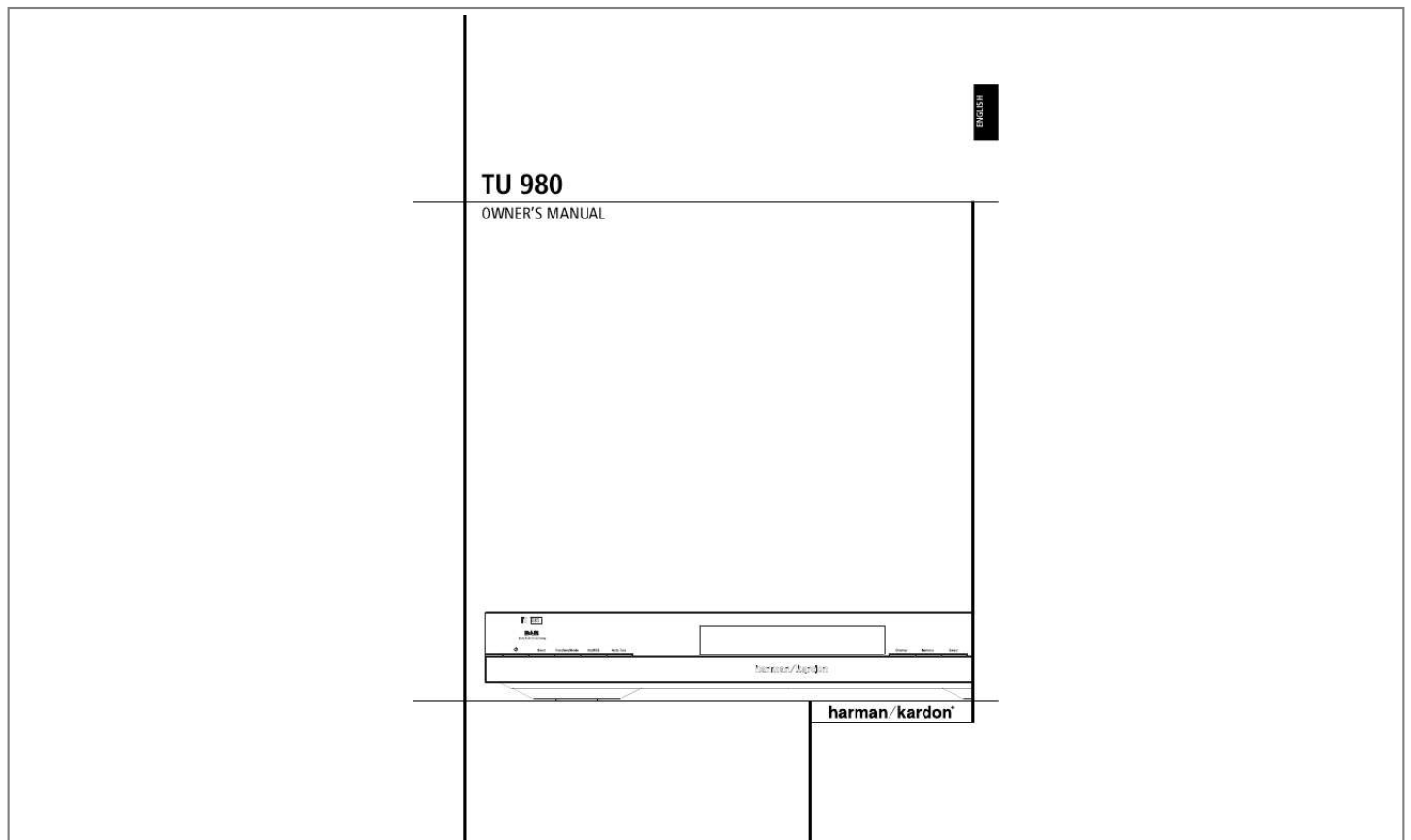




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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON TU 980. You'll find the answers to all your questions on the HARMAN KARDON TU 980 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

User manual HARMAN KARDON TU 980
User guide HARMAN KARDON TU 980
Operating instructions HARMAN KARDON TU 980
Instructions for use HARMAN KARDON TU 980
Instruction manual HARMAN KARDON TU 980



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Manual abstract:

While sophisticated systems are hard at work within the TU 980 to make all of this happen, hookup and operation are simple. To obtain maximum enjoyment from your new tuner, we urge you to take a few minutes to read through this manual. This will ensure that connections are made properly. In addition, a few minutes spent learning the functions of the various controls will enable you to take advantage of all the power the TU 980 is able to deliver. He is your best local source of information. With DAB, you can now receive CD-like quality radio programs without any annoying interference and signal distortion. Now in use in many countries, RDS is a system for transmitting station identification, a description of the station's program type, indication of national, regional or local programs and the correct time. RDS also allows you to search for favorite program types. A DOT-matrix display brings all this information to you with high visibility. As more FM stations become equipped with RDS capabilities, the TU 980 will serve as an easy to use center for both information and entertainment.

