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You can read the recommendations in the user guide, the technical guide or the installation guide for HARMAN KARDON AVR 70. You'll find the answers to all your questions on the HARMAN KARDON AVR 70 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

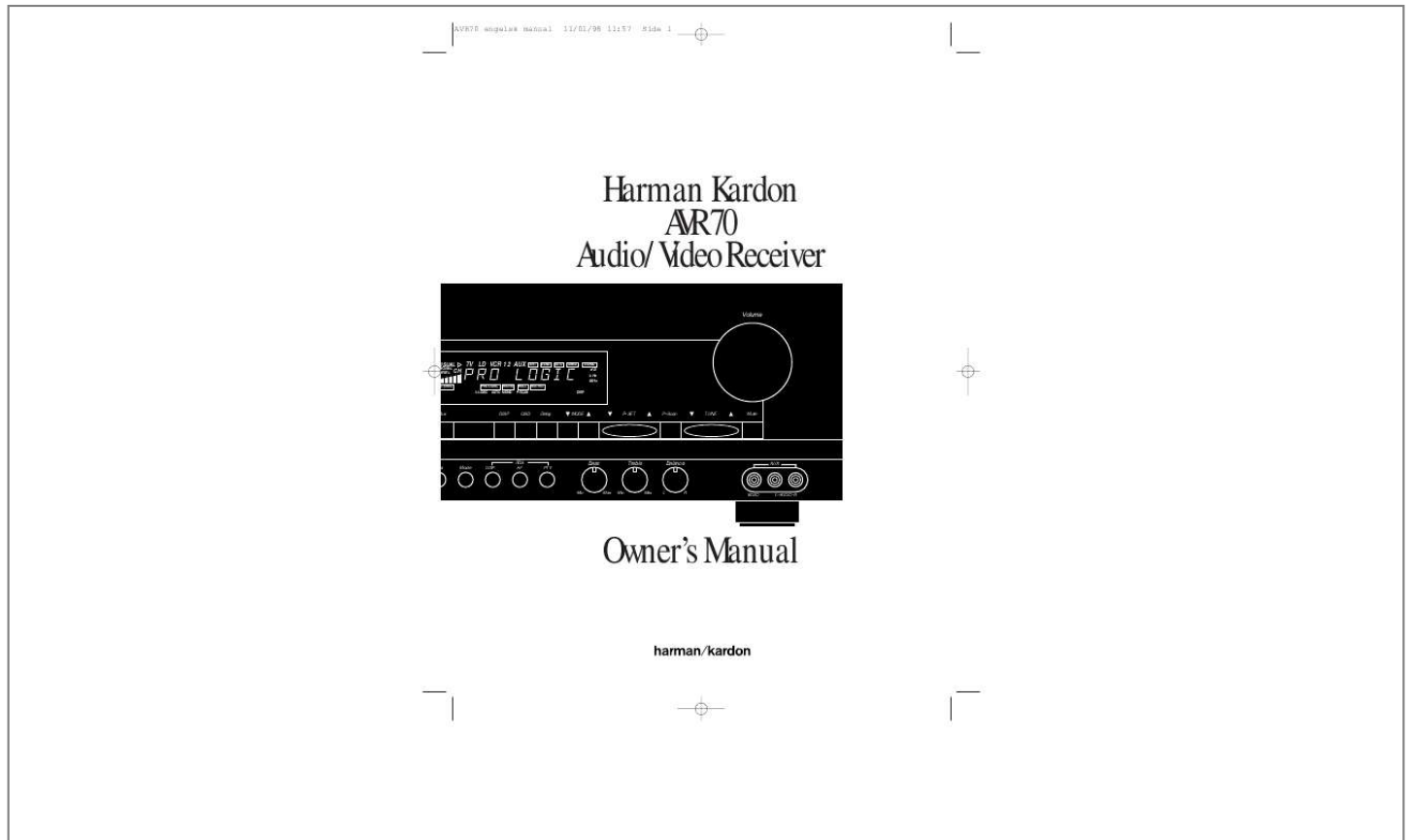
User manual HARMAN KARDON AVR 70

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Manual abstract:

R 8OHMS FM (75) OUT TAPE1 IN IN LD LD CENTER FRONT OUT REMOTE CONT. S-VIDEO SUB WOOFER R SPEAKERS L IN 8OHMS CD L R AUDIO L R TV TV VIDEO μñ å FM Antenna AM Antenna ç Tape 1 Out Tape 1 In é Tape 2 Out Tape 2 In © CD IN ø Front R î Front L Center ° Surround R ¬ Surround L μ Pre-Outs ñ Subwoofer Pre-Out ø Remote IR Out Remote IR In oe Unswitched AC Outlet ® Switched AC Outlet β Power Cable Rear Panel Video Connections TV MONI ANTENNA AM GND FM (75) L H G B A M K R OUT VCR2 OUT IN OUT VCR2 IN TAPE2 IN OUT VCR1 OUT IN OUT VCR1 IN TAPE1 IN LD LD CD L AUDIO R TV TV Q P J I E D F C O N L PRE OUT S-VIDEO CENTER 8OHMS R FRONT L SURR. R 8OHMS AC OUTLETS 230V 50/60Hz) SURR. L CENTER FRONT OUT REMOTE CONT. R SPEAKERS L IN 8OHMS SWITCHED UNSWITCHED VIDEO SUB WOOFER A VCR 1 Audio In B VCR 1 Audio Out C VCR 1 Video In D VCR 1 Video Out E VCR 1 S Video Out F VCR 1 S Video In G VCR 2 Audio In H VCR 2 Audio Out I VCR 2 Video In J VCR 2 Video Out K TV Audio In L TV Video In M LD Audio In N LD Video In O LD S Video In P TV Monitor Video Out Q TV Monitor S Video Out AVR70 engelsk manual 11/01/98 11:57 Side 5 Remote Control x Sending y Learning a d Use Learn Main Power OFF ON Source Power OFF TV ON b MOVIE STEREO P/L 3 ST LD VCR1 DELAY MATRIX HALL e m o n k j i 1 ABC 2 DEF 3 G HI p c z `l q r s t VCR2 AUX AM/FM CD Tape1(MON) Tape2 REC DISC DECK ANT. PTY 4 JKL 5 MNO 6 PQR 7 S TU 8 VWX 9 YZ _ AF MEMO 0 CLEAR P-SCAN CHANNEL/SKIP TUNE/SEARCH MUTE STOP h a Use/Learn b Main Power c Source Selection d Source Power e Surround Mode Selection f Main Volume g TV Volume h Mute i Transport Controls j Tune/Search & Fast Forward k Channel/Skip l Disc/Deck/Ant m Number Keys n P-Scan o Memo p Delay q Menu Controls r Select s Screen Display t Panel Display u Test Noise v Speaker Select w Level Adjust x Sending LED y Learn LED z RDS PTY `RDS AF SELECT SCREEN SPEAKER DISPLAY PANEL DISPLAY ADJUST VOLUME f TEST NOISE TV MAIN RDS u v w g AVR70 engelsk manual 11/01/98 11:57 Side 6 Table of Contents Introduction

.....
.....

