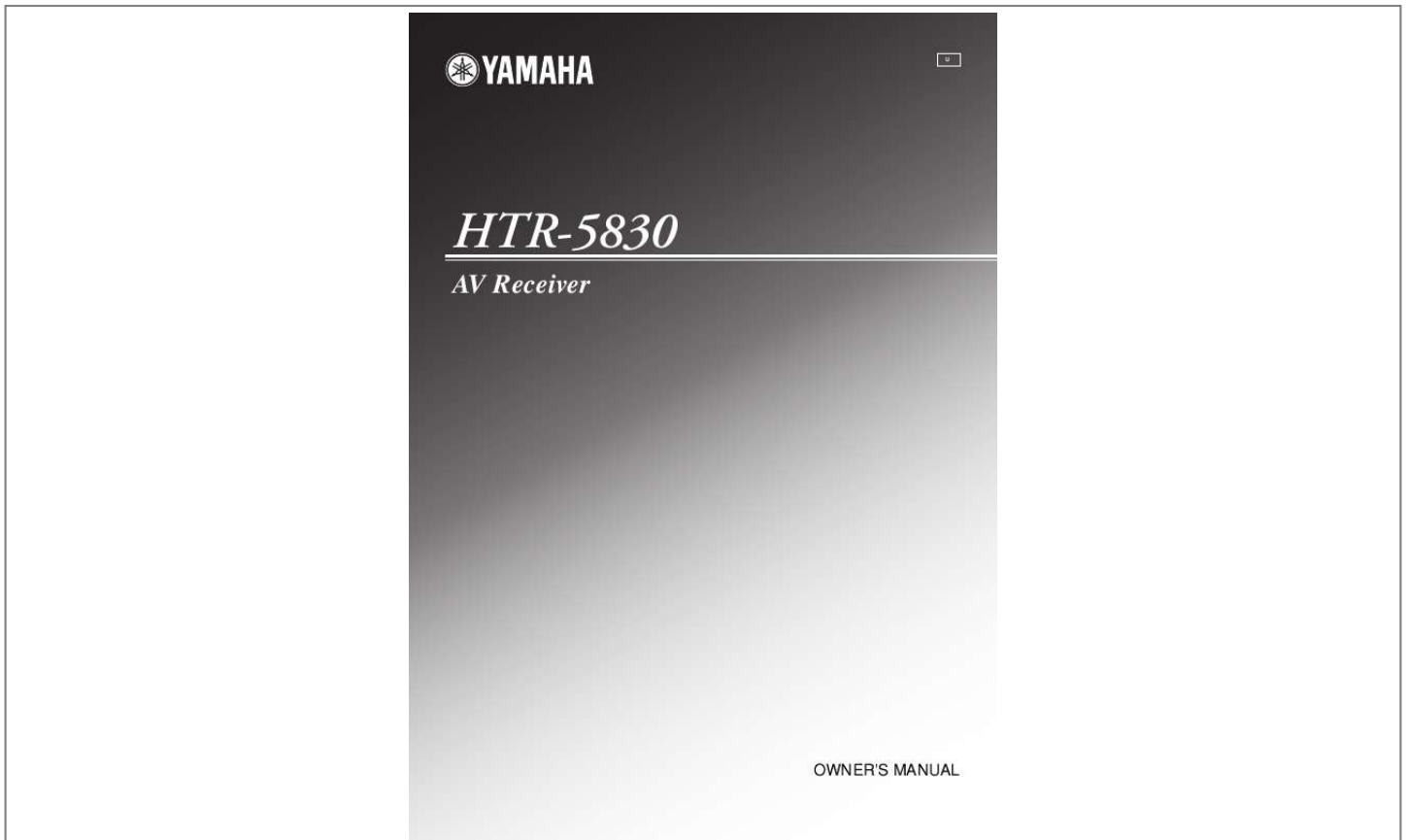# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for YAMAHA HTR-5830. You'll find the answers to all your questions on the YAMAHA HTR-5830 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual YAMAHA HTR-5830
User guide YAMAHA HTR-5830
Operating instructions YAMAHA HTR-5830
Instructions for use YAMAHA HTR-5830
Instruction manual YAMAHA HTR-5830

⊛YAMAHA

HTR-5830

AV Receiver

OWNER'S MANUAL

Manual abstract:

@@@@@@Heed Warnings All warnings on the product and in the operating instructions should be adhered to. Follow Instructions All operating and use instructions should be followed. Cleaning Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Attachments Do not use attachments not recommended by the product manufacturer as they may cause hazards.
@@@@@@@@Any mounting of the product should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn. 14 15 16 17 18 19 Ventilation Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered.
The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. Power Sources This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.
Grounding or Polarization This product may be equipped with a polarized alternating current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet.
Do not defeat the safety purpose of the polarized plug. Power-Cord Protection Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. Lightning For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. Power Lines An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal. Overloading Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock. Object and Liquid Entry Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product. Servicing Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards.

Refer all servicing to qualified service personnel. Damage Requiring Service Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions: a) When the power-supply cord or plug is damaged, b) If liquid has been spilled, or objects have fallen into the product, c) If the product has been exposed to rain or water, i 20 21 22 23 If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation, e) If the product has been dropped or damaged in any way, and f) When the product exhibits a distinct change in performance - this indicates a need for service. Replacement Parts When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards. Safety Check Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition. Wall or Ceiling Mounting The unit should be mounted to a wall or ceiling only as recommended by the manufacturer. Heat The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat. d) 24 Outdoor Antenna Grounding If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
EXAMPLE OF ANTENNA GROUNDING MAST ANTENNA LEAD IN WIRE GROUND CLAMP ANTENNA DISCHARGE UNIT (NEC SECTION 81020) ELECTRIC SERVICE EQUIPMENT GROUNDING CONDUCTORS (NEC SECTION 81021) GROUND CLAMPS Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical. POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250. PART H) NEC NATIONAL ELECTRICAL CODE FCC INFORMATION (for US customers) 1. IMPORTANT NOTICE : DO NOT MODIFY THIS UNIT! This product, when installed as indicated in the instructions contained in this manual, meets FCC requirements. Modifications not expressly approved by Yamaha may void your authority, granted by the FCC, to use the product.
IMPORTANT : When connecting this product to accessories and/or another product use only high quality shielded cables. Cable/s supplied with this product MUST be used.

Follow all installation instructions. Failure to follow instructions could void your FCC authorization to use this product in the USA. NOTE : This product has been tested and found to comply with the requirements listed in FCC Regulations, Part 15 for Class "B" digital devices.

Compliance with these requirements provides a reasonable level of assurance that your use of this product in a residential environment will not result in harmful interference with other electronic devices. This equipment generates/uses radio frequencies and, if not installed and used according to the instructions found in the users manual, may cause interference harmful to the operation of other electronic devices. Compliance with FCC regulations does not guarantee that interference will not occur in all installations. If this product is found to be the source of interference, which can be determined by turning the unit "OFF" and "ON", please try to eliminate the problem by using one of the following measures: Relocate either this product or the device that is being affected by the interference. Utilize power outlets that are on different branch (circuit breaker or fuse) circuits or install AC line filter/s. In the case of radio or TV interference, relocate/reorient the antenna. If the antenna lead-in is 300 ohm ribbon lead, change the lead-in to coaxial type cable. If these corrective measures do not produce satisfactory results, please contact the local retailer authorized to distribute this type of product. If you can not locate the appropriate retailer, please contact Yamaha Electronics Corp., U.

