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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-DS484. You'll find the answers to all your questions on the ONKYO TX-DS484 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

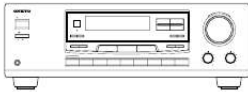
User manual ONKYO TX-DS484
User guide ONKYO TX-DS484
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ONKYO

AV Receiver

TX-DS484

Instruction Manual



Thank you for purchasing the Onkyo AV Receiver. Please read this manual thoroughly before making connections and turning on the power. Following the instructions in this manual will enable you to obtain optimum performance and listening enjoyment from your new AV Receiver. Please retain this manual for future reference.

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Manual abstract:

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25 Thank you for purchasing the Onkyo AV Receiver. @@@@Please retain this manual for future reference. Appendix Troubleshooting guide...

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NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL. The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons. The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Important Safeguards 1.

Read Instructions All the safety and operating instructions should be read before the appliance is operated. 2. **Retain Instructions** The safety and operating instructions should be retained for future reference. 3. **Heed Warnings** All warnings on the appliance and in the operating instructions should be adhered to.

4. **Follow Instructions** All operating and use instructions should be followed. 5. **Cleaning** Unplug the appliance from the wall outlet before cleaning. The appliance should be cleaned only as recommended by the manufacturer.

6. **Attachments** Do not use attachments not recommended by the appliance manufacturer as they may cause hazards. 7. **Water and Moisture** Do not use the appliance near water for example, near a bath tub, wash bowl, kitchen sink, or laundry tub; in a wet basement; or near a swimming pool; and the like. 8.

Accessories Do not place the appliance on an unstable cart, stand, tripod, bracket, or table. The appliance may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the appliance. Any mounting of the appliance **PORTABLE CART WARNING** should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer. 9.

An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn. 10. **Ventilation** Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the appliance and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the appliance on a bed, sofa, rug, or other similar surface.

The appliance should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided. There should be free space of at least 20 cm (8 in.) and an opening behind the appliance. 11. **Power Sources** The appliance 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 appliance dealer or local power company. 12. **Grounding or Polarization** The appliance 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. 13. **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 appliance.

14. **Outdoor Antenna Grounding** If an outside antenna or cable system is connected to the appliance, 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. See Figure 1. 15.

Lightning For added protection for the appliance 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 appliance due to lightning and power-line surges. 16. **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.

17. **Overloading** Do not overload wall outlets, extension cords, or integral convenience receptacles as this can result in a risk of fire or electric shock. 18. **Object and Liquid Entry** Never push objects of any kind into the appliance 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 appliance.

19. **Servicing** Do not attempt to service the appliance yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel. 20. **Damage Requiring Service** Unplug the appliance 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 appliance, C. If the appliance has been exposed to rain or water, D. If the appliance 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 appliance to its normal operation, E.



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If the appliance has been dropped or damaged in any way, and F. When the appliance exhibits a distinct change in performance this indicates a need for service. 21. 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.

22. Safety Check Upon completion of any service or repairs to the appliance, ask the service technician to perform safety checks to determine that the appliance is in proper operation condition. 23. Wall or Ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer. 24. Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat. FIGURE 1: EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE, ANSI/NFPA 70 ANTENNA

LEAD IN WIRE GROUND CLAMP ANTENNA DISCHARGE UNIT (NEC SECTION 810-20) ELECTRIC SERVICE EQUIPMENT GROUNDING CONDUCTORS (NEC SECTION 810-21) GROUND CLAMPS NEC NATIONAL ELECTRICAL CODE Precautions 1. Warranty Claim You can find the serial number on the rear panel of this unit. In case of warranty claim, please report this number. 2.

Recording Copyright Recording of copyrighted material for other than personal use is illegal without permission of the copyright holder. 3. AC Fuse The fuse is located inside the chassis and is not user-serviceable. If power does not come on, contact your Onkyo authorized service station. 4.

Care From time to time you should wipe the front and rear panels and the cabinet with a soft cloth. For heavier dirt, dampen a soft cloth in a weak solution of mild detergent and water, wring it out dry, and wipe off the dirt. Following this, dry immediately with a clean cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since these could damage the finish or remove the panel lettering. 5.

Power S2898A POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H) For U.S. model Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, ANSI/NFPA 70, which 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. FCC Information for User CAUTION: The user changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. 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. WARNING BEFORE PLUGGING IN THE UNIT FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY. The voltage of the available power supply differs according to country or region. Be sure that the power supply voltage of the area where this unit will be used meets the required voltage (e.g., AC 230 V, 50 Hz or AC 120 V, 60 Hz) written on the rear panel. Worldwide models are equipped with a voltage selector to conform to local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit. For British model Replacement and mounting of an AC plug on the power supply cord of this unit should be performed only by qualified service personnel.

For Canadian model CAUTION: THIS DIGITAL APPARATUS DOES NOT EXCEED THE CLASS B LIMITS FOR RADIO NOISE EMISSION FROM DIGITAL APPARATUS SET OUT IN THE RADIO INTERFERENCE REGULATIONS OF THE CANADIAN DEPARTMENT OF COMTEcted over a period of a few weeks after the last time the unit has been unplugged. This period is shorter when the unit is exposed to a highly humid climate. **Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic" and the double-D symbol are trademarks of Dolby Laboratories. Confidential Unpublished Works. ©1992-1997 Dolby Laboratories, Inc. All rights reserved. Declaration of Conformity We, ONKYO EUROPE ELECTRONICS GmbH INDUSTRIESTRASSE 20 82110 GERMERING, GERMANY declare in own responsibility, that the ONKYO product described in this instruction manual is in compliance with the corresponding technical standards such as EN60065, EN55013, EN55020 and EN61000-3-2, -3-3 (or EN60555-2, -3). GERMERING, GERMANY K.OTSU ONKYO EUROPE ELECTRONICS GmbH 4 Before operating this unit AM FREQUENCY STEP 10kHz 9kHz Setting the AM tuning step frequency (Worldwide models only) Worldwide models are equipped with a switch that controls the AM band tuning steps.

