

AVR 700, AVR 70, AVR 70C

Audio/video receiver

Quick-Start Guide



harman/kardon[®]
by HARMAN

Introduction

Thank you for choosing a Harman Kardon® product!

This quick-start guide contains all the information you need to connect and set up your new Harman Kardon® audio/video receiver.

To conserve our natural resources, your AVR does not include a printed owner's manual. An owner's manual containing complete information about operating all of your new AVR's features is available at our Web site. Go to www.harmankardon.com and download the AVR 700/AVR 70/AVR 70C Owner's Manual.

Place the AVR

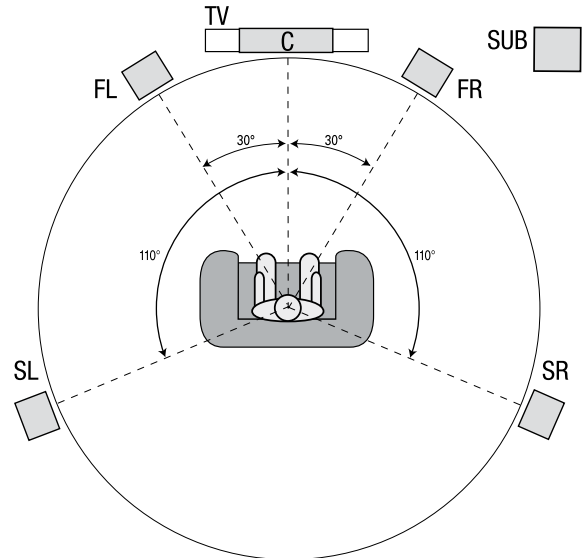
- Place the AVR on a firm and level surface. Be certain that the surface and any mounting hardware can support the AVR's weight.
- Provide proper space above and below the AVR for ventilation. Recommended clearance distances are 30cm above the unit, 10cm behind the unit and 20cm on each side of the unit.
- If you install the AVR in a cabinet or other enclosed area, provide cooling air within the cabinet. Under some circumstances, a fan may be required.
- Do not obstruct the ventilation slots on the top of the AVR or place objects directly over them.
- Do not place the AVR directly on a carpeted surface.
- Do not place the AVR in moist or humid locations, in extremely hot or cold locations, in areas near heaters or heat registers, or in direct sunlight.

Connections

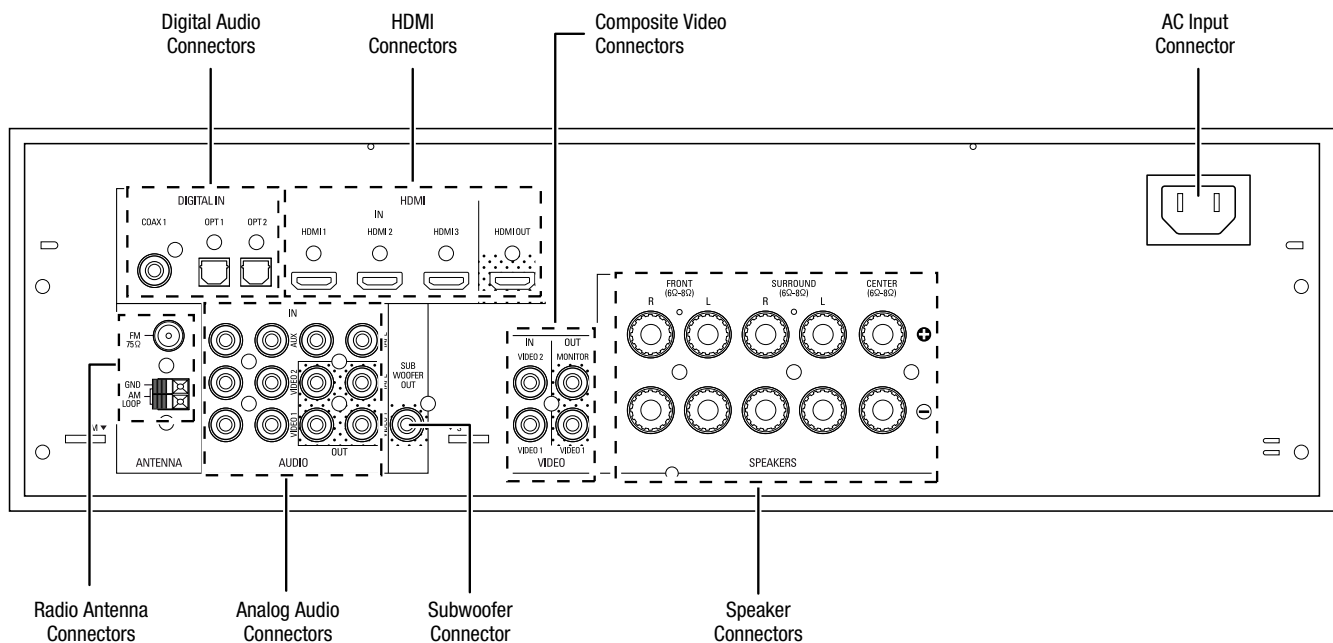
CAUTION: Before making any connections to the audio/video receiver, ensure that the AVR's AC cord is unplugged from the AVR and the AC outlet. Making connections with the AVR plugged in and turned on could damage the speakers.