..... 1 Features .

.....
.....
.....

..... 1 Safety Information

.....
.....

..... 2 Unpacking and Installation

..... 3 Conventions.

..... 3 Front Panel Controls

... 4 Front Panel Information Display

.....
.. 5 Rear Panel Audio & Systems Connections

.....
.. 6 Rear Panel Video Connections

.....
.. 7 Remote Control Functions

.....
... 89 Installation, Set Up and Configuration
.. 1011 Remote Control Programming and Operation

1213 System Configuration

.....
..... 1416 Basic Operation.

.....
.....
.....
.....
..... 1722 Source Selection

.....
.....
.....

17 Volume Control

.....
.....

..... 17 Surround Mode Selection

..... 1718 TV Auto Function

.....
.....
.....

.. 18 Tuner Operation

.....
.....

... 1820 RDS Operation

.....
.....

2122 On Screen Display

.....

..... 2324 Advanced Functions

.....
.....

..... 2526 Audio/Video Simulcast

.....
.....

..... 25 Delay Time Adjust

.....
.....

.. 25 Surround Mode Chart

.....

..... 26 Troubleshooting Chart

.....
.....
.....

.. 27 Technical Specifications

.....
.....

..... 28 AVR70 engelsk manual 11/01/98 11:57 Side 1 Introduction 1 ENGLISH Congratulations! With the purchase of a Harman Kardon AVR70 you are about to begin many years of listening enjoyment. The AVR70 has been custom designed to provide all the excitement and detail of movie soundtracks and every subtle nuance of musical selections. While complex digital systems are hard at work within the AVR70 to make all of this happen, hook-up and operation are simple. Color keyed connections, a comprehensive remote control and on screen menus make the AVR70 easy to use.

To obtain the maximum enjoyment from your new receiver we urge you to take a few minutes to read through this manual. This will ensure that connections to speakers, source playback units and other external devices 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 AVR70 is able to deliver. If you have any questions about this product, its installation or operation, please contact your retailer or custom installer. They are your best local source of information. Description and Features The AVR70 is a full featured A/V receiver, incorporating a wide variety of listening options. In addition to standard Dolby® Pro Logic™ processing, the AVR70 uses Digital Signal Processing to provide other surround modes. A total of five audio/video inputs, some with both composite and "S" video, as well as three additional audio only inputs are selected through a learning remote control and an easy to read front panel display or on screen graphics through a TV monitor. The AVR70's powerful amplifier uses traditional Harman Kardon High Current design philosophies to meet the wide dynamic range of any program selection. Harman Kardon invented the high fidelity receiver over forty years ago.

With state of the art circuitry and time honored circuit designs, the AVR70 is one of the finest receivers ever offered by Harman Kardon. s Digital Signal processing for precise surround decoding ProLogic, Dolby 3 Stereo and three other surround modes screen menu displays remote control and "S" video s Dolby s On s Learning s Composite switching s Preamp output for ALL channels permits ease of expansion Auto" function simplifies remote operation of the AVR70 and a TV set Programme Information System s "TV s RDS AVR70 engelsk manual 11/01/98 11:57 Side 2 ENGLISH Safety Information 2 Important Safety Information Verify Line Voltage Before Use Your AVR70 has been designed for use with 220240 volt AC current. Connection to a line voltage other than that for which it is intended can create a safety and fire hazard, and may damage the unit. If you have any questions about the voltage requirements for

your specific model, or about the line voltage in your area, contact your selling dealer before plugging the unit into a wall outlet. Do Not Use Extension Cords To avoid safety hazards, use only the power cord attached to your unit.

We do not recommend that extension cords be used with this product. As with all electrical devices, do not run power cords under rugs or carpets or place heavy objects on them. Handle the AC Power Cord Gently When disconnecting the power cord from an AC outlet, always pull the plug, never pull the cord.



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If you do not intend to use the unit for any considerable length of time, disconnect the plug from the AC outlet (Attention: Than memory may be lost after some days). Do Not Open The Cabinet There are no user serviceable components inside this product.

Opening the cabinet may present a shock hazard, and any modification to the product will void your guarantee. If water or any metal object such as a paper clip, wire or a staple accidentally falls inside the unit, disconnect it from the AC power source immediately, and consult an authorized service station.

Installation Location s To assure proper operation, and to avoid the potential for safety hazards, place the unit on a firm and level surface. When placing the unit on a shelf, be certain that the shelf and any mounting hardware can support the weight of the product. s s Do not obstruct the ventilation slots on the top of the unit, or place objects directly over them. Make certain that proper space is provided both above and below the unit for ventilation. If this product will be installed in a cabinet or other enclosed area, make certain that there is sufficient air movement within the cabinet. Under some circumstances a fan may be required. Do not place the unit directly on a carpeted surface. Avoid installation in extremely hot or cold locations, or an area that is exposed to direct sunlight or heating equipment.

Avoid moist or humid locations. s Cleaning When the unit gets dirty, wipe it with a clean, soft dry cloth. If necessary, wipe it with a soft cloth dampened with mild soapy water, then a fresh cloth with clean water. Wipe dry immediately with a dry cloth. NEVER use benzene, aerosol cleaners, thinner, alcohol or any other volatile cleaning agent. Do not use abrasive cleaners, as they may damage the finish of metal parts. Avoid spraying insecticide near the unit. Moving

The Unit Before moving the unit, be certain to disconnect any interconnection cords with other components, and make certain that you disconnect the unit from the AC outlet. s s AVR70 engelsk manual 11/01/98 11:57 Side 3 Safety Information 3 ENGLISH Unpacking and Installation The carton and shipping materials used to protect your newstations programmed into the receiver's preset memory. \$ P-Scan: Press this button to automatically scan through the FM or AM stations preset into the receiver's memory.

Press the button again to stop the scan when the tuner is at the desired station. % Tune: Press these buttons to manually or automatically scan up / or down through the FM or AM bands. ^ Mute: Press this button to cut the output to the speakers. Press it again to return to the previous volume level. & Volume

Control: Turn the knob clockwise to increase volume, counterclockwise to decrease the volume.

Note that approximately two revolutions of the knob are required to go from no output to maximum volume. * Power: Press this button to turn the unit on or off. NOTE: When the Power Switch is in the "OFF" position, the unit is in a "Standby" condition and is NOT disconnected from the AC mains supply. (

Headphone Jack: Plug standard stereo headphones into this jack for private listening. NOTE: When the headphones are in use the output to the speakers is muted and the surround mode is automatically switched to STEREO.

When the headphones are removed from the jack, sound to the speakers is restored and the unit returns to the previous sound mode. Ó Memo: The memo button is used to enter stations to the tuner's preset memory in either the manual or automatic modes. It is also used in clearing the memory and entering the sleep timer period. Ô Clear: The clear button is used to cancel tuning, memory input or when clearing the unit's memories. FM Mode: Press this button to

select the receiving mode for FM stations (Stereo/Mono/Auto). Õ RDS Display: When a station transmitting RDS data is tuned, press this button to view the tuning frequency. Ú RDS AF: The button is used to search for stations transmitting a specific programme that may offer better reception than the currently tuned station. Û RDS PTY: Press this button to view the programme type (PTY) when an RDS station is tuned. It is also used to initiate a search for RDS

stations transmitting a specific programme type. Ü Bass: This knob adjusts the tone of low frequency sounds.

