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You can read the recommendations in the user guide, the technical guide or the installation guide for ONKYO TX-DS494. You'll find the answers to all your questions on the ONKYO TX-DS494 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-DS494
User guide ONKYO TX-DS494
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Instruction manual ONKYO TX-DS494

ONKYO

AV Receiver

TX-DS494

Instruction Manual

Thank you for purchasing the Onkyo AV Receiver.
Please read this manual thoroughly before making connections and plugging in the unit.
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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... back cover page **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. WARNING RISK OF ELECTRIC SHOCK DO NOT OPEN AVIS RISQUE DE CHOC ELECTRIQUE NE PAS OUVRIR CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).**

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 S3125A 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.



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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.

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, ANS/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 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 NEC NATIONAL ELECTRICAL CODE S2898A POWER SERVICE GROUNDING ELECTRODE SYSTEM (NEC ART 250, PART H) For U.S. models Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC, ANS/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 models Replacems antenna input FM indoor antenna supplied AM loop antenna supplied Precision digital speed-sensitive volume control Absolute volume display Separate PC (printed circuit) boards for audio and video sources Large bright fluorescent display 2-Mode display dimmer (normal, dim) Individual input selectors for each source Headphone jack (standard size) Audio mute (remote controller) Sleep timer (remote controller) Battery-free memory backup 2 Switched AC convenience outlets with a total 120 watts max.

(100 watts max. for European/Asian models) Heavy-duty power cord Large non-resonant feet Heavy-gauge, anti-resonant, reinforced-steel chassis Vibration-resistant cover Brushed aluminum front panel Powerful preprogrammed remote (North American models) Remote controller × 1 (RC-443S for models other than North American models, RC-444M for North American models) Batteries (AA, R6 or UM-3) × 2 The following accessories may be available depending on the area which it was purchased. 75/300 antenna adapter × 1 Conversion plug × 1 (Use this plug if the power cord plug of the TX-DS494 does not fit your AC outlet. Shape may vary depending on the area which it was purchased.) FM/AM Tuner Features 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 GERMERING, GERMANY A.

HORIUCHI Other Performance Features ONKYO EUROPE ELECTRONICS GmbH * 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. **Manufactured under license from Digital Theater Systems, Inc.



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US Pat. No.5,451,942 and other worldwide patents issues and pending. "DTS" and "DTS Digital Surround" are trademarks of Digital Theater Systems, Inc.

©1996 Digital Theater Systems, Inc. All rights reserved. 4 Before using this unit 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 AM FREQUENCY STEP 10 k Hz 9 k Hz 3. After batteries are installed and seated correctly, replace the compartment cover. ANTENNA SUB WOOFER PRE OUT MONITOR OUT DVD VIDEO 1 VIDEO 2 S VIDEO R L R OUT AM L IN IN IN TAPE IN FM 75 DIGITAL INPUT MONITOR OUT OPTICAL R L CAUTION: SPEAKER IMPEDANCE CENTER SPEAKER REMOTE CONTROL SURROUND SPEAKERS COAXIAL 1 2 A 6 OHMS MIN.

PER EACH SPEAKER TERMINAL AC OUTLETS SWITCHED TOTAL 100W MAX. DVD IN FRONT AV RECEIVER GND VIDEO 1 IN R SURR L L B MODEL NO. TX-DS494 RATING: AC 120 / 220 -230 V 50 / 60 Hz 260 W AM FREQUENCY STEP 10 k Hz 9 k Hz PHONO CD VIDEO 2 OUT R VOLTAGE

SELECTOR 220-230 V 120 V L R IN SUB WOOFER CENTER R L VIDEO MULTI CHANNEL INPUT R L FRONT SPEAKERS Notes: · Do not mix new batteries with old batteries or different kinds of batteries. · To avoid corrosion, remove the batteries if the remote controller is not to be used for a long time. · Remove dead batteries immediately to avoid damage from corrosion.

If the remote controller does not operate smoothly, replace both batteries at the same time. · The life of the batteries supplied is about six months but this will vary depending on usage. 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. Determine the proper voltage for your area: 220-230 V or 120 V.

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. ANTENNA SUB WOOFER PRE OUT MONITOR OUT DVD VIDEO 1 VIDEO 2 S VIDEO IN IN IN 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. Remote control sensor TX-DS494 R L R OUT AM L DIGITAL INPUT MONITOR OUT OPTICAL STANDBY indicator SURROUND

SPEAKERS AC OUTLETS SWITCHED TOTAL 100W MAX. TAPE IN FM 75 R L CAUTION: SPEAKER IMPEDANCE CENTER SPEAKER REMOTE CONTROL COAXIAL 1 2 A 6 OHMS MIN. PER EACH SPEAKER TERMINAL DVD IN FRONT AV RECEIVER GND VIDEO 1 IN R SURR L L B MODEL

NO. TX-DS494 RATING: AC 120 / 220 -230 V 50 / 60 Hz 260 W AM FREQUENCY STEP 10 k Hz 9 k Hz PHONO CD VIDEO 2 OUT R VOLTAGE SELECTOR 220-230 V 120 V L R IN SUB WOOFER CENTER R L VIDEO MULTI CHANNEL INPUT R L FRONT SPEAKERS 30° 30° VOLTAGE SELECTOR 220-230 V 120 V Approx. 5 meters (16 feet) Installing batteries into the remote controller 1. Remove the battery compartment cover by pressing and sliding the cover.

2. Insert two AA (R6 or UM-3) batteries into the battery compartment. Carefully follow the polarity diagram (positive (+) and negative (-) symbols) inside the battery compartment. 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 objects on the remote controller. Its buttons 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.

