADVANCED STANDARD MPEG MIDNIGHT DSP STEREO DIGITAL NR 5 TV CONTROL buttons The following buttons are used to control the TV only and can be used no matter what function the remote control is set to. TV : Press to turn the power of the TV on/off. TV FUNC : Press to select the TV for remote control operation. TV VOL +/- : Press to control the volume of the TV. AV PREPROGRAMMED AND LEARNING REMOTE CONTROL UNIT 6 MENU button Use to display various menus on the TV screen. 7 EFFECT/CH SEL +/- buttons (See p.38) EFFECT : Use these buttons to increase or decrease the amount of effect applied in a DSP or Advanced Theater mode. When the amount of effect is increased in a DSP/Advanced Theater mode, the characteristics of that mode become stronger and more noticeable. The scale ranges from 10-90 with 70 as the default setting. First turn on the DSP or ADVANCED Theater mode (by pressing the *DSP or Advanced button until you get the mode) and then increase or decrease the amount of effect.

CH SEL : You may want to adjust the channels when listening to some sound sources. Use this button to select the channel you want to adjust. +/- : Use these buttons to select the amount of effect in a sound mode or to adjust the channel level when making surround sound settings. 22 Displays and Controls 8 5//2/3/ENTER buttons Use to operate the on-screen menu on your TV screen and enter commands when setting up surround sound, speakers levels & settings, and other setup features (see p.25-34).

Specific use of these buttons is described in conjunction with the operations they perform. For more information see each section. # DISC/DISPLAY button Press to switch the RDS data while listening to an FM station. Each press changes the display mode in the order of RT, PS, PTY, and frequency. This button can perform a variety of different functions depending on the remote operation mode.

PREPARATION 9 SYSTEM SETUP button Use to set up the speaker and sound systems. For more information see "Surround Sound Setup" starting on p. 24. \$ VOLUME button Use to raise or lower the volume of the receiver. % MUTE button Press to mute or restore the volume. 0 REMOTE SETUP button. Use to customize the remote control functions and the remote control itself. (See "Setting Up the Remote Control to Control Other Components" on p.54, "Multi Operation" on p. 67.

) Press the SIGNAL SELECT and REMOTE SETUP buttons simultaneously to switch from the SIGNAL SELECT operation to EXTERNAL DECODER operation. Then press the button to get the EXTERNAL DECODER function. To get back to the SIGNAL SELECT control, press the REMOTE SETUP button and the SIGNAL SELECT button simultaneously once again. ^ FUNCTION button Press to select a source. The button will cycle through all the possible sources. & SIGNAL SELECT button Press SIGNAL SELECT repeatedly to select one of the following: ANALOG : To select an analog signal. DIGITAL : To select a digital signal (DVD/LD, TV/SAT, CD, MD/TAPE 1, VCR 1, VCR 2). AC-3 RF: To select an AC-3 RF signal (DVD/LD, TV/SAT, VCR 1, VCR 2).

AUTO: This is the default. If there are both analog and digital input signals, the receiver automatically selects the best possible signal. Press the SIGNAL SELECT and REMOTE SETUP buttons simultaneously to switch from the SIGNAL SELECT operation to EXTERNAL DECODER operation. Then press the button to get the EXTERNAL DECODER function. To get back to the SIGNAL SELECT control, press the REMOTE SETUP button and the SIGNAL SELECT button simultaneously once again. - MIDNIGHT button (See p. 43) Switches the MIDNIGHT listening mode on or off. = MULTI OPERATION button Use this button to start the MULTI OPERATION mode. See p. 67 for how to program and use the MULTI OPERATION mode.

~ SYSTEM OFF button This button turns off components in two ways. First, when pressed, it will turn off all PIONEER components. Secondly, any component that has programmed into the SYSTEM OFF settings will also be turned off (see p.69). For example :If you programmed power-on for your TV and VCR, pressing the SYSTEM OFF button will turn off these components even if they are not PIONEER products. * 2/dts buttons (See p.36, 38, 72-74) Press these buttons to put the receiver in the selected sound mode. For more information on the modes, see "Sound modes" starting on p.36. (STEREO/DIGITAL NR button STEREO : Press this button to put the receiver into the stereo mode when it's in a different sound mode. For more information on the sound modes (see p.38).