Place Your Speakers

Determine the locations for your system's speakers according to their manufacturer's directions and the layout of your listening room. Use the illustration below as a guide.



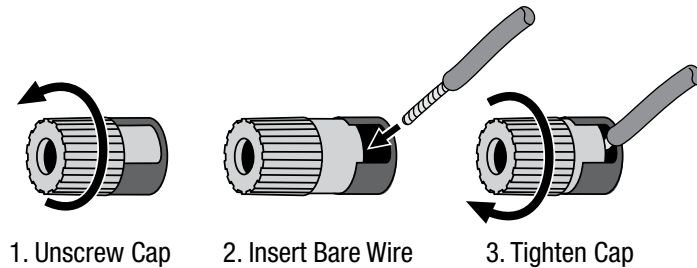
For more detailed speaker placement information, download the complete AVR 700/AVR 70/AVR 70C Owner's Manual from www.harmankardon.com.



AVR 700/AVR 70/AVR 70C Rear-Panel Connections

Connect Your Speakers

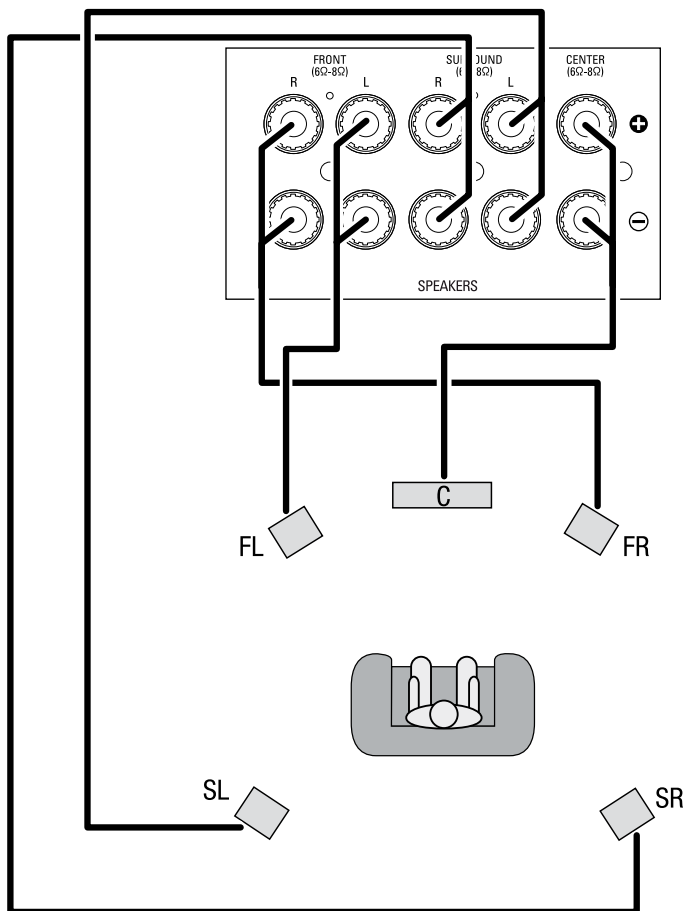
How to use the AVR's speaker terminals:



Always connect the colored (+) terminal on the AVR to the (+) terminal on the speaker (usually red), and the black (-) terminal on the AVR to the (-) terminal on the speaker (usually black).