5 Front panel facilities Here is an explanation of the controls and displays on the front panel of the TX-DS494. 12 STANDBY/ON 34 DISPLAY 5 LISTENING MODE 6 STEREO / DTS SURROUND DSP 7 MASTER VOLUME 8 STANDBY POWER ON OFF DIMMER SP SEL SW MODE DIGITAL INPUT FM MODE

CLEAR MEMORY TUNING PRESET A SPEAKERS B AUDIO SELECTOR DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD PHONES VCR BASS TREBLE AV RECEIVER TX-DS494 9 0 ~ - = SP SEL SW MODE DIGITAL INPUT FM MODE CLEAR MEMORY TUNING PRESET ! @ # \$ % ^ & * A B C D E F G H I RDS J 6 Front panel facilities 1 POWER switch 5 DISPLAY button Turns on the main power supply for the TX-DS494. The TX-DS494 enters standby state and the STANDBY indicator lights up. Pressing the switch again to the off position (-- OFF) shuts down the main power supply into the TX-DS494. · Before turning on the power, make sure all cables are properly connected.

· Turning on the TX-DS494 may cause a momentary power surge that might interfere with other electrical equipment on the same circuit. If this is a problem, plug the TX-DS494 into a different electrical circuit. Each time you press the DISPLAY button, the screen changes as follows: When an input source other than FM or AM is selected: Press the DISPLAY button once to initiate the program format display. Pressing the button again switches the display to the other display. Input source + volume 2 3 STANDBY indicator Program format* Lights when the TX-DS494 is in the standby state and flashes when a signal is received from the remote controller.

STANDBY/ON button Input source + Listening mode When STANDBY/ON button is pressed to ON while the POWER switch is set to ON, the display will light to show the current volume setting for about 5 seconds then show the current sound input source and listening mode. Pressing the button again returns the TX-DS494 to the standby state. This state turns off the display, disables control functions. * If the input signal does not have a program format, then this will be skipped. The format display returns to the previous display after the format display has lasted for about 5 seconds (). When FM or AM is selected as the input source: FM/AM frequency + Preset no. FM/AM + Listening mode ch 4 SPEAKERS A/B buttons Press to switch the speaker systems in use between A and B. SPEAKERS A: Select for the speakers connected to the FRONT SPEAKERS A, CENTER SPEAKER, SURROUND SPEAKERS and SUB WOOFER PRE OUT terminals.



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When the speakers are turned on, the SPEAKERS A indicator lights up. SPEAKERS B: Select for the speakers connected to the FRONT SPEAKERS B terminals.

When the speakers are turned on, the SPEAKERS B indicator lights up. Notes: · Be sure to use SPEAKERS A to listen to the sound through MULTI CHANNEL INPUT port or in any listening mode other than STEREO. · You cannot select surround mode when you are using SPEAKERS B. If you select SPEAKERS B while surround mode is selected, surround mode will be automatically canceled. · You cannot use the A and B speakers simultaneously. When an RDS station broadcasting PS information is settled as the input source (European models only): Press the DISPLAY button once to initiate the frequency display. Pressing the button again switches the display to the other display. Program Service Name + Preset no. FM frequency + Preset no.* FM + Listening mode ch ch *The frequency display returns to the previous display after the frequency display has lasted for about 5 seconds ().

6 LISTENING MODE buttons Press these buttons to select a listening mode for the current input source. STEREO: Select for normal stereo output. j/DTS SURROUND: Select for the DOLBY PRO LOGIC II, DOLBY DIGITAL, or DTS surround modes. DSP: Select for the ORCHESTRA, UNPLUGGED, or ALL CH ST surround modes. During Dolby Digital playback, this button is used to switch the Late Night function between ON and OFF.

7 Front panel facilities 7 DIMMER button % ^ MEMORY button Press to set the brightness of the front display. The brightness changes to normal and dim. · The dimmer control for the front display can also be performed by using the remote controller. This button is used to assign the radio station that is currently tuned in to a preset channel or delete a previously preset station. TUNING TM/£ buttons 8 MASTER VOLUME dial The MASTER VOLUME dial is used to control the volume level.

Turn the dial clockwise to increase the volume level and counterclockwise to decrease it. 9 PHONES jack Use these buttons to change the tuner frequency. The tuner frequency is displayed in the front display and it can be changed in 50 kHz increments for FM and 10 kHz (or 9 kHz) increments for AM. When FM is selected, you can hold down one of the TUNING TM/£ buttons and then release it to activate the auto-search feature. It will search for a station in the direction of the button you pressed and stop when it tunes into one. This is a standard stereo jack for connecting stereo headphones. The audio for the front right and left speakers are sent to the headphone speakers. When the headphones are plugged in, the listening mode automatically changes to STEREO and sounds are not output from the speakers. & * PRESET TM/£ buttons These buttons make it possible to store desired radio stations under the desired preset numbers and recall them with an easy operation. 0 Display AUDIO SELECTOR button Press to select an audio input signal format other than FM, AM and PHONO.

Each time this button is pressed, the setting cycles; "AUTO" ; "MULTI CH" ; "ANALOG" ; "AUTO" (back to the beginning) (refer to page 23). ASPEAKERS A/B indicators Shows the current speaker system in use. BSLEEP indicator Lights up when the sleep timer is active. - Input Selector Buttons (DVD, VIDEO 1, VIDEO 2, TAPE, FM, AM, PHONO, and CD) CSource/Listening mode indicators One of these indicators lights to show the format of the current source as "PCM DIGITAL", "Y DIGITAL" or "DTS". In addition, one of the listening mode indicators "Y PRO LOGIC II", "DSP" and "STEREO" lights according to the current listening mode. These buttons are used to select the input source. Pressing and holding the TAPE button for about 2 seconds allows the TAPE and MD sources to be switched. = BASS and TREBLE control knobs Boosts or cuts the bass and treble response. BASS: Adjusts the bass response from the Front speakers and headphones. Turn the knob clockwise to boost the bass response.