Please set this switch to match the AM band tuning step frequency in your area. U.S.A. and Canada : 10 kHz Other areas : 9 kHz AC OUTLETS SWITCHED TOTAL 100W MAX. ANTENNA R AM (REC) OUT SUB WOOFER PRE OUT COAXIAL 2 COAXIAL 1 OPTICAL CENTER R L L DIGITAL INPUT R MONITOR OUT FRONT L R L REMOTE CONTROL TAPE (PLAY) IN SURROUND R L SURROUND SPEAKERS A DVD FM 75 IN CENTER SPEAKER VIDEO 1 GND IN SUB CENTER WOOFER AM FREQUENCY STEP 10kHz 9kHz OUT TX-DS484 B L VIDEO 2 IN MULT I CH I INPUT V R PHONO CD R L R L 220-230V 120V VOLTAGE SELECTOR FRONT SPEAKERS Setting the Voltage selector (Worldwide models only) Worldwide models are equipped with a voltage selector to conform with local power supplies. Be sure to set this switch to match the voltage of the power supply in your area before plugging in the unit. 1. Determine the proper voltage for your area: 220-230 V or 120 V. 2.

If the preset voltage is not correct for your area, insert a screwdriver into the groove in the switch. Slide the switch all the way to the right (120 V) or to the left (220-230 V), whichever is appropriate.



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220-230V 120V VOLTAGE SELECTOR Installing the remote controller batteries 1. Remove the battery compartment cover by pressing the tab and lifting up the cover. 2. Insert two AA (R6- or UM-3)-size batteries into the battery compartment. Carefully follow the polarity diagram (positive (+) and negative (-) symbols) inside the battery compartment. 3. After batteries are installed and seated correctly, replace the compartment cover. + + 2 · Do not mix new batteries with old batteries or different kinds of · To avoid corrosion, remove the batteries if the remote controller · Remove dead batteries immediately to avoid damage from corrosion not to be used for a long time.

rosion. If the remote controller doesn't operate smoothly, replace both the batteries at the same time. The life of the batteries supplied is about six months but this will vary depending on usage. batteries. Notes 3 · Using the remote controller Point the remote controller toward the remote control sensor.

The STANDBY indicator lights up when the unit receives a signal from the remote controller. Notes · Place the unit away from strong light such as direct sunlight or inverted fluorescent light which can prevent proper operation of the remote controller. · Using another remote controller of the same type in the same room or using the unit near equipment which uses infrared rays may cause operational interference. · Do not put any object such as a book on the remote controller. The buttons of the remote controller may be pressed by mistake and drain the batteries.

· Make sure the audio rack doors do not have colored glass. Placing the unit behind such doors may prevent proper remote controller operation. · If there is any obstacle between the remote controller and the remote control sensor, the remote controller will not operate. Remote control sensor TX-DS484 STANDBY indicator 30° 30° approx. 5 m (16 feet) 5 Audio equipment connections · On each pair of input jacks, a red connector (marked R) corresponds to the right · · · channel, and a white connector (marked L) to the left channel. Please refer to the instruction manual of each component when making any connections. This receiver is designed for use with turntables using moving magnet cartridges. Insert the plugs and connectors securely. Remember that improper connection can result in noise, poor performance, or damage to the equipment. Audio connection cable L (Left) L R (Right) R Improper connection Tape Deck INPUT (REC) OUTPUT (PLAY) Insert completely See page 7 ANTENNA R AM (REC) OUT SUB WOOFER PRE OUT COAXIAL 2 COAXIAL 1 OPTICAL CENTER R L L DIGITAL INPUT R MONITOR OUT FRONT L R L REMOTE CONTROL TAPE (PLAY) IN SURROUND R L SURROUND SPEAKERS AC OUTLETS AC 230V 50Hz SWITCHED TOTAL 100W MAX.

A DVD FM 75 IN CENTER SPEAKER VIDEO 1 GND IN SUB CENTER WOOFER OUT TX-DS484 B L VIDEO 2 IN MULTI CH I NPUT V R PHONO CD R L R L FRONT SPEAKERS To wall outlet Ground OUTPUT Turntable OUTPUT (ANALOG) CD Player OUTPUT (COAXIAL) OUTPUT (DIGITAL) Do not plug in the power cord until all connections have been made. · signal flow · A DVD or other component equipped with a digital output can be connected to this receiver. The digital connection must be used in conjunction with an analog connection, because if the analog cable is disconnected, the audio output from TAPE OUT and VIDEO 2 will not work. 6 Video equipment connections · On each pair of input jacks, a red connector (marked R) corresponds to the right · · channel, and a white connector (marked L) to the left channel. A yellow connector (marked V) is used for video connection. Please refer to the instruction manual of each component when making any connections. Audio connection cable L (Left) L R (Right) Video connection cable V (Video) R V Digital audio connections This receiver has a powerful digital signal processor for use with DVD players, DAT decks, MD player, and CD players. The digital inputs, COAXIAL 1, 2 and OPTICAL can be assigned to individual input selector buttons, so when an input selector button is pressed, the assigned digital input is used instead of the corresponding analog input. (See page 19.) DVD Player AUDIO OUTPUT VIDEO OUTPUT DIGITAL OPTICAL OUTPUT DIGITAL COAXIAL OUTPUT ANTENNA R AM (REC) OUT SUB WOOFER PRE OUT COAXIAL 2 COAXIAL 1 OPTICAL CENTER R L L DIGITAL INPUT R MONITOR OUT FRONT L R L REMOTE CONTROL TAPE (PLAY) IN SURROUND R L SURROUND SPEAKERS AC OUTLETS AC 230V 50Hz SWITCHED TOTAL 100W MAX.

A DVD FM 75 IN CENTER SPEAKER VIDEO 1 GND IN SUB CENTER WOOFER OUT TX-DS484 B L VIDEO 2 IN MULTI CH I NPUT V R PHONO CD R L R L FRONT SPEAKERS VIDEO IN AUDIO IN AUDIO OUT Video Cassette Recorder VIDEO IN VIDEO OUT : signal flow Monitor TV Notes: · When using a playback-only VCR, you need to make only the output connections. · This receiver can be used with only a monitor TV equipped with a video input jack. · Interference may be caused between the TV and this receiver. If this interference occurs, place the receiver and the TV as far apart as possible. We do not recommend the use of a common TV/FM antenna (see antenna section).

