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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON MS 100. You'll find the answers to all your questions on the HARMAN KARDON MS 100 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

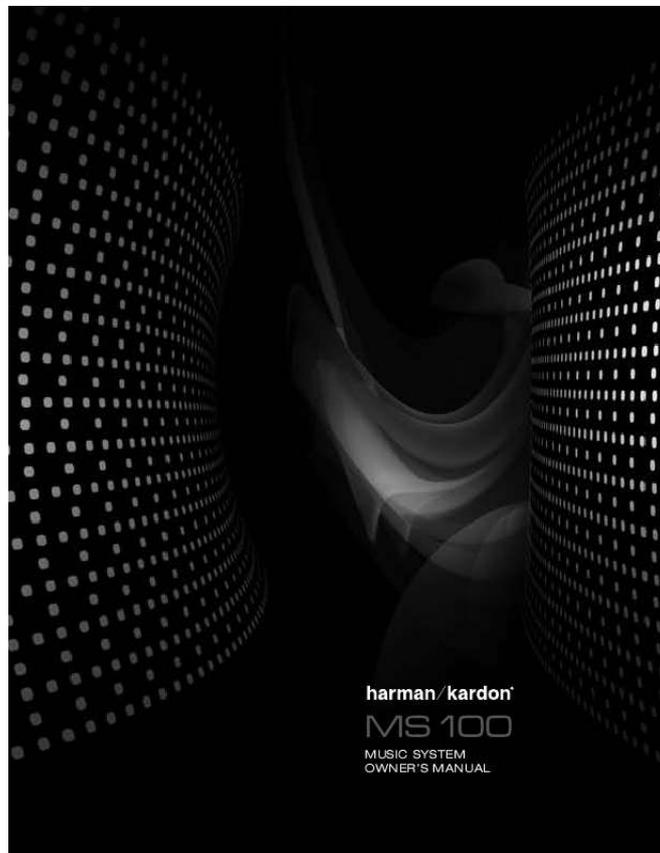
User manual HARMAN KARDON MS 100

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Operating instructions HARMAN KARDON MS 100

Instructions for use HARMAN KARDON MS 100

Instruction manual HARMAN KARDON MS 100



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Manual abstract:

3. 4. 5. 6. 7. 8. 9. Read these instructions. Keep these instructions. Heed all warnings.

Follow all instructions. Do not use this apparatus near water. Clean only with a dry cloth. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

@@@A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. @13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped. 15. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus. 16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle. 17. The mains plug of the power supply cord shall remain readily operable. 18.

Do not expose batteries to excessive heat such as sunshine, fire or the like. 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. 10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus. 11. Only use attachments/accessories specified by the manufacturer. 12. Use only with the cart, stand, tripod, bracket or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 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 product.

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Pb Instructions for users on removal and disposal of used batteries. Specification of included battery types. These symbols shown on the product, the packaging or in the manual or separate information sheet mean that the product itself, as well as the batteries included or built into the product, should never be thrown away with general household waste. Take them to applicable collection points, where proper treatment, recycling and recovery takes place, in accordance with national or local legislation, or European Directives 2002/96/EC and 2006/66/EC.

Correct handling of the product and batteries to be disposed helps saving resources and prevents possible negative effects on the environment or human health. @@All types should be disposed of according to the above instructions. @@@@If, for any reason, it becomes necessary to replace such a battery, this procedure must be performed by authorized service centers. Declaration of Conformity We, Harman Consumer Group, Inc. 2, route de Tours 72500 Château du Loir France declare in own responsibility that the product described in this owner's manual is in compliance with technical standards: EN 55013:2001+A1:2003 EN 55020:2002+A1:2003 EN 61000-3-2:2000 EN 61000-3-3:1995+A1:2001 EN 60065:2002 Jurjen Amsterdam Harman Consumer Group, Inc.