Turn the knob counterclockwise to cut the bass response. TREBLE: Adjusts the treble response from the Front speakers and headphones. Turn the knob clockwise to boost the treble response. Turn the knob counterclockwise to cut the treble response. DMUTING indicator Flashes when the mute function is active.

EFM STEREO indicator Lights up when an FM stereo broadcast station is received. FTUNED indicator Lights up when a radio station is received. ~ ! @ # Remote control sensor GMEMORY indicator Lights up when the MEMORY button is pressed in the radio station preset operation. This sensor receives the control signals from the remote controller. SP SEL button HFM MUTE indicator Lights up to indicate FM muting.

It extinguishes when the monaural reception mode is started by pressing the FM MODE button. Press to select the optimum speaker configuration. SW MODE button Press to select the subwoofer mode. IRDS indicator (European models only) Lights up when a RDS station is received. DIGITAL INPUT button When digital components are connected to the DIGITAL INPUT jacks of the TX-DS494, use this button to assign the DIGITAL INPUT jacks to them according to their forms of connection. JMulti function display In usual operation, shows the current input source and volume. When the FM or AM input is selected, it shows the frequency and preset number. When the DISPLAY button is pressed, it shows the listening mode and input source format. However, it does not show the source format when the FM or AM source is selected. \$ 8 FM MODE button Press to switch the reception mode between stereo and monaural.

If audio is interrupted or noise interferes with audio during FM stereo broadcasting, press this button to switch to the monaural reception mode. Remote controller RC-443S (For models other than North American models) For detailed descriptions on the buttons, see "Front panel facilities" on pages 6 through 8. 1 1 2 3 4 5 RE MOTE CONTROLLER RC-443S SLEEP button STANDBY/ ON SLEEP DIMMER DISPLAY INPUT SELECTOR 8 9 0 = ~ ! For setting the sleep time. This button is provided only on the remote controller (refer to page 23). CD TAPE PHONO TUNER 2 3 4 5 6 STANDBY/ON button DVD VIDEO 1 VIDEO 2 Turns on the TX-DS494 or put it in standby. TUNER SUR MODE SW MODE AUDIO SEL PRESE T INPUT SELECTOR buttons For selecting the input source. MODE STANDBY/ ON DVD CD TAPE SUR MODE button Press to select the surround mode. 6 DISC MUTING SW MODE button Press to select the subwoofer mode. TOP MENU ENTER MENU VOLUME RETURN SETUP DVD/CD/TAPE operation buttons 7 TEST TONE CH SEL LEVEL For operating z-connected Onkyo components connected to the TX-DS494.



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When your remote controller is RC-444M, you can operate TV, VCR, satellite tuner and cable TV tuner from other brand than Onkyo by storing the pre-programming code.

For detailed descriptions on the buttons, see "Using remote controller" on page 30 and "Pre-programming remote controller (North American models only)" on page 32. RC-444M (For North American models) 7 8 9 0 = ~ ! TEST TONE/CH SEL/LEVEL 5/ buttons For setting the output levels for each speaker. These buttons are provided only on the remote controller (refer to page 21). 1 2 3 4 5 RE MOTE CONTROLLER RC-444M 8 9 0 = ~ ! DIMMER button STANDBY/ ON SLEEP DIMMER DISPLAY For adjusting the brightness of the front display. INPUT SELECTOR CD TAPE PHONO TUNER DISPLAY button DVD VIDEO 1 VIDEO 2 TUNER SUR MODE SW MODE AUDIO SEL PRESE T MODE For changing the display.

TV CABLE SATELLITE VCR TUNER PRESET 5/ button STANDBY/ ON DVD CD TAPE For selecting a tuner preset channel. CH T V VOL CH AUDIO SEL button 6 DISC MUTING Press to select an audio input signal format other than FM, AM and PHONO. TV/ VCR T V VOL MODE buttons TOP MENU ENTER MENU VOLUME RETURN SETUP For selecting the component to be operated by the remote controller. 7 TEST TONE CH SEL LEVEL MUTING button Activates the mute function. This button is provided only on the remote controller (refer to page 23).

VOLUME 5/ button For adjusting the volume. 9 Rear panel facilities Here is an explanation of the terminals found on the rear of the TX-DS494 and how they are used. Before connecting your audio and video components, be sure to read this section carefully and then proceed to the explanations on how to connect each individual component (refer to page 12). · Be sure to always refer to the instructions that came with the component that you are connecting. · Do not plug in the power cord until all connections have been made. · For input jacks, red connectors (marked R) are used for the right channel, white connectors (marked L) are used for the left channel, and yellow connectors (marked VIDEO) are used for video connections. · Insert all plugs and connectors securely. Improper connections can result in noise, poor performance, or damage to the equipment. Improper connection Inserted completely · Do not bind audio/video connection cables with power cords and speaker cables. Doing so may adversely effect the picture and sound quality.