S.A. 6660 Orangethorpe Ave, Buena Park, CA 90620. The above statements apply ONLY to those products distributed by Yamaha Corporation of America or its subsidiaries. 2. 3. ii CAUTION: READ THIS BEFORE OPERATING YOUR UNIT. 1 To assure the finest performance, please read this manual carefully. Keep it in a safe place for future reference. 2 Install this sound system in a well ventilated, cool, dry, clean place -- away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.

Allow ventilation space of at least 30 cm on the top, 20 cm on the left and right, and 20 cm on the back of this unit. 3 Locate this unit away from other electrical appliances, motors, or transformers to avoid humming sounds. 4 Do not expose this unit to sudden temperature changes from cold to hot, and do not locate this unit in a environment with high humidity (i.e. a room with a humidifier) to prevent condensation inside this unit, which may cause an electrical shock, fire, damage to this unit, and/or personal injury.

5 Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place: Other components, as they may cause damage and/or discoloration on the surface of this unit. Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.

Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit. 6 Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury. 7 Do not plug in this unit to a wall outlet until all connections are complete. 8 Do not operate this unit upside-down. It may overheat, possibly causing damage. 9 Do not use force on switches, knobs and/or cords. 10 When disconnecting the power cord from the wall outlet, grasp the plug; do not pull the cord. 11 Do not clean this unit with chemical solvents; this might damage the finish.

Use a clean, dry cloth. 12 Only voltage specified on this unit must be used. Using this unit with a higher voltage than specified is dangerous and may cause fire, damage to this unit, and/or personal injury. YAMAHA will not be held responsible for any damage resulting from use of this unit with a voltage other than specified. 13 To prevent damage by lightning, disconnect the power cord from the wall outlet during an electrical storm. 14 Do not attempt to modify or fix this unit. Contact qualified YAMAHA service personnel when any servicternal decoder ....

MUTE (Europe, U.K., Australia and Korea models) HALL 1 MUSIC 5 /DTS 9 LEVEL TITLE JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER SET MENU TV THTR MOVIE1 6 NIGHT 0 7 6.1/5.1 +10 MENU A/B/C/D/E TEST SELECT + DISPLAY RETURN PRESET/CH Installing batteries in the remote control Insert the batteries in the correct direction by aligning the + and marks on the batteries with the polarity markings (+ and) inside the battery compartment. I Notes on batteries 2 1 3 · Change all of the batteries if you notice a decrease in the operating range of the remote control. · Do not use old batteries together with new ones. · Do not use different types of batteries (such as alkaline and manganese batteries) together. Read the packaging carefully as these different types of batteries may have the same shape and color. · If the batteries have leaked, dispose of them immediately. Avoid touching the leaked material or letting it come into contact with clothing, etc. Clean the battery compartment thoroughly before installing new batteries. · Do not throw away batteries with general house waste; dispose of them correctly in accordance with your local regulations. If the remote control is without batteries for more than 2 minutes, or if exhausted batteries remain in the remote control, the contents of the memory may be cleared. When the memory is cleared, insert new batteries, set up the remote control code and program any acquired functions that may have been cleared.

1 2 3 Press the part marked with a and slide off the battery compartment cover. Insert the two batteries supplied (AA, R06, UM-3) according to the polarity markings on the inside of the battery compartment. Slide the cover back on so that it snaps into place. 3 CONTROLS AND FUNCTIONS Front panel 1 23 4 5 6 7 8 9 0 VOLUME STANDBY /ON PRESET/TUNING FM/AM A/B/C/D/E PRESET/TUNING MEMORY TUNING MODE EDIT NEXT SET MENU MAN'L/AUTO FM AUTO/MAN'L MONO PHONES SPEAKERS A/B/OFF STEREO PROGRAM INPUT MODE INPUT 6CH INPUT EFFECT TONE CONTROL BASS/TREBLE SILENT CINEMA q w e rt y u i o 1 STANDBY/ON Turns on this unit or sets it to the standby mode.

When you turn on this unit, you will hear a click and there will be a 4 to 5-second delay before this unit can reproduce sound.

5 A/B/C/D/E Selects preset station groups A to E when the unit is in tuner mode. (NEXT) Selects the set menu mode when the unit is not in tuner mode. 6 Front panel display Shows information about the operational status of the unit. 7 PRESET/TUNING l / h Select preset station numbers 1 to 8 when a colon (:) is displayed in the front panel display. Select the tuning frequency when a colon (:) is not displayed in tuner mode. (SET MENU /+) Adjust settings on the set menu when the unit is not in tuner mode. 8 MEMORY (MAN'L/AUTO FM) Stores a station in the memory. 9 TUNING MODE (AUTO/MAN'L MONO) Switches the tuning mode between automatic and manual. Note In standby mode, this unit consumes a small amount of power in order to receive infrared-signals from the remote control. 2 PRESET/TUNING Switches the function of PRESET/TUNING l / h between selecting a preset station number and tuning (the colon (:) turns on or off).

(EDIT) This button is also used to exchange the assignment of two preset stations with each other. 3 Remote control sensor Receives signals from the remote control. 4 FM/AM Switches the reception band between FM and AM. 4 CONTROLS AND FUNCTIONS 0 VOLUME Controls the output level of all audio channels. This does not affect the OUT (REC) level. q PHONES (SILENT CINEMA) Allows you to enjoy DSP effects when listening with headphones. w SPEAKERS A/B/OFF Selects the set of front speakers connected to the A or B terminals. To turn off the speakers, press the button repeatedly and select OFF. e STEREO (EFFECT) Switches between normal stereo and DSP effect reproduction. When you select STEREO, the unit mixes down all Dolby Digital and DTS signals (except the LFE channel) as well as those 2-channel signals without effect sounds to the front left and right speakers.

r TONE CONTROL Switches between Bass (low-frequency response) control mode and Treble (high-frequency response) control mode. t PROGRAM l / h Use to select sound field programs. y BASS/TREBLE /+ Increase or decrease low/high-frequency response when the unit is in Bass/Treble control mode. The sound changes 2dB each time you press one of these buttons. Control range: 10 to +10dB.

u INPUT MODE Sets the priority for the types of input signals (AUTO, DTS, ANALOG) received when one component is connected to two types of input jacks. You cannot set priority for an audio sources if you have selected 6CH INPUT as the input source. i INPUT l / h Selects the input source you want to listen to or watch. o 6CH INPUT Selects the audio source connected to the 6CH INPUT jacks. This selection takes priority over sources selected with INPUT (or the input selector buttons on the remote control).

INTRODUCTION 5 CONTROLS AND FUNCTIONS Remote control This section describes the controls and functions of the remote control when it is set in AMP mode. Please make sure to select AMP mode before beginning operation. See "REMOTE CONTROL FEATURES" on page 47 to operate other components with this remote control. 1 Infrared emitter Outputs infrared control signals. Aim this emitter at the component you want to operate. 2 Input selector buttons Select the input source and change the control area. 3 Sound field program/Numeric buttons Use to select sound field programs or input numbers. SYSTEM 1 7 POWER TV POWER AV STANDBY POWER 8 SLEEP 4 LEVEL Selects the effect speaker channel to adjust. 5 Cursor buttons u / d / j / i / SELECT Use to select and adjust sound field program parameters or SET MENU items. 6 TEST Outputs the test tone to adjust the speaker levels.