Château du Loir, France 3/09 2 TabLe OF COntTenTS 2 4 4 5 6 7 9 10 10 10 10 10 10 11 11 11 12 12 12 12 13 14 14 SaFeTY InFOrMaTIOn InTrOdUCTIOn and FeaTureS SUPPLIed aCCeSSOrLeS FrOnT-PaneL COntROLS rear-PaneL COnneCTIOnS reMOTe COntROL FUnCTIOnS InStaLLaTIOn OPeRaTIOn Using the Remote Control Setting the Clock Turning On the MS 100 Setting the Alarm Volume Control Source Selection FM Radio Program Station Presets CD Playback Control Data Discs Auxiliary Inputs Dock for iPod Photo and Video Playback Undocking the iPod Troubleshooting Guide Technical Specifications Trademark Acknowledgements English 3 InTrOdUCTIOn and FeaTureS More than 50 years ago, Harman Kardon, Inc., sold the very first audio receiver, a high-performance component that combined the functions of several products that had previously only been available separately. Our mission was and is to deliver highfidelity sound in an easy-to-use package, and we are confident that you will enjoy the quality and convenience of the MS 100 music system for many years to come. The MS 100 is a complete high-performance audio system with a CD player, FM tuner, dock for iPod (not included), auxiliary inputs for other audio products and built-in loudspeakers for a complete audio solution. To obtain the maximum enjoyment from your new system, we urge you to read this manual and refer back to it to familiarize yourself with the MS 100's features and operation. If you have any questions about this product, its installation or its operation, please contact your retailer or custom installer, or visit www.harmankardon.com. Harman Kardon® mS 100 High-performance audio System · Universal dock for iPod (not included) charges iPod touch, iPod nano 3rd generation, iPod classic, iPod nano 2nd generation, iPod 5th generation, iPod nano 1st generation, iPod 4th generation, iPod mini; video and still-image playback requires a compatible iPod that supports video browsing · Slot-loaded CD player with CD, CD-R, CD-RW, enhanced CD, MP3 and WMA playback · FM tuner with RDS text display and six presets · Four auxiliary audio inputs: front-panel stereo mini-jack (3.5mm), rear-panel stereo mini-jack (3.

5mm) for line-level or optical-digital audio, rear-panel dual RCA jacks (line-level) · Two 2-way, 125mm built-in bass-reflex speakers · Subwoofer output (low-pass filtered) · Stereo headphone output (3.5mm) · Composite and S-video outputs for photo- and video-capable iPod models that support video browsing · Clock with alarm and memory backup iPod not included Supplied accessories The following accessory items are supplied with the MS 100. If any of these items are missing, please contact Harman Kardon customer service at www.harmankardon.com. STANDBY ON PR EJECT PR+ TUNE TUNE+ MUTE VOLUME FM wire antenna Stereo mini-plug (3.5mm) male-to-male cable (1m) Mini (3.5mm) optical-digital audio cable (1m) External power supply (24V, 5.0 amps) with detachable power cord System remote control with two AAA batteries Detachable dock for iPod with five adapters 4 FrOnT-PaneL COntROLS English message Display: The time and messages are displayed on top of the unit. on/Standby: Press to turn the MS 100 on or to place it in Standby mode.



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Press and hold for 2 seconds to disarm the alarm. To completely power off the unit, unplug the power supply. Source: Each press changes the current source in this order: FM, CD, AUX LINE IN 1 (rear-panel 3.5mm analog input), AUX LINE IN 2 (front panel), AUX LINE IN 3 (rear-panel dual RCA jacks), AUX DIGITAL IN, iPod. Volume controls: Increases or decreases the volume.

Press and hold to change the volume more quickly. Press both together to mute. play/pause/memory: This button functions differently, depending on which source has been selected: · ipod or cD: Each press toggles between the Play and Pause functions. Press and hold to fully stop playback. · fm radio: If the current station has not been programmed into a preset, the station is stored as a preset.

