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You can read the recommendations in the user guide, the technical guide or the installation guide for SONY STR-KS2300. You'll find the answers to all your questions on the SONY STR-KS2300 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual SONY STR-KS2300
User guide SONY STR-KS2300
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Instruction manual SONY STR-KS2300

SONY

3-296-084-12(1)

■ Home Theatre
■ System

Operating Instructions

HT-SF2300
HT-SS2300

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Manual abstract:

@@Model No. _____ Serial No. @@@@To reduce the risk of fire or electric shock, do not expose this apparatus to dripping or splashing, and do not place objects filled with liquids, such as vases, on the apparatus. Do not install the appliance in a confined space, such as a bookcase or built-in cabinet. As the main plug is used to disconnect the unit from the mains, connect the unit to an easily accessible

AC outlet. Should you notice an abnormality in the unit, disconnect the main plug from the AC outlet immediately. @@@@This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures: Reorient or relocate the receiving antenna. Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. Consult the dealer or an experienced radio/TV technician for help. 2GB CAUTION You are cautioned that any changes or modification not expressly approved in this manual could void your authority to operate this equipment. Disposal of waste batteries (applicable in the European Union and other European countries with separate collection systems) This symbol on the battery or on the packaging indicates that the battery provided with this product shall not be treated as household waste. By ensuring these batteries are disposed of correctly, you will help prevent potentially negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of the battery.

The recycling of the materials will help to conserve natural resources. In case of products that for safety, performance or data integrity reasons require a permanent connection with an incorporated battery, this battery should be replaced by qualified service staff only. To ensure that the battery will be treated properly, hand over the product at end-of-life to the applicable collection point for the recycling of electrical and electronic equipment. For all other batteries, please view the section on how to remove the battery from the product safely. Hand the battery over to the applicable collection point for the recycling of waste batteries.

For more detailed information about recycling of this product or battery, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product. Note to CATV system installer: This reminder is provided to call CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. For customers in Europe Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems) This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local Civic Office, your household waste disposal service or the shop where you purchased the product. Notice for the customer in the countries applying EU Directives The manufacturer of this product is Sony Corporation, 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan. The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany. For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

3GB About This Manual · The instructions in this manual are for model HT-SF2300 and HT-SS2300. In this manual, models of area code CEL is used for illustration purposes unless stated otherwise. Any difference in operation is clearly indicated in the text, for example, "Models of area code CEL only". The HT-SF2300 consists of: · Receiver · Speaker system) Front speaker Center speaker Surround speaker Subwoofer STR-KS2300 SS-MSP23F SS-CNP23 SS-SRP23F SS-WP23 STR-KS2300 SS-MSP23S SS-CNP23 SS-SRP23S SS-WP23 This receiver incorporates Dolby* Digital and Pro Logic Surround and the DTS** Digital Surround System. * Manufactured under license from Dolby Laboratories. Dolby, Pro Logic and the double-D symbol are trademarks of Dolby Laboratories. ** Manufactured under license under U.S. Patent #'s: 5,451,942; 5,956,674; 5,974,380; 5,978,762; 6,487,535 & other U.S. and worldwide patents issued & pending. DTS and DTS Digital Surround are registered trademarks and the DTS logos and Symbol are trademarks of DTS, Inc. © 1996-2007 DTS, Inc. All Rights Reserved. This receiver incorporates High-Definition Multimedia Interface (HDMI) technology. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC. "x.v.Colour" and "x.v.Colour" logo are trademarks of Sony Corporation. "BRAVIA" and Sony Corporation. are trademarks of The HT-SS2300 consists of: · Receiver · Speaker system) Front speaker Center speaker Surround speaker Subwoofer a) Be sure to use only the supplied speakers. · The instructions in this manual describe the controls on the supplied remote. You can also use the controls on the receiver if they have the same or similar names as those on the remote. About area codes The area code of the receiver you purchased is shown on the lower portion of the rear panel (see the illustration below). SPEAKERS FRONT R FRONT L SUR R SUR L CENTER SUBWOOFER Area code Any differences in operation, according to the area code, are clearly indicated in the text, for example, "Models of area code AA only". 4GB Note for the supplied remote RM-AAU022 (Models of area code U, UC, CA only) RM-AAU023 (Models of area code CEL, CEK, AU, TW, TH only) 5GB Table of Contents Getting Started Description and location of parts.



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.... 75 Getting Started Getting Started Description and location of parts Receiver Front panel 1 ?/1 2 3 4 5 INPUT SELECTOR 6 MASTER VOLUME ACTIVE STANDBY PRESET TUNING SOUND FIELD MUTING AUTO CAL MIC 0 Name A ?/1 (on/standby) B ACTIVE STANDBY lamp 9 8 7 Function Press to turn the receiver on or off (page 25, 33, 34, 48).

Lights up in amber when the CONTROL FOR HDMI is set to on and the receiver is on standby mode. The current status of the selected component or a list of selectable items appears here (page 8). Name H MASTER VOLUME Function Turn to adjust the volume level of all speakers at the same time (page 31, 32, 33, 34). Press to turn off the sound temporarily. Press MUTING again to restore the sound (page 32). Receives signals from remote commander. I MUTING C Display J Remote sensor D PRESET TUNING Press to select a preset +/- station (page 51). E SOUND FIELD +/- F INPUT SELECTOR +/- G AUTO CAL MIC jack Press to select a sound field (page 45, 46, 48). Press to select the input source to playback (page 32, 33, 34, 49, 50, 51). Connects to the supplied optimizer microphone for the Auto Calibration function (page 27).

continued 7GB About the indicators on the display 12 SLEEP L LFE SL SW 3 C S R 4 5 6 7 D.RANGE MEMORY RDS ST MONO DIGITAL HDMI DTS PL SR OPT COAX qf Name A LFE qd Function qs qa q; Name F Preset station indicators G D.RANGE 9 Function 8 Lights up when the disc being played back contains an LFE (Low Frequency Effect) channel and the LFE channel signal is ac; qa 2CH A.F.D. MOVIE MUSIC 2CH A.F.D. MOVIE MUSIC THEATER THEATRE 1 2 5 8 0/10 3 DVD/BD MENU 1 2 5 8 0/10 3 DVD/BD MENU w; 4 7 6 9 AUTO CAL D.TUNING D.

SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING w; 4 7 6 9 AUTO CAL D.TUNING D.SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING TV VOL MASTER VOL ql qk >10 CLEAR DISPLAY ql qk qj >10 - CLEAR DISPLAY TV VOL MASTER VOL qj qh O MENU/HOME RETURN/EXIT TV CH TV CH + PRESET REPLAY ADVANCE PRESET + < < . > TUNING m TV H TUNING + M FM MODE X x qs qh O RETURN/EXIT MENU/HOME TV CH TV CH + PRESET er, DVD player or Blu-ray disc player. P RETURN/EXIT O REPLAY < / Press to replay the previous ADVANCE < scene or fast forward the current scene of the VCR, DVD player or Blu-ray disc player.

m/Mb) Press to search tracks in the forward/ reverse direction of the DVD player. start fast forward/rewind of the VCR, CD player or Blu-ray disc player. Press to start playback of the VCR, CD player, DVD player, or Blu-ray disc player. Press to pause playback or recording of the VCR, CD player, DVD player or Blu-ray disc player. (Also starts recording with components in recording standby.

) Press to stop playback of the VCR, CD player, DVD player or Blu-ray disc player. Press TV CH +/- and TV (O) at the same time to select preset TV channels. Press to select preset stations. preset channels of the VCR or satellite tuner. Press to scan a station. Press to select the FM monaural or stereo reception. Q, V(w/B/b Ha)b) Xb) R DISPLAY xb) TV CH +/- PRESET +/- TUNING +/- FM MODE 12GB Name S z Function Press to input the decimal point for channel numbers of the Digital CATV terminal. Press z and TV (O) at the same time to input the decimal point for the channel numbers of the TV. Press to select the channel entry mode, either one or two digits of the VCR. Press -/- and TV (O) at the same time to select the channel entry mode, either one or two

digits of the TV.

Press to select the track numbers over 10 of the CD player. Press to clear a mistake when you press the incorrect numeric button. Press to preset/tune to preset stations. select track numbers of the CD player, DVD player or Blu-ray disc player. Press 0/10 to select track number 10. select channel numbers of the VCR or satellite tuner. Press the numeric buttons and TV (O) at the same time to select the TV channels. Press TV INPUT and TV (O) at the same time to select the input signal (TV input or video input). Press to activate the Sleep Timer function and the duration which the receiver turns off automatically. Notes

Some functions explained in this section may not work depending on the model.

The above explanation is intended to serve as an example only. Therefore, depending on the component, the above operation may not be possible or may operate differently than described. (RM-AAU022 only) Getting Started -(RM-AAU023 only) >10 CLEAR T Numeric buttons (number 5a)) U TV INPUT SLEEP a) The number 5, TV VOL +, MASTER VOL + and H buttons have tactile dots. Use the tactile dots as references when operating the receiver. b) This button is also available for DIGITAL MEDIA PORT adapter operation.

For details on the function of the button, see the operating instructions supplied with the DIGITAL MEDIA PORT adapter. 13GB 1: Installing the speakers This receiver allows you to use a 5.1 channel speaker system. To fully enjoy theater-like multi channel surround sound, be sure to connect all the speakers (two front speakers, a center speaker, and two surround speakers) and a subwoofer (5.



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1 channel).

HT-SS2300 only HT-SF2300 only A Front speaker (left) B Front speaker (right) C Center speaker D Surround speaker (left) E Surround speaker (right) F Subwoofer Tip Since the subwoofer does not emit highly directional signals, you can place it wherever you want. 14GB Installing the speakers on a flat surface Before you install the speaker and subwoofer, be sure to attach the supplied foot pads to prevent vibration or movement as shown in the illustration below. Installing the speakers on the speaker stand HT-SS2300 only For greater flexibility in positioning the speakers, use the optional WS-FV11 or WS-FV10D speaker stand (available only in certain countries). For details, refer to the operating instructions supplied with the speaker stand. Getting Started Example of HT-SS2300 front speaker HT-SF2300 only For greater flexibility in positioning the speakers, use the supplied speaker stand. For details, refer to the supplied speaker stand installation guide. HT-SF2300 only You need to attach the supplied foot pads to the center speaker and subwoofer only. HT-SS2300 only You need to attach the supplied foot pads to all the speakers and subwoofer. 15GB Installing the speakers on the wall You can install your speakers on the wall. 3 Hang the speakers on the screws.

Example of installing the speakers on the wall Hook on the back of the speaker 4.6 mm (3/16 inch) 10 mm (13/32 inch) 1 Prepare screws (not supplied) that are suitable for the hook on the back of each speaker. See the illustrations below. 4 mm (3/16 inch) more than 25 mm (1 inch) 4.6 mm (3/16 inch) 10 mm (13/32 inch) Hook on the back of the speaker Notes · Use screws that are suitable for the wall material and strength. As a plaster board wall is especially fragile, attach the screws securely to a beam and fasten them to the wall. Install the speakers on a vertical and flat wall where reinforcement is applied. · Contact a screw shop or installer regarding the wall material or screws to be used. · Sony is not responsible for accident or damage caused by improper installation, insufficient wall strength or improper screw installation, natural calamity, etc. · For HT-SF2300, if you install the speakers on the wall, you do not need to attach the supplied speaker stand.

2 Fasten the screws to the wall. The screws should protrude 5 to 7 mm (7/32 to 9/32 inch). 5 to 7 mm (7/32 to 9/32 inch) 16GB 2: Connecting the speakers Getting Started Before connecting the cords, be sure to disconnect the AC power cord (mains lead). C F A SPEAKERS FRONT R FRONT L SUR R SUR L CENTER SUBWOOFER Connector A A B A E D A Speaker cord (supplied) A Front speaker (left) B Front speaker (right) C Center speaker D Surround speaker (left) E Surround speaker (right) F Subwoofer continued 17GB Note on speaker cords The connector of the speaker cords are the same color as the speaker jack to be connected. When connecting a speaker cord, be sure to match the colored connector to the speaker jack on the receiver: Connector Red White Grey Blue Green Purple Speaker jack FRONT R FRONT L SUR R SUR L CENTER SUBWOOFER To connect the speakers correctly Check the speaker type by referring to the speaker label* at the rear panel of the speakers.