7 STANDBY Sets this unit in standby mode. 8 SYSTEM POWER Turns on the power of the unit. 9 SLEEP Sets the sleep timer. 0 6CH INPUT Selects the audio source connected to the 6CH INPUT jacks. CD MD/CD-R TUNER 2 9 DVD D-TV/CBL VCR V-AUX REC AUDIO DISC SKIP 6CH INPUT 0 CODE SET q AMP w e r TV + VOL + CH + VOLUME MUTE INPUT MUTE HALL 1 JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER SET MENU 3 MUSIC 5 /DTS 9 LEVEL TV THTR MOVIE1 6 NIGHT 0 7 6.1/5.1 +10 t y i u 4 5 6 TITLE MENU A/B/C/D/E q CODE SET Use to set up remote control codes (see page 48). w AMP Switches control from a previously selected component by using the input selector buttons to this unit. e VOLUME +/ Increases or decreases the volume level. TEST SELECT + DISPLAY RETURN PRESET/CH 6 CONTROLS AND FUNCTIONS r MUTE Mutes the sound. Press again to restore the audio output to the previous volume level. t 6.1/5.1 Switches on or off the Dolby Digital + Matrix 6.1 or DTS + Matrix 6. 1 decoder. I Using the remote control The remote control transmits a directional infrared beam. Be sure to aim the remote control directly at the remote control sensor on the main unit during operation. INTRODUCTION VOLUME y STEREO Switches between normal stereo and DSP effect reproduction. When you select STEREO the unit mixes down all Dolby Digital and DTS signals (except the LFE channel) as well as those 2-channel signals without effect sounds, to the front left and right speakers.

u NIGHT Sets the unit in night listening mode. i SET MENU Selects the set menu mode. STANDBY /ON PRESET/TUNING FM/AM A/B/C/D/E PRESET/TUNING MEMORY TUNING MODE EDIT NEXT SET MENU MAN'L/AUTO FM AUTO/MAN'L MONO PHONES SPEAKERS A/B/OFF STEREO PROGRAM INPUT MODE INPUT 6CH INPUT EFFECT TONE CONTROL BASS/TREBLE SILENT CINEMA 30° SYSYTEM 30° POWER TV POWER AV STANDBY POWER Approximately 6 m (20 feet) CD MD/CD-R TUNER SLEEP DVD D-TV/CBL VCR V-AUX REC AUDIO DISC SKIP 6CH INPUT CODE SET AMP TV + VOL + CH + VOLUME MUTE INPUT MUTE HALL 1 TV SPORTS 5 JAZZ 2 MONO MOVIE 6 ROCK 3 ENTERTAINMENT 4 1 - MOVIE THTR - 2 7 8 /DTS - SELECT MATRIX 6.1 STEREO 9 LEVEL TITLE 0 +10 ENTER SET MENU MENU A/B/C/D/E TEST SELECT + DISPLAY RETURN PRESET/CH I Handling the remote control · Do not spill water or other liquids on the remote control. · Do not drop the remote control. · Do not leave or store the remote control in the following types of conditions: high humidity such as near a bath high temperature such as near a heater or stove extremely low temperature dusty places 7 CONTROLS AND FUNCTIONS Front panel display 1 2 3 VCR MATRIX DIGITAL PL PL PCM 4 V-AUX SLEEP 5 DTV/CBL DVD 6 MD/CD-R TUNER CD 7 8 SILENT CINEMA VIRTUAL SP AB NIGHT HiFi DSP AUTO TUNED STEREO MEMORY MUTE VOLUME dB ~~~~~~~~~~~~~dB ft LCR LFE SL SB SR 9 0q w e r t y ui o p a 1 Decoder indicators When any of this unit's decoders function, the respective indicator lights up.

2 SILENT CINEMA indicator Lights up when headphones are connected and a sound field program is selected (see page 27). 3 Headphones indicator Lights up when headphones are connected to the headphone jack. 4 Input source indicator Highlights the current input source with a cursor. 5 Sound field indicator Light to indicate the active DSP sound fields.

Presence DSP sound field Left surround DSP sound field Listening position Right surround DSP sound field w SP A B indicator Lights up to indicate which set of front speakers is selected. e NIGHT indicator Lights up when the unit is set to night listening mode. r SLEEP indicator Lights up while the sleep timer is on. t HiFi DSP indicator Lights up when you select a HiFi DSP sound field program. y CINEMA DSP indicator Lights up when you select a CINEMA DSP sound field program. u TUNED indicator Lights up when this unit is tuned to a radio station. i STEREO indicator Lights up when the unit is receiving a strong signal from a FM stereo broadcast while the "AUTO" indicator is lit. o MEMORY indicator Flashes to show a station can be stored. p LFE indicator Lights up when the input signal contains an LFE signal. a Input channel indicator The indicators for the appropriate sound channels light up when a digital signal from a source is played back.

Surround back DSP sound field 6 AUTO indicator Shows that this unit is in the automatic tuning mode. 7 MUTE indicator Flashes while the MUTE function is on. 8 VOLUME level indicator Indicates the volume level. 9 PCM indicator Lights up when this unit is reproducing PCM (pulse code modulation) digital audio signals. 0 VIRTUAL indicator Lights up when using Virtual CINEMA DSP.

q Multi-information display Shows the current sound field program name and other information when adjusting or changing settings. 8 CONNECTIONS Before connecting components CAUTION Do not connect this unit or other components to the mains power until all connections between the components have been completed. · Be sure to connect the left channel (L), right channel (R), "+" (red) and "" (black) properly. Some components require different connection methods and have different jack names. Refer to the operation instructions for each component you wish to connect to this unit.

·After you have completed all connections, check them again to make sure they are correct. · The jack names correspond to the names on the input selector. I Connecting to digital jacks This unit has digital jacks for direct transmission of digital signals through either a coaxial or fiber optic cable. You can use the digital jacks to input PCM, Dolby Digital and DTS bitstreams. Use digital connections if you wish to enjoy the multi-channel sound track of DVD material, etc. with DSP effects. Both digital input jacks are acceptable for 96 kHz sampling digital signals. Note · The OPTICAL jack on this unit conform to the EIA standard. If you use a fiber optic cable that does not conform to EIA standard, this unit may not function properly. Signal flow inside this unit Input COMPONENT VIDEO VIDEO PREPARATION Output (MONITOR OUT) DIGITAL INPUT jacks (pages 9 12) 6CH INPUT jacks (page 13) Video component jacks (page 10) COMPONENT VIDEO jacks (page 11) Speaker terminals (page 16) 6CH INPUT R AUDIO L VIDEO TUNER Y COMPONENT VIDEO PB PR MONITOR OUT SPEAKERS SURROUND FRONT DVD R L DIGITAL INPUT CD SURROUND SUB WOOFER CENTER DTV /CBL 3 AM ANT DVD GND DTV /CBL R V-AUX COAXIAL OPTICAL CD IN VCR FM ANT 75 UNBAL.