DIGITAL NR : Switches the DIGITAL NR on or off (see p.42). ! RECEIVER button Press to turn power of the receiver on or to STANDBY (off).



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) DSP button (See p.37-38) Press repeatedly to select a DSP sound mode. @ Number buttons These buttons can perform a variety of different functions depending on the remote operation mode. They are most useful for CD player and tuner operations. 23 Surround Sound Set Up On Screen Display There are a number of possible ways to hook up the receiver to your video components, like a DVD player, and hook up to your receiver to your TV, but some of them will not allow you to use the on-screen display of this unit. To avoid this, you simply need to keep the following rules: 1 Always use the same type of video cords to hook up your video components to the receiver as you use to hook up the receiver to your TV. For example, if you use composite video cords to hook up your DVD player to the receiver, use composite video cords to hook up the receiver to your TV.

If you use S video cords to hook up your DVD player and the receiver, use S video cords to hook up the receiver to your TV. 2 Always make sure your TV is set to the appropriate input channel (for example, video 1). Your TV may have a number of input channels and if you do not select the proper one, you will not be able to use this receiver's on-screen display, or, in fact see any picture from this receiver at all. If you are unsure how to choose an input channel for your TV, refer to the manual which came with your TV. You might, for example, use both composite and S video cords to hook up your video components with this receiver and then use composite video cords to hook up this receiver to your TV.

This arrangement would still NOT let you see the on-screen displays from this receiver on your TV. The best idea is just to use one type of video cords for all your video component and TV hook ups. Switching video system between PAL and NTSC This receiver is able to use two types of video systems for its OSD (on screen display) and you need to set the receiver to the type of video system you have, either PAL or NTSC. If you do not match the system on the receiver with your home system no OSD will appear on your TV. People with multi-system TVs, do not need to worry about changing the setting.

If necessary, follow the instructions below to switch the type of video system. 1 STANDBY/ON Put the receiver in the STANDBY mode. While holding down the LOUDNESS button, press the STANDBY/ON button. The video system type, either "PAL" or "NTSC", appears in the display. It will be shown for about seven seconds and then the receiver reverts to normal operating mode. Be careful to press the LOUDNESS button and NOT the DIRECT button, which will accidentally clear all your speaker settings (see warning p.73). 2 AUDIO/VIDEO MULTI-CHANNEL RECEIVER STANDBY/ON STANDBY DSP MODE STEREO /DTS THX CINEMA ADVANCED STANDARD --OFF _ON MPEG 5-CHANNEL EQUAL POWER OUTPUT S-VIDEO PHONES VIDEO INPUT VIDEO L AUDIO R EXTERNAL DECODER IN DIRECT LOUDNESS MIDNIGHT DIGITAL NR SIGNAL SELECT RF ATT CLASS FM/ SPEAKERS BASS + TREBLE + TAPE 2 CHARACTER INPUT ATT MONITOR /SEARCH MEM LOUDNESS SIGNAL SELECT SP DIGITAL A VOLUME dB When a PAL system is selected SIGNAL SELECT SP DIGITAL A VOLUME dB When a NTSC system is selected · When using the PAL setting the OSD does not get displayed in color. 24 Surround Sound Set Up Setting Up for Surround Sound To ensure the best possible surround sound, be sure to complete the following setup operations. This is particularly important when using the HOME THX CINEMA, DTS, 2 (Dolby) surround and MPEG sound modes.

You only need to make these settings once. These setup operations use your TV to display the settings and choices. Be sure your TV and receiver are properly hooked up. That gets them out of the way and you will not need to return to this setting mode unless you change your home setup by adding new speakers (etc.). The sound setup modes explained here are: Speaker Setting (See p.26-27) Use to specify the type and number of speakers you connected. Channel Delay (See p.28) Set up all your speakers for the most realistic surround sound. Adding a slight delay to some speakers enhances sound separation and is particularly important for achieving a surround sound effect.

You need to figure out the distance from your listening position to your speakers to add the proper delay. Channel Level (See p.29-30) Use to balance the volumes of your different speakers. Crossover Network (See p.31) This feature lets you select which bass frequencies will be sent to the sub woofer or front speakers.