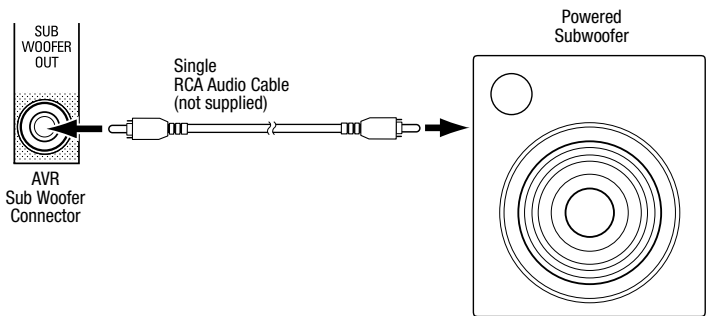
IMPORTANT: Make sure the (+) and (-) bare wires do not touch each other or the other terminal. Touching wires can cause a short circuit that can damage your AVR.

Connect the speakers as shown in the illustration.



Connect Your Subwoofer

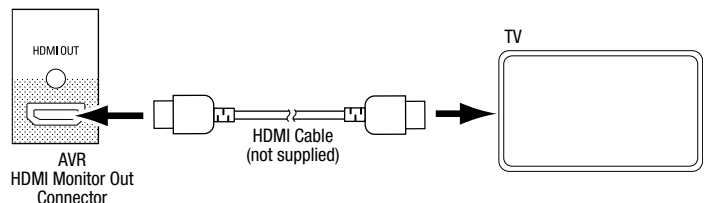
Use a single RCA audio cable to connect the AVR's Subwoofer Pre-Out connector to your subwoofer. Consult your subwoofer's user manual for specific information about making connections to it.



Connect Your TV or Video Display

HDMI Monitor Out Connector

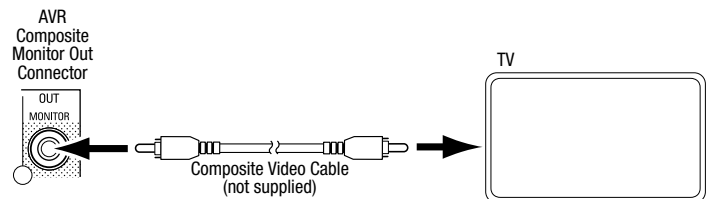
If your TV has an HDMI connector and you have HDMI video source devices, use an HDMI cable (not supplied) to connect your TV to the AVR's HDMI Monitor Out connector. It will provide the best possible picture quality.



Composite Video Monitor Out Connector

If your TV does not have an HDMI connector, or if your TV does have an HDMI connector *but you are connecting some source devices with only composite video connectors*, use a composite video cable (not included) to connect the AVR's Composite Monitor Out connector to your TV's composite video connector.

IMPORTANT: The AVR's on-screen display (OSD) only appears through the Composite Monitor Out connector. If you want to use the AVR's OSD menus you need to connect its Composite Monitor Out connector to your TV even if you are not connecting any composite video source devices to the AVR.



Connect Your Audio and Video Source Devices

Source devices are components where a playback signal originates, e.g., a Blu-ray Disc™ or DVD player; a cable, satellite or HDTV tuner; etc. Your AVR has several different types of input connectors for your audio and video source devices: HDMI, composite video, optical digital audio, coaxial digital audio and analog audio.

Each of your AVR's source buttons is assigned to an analog audio input connector (listed in the "AVR Source Button/Analog Audio Connector" column of the table below).

The digital inputs are not assigned to any specific sets of analog inputs. Once you select a source device you can use the remote control's DIGITAL button to select the specific audio input connection (HDMI, coaxial digital, optical digital, analog) that you want to listen to. (Note: You cannot select an audio input connection for the FM/AM or USB source buttons.)

As you connect your various source components, fill out the "Source Device Connected" and "Digital Audio Input Connector Used" columns in the following table – it will make it easy to keep track of which devices you have connected to which connectors.