A FRONT L CLASS 2 WIRING DTV /CBL 2 IN (PLAY) B FRONT R L OUT CENTER DVD 1 MD /CD-R OUT (REC) R L SUB WOOFER MONITOR OUT AUDIO OUTPUT Audio component jacks (page 12) SUBWOOFER OUTPUT jack (page 16) Antenna input terminals (page 13) This jack is reserved for factory use. Do not connect any equipment to this jack. 9 CONNECTIONS Connecting video components I Connecting a video monitor Connect the video input jack on your video monitor to the MONITOR OUT VIDEO jack. I Connecting another video component Connect the video signal output jack on your component to the VIDEO jack on this unit. Connect the audio signal output jacks on the component to the AUDIO jacks on this unit. I Connecting a DVD player/digital TV/cable TV Connect the optical digital audio signal output jack on your component to the DIGITAL INPUT jack and connect the video signal output jack on the component to the VIDEO jack on this unit. I Connecting a recording component y · Use the AUDIO jacks on this unit for a video component which does not have optical digital output jack. However, multi-channel reproduction cannot be obtained with audio signals input from the AUDIO jacks. If you wish to enjoy the surround sound, use q/DTS on the remote control (see page 28). · You can also connect a video monitor, DVD player, digital TV, and cable TV to this unit using the COMPONENT VIDEO connections (see page 11).

Connect the audio signal input jacks on your video component to the AUDIO OUT jacks on this unit. Then connect the video signal input jack on the video component to the VIDEO OUT jack on this unit for picture recording. Connect the audio signal output jacks on your component to the AUDIO IN jacks on this unit. Then connect the video signal output jack on the component to the VIDEO IN jack on this unit to play a source from your recording component. Notes · Once you have connected a recording component to this unit, keep its power turned on while using this unit.

If the power is off, this unit may distort the sound from other components. · If you connect your video monitor to this unit using a VIDEO connection, connect your video source components such as a DVD player or digital TV to this unit using the VIDEO connections. DVD player O OPTICAL OUTPUT O TV/digital TV/ cable TV Another video component OPTICAL OUTPUT L R AUDIO OUTPUT V VIDEO OUTPUT VIDEO OUTPUT V L R AUDIO OUTPUT OUTPUT V L R AUDIO OUTPUT 6CH INPUT R AUDIO L VIDEO FRONT DVD TUNER Y COMP PB DIGITAL INPUT CD SURROUND SUB WOOFER CENTER DTV /CBL AM ANT 3 V-AUX GND COAXIAL OPTICAL CD IN VCR FM ANT 75 UNBAL. DTV /CBL 2 IN (PLAY) OUT DVD 1 MD /CD-R OUT (REC) R L Video monitor SUB WOOFER MONITOR OUT V AUDIO OUTPUT VIDEO INPUT L indicates left analog cables indicates right analog cables indicates optical cables indicates video cables R AUDIO OUTPUT L R AUDIO INPUT L R V VIDEO INPUT V VIDEO OUTPUT O V VCR 10 CONNECTIONS I COMPONENT VIDEO jacks You can enjoy high-quality pictures by connecting your video monitor and video source components to this unit using COMPONENT VIDEO connections. COMPONENT VIDEO Y PB PR COMPONENT VIDEO Y PB PR MONITOR OUT Video monitor PREPARATION DVD Y PB PR DVD player DTV /CBL Y PB PR Digital TV/cable TV Y PB PR indicates component video cables Note · If you connect your video monitor to this unit using a COMPONENT VIDEO connection, connect your video source components such as a DVD player or digital TV to this unit using the VIDEO COMPONENT connections.

11 CONNECTIONS Connecting audio components I Connecting a CD player Connect the coaxial digital output jack on your CD player to the DIGITAL INPUT CD jack on this unit. Note · Once you have connected a recording component to this unit, keep its power turned on while using this unit. If the power is off, this unit may distort the sound from other components. y · Use the AUDIO jacks on this unit to connect to a CD player that does not have a COAXIAL DIGITAL OUTPUT jack, or to record from CD players. I Connecting a CD recorder or MD recorder Connect the input jacks on your CD recorder or MD recorder to the MD/CD-R OUT (REC) jacks. Connect the output jacks on your CD recorder or MD recorder to the MD/CD-R IN (PLAY) jacks to play a source from your recording component. L AUDIO OUTPUT R 6CH INPUT R AUDIO L VIDEO FRONT DVD TUNER CD player COAXIAL OUTPUT C DIGITAL INPUT CD SURROUND SUB WOOFER CENTER DTV /CBL 3 AM ANT GND V-AUX COAXIAL L OPTICAL CD IN VCR FM ANT 75 UNBAL. DTV /CBL 2 IN (PLAY) AUDIO OUTPUT R DVD OUT 1 MD /CD-R OUT (REC) R L CD recorder or MD recorder L SUB WOOFER MONITOR OUT AUDIO OUTPUT AUDIO INPUT R L indicates left analog cables indicates right analog cables indicates coaxial cables R C 12 CONNECTIONS Connecting the antennas Both AM and FM indoor antennas are included with this unit. In general, these antennas should provide sufficient signal strength. Connect each antenna correctly to the designated terminals.

AM loop antenna (included) Indoor FM antenna (included) I Connecting the AM loop antenna 1 Set up the AM loop antenna, then connect it to the terminals on this unit. PREPARATION DEO TUNER 2 AM ANT GND FM ANT 75 UNBAL. Press and hold the tab to insert the AM loop antenna lead wires into the AM ANT and GND terminals. MONITOR OUT 3 Ground (GND terminal) For maximum safety and minimum interference, connect the antenna GND terminal to a good earth ground. A good earth ground is a metal stake driven into moist earth. Orient the AM loop antenna for the best reception. Notes · The AM loop antenna should be placed away from this unit. · The AM loop antenna should always be connected, even if an outdoor AM antenna is connected to this unit. · A properly installed outdoor antenna provides clearer reception than an indoor one. If you experience poor reception quality, an outdoor antenna may improve the quality.

Consult the nearest authorized YAMAHA dealer or service center about the outdoor antennas. 13 CONNECTIONS Connecting an external decoder This unit is equipped with 6 additional input jacks (FRONT left and right, CENTER, SURROUND left and right and SUBWOOFER) for discrete multi-channel input from a component equipped with a multi-channel decoder and 6 channel output jacks such as a DVD/Super Audio CD player. 6CH INPUT R AUDIO L VIDEO FRONT DVD TUNER Y DIGITAL INPUT CD SURROUND SUB WOOFER CENTER DTV /CBL AM ANT 3 V-AUX GND COAX AL L R L R CENTER SURROUND SUBWOOFER FRONT DVD/Super Audio CD player Notes · When you select 6CH INPUT as the input source, this unit automatically turns off the digital sound field processor, and you cannot select sound field programs. · When headphones are used, only front L/R channels are output. 14 CONNECTIONS Connecting the speakers I Speaker placement FL C FR 30° Subwoofer The use of a subwoofer, such as the YAMAHA Active Servo Processing Subwoofer System, is effective not only for reinforcing bass frequencies from any or all channels, but also for high fidelity reproduction of the LFE (low frequency effect) channel included in Dolby Digital and DTS software.