Character on speaker label L R SL SR Speaker type Front left Front right Surround left Surround right * The center speaker and subwoofer do not have the character on the speaker label. For details on the speaker type, see page 4. 18GB 3: Connecting the audio/video components How to hook up your components This section describes how to hook up your components to this receiver. Before you begin, refer to "Component to be connected" below for the pages which describe how to connect the audio/video components. Before connecting the cords, be sure to disconnect the AC power cord (mains lead). After hooking up all your components, proceed to "4: Connecting the antennas" (page 24). Connecting audio components The following illustration shows how to connect audio components such as Super Audio CD player or CD player. Super Audio CD player, CD player Audio signal Getting Started A Component to be connected To connect Audio components · Super Audio CD player/ CD player Components with HDMI jack Video components · TV · DVD player, DVD recorder · VCR See page 19 AM SAT IN DVD IN B TV DIGITAL L page 20 page 22 ANTENNA R OPT IN VIDEO 2 OPT IN COAX IN DVD AUDIO IN AUDIO IN SA-CD/CD TV A Audio cord (not supplied) 19GB Connecting components with HDMI jacks HDMI is the abbreviated name for HighDefinition Multimedia Interface. It is an interface which transmits video and audio signals in digital format. HDMI features · A digital audio signals transmitted by HDMI can be output from the speakers connected to the receiver. This signal supports Dolby Digital, DTS and Linear PCM. · This receiver supports xvYCC transmission. · This receiver supports the Control for HDMI function. For details, see "Control for HDMI" (page 54). Blu-ray disc player Audio/video signals TV, projector, etc.

Audio/video signals Satellite tuner, Set-top box Audio/video signals DVD player Audio/video signals A A A A AM SAT IN DVD IN BD IN OUT TV DIGITAL L L HDMI DC5V 700mA MAX R OPT IN R AUDIO IN AUDIO IN ANTENNA VIDEO 2 OPT IN COAX IN DVD AUDIO IN SA-CD/CD TV VIDEO 1 DMPOR A HDMI cable (not supplied) We recommend that you use a Sony HDMI cable. 20GB Notes on HDMI connections · An audio signal input to the HDMI IN jack is output from the SPEAKERS jacks and HDMI OUT jack. It is not output from any other audio jacks. · Video signals input to the HDMI IN jack can only be output from the HDMI OUT jack. · When you want to listen to the sound from the TV speaker, set "AUDIO FOR HDMI" to "TV+AMP" in the VIDEO menu (page 37). If you cannot play back multi channel software, set to "AMP". However, the sound will not output from the TV speaker. · The multi/stereo area audio signals of a Super Audio CD are not output. · Audio signals (sampling frequency, bit length, etc.) transmitted from an HDMI jack may be suppressed by the connected component.

Check the setup of the connected component if the image is poor or the sound does not come out of a component connected via the HDMI cable. · Sound may be interrupted when the sampling frequency, the number of channels or the audio format of the audio output signals from the playback component is switched. · When the connected component is not compatible with copyright protection technology (HDCP), the image and/or the sound from the HDMI OUT jack may be distorted or may not be output.



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In this case, check the specification of the connected component. · You can enjoy multi channel Linear PCM only with an HDMI connection. · Set the image resolution of the playback component to 720p, 1080i or 1080p when you output 96 kHz multi channel sound over an HDMI connection. · You may need to make certain settings on the image resolution of the player before you can enjoy multi channel Linear PCM. Refer to the operating instructions of the player. · Refer to the operating instructions of each component connected for details. · We do not recommend using an HDMI-DVI conversion cable. When you connect an HDMI-DVI conversion cable to a DVI-D component, the sound and/or the image may not be output. Getting Started 21GB Connecting video components The following illustration shows how to connect video components such as DVD player, DVD recorder, VCR, etc. TV Audio signals It is not necessary to connect all the cords. Connect audio and video cords according to the jacks of your components. A B AM SAT IN DVD IN BD IN OUT TV DIGITAL L L HDMI DC5V 700mA MAX R OPT IN R AUDIO IN AUDIO IN ANTENNA VIDEO 2 OPT IN COAX IN DVD AUDIO IN SA-CD/CD TV VIDEO 1 DMPOR T C B Audio signal DVD player, DVD recorder Audio signal VCR A Optical digital cord (not supplied) B Audio cord (not supplied) C Coaxial digital cord (not supplied) 22GB When you connect a DVD player or DVD recorder You can use the DVD input button on the remote to control your DVD player or DVD recorder. You may need to change the factory setting of this button depending on the remote supplied with this receiver. The factory setting for the remote is shown in the table below: Remote RM-AAU022 Factory setting DVD player (Change the factory setting if you connect a DVD recorder) DVD recorder (Change the factory setting if you connect a DVD player) Tips · To output the sound of the TV from the speakers connected to the receiver, be sure to connect the audio output jacks of the TV to the TV IN jacks of the receiver. turn off the TV's volume or activate the TV's muting function. · All the digital audio jacks are compatible with 32 kHz, 44.1 kHz, 48 kHz, and 96 kHz sampling frequencies.

Getting Started RM-AAU023 To change the factory setting of the DVD input button on the remote, see "Changing button assignments" (page 63). Notes · To input multi channel digital audio from the DVD player, set the digital audio output setting on the DVD player. Refer to the operating instructions supplied with the DVD player. · To output sound from the front speakers and the subwoofer only when you select DVD input, be sure to: connect your DVD player to the DVD COAX IN jack on the receiver. press 2CH. · When connecting optical digital cords, insert the plugs straight in until they click into place. · Do not bend or tie optical digital cords. · Be sure to connect the video output of the DVD player, DVD recorder and VCR to the TV, so that the image is displayed on the TV. Refer to the operating instructions of each connected component for details. · You cannot do recording on the DVD recorder or VCR via this receiver.

