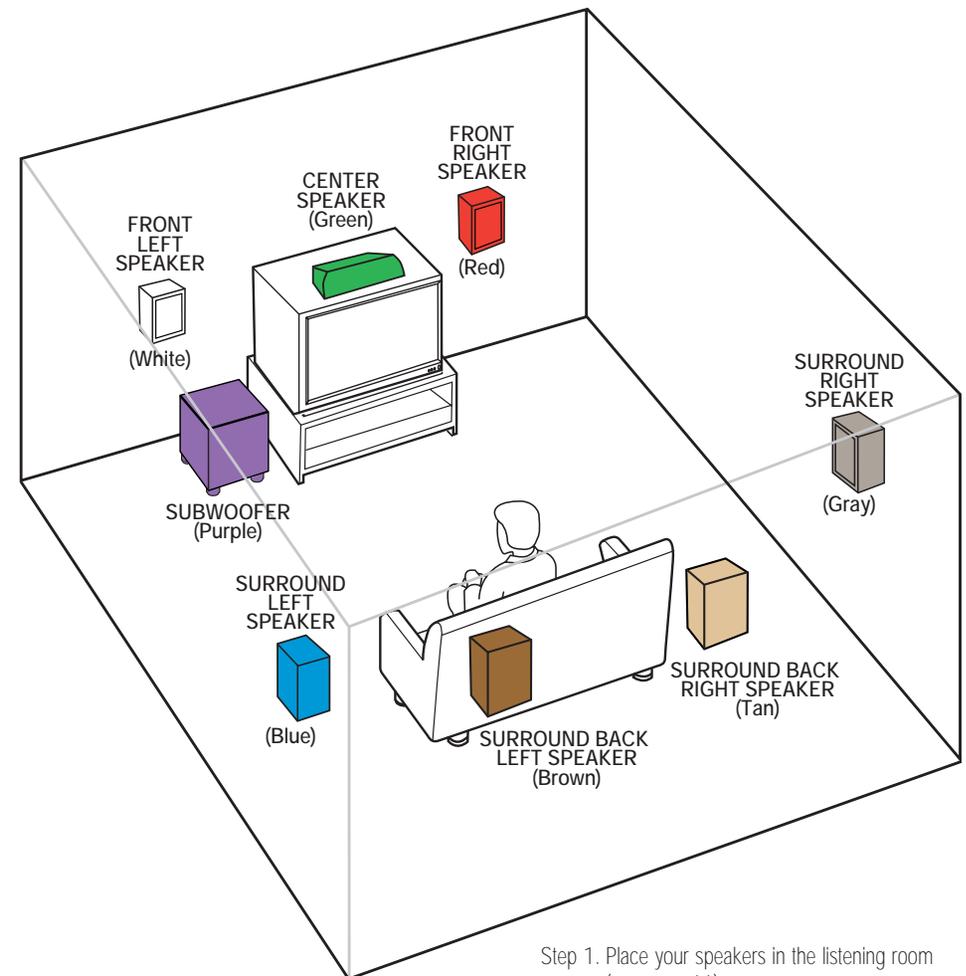Thank you for purchasing a Harman Kardon CP 25 Home Theater System. This Quick-Start Guide will help you with a basic system installation. For detailed information on any step in this Guide, please refer to the pages referenced in the Owner's Manual for the AVR 235 that is part of this system. We strongly recommend that you read all four Owner's Manuals for complete details on how to install, configure and operate the AVR 235, DVD 22, HKTS 7 and HKS 3, as well as for the important safety information they contain. You should also read the Owner's Manual for the included RCP 2 system remote.