12 ANTENNA 34 SUB WOOFER PRE OUT MONITOR OUT 5 DVD VIDEO 1 VIDEO 2 S VIDEO IN IN IN 6 R L R OUT AM L DIGITAL INPUT MONITOR OUT OPTICAL TAPE IN FM 75 R L CENTER SPEAKER REMOTE CONTROL SURROUND SPEAKERS COAXIAL 1 2 A DVD IN AC OUTLETS AC 120V 60Hz SWITCHED TOTAL 120 W IA MAX. FRONT GND VIDEO 1 IN R SURR L L B AV RECEIVER MODEL NO. TX-DS 494 PHONO CD VIDEO 2 OUT R L R IN SUB WOOFER CENTER R L VIDEO MULTI CHANNEL INPUT R L FRONT SPEAKERS 7 58 1 2 ANTENNA 9 5 p VIDEO IN/OUT q These terminals are for connecting the FM antenna and AM antenna (refer to page 18). GND Use this GND terminal for connecting the ground (or earth) wire if a turntable is connected. Refer to "Connecting a turntable" on page 13. There are 3 video inputs (each one includes both RCA type and S video configurations) and 1 RCA type video output. Connect DVD players, LD players, VCRs or other video components to the video inputs. The video output channel can be used to be connected to video tape recorder for making recordings. RCA type jack 3 4 SUB WOOFER PRE OUT S Video jack This terminal is for connecting an active subwoofer. MONITOR OUT 6 SPEAKERS The monitor output includes both RCA type and S video configurations.

This output is for connecting television monitors or projectors. Speaker terminals are provided for the front left, front right, center, surround left and surround right speakers. Speaker outputs are compatible with banana plug connectors (other than European models). 10 Rear panel facilities 7 AUDIO IN/OUT p z (REMOTE CONTROL) These are the analog audio inputs and outputs. There are 6 audio inputs (3 of which are linked to video inputs) and 2 audio outputs (1 of which are linked to a video output).

The audio jacks are nominally labeled for turntables, compact disc players, cassette tape decks, and DVD players. To the audio jacks for VIDEO 1 and 2 connect the audio output from LD players, VCRs or other video components. The audio inputs and outputs require RCA type connectors. RCA type Connect the Onkyo components that have z connectors such as a CD player, and cassette tape deck using the z cables provided with them. When these components are interconnected, they can be controlled from the remote controller provided with the TX-DS494.

After connecting the z connectors, check the operation of the remote controller buttons for use in controlling other components (refer to page 30). REMOTE CONTROL TX-DS494 z connector · When connecting a VCR or other video component, make sure you connect the audio and video leads together (i.e., both to VIDEO 1). · The PHONO jacks are designed for use with turntables that use moving magnet cartridges. Ex: Onkyo DVD Player z connector Ex: Onkyo CD player 8 DIGITAL INPUT (OPTICAL/COAXIAL) Ex: Onkyo cassette tape deck These are the digital audio inputs. There are 2 digital inputs with coaxial jacks and 1 with optical jacks. The inputs accept digital audio signals from a compact disc, LD, DVD, or other digital source component. Optical fiber cable OPTICAL COAXIAL Coaxial cable (RCA type) · For remote control operation, the audio connection cables must also be connected. · The RC-443S or RC-444M remote controller does not support turntables.

· If the connected component has two z connectors, you can use either one to connect to the TX-DS494. The other one can be used to daisy chain with another component. · When using the optical input jack, remove the protective cap and keep it safely. When the jack is not used, replace the protective cap. q AC OUTLETS · When using an optical input jack, always use an optical fiber cable. · When using the digital inputs, make sure to also connect the analog connections whenever possible. The TX-DS494 is supplied with AC mains outlets for connecting the power cords from other devices so that their power is supplied through the TX-DS494. By doing this, you can use the STANDBY/ON button on the TX-DS494 to turn on and off the connected devices as well. The shape, number, and total capacity of the AC outlets may differ depending on the area of purchase. Other components 9 MULTI CHANNEL INPUT By connecting a DVD player, MPEG decoder, or other component that has a multi channel port, you can playback the audio with 5.



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1 channel output. So, be sure to prepare a cable that can properly connect the TX-DS494 to the peripheral device. COAXIAL IN 1 2 A AC OUTLETS AC 230-240V 50Hz SWITCHED TOTAL 100W MAX. AC OUTLETS AC 120V 60Hz SWITCHED TOTAL 120W 1A MAX. FRONT IN R SURR L L B 1 2 3 7 OUT R 4 5 6 IN SUB WOOFER CENTER VIDEO MULTI CHANNEL INPUT R L FRONT SPEAKERS or 1.

2. 3. 4. 5. 6.

7. Front right Surround right Center Front left Surround left Subwoofer Video etc. DVD player/MPEG decoder Caution: Make sure that the total capacity of the other components connected to this unit does not exceed the capacity that is printed on the rear panel (e.g., 120 watts). · Connect the video output to one of VIDEO IN connectors (DVD, VIDEO 1 and VIDEO 2). 11 Example of how to connect your equipment Here is explanation of how to connect the main components to the TX-DS494 in the standard manner. There are many ways that any one component can be connected, and it is up to you to decide which method best fits your situation. The directions given here are only one option and should only be thought of as such. It is best to fully understand the nature of each connector and terminal as well as each of your components and their features to ascertain which method of connection is best.

· Be sure to always refer to the instruction manual that came with the component that you are connecting. · Do not plug in the power cord until all connections have been made. · For input jacks, red connectors (marked R) are used for the right channel, white connectors (marked L) are used for the left channel, and yellow connectors (marked VIDEO) are used for video connection. · Insert all plugs and connectors securely. Improper connections can result in noise, poor performance, or damage to the equipment. Improper connection For example, follow the steps below to assign OPTICAL to the DVD device connected to the DIGITAL INPUT OPTICAL jack. 1. Press the DVD Input Selector button. The DVD input is selected and "DVD" appears in the display. 2.

Press the DIGITAL INPUT button. The current DVD setting (COAX 1) appears. 3. Press the DIGITAL INPUT button repeatedly to select "OPT". Pressing the DIGITAL INPUT button repeatedly will change the setting as follows: Select if connected to DIGITAL INPUT OPTICAL.