If all of the preset positions have been used, the new preset will overwrite the existing one. @@Press the reverse button twice to skip to the previous track. Press and hold to scan forward or reverse within a track. @@Press and hold to scan quickly through the stations. @@@@CD Slot: Load compatible discs here. @@@@Select the Analog 1 or Digital Audio source. @@Subwoofer output: Connect this low-pass filtered output to a powered subwoofer (not included) for improved low-frequency (bass) reproduction. composite and S-Video outputs: Connect either of these outputs to a TV or video display for viewing videos or photos stored on a compatible iPod that supports video browsing. As of this writing, only the iPod nano 3rd generation, iPod classic and iPod 5th generation models support video browsing. No other displays are available through these outputs.

fm antenna terminal: Connect the included FM antenna wire here. ANTENNA FM75 AUX IN DC IN 24V 5A 120W FM ANTENNA TERMINAL VIDEO OUT SUBWOOFER OUT ANALOG/ DIGITAL IN S-VIDEO DC Power Input ANALOG 1/OPTICALDIGITAL AUXILIARY AUDIO INPUT AUXILIARY ANALOG SUBWOOFER AUDIO INPUT OUTPUT S-VIDEO OUTPUT VIDEO OUTPUT 6 reMOTe COntROL FUNctIOns English Standby: Powers down the MS 100 to Standby mode, where power is only available to the clock and alarm functions. To completely power off the unit, unplug the power supply. power on: Turns the MS 100 on. track-Skip/Scan/tuning up/Down: These buttons function differently, depending on which source has been selected: · ipod or cD: Press and release to skip to the next track. Press the reverse button twice to skip to the previous track. Press and hold to scan forward or in reverse within a track. · fm radio: See Tuning on this page. play/pause/memory: This button functions differently, depending on which source has been selected: · ipod or cD: Each press toggles between the Play and Pause functions. Press and hold to fiddot; 3.

5mm analog audio output or headphone jack: Plug included analog audio cable into the output or headphone jack and either the front- or rear-panel mini-jack on the MS 100. Both inputs may be used simultaneously for different devices. A second cable must be purchased. · pair of rca-type analog audio outputs: Plug one end of a two-conductor interconnect cable (not included) into the player, and the other end into the Auxsc is not compatible with the MS 100, or its data may be damaged. Press the Eject Button to remove it.

In normal operation, the disc will automatically begin playing. The Play icon will appear, along with the current and total track numbers and the elapsed track time. When the disc has finished playing, the Stop icon will appear, with the total number of tracks and total disc time. program Station presets To program a preset for quick access to favorite stations, tune to the station's frequency and press and hold the Play/Pause/ Memory Button for 2 seconds. The P01 preset will appear.

If no station has been programmed into the preset, the current station will be stored. If a different station was previously programmed, it will be overwritten by the new station. To select a new preset, use the Preset Up/Down Buttons; six presets are available. If all six have been programmed, you must overwrite or erase one to program a new station preset. If the current station was stored in the preset position, the preset will be erased. note: To cancel programming or erasing of a preset, press any other key. To select a preset station, use the PR +/- Buttons. playback control To momentarily pause playback for later resumption at the same point, press the Play/Pause Button. Press it again to resume play. The Pause icon will be displayed.

Press and hold the Play/Pause Button for 2 seconds to fully stop playback. 11 English Figure 1: Setting the Clock OPeraTIO · To search at 4x speed through the current track, press and hold the Skip/Scan Forward or Skip/Scan Reverse Button. When the track's beginning or end is reached, normal play will begin. · To skip to the next track, tap the Skip/Scan Forward Button. If the current track is the last one on the disc, the MS 100 will skip to the first track. · To return to the beginning of the current track, tap the Skip/ Scan Reverse Button. Tap it twice quickly to skip backwards to the previous track. @@@@Play will begin automatically. If the disc has both MP3 and WMA tracks, both indicators will light. @@@@Install the detachable dock and appropriate adapter as described in the Installation section, then dock the iPod.

Use the Source Selector to select the iPod source. Playback will begin automatically with the first track stored on the iPod. The transport controls work as they do for CDs: · To pause or restart play, press the Play/Pause Button. · To search forward or reverse through a track, press and hold the Skip/Scan Forward or Reverse Button. · To skip forward or reverse through the tracks, tap the Skip/Scan Forward or Reverse Button.

Repeat and Random Play are available. @@@@If available, the artist and track name will also appear. photo and Video playback If the iPod supports video browsing, navigate its menu system to select a video for viewing on a TV connected to one of the MS 100's video outputs. Make sure the TV Out setting on the iPod is turned on. Press the Button, and the video will begin playing.

