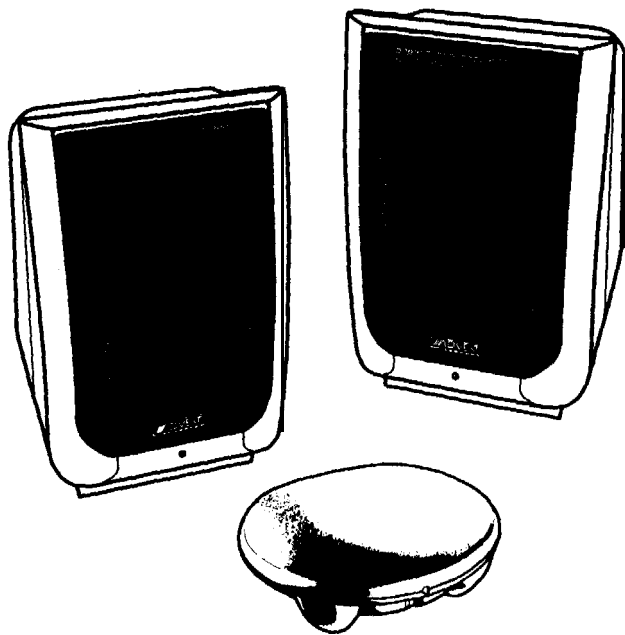


Wireless

900 MHZ WIRELESS STEREO SPEAKERS

INSTALLATION AND OPERATING INSTRUCTIONS



 ADVENT

AW870



900 MHz Wireless Stereo Speakers Installation and Operation Manual

Model **AW870**

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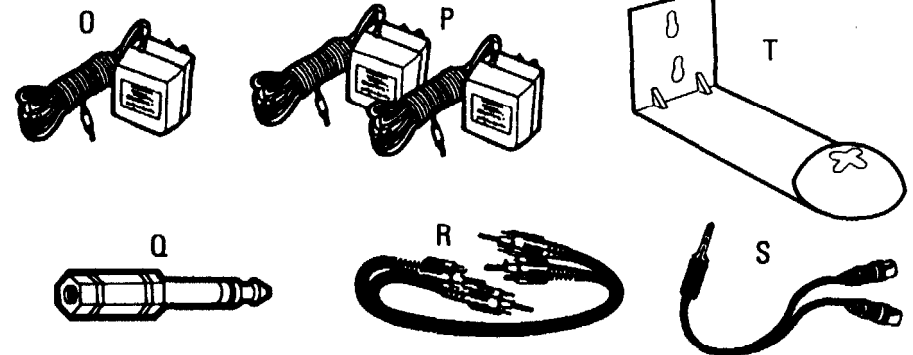
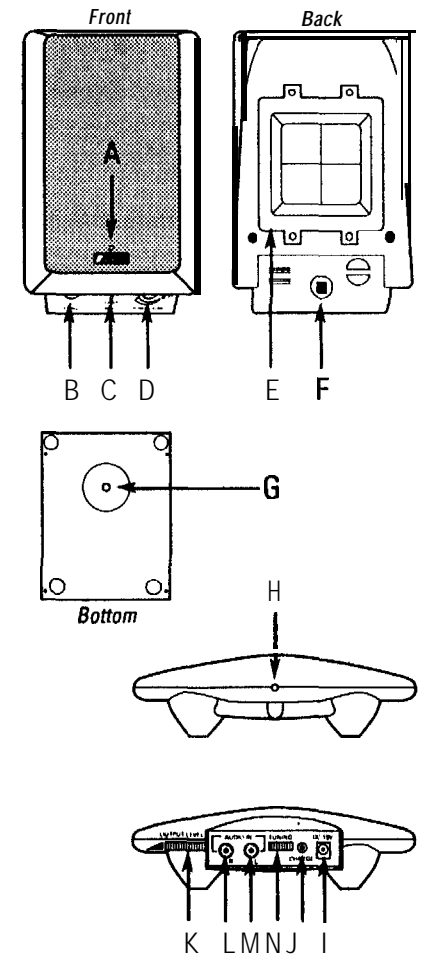
INTRODUCTION

Thank you for your purchase of 900 MHz Wireless Speakers by Advent. These speakers eliminate the most difficult aspect of installing additional speakers to any location in your home - running and concealing hundreds of feet of unsightly speaker wire. Like FM radio, the Advent Wireless Speaker System 900 MHz signals travel with ease through walls, floors, ceilings and other obstacles, delivering high-quality stereo sound virtually anywhere in or about the home. Resonator-controlled circuitry for drift- and static-free reception, coupled with outstanding range - up to 300 feet* - make the possibilities for your enjoyment of the Advent Wireless Speaker System virtually unlimited.

The Advent Wireless Speaker System is compatible with most potential audio sources, i.e. TVs, VCRs, stereo receivers/amps, personal stereos, boom boxes, DSS receivers, and individual stereo component pieces (CD players, cassette players, etc.) The contents of this manual cover various connection options and detailed operating procedures for making the Advent Wireless Stereo Speaker System a valued part of your lifestyle. If, after having reviewed the instructions, you have any questions, please contact our Customer Service Department at **1-800-732-6866**.

