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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 230. You'll find the answers to all your questions on the HARMAN KARDON AVR 230 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

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User guide HARMAN KARDON AVR 230
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AVR 132/230

SERVICE MANUAL



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Power for the Digital Revolution®



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Manual abstract:

07% THD, both channels driven into 8 ohms Five-Channel Surround Modes Power Per Individual Channel Front L&R channels: 30 Watts per channel, @ < 0.07% THD, 20Hz-20kHz into 8 ohms Center channel: 30 Watts, @ < 0.07% THD, 20Hz-20kHz into 8 ohms Surround channels: 30 Watts per channel, @ < 0.07% THD, 20Hz-20kHz into 8 ohms Input Sensitivity/Impedance Linear (High Level) Signal-to-Noise Ratio (IHF-A) 200mV/47kohms 95dB FM Tuner Section Frequency Range Usable Sensitivity Signal-to-Noise Ratio Distortion Stereo Separation Selectivity Image Rejection IF Rejection AM Tuner Section Frequency Range Signal-to-Noise Ratio Usable Sensitivity Distortion Selectivity Video Section Video Format Input Level/Impedance Output Level/Impedance Video Frequency Response General Power Requirement Power Consumption Dimensions (Max) Width Height Depth Weight 87.5108MHz IHF 1.3 $\mu\text{V}/13.2\text{dB}$ Mono/Stereo: 70/65dB (DIN) Mono/Stereo: 0.15/0.3% 35dB @ 1kHz $\pm 400\text{kHz}$: 70dB 80dB 90dB 5221620kHz 45dB Loop: 500 μV 1kHz, 50% Mod: 0.8% $\pm 10\text{kHz}$: 30dB Surround System Adjacent Channel Separation Analog Decoding 40dB (Pro Logic, etc.

) Dolby Digital (AC-3) 55dB DTS 55dB Frequency Response @ 1W (+0dB, 3dB) High Instantaneous Current Capability (HCC) Transient Intermodulation Distortion (TIM) Rise Time Slew Rate 10Hz-100kHz ± 25 Amps Unmeasurable 16 μsec 40V/ μsec PAL/NTSC 1Vp-p/75 ohms 1Vp-p/75 ohms 10Hz-8MHz (3dB) AC 220-240V/50Hz 72W idle, 580W maximum (2 channels driven) 440mm 165mm 382mm 9.6 kg Depth measurement includes knobs, buttons and terminal connections. Height measurement includes feet and chassis. All features and specifications are subject to change without notice. Harman Kardon is a registered trademark.

*Manufactured under license from Dolby Laboratories. "Dolby", "Pro Logic", and the Double-D symbol are trademarks of Dolby Laboratories, Inc. Confidential Unpublished Works. ©1992/1999 Dolby Laboratories, Inc. All rights reserved.

"DTS" and "DTS Neo:6" are registered trademarks of DTS, Inc. "96/24" is a trademark of DTS, Inc. Logic 7 is a registered trademark of Lexicon, Inc. TECHNICAL SPECIFICATIONS 35 SAFETY PRECAUTIONS The following check should be performed for the continued protection of the customer and service technician. LEAKAGE CURRENT CHECK Measure leakage current to a known earth ground (water pipe, conduit, etc.) by connecting a leakage current tester between the earth ground and all exposed metal parts of the appliance (input/output terminals, screwheads, metal overlays, control shaft, etc.). Plug the AC line cord of the appliance directly into a 120V AC 60Hz outlet and turn the AC power switch on. Any current measured must not exceed 0.5mA.