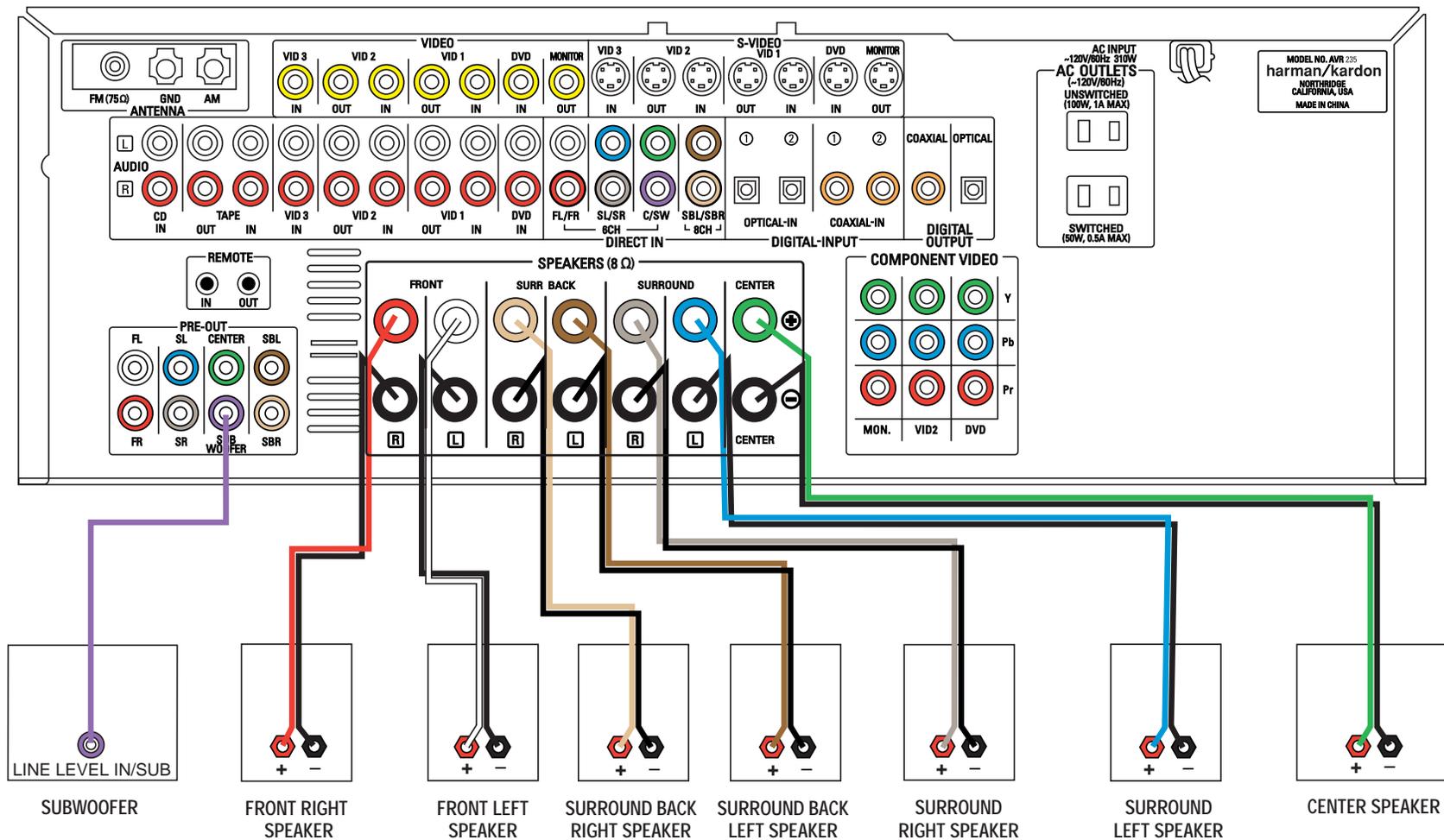## Figure 1 – Speaker Placement

The colors shown for each speaker correspond to the matching output terminal connection on the back of the AVR 235 (see page 7).

Connections Color Guide		
Audio Connections	Left	Right
Front		
Center		
Surround		
Subwoofer		
Surround Back		
Digital Audio Connections		
Coax		
Optical		
Video Connections		
Composite		
S-Video		

Match the colored jacks on the AVR 235 to the appropriate jacks on your source equipment or speakers. The colors are standardized, but not all equipment or connectors use them.

FRONT RIGHT SPEAKER

CENTER SPEAKER (Green)

(Red)

FRONT LEFT SPEAKER

(White)

SURROUND RIGHT SPEAKER

(Gray)

SUBWOOFER (Purple)

SURROUND LEFT SPEAKER

SURROUND BACK RIGHT SPEAKER (Tan)

(Blue)

SURROUND BACK LEFT SPEAKER (Brown)

Step 1. Place your speakers in the listening room (see page 16).