· A DVD or other component equipped with a digital output can be connected to this receiver. The digital connection must be used in conjunction with an analog connection, because if the analog cable is disconnected, the audio output from TAPE OUT and VIDEO 2 will not work. · Remove the protective cap attached to the DIGITAL INPUT OPTICAL jack before making the connection. When this jack is not used, replace the protective cap. 7 Connecting other devices · On each pair of input jacks, a red connector (marked R) corresponds to the right · · channel, and a white connector (marked L) to the left channel. A yellow connector (marked V) is used for video connection. Please refer to the instruction manual of each component when making any connections. Audio connection cable L (Left) L R (Right) Video connection cable V (Video) Monaural audio cable (mono) R V Decoder with 5.1 channel output You may connect the 5.1 channel outputs of an external decoder (such as MPEG decoder) to the MULTI CH INPUTS of this unit. Use the DVD player or decoder controls to adjust the speaker settings for multi-channel input. DVD player or a decoder with Multi (5.1) channel outputs AUDIO OUT VIDEO OUT SURROUND OUT SUBWOOFER OUT CENTER OUT MULTI CHANNEL FRONT OUT ANTENNA R AM (REC) OUT SUB WOOFER PRE OUT COAXIAL 2 COAXIAL 1 OPTICAL CENTER R L L DIGITAL INPUT R MONITOR OUT FRONT L R L REMOTE CONTROL TAPE (PLAY) IN SURROUND R L SURROUND SPEAKERS AC OUTLETS AC 230V 50Hz SWITCHED TOTAL 100W MAX.



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A DVD FM 75 IN CENTER SPEAKER VIDEO 1 GND IN SUB CENTER WOOFER OUT TX-DS484 B L VIDEO 2 IN MULT I CH I NPUT V R PHONO CD R L R L FRONT SPEAKERS 8 Connecting other devices AC outlet connection ANTENNA R AM (REC) OUT SUB WOOFER PRE OUT COAXIAL 2 COAXIAL 1 OPTICAL CENTER R L L DIGITAL INPUT R MONITOR OUT FRONT L R L REMOTE CONTROL TAPE (PLAY) IN SURROUND R L SURROUND SPEAKERS A DVD FM 75 IN CENTER SPEAKER AC OUTLETS AC120V 60Hz SWITCHED TOTAL 120W 1A MAX. VIDEO 1 GND IN SUB CENTER WOOFER OUT TX-DS484 B L VIDEO 2 IN MULT I CH I NPUT V R PHONO CD R L R L FRONT SPEAKERS Worldwide and European models U.

S.A. and Canadian models Capacity is total 120 watts. Capacity is total 100 watts. You can connect the power cord from another audio device to the rear of this receiver. Since the AC outlets on the unit are a SWITCHED type outlet, you can use the STANDBY/ON button, or the POWER button on the remote controller to turn on/off the power to both this receiver and the connected audio devices. First turn the POWER switch ON (ON). The shape, number, and total capacity of the AC outlets may differ depending on the area of purchase. Make sure that the total capacity of other components connected to this unit does not exceed the capacity that is printed on the rear panel. TX-DS484 ANTENNA R AM (REC) OUT Connections for remote control (CENTER R L) SUB WOOFER PRE OUT COAXIAL 2 COAXIAL 1 OPTICAL L DIGITAL INPUT R MONITOR OUT FRONT L R L REMOTE CONTROL TAPE (PLAY) IN SURROUND R L SURROUND SPEAKERS AC OUTLETS AC 230V 50Hz SWITCHED TOTAL 100W MAX.

A DVD FM 75 IN CENTER SPEAKER VIDEO 1 GND IN SUB CENTER WOOFER You can use the remote controller of this receiver to operate cassette tape decks, compact disc players and DVD players that have Onkyo connectors. Connect a remote control cable to the connector with the mark. · An remote control cable equipped with a 3.5mm (1/8 in.)-diameter miniature twoconductor phone plug comes with every compact disc player, cassette tape deck, or DVD player that has an connector.

· Remote control operation is not possible if only the remote control cable is connected the audio connection cables must also be connected. · This receiver's remote controller does not support control of Onkyo turntables. · If the connecting device has two connectors lined-up vertically or horizontally, you can use either of them. They both offer the same functionality. OUT TX-DS484 B L VIDEO 2 IN MULT I CH I NPUT V R PHONO CD R L R L FRONT SPEAKERS CD Player Cassette Tape Deck DVD Player 9 Connecting speakers · If you want to use the surround effects, connect surround speakers.

For the best results, connect a center speaker. · Use FRONT SPEAKERS B terminals to connect a second pair of front speakers. · This receiver is designed to produce optimum sound quality when speakers with impedances within the specified ranges are connected. Please check the following information and choose speakers with appropriate impedances for the connections. FRONT SPEAKERS: A or B: 6 ohms min./speaker SURROUND SPEAKERS: 6 ohms min./speaker CENTER SPEAKER: 6 ohms min. Connecting the speaker cable 1. Twist wire ends very tight. 15 mm NOTE: To prevent damage to circuitry, never short-circuit the positive (+) and negative (-) speaker wire.

NO 2. Unscrew. 3. Insert the wire. 4. Screw. Front Speakers A Active subwoofer R ch. L ch. Surround Speakers R ch. L ch.

+ + + + ANTENNA R AM (REC) OUT SUB WOOFER PRE OUT COAXIAL 2 COAXIAL 1 OPTICAL CENTER R L L DIGITAL INPUT R MONITOR OUT FRONT L R L REMOTE CONTROL TAPE (PLAY) IN SURROUND R L SURROUND SPEAKERS AC OUTLETS AC 230V 50Hz SWITCHED TOTAL 100W MAX. A DVD FM 75 IN CENTER SPEAKER VIDEO 1 GND IN SUB CENTER WOOFER OUT TX-DS484 B L VIDEO 2 IN MULT I CH I NPUT V R PHONO CD R L R L FRONT SPEAKERS + + + R ch. L ch. Center Speaker Front Speakers B · When you use only one speaker or wish to listen to monaural (mono) sound, a single speaker should never be connected in parallel to both the right and left channel terminals simultaneously. + + R L + + R L 10 Positioning speakers Positioning speakers Speaker placement plays an important role in the reproduction of Surround sound.

The placement of the speakers varies depending on the size of the room and the wall coverings used in the room. The illustration shows an example of a layout for standard speaker placement. Refer to this example when you position the speakers in order to experience the best of Surround sound. Fro spe nt ak Righ er t TV or Screen nt Fro er ak spe ft Le Subwoofer speaker Center speaker Standard speaker placement For ideal Surround effects, all speakers should be installed. If a center speaker or subwoofer is not connected, the sound from the unused channel is properly distributed to the connected speakers in order to produce the best Surround sound possible.

Front: The left, right, and center speakers should face the seated listener and be placed at ear level. The center speaker produces a richer sound image by enhancing the perception of the sound's source and movement. Surround: Place the left and right Surround speakers 1 meter (3 feet) above the listener's ear level and facing toward the sides of the room, making sure that the listener is within the speakers' dispersion angle. These speakers produce the feel of a moving sound while creating the sensation of being in the middle of the action. Subwoofer: Install a subwoofer with a built-in power amplifier for powerful bass sounds. The placement of the subwoofer does not affect the final quality of the sound image too much, so you can install it with the room layout in mind.