The position of the subwoofer is not so critical, because low bass sounds are not highly directional. But it is better to place the subwoofer near the front speakers. Turn it slightly toward the center of the room to reduce wall reflections. PREPARATION SL 60° SR 80° SL SR The speaker layout above shows the standard ITU-R speaker setting. You can use it to enjoy CINEMA DSP, multi-channel audio sources.

1.8 m (6 ft) Front speakers (FR and FL) The front speakers are used for the main source sound plus effect sounds. Place these speakers an equal distance from the ideal listening position. The distance of each speaker from each side of the video monitor should be the same. Center speaker (C) The center speaker is for the center channel sounds (dialog, vocals, etc.). If for some reason it is not practical to use a center speaker, you can do without it. Best results, however, are obtained with the full system. Align the front face of the center speaker with the front face of your video monitor. Place the speaker centrally between the front speakers and as close to the monitor as possible, such as directly over or under it.

Surround speakers (SR and SL) The surround speakers are used for effect and surround sounds. Place these speakers behind your listening position, facing slightly inwards, about 1.8 m (6 ft) above the floor. 15 CONNECTIONS I Speaker connections Be sure to connect the left channel (L), right channel (R), "+" (red) and "" (black) properly. If the connections are faulty, no sound will be heard from the speakers, and if the polarity of the speaker connections is incorrect, the sound will be unnatural and lack bass. CAUTION · Use speakers with the specified impedance shown on the rear panel of this unit. · Before connecting the speakers, make sure that the power of this unit is off. · Do not let the bare speaker wires touch each other or do not let them touch any metal part of this unit. This could damage this unit and/or speakers. · Use magnetically shielded speakers.

If this type of speakers still creates the interference with the monitor, place the speakers away from the monitor. Connecting to the FRONT A SPEAKERS terminals A speaker cord is actually a pair of insulated cables running side by side. One cable is colored or shaped differently, perhaps with a stripe, groove or ridges. Connect the striped (grooved, etc.) cable to the "+" (red) terminals on this unit and your speaker.

Connect the plain cable to the "" (black) terminals. 1 10 mm (3/8") Remove approximately 10 mm (3/8") of insulation from the end of each of the speaker cables. Twist the exposed wires of the cable together to prevent short circuits. Loosen the head of the screw. Insert one bare wire into the hole in the side of each terminal.

Tighten the head of the screw to secure the wire. 1 Red: positive (+) Black: negative () 2 2 3 4 4 3 5 5 Banana plug Banana plug connections (With the exception of U.K., Europe and Asia models) First, tighten the knob and then insert the banana plug connector into the end of the corresponding terminal.

(With the exception of U.K., Europe and Asia models) Connecting to the FRONT B, CENTER and SURROUND SPEAKERS terminals Red: positive (+) Black: negative () 3 2 1 1 2 3 Press and open the tab. Insert one bare wire into the hole of each terminal. Release the tab to secure the wire. 16 CONNECTIONS Front A speaker Right Left Surround speaker Right Left 5 1 2 6 6CH INPUT R AUDIO L VIDEO SPEAKERS SURROUND FRONT DVD TUNER Y COMPONENT VIDEO PB PR MONITOR OUT R L DIGITAL INPUT CD SURROUND SUB WOOFER CENTER DTV /CBL AM ANT PREPARATION 3 V-AUX GND DVD COAXIAL OPTICAL CD IN VCR FM ANT 75 UNBAL.

DTV /CBL R A FRONT L CLASS 2 WIRING DTV /CBL 2 IN (PLAY) B FRONT R L OUT CENTER DVD 1 MD /CD-R OUT (REC) R L SUB WOOFER MONITOR OUT AUDIO OUTPUT 4 Subwoofer with built-in amplifier Right Left Front B speaker Center speaker 3 FRONT SPEAKERS terminals You can connect up to two speaker systems to these terminals. When using only one speaker system, connect it to either of the FRONT A or the FRONT B terminals. SURROUND SPEAKERS terminals A surround speaker system can be connected to these terminals. CENTER SPEAKER terminals A center speaker can be connected to these terminals. 3 2 1 4 5 6 The diagram shows the speaker layout in the listening room. SUBWOOFER jack When using a subwoofer with built-in amplifier, including the YAMAHA Active Servo Processing Subwoofer System, connect the input jack of the subwoofer system to this jack. This unit will direct low bass signals distributed from the front, center and/or surround channels to this jack in accordance with your SPEAKER SET selections. The LFE (lowfrequency effect) signals generated when Dolby Digital or DTS is decoded are also directed to this jack in accordance with your SPEAKER SET selections. Notes · The cut-off frequency of the SUBWOOFER jack is 90 Hz. · If you do not use a subwoofer, allocate the signals to the front left and right speakers by changing the setting of "SOUND 1 SPEAKER SET" item "1D BASS" on the set menu to FRONT.
· Use the control on the subwoofer to adjust its volume level. You can also adjust the volume level by using this unit's remote control (see "SETTING THE SPEAKER LEVELS" on page 50). 17 CONNECTIONS Connecting the power supply cord VOLTAGE SELECTOR Power cord VOLTAGE SELECTOR 110V-120V URROUND) L 220V-240V (Asia and General models) I Connecting the AC power cord Plug the power cord into an AC wall outlet. I VOLTAGE SELECTOR (Asia and General models only) The VOLTAGE SELECTOR on the rear panel of this unit must be set for your local main voltage BEFORE plugging into the AC main supply. Voltages are: 110 V - 120 V/220 V - 240 V AC, 50/60 Hz.
18 CONNECTIONS IMPEDANCE SELECTOR switch (U.S.A. and Canada models only) CAUTION Do not change the setting of the IMPEDANCE SELECTOR switch when the unit power is switched on, as doing so may damage the unit. If this unit fails to turn on when STANDBY/ON is pressed on either the front panel or remote control, the IMPEDANCE SELECTOR switch may not be fully slid to either position.
If this is the case, slide the switch all the way to either position when this unit is in standby mode. Select the switch position (upper or lower) according to the impedance of the speakers in your system. (U.S.A. model) IMPEDANCE SELECTOR FRONT A OR B:6MIN./SPEAKER CENTER :6MIN./SPEAKER SURROUND :6MIN./SPEAKER FRONT A OR B:8MIN./SPEAKER CENTER :8MIN.