To view photos, navigate to the desired library or image and press the > Button three times. After a few moments, a slideshow of the images in the selected library will appear on the TV. undocking the ipod Undock the iPod at any time, as long as playback has been stopped. To remove the dock adapter, e.g., to switch adapters for a different iPod model, insert a flathead screwdriver into the slot at the rear of the adapter and pry it up. Refer to the illustration in the Installation section. 12 TrOUbLeShOOTInG English trouBLEShOOTInG GuIde Symptom Unit does not function when Power On Switch is pushed. SoLutIon · akesuretheACpowercordissecurelypluggedintoanunswitched M outlet. @@@@ · resstheMuteButtontomakesurethesystemisnotmuted.

P · urnupthevolume.



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@@: If the headphones are in use, unplug them. There is sound on only one side, or the sound is distorted. @: The IR sensor may be blocked. The sensor is located in the middle T of the front grille, about 25mm above the CD slot. Just the placement of the antenna to improve reception. A: Check that the antenna is securely connected to the rear-panel C terminal. The tuner is buzzing intermittently. No video image. Check that the TV is securely connected to either the S-Video or Composite C Video Output, but not both. Video is only available when the dock for the iPod has been selected as the V source, and then only when a compatible iPod model that is capable of video browsing is docked. The TV output setting on the iPod must be turned on. There must be photo or video content stored on the iPod. Select the correct video input on the TV. Show photos, press the T Button three times.

MS 100 Technical Specifications System: Power output: 30 watts per channel, 20Hz - 20kHz, THD < 0.07%, into 6 ohms, both channels driven
 Bandwidth: 57Hz - 27kHz, 6dB System frequency response: 65Hz - 20kHz, ±3dB Signal-to-noise ratio, A-weighted: 75dB Channel separation: > 60dB
 Crosstalk between sources: < 60dB Line-level input sensitivity at 1kHz: 1.0V RMS, ±1dB LoudspeakerS: Low-frequency transducers: Two 125mm felted-paper drivers, ported High-frequency transducers: Two 19mm titanium laminate domes Nominal impedance: 6 ohms Sensitivity (2.83V/1m): 87dB Frequency response: 80Hz - 20kHz (±3dB) fm tuner Section: Frequency range: 87.5 - 108.0MHz Usable sensitivity: IHF 1.3µV/13.2dBf Signal-to-noise ratio: mono/stereo 70/65dB Distortion: mono/stereo 0.15/0.3% Stereo separation: 35dB @ 1kHz, 100% deviation @ 65dBf Selectivity: ±300kHz: 65dB Image rejection: 80dB IF rejection: 90dB Tuner output level: 1kHz, ±50kHz, Dev 500mV Number of presets: six RDS capability: PTY (program type), PS (program service), Text (radio text) Features, specifications and appearance are subject to change without notice. Harman Kardon is a trademark of Harman International Industries, Incorporated, registered in the United States and/or other countries. Designed to Entertain is a trademark of Harman International Industries, Incorporated. iPod is a trademark of Apple Inc., registered in the U.S. and other countries. iPod not included. "Made for iPod" means that an electronic accessory has been designed to connect specifically to iPod and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please register your product at www.harmankardon.com. You'll need your product's serial number. At the same time, you can choose to be notified about new products and/or special promotions. cD Section: Disc compatibility: CD, CD-R, CD-RW, enhanced CD, MP3, WMA THD+N (20Hz - 20kHz): < 0.01% Frequency response: 0dB ±0.5 Channel separation: >65dB Signal-to-noise ratio: A-weighted > 100dB 2kHz filter > 100dB 2 Video outputS: Composite video: 1.0V (pk-pk), 75, negative sync S-video: (Y) 1.0V (pk-pk), 75, negative sync (C) 0.286V (pk-pk), 75 General: Power requirement: DC 24V, 5A power supply; works for AC 230V/50Hz Power consumption: < 1W standby, 80W maximum (both channels driven) Operating temperature: 0°C to 35°C Dimensions (H x W x D): 252mm x 488mm x 194mm Weight: 8.2kg 14 15 English banner head 16 250 Crossways Park Drive, Woodbury, New York 11797 www.harmankardon.com © 2009 Harman International Industries, Incorporated. All rights reserved. Part No. 950-0246-003 Rev. E 3/09.



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