READ THIS BEFORE OPERATING YOUR UNIT. Install this tuner in a well ventilated, cool, dry, clean place with at least 10 cm on the top, 10 cm on the left and right, and 10 cm at the back away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold. Avoid installing this unit where foreign object may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place: Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury. Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit. Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

Install this unit near the AC outlet and where the AC power plug can be reached easily. This unit is not disconnected from the AC power source as long as it is connected to the wall outlet, even if this unit itself is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power. **WARNING TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.** INTRODUCTION 3 ENGLISH Front Panel Controls 01 2 3 4 5 @ 6 7 8 A 9 0 1 2 3 Power Indicator System Power Control Band selector Function/FM Mode Selector 4 5 6 7 Info/RDS Button Auto Tune Button Information Display Dimmer 8 Memory 9 Control Ring A Select B Remote Control Sensor 0 Power Indicator: This LED will illuminate in amber when the unit is in the Standby mode to signal that the unit is ready to be turned on. When the unit is in operation, the indicator will turn blue. 1 System Power Control: Press this button to turn on the TU 980; press it again to turn the unit off (to Standby). Note that the Power Indicator 0 next to the switch will turn blue when the unit is on. 2 Band Selector: Press this button to change between the DAB, FM and AM frequency bands.

3 Function/FM Mode Selector: In DAB mode, pressing this button will activate station order, preset tune, Dynamic Rate Control or manual tune features. In FM mode, press this button to select the stereo or mono mode for FM tuning. In the stereo mode, the word STEREO will be shown in the Information Display 6, and stereo reception will be provided when stations are transmitting stereo signals. In the mono mode, the left and right signals from stereo broadcasts will be mixed together and reproduced through all channels. Select MONO for better reception of weak signals. 4 Info/RDS Button: In DAB mode, pressing this button will change the content of the lower display line of the Information Display as shown on page 9, as well as signal error rate and software version. In RDS mode, it will change between the different RDS options. 5 Auto Tune Button: In DAB mode, press this button to automatically scan all available stations. 6 Information Display: This dual line display delivers messages and status indications to help you operate the tuner. 7 Dimmer: Press this button to dim the front panel display.

The first press of the button will dim the displays to one-half normal brightness; the next press will turn off the display. Press the button again to turn the displays back to normal brightness. The display will return to normal brightness the next time the unit is turned on. 8 Memory Button: Press this button to open the memory position that stores a preset location in the tuner. 99 DAB presets can be stored, as well as 30 FM and 30 AM presets. (See page 9 for more information on tuner presets.) 9 Control Ring: Turn counterclockwise to tune lower frequency stations and clockwise to tune higher frequency stations. When a station with a strong signal is tuned, the Information Display 6 will read TUNED. Turn again to tune to the next frequency increment in Manual Tune Mode, or automatically to the next station with a signal strong enough for acceptable reception in Auto Tune Mode. The ring also controls the parameters in the different menus.

A Select: In FM or AM mode, press this button to select Auto Tune, Manual Tune or Preset Tune. In DAB mode, press this button to select the displayed station. B 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. 4 FRONT PANEL CONTROLS Rear Panel Connections ENGLISH 1 2 8 3 0 76 4 5 0 Optical and Coaxial Digital Outputs 1 FM Antenna 2 AM Antenna 3 Analog Audio Outputs 4 DAB Antenna 5 AC Power Cord 6 Remote Control Output 7 Remote Control Input 8 Software Update and Reset Button 0 Optical and Coaxial Digital Outputs: Connect one of these jacks to the optical or coaxial digital input of your pre amplifier or integrated amplifier, if available. Note that these digital outputs only contain the digital signal from the DAB stations. For FM/AM reception, you will have to connect the analog outputs at all times. 1 FM Antenna: Connect an indoor or external FM antenna to this terminal. @@@@ DAB Antenna: Connect a DAB antenna to this terminal. 5 AC Power Cord: Connect this plug to an AC outlet.

@@@@@The Reset Button is only used during a software upgrade. A standard processor reset is performed by pressing and holding the frontpanel Function/FM Mode Button. REAR PANEL CONNECTIONS 5 Remote Control Functions 0 Standby/Power On: Press this button to turn on the TU 980. Note that the Power Indicator 0 next to the switch will turn blue when the unit is on. 1 Numeric Keys: These buttons serve as a ten-button numeric keypad to enter tuner preset positions or to tune stations directly.