Turn it to the right to boost bass frequencies or to the left to cut bass frequencies. i Treble: This knob adjusts the tone of high frequency sounds. Turn to it the right to boost high frequencies or to the left to cut high frequencies. ^ Balance: This knob adjusts the balance between the front left and right speakers. ~

Front Panel Inputs: Audio or Video sources connected to these jacks may be selected by pressing the Aux button 8. AVR70 engelsk manual 11/01/98 11:57 Side 5 Front Panel Information Display 5 ENGLISH ; "Visual" Indicator: These indicators display which video source is being fed to the video monitor

output. TM Test: This indicator flashes when the output levels are being set using the built in test signal generator. £ Memo: This indicator flashes when the Memo button is pressed when entering presets and other information into the tuner's memory. ¤ Auto: This indicator signifies that the Automatic Receiving

mode (Stereo/Mono) is in use for FM broadcasts. When the tuner is in use, the main Information Display will show the preset channel number, if any, the frequency band and the station frequency.

Indicators at the right side of the display show kHz when an LW or MW station is tuned or MHz when an FM station is tuned. · Tuner Frequency Indication: ° Main Information Display: This Tuned: This indicator lights when an AM or FM station is properly tuned and locked. § Stereo: This indicator lights when an

FM station is broadcasting in stereo. ten digit display shows messages relating to the status, input source, surround mode, tuner, volume level or other aspects of the unit's operation. ☒ Auto Memo: This indicator flashes when the tuner is automatically scanning for stations and entering them into the preset

memory.

display the currently selected surround mode. ¶ Volume Indication: The last two indicators on the information display indicate the volume level. Note that 0dB is the reference level, not an indication that there is no output. , DISP: This indicator lights when the FL display has been turned off using the Display

button) to remind you that the unit is still turned on. / P-Scan: This indicator flashes when the stations programmed into the tuner memory are being automatically reviewed.

< Mode Status: These indicators > Signal Level Indication: This is a visual indication of the strength of a radio station signal. The more bars visible, the stronger the station. AVR70 engelsk manual 11/01/98 11:57 Side 6 ENGLISH Rear Panel Audio and System Connections 6 Front R: Connect these terminals

to the front right speaker.



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î Front L: Connect these terminals to the front left speaker. Center: Connect these terminals to the center speaker. â FM Antenna: Connect an indoor or external FM antenna to these terminals. AM Antenna: Connect the AM loop antenna supplied with the receiver to these terminals. If an external AM antenna is used, make connections to the AM and GND terminals in accordance with the instructions supplied with the antenna. ç Tape 1 Out: Connect these jacks to the RECORD/INPUT jacks of an (3 head) audio recorder. Tape 1 In: Connect these jacks to the PLAY/OUT jacks of the same audio recorder.

é Tape 2 Out: Connect these jacks to the RECORD/INPUT jacks of a second audio recorder. Tape 2 In: Connect these jacks to the PLAY/OUT jacks of a second audio recorder. © CD IN: Connect these jacks to the output of a compact disc player or CD changer. ° Surround R: Connect these terminals to the right surround speaker. ¬ Surround L: Connect these terminals to the left surround speaker. µ Pre-Outs: If external power amplifiers are used for any channels, connect these jacks to the inputs of the amplifier. ñ Subwoofer Pre-Out: Connect this jack to the line level input of a powered subwoofer. If an external subwoofer amplifier is used, connect this jack to the subwoofer amplifier input. ø Remote IR Out: This connection permits the IR sensor in the receiver to serve other remote controlled devices. Connect this jack to the "IR IN" jack on Harman Kardon or other compatible equipment.

Remote IR In: If the AVR70's front panel IR sensor is blocked due to cabinet doors or other obstructions, an external IR sensor may be used. Connect the output of the sensor to this jack. oe Unswitched AC Outlet: This outlet may be used to power any AC device. The power will remain on at this outlet regardless of whether the AVR70 is on or off. ® Switched AC Outlet: This outlet may be used to power any device that you wish to have on when the unit is turned on.

NOTE: The power consumption of the device plugged into each of these outlets should not exceed 50 watts. ß Power Cable: Connect the AC plug to a non-switched AC wall outlet. AVR70 engelsk manual 11/01/98 11:57 Side 7 Rear Panel Video Connections 7 ENGLISH A VCR 1 Audio In: Connect these jacks to the audio PLAY/OUT jacks of a VCR. B VCR 1 Audio Out: Connect these jacks to the RECORD/IN audio jacks of a VCR. C VCR 1 Video In: Connect this jack to the composite video PLAY/OUT jack of a VCR.

D VCR 1 Video Out: Connect this jack to the composite video RECORD/IN jack of a VCR. E VCR 1 S Video Out: Connect this jack to the "S" video RECORD/IN jack of a VCR. F VCR 1 S Video In: Connect this jack to the "S" video PLAY/OUT jack of a VCR. G VCR 2 Audio In: Connect these jacks to the audio jacks PLAY/OUT of a second VCR. H VCR 2 Audio Out: Connect these jacks to the audio RECORD/IN jacks of a second VCR. I VCR 2 Video In: Connect this jack to the composite video PLAY/OUT jack of a second VCR. J VCR 2 Video Out: Connect this jack to the composite video RECORD/IN jack of a second VCR. K TV Audio In: Connect the audio outputs of a TV, cable converter or satellite receiver to these jacks. L TV Video In: Connect the composite video output of a TV, cable converter or satellite receiver to this jack. The signals received at this jack are also used to trigger the "TV AutoOn" feature.

M LD Audio In: Connect the audio output of a laser disc player to these jacks. N LD Video In: Connect the composite video output of a laser disc player to this jack. O LD S Video In: Connect the "S" video output of a laser disc player to this jack. P TV Monitor Video Out: Connect this jack to the composite video input of a TV monitor or video projector to view the on screen control menus and output of the receiver's video switcher. Q TV Monitor S Video Out: Connect this jack to the S video input of a TV monitor or video projector to view S video sources selected by the receiver's video switcher. AVR70 engelsk manual 11/01/98 11:57 Side 8 ENGLISH Remote Control Functions 8 h Mute: Press this button to temporarily cut the audio output of the receiver. Press it again to return to the previous volume level. i Transport Controls: These buttons control the tape or disc motion of the last playback source selected with the Source Selection buttons c. Use them as you would the Play, Stop, Pause, Reverse Play and Record buttons on any VCR, CD, cassette deck or LD remote control. j Tune/Search & Fast Forward: (These buttons have multiple functions, which vary according to the input device selected.

) a. When the TUNER has been selected, these buttons are used to tune stations. b. When CD, LD, Tape or VCR is the input source, these buttons act as the Fast Scan Forward -- or Fast Scan Reverse , controls. k Channel/Skip: (These buttons have multiple functions, which vary according to the input device selected.