/SPEAKER SURROUND :8MIN./SPEAKER PREPARATION IMPEDANCE SELECTOR switch Switch position Upper Speaker FRONT A OR B CENTER, SURROUND Impedance level The impedance of each speaker must be 6 or higher. The impedance of each speaker must be 6 or higher. The impedance of each speaker must be 8 or higher. The impedance of each speaker must be 8 or higher. Lower FRONT A OR B CENTER, SURROUND 19 CONNECTIONS Turning on the power When all connections are complete, turn on the power of this unit. 1 VOLUME STANDBY /ON PRESET/TUNING FM/AM A/B/C/D/E PRESET/TUNING MEMORY TUNING MODE EDIT NEXT SET MENU MAN'L/AUTO FM AUTO/MAN'L MONO PHONES SPEAKERS A/B/OFF STEREO PROGRAM INPUT MODE INPUT 6CH INPUT EFFECT TONE CONTROL BASS/TREBLE SILENT CINEMA SYSTEM POWER TV POWER AV STANDBY POWER 1 CD MD/CD-R TUNER SLEEP DVD D-TV/CBL VCR V-AUX REC AUDIO DISC SKIP 6CH INPUT CODE SET AMP TV + + + 1 Press STANDBY/ON (or SYSTEM POWER on the remote control) to turn on the power of this unit. SYSTEM POWER STANDBY /ON or Front panel Remote control The level of the volume, and then the current sound field program name appear on the front panel display. 20 BASIC SYSTEM SETTINGS The "BASIC" menu allows you to set some of the basic "SOUND" menu parameters with a minimum of effort. If you wish to configure the unit more precisely to suit your listening environment, use the more detailed parameters from the "SOUND" menu instead of those under the "BASIC" menu (see page 40).
Altering any parameters in the BASIC menu will reset all parameters in the "SOUND" menu. Using the basic menu Use the remote control to make adjustments. · Press SPEAKERS A/B/OFF on the front panel to select the front speakers you want to use. · Make sure you disconnect headphones from this unit. AMP 4 Press u / d to change the display to the setting you want to alter.
1 SETUP Changes the speaker and amplifier settings to suit the size of the room you are using. Refer to "Setting the unit to match your speaker system" on page 23 for more information. 2 SP LEVEL Adjusts the output levels of the speakers. Refer to "SP LEVEL" on page 23 for more information. PREPARATION TV 1 + VOL + CH + VOLUME MUTE INPUT MUTE HALL 1 MUSIC 5 /DTS 9 LEVEL TITLE JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER SET MENU TV THTR MOVIE1 6 NIGHT 0 7 6.
1/5.1 +10 MENU A/B/C/D/E TEST SELECT + DISPLAY 2 4,7 3,5 5 6 7 Press j / i to enter the desired setting mode. Change the unit settings to suit your listening environment. Press u / d to exit from the set menu. The front panel display changes in the following order: RETURN PRESET/CH 1 2 Press AMP. AMP Press SET MENU. "BASIC MENU" appears on the front panel display. SET MENU MENU A/B/C/D/E Exit SELECT + PRESET/CH BASIC MENU If the front panel display changes to show anything other than "BASIC MENU", press SET MENU until it displays "BASIC MENU". 3 Press j / i to enter into the BASIC menu. "1 SETUP" appears on the front panel display.

SELECT BASIC SOUND INPUT OPTION + 1 SETUP Exit PRESET/CH 21 BASIC SYSTEM SETTINGS Basic menu operation sequence SET MENU BASIC SOUND INPUT OPTION 1 SETUP Press j / i to alter the settings for each parameter. Use d to move to the next setting. 2 SP LEVEL Press j / i to adjust the balance between each speaker and the front left speaker. Use d to move to the next setting. 1 ROOM Choose from S/M/L. 1 FL-R Adjust the balance between the front left and right speakers. 2 SUBWOOFER Choose either of YES/NONE. 2C Adjust the balance between the front left and center speakers. 3 SPEAKERS Choose from 2/3/4/5 spk. 3 SL Adjust the balance between the front left and surround left speakers.

CANCEL 4 SET/CANCEL Choose either of SET/CANCEL. 4 SR Adjust the balance between the front left and surround right speakers. SET YES NO 5 CHECK OK: Choose either of YES/NO. 5 SWFR Adjust the balance between the front left speaker and the subwoofer. · After altering the "1 SETUP" parameters, readjust the output levels of the speakers at "2 SP LEVEL".

· See pages 40 45 for a detailed explanation of the "SOUND", "INPUT" and "OPTION" menus. 22 BASIC SYSTEM SETTINGS Setting the unit to match your speaker system Follow the instructions below to set the amplifier output to match the size of your room and speakers. Press u / d to cycle through parameters 1 through 4, and j / i to alter the parameter setting. Factory default settings are highlighted. 1 ROOM Settings: S, M, L Select the size of the room you have installed your speakers in.

Roughly speaking, the room sizes are defined as follows: [U.S.A. and Canada models] S: 16 x 13 ft, 200 ft2 (4.8 x 4.0 m, 20 m2) M: 20 x 16 ft, 300 ft2 (6.3 x 5.0 m, 30 m2) L: 26 x 19 ft, 450 ft2 (7.9 x 5.8 m, 45 m2) [Other models] S: 3.

6 x 2.8 m, 10 m2 M: 4.8 x 4.0 m, 20 m2 L: 6.3 x 5.0 m, 30 m2 2 SUBWOOFER Settings: YES, NONE Select YES if you have a subwoofer in your system, or NONE if you do not. 3 SPEAKERS Settings: 2, 3, 4, 5 (spk) Select the number of speakers connected in your speaker configuration. This number does not include your subwoofer. Setting 2spk Display L R 4 SET or CANCEL Select SET to confirm the changes you made. Select CANCEL to exit SETUP MENU without altering any of the unit settings.

The unit will output a test tone to the speakers (see 5). 5 Use the test tone to check the speaker levels. When you select SET in 4, the display changes to "CHECK : Test Tone" for a few seconds, and the unit outputs a test tone to each of the speakers in turn twice. When the test tone begins, the display changes to "CHECK OK?--YES". If the test tone is output at the same volume from all of the speakers, select "CHECK OK: YES".

Press d to exit from the SETUP menu. If the volume of the test tone varies between speakers, press j / i to change the display to "NO". PREPARATION Note · The indicator of the speaker currently outputting the test tone flashes on the front panel display. SP LEVEL (Setting speaker output levels) Use this menu to compare and adjust the test tone output from each speaker to the output from the front left (or surround left) speaker so that the volume level for all speakers is identical. Press u / d to select a speaker, then adjust the balance using j / i.

Note · The unit outputs the test tone from the selected speaker and the front left (or surround left) speaker in turn. The indicator of the speaker currently outputting the test tone flashes on the front panel display. Speaker Front L/R 1 L-R Adjust the balance between the front left and right speakers. 2C Adjust the balance between the front left and center speakers. 3 SL Adjust the balance between the front left and surround left speakers. 4 SR Adjust the balance between the surround left and surround right speakers. 5 SWFR Adjust the balance between the front left speaker and the subwoofer. 3spk LCR Front L/R, Center Front L/R, Surround L/R Front L/R, Center, Surround L/R 4spk L SL R SR 5spk LCR SL SR y · You can also balance the speaker levels using test tone by pressing TEST on the remote control. 23 PLAYBACK 1 6 VOLUME 4 Press INPUT l / h repeatedly (or one of the input selector buttons on the remote control) to select the input you desire. The selected input source name and input mode appear on the front panel display for a few seconds.