Refer to the speaker's instruction manual for more details. Surround speaker Left Listener Surround speaker Right Connecting the power Connecting the power 3. STANDBY/ON button 2. POWER switch STANDBY indicator Display MASTER VOLUME W N · Before you plug in the receiver, confirm that all connections · Turning on this receiver's power may cause a momentary power surge, which might interfere with other electrical equipment, such as computers.

If this happens, use a wall outlet on a different circuit. 1. To wall AV RECEIVER U have been made properly. STANDBY/ON PARAMETER SELECTOR P STANDBY POWER PARAMETER CONTROLLER PRESET TUNING DO ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE CLEAR BASS TREBLE PHONES MUL CH INPUT TI DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD TX-DS484 outlet 3.



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POWER button POWER SLEEP DIMMER SUR MODE MULTI-CH INPUT DVD INPUT SELECTOR TAPE TUNER PHONO CD VIDEO-1 VIDEO-2 TUNER CD DVD PRESET DISC TAPE CH SEL TEST TONE LEVEL MUTING VOLUME REMOTE CONTROLLER RC-427S 1. Plug the power cord into an AC wall outlet. NOTE: When you use the TX-DS484 for the first time: When the TX-DS484 is shipped from the factory, the POWER switch is set to ON (). Therefore, when you plug in the power cord to the AC outlet, the Standby indicator lights up and the unit enters Standby mode as described in Step 2. 2. Press the POWER switch to set it to the ON() position to place the receiver in Standby mode.

The STANDBY indicator will light up. Press the POWER switch again to set it to the OFF () position to turn off the power to the receiver. 3. Press the STANDBY/ON button or POWER button on the remote controller to turn on the receiver. The display will light up and the STANDBY indicator will be turned off.

If you press the STANDBY/ON button or POWER button on the remote controller again, the receiver returns to Standby mode. · You cannot use the remote controller if the POWER switch on the receiver is set to OFF. 11 Making antenna connections Connecting the antenna cable to the 75/300 ohm antenna adapter (Worldwide models) Outdoor antenna 300 ohms ribbon wire Indoor antenna Connecting the 300 ohm ribbon wire: Loosen the screws and wrap the wire around these screws. Then tighten the screws with a screwdriver. Connecting the coaxial cable: 1.

With your fingernail or a small screwdriver, press the stoppers outward and remove the cover. 2. Remove the transformer wire A from slit B and insert it into slit C. 3. Prepare the coaxial cable as shown in the diagram. Connect the 75/300 ohm antenna adapter to the coaxial cable. 1 Insert the end of the cable. 2 Clamp it in place with pliers. 4. Re-install the cover.

1 2 Slit B 3 3 3 3 3 3 3 3 3 3 3 636 mm mm mm 15mm Wire A Slit C 1 2 Directional Linkage Do not use the same antenna for both FM and TV (or VCR) reception since the FM and TV (or VCR) signals can interfere with each other. If you must use a common FM/TV (or VCR) antenna, use a directional linkage type splitter. Directional linkage type splitter To TX-DS484 To TV (or VCR) Assembling the AM loop antenna Assemble the loop antenna as shown in the illustration. · Refer to the next page for details on connecting the AM loop antenna. Insert into the hole. Connecting the antenna cable 1 2 1. Press down the lever. 2. Insert the wire into the hole. 3.

Release the lever to replace it. 12 Making antenna connections U.S. and Canadian models Other models Connecting the included antennas Connecting the FM indoor antenna: The FM indoor antenna is for indoor use only. Extend the antenna and move it in various directions until the clearest signal is received. Fix it with push pins or similar implements in the position that will cause the least amount of distortion. If the reception is not very clear with the attached FM indoor antenna, the use of an outdoor antenna is recommended. ANTENNA AM Remove the insulation at the tip of the cable, and insert the cable securely, fully to the end of the exposed tip. FM 75 ANTENNA AM Connecting the AM loop antenna: The AM loop antenna is for indoor use only. Set it in the direction and position where you receive the clearest sound.

Put it as far away as possible from the unit, TVs, speaker cables, and power cords. When reception is not satisfactory with the attached AM loop antenna alone, connection of an outdoor antenna is recommended. FM 75 Connecting an FM outdoor antenna ANTENNA AM Please make sure that you follow the considerations below regarding the location. Keep the antenna away from noise sources (neon signs, busy roads, etc.). It is dangerous to put the antenna close to power lines. Keep it well away from power lines, transformers, etc. · To avoid the risk of lightning and electrical shock, grounding is FM 75 necessary. Follow item 14 of the "Important Safeguards" on page 2 when you install the outdoor antenna. Connecting an AM outdoor antenna ANTENNA Outdoor antenna The outdoor antenna will be more effective if it is stretched horizontally above a window or outside.

AM · Do not remove the AM loop antenna. · To avoid the risk of lightning and electrical shock, grounding is necessary. Follow item 14 of the "Important Safeguards" on page 2 when you install the outdoor antenna. FM 75 13 Speaker setup PARAMETER SELECTOR/ PARAMETER CONTROLLER buttons Use these buttons to set the speaker parameters, such as the type and distance. MASTER VOLUME STANDBY/ON PARAMETER SELECTOR UP DO WN STANDBY PARAMETER CONTROLLER POWER TUNING PRESET ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE CLEAR BASS TREBLE TI MUL CH INPUT DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD PHONES AV RECEIVER TX-DS4 84 ER W PO VD D ER O M R ON IM D TO H ET CP ES P LE R PR EE SE E SL T UN PU T IN PE ER TA N VD TU D -2 EO LEVEL / buttons Use these buttons to adjust the level of each speaker. PE TA TE O EM R ER LL O TR N O C -1 EO D VI C D VI IS D H C L SE ST E TEON T D RE SUOD M H -C TI T UL PU M IN C D M LU VO 1 2 PARAMETER CONTROLLER PARAMETER SELECTOR Speaker setup Before operating your stereo system, you need to set the type and position of the connected speakers. 1. Press the PARAMETER SELECTOR® button once to display the subwoofer parameter.

2. Press the PARAMETER CONTROLLER /® buttons to select "YES" if a subwoofer is connected, or select "NO" if a subwoofer is not connected. 3. Press the PARAMETER SELECTOR® button to display the front speaker size parameter, and press the PARAMETER CONTROLLER /® buttons to select "LARGE" or "SMALL" according to the speaker size. LARGE: Select this for large, wideband speakers.