Bass Peak Level Manager (See p.32) Dolby Digital and DTS audio sources include ultra-low bass tones. Set the bass peak level as needed to prevent the ultra-low bass tones from distorting the sound from the speakers. D-Range Control (See p.33) This feature makes possible excellent surround sound effects when listening to Dolby Digital sources at low volumes.

Digital-In Select (See p.34) In order to use your digital components you must match the numbered digital input buttons with the numbered digital jacks used by your digital components. SET UP \hat{I} SOURCE MULTI OPERATION SYSTEM OFF RECEIVER 1 1 2 Turn on the receiver and your TV. Make sure your TV is set to the receiver mode. DVD/LD TV/SAT VCR1 VCR2 MULTI CONTROL CD CLASS MD/ TAPE1 MPX TUNER BAND TV CONT DIRECT ACCESS Press the SYSTEM SETUP button. The System Setup menu appears on your TV screen. 7 \mathbb{H} - TUNING + 1 ; 3 8 - STATION + 4 ϵ - CHANNEL + 1 4 7 +10 RF ATT 2 5 8 0 3 6 9 DISC DISPLAY System Setup [Speaker Setting] [Channel Delay] [Channel Level] [Crossover Network] [Bass Peak Level Manager] [D-Range Control] [Digital-In Select] TV TV VOL TV CONTROL VOLUME TV FUNC EFFECT /CH SEL MENU MUTE FUNCTION SIGNAL SELECT ENTER SIGNAL SELECT STEREO A VOLUME ANALOG SP AUTO dB 2 2/dts SYSTEM SETUP THX ADVANCED STANDARD MPEG REMOTE SETUP MIDNIGHT DSP STEREO DIGITAL NR AV PREPROGRAMMED AND LEARNING REMOTE CONTROL UNIT To escape from this screen Press the SYSTEM SETUP button at any time again. None of the settings you made will be entered in this case. 25 Surround Sound Set Up \hat{I} SOURCE MULTI OPERATION SYSTEM OFF RECEIVER 1 3 Press the 5 or buttons to move the hand to the mode you want, and press the ENTER button. In each mode, the current settings are displayed automatically.

We suggest you adjust all these settings when you first hook up the receiver. DVD/LD TV/SAT VCR1 VCR2 MULTI CONTROL CD CLASS MD/ TAPE1 MPX TUNER BAND TV CONT DIRECT ACCESS 7 \mathbb{H} - TUNING + 1 ; 3 8 - STATION + 4 ϵ - CHANNEL + 1 4 7 +10 RF ATT 2 5 8 0 3 6 9 DISC DISPLAY 4 Go on to the next page to continue setup. To exit the System Setup mode and on-screen display Press SYSTEM SETUP button again.



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TV TV VOL TV CONTROL VOLUME TV FUNC EFFECT /CH SEL MENU MUTE FUNCTION 3 SYSTEM SETUP REMOTE SETUP ENTER SIGNAL SELECT 2/dts THX ADVANCED STANDARD MPEG MIDNIGHT DSP STEREO DIGITAL NR After you complete one of the "System Setup" menu items and return to the basic System Setup screen, the receiver automatically moves the cursor to the next System Setup menu item. For example, if you've completed Speaker Setting and returned to the basic System Setup screen, Channel Delay will be selected automatically. You can notice this on your TV screen. AV PREPROGRAMMED AND LEARNING REMOTE CONTROL UNIT Speaker Setting The following steps show you how to specify the type of speakers you connected. Use the 5¥ and 2¥3 buttons to make a selection within the on-screen menus, and use the ENTER button to register the information. Depending on your choices the sound will be routed differently, as explained here. FRONT (default setting is LARGE) · Select SMALL to send bass frequencies to the sub woofer.

· Select LARGE if your speakers will reproduce bass frequencies effectively or if you did not connect a sub woofer. (If you select SMALL for the front speakers, the sub woofer will automatically be switched on. Also, the center and surround speakers cannot be set to LARGE if the front speakers are set to SMALL. In this case, all bass frequencies are sent to the sub woofer.) CENTER (default setting is LARGE) · Select LARGE if your speaker will reproduce bass frequencies effectively. · Select SMALL to send bass frequencies to the other speakers or sub woofer. · If you did not connect a center speaker, deselect it (NO). In this case, the center channel is output from the front speakers. SURROUND (default setting is LARGE) · Select LARGE if your speakers will reproduce bass frequencies effectively. · Select SMALL to send bass frequencies to the other speakers or sub woofer.