AVR Source Button/ Analog Audio Connector	Source Device Connected	Digital Audio Input Connector Used
Video 1		
Video 2		
Video 3		
Tape		
Aux		
AVR Source Button/ HDMI Connector	Source Device Connected	Digital Audio Input Connector Used
*HDMI 1		
HDMI 2		
HDMI 3		

*The AVR remote is pre-programmed to control a Harman/Kardon Blu-ray Disc or DVD player connected to HDMI 1.

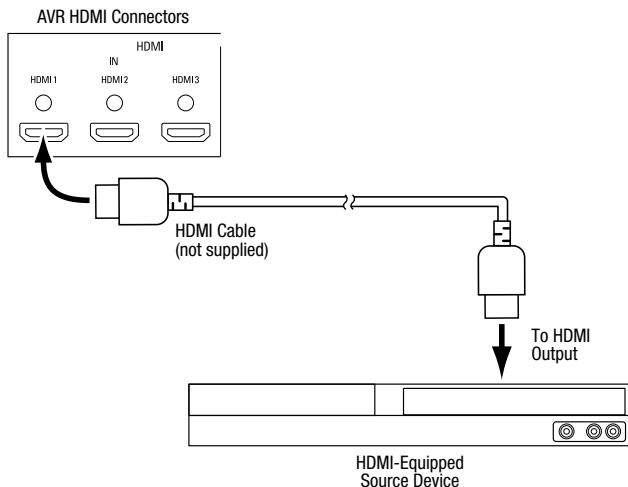
Input Connections and Source Buttons

HDMI Devices

If any of your source devices have HDMI connectors, using those connectors will provide the best possible video and audio performance quality. Since the HDMI cable carries both digital video and digital audio signals, you do not have to make any additional audio connections for devices you connect via HDMI cables.

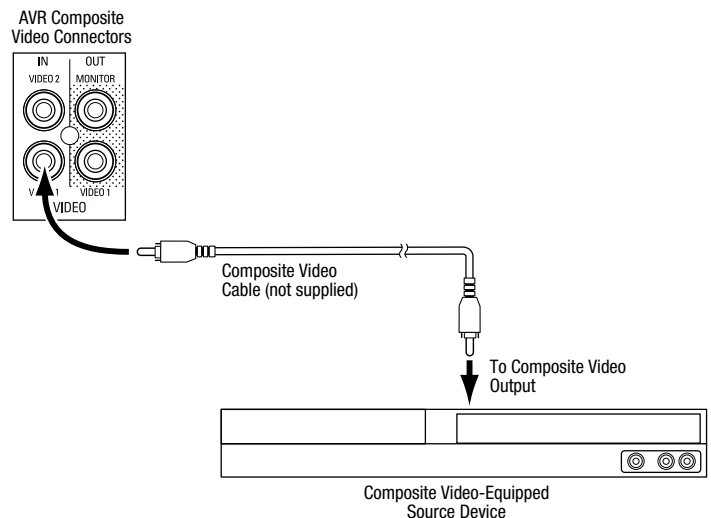
If you have a Harman/Kardon Blu-ray Disc or DVD player, connect it to the AVR's HDMI 1 connector. The AVR remote control is pre-programmed to control a Harman/Kardon Blu-ray Disc or DVD player when the HDMI 1 Source Selector button is pressed.

If you have a TV equipped with the HDMI Audio Return Channel function, its sound is fed to the AVR via the HDMI Monitor Out connection's Audio Return Channel, and it will not require additional audio connections to the AVR. Refer to the complete AVR 700/AVR 70/AVR 70C, downloadable at www.harmankardon.com, for details.



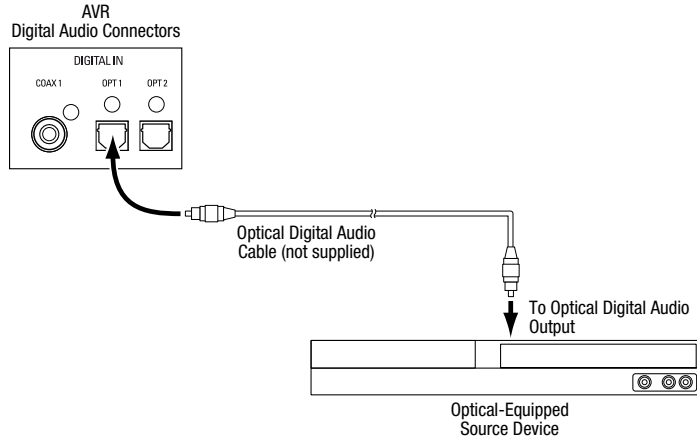
Composite Video Devices

You will need to make composite video connections from your source devices that do not have HDMI video connections. You will also need to make an audio connection from the device to the AVR.