SMALL: Select this for small speakers with limited bass signal handling. or PARAMETER SELECTOR 3 PARAMETER CONTROLLER · If you have selected "NO" for the subwoofer in step 2, you can or select only "LARGE" for the front speakers. PARAMETER SELECTOR 14 Speaker setup 4 PARAMETER CONTROLLER or PARAMETER SELECTOR or 5 PARAMETER CONTROLLER or PARAMETER SELECTOR or 6 ft PARAMETER CONTROLLER meter feet ft PARAMETER SELECTOR 7 ft PARAMETER CONTROLLER or ft PARAMETER SELECTOR 4. Press the PARAMETER SELECTOR® button to display the center speaker size parameter, and press the PARAMETER CONTROLLER /® buttons to select "LARGE", "SMALL" and "NONE".



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Note: If you have selected "SMALL" for the front speakers, you can select only "SMALL" or "NONE" for the center speaker.

LARGE: When a large speaker is used as the center speaker. **SMALL:** When a small speaker is used as the center speaker. **NONE:** A center speaker is not connected. 5. Press the PARAMETER SELECTOR button to display the surround speaker size parameter, and press the PARAMETER CONTROLLER button to select "LARGE", "SMALL" and "NONE." *Note: If you have selected "SMALL" for the front speaker, you can select only "SMALL" or "NONE" for the surround speakers.* **LARGE:** When large speakers are used as the surround speaker. **SMALL:** When small speakers are used as the surround speaker. **NONE:** Surround speakers are not connected. 6.

7. In general, leave this parameter to 0dB. Display the desired value. Also, refer to "LFE level attenuation" on page 22. 10. Press the PARAMETER SELECTOR button. The POWER ON VOLUME ON/OFF parameter appears. ON: Power On Volume function is enabled.

OFF: Power On Volume function is disabled. 1. Press the TEST TONE button. You can adjust the level in the range between 12dB and +12dB. 3.

Selecting a parameter and pressing the PARAMETER CONTROLLER button will change the value or setting for the selected parameter. START Subwoofer YES / NO PARAMETER SELECTOR PARAMETER SELECTOR FRONT Speaker Distance 0.3 ~ 9m, 1 ~ 30ft FRONT Speaker LARGE / SMALL Center Speaker Distance 0.3 ~ 9m, 1 ~ 30ft Center Speaker LARGE / SMALL / NONE Surround Speaker Distance 0.3 ~ 9m, 1 ~ 30ft LFE Level Attenuator Dolby Digital: 0dB / 10dB / dB DTS: +10dB / 0dB / dB POWER ON VOLUME ON / OFF QUIT Surround Speaker LARGE / SMALL / NONE 16 Selecting a sound source Follow the steps below to select a device to play the sound source.

2. Make sure that the SPEAKERS A indicator is lit on the display. If it is not lit, press the SPEAKERS A button. (Refer to the "Speakers selector" section on the page 19 for more details.) DIMMER button Use this button to change the brightness of the display (normal or dim). 4. Adjust the volume to an appropriate level. These controls allow you to adjust the volume of the Front, Center, Surround speakers and subwoofer simultaneously. Turning the control clockwise increases the volume level. Turning the control counter-clockwise decreases the volume level.

MASTER VOLUME STANDBY/ON PARAMETER SELECTOR UP DOWN STANDBY PARAMETER CONTROLLER POWER TUNING PRESET ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE CLEAR BASS TREBLE TI MUL CH INPUT DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD PHONES AV RECEIVER TX-DS4 84 1. Press the desired input selector button or MULTI CH INPUT button. The selected source name appears on the display. Refer to page 18 for more information on MULTI CH INPUT. 5. Use the bass, treble controls to adjust the tone. 3. Start playing the selected input source. (Refer to page 19 for more Follow the operating instructions for the details.) source device.

SLEEP button This button allows you to set the sleep timer. (Refer to page 19 for more details.) RE SUOD M H - C TI T UL PU M IN C D ER W PO VD D ER O M R ON IM D TO H ET CP ES P LE R PR EE SE E SL T UN PU T IN PE ER TA N VD TU D -2 EO D -1 EO D VI C VI IS D C D 4. VOLUME button (up/down) Use this button to adjust the volume level. PE TA H C L SE DIMMER button Use this button to change the brightness of the display (normal or dim).

MUTING button This button mutes the sound temporarily. (Refer to page 19 for more details.) *Note: If you hear no sound from the speakers, check the following items:* · Make sure that all devices and speakers are connected correctly and securely. · The sound is muted when the MUTING indicator flashes.

Press the MUTING button on the remote controller to cancel the mute function.

· When you select a source that is connected to the DIGITAL INPUT jacks on the rear panel, you must select digital input (refer to page 19). · If you have selected MULTI CH INPUT, you need to adjust the level of each speaker (refer to page 18). TE O EM R ER LL O TR N O C ST E TEON T L VE LE TI U M G N S 27 -4 C R E M LU VO 1. INPUT SELECTOR button Use this button to select a desired sound source. 17 Selecting a sound source 1 POWER SLEEP DIMMER SUR MODE MULTI-CH INPUT DVD INPUT SELECTOR TAPE TUNER PHONO CD VIDEO-1 VIDEO-2 TUNER CD DVD PRESET DISC When Multi channel input is selected as a source Follow the steps below to adjust the level of each speaker if you have selected MULTI CH INPUT. MULTI-CH INPUT TAPE CH SEL TEST TONE LEVEL MUTING VOLUME REMOTE CONTROLLER RC-427S 2 LEFT SUBWOOFER CENTER L-SUR RIGHT R-SUR POWER SLEEP DIMMER SUR MODE MULTI-CH INPUT CH SEL DVD INPUT SELECTOR TAPE TUNER PHONO CD VIDEO-1 VIDEO-2 TUNER CD DVD PRESET TEST TONE 1. Press MULTI CH INPUT button on the remote controller. You cannot select any Surround mode. 2.

Press the CH SEL button to select the desired speakers. 3. Use the LEVEL / button to change the volume level of the speakers. You can adjust the volume level of each speaker individually. Adjust the level while listening to the sound in the listening position. You can adjust the level of the front, center, and surround speakers in the range between 12dB and +12dB. You can adjust the subwoofer level in the range between 30dB and +12dB. *Note* · If the speaker level is set to +1dB or higher, the maximum level indicated on the display will change if you raise the volume level. DISC TAPE CH SEL TEST TONE LEVEL MUTING VOLUME LEVEL REMOTE CONTROLLER RC-427S 1 DO W N Using the Power On Volume function MASTER VOLUME This function automatically selects the volume level you set last time. Follow the steps below: 1.