· If you did not connect surround speakers, deselect them (NO). In this case, the sound of the surround channels is output from the front and center speakers. SUB WOOFER (default setting is YES) · Leave it selected (YES) if you connected a sub woofer. · If you did not connect a sub woofer, deselect it. In this case, the bass frequencies are output from the front or surround speakers. · Choose the PLUS setting if you want stronger reproduction of deep bass sounds. · If you select PLUS, the bass frequencies that would normally come out from the front and center speakers are all routed to the sub woofer. 26 Surround Sound Set Up 1 SOURCE MULTI OPERATION SYSTEM OFF RECEIVER 1 Select Speaker Setting with the 5¥ buttons and press the ENTER button. See "Setting Up for Surround Sound" on p.25-26 if you are unsure how to do this.

Speaker Setting [FREE] Front L Center Surround Subwoofer [EXIT] [THX] [LARGE] [LARGE] [LARGE] [YES] DVD/LD TV/SAT VCR1 VCR2 MULTI CONTROL CD CLASS MD/TAPE1 MPX TUNER BAND TV CONT DIRECT ACCESS 7 ¶ - TUNING + 1 ; 3 8 - STATION + 4 ¢ - CHANNEL + 1 4 7 +10 RF ATT 2 5 8 0 3 6 9 DISC DISPLAY TV TV VOL TV CONTROL VOLUME TV FUNC EFFECT /CH SEL MENU MUTE FUNCTION 1-4 SYSTEM SETUP REMOTE SETUP 2 ENTER SIGNAL SELECT 2/dts Select a speaker setting mode with the 2¥3 buttons and press the button. To specify each speaker individually Select FREE. If you connected a complete set of THX speakers Select THX and skip to step 4. Speaker Setting [FREE] Front L Center Surround Subwoofer [EXIT] [THX] [LARGE] [LARGE] [LARGE] [YES] THX ADVANCED STANDARD MPEG MIDNIGHT DSP STEREO DIGITAL NR SET UP AV PREPROGRAMMED AND LEARNING REMOTE CONTROL UNIT 3 Specify the type of speakers you connected. See the explanations on the previous page for the meaning of each size. 1 Press 2 or 3 to move the hand to LARGE, SMALL, or NO (you cannot select NO for the FRONT speakers). 2 Press . 3 Repeat 1 and 2 for each speaker. 4 Select EXIT with the 5¥ buttons and press the ENTER button to return to the System Setup menu. Next, proceed to Channel Delay on the next page.

If you want to change a setting before proceeding Simply use the 5¥ buttons before pressing the ENTER button to go back. If you have a sub woofer and like lots of bass, it may seem logical to select LARGE for your FRONT speakers and leave the sub woofer selected. This may not, however, yield the best bass results. Depending on the size and shape of your room you may actually experience a decrease in the amount of bass due to what is called "low frequency cancellations." If you have a sub woofer, listen to the bass response with the FRONT speakers set to LARGE and SMALL alternatively and let your ears judge which sounds best.

The safest option in this case is to route all the bass sounds to the sub woofer by selecting SMALL for the FRONT speakers. 27 Surround Sound Set Up Channel Delay Adding a slight delay to some speakers is necessary to achieve a surround sound effect. You need to figure out the distance from your listening position to your speakers to add the proper delay. The following steps show you how to set the delay time for each channel by specifying the distances from your listening position to each speaker. Once you specify the speaker distances, the receiver calculates the correct delay times automatically.

If continuing from Speaker Setting, go to step 1. If starting fresh, complete steps 1-3 in "Setting Up for Surround Sound" (p.25-26) first. 1 SOURCE MULTI OPERATION SYSTEM OFF RECEIVER 1 Select Channel Delay (if continuing from last set up, it will already be selected), and press the ENTER button. See "Setting Up for Surround Sound" on page 25-26 if you are unsure how to do this. Channel Delay Front L L Center Front R Surround R Surround L Subwoofer [EXIT] [3.0m] [3.0m] [3.0m] [3.0m] [3.