For details, refer to the operating instructions supplied with the DVD recorder or VCR. 23GB 4: Connecting the antennas Connect the supplied AM loop antenna and FM wire antenna. Before connecting the antennas, be sure to disconnect the AC power cord (mains lead). FM wire antenna (supplied) AM loop antenna (supplied) 5: Preparing the receiver and the remote Connecting the AC power cord (mains lead) Connect the AC power cord (mains lead) to a wall outlet. AC power cord (mains lead) AM SAT IN DVD IN TV DIGITAL L SUR L CENTER SUBWOOFER R OPT IN ANTENNA VIDEO 2 OPT IN COAX IN DVD AUDIO IN SA-CD/CD To the wall outlet * The shape of the connector varies depending on the area code of this receiver.

Notes · To prevent noise pickup, keep the AM loop antenna away from the receiver and other components. · Be sure to fully extend the FM wire antenna. · After connecting the FM wire antenna, keep it as horizontal as possible. 24GB Performing initial setup operations Before using the receiver for the first time, initialize the receiver by performing the following procedure. This procedure can also be used to return settings you have made to their factory defaults. Be sure to use the buttons on the receiver for this operation. Inserting batteries into the remote Insert two R6 (size-AA) batteries in the RM-AAU022 (Models of area code U, UC, CA only) or RM-AAU023 (Models of area code CEL, CEK, AU, TW, TH only) Remote Commander. Observe the correct polarity when installing batteries. Getting Started 1,2 ?/1 INPUT SELECTOR MASTER VOLUME ACTIVE STANDBY PRESET TUNING SOUND FIELD MUTING AUTO CAL MIC 1 2 Press ?/1 to turn off the receiver. Hold down ?/1 for 5 seconds. "CLEARING" appears on the display for a while, then "CLEARED" appears. All the settings you have changed or adjusted are reset to the initial settings. Notes · Do not leave the remote in an extremely hot or humid place. · Do not use a new battery with old ones. · Do not mix manganese batteries and other kinds of batteries.

· Do not expose the remote sensor to direct sunlight or lighting apparatuses. Doing so may cause a malfunction. · If you do not intend to use the remote for an extended period of time, remove the batteries to avoid possible damage from battery leakage and corrosion. · When you replace the batteries, the remote buttons may be reset to their factory settings. If this happens, reassign the buttons again (page 63). Tip Under normal conditions, the batteries should last for about 3 months. When the remote no longer operates the receiver, replace all the batteries with new ones. 25GB 6: Calibrating the appropriate settings automatically (AUTO CALIBRATION) This receiver is equipped with DCAC (Digital Cinema Auto Calibration) Technology which allows you to perform automatic calibration as follows: · Check the connection between each speaker and the receiver. · Adjust the speaker level. · Measure the distance of each speaker from your listening position.

· Measure the speaker polarity. · Measure the frequency characteristics. * * The measurement result is not utilized for signals with a sampling frequency of more than 96 kHz. Before you perform Auto Calibration Before you perform the Auto Calibration, set up and connect the speakers (page 14, 17). · The AUTO CAL MIC jack is used for the supplied optimizer microphone only.

Do not connect other microphones to this jack. Doing so may damage the receiver and the microphone. · During the calibration, the sound that comes out of the speakers is very loud.



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The volume of the sound cannot be adjusted. Pay attention to the presence of children or to the effect on your neighborhood.

· Perform the Auto Calibration in a quiet environment to avoid the effect of noise and to get a more accurate measurement. · If there are any obstacles in the path between the optimizer microphone and the speakers, the calibration cannot be performed correctly. Remove any obstacles from the measurement area to avoid measurement error. Note If the muting function has been activated before you perform Auto Calibration, the muting function will be set to off automatically. The DCAC is designed to obtain proper sound balance in your room. However, you can adjust the speaker levels and balance manually according to your preference. For details, see "7: Adjusting the speaker levels and balance (TEST TONE)" (page 30). 26GB Example: HT-SS2300 ?/1 INPUT SELECTOR MASTER VOLUME ACTIVE STANDBY PRESET TUNING SOUND FIELD MUTING AUTO CAL MIC Optimizer microphone Performing Auto Calibration Getting Started TV INPUT TV ?/1 SLEEP DMPORT AV ?/1 ?/1 ?/1 switch Input buttons SYSTEM STANDBY VIDEO1 VIDEO2 BD DVD SAT TV SA-CD/CD TUNER 2CH A.F.D.

MOVIE MUSIC THEATRE 1 4 7 >10 2 5 8 0/10 3 DVD/BD MENU 6 9 AUTO CAL D.TUNING D.SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING AUTO CAL - AMP MENU MUTING CLEAR DISPLAY TV VOL MASTER VOL O RETURN/EXIT MENU/HOME MASTER VOL +/- 1 2 Connect the supplied optimizer microphone to the AUTO CAL MIC jack on the front panel. Set up the optimizer microphone. Place the optimizer microphone at your listening position. You can also use a stool or tripod so that the optimizer microphone remains at the same height as your ears. Press AMP MENU, then press AUTO CAL. You can also select "A.CAL YES" in the A. CAL menu.

The following appears on the display. A.CAL [5] t A.CAL [4] t A.CAL [3] t A.

CAL [2] t A.CAL [1] The measurement process will take approximately 30 seconds to complete. The table below shows the display when measurement starts.

Measurement for Speaker existence Speaker gain, distance, frequency response Subwoofer gain and distance Display TONE T.S.

P. WOOFER Tip When you face the speaker towards the optimizer microphone, you will get a more accurate measurement. Note You cannot measure the speaker height of the surround speakers. Set this value using "SUR POS." parameters in the SYSTEM menu (page 37). continued 27GB Tips · When Auto Calibration starts: Stand some distance from the speakers and the listening position to avoid measurement failure. This is because test signals are output from the speakers during measurement. Avoid making noise to get a more accurate measurement. · The Auto Calibration function will be canceled when you do the following during the measurement process: Press ?/1 or MUTING. Press input buttons on the remote or INPUT SELECTOR on the receiver.