STANDBY /ON PRESET/TUNING FM/AM A/B/C/D/E PRESET/TUNING MEMORY TUNING MODE EDIT NEXT SET MENU MAN'L/AUTO FM AUTO/MAN'L MONO PHONES SPEAKERS A/B/OFF STEREO PROGRAM INPUT MODE INPUT 6CH INPUT EFFECT INPUT CD MD/CD-R TUNER SLEEP TONE CONTROL BASS/TREBLE SILENT CINEMA or DVD D-TV/CBL VCR V-AUX 3 6 POWER TV AV 7 POWER STANDBY 47 SYSTEM Front panel Remote control POWER 1 PL VCR V-AUX DTV/CBL DVD MD/CD-R TUNER CD VOLUME CD MD/CD-R TUNER SLEEP 4 DVD D-TV/CBL VCR V-AUX DVD AUTO Input mode dB L R REC AUDIO DISC SKIP 6CH INPUT CODE SET 7 6 7 Selected input source AMP TV + VOL + CH + VOLUME MUTE INPUT MUTE 5 HALL 1 MUSIC 5 /DTS 9 LEVEL JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER SET MENU TV THTR MOVIE1 6 NIGHT 0 7 6.1/5.1 +10 Start playback or select a broadcast station on the source component. Refer to the operation instructions for the component. Adjust the volume to the desired level. VOLUME 1 6 Press STANDBY/ON (or SYSTEM POWER on the remote control) to turn on the power. SYSTEM + or VOLUME POWER STANDBY /ON or Remote control Front panel Front panel Remote control 2 3 Turn on the video monitor connected to this unit. Press SPEAKERS A/B/OFF on the front panel to select the front speakers you want to use. SPEAKERS A/B/OFF If desired, use TONE CONTROL and BASS/TREBLE -/+. These controls only effect the sound from the front speakers.

TONE CONTROL BASS/TREBLE Front panel Notes · If you increase or decrease the high-frequency or the lowfrequency sound to an extreme level, the tonal quality from the center and surround speakers may not match that of the front left and right speakers. · If you have connected a recording component to the VCR OUT, or MD/CD-R OUT jacks, and you notice distortion or low volume during playback from other components, try turning on the recording component. 24 PLAYBACK 7 Select a sound field program if desired. Press PROGRAM l / h (or press AMP to select the AMP mode, then press one of the field program buttons repeatedly on the remote control). See pages 30 - 37 for details about sound field programs.

HALL 1 JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER Playing video sources in the background You can combine a video image from a video source with a sound from an audio source.

For example, you can enjoy listening to classical music while having beautiful scenery from the video source on the video monitor. Use the input selector buttons to select a video source, then select an audio source. CD MD/CD-R TUNER SLEEP PROGRAM MUSIC TV THTR MOVIE1 6 NIGHT 0 7 6.1/5. 1 +10 or 5 /DTS 9 DVD D-TV/CBL VCR V-AUX Front panel Remote control Selecting the 6CH INPUT To mute the sound Press MUTE on the remote control. "MUTE" blinks on the front panel display. To resume audio output, press MUTE again. MUTE Press 6CH INPUT until "6CH INPUT" appears on the front panel display. 6CH INPUT 6CH INPUT or Front panel y Remote control BASIC OPERATION · You can also cancel mute by pressing VOLUME +/, etc. · You can adjust the muting level (see page 45). Night listening mode Note · If "6CH INPUT" is shown on the front panel display, no other source can be played. To select another input source, first press 6CH INPUT so that "6CH INPUT" disappears from the front panel display. This mode reproduces dialogue clearly while reducing the volume of loud sound effects for easier listening at low volumes or at night. Press NIGHT on the remote control.

The NIGHT indicator in the front panel display lights up. Press NIGHT once more to return to normal reproduction. NIGHT 0 y · You can use night listening mode with any of the sound field programs. · Night listening mode may vary in effectiveness depending on the input source and surround sound settings you use. When you have finished using this unit Press STANDBY/ON (STANDBY on the remote control) to set this unit in standby mode. STANDBY STANDBY /ON or Front panel Remote control 25 PLAYBACK Input modes and indications This unit is equipped with 2 types of input jacks. Do the following to select the type of input signals you want to use. Press INPUT MODE repeatedly until the desired input mode is shown on the front panel display. INPUT MODE Front panel VCR V-AUX DTV/CBL DVD MD/CD-R TUNER CD VOLUME PL DVD Selected input source AUTO Input mode dB L R AUTO DTS ANALOG Automatically selects input signals in the following order: 1) Digital signals* 2) Analog signals Selects only digital signals encoded in DTS. If no DTS signals are input, no sound is output.

Selects only analog signals. If no analog signals are input, no sound is output. * If this unit detects a Dolby Digital or DTS signal, the decoder automatically switches to the appropriate sound field program. y You can adjust the default input mode on this unit (see page 44). Notes · When you play DTS encoded CD/LDs with the input mode set to AUTO: This unit automatically switches to the DTS decoding mode.
The unit remains in DTS mode (and the "t" indicator may flash) for up to 30 second after playback of the DTS source is complete. To manually release the DTS mode, press INPUT MODE to reselect AUTO. The DTS decoding mode may be released if search or skip operations are performed for more than 30 seconds. To prevent this, press INPUT MODE to select DTS. · If the digital output data of the player has been processed in any way, you may not be able to perform DTS decoding even if you make a digital connection between this unit and the player.

26 PLAYBACK Selecting a sound field program You can enhance your listening experience by selecting sound field programs. For details about each program, see pages 30 33. VOLUME 3 After selecting the desired program, press the same button repeatedly to cycle through sub-programs if available. Example: Pressing MOVIE 2 repeatedly switches the sub-program between "Adventure" and "General". HALL 1 JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER PROGRAM STANDBY /ON MUSIC TV THTR MOVIE1 6 NIGHT 0 7 6.1/5.1 +10 or PRESET/TUNING FM/AM A/B/C/D/E PRESET/TUNING MEMORY TUNING MODE EDIT NEXT SET MENU MAN'L/AUTO FM AUTO/MAN'L MONO 5 /DTS 9 PHONES SPEAKERS A/B/OFF STEREO PROGRAM INPUT MODE INPUT 6CH INPUT EFFECT TONE CONTROL BASS/TREBLE SILENT CINEMA Front panel Remote control V-AUX DTV/CBL DVD MD/CD-R TUNER CD VOLUME 2,3 AMP VCR TV 1 Notes + VOL + CH + VOLUME General dB LCR SR LFE SL MUTE INPUT MUTE HALL 1 MUSIC 5 /DTS 9 EVE JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER SET MENU TV THTR MOVIE1 6 NIGHT 0 7 6.1/5.1 +10 2,3 1 2 Press AMP. AMP Press one of the sound field program buttons on the remote control to select the desired program.

The name of the selected program appears on the front panel display. HALL 1 JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER PROGRAM MUSIC TV THTR MOVIE1 6 NIGHT 0 7 6.1/5.1 +10 or 5 /DTS 9 Front panel Remote control VCR V-AUX DTV/CBL DVD MD/CD-R TUNER CD VOLUME · There are 9 programs with sub-programs available with this unit. However, the selection depends on the input signal format and not all sub-programs can be used with all input signal formats. · You cannot use the digital sound field processor with a source connected to the 6CH INPUT jacks of this unit or when the unit is reproducing a digital source with a sampling frequency greater than 48 kHz. · The acoustics of your listening room affect sound field programs. Minimize sound reflections in your room to maximize the effect created by the program. · When you select an input source, this unit automatically selects the last sound field program used with that source. · When you set this unit in standby mode, it stores the current source and sound field program in memory and automatically selects them when you turn on the power again.
· If the unit receives a Dolby Digital or DTS signal when the input mode is set to AUTO, the sound field program (No. 79) automatically switches to the appropriate decoding program. · When the unit is reproducing a monaural source with PRO LOGIC or PRO LOGIC/Enhanced, or PRO LOGIC II Movie, no sound is output from the front and surround speakers. Sound can only be heard from the center speaker. (If "1A CENTER" on the set menu is set to NONE, the center channel sound is output from the front speakers.
) BASIC OPERATION Adventure y dB LCR SR LFE SL · Select a program based on your listening preference. Program names are just for reference. 27 PLAYBACK Selecting PRO LOGIC or PRO LOGIC II You can listen to 2-channel sources decoded into four discrete channels by selecting PRO LOGIC or five discrete channels by selecting PRO LOGIC II in program No. 9 (refer to the list on page 32). AMP Playing Dolby Digital EX or DTS ES material Press 6. 1/5.1 to turn on the Dolby Digital + Matrix 6.