Inserted completely Select if connected to DIGITAL INPUT COAXIAL 1. Select if connected to DIGITAL INPUT COAXIAL 2. Select if the input source is not from a digital input jack. · Do not bind audio connection cables with power cords and speaker cables. Doing so may adversely affect the sound quality.

For a detailed explanation of how to connect the devices given below, refer to the pages listed. Speakers: See page 17 Radio antenna: See page 18 Setting the digital inputs When connecting digital source components to the DIGITAL INPUT jacks on the rear panel, assign the input source button on the front panel to either a DIGITAL INPUT OPTICAL or COAXIAL jack depending on the type of connector on the digital source components. The DVD, CD, VIDEO 1,

VIDEO 2 and TAPE inputs can be assigned to the DIGITAL INPUT jacks. With the initial setting, the OPTICAL connector is assigned to the CD input, COAXIAL 1 is assigned to the DVD input and COAXIAL 2 is assigned to the VIDEO 1 input, and no input connector is assigned to the VIDEO 2 and TAPE inputs. About five seconds after "OPT" 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 23). Note: Do not assign a single DIGITAL INPUT jack to more than one source. For example, if you assign the OPTICAL jack to the DVD input, since the OPTICAL jack is assigned to the CD input by the initial setting, it would result in assigning a single OPTICAL jack to both the CD and DVD inputs. Whenever you assign a DIGITAL INPUT jack to a different source from the initial setting, be sure to change the initial setting for the jack in advance. Default setting Input source CD PHONO AM FM TAPE VIDEO 2 VIDEO 1 DVD COAXIAL 2 COAXIAL 1 Digital input OPTICAL : Available for digital input but not set in initial setting.

: Not available for digital input. 12 Example of how to connect your equipment Connecting your audio components Connecting a turntable Using an RCA-type audio connection cable, connect the output terminal on the turntable to the PHONO L/R jacks on the TX-DS494. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack. Note: The TX-DS494 is designed for use with moving magnet cartridges. For proper operation, connect a ground (or earth) wire to the GND terminal. For some turntables, however, connecting the ground wire may cause increased noise, and in such a case, a ground wire is not necessary and should not be connected. Tape deck, MD recorder, DAT deck, CD recorder, (TAPE) AUDIO IN (REC) R L AUDIO OUT (PLAY) R L Example of audio equipment connections Connecting a CD player Using an RCA-type audio connection cable, connect the output terminal on the CD player to the CD L/R jacks on the TX-DS494. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack. If the CD player has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT OPTICAL or COAXIAL jack on the TX-DS494 depending on the type of connector on the CD player. With the initial settings of the TX-DS494, the CD input source is set for digital input at the OPTICAL jack.

If the digital connection is made at a different jack, this must be changed (see page 12). ANTENNA SUB WOOFER PRE OUT MONITOR OUT DVD VID R OUT AM L IN TAPE IN FM 75 DIGITAL INPUT MONITOR OUT OPTICAL COAXIAL 1 2 DVD IN FRONT Connecting a cassette tape deck, MD recorder, DAT deck, or CD recorder Using an RCA-type audio connection cable, connect the output terminals (PLAY) of the device to the TAPE IN L/R jacks on the TX-DS494 and the input terminals (REC) to the TAPE OUT L/R jacks. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack. If the device has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT OPTICAL or COAXIAL jack on the TX-DS494 depending on the type of connector on the device. With the initial settings of the TX-DS494, the DIGITAL INPUT jack for the TAPE source is not assigned.

If you connect the device to the DIGITAL INPUT jack, then this input source must be set for digital input at the DIGITAL INPUT button (see page 12). PHONO GND VIDEO 1 IN R SURR L L CD VIDEO 2 OUT R L R IN SUB WOOFER CENTER R L VIDEO MULTI CHANNEL INPUT R GND L R L OPTICAL AUDIO OUT AUDIO OUT DIGITAL OUT Turntable (PHONO) CD player (CD) Audio (L) Audio (R) Optical plug Analog signal Digital signal Signal flow 13 Example of how to connect your equipment Connecting your video components Connecting a DVD player or LD player Using an RCA-type video connection cable, connect the video output terminal (composite) on the device to the DVD IN VIDEO jack on the TX-DS494.



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If there is an S video output terminal on the DVD player or LD player, connect it to the DVD IN S VIDEO jack using an S video cable. Using an RCA-type audio connection cable, connect the audio output terminal on the DVD player or LD player to the audio DVD IN L/R jacks on the TX-DS494. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack.

If the DVD player or LD player has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT OPTICAL or COAXIAL jack on the TX-DS494 depending on the type of connector on the DVD player or LD player. With the initial settings of the TX-DS494, the DVD input source is set for digital input at the COAXIAL 1 jack. If the digital connection is made at a different jack, this must be changed (see page 12). Connecting a satellite tuner or television Using an RCA-type video connection cable, connect the video output terminal (composite) on the satellite tuner or television to the VIDEO 1 IN VIDEO jacks on the TX-DS494. If there is an S video output terminal on the satellite tuner or television, connect it to the VIDEO 1 IN S VIDEO jack using an S video cable. Using an RCA-type audio connection cable, connect the audio output terminal on the satellite tuner or television to the same VIDEO 1 IN L/R jacks on the TX-DS494. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack. If the satellite tuner or television has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT OPTICAL or COAXIAL jack on the TX-DS494 depending on the type of connector on the satellite tuner or television. With the initial settings of the TX-DS494, the VIDEO 1 input source is set for digital input at the COAXIAL 2 jack. If the digital connection is made at a jack different from the initial settings, this must be changed (see page 12).