Change the volume level. Press AUTO CAL again. 2 Press V/v repeatedly to select the item. Then, press . Item RETRY SAVE Explanation Performs the Auto Calibration again. Saves the measurement results and exits the setting process. Displays warning concerning the measurement results. See "When you select "WARN CHK"" (page 29). Displays the phase of each speaker (in phase/out of phase). See "When you select "PHASE"" (page 29).

Displays the measurement result for speaker distance. Displays the measurement result for speaker level. Exits the setting process without saving the measurement results. WARN CHK PHASE Confirming/saving the measurement results DISTANCE LEVEL EXIT 1 Confirm the measurement result. When the measurement ends, a beep sounds and the measurement result appears on the display.

Measurement Display result When the measurement process completes properly When the measurement process fails SAVE Explanation Proceed to step 2. 3 Save the measurement result. Select "SAVE" in step 2. The measurement results are saved. When error codes appear ERROR XXXX See "When error codes appear" (page 28).

Try the remedies and perform the Auto Calibration again. Error code ERROR 32 Cause and remedies None of the speakers were detected. Make sure that the optimizer microphone is connected properly and perform the Auto Calibration again. If the optimizer microphone is connected properly but the error code appears, the optimizer microphone cable may be damaged or improperly connected. · None of the front speakers are connected or only one front speaker is connected. · The optimizer microphone is not connected. ERROR F 33 28GB Error code Cause and remedies Warning code Explanation WARN 41 The sound input from the optimizer microphone is out of the acceptable range. It is louder than the loudest sound that can be measured. Try to perform the Auto Calibration when the environment is quiet enough to allow proper measurement. The volume of the receiver is out of the acceptable range.

Try to perform the Auto Calibration when the environment is quiet enough to allow proper measurement. The distance and position of a subwoofer cannot be detected. This may be caused by noise. Try to perform the Auto Calibration in a quiet environment. There is no warning information. ERROR SR 33 Either the left or right surround speaker is not connected. ERROR SW 33 Subwoofer is not connected. Connect the subwoofer to the SUBWOOFER terminal. ERROR 33 Wrong speaker detection due to noise. Make sure the environment is quiet during Auto Calibration.

A sound similar to the beep sound from the speakers while performing Auto Calibration is detected. Perform the Auto Calibration again. Getting Started WARN 42 ERROR 35 WARN 43 To rectify the error 1 Record down the error code. 2 Press , "RETRY Y" appears on the display. 3 Rectify the error. For details, see "When error codes appear" above. 4 Press to perform Auto Calibration again. NO WARN When you select "PHASE" You can check the phase of each speaker (in phase/out of phase). When you select "WARN CHK" If a warning on the measurement result is present, detailed information is displayed. Press to return to step 2 of "Confirming/saving the measurement results".

Warning code Explanation WARN 40 The Auto Calibration has completed. However, the noise level is high. You may be able to perform the Auto Calibration properly if you try it again, even though the measurement cannot be performed in all environments. Try to perform the Auto Calibration in a quiet environment. Press V/v repeatedly to select a speaker, then press to return to step 2 in "Confirming/saving the measurement results". Display Explanation The speaker is in phase. The speaker is out of phase. The "+" and "" terminals of the speaker may be connected the other way around.



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xx* IN xx* OUT * xx represent a speaker channel FL Front left FR Front right C Center SL Surround left SR Surround right SW Subwoofer Tip Depending on the position of the subwoofer, the measurement results for polarity may vary. However, there will be no problems even if you continue to use the receiver with that value.

continued 29GB When you have finished Disconnect the optimizer microphone from the receiver. Note If you have changed the position of the speakers, it is recommended that you perform Auto Calibration again in order to enjoy the surround sound. 7: Adjusting the speaker levels and balance (TEST TONE) You can adjust the speaker levels and balance while listening to the test tone from your listening position. Tip The receiver employs a test tone with a frequency centered at 800 Hz. 2CH A.F.D. MOVIE MUSIC A. CAL menu parameters You can use the A. CAL menu to make settings for the Auto Calibration function to suit your preference.

Select "8-A. CAL" in the amplifier menus. For details on adjusting the parameters, see "Navigating through menus" (page 35) and "Overview of the menus" (page 36). THEATRE 1 4 7 >10 2 5 8 0/10 3 DVD/BD MENU 6 9 AUTO CAL D.TUNING D.

SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING TV VOL MASTER VOL x AUTO CAL (Auto Calibration no/ yes) · A.CAL NO The Auto Calibration function is not activated. · A.CAL YES The Auto Calibration function start. - CLEAR DISPLAY 1 MASTER VOL +/- 2-5 O x CAL LOAD (Calibration load)* · LOAD YES Select this when you want to load the saved Auto Calibration result.

· LOAD NO Select this when you do not want to load the saved Auto Calibration result. * You can select this parameter only when you have performed the Auto Calibration and saved the settings. RETURN/EXIT MENU/HOME TV CH TV CH + PRESET REPLAY ADVANCE PRESET + < . > 1 2 3 4 Press AMP MENU. "1-LEVEL" appears on the display. Press menu. or b to enter the Press V/v repeatedly to select "T. TONE". Press or b to enter the parameter. 30GB 5 Press V/v repeatedly to select "T.

TONE Y". The test tone is output from each speaker in sequence as follows: Front left t Center t Front right t Surround right t Surround left t Subwoofer Getting Started 6 Adjust the speaker levels and balance using the LEVEL menu so that the level of the test tone sounds the same from each speaker. For details, see "Adjusting the level (LEVEL menu)" (page 39). Tips · To adjust the level of all speakers at the same time, press MASTER VOL +/- You can also use MASTER VOLUME on the receiver. · The adjusted value are shown on the display during adjustment. To turn off the test tone Repeat steps 1 to 5 above. Then, select "T. TONE N" in step 5. You can also press any input buttons.