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2 Clear Button: Press this button to clear presets from your station list. 3 Info/RDS Button: Pressing this button will change the content of the lower display line of the Information Display as well as signal error rate and software version. (See page 9 for more info). 4 Auto Tune Button: In DAB mode, press this button to automatically scan all available stations. 5 Scroll Buttons: Press L to tune lower frequency stations and K to tune higher frequency stations.

When a station with a strong signal is tuned, the Information Display 6 will read TUNED. Press again briefly to tune to the next frequency increment in Manual Tune Mode, or keep pressed for automatic search for the next station with a signal strong enough for acceptable reception in Auto Tune Mode. These buttons also control the parameters in the different menus, like the Control Ring 9 on the front panel. 6 Function/FM Mode Selector: In DAB mode, pressing this button will activate station order, preset tune, Dynamic Rate Control or manual tune features. In FM mode, press this button to select the stereo or mono mode for FM tuning.

In the stereo mode, the word STEREO will be shown in the Information Display 6, and stereo reception will be provided when stations are transmitting stereo signals. In the mono mode, the left and right signals from stereo broadcasts will be mixed together and reproduced through all channels. Select MONO for better reception of weak signals. 7 Band Selector: Press this button to change between the DAB, FM and AM frequency bands. 8 Select: In FM or AM mode, press this button to select Auto Tune, Manual Tune or Preset Tune.

9 Memory Button: Press this button to open the memory position that stores a preset location in the tuner. 99 DAB presets can be stored, as well as 30 FM and 30 AM presets. (See page 9 for more information on tuner presets.) A Standby/Power Off: Press this button to turn the unit off (to Standby). 0 A 1 2 3 4 5 8 7 6 9 0 Standby/Power On 1 Numeric Keys 2 Clear Button 3 Info/in the memory of the TU 980. @@NOTE: The station list can be shown in different order. @@@@Note that the Power Indicator 0 will turn blue. @@@@The first press will dim the lights to half normal. @@@@. Tune to the desired station with the Control Ring 9.

2. @@@@8. @@@@Note that the upper display line will always show the actual station. Pressing the Info Button again will show the next option.

@@@@The following information is available to display: 1. Dynamic Label Segmen control 9. @@2. @@3. Press the Memory Button again to confirm.

4. Repeat the process after tuning any additional stations to be preset. Auto Preset Preset stations may also be programmed automatically for the entire FM band. To automatically enter each station that may be tuned with acceptable quality into the TU 980's preset memories, first select the FM band. Next, press and hold the Memory Button 8 9 until the station frequency indication begins to increase.

Release the button and note that the tuner will search the entire FM band, and stop briefly at each station that has acceptable signal strength. The TU 980 will automatically assign a preset number to each station, and then search for the next station. NOTE: Using the automatic tuning mode in areas with more than 30 FM stations will completely fill the preset memories, and overwrite any previously memorized presets for either AM or FM stations. TIP: The automatic scan process may enter stations that you do not wish to retain in the memory. These unwanted stations may be removed from the memory by pressing the Memory Button 8 9 once the preset to be deleted is shown on the display.

Within 5 seconds press the Clear Button on the remote control 2 to confirm the deletion. Recalling Preset Stations To manually select a station previously entered in the preset memory, press the Numeric Keys 1 that correspond to the desired station's memory location. To manually tune through the list of stored preset stations one by one, press the Select Button A8 until the Information Display shows Preset Tune. Turn the Control Ring 9 or press the Scroll Buttons 5 on the remote control to scroll through the list of presets. 10 OPERATION Operation RDS Operation RDS (Radio Data System) transmits station call signs or network information, station program type, text messages about the station or specifics of a musical selection and the correct time. RDS Tuning When an FM station is tuned in and it contains RDS data, the TU 980 will automatically display the Program Service, which is the station's call sign, in the lower display line of the Information Display, with some private stations also offering other information changing every 2 to 5 seconds. @@@@It will take 3-5 seconds for the time to appear. In the meantime the word RDS CLOCK TIME will flash in the display. @@@@A Radio Text message, containing special information from the broadcast station. Note that this message will scroll across the display to permit messages longer than the positions in the display.