Connecting a video cassette recorder Using an RCA-type video connection cable, connect the video output terminal (composite) on the video cassette recorder to the VIDEO 2 IN VIDEO jack on the TX-DS494 and video input terminal to the VIDEO 2 OUT VIDEO jack. If there is an S video output terminal on the video cassette recorder, connect it to the VIDEO 2 IN S VIDEO jack using an S video cable. Using an RCA-type audio connection cable, connect the audio output terminal on the video cassette recorder to the same VIDEO 2 IN L/R jacks on the TX-DS494 and audio input terminal to the VIDEO 2 OUT L/R jacks. Make sure that you properly connect the left channel to the L jack and the right channel to the R jack. If the video cassette recorder has a digital output jack as well, be sure to also connect it to either a DIGITAL INPUT OPTICAL or COAXIAL jack on the TX-DS494 depending on the type of connector on the video cassette recorder. With the initial settings of the TX-DS494, the DIGITAL INPUT jack for the VIDEO 2 source is not assigned. If you connect the video cassette recorder to the DIGITAL INPUT jack, then this input source must be set for digital input at the DIGITAL INPUT button (see page 12). Connecting a television monitor or projector Using an RCA-type video connection cable, connect the video input terminal (composite) on the monitor to the MONITOR OUT VIDEO jack on the TX-DS494. If there is an S video input terminal on the monitor, connect it to the MONITOR OUT S VIDEO jack using an S video cable. 14 Example of how to connect your equipment Example of video equipment connections DVD player or LD player (DVD) AUDIO OUT R L VIDEO DIGITAL S VIDEO OUT OUT COAXIAL TV monitor or Projector (MONITOR OUT) VIDEO S VIDEO IN IN ANTENNA SUB WOOFER PRE OUT MONITOR OUT DVD VIDEO 1 VIDEO 2 S VIDEO R OUT AM L IN IN IN TAPE IN FM 75 DIGITAL INPUT MONITOR OUT OPTICAL R L COAXIAL 1 2 A DVD IN FRONT GND VIDEO 1 IN R SURR L L B PHONO CD VIDEO 2 OUT R L R IN SUB WOOFER CENTER R L VIDEO MULTI CHANNEL INPUT R L FRONT SPEAKERS Video Audio (L) Analog signal Audio (R) COAXIAL DIGITAL S VIDEO OUT OUT R L VIDEO OUT R L S Video plug AUDIO OUT AUDIO OUT AUDIO IN VIDEO S VIDEO OUT IN S video signal Coaxial plug Satellite tuner or TV (VIDEO 1) VCR (VIDEO 2) Digital signal Signal flow 15 Positioning speakers This unit has two sets of speaker system terminals (for SPEAKERS A and SPEAKERS B).

Before connecting the speakers, place them correctly by consulting the instruction manuals that came with them. For surround playback, the configuration and placement of your speakers are very important. Speaker placement Ideal speaker placement varies depending on the size of your room and the wall coverings. Here, only typical example of speaker placement and recommendations are shown. Important points regarding speaker placement Standard speaker system for reproducing surround sound · Front right and left speakers · Center speaker Produces a rich sound image by serving as a sound source for the front right and left speakers and enhancing the sonic movement.

· Surround right and left speakers Adds three-dimensional sonic movement and produces environmental sound associated with the background and effect sound for each scene. · Subwoofer Produces powerful and heavy bass. Front left and right speakers and center speaker · Place these three speakers at the same height from the floor. · Place each speaker so that sound is aimed at the location of the listener's ears at the listening position. · Install the left and right front speakers at the same distance from the listening position.

Surround left and right speakers · Place these speakers so that their height is 1 meter (3.3 feet) higher than that of the listener's ears. Subwoofer · The subwoofer can provide a similar sound effect regardless of the installation position, provided that it is installed within the room containing the listening position. If the subwoofer and center speaker are not available The sound recorded for the center speaker and the subwoofer will be properly distributed to the front right and left speakers for optimized surround playback. TV/Monitor screen Left Front Right Subwoofer Center Speaker Front speaker Surround left speaker Surround right speaker Listening position 16 Connecting speakers Connecting speakers After installing the speakers, connect them to the TX-DS494. CAUTION: SPEAKER IMPEDANCE 6 min. per each speaker terminal. · To prevent damage to circuitry, never short-circuit the positive (+) and negative (-) speaker wire. NO! Preparation of speaker cords 1. Strip away 15 mm (5/8 inch) of wire insulation.

2. Twist wire ends very tight. 15mm (5/8") Connecting the speaker cord 1. Loosen the screw. · Be sure to connect the positive and negative cables for the speakers properly.



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If they are mixed up, the left and right signals will be reversed and the audio will sound unnatural. · Connect speakers with an impedance between 6 and 16 . Connecting speakers with an impedance less than 6 may damage the TX-DS494. · Do not connect more than one speaker cable to one speaker terminal. Doing so may damage the TX-DS494.

· When you are using only one speaker or when you 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. 2. Fully insert the end of the cord. NO! R L NO! R L 3. @@@@Extend the antenna cord.

Connecting the FM indoor antenna North American models: 1. @@Press down the lever. 2. @@@@The AM loop antenna is for indoor use only. @@@@It is dangerous to put the antenna close to power lines.

Keep it well away from power lines, transformers, etc. @@@@Loosen the screws with a screwdriver. R OUT AM L TAPE IN FM 75 MONITOR OUT DVD IN GND VIDEO 1 IN 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. 2. Wrap the wire these screws. around 3. Tighten the screws with a screwdriver. To TX-DS494 To TV (or VCR) Connecting the antenna cable to the 75/300 antenna adapter (Worldwide models only) Connecting the coaxial cable Connecting an AM outdoor antenna An outdoor antenna will be more effective if it is stretched horizontally above a window or outside. AM loop antenna (Indoor) 1.