When a test tone is not output from the speakers · The speaker cords may not be connected securely. · The speaker cords may have the short-circuit problem. 31GB Playback Selected input [Display] DMPort [DMPort] VIDEO 1 or VIDEO 2 [VIDEO 1 or VIDEO 2] Components that can be played back DIGITAL MEDIA PORT adapter connected to the DMPort jack VCR, etc., connected to the VIDEO 1 or VIDEO 2 jack Blu-ray disc player, etc., connected to the BD jack DVD player, DVD recorder, etc.

, connected to the DVD jack Satellite tuner, set-top box, etc., connected to the SAT jack TV, etc., connected to the TV jack Super Audio CD/CD player, etc., connected to the SA-CD/CD jack Selecting a component TV INPUT TV ?/1 SLEEP DMPort AV ?/1 ?/1 SYSTEM STANDBY VIDEO1 VIDEO2 BD DVD SAT TV SA-CD/CD TUNER 1 BD [BD] DVD [DVD] SAT [SAT] TV [TV] 2CH A.F.

D. MOVIE MUSIC THEATRE 1 4 7 >10 2 5 8 0/10 3 DVD/BD MENU 6 9 AUTO CAL D.TUNING D.SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING TV VOL MASTER VOL - CLEAR DISPLAY MUTING SA-CD/CD [SA-CD/CD] O RETURN/EXIT MENU/HOME TV CH TV CH + PRESET REPLAY ADVANCE PRESET + < . > 3 2 3 TUNER Built-in radio tuner [FM or AM band] 1 Turn on the component and start playback. Press MASTER VOL +/- to adjust the volume. You can also use MASTER VOLUME on the receiver. Press the input button to select a component. You can also use INPUT SELECTOR on the receiver. The selected input appears on the display.

To activate the muting function Press MUTING. The muting function will be canceled when you do the following. · Press MUTING again. · Increase the volume. · Turn off the receiver. To avoid damaging your speakers Before you turn off the receiver, be sure to turn down the volume level. 32GB Listening/Watching a component Listening to a Super Audio CD/CD Playback TV INPUT TV ?/1 SLEEP DMPort AV ?/1 ?/1 SYSTEM STANDBY VIDEO1 VIDEO2 BD DVD SAT TV SA-CD/CD TUNER 2CH A.F.D. MOVIE MUSIC THEATRE 2 3 5 3 ?/1 INPUT SELECTOR MASTER VOLUME ACTIVE STANDBY PRESET TUNING SOUND FIELD 1 4 7 >10 2 5 8 0/10 3 DVD/BD MENU MUTING AUTO CAL MIC 6 9 AUTO CAL D.

TUNING D.SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING TV VOL MASTER VOL - CLEAR DISPLAY O RETURN/EXIT MENU/HOME TV CH TV CH + PRESET REPLAY ADVANCE PRESET + < . > TUNING m TV X H TUNING + M FM MODE x 5 1 2 3 4 5 6 Notes · The operation is described for a Sony Super Audio CD player. · Refer to the operating instructions supplied with the Super Audio CD player or CD player. Turn on the Super Audio CD player/CD player, then place the disc on the tray.

Turn on the receiver. Press SA-CD/CD. You can also use INPUT SELECTOR on the receiver to select "SA-CD/CD". Tips · You can select the sound field to suit the music. Refer to page 46 for details.

Recommended sound fields: Classical: HALL Jazz: JAZZ Live concert: CONCERT · You can listen to the sound that was recorded in the 2 channel format from all speakers (multi channel). Refer to page 45 for details. Play back the disc. Adjust to a suitable volume. After you have finished listening to the Super Audio CD/CD, eject the disc and turn off the receiver and Super Audio CD player/ CD player. 33GB Watching a DVD/Blu-ray disc TV INPUT TV ?/1 SLEEP DMPort AV ?/1 ?/1 SYSTEM STANDBY VIDEO1 VIDEO2 BD DVD SAT TV SA-CD/CD TUNER 2CH A.F.D. MOVIE MUSIC 2 3 3 ?/1 INPUT SELECTOR MASTER VOLUME THEATRE 1 4 7 >10 2 5 8 0/10 3 DVD/BD MENU ACTIVE STANDBY PRESET TUNING SOUND FIELD MUTING AUTO CAL MIC 6 9 AUTO CAL D.TUNING D.

SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING TV VOL MASTER VOL - CLEAR DISPLAY O RETURN/EXIT MENU/HOME TV CH TV CH + PRESET REPLAY ADVANCE PRESET + < . > TUNING m TV X H TUNING + M FM MODE x 6 1 2 3 6 Turn on the TV and DVD player/Blu-ray disc player.



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MAX" setting. @@@@Select "2-TONE" in the amplifier menus. @@Select "3-SUR" in the amplifier menus.

@@@For details, see "Enjoying Surround Sound" (page 45). @@@- EFCT. MIN The surround effect is minimum. · EFCT. STD The surround effect is standard. · EFCT. @@Select "4-TUNER" in the amplifier menus. @@Select "5-AUDIO" in the amplifier menus. @@@PRI. @@ · DEC.

@@@In this case, set to "DEC. AUTO". @@When signals in other format are received, set to "DEC. AUTO". · DEC.

@@Note When set to "DEC. @@@@This feature only functions for Dolby Digital sources. · DUAL M (Main) Sound of the main language will be output. · DUAL S (Sub) Sound of the sub language will be output. @@@@Select "6-VIDEO" in the amplifier menus.

@@@Multi-channel sound can be played back as it is. @@SYNC. @@You can adjust from 0 (0 ms) to 20 (200 ms) in 1 (10 ms) steps.

@@@@@When the TV has stereo speakers, the sound output from the receiver is also stereo as that of the TV, even if you play multi-channel source. When you connect the receiver to a video component (projector, etc.), sound may not be output from the receiver. In this case, select "AMP". x IN MODE (Switching the audio input mode) Lets you set the audio input mode of inputs. For details, see "Switching between digital and analog audio (IN MODE)" (page 60). 42GB x CONTROL FOR HDMI (Control for HDMI) Lets you turn the Control for HDMI function on or off.