Use the VOLUME control to set the desired level. 2. Press the PARAMETER SELECTOR or button repeatedly to display the "PWR ON VOL" parameter. The current setting (ON or OFF) appears. 3.

Press the PARAMETER CONTROLLER or button to select "ON." Even if the parameter has already been set to ON, turn it OFF, then turn it ON again to enable the Power On Volume function. The original display appears and the setting is completed. When you turn on the power to the unit next time, it will use the volume level you set in step 1. *Note: If the PWR ON VOL parameter is set to OFF, the Power On Volume function is disabled.*

In this case, when you turn on the power to the unit next time, it will use the volume level that was set when you turned off the power. UP 2 PARAMETER SELECTOR PARAMETER CONTROLLER PARAMETER SELECTOR 3 PARAMETER CONTROLLER 18 Selecting a sound source Switching between digital and analog inputs DVD Player TX-DS484 COAXIAL 2 COAXIAL 1 OPTICAL DIGITAL INPUT DVD 1 2 DVD Either a digital or analog device can be connected to the digital connector.



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Follow the steps below to select digital or analog according to the type of the connected device. You can assign digital input to DVD, CD, VIDEO1-2, and TAPE. With the default setting, all inputs are assigned analog. Change this assignment, depending on the connected device or sound source. For example, follow the steps below to assign COAX 1 to the digital input jack (COAX 1) that connects a DVD device. 1. Press the DVD Input Selector button. The DVD input is selected and "DVD" appears on the display.

2. Press and hold the DVD button for about 2.5 seconds. The current DVD setting (ANALOG, OPT, COAX 1, or COAX 2) appears. 3. Press the DVD button again repeatedly to select "COAX 1." Pressing the DVD button repeatedly will change the setting as follows: ANALOG OPT COAX1 COAX2 Hold down more than 2.5 seconds 3 DVD About five seconds after "COAX 1" is selected, the original display appears and the setting is completed. If you have selected digital input, you can also select the input signal format. Refer to "Setting the input signal format" on page 22.

Warning: · Do not play CD-ROM discs that contain computer data as they may damage the speakers when the sound is amplified by the receiver. **SPEAKERS (SPEAKERS A, B) SPEAKERS A:** This button turns on or off the speakers connected to the FRONT SPEAKERS A, CENTER SPEAKER, SURROUND SPEAKERS and SUBWOOFER terminals. When the speakers are turned on, the SPEAKERS A indicator lights up. **SPEAKERS B:** This button turns on or off the speakers connected to the FRONT SPEAKERS B terminals. When the speakers are turned on, the SPEAKERS B indicator lights up.

Note: You cannot use the A and B speakers simultaneously. You cannot select Surround sound when you are using SPEAKERS B. If you select SPEAKERS B while Surround sound is selected, Surround mode will be automatically canceled. Be sure to use SPEAKERS A to listen to the sound through MULTI CH INPUT or in any surround mode other than Stereo mode. Sleep function (Remote controller only) The sleep timer can turn off the power to the system after a specified time period.

To set up this function, use the remote controller supplied with this receiver. 1. Start playing the source you would like to listen to (CD, tape, or radio broadcast). 2. Press the SLEEP button repeatedly to set the duration of time after which you want the system to turn off. The longest timer value you can set is 90 minutes. Pressing the SLEEP button each time reduces the time value in 10-minute increments. When the specified time comes, the power will be switched off automatically. Disabling the Sleep function Press the SLEEP button until it returns to the selected input source name. or The timer setting will be cancelled if you turn off the power to the unit.

Adjusting the tone (BASS, TREBLE) Treble and bass adjustment is effective only for the Front speakers and headphones. **BASS:** Boosts or cuts the bass response. **TREBLE:** Boosts or cuts the treble response. **Temporary muting (MUTING)** (Remote controller only) Press the MUTING button on the remote controller. The MUTING indicator will flash and the sound from the speakers or headphones will be switched off by the receiver's audio muting circuits. To cancel, · press the MUTING button again, or · turn the power off, then turn it on again. **Listening through headphones (PHONES)** You can connect stereo headphones to the PHONES jack using a standard stereo plug. If you connect headphones, the unit will enter STEREO mode automatically, and no sound will be produced from the speakers. If you have selected MULTI CH INPUT, you will hear sound only from the FRONT L and R channels. 19 To enjoy Surround mode or Stereo mode 2.

SURROUND MODE button This button allows you to select a Surround mode. **LATE NIGHT button** Use this button to play sound in Dolby Digital mode (refer to page 22). **VOLUME knob** Use this knob to adjust the volume level. **MASTER VOLUME STANDBY/ON PARAMETER SELECTOR UP DOWN STANDBY PARAMETER CONTROLLER POWER TUNING PRESET ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE CLEAR BASS TREBLE TI MUL CH INPUT DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD PHONES AV RECEIVER TX-DS4 84 1. Input selector buttons** Select the desired input source.

ER W PO VD D -1 EO D VI C ER O M R ON IM D TO H CP P LE R EE SE E SL T UN PU T IN PE ER TA N TU -2 EO D VI 2. SUR MODE button This button allows you to select a Surround mode. **C IS D D RE SUOD M H -C TI T UL PU M IN VOLUME button** (up/down) Use this button to adjust the volume level. **VD D PE TA H C L SE C ET ES PR D** This receiver has six Surround modes. Select a suitable mode according to the type of music you are listening to, the media used, and your personal preference.

The selected surround mode is automatically stored along with the selected source. Next time you select the same source again, the stored surround mode will be automatically recalled. **TE O EM R ER LL O TR N O C ST E TEON T L VE LE TI U M G N S 27 -4 C R E M LU VO 1. INPUT SELECTOR buttons** Select the desired input source. **Before Using Surround Mode Surround Modes** The TX-DS484's surround sound enables you to enjoy the presence of a movie theater or concert hall in your room. Before using a Surround mode, make sure the Speaker Setup parameters have been set (refer to page 14). Once the parameters have been set, it is not necessary to set them again. The configuration of the speakers are very important for the surround sound. Refer to "connecting speakers" on page 10. **DOLBY DIGITAL Surround, DTS (Digital Theater System) Surround** This 5.