Prepare the coaxial cable as shown in the diagram. Outdoor antenna Connect both antennas. 636 mm mm mm 15mm (5/8") 2. With your fingernail, or a small screwdriver, press the stoppers of the 75/300 antenna adapter outward and remove the cover. Expand the stoppers. ANTENNA R OUT AM L TAPE IN FM 3. Connect the 75/300 antenna adapter to the coaxial cable. Clamp with radio pliers, etc. Notes: · Do not remove the AM loop antenna. @@Follow item 14 of the "Important Safeguards" on page 2 when you install the outdoor antenna.

Push in the extremity of the conductor wire. 19 Connecting the power STANDBY indicator REM OTE CONTROLLER RC-443S STANDBY/ON STANDBY/ON STANDBY/ ON SLEEP DIMMER DISPLAY INPUT SELECTOR CD TAPE PHONO TUNER DVD VIDEO 1 VIDEO 2 TUNER SUR MODE SW MODE AUDIO SEL PRESE T MODE DISPLAY STEREO LISTENING MODE / DTS SURROUND DSP STANDBY/ ON MASTER VOLUME DVD CD TAPE STANDBY/ON STANDBY DISC MUTING POWER ON OFF DIMMER SP SEL SW MODE DIGITAL INPUT FM MODE CLEAR MEMORY TUNING PRESET A SPEAKERS B TOP MENU ENTER MENU VOLUME RETURN AUDIO SELECTOR SETUP DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD TEST TONE CH SEL PHONES VCR BASS TREBLE LEVEL AV RECEIVER TX-DS494 To wall outlet POWER Connecting the power · The TX-DS494 is shipped with the main power (POWER) switch in the on position (_ ON). When the power cord is plugged in for the first time, the TX-DS494 will automatically enter the standby state and the STANDBY indicator will light (same condition after step 2 below). · Before you plug in the TX-DS494, confirm that all connections have been made properly. · Turning on the power may cause a momentary power surge, which might interfere with other electrical equipment on the same circuit, such as computers.

If this happens, use a wall outlet on a different circuit. Turning this unit ON from an z-connected component When the DVD player, CD player or MD recorder connected with the TX-DS494 through z cables is turned on, the TX-DS494 automatically turns on and selects the source that was turned on. Turning the TX-DS494 off sets the z-connected DVD player, CD player or MD recorder to standby mode. When the TX-DS494 is already on, pressing the play button on the DVD player, CD player, cassette deck or MD recorder merely selects the input source that was played. Notes: · The function of turning on the TX-DS494 is not available if its POWER switch is set to the off position (-- OFF) or the source components is not connected properly.

When controlling the TX-DS494 from an z-connected component, make sure that the POWER switch of this unit is set to the on position (_ ON) and that the component is connected properly. · When a cassette tape deck or MD recorder is connected with the z connector of this unit, it can be controlled from the source component selected with the TAPE button. · Certain component models may not be able to control the TX-DS494. 1. Plug the power cord into an AC wall outlet. 2. Press the POWER switch to set the TX-DS494 to standby state. The STANDBY indicator lights up. 3. Press the STANDBY/ON button to turn on the TX-DS494.

The display lights up and the STANDBY indicator turns off. If you press the STANDBY/ON button again, the receiver returns to standby mode. Turning the power on from the remote controller Before you can use the remote controller, you must perform steps 1 and 2 above and place the TX-DS494 in the standby state. Press the STANDBY/ON button on the remote controller to turn on the TX-DS494 (take it out of the standby state). · To return the TX-DS494 to the standby state, press the STANDBY/ON button on the remote controller. Memory preservation This unit does not require memory preservation batteries. A built-in memory power backup system preserves the contents of the memory during power failures and even when the POWER switch is set to off. The POWER switch must be set to on in order to charge the backup system. The memory preservation period after the unit has been turned off varies depending on climate and placement of the unit. On the average, memory contents are protected over a period of a few weeks after the last time the unit has been turned off.

This period is shorter when the unit is exposed to a highly humid climate. 20 Speaker Setup REM OTE CONTROLLER RC-443S STANDBY/ ON SLEEP DIMMER DISPLAY SP SEL SW MODE SW MODE DISPLAY STEREO LISTENING MODE / DTS SURROUND DSP INPUT SELECTOR CD TAPE PHONO TUNER DVD VIDEO 1 VIDEO 2 TUNER SUR MODE SW MODE AUDIO SEL PRESE T MODE STANDBY/ ON MASTER VOLUME DVD CD TAPE STANDBY/ON STANDBY DISC MUTING POWER ON OFF DIMMER SP SEL SW MODE DIGITAL INPUT FM MODE CLEAR MEMORY TUNING PRESET A SPEAKERS B TOP MENU ENTER MENU VOLUME 5/ VOLUME RETURN AUDIO SELECTOR SETUP DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD PHONES VCR BASS TREBLE AV RECEIVER TX-DS494 TEST TONE CH SEL TEST TONE CH SEL LEVEL LEVEL 5/ You need to set up the speaker configuration for the speaker system connected to the SPEAKERS A terminals (see page 17).



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Notes: · The speakers cannot be set up for optimum audio reproduction if; Headphones are connected (see page 8), or The SPEAKERS B system is On (see page 7). · It is not necessary to set up again once you have completed the setup unless you change the speaker configuration. Note: When the subwoofer mode is set to MODE 2 and audio is reproduced in the STEREO mode, the subwoofer may not output audio from certain sources (2 channel-Dolby Digital/DTS source etc.