For details, "Control for HDMI" (page 54). Settings for the system (SYSTEM menu) You can use the SYSTEM menu to set the distance of the speakers connected to this system. Select "7-SYSTEM" in the amplifier menus. For details on adjusting the parameters, see "Navigating through menus" (page 35) and "Overview of the menus" (page 36). Amplifier Operations SYSTEM menu parameters x FL DIST. (Front left speaker distance) x FR DIST. (Front right speaker distance) Lets you set the distance from your listening position to the front speaker (A). If both front speakers are not placed an equal distance from your listening position, set the distance to the closest speaker. A 30° 30° A 100°-120° 100°-120° x CNT DIST. (Center speaker distance) Lets you set the distance from your listening position to the center speaker.

x SL DIST. (Surround left speaker distance) x SR DIST. (Surround right speaker distance) Lets you set the distance from your listening position to the surround speakers. continued 43GB x SW DIST. (Subwoofer distance) Lets you set the distance from your listening position to the subwoofer.

Tip If you set "CAL LOAD" in A. CAL menu to "LOAD YES", you can adjust the speakers distance in 0.01 meter (1 inch) increment. x SUR POS. (Surround speaker position) Lets you specify the location of your surround speakers for proper implementation of the surround effects in the CINEMA STUDIO EX modes (page 47).

· BEHD/HI Select if the location of your surround speakers corresponds to sections B and D. · BEHD/LO Select if the location of your surround speakers corresponds to sections B and C. · SIDE/HI Select if the location of your surround speakers corresponds to sections A and D. · SIDE/LO Select if the location of your surround speakers corresponds to sections A and C. Tip Surround speaker position is designed specifically for implementation of the CINEMA STUDIO EX modes. For other sound fields, speaker position is not so critical. Those sound fields were designed under the premise that the surround speakers would be located behind the listening position, but presentation remains fairly consistent even with the surround speakers positioned at a rather wide angle.

However, if the speakers are pointing toward the listener from the immediate left and right of the listening position, the surround effects become unclear unless set to "SIDE/LO" or "SIDE/HI". Nevertheless, each listening environment has many variables, such as wall reflections, and you may obtain better results using "BEHD/HI" if your speakers are located high above the listening position, even if they are located to the immediate left and right. Therefore, although it may result in a setting contrary to the above explanation, we recommend that you playback multi channel surround encoded software and select the setting that provides a good sense of spaciousness and that best succeeds in forming a cohesive space between the surround sound from the surround speakers and the sound of the front speakers.

If you are not sure which sounds best, select "BEHD/LO" or "BEHD/HI" and then use the speaker distance parameter and speaker level adjustments to obtain proper balance. x DIMMER (Brightness of the display) Lets you adjust the brightness in 3 steps. 44GB Enjoying Surround Sound Press A.F.D. @@@@mode A.F.D. mode [Display] A.F.

D. AUTO [A.F.D. @@@@Performs Dolby Pro Logic decoding.

The source recorded in 2 channel format is decoded into 4.1 channels. Performs Dolby Pro Logic II Movie mode decoding. This setting is ideal for movies encoded in Dolby Surround. @@Performs Dolby Pro Logic II Music mode decoding.

This setting is ideal for normal stereo sources such as CDs. @@@@This is a standard mode, great for watching almost any type of movie.

@@@@@This mode is ideal for watching musicals or films where orchestra music is featured in the soundtrack. Reproduces the acoustics of a classical concert hall. Reproduces the acoustics of a jazz club. Reproduces the acoustics of a 300-seat live house. Reproduces the feeling of a large open-air stadium. Reproduces the feeling of sports broadcasting. CINEMA STUDIO EX B DCS [C.ST.

EX B] CINEMA STUDIO EX C DCS [C.ST.EX C] Enjoying Surround Sound Music HALL [HALL] JAZZ CLUB [JAZZ] LIVE CONCERT [CONCERT] STADIUM [STADIUM] SPORTS [SPORTS] PORTABLE AUDIO Reproduces a clear enhanced sound image from your portable ENHANCER [PORTABLE] audio device. This mode is ideal for MP3 and other compressed music. Notes · The effects provided by the virtual speakers may cause increased noise in the playback signal. · When listening with sound fields that employ the virtual speakers, you will not be able to hear any sound coming directly from the surround speakers. @@ the multi channel Linear PCM signals are received via an HDMI IN jack. Tips · You can identify the encoding format of DVD software, etc., by looking at the logo on the package. · Sound fields with D S mark use DCS C technology.

See "Glossary" (page 64). To turn off the surround effect for movie/music Press 2CH to select "2CH ST." or press A.F.D.

repeatedly to select "A.F.D. AUTO". 47GB Using only the front speakers and subwoofer (2CH STEREO) In this mode, the receiver outputs the sound from the front left/right speakers and subwoofer only.



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When multi channel surround formats are input, the signals are downmixed to 2 channel with bass frequencies being output from the subwoofer. When standard 2 channel stereo sources are input, the receiver's bass redirection circuitry will be activated. The front channel bass frequencies will be output from the subwoofer. VIDEO1 VIDEO2 BD DVD Resetting sound fields to the initial settings Be sure to use the buttons on the receiver for this operation. 1,2 ?/1 ACTIVE STANDBY PRESET TUNING SOUND FIELD 2 INPUT SELECTOR MASTER VOLUME MUTING AUTO CAL MIC 1 2 Press ?/1 to turn off the receiver. While holding down SOUND FIELD +, press ?/1. "S.F. CLR." appears on the display and all sound fields are reset to their initial setting.

SAT TV SA-CD/CD TUNER 2CH A.F.D. MOVIE MUSIC 2CH THEATRE 1 2 3 Press 2CH. You can also use SOUND FIELD + or SOUND FIELD on the receiver. 48GB Tuner Operations 1 Press TUNER repeatedly to select the FM or AM band. You can also use INPUT SELECTOR on the receiver. Listening to FM/AM radio You can listen to FM and AM broadcasts through the built-in tuner. Before operation, make sure you have connected the FM and AM antennas to the receiver (page 24). Tip The tuning scale for direct tuning differs depending on the area code as shown in the following table.