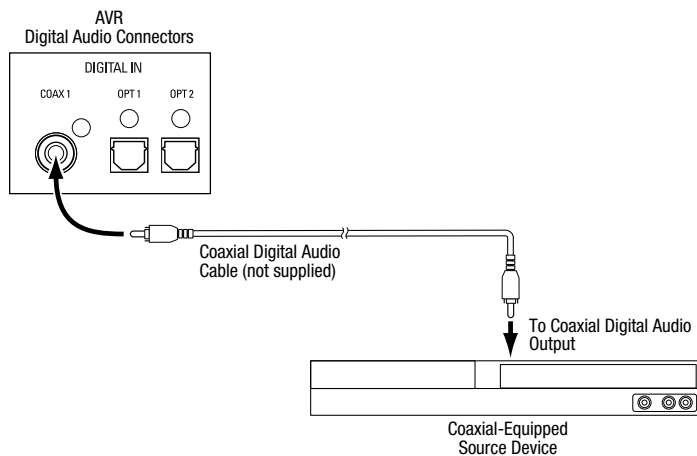
Optical Digital Audio Devices

If your source devices have optical digital outputs, connect them to the AVR's optical digital audio connectors.



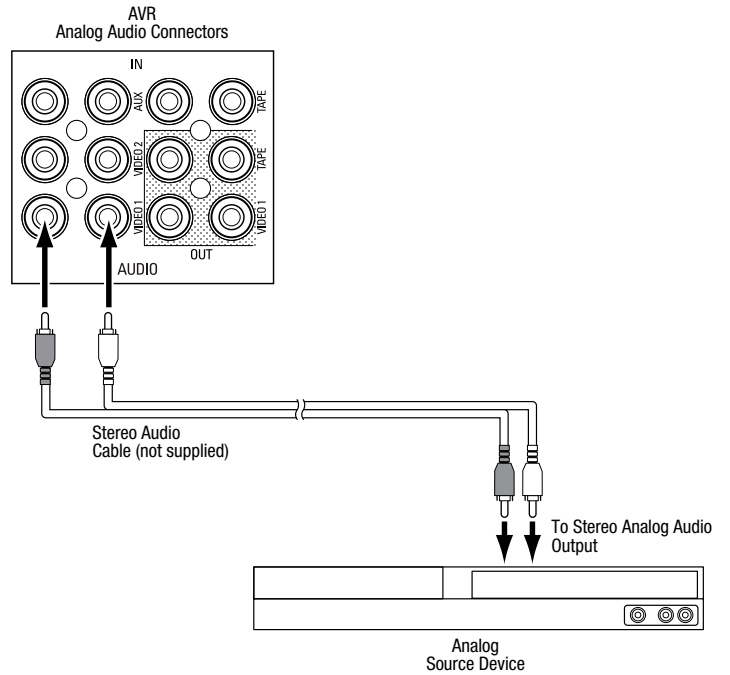
Coaxial Digital Audio Devices

If your source devices have coaxial digital outputs, connect them to the AVR's coaxial digital audio connectors.