) a. When the TUNER has been selected, these buttons will scroll up · or down through the stations that have been programmed in the preset memory. b. When TV or VCR is selected, they are the channel up · or channel down tuning buttons. c.

When CD or LD is selected these buttons act as forward and reverse "Skip" buttons to move to the next track or chapter on the disc. d. When a compatible Harman Kardon cassette player has been selected as Tape 1 or Tape 2, these buttons move the tape forward · or backwards to the next selection using the Music Scan feature. a Use/Learn: This switch selects the operation mode of the remote control. Slide it to the left for normal operation. Slide it to the right when the remote is being programmed. b Main Power: Press these buttons to turn the unit on or off. c Source Selection: Pressing one of these buttons selects the input source that will be listened to through the receiver. When a source is selected the remote's transport and numeric number buttons will also transmit the commands needed to control that machine. d Source Power: Press these buttons to control power for the last source device selected.

This is effective only for devices with remotable power (not TU930, HD730), for Tapes only with input Tape 1 (Monitor) unless programmed otherwise. e Surround Mode Selection: Press one of these buttons to select a surround mode for the current listening session. f Main Volume: These buttons control the unit's volume. Note that all channels are controlled simultaneously. g TV Volume: These buttons adjust the volume for TV using the remote control codes programmed into the remote for a TV set or cable box. These buttons control the TV set only, regardless of which source is selected. This enables you to control the audio level of a TV set even when the receiver is not in use. l Disc/Deck/Ant: (These buttons have multiple functions, which vary according to the input device selected.) a. When CD is selected and the unit is a CD changer, these buttons will change to the next disc or previous disc Â.



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b. When Tape 1 or Tape 2 is the input source, and the tape machine is a dual cassette deck, these buttons will switch between the "A" and "B" sides if programmed correspondingly. c. When VCR 1 or VCR 2 is the input source, these buttons switch between tape and TV-tuner as the VCR's output. d. When TV is the input source, these buttons may switch between video input sources or antenna/video, depending on the TV model. e. When LD is the input source, these buttons will switch the side being played from "A" to "B" on compatible dual side players. m Number Keys: These buttons serve as a ten button numeric keypad to enter tuner preset positions. They are also to be used to select channel numbers when TV has been selected on the remote, or to select track numbers on a CD or LD player, if CD or LD has been selected by the remote.

The letters below the buttons are used to enter information for tuner station names. NOTE: The 0 button has a dual function. It also serves as the CLEAR button for use in programming the tuner or clearing the system memory. AVR70 engelsk manual 11/01/98 11:57 Side 9 Remote Control Functions 9 ENGLISH n P-Scan: Press this button to automatically scan through the stations preset into the tuner memory. Press the button again to end the scan when the tuner stops at the desired station. o Memo: The memo button is used to enter stations to the tuner's preset memory in either the manual or automatic modes. It is also used in the process of clearing the memory. p Delay: This button controls the amount of sound delay to the rear (surround) channels. Press it to increase the delay in the steps shown in the main Information Display or on-screen graphics. q Menu Controls: These buttons control the action of the cursor or the selection of menu items when the receiver is being configured using the setup menus.

r Select: This button chooses a menu and enters settings to the receiver's memory during system configuration. s Screen Display: Press this button to activate the on screen menu system. t Panel Display: Press this button to turn off all displays and indicators in the Information Display except for a small D I S P indication in the lower right corner of the display. Press the button again to turn the display back on. Note that the display will briefly illuminate when a command is sent to the unit from the front panel or remote, even though the display is turned off. u Test Noise: Press this button to begin calibration of the output level for each channel. A test signal will immediately be heard from the left front speaker and the TEST indicator TM will flash. v Speaker Select: When setting the system output levels, this button selects the speaker position being adjusted. Press it once to advance to the next speaker after each position is adjusted. w Level Adjust: When setting the system output levels, press these buttons in increase or decrease the output level. x Sending LED: This indicator should flash any time a button is pressed to confirm that a command is being sent to the receiver or another unit.

If the light is dim or does not illuminate when a button is pressed the batteries in the remote should be replaced. y Learn LED: This indicator will illuminate when a button on the remote is being programmed with signals from another remote during the "learning" mode. The light will go out when the signal is received and memorized. z RDS PTY: Press this button to view the Programme Type information for stations transmitting RDS data. This button is also used for PTY Auto Search functions.

RDS AF: This button initiates a search of alternative frequencies to find an eventually stronger signal for the station currently selected. AVR70 engelsk manual 11/01/98 11:57 Side 10 ENGLISH Installation, Set Up & Configuration 10 System Installation After unpacking the unit, and placing it in on a solid surface capable of supporting its weight, you will need to make the connections to your audio and video equipment. These steps need to be done only when the receiver is first installed, or when a change is made to the input source equipment. Audio Input and Output Connections Use the "Audio and Systems Connections" Diagram in the inside front cover as a guide to connecting audio components and speakers to the rear panel. We recommend that you use high quality cables when making connections to source equipment and recorders to preserve the quality of the signals.

NOTE: When making connections to audio source equipment or speakers it is always a good practice to unplug the unit from the AC wall plug. This prevents any possibility of accidentally sending audio or transient signals to the speakers that may damage them. 1. For playback only sources, such as a CD player, CD changer, external phono preamp or external digital to analog converter, connect the output jacks of the player to the appropriately labeled inputs on the rear panel. © NOTE: When the source device has both fixed and variable audio outputs it is best to use the fixed output unless you find that the input to the receiver is so low that the sound is noisy, or high that the signal is distorted. 2. When connecting recording devices such as cassette recorders, open reel tape decks, DCC, DAT or MD, connect the PLAY/OUT jacks of the recorder to the IN jacks. Connect the RECORD/IN jacks on the recorder to the OUT jacks çé.

3. Assemble the AM Loop Antenna supplied with the unit as shown below.

Connect it to the AM and GND screw terminals. Regardless of the brand of cable selected, we recommend that you use a cable constructed of fine, multi-strand copper with a gauge of 14 or larger. Remember, that in specifying cable, the lower the number, the thicker the cable. Cable with a gauge of 16 may be used for short runs of less than ten feet. We do not recommend that you use cables with an AWG equivalent of 18 or higher due to the power loss and degradation in performance that will occur. Cables that are run inside walls should have the appropriate markings to indicate listing with appropriate testing agency standards. Questions about running cables inside walls should be referred to your installer or electrical contractor. When connecting wires to the speakers, be certain to observe proper polarity. Remember to connect the "negative" or "black" wire to the same terminal on the receiver and the speaker.

Similarly, the "positive" or "Red" wire should be connected to the like terminal on the AVR 70 and speaker.

NOTE: While most speaker manufacturers adhere to an industry convention of using black terminals for negative and red ones for positive, some manufacturers may vary from this configuration. To assure proper phase, and optimal performance, consult the identification plate on your speaker, or the speaker's manual to verify polarity. If you do not know the polarity of your speaker, ask your dealer for advice before proceeding, or consult the speaker's manufacturer.