ANTENNA — FM (75Ω)   GND   AM

VIDEO — VID 3 IN | VID 2 OUT | VID 2 IN | VID 1 OUT | VID 1 IN | DVD IN | MONITOR OUT

S-VIDEO — VID 3 IN | VID 3 OUT | VID 2 IN | VID 1 OUT | VID 1 IN | DVD IN | MONITOR OUT

AUDIO — L / R — CD IN | TAPE OUT | TAPE IN | VID 3 IN | VID 3 OUT | VID 2 IN | VID 2 OUT | VID 1 IN | VID 1 OUT | DVD IN | FL/FR | SL/SR | C/SW | SBL/SBR

6CH ⌞ 8CH ⌟ **DIRECT IN**

① ② ① ② OPTICAL-IN   COAXIAL-IN **DIGITAL-INPUT**

COAXIAL OPTICAL **DIGITAL OUTPUT**

AC INPUT ~120V/60Hz 310W

AC OUTLETS (~120V/60Hz) UNSWITCHED (100W, 1A MAX)

SWITCHED (50W, 0.5A MAX)

MODEL NO. AVR 235 harman/kardon NORTHRIDGE CALIFORNIA, USA MADE IN CHINA

REMOTE IN OUT

PRE-OUT — FL | SL | CENTER | SBL — FR | SR | SUB WOOFER | SBR

SPEAKERS (8 Ω) — FRONT | SURR BACK | SURROUND | CENTER — R L R L R L CENTER

COMPONENT VIDEO — Y | Pb | Pr — MON. | VID2 | DVD

LINE LEVEL IN/SUB

SUBWOOFER | FRONT RIGHT SPEAKER | FRONT LEFT SPEAKER | SURROUND BACK RIGHT SPEAKER | SURROUND BACK LEFT SPEAKER | SURROUND RIGHT SPEAKER | SURROUND LEFT SPEAKER | CENTER SPEAKER

+ − (on each speaker)

Figure 2 – Speaker Connections

Step 2. Connect the speakers to the receiver: red (+) on speaker to colored (+) on receiver and black (–) to black (–). (See page 14.)

Step 3. Connect the Subwoofer Pre-Out jack to the Line Level In/SUB jack on your sub-woofer (see page 14). You may adjust the settings on the subwoofer later as needed.
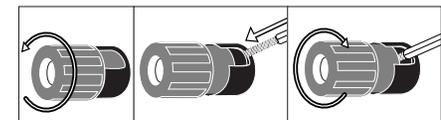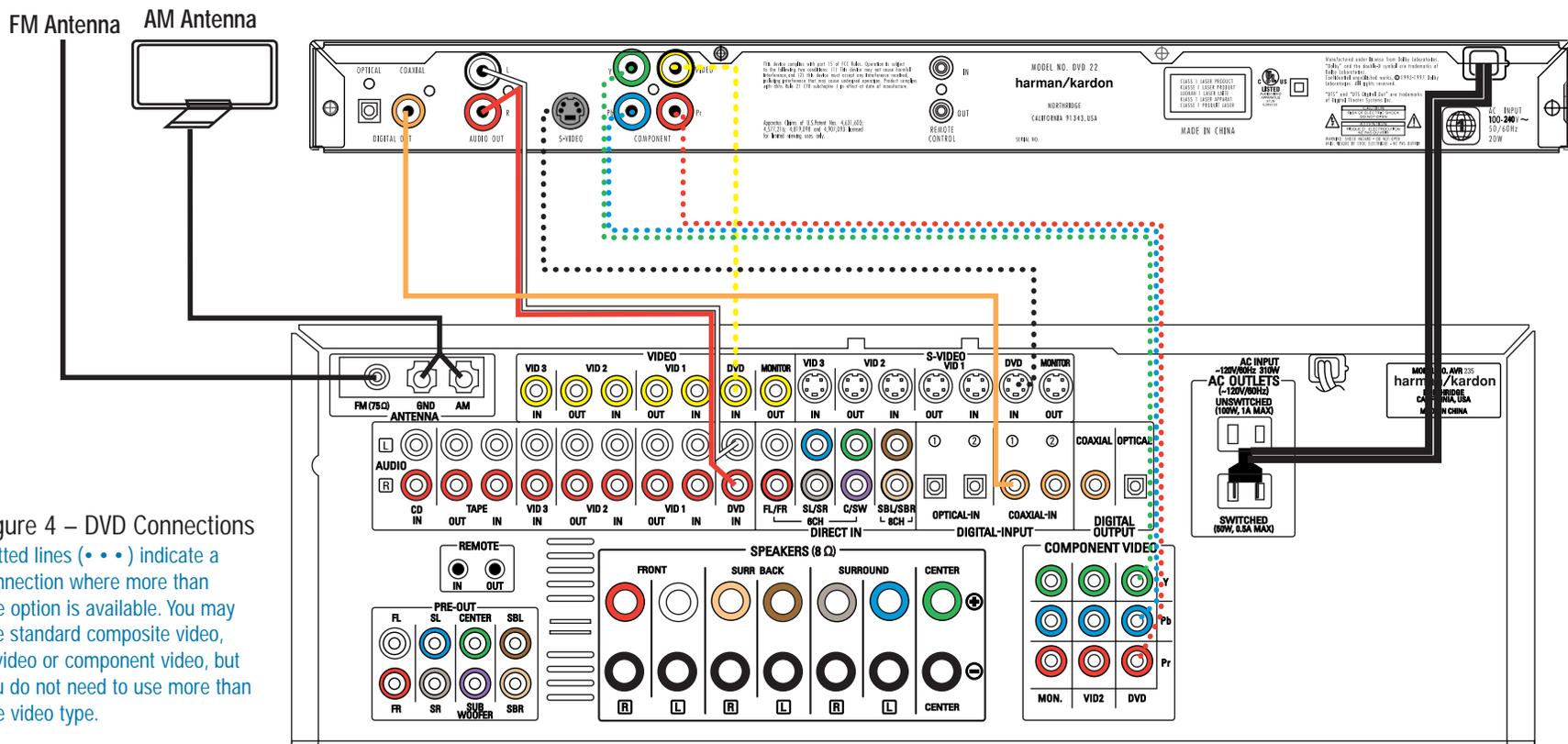
Figure 3 – How to Use the Binding-Post Speaker Terminal