0m] [3.0m] DVD/LD TV/SAT VCR1 VCR2 MULTI CONTROL CD CLASS MD/TAPE1 MPX TUNER BAND TV CONT DIRECT ACCESS 7 ¶ - TUNING + 1 ; 3 8 - STATION + 4 ¢ - CHANNEL + 1 4 7 +10 RF ATT 2 5 8 0 3 6 9 DISC DISPLAY TV TV VOL TV CONTROL VOLUME TV FUNC EFFECT /CH SEL MENU MUTE FUNCTION The default setting is 3.0 m. 1-5 SYSTEM SETUP REMOTE SETUP ENTER SIGNAL SELECT 2/dts 2 3 Select a speaker with the 5¥ buttons. Specify the distance from your listening position with the 2/3 buttons. THX ADVANCED STANDARD MPEG MIDNIGHT DSP STEREO DIGITAL NR AV PREPROGRAMMED AND LEARNING REMOTE CONTROL UNIT Pressing the 2/3 buttons will adjust the speaker distance in 0.3 m increments from 0.3 to 0.9 m. 4 Repeat the above steps 2 and 3 for each speaker.

Sound takes about 1 ms (millisecond) to travel 0.3 m. 5 Select EXIT with the 5¥ buttons and press the ENTER button to return to the System Setup menu.



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Next, proceed to Channel Level on the next page. If you want to change a setting before proceeding Simply use the 5¥ buttons before pressing the ENTER button to go back.

28 Surround Sound Set Up Channel Level The following steps show you how to balance the sound output level of your speakers. Proper speaker balance is essential for obtaining high quality surround sound. If continuing from Channel Delay, go to step 1. If starting fresh, complete steps 1-3 in "Setting Up for Surround Sound" (p.25-26) first.

Î SOURCE MULTI OPERATION SYSTEM OFF RECEIVER 1 DVD/LD TV/SAT VCR1 VCR2 MULTI CONTROL Select Channel Level (if continuing from Channel Delay, it will already be selected), and press the ENTER button. See "Setting Up for Surround Sound" on page 25-26 if you are unsure how to do this. Channel Level Test Tone [AUTO] [Setting Start] CD CLASS MD/ TAPE1 MPX TUNER BAND TV CONT DIRECT ACCESS 7 ¶ - TUNING + 1 ; 3 8 - STATION + 4 ¢ - CHANNEL + 1 4 7 +10 RF ATT 2 5 8 0 3 6 9 DISC DISPLAY [EXIT] TV TV VOL TV CONTROL VOLUME TV FUNC EFFECT /CH SEL SET UP MENU MUTE FUNCTION 1,2 SYSTEM SETUP REMOTE SETUP ENTER SIGNAL SELECT 2/dts 2 THX ADVANCED STANDARD MPEG Select a Test Tone mode (AUTO or MANU) with the 2/3 buttons. AUTO (automatic Test Tone) This mode switches the test tone between each speaker automatically.

Use this mode when balancing the speaker levels by ear. The automatic test tone is output in the following order: FL SW CT SL FR SR MIDNIGHT DSP STEREO DIGITAL NR AV PREPROGRAMMED AND LEARNING REMOTE CONTROL UNIT MANUAL (manual Test Tone) This mode switches the test tone between each speaker manually. You can use this mode when you want to balance the speaker levels by ear at your pace. If your subwoofer has a volume control, set it to the middle position before proceeding. 29 Surround Sound Set Up Î SOURCE MULTI OPERATION SYSTEM OFF RECEIVER 3 Select Setting Start with the 5/ buttons, and press the ENTER button. The Test Tone will be output.