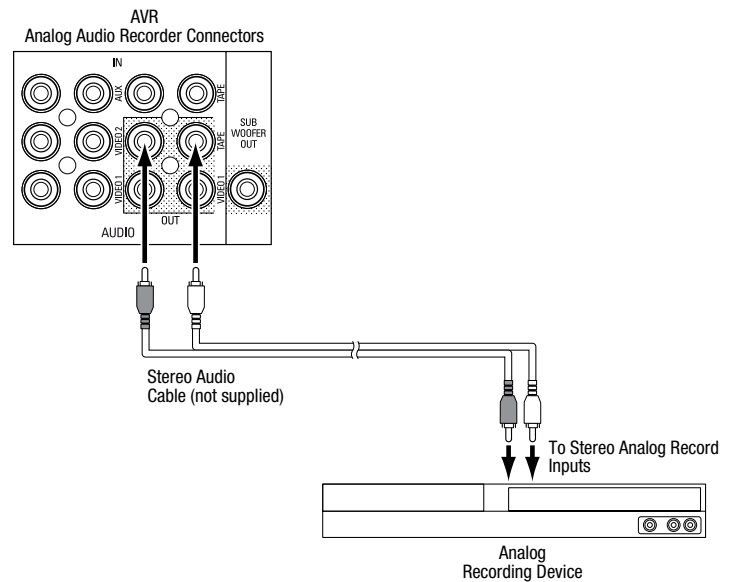
Analog Audio Devices

Make analog audio connections from your source devices that do not have HDMI or digital audio connections. If you're connecting video sources to the AVR's Video 1 or Video 2 audio inputs, you must also connect the source device's composite video output to the corresponding composite video connector.



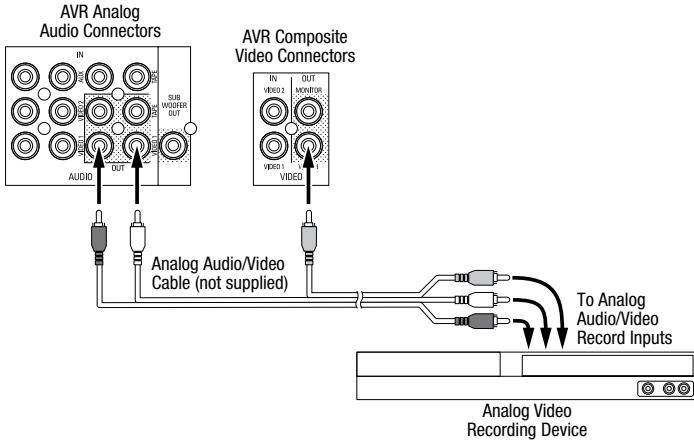
Audio Recorder

Connect an analog audio recorder's inputs to the AVR's analog audio Tape Out connectors. You can record any analog audio input signal (except Tape In).



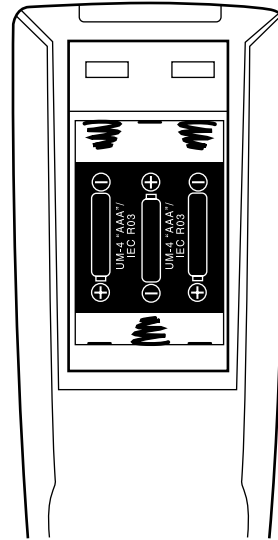
Video Recorders

Connect an analog video recorder's video input connector to the AVR's Video 1 Out composite video connector and its audio input connectors to the AVR's Video 1 Out analog audio connectors. You can record the Video 2 composite video input signal.



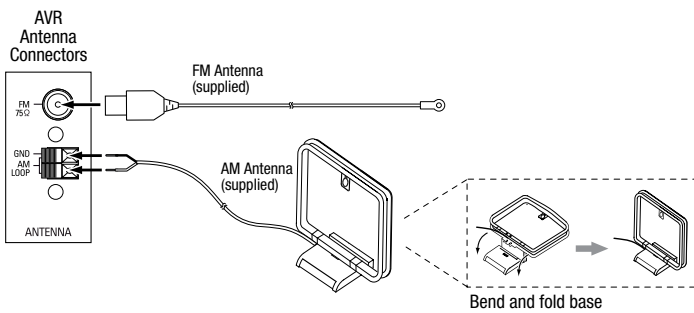
Install the Batteries in the Remote Control

Remove the remote control's battery cover, insert the three supplied AAA batteries as shown in the illustration, and replace the battery cover.



Connect the Radio Antennas

- Connect the supplied FM antenna to the AVR's FM 75Ω antenna connector. For the best reception, extend the FM antenna as far as possible.
- Bend and fold the base of the supplied AM antenna as shown and connect the antenna wires to the AVR's AM and Gnd connectors. Rotate the antenna as necessary to minimize background noise.