FM Antenna **AM Antenna**

Figure 4 – DVD Connections
Dotted lines (• • •) indicate a connection where more than one option is available. You may use standard composite video, S-video or component video, but you do not need to use more than one video type.

Step 4. Connect AM and FM antennas (as shown above). (See page 14.)

Step 5. Connect the DVD 22 to the AVR 235 as shown above:

AUDIO connections: Connect the L/R Audio Out jacks on the DVD to the L/R DVD Audio in jacks on the AVR.

DIGITAL AUDIO connections: Use the enclosed coaxial interconnect (**orange connectors**) to connect the Coaxial Digital Output on the DVD to the Coaxial Digital 1 Input on the AVR.

VIDEO connections: Depending on the input available on your TV, use either composite video (**dotted yellow**), S-video (**dotted black**) or component video (**dotted red/blue/green**) connections. Only one connection type is needed.

POWER: Plug the DVD's AC power cord into the SWITCHED output on the back of the AVR. When you have finished making all connections, press the Main Power Switch on the DVD to turn it on (see pages 14–17).

Step 6. Connect other source devices such as a VCR, Cable or Satellite set-top box, HDTV receiver or audio recorder using the connections shown in the Device Connection Options chart and Figure 5 on the back of this Guide. Plug all sources into an AC power outlet.

Step 7. Connect the AVR to your TV or video display. You must make a composite, "S" or component video connection corresponding to each video source device used in your system. Remember to switch the TV to the correct input for each source.

NOTE: The AVR's on-screen menus are not available when viewing a component video connection. For that reason, a composite or S-video connection is recommended, though not required, when component video is used.

Basic Configuration

Step 8. **Select digital inputs:** Use the On-Screen Input Setup menu or the front-panel Digital Select button and the arrow buttons to select an optical or coaxial digital input, for any digital source other than the DVD (see pages 18 and 28).

Step 9. Use ‖‖EzSet™ to set output levels: Set the Balance to 12 o'clock, and the Volume to –10dB. Hold the remote in front of you at shoulder level, and point it at the AVR 235. Press the SPL button for 3 seconds, and release it when the LED flashes amber. Press "7" to indicate a 6.1/7.1 system. Hold the remote steady, and wait for the process to be completed (see page 23).

Step 10. If you are using a component video connection to a digital television, set the DVD 22's output to Progressive Scan, as shown on page 20 of the DVD 22 manual.

