harman/kardon[®] Power for the Digital Revolution.[®]

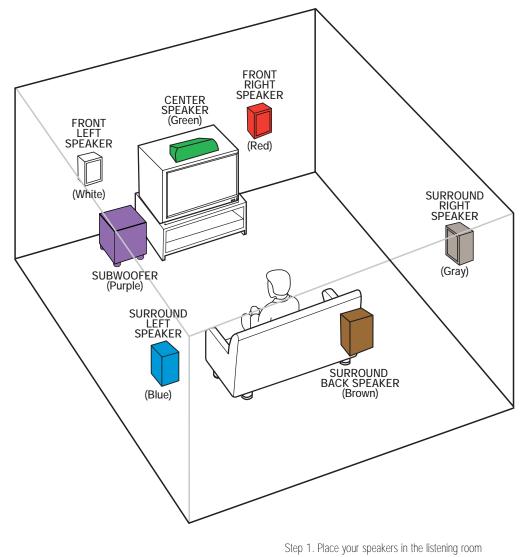
Power for the Digital Revolution.

Thank you for purchasing a Harman Kardon AVR 230. 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. We strongly recommend that you read the Owner's Manual for complete details on how to install, configure and operate the AVR 230, as well as for the important safety information it contains.

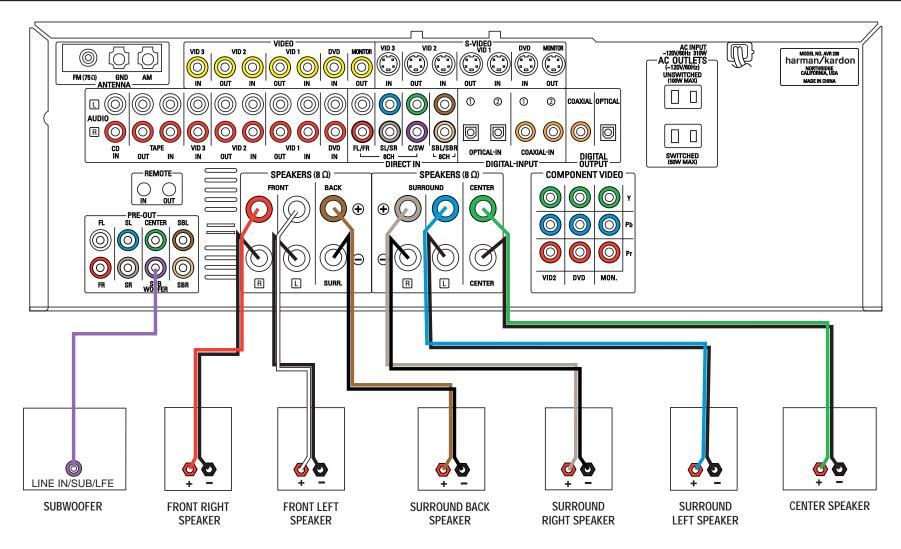
Figure 1 – Speaker Placement

The colors shown for each speaker correspond to the matching output terminal connection on the back of the AVR 230 (see page 7).

Connectio	ns Color Gui	de	
Audio Connections	Left	Right	
Front			
Center			
Surround			
Subwoofer			
Surround Back			
Digital Audio Connect	ions		
Соах			
Optical	Ø		
Video Connections			
Composite			
S-Video			
Match the colored jacks on jacks on your source equipr standardized, but not all equ	nent or speaker	s. The colors ar	



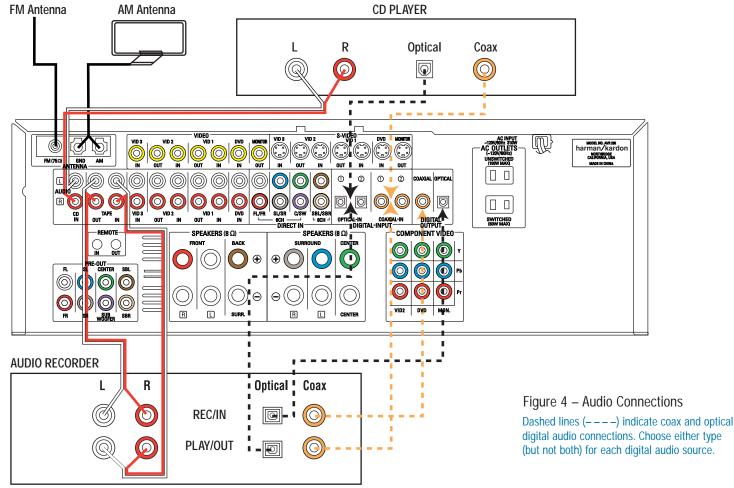
(see page 15).