Device under test Test all exposed metal surfaces Also test with plug reversed (Using AC adapter plug as required) Leakage current tester Reading should not be above 0.5mA Earth ground AC Leakage Test ANY MEASUREMENTS NOT WITHIN THE LIMITS OUTLINED ABOVE ARE INDICATIVE OF A POTENTIAL SHOCK HAZARD AND MUST BE CORRECTED BEFORE RETURNING THE APPLIANCE TO THE CUSTOMER. Front Panel Controls E D F 5 J I DIGITAL PRO LOGIC 3 STEREO DSP LOGIC 7 VID 1 VID 2 VID 3 DVD CD FMAM TAPE 6 CH 5 CH. STEREO SURR. OFF 1 2 6 C 7 8 9 B A3 4 G L 0 1 2 3 4 5 6 Main Power Switch System Power Control Power Indicator Headphone Jack Digital Optical 3 Input Speaker/Channel Input Indicator Surround Mode Group Selector 7 Tuning 8 Tuner Band Selector 9 Preset Stations Selector A Input Source Selector B RDS Select Button C Surround Mode Selector D Surround Mode Indicators E Remote Sensor Window F Main Information Display G Digital Coax 3 Input H Video 3 input jacks I Volume Control J Input Indicators 0 Main Power Switch: Press this button to apply power to the AVR. When the switch is pressed in, the unit is placed in a Standby mode, as indicated by the orange LED 2. This button MUST be pressed in to operate the unit. To turn the unit off completely and prevent the use of the remote control, this switch should be pressed until it pops out from the front panel so that the word "OFF" may be read at the top of the switch. @@Note that the Power Indicator 2 will turn blue when the unit is on. @@When the unit is in operation, the indicator will turn blue.

@@@Note that the speakers will automatically be turned off when the headphones are connected. 4 Digital Optical 3 Input: Connect the optical digital audio output of an audio or video product to this jack. @@@@The center box lights when a "Small" speaker is selected, and the two outer boxes light when "Large" speakers are selected. When none of the boxes are lit for the center, surround or subwoofer channels, no speaker has been selected for that position. (See page 16 for more information on configuring speakers.

) The letters inside each of the center boxes display active input channels. For standard analog inputs, only the L and R will light, indicating a stereo input. When a digital source is playing, the indicators will light to display the channels begin received at the digital input. When the letters flash, the digital input has been interrupted. (See page 20 for more information on the Channel Indicators).

FRONT PANEL CONTROLS 5 Front Panel Controls 6 Surround Mode Group Selector: Press this button to select the top-level group of surround modes. Each press of the button will select a major mode grouping in the following order: Dolby Modes DTS Digital Modes DSP Modes Stereo Modes Logic 7 Modes Once the button is pressed so that the name of the desired surround mode group appears in the Lower Display Line F, press the Surround Mode Selector C to cycle through the individual modes available. @@@@B RDS Select Button: Press this button to display the various messages that are part of the RDS data system of the AVR's tuner. (See page 28 for more information on RDS). C Surround Mode Selector: Press this button to select from among the available surround mode options for the mode group selected. The specific modes will vary based on the number of speakers available, the mode group and if the input source is digital or analog. For example, press the Surround Mode Group Selector 6 to select a mode grouping such as Dolby or Logic 7, and then press this button to see the mode choices available. For more information on mode selection, see page 21. D Surround Mode Indicators: Indicator will illuminate in front of the surround mode that is currently in use. E Remote Sensor Window: The sensor behind this window receives infrared signals from the remote control.

Aim the remote at this area and do not block or cover it unless an external remote sensor is installed. F Main Information Display: This display delivers messages and status indications to help you operate the receiver. G Digital Coax 3 Input: This jack is normally used for connection to the output of portable digital audio devices, video game consoles or other products that have a coax digital jack.



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@@CHIP (392R 1%) RES. CHIP (392R 1%) RES. CHIP (392R 1%) RES. CHIP (392R 1%) RES. CHIP (392R 1%) RES. @@@@If the system still malfunctions, a system reset may clear the problem. To clear the AVR's entire system memory including tuner presets, output level settings, delay times and speaker configuration data, first put the unit in Standby by pressing the System Power Control button 1. Next, press and hold the Surround Mode Button 6 for 5 seconds.

The unit will turn on automatically. Note that once you have cleared the memory in this manner, it is necessary to re-establish all system configuration settings and tuner presets. NOTE: Resetting the processor will erase any configuration settings you have made for speakers, output levels, surround modes, digital input assignments as well as the tuner presets. After a reset the unit will be returned to the factory presets, and all settings for these items must be reentered. If the system is still operating incorrectly, there may have been an electronic discharge or severe AC line interference that has corrupted the memory or microprocessor. If these steps do not solve the problem, consult an authorized Harman Kardon service depot. 34 TROUBLESHOOTING GUIDE.



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