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4. Connect an FM antenna to the FM (75 ohm) connection \hat{a} .

The FM antenna may be an external roof antenna, an inside powered or wire lead antenna, or a connection from a cable TV system. Note that if the antenna or connection uses 300 ohm twin lead cable, you must use the 300 ohm to 75 ohm adapter supplied with the unit to make the connection. 5. Connect the front, center and surround speaker outputs \hat{r} to the respective speakers. To assure that all the audio signals are carried to your speakers without loss of clarity or resolution, we suggest that you use high quality speaker cable.

Many brands of cable are available, and the choice of cable may be influenced by the distance between your speakers and this receiver, the type of speakers you use, personal preferences and other factors. Your dealer or installer is a valuable resource to consult in selecting the proper cable. AVR70 engelsk manual 11/01/98 11:57 Side 11 Installation, Set Up & Configuration 11 ENGLISH 6. Connections to a subwoofer are made via a line level audio connection from the receiver's jack \hat{n} to the line level input of a subwoofer with a built in amplifier. If a passive subwoofer is used, the connection first goes to a volume controlled power amplifier, which will be connected to one or more subwoofer speakers. Video Input and Output Connections Video connections are made in a similar fashion to those for audio components. Again, the use of high quality interconnect Video cables is recommended to preserve signal quality. 1. Connect the VCR's audio, video and "S" Video OUT jacks to the VCR IN jacks ACFG1 on the rear panel. The audio, video and "S" video IN jacks on the VCR should be connected to the VCR OUT jacks BDEHJ on the AVR70.

2. Connect the audio and video outputs of a satellite receiver, cable TV converter or television set to the TV jacks KL. 3. Connect the audio, video and "S" video outputs of a Laser Disc player to the LD jacks MNO. 4. Connect the TV MON PQ jacks on the receiver to the video or "S" Video inputs of your television monitor or video projector. 5. There is no mix or change between "Video" (composite) and "S" Video signals inside the AVR70 and no system selection. If watching to both signal systems, both TV MON jacks P and Q must be connected to the TV Monitor. The "On Screen" menus are visible only on the "Video" Output, not on "S"Video.

System and Power Connections External Audio Power Amplifier Connections The AVR70 is designed for use with external power amplifiers too. These connections are easy to make during an initial installation, or at a later date should you choose to upgrade your system. Using the PRE OUT jacks μ , connections may be made to external power amplifiers. Connect the PREOUT of the channels to be connected to external amplifiers to that amplifier's inputs. Volume will still be controlled by this receiver.

NOTE: When external power amplifiers are used, the center channel speakers should receive at least as much amplifier power as the front left and right speakers. Remote Control Expansion If the receiver is placed behind a solid or smoked glass cabinet door, the obstruction may prevent the remote sensor from receiving commands. In this event, an optional remote sensor may be used. Connect the output of the remote sensor to the Remote Cont. IN jack. AC Power Connections This unit is equipped with two accessory AC outlets. They may be used to power accessory devices, but they should not be used with high current draw equipment such as power amplifiers (not more than 50 W each). The SWITCHED $\text{\textcircled{C}}$ outlet will receive power only when the unit is on. This is recommended for devices that have no power switch, or a mechanical power switch that may be left in the "ON" position (as f.e. with the h/k CDP HD730). Devices with electronic power switch may only switch on to standby mode, if plugged in here. The UNSWITCHED $\text{\textcircled{O}}$ outlet will receive power as long as the unit is plugged into a powered AC outlet. Finally, when all connections are complete, plug the power cord into a non-switched AC wall outlet. Note that the ring surrounding the Power Switch * will turn amber.

You're almost ready to enjoy the AVR70! If other components are also prevented from receiving remote commands, only one sensor is needed. They may use this unit's sensor or a remote eye by running a connection from the REMOTE CONT. OUT jack ϕ to the Remote In jack on Harman Kardon or other JR-code compatible equipment. AVR70 engelsk manual 11/01/98 11:57 Side 12 ENGLISH Remote Control Programming & Operation 12 This product is equipped with a powerful remote control. As supplied, it will operate the receiver, as well as most CD players and tape decks manufactured by Harman Kardon. In addition, it is preprogrammed with the remote codes to operate VCRs, LD players and TV sets that are based on the popular RC-5 control code system. If your equipment requires different codes, it may be programmed to copy the codes from most infra red remotes. Loading Batteries The life of the batteries for the remote control is about one year in normal operation. If the green Sending x indicator does not flash when remote buttons are pushed, that is an indication that the batteries need to be replaced. Don't simply throw old batteries away but recycle only or return them to your dealer.

To change the batteries: 1. Remove the back cover by sliding it in the direction of the arrows. Remote Programming Programmable Keys Many of the buttons on the remote control may be user programmed to new functions that operate virtually any component in your system. Ten CANNOT be programmed with a new code, as they control high level functions. These keys are Main Power ON, Main Power OFF, and the eight source input keys: TV, LD, VCR 1, VCR 2, TUNER, CD, TAPE 1 and TAPE 2.

3. Close the cover until it clicks shut. NOTE: It is important that the batteries be replaced within ten minutes after the old batteries are removed to avoid losing any remote codes that have been programmed into the remote's memory. Remote Control Range The remote will operate at a range of up to 5 meters from the unit, when the batteries are fully charged. The remote will also operate at an angle of up to 30° to either side of the unit. Programmable keys are divided into two groups. Some keys may be programmed with a separate function for each of the inputs. Thus, these keys may change their code when the input source is changed. (i.e. The Play key may transmit a different code when CD is selected as opposed to when VCR is selected.) The keys that may be programmed with multiple codes are the following: All Numeric Keys (0-9) Forward Play \hat{f} Source Power On Reverse Play \hat{r} Source Power Off Stop \hat{I} Disc/Deck Record \hat{I} Disc/Deck \hat{A} Pause \pm Channel/Skip \cdot TV Volume Up / Channel/Skip TV Volume Down \boxtimes Tune/Search -- Memo Tune/Search \cdot P-Scan 2.



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Remove the old batteries and insert fresh AAA type cells. Be certain to observe the correct polarity by noting the (+) and (-) marks on both the inside of the case and on the battery cells. It is recommended that both batteries be changed at the same time.

Always point the remote transmitter at the front of the unit when issuing commands. If you find that remote commands are not being received by the remote, it may be necessary to use a remote IR sensor. AVR70 engelsk manual 11/01/98 11:57 Side 13 Remote Control Programming & Operation 13 ENGLISH

Another group of keys may only be programmed with one remote code. The code contained in these keys remains the same regardless of the source selection. WARNING: These keys transmit codes that are vital to the operation of the product. It is not recommended that they be programmed with alternative codes, as it may then be impossible to operate certain functions of the receiver. Aux Cursor Up / Pro Logic Delay Cursor Down ⌘ Dolby 3 Stereo Memo Cursor Right > Movie Screen Display Cursor Left < Matrix Panel Display Select Hall Speaker Main Volume Up / Stereo Test Noise Main Volume Down ⌘ Adjust Mute RDS PTY RDS AF 1. Slide Use/Learn a switch at the top left corner of the remote to the right so that it is next to Learn. 2. If one of the multi-function buttons is being programmed press the source button (i.

e. CD, VCR, etc.) you wish to have this function associated with. If you are programming a single function key, proceed to the next step. 3.