1-channel digital surround format enables you to individually record and play five full-range (20Hz-20kHz) channels (left and right front, center, two surround channels) plus an LFE channel (Low Frequency Effect) for the low-range effect sound. It will create a realistic sound that could be heard in the theaters and concert halls. **DOLBY DIGITAL:** Select this option when you play a DVD video that has a mark. **DTS:** Select this option when you play a DVD player, laser disc, or CD that has a mark. **DIGITAL 20** To enjoy Surround mode or Stereo mode **DOLBY PRO LOGIC** This surround format consists of four channels (left and right front, center, and monaural surround channels) and emphasizes the center channel. This format is very effective for panning music, conversation, and three-dimensional sound movement output from three front channels. It also simulates the atmosphere and surround effects of the sound reflected from the side and rear walls of the theater. Select this option when you play a VHS, VHS Hi-Fi, laser disc, or DVD video that has a mark. **DOLBY SURROUND PRO LOGIC** Notes on DTS 1. If you play a CD or LD that supports DTS when the "ANALOG" setting is selected on the TX-DS484, the DTS encoded signal will not be decoded and noise will be output.



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This noise could damage the amplifier and speakers. Therefore, be sure to select "DIGITAL" and use the digital input jacks (OPTICAL/ COAXIAL) to connect the DTS source. (Refer to "Switching between digital and analog inputs" on page 19.) 2. If you play a CD or LD that supports DTS when the "DIGITAL" setting is selected, you may hear a noise for a short while until the DTS decoder recognizes the DTS encoded signal and starts operating. This is not a malfunction. 3. If you press the PAUSE or SKIP button on the player while playing a DTS source, a short noise may be heard. This is not a malfunction. 4.

The DTS indicator on the TX-DS484 lights up while it plays the DTS source. When playback concludes and the DTS signal transmission stops, the TX-DS484 remains in DTS mode and the DTS indicator remains lit. This prevents noise when you operate the PAUSE or SKIP button on the player. Therefore, if the source switches from the DTS signal to the PCM signal immediately, the PCM signal may not be played. In this case, stop the playback of the source on the player for about three seconds, then resume playback. 5. Some CD players and LD players may be unable to play DTS sources correctly even if you connect the player to the TX-DS484 digitally. This is because the digital signal has been processed (such as the output level, sampling frequency, frequency response, etc.), and the TX-DS484 cannot recognize the signal as DTS data. Therefore, you may hear noise when you play a DTS source while processing the signal.

6. The Rec Out jacks of the TX-DS484 output analog audio. Do not record CDs or LDs that support DTS using these jacks. Otherwise, you will record a DTS encoded signal as noise. Onkyo's Surround modes The TX-DS484 offers the following special Onkyo Surround modes for the sources other than Dolby Digital and DTS sounds. ORCHESTRA: This mode is suitable for classics and opera music. The center channel is cut and the surround channels are emphasized to widen the stereo image. It will simulate a natural reverberation that can be created in a large hall. UNPLUGGED: This mode is suitable for acoustic instrumental sounds, vocals, and jazz music. By emphasizing the front stereo image, it will simulate the acoustics in front of the stage.

5CH STEREO: This mode is useful for background music. The front and surround channels will create a stereo image. STEREO Select this mode when you do not wish to use the surround mode. All input sound is output from the front speakers. · A system with L/R front and center speakers The following modes are available: DOLBY 3STEREO The surround channel sound is output from the left and right front speakers.

STEREO This is a normal stereo mode. Surround mode is cancelled. · A system with L/R front speakers The following mode is available: STEREO This is a normal stereo mode. Selecting a Surround mode SURROUND MODE Dolby Pro Logic Orchestra Stereo 5ch Stereo Unplugged Playing the DOLBY DIGITAL source Dolby Digital Dolby Digital (stereo) Playing the DTS source DTS DTS (stereo) 1. Press an Input Selector button to select the desired sound source.

2. Press the SURROUND MODE button repeatedly until the desired Surround mode name appears. The display changes in the order shown on left each time you press the button. · If you are using the remote controller, press the SUR MODE button to select the desired Surround mode. · If DOLBY PRO LOGIC is selected during playback of a DOLBY DIGITAL or DTS source, the Surround mode automatically changes to DOLBY DIGITAL or DTS and the DOLBY DIGITAL indicator or DTS indicator lights up on the display. · If you have set the surround speaker parameter for the speaker setup (see page 14) to "NONE," STEREO or 3 STEREO will be selected for Surround mode 3. Play the selected sound source. You can adjust the level of each speaker if necessary.

1. Use the CH SEL button on the remote controller to select the target speaker.

2. Use the LEVEL or button to adjust the level. When you place the receiver in Standby mode, this level will be reset to the value set for the test tone. Also, if you press the TEST TONE button after adjusting the speaker level, it will use the level value set for the test tone. 21 To enjoy Surround mode or Stereo mode

Setting the Surround mode parameters LATE NIGHT If you play a movie at a low volume at night, set this parameter to "ON" to narrow the dynamic range of the sound to make it easier to hear. The Late Night function works only with source material that contains necessary Dolby Digital information. Press the LATE NIGHT button. The LATE NIGHT indicator appears on the display. To cancel the LATE NIGHT function, press the LATE NIGHT button again. · The Late Night function is available only in Dolby Digital SurLATE NIGHT MASTER VOLUME · The degree of the Late Night effect is already programmed into the source materials.

Some materials may produce only small or no effects. W N round mode. STANDBY/ON PARAMETER SELECTOR U P DO STANDBY POWER PARAMETER CONTROLLER PRESET TUNING ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE CLEAR BASS TREBLE PHONES MUL CH INPUT TI DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD AV RECEIVER TX-DS484 LFE (Low Frequency Effect) Level

Attenuation This control function enables you to adjust the level of LFE in the Dolby Digital/DTS Surround sound. How to set this parameter is explained in the "Speaker setup" section on page 14. Notes: · The LFE Level Control function is effective only on the Dolby Digital/DTS Surround sound.

· The degree of the low frequency effect is already programmed into the source materials. Some materials may produce only small or no effects. Dolby Digital sound: "0dB" is recommended. If the low range sounds too loud for your taste, select 10dB or dB. DTS sound: "+10dB" is recommended for cinema sound sources.

If the low range sounds too loud for your taste, select 0dB or dB. "0dB" is recommended for music sound source. If the low range sounds too loud for your taste, select dB. Setting the input signal format If the input source is DVD, CD, VIDEO 1, VIDEO 2, or TAPE, you can specify the input signal format. The default setting is "AUTO." However, you can change this according to the signal format of the input source. For example, follow the steps below to specify the input signal format for the DVD input: 1. Press the DVD button. DVD is selected as the input source and "DVD" appears on the display. 2.