- Step 2. Connect the speakers to the receiver: red (+) on speaker to colored (+) on receiver and black (–) to black (–). (See page 13.)
- Step 3. Connect the Subwoofer Pre-Out jack to the Line-In jack on your subwoofer (see page 13). You may adjust the settings on the subwoofer later as needed.

Figure 2 – Speaker Connections

Figure 3 – How to Use the Binding-Post Speaker Terminal



Step 4. Connect AM and FM antennas (as shown above). (See page 13.)

Step 5. Connect source components, as shown in Figures 4 and 5, and the Device Connection Options chart on the back of this Guide (see pages 13-14).

> AUDIO connections: Right channel (red) on source to right (red) on AVR, and left channel (white) on source to left (white) on AVR. DIGITAL AUDIO connections, if available: Choose either coax (orange) to coax (orange) OR optical to optical for each device. The Coax 1 input defaults to the DVD player, but may be reassigned. Assign the other digital inputs and outputs as appropriate for your equipment (see Step 7).

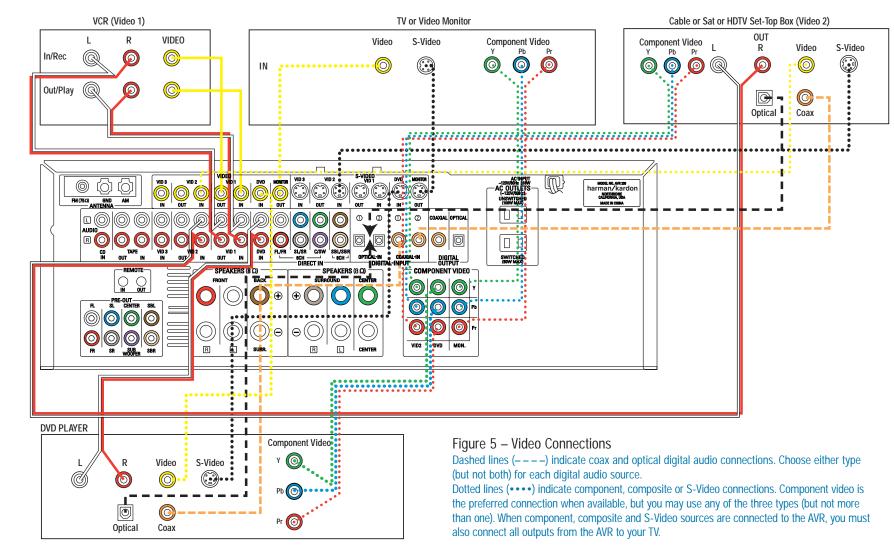
VIDEO connections: Choose either composite (yellow) or S-Video (4-pin) for each video source. Connect the composite and S-Video Monitor outputs to your Video Monitor (TV). Switch your TV set's input to match the type of video used for the currently selected source.

- Step 6. Plug all components into AC power outlets. The outlets on the back of the AVR 230 should be used only for low-current products, such as CD or DVD players, and the total should not exceed 100 watts. **Basic Receiver Configuration**
- Step 7. Select digital inputs: If your DVD is connected to Coax 1, no adjustment is needed. For any other digital-device connections, use the On-Screen In/Out Setup menu or the front-panel Digital Select button and the arrow buttons to select an optical or coax digital input (see pages 17 and 25).
- Step 8. Select a surround mode: Press the Surround Mode button on the front panel to select Dolby® Pro Logic® II - Movie. (You may select other modes later as you become familiar with the AVR 230; see pages 17–18 and 24–28.)
- Step 9. Configure speakers: No action is needed if you have five "small" satellite-type speakers and a subwoofer. Otherwise, use the OSD

digital audio connections. Choose either type

Speaker Setup Menu, or press the Speaker button and then the Set and arrow buttons to select the correct speaker choices for your system (see pages 18-20).

- Step 10. Use IIIIIEzSet to set output levels: Set the Balance to 12 o'clock, and the Volume to -15dB. Hold the remote in front of you at shoulder level, and point it at the AVR 230. Press the SPL button for 3 seconds, and release it when the LED flashes amber. Press "5" or "7" to indicate the number of speakers. Hold the remote steady, and wait for the process to be completed. In six-speaker systems, the levels for both surround back channels will be set using the single surround back speaker to optimize Logic 7[®] and other 7-channel processing (see pages 21-23).
- Step 11. Your system is configured sit back and enjoy!



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	
DVD Player	DVD	Coaxial Digital 1 or 2, Optical Digital 1 or 2, or DVD L/R Inputs	Not required	DVD Composite or S-Video or Component	
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	Таре	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 Projector	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.

VIDEO CONNECTIONS

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