Press the button on the remote that is to be programmed. Note that the Learning y LED will illuminate. 4. Place the remote head to head with the remote control whose function is being learned. The two remotes should be no more than 8 inches apart.

5. Press and hold the button on the transmitting remote corresponding to the function to be memorized until the Learning LED starts to blink. When the LED goes out, release the button on the transmitting remote. The function code has been successfully captured. NOTE: If both LEDs flash during a programming operation, it indicates that the remote's memory is full or that the remote codes from the transmitting remote are not compatible with the unit's signal format.

6. Continue to program any additional remote commands required using steps 2 through 5. When you have finished programming the remote, slide the Use/Learn switch to the left so that it is in the Use position. Clearing the Remote Memory In normal operation, codes for a new device may be programmed "over" the codes that have been previously programmed into the remote. It is also possible to clear the memory for individual keys, or for the entire remote.

When a memory position is cleared, the remote will return to the original factory preset command. To clear the memory for a specific individual key location, put the Use/Learn switch in the Learn position. Press the Main Power Off b button and the button to be cleared at the same time. Both the Sending and Learning indicators will light momentarily. When the lights go out, the memory has been cleared of the user programmed code and returned to the factory preset. Return the Use/Learn a switch to the Use position when you are finished. To clear the remote's entire memory and return all keys to their factory preset commands first put the Use/Learn a switch in the Learn position. Then press the Main Power On button b and confirm that the Learning indicator y has illuminated. While continuing to press the Power On button, press and hold the Power Off b button until the Learn indicator goes off for about 3 seconds. It will then blink twice.

Then release the two buttons. This indicates that the memory has been cleared of any user programmed commands and that the original commands have been restored. @@@@ Press the ⌘ button three times until the on screen > cursor is pointing to SET UP MENU. Press SELECT r. Once the speakers have been placed in the room and connected, the final step is to enter the configuration information and balance the speaker output levels.

Before proceeding further this is a good time to review the installation section of the manual to make certain that all connections are properly made. System Settings 1. Plug the unit into an AC wall outlet and press the Power button on either the front panel * or the remote b. Note that the ring surrounding the front panel switch will turn green, and the front panel display will illuminate. 2.

Check to see that the unit is configured to the video broadcast standard in use in your country by pressing and holding the OSD button on the front panel) for more than three seconds. The front panel display will indicate the current setting. If the setting is not correct, if f.e. your picture is only black and white, press the button again until the correct standard (PAL, SECAM or NTSC) is displayed. 3. Turn on the TV connected to the receiver. Select the appropriate video input on the TV. NOTE: Although the unit will switch "S" video signals, the on screen menus control system is NOT visible on the S video output. 4.

Press any of the navigational arrow buttons or the SELECT r button on the remote to bring the MAIN MENU up on your video screen. (Figure #1) 6. At the SET UP MENU (Figure #2), set the Center Channel Mode. The on screen > cursor will already point toward this option when you select the menu. Press the < or > buttons q to choose one of these center channel options by moving the cursor: LARGE: Choose this option if you are using large size full range center channel speaker. SMALL: Choose this option if the MAIN > INPUT MENU SELECTOR center speaker is small sized. NONE: Choose this option if you are SURROUND MODE TEST TONE SET MENU UP MENU not using a center channel speaker. 7. When you have made a center channel selection, press ⌘ q to move to the next option. Note that the > cursor should point to SET UP LOCK.

8. This option enables you to lock the configuration settings. This makes it difficult for someone to inadvertently change the settings by causing the word LOCK to appear at the top of the SET UP MENU. Before any further changes can be made, the user must first go to the SET UP MENU and unlock the system. Press the < or > buttons q to choose one of these options: LOCK: Choose this option to lock the OFF Figure 1 SET UP MENU LOCKED > CENTER MODE LARGE SMALL NONE SETUP RETURN LOCK TO MAIN LOCK UNLOCK MENU Figure 2 TEST OFF TONE > ON settings as described above. UNLOCK: Choose this option to unlock the settings and enable them to be changed without going to this menu. Figure 3 AVR70 engelsk manual 11/01/98 11:57 Side 16 ENGLISH System Configuration 16 9. When you have made your choice, press ⌘ q and then SELECT r to return to the MAIN MENU. At this point the output levels for all channels will be set to a reference so that the sound level is the same from each speaker.



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This compensates for the differences between the speakers used and the distance each speaker is from your listening position.

At this point you may wish to adjust the rear channel delay time. See the Advanced Features section later in this manual for information on delay settings.

NOTE: Before setting the output levels it is critical that the front panel bass \bar{U} and treble controls i be set to their center, or "12 o'clock" position. This ensures accurate results. 10. At the MAIN MENU, press \bar{x} twice until the $>$ cursor is next to TEST TONE. Press SELECT r to continue. 11. When you press SELECT you will immediately hear a test noise from the front left speaker. The on screen display will change to a graphic representation of each of the speakers in your room, with one speaker position blinking.

(Figure #3, page 15) That speaker is the one whose level is being set. NOTE: This procedure will only operate if the AVR70 is in the PRO LOGIC, MOVIE or DOLBY3 STEREO Modes. If the test tone cannot be selected, select M E N U O F F in the M A I N M E N U and check to see which surround mode is indicated in the front panel display. If it is not one of the modes mentioned above, select one of the correct modes, and then select the M A I N M E N U point TEST TONE by pressing \bar{x} and SELECT on the remote to resume the set up. 12. While seated in the primary listening position in the center of the room, press SPEAKER v on the remote. Note that the sound should now come from the Center Channel speaker, and the icon for that speaker will flash on the screen. Use the ADJUST / and ADJUST \bar{x} buttons w on the remote to change the level of the test noise so that it appears to be equal in level to the Front Left speaker. 13. Press the SPEAKER button again, and repeat the procedure for the Front Right and Surround channels.

Each time, use the ADJUST / and ADJUST \bar{x} buttons w on the remote to change the volume level so that all speakers match, and then press SPEAKER v to move to the next channel. Subwoofers cannot be adjusted separately by the Menu system. If necessary adjust by the volume poti of the subwoofer amplifier.

NOTE: This test also serves as an opportunity to verify that all speakers are properly connected. If the sound from a speaker location does not match the location shown on the video and front panel displays, turn the AVR70 off and check the speaker wiring to make certain that the speaker is connected to the correct output terminals.

14. When all speakers appear to have an equal volume, press the $<$ button q on the remote to complete the procedure. NOTE: For a more accurate calibration of the speaker output levels perform the test outlined in steps 10 through 13 using a sound pressure level (SPL) meter. It is recommended that the output for each channel measure 75 dB (C-weighted, slow) on the meter. CONGRATULATIONS! You have completed a basic set up and you are now ready to enjoy the finest in home theater and music listening enjoyment.