For details on area codes, see page 4. Area code U, UC, CA AU, TW, TH CEL, CEK FM 100 kHz 50 kHz 50 kHz AM 10 kHz* 10 kHz* 9 kHz 2 Press TUNING + or TUNING . Press TUNING + to scan from low to high; press TUNING to scan from high to low. The receiver stops scanning whenever a station is received. In case of poor FM stereo reception If the FM stereo reception is poor and "ST" flashes on the display, select monaural audio so that the sound will be less distorted.

To select monaural audio, you can press FM MODE repeatedly until the "MONO" indicator lights up on the display. set "FM MODE" in TUNER menu to "FM MONO" (page 41). To return to stereo mode, you can press FM MODE repeatedly until the "MONO" indicator on the display do not light up. set "FM MODE" in TUNER menu to "FM AUTO" (page 41). Tuner Operations *The AM tuning scale can be changed (page 72).

Automatic tuning SYSTEM STANDBY VIDEO1 VIDEO2 BD DVD SAT TV SA-CD/CD TUNER 1 2CH A.F.D. MOVIE MUSIC THEATRE 1 4 7 >10 2 5 8 0/10 3 DVD/BD MENU 6 9 AUTO CAL D.TUNING D.SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING TV VOL MASTER VOL - CLEAR DISPLAY O RETURN/EXIT MENU/HOME TV CH TV CH + PRESET REPLAY ADVANCE PRESET + < . > TUNING m TV X H TUNING + M FM MODE x 2 FM MODE 49GB Direct tuning You can enter the frequency of a station directly by using the numeric buttons. SYSTEM STANDBY Presetting radio stations BD DVD VIDEO1 VIDEO2 You can preset up to 30 FM stations and 30 AM stations. Then you can easily tune in the stations you often listen to. SAT TV SA-CD/CD TUNER 2CH A.

F.D. MOVIE MUSIC 1 Presetting radio stations VIDEO1 VIDEO2 BD DVD THEATRE 1 2 5 8 0/10 3 DVD/BD MENU 3 4 7 >10 6 9 AUTO CAL D.TUNING D.SKIP MEMORY AMP MENU ENTER SAT TV SA-CD/CD TUNER 2 4 4 1 2CH A.F.D. MOVIE MUSIC - CLEAR THEATRE 1 4 7 >10 2 5 8 0/10 3 DVD/BD MENU 6 9 AUTO CAL D.TUNING D.SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING TV VOL MASTER VOL 1 Press TUNER repeatedly to select the FM or AM band.

You can also use INPUT SELECTOR on the receiver. - CLEAR DISPLAY 3,5 2 3 Press D.TUNING. Press the numeric buttons to enter the frequency.

Example 1: FM 102.

50 MHz Select 1 b 0 b 2 b 5 b 0 Example 2: AM 1,350 kHz Select 1 b 3 b 5 b 0 If you have tuned in an AM station, adjust the direction of the AM loop antenna for optimum reception. O RETURN/EXIT MENU/HOME TV CH TV CH + PRESET REPLAY ADVANCE PRESET + < . > TUNING m H TUNING + M PRESET +/ 1 Press TUNER repeatedly to select the FM or AM band. You can also use INPUT SELECTOR on the receiver. 4 Press ENTER.

2 If you cannot tune in a station Make sure you have entered the right frequency. If not, repeat steps 2 to 4. If you still cannot tune in a station, the frequency is not used in your area. Tune in the station that you want to preset using automatic tuning (page 49) or direct tuning (page 50). Switch the FM reception mode, if necessary (page 49). 3 Press MEMORY. "MEMORY" lights up for a few seconds. Perform steps 4 and 5 before "MEMORY" goes out. 50GB 4 Press the numeric buttons to select a preset number. You can also press the PRESET + or PRESET to select a preset number.

If "MEMORY" goes out before you select the preset number, start again from step 3. Tuning to preset stations SYSTEM STANDBY VIDEO1 VIDEO2 BD DVD SAT TV SA-CD/CD TUNER 1 2CH A.F.D. MOVIE MUSIC 5 Press ENTER. The station is stored as the selected preset number. If "MEMORY" goes out before you press ENTER, start again from step 3. Numeric buttons THEATRE 1 4 7 >10 2 5 8 0/10 3 DVD/BD MENU 6 9 AUTO CAL D.TUNING D.SKIP MEMORY AMP MENU ENTER TOOLS/ OPTIONS MUTING TV VOL MASTER VOL - CLEAR DISPLAY 6 ENTER Repeat steps 1 to 5 to preset another station.

O Tuner Operations RETURN/EXIT MENU/HOME TV CH TV CH + PRESET REPLAY ADVANCE PRESET + < . > TUNING m H TUNING + M 2 1 2 Press TUNER repeatedly to select the FM or AM band. Press PRESET + or PRESET repeatedly to select the preset station you want. Each time you press the button, you can select a preset station as follows: 01 02 03 30 04 29 05 28 ..

. 27 You can also press the numeric buttons to select the preset station you want. Then, press ENTER to enter the selection. Using the controls on the receiver 1 Press INPUT SELECTOR + or INPUT SELECTOR repeatedly to select the FM or AM band. 2 Press PRESET TUNING + or PRESET TUNING repeatedly to select the preset station you want.

51GB Using the Radio Data System (RDS) (Models of area code CEL, CEK only) This receiver also allows you to use RDS (Radio Data System), which enables radio stations to send additional information along with the regular program signal. You can display RDS information. Notes · RDS is operable only for FM stations. · Not all FM stations provide RDS service, nor do they provide the same type of services. If you are not familiar with the RDS services in your area, check with your local radio stations for details. Displaying RDS information While receiving an RDS station, press DISPLAY repeatedly. Each time you press the button, RDS information on the display changes cyclically as follows: Program Service name t Frequency t Program Type indicationa) t Radio Text indicationb) t Current Time indication (in 24-hour system mode) t Sound field currently applied t Volume level a) b) Text Type of program being broadcast (page 52).



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