It will take 3 seconds for the text message to appear, in the meantime the word RDS RADIO TEXT will flash in the display. If no Radio Text is available, the display will show the Program Service (Station Name). · Traffic Announcement. When selected, TRAFFIC ANNOUNCE will blink for 3 seconds. @@· The station's frequency. @@@@If you receive a partial message or see any RDS indicator going on and off, try slowly adjusting the antenna to improve the signal strength or tune to another, stronger, RDS station. Program Search (PTY) A major benefit of RDS is its ability to encode broadcasts with Program Type (PTY) codes that indicate the type of material being broadcast. The following list shows the abbreviations used to indicate each PTY along with an explanation of the PTY: · NEWS: News · CURRENT AFFAIRS: Current Affairs · INFORMATION: Information · TRAFFIC: Traffic information · SPORT: Sport · EDUCATION: Education · DRAMA: Drama · CULTURES: Culture · SCIENCE: Science · VARIED SPEECH: Varied · POP MUSIC: Pop Music · ROCK MUSIC: Rock Music · EASY LISTENING: Easy Listening Music · LIGHT CLASSICS M: Light Classical Music · SERIOUS CLASSICAL: Serious Classical Music · OTHER MUSIC: Other Music · WEATHER & METR: Weather · FINANCE: Finance · CHILDREN'S PROGS: Children's Programmes · SOCIAL AFFAIRS: Social Affairs · RELIGION: Religion · PHONE IN: Phone In · TRAVEL & TOURING: Travel · LEISURE & HOBBY: Leisure · JAZZ MUSIC: Jazz Music · COUNTRY MUSIC: Country Music · NATIONAL MUSIC: National Music · OLDIES MUSIC: Oldies Music · FOLK MUSIC: Folk Music · DOCUMENTARY: Documentary · ALARM TEST: Alarm Test · ALARM-ALARM !: Alarm You may search for a specific Program Type (PTY) by following these steps: 1.



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Press and hold the RDS Button 43 until the Information Display will show RDS PROGRAM TYPE. 2.

Turn the Control Ring on the front panel to scroll through the list of program types. Once you have found the program type you would like to listen to, press the Select Button A. 3. Turn to Control Ring again to start the PTY Search. When a station is tuned, the search will stop and the display will show the station's "Call Letters" or other "Program Service" information.

To turn off the PTY Search at any time, press the RDS Button again. NOTE: Many stations do not transmit a specific PTY. The display will stay blank when such a station is selected and PTY is active. Processor Reset In the rare case where the unit's operation or the displays seem abnormal, the cause may involve the erratic operation of the system's memory or microprocessor. To correct this problem, first unplug the unit from the AC wall outlet and wait at least three minutes.

After the pause, reconnect the AC power cord and check the unit's operation. If the system still malfunctions, a system reset may clear the problem. To reset the TU 980, press and hold the Function/FM Mode Button 3 for 5 seconds, until the Information Display shows FACTORY RESET. Note that when the system is reset, all tuner presets will be lost and 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 your dealer or an authorized Harman Kardon service center OPERATION 11 ENGLISH Troubleshooting Guide This unit is designed for trouble-free operation. Most problems users encounter are due to operating errors. If you have a problem, first check this list for a possible solution. If the problem persists, consult your authorized Harman Kardon Service Center. If the problem is.

.. No lights appear when System Power button is pressed No sound is heard Make sure that the... Unit is plugged into a live outlet. Make sure the outlet is active. Tune to an active station. Check for correct amplifier settings. Check the connections and wires.

Use a more directional antenna. Place the unit farther away from these appliances. Install noise filters on the appliances. Check that antenna is connected. Ensure that DAB coverage exists in your area.

This may occur if a broadcaster changes the label of a service or removes a label whilst you are listening to it. Try to retune to this station, using the Autotune procedure. Sound distorts, particularly in stereo mode. Intermittent or continuous buzzing or hissing. Display says 'No stations Available' Display has gone blank or says 'service off air' 12 TROUBLESHOOTING GUIDE Technical Specifications FM Section Frequency Range Signal-to-Noise Ratio Presets 87. 50 MHz to 108.00 MHz (50 kHz steps) 65 dB (Mono) 60 dB (Stereo) 30 ENGLISH TECHNICAL SPECIFICATIONS 13 Section Frequency Range Signal-to-Noise Ratio Presets 522 kHz to 1620 kHz (9 kHz steps) 35 dB 30 DAB Section RF Section Band III, 174 MHz - 240 MHz Band L, 1452 MHz - 1492 MHz Input: 50 Ohm, nominal Max signal: -3 dBm typ Sensitivity: -96 dBm typ Adjacent Channel Rejection: 35dB typ 2 line by 16 character DOT Matrix 99 Stereo, 2.5V P-P 48 kHz sample rate 16 bit sample resolution IEC60958 Compliant 48 kHz sample rate 24 bit sample resolution Display Presets Audio Output Optical S/PDIF General Power Requirement Power Consumption 3 W (standby) 220-230 V AC, 50/60 Hz 11 W Dimension (Max) Width Height Depth Weight 442 mm 63 mm 334 mm (350 mm with DAB antenna) 3.4 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 and Power for the Digital Revolution are registered trademarks of Harman Kardon, Incorporated 250 Crossways Park Drive, Woodbury, New York 11797 www.harmankardon.com Harman Consumer Group, Inc.: 2, Route de Tours, 72500 Château-du-Loir, France © 2008 Harman Kardon, Incorporated Part CQX1A1324Z .



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