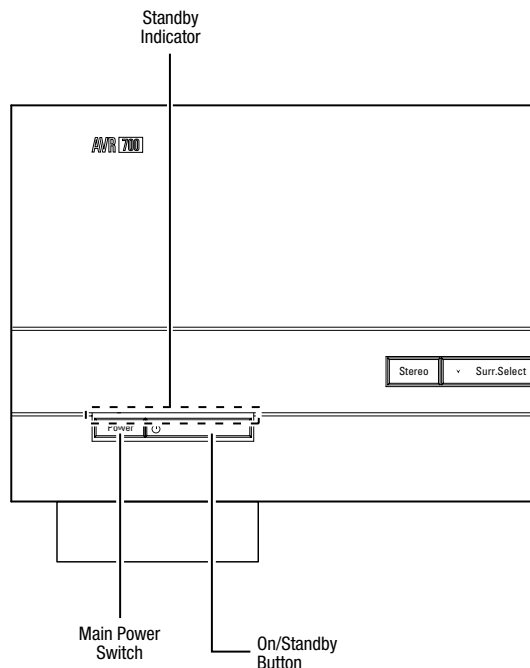
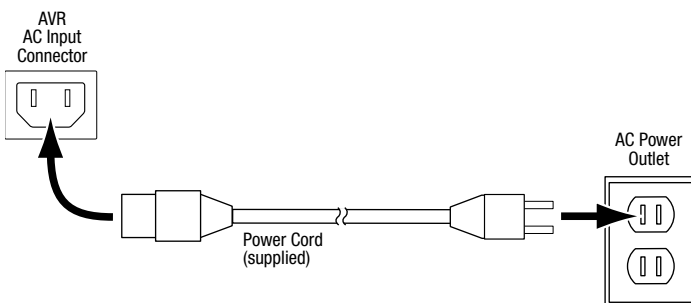
NOTE: Remove the protective plastic from the AVR's front panel to keep it from reducing the remote control's effectiveness.

Turn On the AVR

1. Set the AVR's Main Power switch to "On." (The Standby indicator will glow amber.)
2. Press the front-panel On/Standby button.

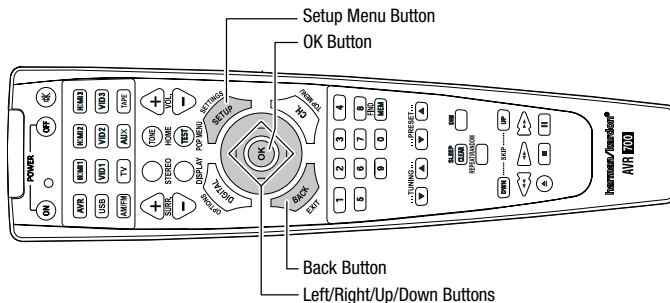
Connect to AC Power

Connect the AC power cord to the AVR's AC Input connector and then to a working AC power outlet. **IMPORTANT:** Before connecting the AC power cord, make sure that the AC voltage listed on the AVR's back panel matches the AC voltage used in your country.



Configure the AVR for Your Speakers

You will be using the following remote control buttons to configure your AVR:



1. Turn on your TV and select the TV input where you connected the AVR's Composite Monitor Out connector in *Connect Your TV or Video Display*, on page 3. Note: Although you can configure the AVR using only its front-panel message display, it is much easier to use the On-Screen Display (OSD) menu system.
2. Press the remote control's SETUP button. The AVR's OSD System Setup menu will appear on the TV.

System Setup

- ```

1. Speaker Setup
2. HDMI Setup
3. Audio Settings
4. Audio Power Control
5. Speaker On/Off

```

3. Use the remote's arrow and OK buttons to select "Speaker Setup." The Speaker Setup menu will appear.

### 1. Speaker Setup

- ```

a. Speaker Settings
b. Crossover
c. Channel Level
d. Speaker Distance
    
```

4. Select "Speaker Settings." The Speaker Settings menu will appear.

1a. Speaker Settings

- ```

Front < [LARGE] >
Center [LARGE]
Surround L/R [LARGE]
Subwoofer [YES]

```

5. Use the remote's left and right arrow buttons to select OFF, SMALL or LARGE for the Front, Center and Surround speaker positions, depending on the speakers you have connected to the receiver.