AVR70 engelsk manual 11/01/98 11:57 Side 17 Basic Operation 17 ENGLISH Once the input, speaker and antenna connections have been made, and the system has been configured, the receiver is ready for operation. Note that some controls are duplicated on both the front panel and the remote control, while others appear on one or the other, but not both. To turn the unit on, press either the Power button on the front panel $*$ or Main Power ON b on the remote. When power is turned on, the receiver will return to the input source in use when the unit was last turned on. The front panel display will also illuminate to provide status indicators of the unit's operation. Source Selection To select or change the input source, press one of the Source buttons on the front panel 345678 or one of the Source buttons on the remote c . To listen to one source while you watch another, first select the video source (LD, TV, VCR1, VCR2 or Aux), and then select the desired audio source (AM/FM CD, Tape 1, Tape 2). NOTE: Unlike conventional mechanically driven volume controls, this receiver's volume is set using digital devices. This means that the volume knob has no firm stopping point at either end of its rotation. Depending on the speed with which the knob is turned, it is normal for as many as three complete rotations to be required for full travel from the loudest setting to the softest.

When the volume is adjusted, the word Master will appear in the main portion of the Information Display, followed by a two digit number. The number indicates the variation from the reference point established when the output levels are set. Surround Mode Selection One of the most important features of the AVR70 is its ability to reproduce a full multichannel surround soundfield from both surround encoded programs, and standard stereo programs. Selection of a surround mode is based on personal taste, as well as the type of program source material being used. For example, motion pictures bearing the logo of one of the major surround encoding processes, such as Dolby Surround, DTS StereoTM or UltraStereo may be played in either the Dolby Pro Logic, Dolby 3 Stereo or Movie Surround Modes. Other mode selections are described elsewhere in this manual. NOTE: Once a program has been encoded with surround information, it retains the surround matrix as long as the program is broadcast in stereo. Thus, movies with surround sound will carry surround information when they are broadcast via conventional TV stations, cable, pay TV and satellite transmission in stereo. In addition, a growing number of made for television programs, sports broadcasts, radio dramas and music CDs are also recorded in surround sound. You may obtain a list of these programs and discs from Dolby Laboratories Licensing Corp.

, Wootton Bassett, Wiltshire, SN4 8QJ, England. Surround modes may be selected in one of three ways. From the front panel, use the Mode/ or Mode \bar{x} buttons $@$ to scroll through the list of modes. The selected mode will appear in large letters in the front panel display, and in a two line reminder on the video screen. Once the selection is made, the mode will continue to appear in a smaller indicator at the bottom of the front panel display.

From the remote, modes may be selected by simply pressing the button that corresponds to the desired mode. e Modes may also be selected using the on screen display. Press SELECT r on the remote to display the MAIN MENU. Then press \bar{x} q once so that the on screen cursor is next to SURROUND MODE. Press SELECT r again to move to the next menu.

The audio source will be displayed on the Information Display, while the video source will be displayed in the upper left corner of the Fluorescent Display next to the word VISUAL j . Volume Control The AVR70's volume is controlled using either front panel knob & or the Main Volume buttons f on the remote. AVR70 engelsk manual 11/01/98 11:57 Side 18 ENGLISH Basic Operation 18 At the SURROUND MODE MENU, press the $<$ or $>$ buttons r until the desired mode name appears on the screen.



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Press \square twice until the > cursor is next to RETURN TO MAIN MENU and press SELECT. At the main menu select MENU OFF and press SELECT to exit the menus. A different mode may be selected for audio and video sources. Once a mode has been selected, it will be attached to those sources in memory. Thus, you may select PRO LOGIC as the mode for video and HALL SURROUND for audio. After the initial selections are made, the unit will automatically return to your preferred mode for each type of input whenever it is chosen. TV Auto Function With the increasing sophistication of today's home entertainment systems, it often takes numerous remote controls to turn a system on.

This receiver's unique "TV Auto" feature simplifies that task and greatly reduces the actions needed to bring your entire system to life. If a video feed is connected to the TV VIDEO IN jack L during the installation, that signal is used to trigger system turn on. Even when the receiver is turned off, the presence of a signal at the TV VIDEO jack will automatically cause the receiver to turn on. As long as the signal is present, the receiver will remain on. When the TV or other source is turned off, the receiver will automatically return to a standby ("off") mode within five minutes. Note that if the receiver is turned on automatically by this function, it will remain on if another source is subsequently selected. In that case, the receiver needs to be turned off manually even if the TV source is turned off. Tuner Operation The FM/AM tuner is extremely flexible, and offers a number of options. The following instructions will enable you to take advantage of the tuner's many features. To select tuner operation, press the AM/FM button 3 on the front panel, or the remote c.

Press the button again to select the desired frequency band if required. Manual up/down tuning is accessible by pressing the TUNE button % either up / or down \square or the Tune/Search , and Tune/Search -- j buttons on the remote. Pressing these buttons once increases or decreases the station frequency by one step. Holding the buttons down quickly scans for the next station. Holding the tune buttons for a few seconds and then releasing them, automatically will set the tuner to the next station with an acceptable signal.

When manually tuning stations, observe the SIGNAL LEVEL indicator > and the TUNED indicators. The more bars visible on the SIGNAL LEVEL indicator, the stronger the signal and the better the station will sound. A station is properly tuned when the TUNED indicator is illuminated. Tuner Mode Pressing the FM Mode button on the front panel selects how a station will be received. When the button is pressed so that the AUTO ϵ indicator is lit, stations broadcasting in stereo will be received in stereo.

You may note stereo broadcasts by observing that the STEREO $\$$ indicator will illuminate. When the FM Mode button is pressed until the AUTO ϵ light goes out, all stations will be received in a monaural mode regardless of the method of transmission. NOTE: When a station is broadcasting in stereo, but has a weak signal level, the reproduction may not be acceptable. In this case, select the Auto Off mode, as monaural reception is less susceptible to noise in weak reception areas. Tuner Presets There are thirty preset positions that may be used to store your favorite stations in any order. These may be used to memorize the station's frequency, reception mode and the station's name. Stations may be preset automatically or manually, and then recalled in a variety of ways.

Automatic Station Preset Selection This process automatically scans the AM and FM bands and enters all stations with proper signal strength into the memory. To automatically preset the tuner's memory, follow these steps: 1. Select the tuner as the unit's input by pressing the AM/FM button 3 c.

2. Using the TUNE % j buttons, select the first station you wish to preset at the low end of the AM or FM band. AVR70 engelsk manual 11/01/98 11:57 Side 19 Basic Operation 19 ENGLISH 3. Start the automatic tuning preset by simultaneously pressing MEMO and TUNE / on the front panel \hat{O} %. The station tuned in step #2 will be entered into the tuner's memory as CH 1. The MEMO \pounds and AUTOMEMO \square indicators will flash. The display will show increasing frequencies to indicate that the auto scan is in progress. 4. Each time the tuner finds a station the scanning will pause and the station will be played for five seconds. During this time you have the following options: a.

To enter the station in the next open memory position, no action is needed. After five seconds the tuner will enter the station and the preset number will be visible at the far left side of the main information display. b. The frequency band may be changed by pressing the FM/AM button 3 c. c.