These settings will be displayed on your TV. Channel Level Test Tone [AUTO] [Setting OK] Front L L [0dB] [0dB] Center [0dB] Front R Surround R [0dB] Surround L [0dB] [0dB] Subwoofer SIGNAL SELECT ANALOG SP A DVD/LD TV/SAT VCR1 VCR2 MULTI CONTROL CD CLASS MD/ TAPE1 MPX TUNER BAND TV CONT DIRECT ACCESS 7 ¶ - TUNING + 1 ; 3 8 - STATION + 4 ¢ - CHANNEL + 1 4 7 +10 RF ATT 2 5 8 0 3 6 9 DISC DISPLAY TV TV VOL TV CONTROL VOLUME TV FUNC EFFECT /CH SEL MENU MUTE STEREO VOLUME FUNCTION dB AUTO 3-6 SYSTEM SETUP REMOTE SETUP ENTER SIGNAL SELECT 2/dts THX ADVANCED STANDARD MPEG MIDNIGHT DSP STEREO DIGITAL NR It takes a moment for the machine to set itself. The MASTER VOLUME dial rotates to the reference position (0 dB), and the test tone is output. To exit before outputting the Test Tone Press the ENTER button. To exit while outputting the Test Tone Press the ENTER or SYSTEM SETUP button. AV PREPROGRAMMED AND LEARNING REMOTE CONTROL UNIT 4 Adjust speaker levels so that you hear the test tone at the same volume from each speaker when seated in your main listening position. The volume of the sub woofer tends to sound lower than it actually is. You may need to raise its level after testing the sound with actual soundtracks. In the AUTO mode 1 Press the 2 or 3 button to adjust the level of the speaker outputting the Test Tone. In the MANU mode 1 Press the 2 or 3 button to adjust the level of the first speaker.

2 Press the 5¥ button to switch the Test Tone to the next speaker. 3 Repeat 1 and 2 for each speaker. If you are using a Sound Pressure Level (SPL) meter Take the readings from your listening position and adjust the level of each speaker to 75 dB (C-weighted/slow model). It is possible to set channel levels independently for 2/ dts, STEREO, EXTERNAL DECODER and each DSP mode for listening-once purposes (see p.22 7).

This function is designed to be used to change the levels temporarily to hear on speaker louder. Return the settings to their original state when done. 5 When you have adjusted each speaker level, select Setting OK and press the ENTER button to return to the previous screen. The VOLUME will return to its original position. 6 Select EXIT with the 5¥ buttons and press the ENTER button to return to the System Setup menu.

Next, proceed to Crossover Network on the next page. If you want to change a setting before proceeding Simply use the 5¥ buttons before pressing the ENTER button to go back. 30 Surround Sound Set Up Crossover Network The following steps show you how to adjust the crossover network. The crossover network is the frequency at which the system divides the signal and sends the different parts (high ,mid, low) to different speakers. Speaking precisely, this setting sets the cutoff point for the bass frequencies rerouted from your SMALL speakers to your sub woofer or speakers set to LARGE. Setting speakers to SMALL in "Speaker Setting" sends the respective channel's bass frequencies to the sub woofer (or LARGE speakers). If continuing from Channel Level, go to step 1. If starting fresh, complete steps 1-3 in "Setting Up for Surround Sound" (p.25-26) first. Î SOURCE MULTI OPERATION SYSTEM OFF RECEIVER 1 DVD/LD TV/SAT VCR1 VCR2 MULTI CONTROL Select Crossover Network (if continuing from Channel Level, it will already be selected) and press the ENTER button.

See "Setting Up for Surround Sound" on page 25-26 if you are unsure how to do this. Crossover Network CD CLASS MD/ TAPE1 MPX TUNER BAND TV CONT DIRECT ACCESS 7 ¶ - TUNING + 1 ; 3 8 - STATION + 4 ¢ - CHANNEL + 1 4 7 +10 RF ATT 2 5 8 0 3 6 Frequency 9 DISC DISPLAY [80Hz] (THX Speaker = 80Hz) [EXIT] TV TV VOL TV CONTROL VOLUME TV FUNC SET UP EFFECT /CH SEL MENU MUTE FUNCTION 1-3 SYSTEM SETUP REMOTE SETUP ENTER SIGNAL SELECT 2/dts The default setting is 80 Hz. STANDARD MPEG THX ADVANCED 2 MIDNIGHT DSP STEREO DIGITAL NR Select the crossover frequency for your small speakers with the 2/3 buttons, and press the button. Setting speakers to SMALL in "Speaker Setting" sends the respective channel's bass frequencies to the sub woofer (or LARGE speakers). 80 Hz Sends bass frequencies below 80 Hz to the sub woofer (or LARGE speakers). 100 Hz Sends bass frequencies below 100 Hz to the sub woofer (or LARGE speakers). 150 Hz Sends bass frequencies below 150 Hz to the sub woofer (or LARGE speakers). As noted on your TV screen the THX setting is 80. Select this setting if you have THX approved SMALL speakers. Experiment with the different settings to see which sounds best to you.



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