1 or DTS + Matrix 6.1 decoder. 6.1/5.1 +10 TV 2 (Example) VCR MATRIX + VOL + CH + VOLUME MUTE INPUT MUTE HALL 1 MUSIC 5 JAZZ 2 ROCK 3 ENTERTAINMENT 4 MOVIE2 8 STEREO ENTER SET MENU TV THTR MOVIE1 6 NIGHT 0 7 6.1/5.1 +10 V-AUX DTV/CBL DVD MD/CD-R TUNER CD VOLUME 3 /DTS 9 LEVEL AUTO:--- dB LCR SR LFE SL 1 2 3 Select a 2-channel source and start playback on the source component. Press AMP.

AMP Press q/DTS. /DTS 9 The display changes AUTOMatrix 6.1OFF each time 6.1/5.1 is pressed. AUTO: Automatically switches Dolby Digital + Matrix 6.1 and DTS + Matrix 6.1 depending on the signal. Virtual surround back speaker does not work for 5.1- channel sources.
Matrix 6.1: Produces 6-channel playback of the input source using the Matrix 6.1 decoder. The virtual surround back speaker can be used when playing a 5.1-channel source.
OFF: Virtual surround back speaker does not work. Notes · Some 6.1-channel compatible discs do not have a signal (flag) that this unit can automatically detect. Select "Matrix 6.1" to play these kinds of discs with 6.
1-channel sound. · 6.1-channel playback is not possible even if you press 6.1/5.1 in the following cases: When effects are turned off. When the source connected to the 6CH INPUT jacks is being played. When the unit is reproducing a Dolby Digital KARAOKE source. When headphones are connected to the PHONES jack. · The 6.1/5.

1 setting resets to AUTO when you turn the unit power off. VCR V-AUX DTV/CBL DVD MD/CD-R TUNER CD VOLUME PL PRO LOGIC dB L R The display cycles as follows each time you press q/ DTS: PRO LOGICPRO LOGIC EnhancedPRO LOGIC II MoviePRO LOGIC II MusicPRO LOGIC.... y · You can select PRO LOGIC, PRO LOGIC Enhanced, PRO LOGIC II Movie, and PRO LOGIC II Music by pressing PROGRAM l / h on the front panel repeatedly. 28 PLAYBACK With Virtual CINEMA DSP, you can enjoy all sound field programs without surround speakers. It creates virtual speakers to reproduce a natural sound field. You can listen to virtual CINEMA DSP by setting "1C SURR" in the set menu to NON. Sound field processing changes to Virtual CINEMA DSP automatically.
I Virtual CINEMA DSP Notes · If you turn off the sound effects, no sound is output from the center speaker or surround speakers. · If you turn off the sound effects while the unit is reproducing sound from a Dolby Digital or DTS signal, the dynamic range of the signal is automatically compressed and the unit will mix the sounds of the center and surround speaker channels and output them from the front speakers. · The volume may be greatly reduced when you turn off the sound effects or if you set "SOUND 4 D. RANGE (dynamic range)" on the set menu to MIN. @@ When the sound effect is turned off.
When 6CH INPUT is selected as the input source. @@ When using the test tone. @@@@@@@@@@@@@@@@fs: The display shows the sampling frequency. When the unit is unable to detect the sampling frequency "Unknown" shows in the front panel display. rate: The display shows the bit rate. When the unit is unable to detect the bit rate "Unknown" shows in the front panel display. flg: The display shows the flag - data encoded in a DTS or Dolby Digital signal that causes this unit to automatically switch to the appropriate decoder for playback. Front panel Remote control 29 DIGITAL SOUND FIELD PROCESSING (DSP) Understanding sound fields A sound field is defined as the "characteristic sound reflections of a particular space." In concert halls and other music venues, we hear early reflections and reverberations as well as the direct sound produced by the artist(s).
@@@@@@@@@@@@@@@@@@@@A large, extremely famous concert hall in China with approx. 650 seats on the first floor and approx. 500 seats on the second floor. @@Your virtual seat is near the center on the first floor. @@@@The ideal program for lively, dynamic rock music. @@The listener's virtual seat is at the center-left of the hall.

@@The sound is dense and highly concentrated. @@Using this program increases the listening position range. @@@@@@@It recreates comprehensive movie sound design in your audio room. @@@@You can select CINEMA DSP programs to optimize these decoders and the DSP sound patterns depending on the input source. CINEMA DSP Programs The following list gives you a brief description of the sound fields produced by each of the sound field programs. Keep in mind that most of these are precise digital recreations of actual acoustic environments. Select the sound field program that you feel sounds best regardless of the name and description given for it below. I For audio-video sources: No. 4 to 6 No. 4 Program ENTERTAINMENT/ Game MUSIC VIDEO Features This program adds a deep and spatial feeling to video game sounds.
5 This program lends an enthusiastic atmosphere to the sound, giving you the feeling you are at an actual jazz or rock concert. This program is provided for reproducing monaural video sources (such as old movies). The program produces the optimum reverberation to create sound depth using only the presence sound field. Though the presence sound field is relatively narrow, the surround sound field employs the sound environment of a large concert hall. This effect enhances the experience of watching various TV programs such as news, variety shows, music programs or sports programs.
6 TV THEATER/ Mono Movie TV THEATER/Variety/ Sports 31 CINEMA DSP I For movie programs No. 7 Program MOVIE THEATER 1 Spectacle Features This program creates the extremely wide sound field of a 70-mm movie theater. It precisely reproduces the source sound in detail, making both the video and the sound field incredibly real. This is ideal for any kind of video source encoded with Dolby Surround, Dolby Digital or DTS (especially large-scale movie productions). This program clearly reproduces dialog and sound effects in the latest sound form of science fiction films, thus creating a broad and expansive cinematic space amid the silence.
You can enjoy science fiction films in a virtual-space sound field that includes Dolby Surround, Dolby Digital and DTS-encoded software employing the most advanced techniques. This program is ideal for precisely reproducing the sound design of the newest 70-mm and multichannel soundtrack films. The sound field is made to be similar to that of the newest movie theaters, so the reverberations of the sound field itself are restrained as much as possible. This program is for reproducing sounds from 70-mm and multichannel soundtrack films, and is characterized by a soft and extensive sound field. The presence sound field is relatively narrow. It spatially spreads all around and toward the screen, restraining the echo effect of conversations without losing clarity. The built-in decoder reproduces source sounds and sound-effects precisely.