). Adjusting each speaker's relative volume balance (Remote controller only) Adjust each speaker's relative volume balance so that the volume of all speaker's test tones sound equal at the listening position. Selecting the speaker configuration Press SP SEL button repeatedly to select the number of channels for the SPEAKERS A system. When the button is pressed, the current speaker setup will be displayed for about 5 seconds. If you want to change it, press the same button again within the 5 seconds.

When the button is pressed repeatedly, the number of channels changes as follows: 1. Press the TEST TONE button. Adjust the volume by gently increasing it with the VOLUME 5 button. Each speaker produces the test tone (pink noise) in the following order: Front left speaker Front left and right speakers Center speaker Front left, right, and center speakers Front right speaker Front left and right, plus surround left and right speakers Surround right speaker Front left, right, and center, plus surround left and right speakers Surround left speaker Subwoofer Setting the subwoofer mode Press SW MODE button repeatedly to select the subwoofer mode. When the button is pressed, the current subwoofer mode will be displayed for about 5 seconds. If you want to change it, press the same button again within the 5 seconds. When the button is pressed repeatedly, the subwoofer mode changes as follows: 2. To adjust the level of each speaker, press the CH SEL button to select a speaker and press the LEVEL 5/ buttons to raise or lower the level. The test tone should sound at the same level when you hear it in your listening position. You can adjust the level in the range between 12 dB to +12 dB.

When small-width limited bass signal handling-front speakers are connected When large-wideband-front speakers are connected When no subwoofer is connected 3. Press the TEST TONE button to complete adjustment. 21 Selecting a sound source REM OTE CONTROLLER RC-443S SPEAKERS A MASTER VOLUME SLEEP STANDBY/ ON SLEEP DIMMER DISPLAY INPUT SELECTOR CD TAPE PHONO TUNER INPUT SELECTOR DVD VIDEO 1 VIDEO 2 TUNER SUR MODE SW MODE AUDIO SEL PRESE T AUDIO SEL MODE DISPLAY STEREO LISTENING MODE / DTS SURROUND DSP STANDBY/ ON MASTER VOLUME DVD CD TAPE STANDBY/ON STANDBY DISC MUTING POWER ON OFF DIMMER MUTING VOLUME 5/ LEVEL 5/ SP SEL SW MODE DIGITAL INPUT FM MODE CLEAR MEMORY TUNING PRESET A SPEAKERS B TOP MENU ENTER MENU VOLUME RETURN AUDIO SELECTOR SETUP DVD VIDEO 1 VIDEO 2 TAPE FM AM PHONO CD PHONES VCR BASS TREBLE AV RECEIVER TX-DS494 TEST TONE CH SEL TEST TONE CH SEL LEVEL AUDIO SELECTOR Input selector BASS/TREBLE Selecting a sound source 1. Press the desired input selector button. The selected source name appears in the display. If the TAPE button is pressed, either the TAPE or MD input which has been selected beforehand will be displayed. The TAPE and MD sources can be switched alternately by holding the TAPE button for about 2 seconds. Using MULTI CHANNEL INPUT The MULTI CHANNEL INPUT refers to a system, which is compatible with a source component equipped with 5.1-channel outputs (DVD player, MPEG decoder, etc.), reproducing the left/ right front, center and left/right surround channels from five respective speakers and outputting the subwoofer channel from SUB WOOFER PRE OUT (refer to page 11).

2. When the selected source is other than FM, AM or PHONO, press the AUDIO SELECTOR button on the front panel or the AUDIO SEL button on the remote controller to select an audio input signal format. Each time the button is pressed, the setting cycles; "AUTO" "MULTI CH" "ANALOG" "AUTO" (back to the beginning) (refer to page 23). 1. Press AUDIO SELECTOR button repeatedly to select "MULTI CH".

2. Turn on the component connected to the MULTI CHANNEL INPUT port and start playing the desired media. 3. If necessary, press the CH SEL button on the remote controller to select an individual speaker. Then press the LEVEL 5/ button to adjust the output level as desired.

Adjust the speaker output level so that you can hear the same sound level from each speaker at the listening position. For the front right, front left, center, surround right and surround left speakers, the output levels can be adjusted between 12 to +12 dB. The subwoofer can be adjusted between 30 to +12 dB. The volume levels from the speakers reproducing MULTI CHANNEL INPUT are independent from the speaker levels set using the test tone (page 21). These settings are not applied to speakers reproducing MULTI CHANNEL INPUT. Notes: · MULTI CH cannot be selected when FM, AM or PHONO is selected as the input source. · The surround mode cannot be selected when MULTI CH is selected. Also, if MULTI CH is selected during use of a surround mode, it is canceled automatically. · If the speaker level is set to +1 dB or higher, the maximum level indicated in the display will change if you raise the volume level. · Regardless of the speaker configuration, the input signal will be output to each corresponding speaker.

For example, even if the speaker configuration is set to 2 ch, sound comes from all speakers. 3. Make sure that the SPEAKERS A indicator lights up in the display. If it does not light, press the SPEAKERS A button. 4. Start playing the selected input source. Follow the operating instructions for the source device. 5. Adjust the volume with the MASTER VOLUME dial on the front panel or the VOLUME 5/ buttons on the remote controller. Turn the MASTER VOLUME dial clockwise to increase the volume or counterclockwise to decrease it.

6. Adjust the tone with the BASS and TREBLE control knobs on the front panel. Turn the BASS and TREBLE control knobs to adjust the bass and treble response from the Front speakers (refer to page 8). 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 (refer to page 23). · 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 12). 22 Selecting a sound source 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.



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