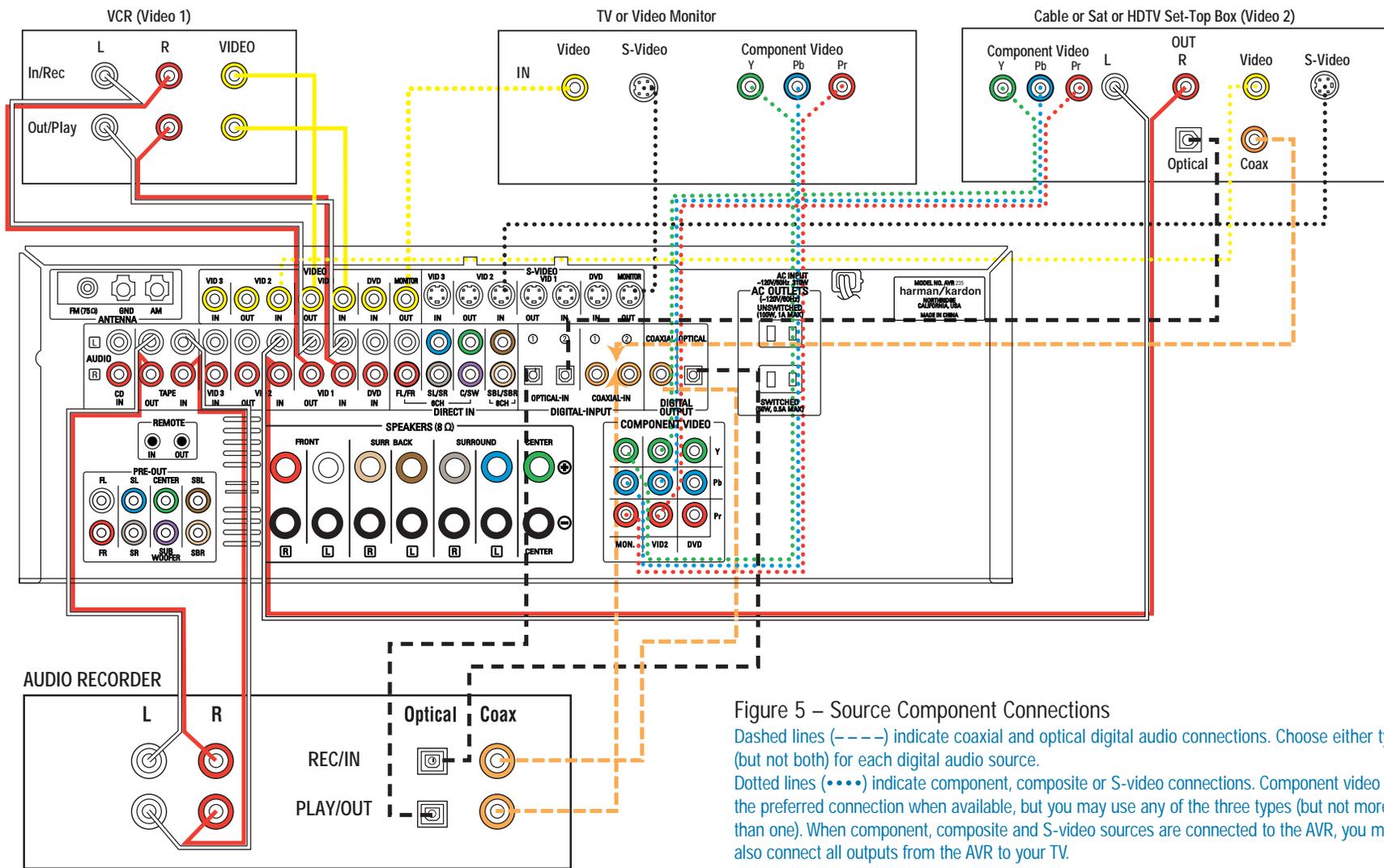Step 11. Your system is configured – sit back and enjoy!

Figure 5 – Source Component Connections

Dashed lines (– – – –) indicate coaxial and optical digital audio connections. Choose either type (but not both) for each digital audio source.

Dotted lines (•••) indicate component, composite or S-video connections. Component video is the preferred connection when available, but you may use any of the three types (but not more than one). When component, composite and S-video sources are connected to the AVR, you must also connect all outputs from the AVR to your TV.

Device Connection Options: Recommended connections are shown in red, but connections may be made to best fit your system requirements. The Video 4 inputs are on the front panel of the receiver.

Device	Input Name	Audio Input Connections	Audio Output Connections	Video Connections
CD Player	CD	CD L/R Inputs, Optical Digital 1 or 2, or Coaxial Digital 1 or 2	Not required	Not required
VCR	Video 1	Video 1 L/R Inputs	Video 1 L/R Outputs	Video 1 Composite or S-Video Input and Output
Cable Box or Satellite Receiver	Video 2 or 3	Video 2 or 3 L/R Inputs, Optical Digital 1 or 2, or Coaxial Digital 1 or 2 Inputs*	Not required	Video 2 or 3 Composite or S-Video or Component Video Input
Audio Recorder	Tape	Tape L/R Inputs, Optical Digital 1/2** or Coaxial Digital 1/2** Inputs	Tape L/R Outputs, Digital Optical** or Coaxial Outputs**	Not required
TV or Video Display	Not applicable	Not required	Not required	Monitor-Out Composite and/or S-Video and/or Component

* Check with your cable company to determine whether digital audio is available for all channels. It may be necessary to make BOTH analog and digital connections if it is not.   ****** Digital audio recorders only.

harman/kardon®

SOURCE COMPONENT CONNECTIONS