If the tuner is scanning FM stations, the MODE may be changed from AUTO to mono by pressing the FM MODE button . d. If you do not wish to enter the current station into the preset memory, press the TUNE / button %j on the front panel or remote. 5. After the desired action is completed, or five seconds elapse, the tuner scan will continue.

The operation will stop automatically when all 30 preset positions are filled or when both frequency bands have been completely tuned, whichever comes first.

To stop the automatic preset process at any time press the CLEAR button \hat{O} or any input selection button. Manual Tuner Preset Stations may be manually entered into the tuner's memory in any order. Manual entry is performed from the remote control only. 1. Tune to the desired station as outlined in Tuner Operation Section. 2. Press the MEMO button \hat{O} and note that the M E M O indicator \pounds will flash. 3. While the indicator is flashing for the next 5 seconds, enter a number from 1 to 30 using the number buttons on the remote m.

Any number may be used, but if another station has already been programmed into the location number selected, the previous setting will be lost. a. To enter a single digit memory location, press 0 before the number, or enter the number and wait a few seconds. b. If an invalid number (other than 130) is entered in error, the display will flash to alert you that the entry is invalid and it will return to the previous frequency display. 4. When the preset memory has been properly programmed the MEMO indicator \pounds will stop blinking. Station Name Preset In addition to identifying stations by their broadcast frequency or by the RDS system each preset station manually may be assigned a name using alphanumeric characters. This enables you to identify a station by its call letters, program format, or any other five character phrase. To enter a station name, first preset all stations you wish to program into the tuner's memory.

Then, follow these steps: 1. Tune to the desired preset station. 2. Press the MEMO button \hat{O} on the front panel or o on the remote for more than three seconds.



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Note that a character on the left side of the main information display will start to blink. 4. Enter the first character of the name using either the front panel TUNE / or α buttons % or the alphanumeric buttons m on the remote. A. To use the front panel buttons simply press and hold TUNE / % button until the desired letter or number appears.

Note that the upper case alphabet will appear, followed by the numbers 1 through 0, and then a indicating a blank space. Tapping the button will advance the display one character at a time; holding it down will move the display quickly. If you pass by the desired character, use the TUNE α % to move the display in reverse. AVR70 engelsk manual 11/01/98 11:57 Side 20 ENGLISH Basic Operation 20 Tuning Preset Stations Stations preset into the tuner's memory may be recalled in a number of ways. 1. To recall a station directly enter a number from 1 to 30 using the number buttons on the remote m . a. To enter a single digit memory location, press 0 before the number, or enter the number and wait a few seconds. b. If an invalid number (other than 130) is entered in error, that number will flash to alert you that the entry is invalid and the display will return to the previous frequency display.

2. To scan through the list of preset stations, press the P-SET/ or P-SET α button on the front panel # or the CHANNEL buttons or · on the remote k. Press once to move up or down through the memory presets one by one, or press and hold the button to quickly scan through the list of stations. 3. To automatically review each station in the memory, press the P-SCAN button n \$. Note that the P-SCAN indicator / will blink. The tuner will move up through the list of stations, pausing to play each for five seconds. Note that preset numbers where no station has been programmed will be skipped. When the desired station is reached press P-SCAN \$ or CLEAR Ô. Clearing Preset Stations Once stations are programmed into the preset memories, it is possible to remove them individually or as a group.

To remove a single station from the memory: 1. Recall the station by pressing the buttons on the remote corresponding to the station's memory location. 2. Press the MEMO button Ó or o and observe that the MEMO indicator £ will blink. 3.

While the indicator is blinking, press the CLEAR button Ô (not the button CLEAR on the remote) within five seconds. The word CLEAR will show briefly to confirm that the memory position has been cleared. To clear all memory locations, the volume level and surround mode memories: 1. Press the MEMO button Ó o and the CLEAR button Ô m at the same time for some seconds, until C L E A R M E M O appears on the display. NOTE: When a complete memory clear is performed the AVR70 will turn off as part of the process.

After clearing the memory it is necessary to reset all stations and set up parameters. After entering the first character, press MEMO Ó to move to the next position and note that the next digit will blink. Use the same procedure outlined above to enter a character. When you have entered a digit or "blank" in all five spaces, press MEMO Ó for more than 1 second to confirm the entry. B. To use the remote for character entry, press the button corresponding to the desired letter or number. Press it once to enter the first printed letter, twice for the second, three times for the third and four times for the number. Press the "9" button to enter a blank space. (For example, press the "ABC" button once to enter an "A", three times for a "C" and four times to enter a "I".) Use the MEMO button o to move to the next digit position.

When all five spaces have been filled, press MEMO again for more than 1 second to confirm the entry. Once a station name has been attached to a preset position, the station's frequency will appear briefly when the unit is tuned to that station. After a few seconds the preset name will appear in the display. AVR70 engelsk manual 11/01/98 11:57 Side 21 Basic Operation 21 ENGLISH RDS Operation Now in use in many countries, RDS (Radio Data System) is a means of transmitting station call signs or network identification, a description of the station's programming, indication of national, regional or local programmes and others using hidden space in the FM signal. Your new receiver is equipped with RDS to assist in the selection of FM stations using station and network names, rather than broadcast frequencies. Additional RDS functions include the ability to search for programme types or to find stations with a specific programme type with a stronger signal. Programme Service Display When a receiver is tuned to an FM station that is transmitting RDS data, the front panel information display will automatically show the programme service, network or station name in place of the typical display of the station's broadcast frequency. To display the frequency, press the front panel RDS DISP button Ô. Programme Type (PTY) Display The RDS system categorizes programmes according to their genre into different programme type (PTY) groups. To display the programme type information of the current station, simply press the RDS/PTY button on either the remote control or the front panel Û z.

Please note that many stations don't broadcast PTY codes yet. Then N O N E is indicated. PTY Auto Search Your receiver is equipped to automatically search for stations transmitting any of the fifteen different programme types. To search for a PTY, follow these steps: 1. Press the RDS/PTY button on either the front panel or the remote.

The current station's PTY will be displayed, or the currently selected PTY group will be displayed if no station or RDS data is present. 2. To change to a new PTY type, press the RDS/PTY button Û z again until the desired PTY is shown in the display. a. When PTY selection is made using the RDS/PTY button only, the selection uses the PTY Group shown in Table 1.

b. To select a specific PTY type directly, use the numeric buttons on the remote control m to select the programme type corresponding to the numbered choices in Table 1. 3. Once the desired PTY group or type has been selected, press the Tune Up/Down buttons on the front panel or remote control %j while the PTY indication is blinking (within 5 seconds). The PTY Auto search will start, and the tuner will stop at the next station broadcasting RDS PTY information corresponding to the selected choice. 4. To advance to the next RDS station with the desired PTY, press the Tune Up/Down button again within 5 seconds. AF Auto Search A unique feature of the RDS system is its ability to find a station with identical programming automatically. This feature is particularly useful when listening to a national radio station where the same program is broadcast from a number of transmitters. To search for Alternate Frequencies follow these steps: 1.



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