**OFF:** Select this setting if you have not connected a speaker in that position (not available for the Front speakers).

**SMALL:** Select this setting if the speaker is not capable of producing clean, deep bass energy at output levels that match those produced by a powered subwoofer. All bass in that channel is removed from that speaker and is sent to the subwoofer (or to the Front speakers if Subwoofer is set to NO). Most speakers (unless they are large and powerful) should be considered SMALL.

**LARGE:** Select this setting if the speaker is capable of producing clean, deep bass energy at output levels that match those produced by a powered subwoofer. All bass in that channel is sent to that speaker.

**Note:** If your system has a subwoofer and you set the Front speakers to LARGE, the subwoofer may not output audio except for Dolby Digital- and DTS-encoded program material that contains LFE channel information. If you set your Front speakers to LARGE and you want your subwoofer to reproduce bass from all program material, set the Subwoofer to PLUS (see below).

For Subwoofer, select YES (if your system has a subwoofer), NO (if your system does not have a subwoofer), or PLUS (if your system has a subwoofer, you set your Front speakers to LARGE and you want your subwoofer to reproduce bass from all program material).

When you're finished, press the remote control's BACK button to return to the Speaker Setting menu.

6. For now you can skip the "Crossover" setting. For complete details about making this setting, please download the *AVR 700, AVR 70, AVR 70C Owner's Manual* from [www.harmaninternational.com](http://www.harmaninternational.com).

7. Select "Speaker Distance." The Speaker Distance menu will appear.

### 2d. Speaker Distance

- ```

Front L    < [ 10.0ft ] >
Center     [ 10.0ft ]
Front R    [ 10.0ft ]
Surround R [ 10.0ft ]
Surround L [ 10.0ft ]
Subwoofer  [ 10.0ft ]
    
```

8. Measure the distance from each speaker in your system to the listening position. Write down the distances.

9. Use the remote's left and right arrow buttons to change the distance setting for each speaker so it matches the distance you wrote down in step 8. When you're finished, press the remote control's BACK button to return to the Speaker Setting menu.

10. Select "Channel Level." The Channel Level menu will appear. Use the remote's left and right arrow buttons to set Test Tone to "Manual" and press the remote's OK button. After the on-screen countdown you will hear test noise through the front left speaker.

2c. Channel Level

- ```

Test Tone < [Manual] >

```

11. Sit in the main listening position and adjust the AVR's volume control so the test noise is moderately loud. Note the volume of the test noise through the first speaker. Press the remote's down arrow button to advance the test noise to each of your system's speakers and note the volume level of the noise in each speaker.

12. As you advance the test noise through the speakers, use the remote's left and right arrow buttons to adjust the volumes of the channels until all of them play at the same volume. When you're finished, press the remote's SETUP button to turn off the on-screen menus.

**You are now ready to enjoy your AVR!**

**IMPORTANT:** For complete information about using all of your audio/video receiver's features and capabilities, download the *AVR 700/AVR 70/AVR 70C Owner's Manual* from [www.harmaninternational.com](http://www.harmaninternational.com).

## General Specifications

Power consumption: <0.5W (standby); 280W (maximum)

Dimensions (W x H x D): 17-5/16" x 4-15/16" x 13"  
440mm x 125mm x 330mm

Weight: 20 lb (9.1kg)

Dimensions do not include feet, connectors or knobs.



## HARMAN

HARMAN International Industries, Incorporated  
8500 Balboa Boulevard, Northridge, CA 91329 USA  
516.255.4545 (USA only)

Made in P.R.C.

© 2012 HARMAN International Industries, Incorporated. All rights reserved.

Harman Kardon is a trademark of HARMAN International Industries, Incorporated, registered in the United States and/or other countries. DTS, DTS-HD, the Symbol, & DTS or DTS-HD and the Symbol together are registered trademarks of DTS, Inc. © DTS, Inc. All Rights Reserved. Dolby, Pro Logic, and the double-D symbol are registered trademarks of Dolby Laboratories. HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.

Features, specifications and appearance are subject to change without notice.

Part no. 950-0458-001, Rev. A

**harman/kardon**  
by HARMAN

[www.harmankardon.com](http://www.harmankardon.com)