Select the desired input signal format using the DVD button. Pressing the DVD button repeatedly will change the format option as follows: AUTO DIGITAL ANALOG AUTO (Auto Detect mode) In this mode, the unit automatically detects the input signal format (Dolby Digital, DTS, or PCM) and performs necessary decoding process.



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If the digital signal is not being input, the unit will play the signal input from the analog input jacks. DIGITAL (Digital Input Auto Detect mode) In this mode, the unit automatically detects the input signal format (Dolby Digital, DTS, or PCM) and performs necessary decoding process. ANALOG (Analog Audio Signal Process mode) The unit plays the audio signal that is input from the device connected to the analog input jacks. Press the DVD button repeatedly to display the desired format. After five seconds, the original display appears and the setting is completed. Note: You need to assign digital input to DVD to specify the input signal format. (Refer to "Switching between digital and analog inputs" on page 19 for more information.)

TUNING \odot MASTER VOLUME W N STANDBY/ON PARAMETER SELECTOR U P STANDBY POWER PARAMETER CONTROLLER PRESET TUNING ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE CLEAR DO BASS TREBLE PHONES MULTI CH INPUT DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD AV RECEIVER TX-DS484 FM AM FM MODE 1 FM AM Manual tuning 1.

Press the FM or AM button. 2. Use the TUNING \odot buttons to change the frequency. \odot (up)..

.....

..... the frequency increases. (down) ..

..... the frequency decreases. The frequency changes in 50 kHz steps in FM and 10 kHz (or 5 kHz in AM, if this button is held continuously for more than 0.5 seconds, the frequencies are scanned automatically (FM auto tuning mode). When a broadcast is received, scanning stops. 2 TUNING Receiving RDS (European model only) When an RDS (Radio Data System) station broadcasting PS (Program Service Name) information is received, the RDS indicator lights up and the name of the station is displayed. RDS reception is only available on the European model, and only in areas where RDS broadcasts are available. Listening to a stereo radio station (FM mode) MEMORY FM MODE CLEAR When you tune in a stereo FM station, the FM STEREO indicator lights up if the signal is sufficiently strong.

If the signal is weak, it may be impossible to tune in to the desired station. In this case, tune in as follows. Press the FM MODE button. The FM MUTE indicator turns off. At this time, the station will be in mono and interstation noise will be heard.

Select the station to which you want to listen. 23 Using preset radio stations AM FM STANDBY/ON TUNING \odot POWER SLEEP DIMMER SUR MODE MULTI-CH INPUT DVD MASTER VOLUME INPUT SELECTOR TAPE TUNER PHONO CD W N PARAMETER SELECTOR VIDEO-1 VIDEO-2 U P PRESET TUNER CD STANDBY DVD TUNER PRESET \odot DO POWER PARAMETER CONTROLLER PRESET TUNING DISC ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE TAPE CLEAR CH SEL BASS TREBLE TEST TONE PHONES MULTI CH INPUT DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD LEVEL AV RECEIVER MUTING VOLUME TX-DS484 REMOTE CONTROLLER RC-427S PRESET \odot MEMORY FM MODE 2 MEMORY FM MODE CLEAR Programming radio stations 1. Select the frequency that you want to store in the memory. (See Tuning in a radio station on page 23.) 2. Press the MEMORY button. The MEMORY indicator will light up for eight seconds. 3. Select the desired memory number using PRESET \odot button. 4.

Press the MEMORY button. 3 PRESET Total of 30 stations can be stored in the memory. 4 MEMORY FM MODE CLEAR 1 Selecting a preset station FM AM Remote controller TUNER Remote controller 2 1. Select the tuner as the source by pressing the AM or FM input selector button on the main unit. 2. Enter the desired preset number using the PRESET and \odot buttons. Remote controller operation 1. Select the tuner as the source by pressing the TUNER input selector button on the remote controller. 2. Press the PRESET (or \odot) button.

PRESET PRESET Cancelling preset stations MEMORY FM MODE CLEAR 1. Select the preset station you wish to remove as explained in the previous section. 2. Press the FM MODE button while holding down the MEMORY button. " " appears on the channel display.

Once the preset station has been cancelled, the memory location can be used to store another station. 24 Recording a source You can record analog Audio, but not digital audio. Make sure that you have made a correct analog connection. You cannot record the source connected to MULTI CH INPUT jack.

If you select another device as the input source during recording, the input signal from that device will be recorded.

You cannot record audio source along with the surround effects. 1 STANDBY/ON STANDBY 2 MASTER VOLUME Recording an audio source Make all connections between the tape deck and the receiver as shown in the "Audio equipment connections" diagram (page 6). 1. Insert a blank tape into the tape deck. 2. Press the input selector button for the source you want to record. If you select DVD, VIDEO 1 or VIDEO 2, only the audio will be recorded. If you select FM or AM, set the tuner to the station you want to record. 3. Set the tape deck in recording mode.

Start playing the source. Set the proper recording level using the controls on the tape deck. W N PARAMETER SELECTOR U P POWER PARAMETER CONTROLLER PRESET TUNING ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE CLEAR DO BASS TREBLE PHONES MUL CH INPUT TI DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD AV RECEIVER TX-DS484 1-3 Turntable Tape deck (TAPE) CD player VCR, VDP DVD 3 Please read the corresponding instruction manuals for more information on how to operate the corresponding equipment. 2 DVD VIDEO 1 VIDEO 2 FM AM PHONO CD 25 Recording a source 1 MASTER VOLUME W N Recording data from a video disc player (or a video camcorder) to VCR STANDBY/ON PARAMETER SELECTOR U P DO STANDBY POWER PARAMETER CONTROLLER PRESET TUNING Video disc programs can be recorded onto a VCR (VIDEO 2). BASS TREBLE CD ON OFF A SPEAKERS B SURROUND MODE LATE NIGHT DIMMER MEMORY FM MODE CLEAR PHONES MUL CH INPUT TI DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO AV RECEIVER TX-DS484 2 1-3 1-3 1. Load a disc in the video disc player or DVD player, and insert a blank tape in the VCR (VIDEO 2). 2. Press the VIDEO 1 or DVD button. 3. Start playing the video disc player and recording on the VCR.

Refer to the Video equipment connections section on the page 7. VCR (VIDEO 2) VDP, DVD player (VIDEO 1) DVD 2 VIDEO 1 or 1 STANDBY/ON STANDBY 3 4 MASTER VOLUME Adding new sound to a video tape during video editing W N PARAMETER SELECTOR POWER PARAMETER CONTROLLER PRESET TUNING During video tape editing, you can add sound to the recording VCR from various audio program sources.



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