* Range will vary by environment.

- A. Tuning indicator Light
- B. Tuning Control Wheel
- C. **Left/Monaural/Right** Switch
- D. Power ON-OFF/Volume Control Wheel
- E. Battery Compartment Cover
- F. Speaker Power Input Jack
- G. Mounting Bracket Bolt Hole - see (T)
- H. Audio Level Indicator Light
- I. Transmitter Power Input Jack
- J. Charge Output Jack-for use with Advent **AW770** and **AW720** Wireless Headphones
- K. Output Level Control Wheel
- L. Right Audio Input Jack
- M. Left Audio Input Jack
- N. Frequency Control Wheel
- O. Transmitter AC Adapter - 18V DC
- P. Speaker AC Adapter (x2) - **15V** DC
- Q. Headphone Adapter Plug
- R. Dual RCA Cable
- S. "Y" Cable Adapter
- T. Speaker Mounting Bracket - optional, not included



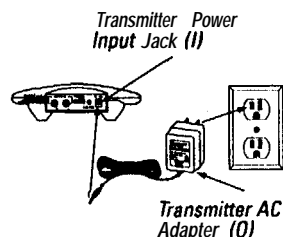
CONNECT THE TRANSMITTER

Connect the transmitter as follows:

Step 1 Connect the Transmitter

1. Insert the power cord from AC Adapter (O) into the Transmitter Power Input Jack (I).
2. Plug the AC adapter into a nearby, standard wall outlet.

Note: Be sure to use the AC adapter rated 18V DC 150 mA.

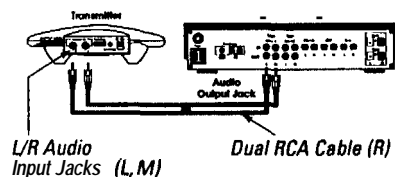


Step 2 Connect to an Audio Source

WARNING: DO NOT connect the Dual RCA cables to a speaker **output** on the audio source. If you use the speaker output of an audio source to connect the transmitter, you **will permanently** damage the **transmitter**. It is only designed to work with RCA-type line/variable outputs or headphone outputs only.

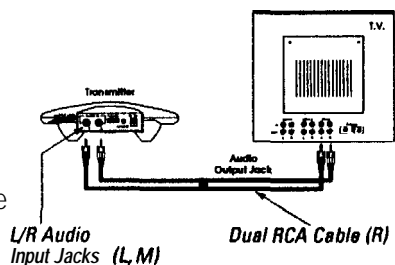
OPTION 1 CONNECTING TO A STEREO RECEIVER

1. Connect one end of the color-coded Dual RCA Cable (R) to the color-coded Left/Right Audio Input Jacks (L, M) on the transmitter.
2. Connect the other end of the Dual RCA Cable to the RCA-type audio outputs of a stereo receiver/ amp or other audio source.



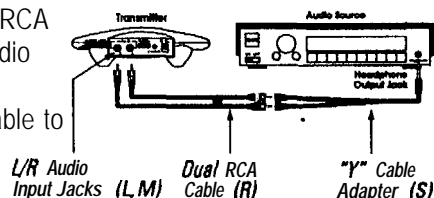
OPTION 2 CONNECTING TO A TELEVISION

1. Connect one end of the color-coded Dual RCA Cable (R) to the color-coded Left/Right Audio Input Jacks (L, M) on the transmitter.
2. Connect the other end of the Dual RCA Cable to the RCA-type audio outputs of a TV.



OPTION 3 CONNECTING TO A HEADPHONE JACK

1. Connect one end of the color-coded Dual RCA Cable (R) to the color-coded Left/Right Audio Input Jacks (L, M) on the transmitter.
2. Connect the other end of the Dual RCA Cable to the color-coded "Y" Cable Adapter(S).



3. Plug the 3.5mm mini plug from the "Y" Cable Adapter into the headphone jack (as needed, use the Headphone Adapter Plug (Q) to convert the 3.5mm plug to a 1/4" plug).

Note: If you select Option 1 or Option 2 to connect the transmitter, the audio level will be fixed or variable, depending on your equipment. If you select Option 3, the audio level will be variable.

ABOUT FIXED-LEVEL OUTPUTS

A fixed-level, or line level audio output is considered ideal since it provides an audio signal unchanged by adjustments to the audio source (stereo, etc.) volume control.

Hint: Fixed-level audio outputs from stereo receivers/amps will typically be designated as Tape, Tape 1, and Tape 2 outputs, OAT (digital audio tape) outputs, VCR audio output connections, and auxiliary audio outputs. Tape, Tape 1, Tape 2 and OAT outputs are usually marked as TAPE OUTPUT, TAPE OUT, TAPE REC, OR TAPE RECORD. Jacks designated for phono, CD, LD, DVD or tape playback (PB) are inputs and will not work for purposes of installing the transmitter.

Fixed-level outputs from TVs are usually marked as Constant, Fixed, or Select. If they are not marked as such, they are probably variable outputs (see "About Variable-Level Outputs," next page).

Outputs from VCRs are almost always fixed.

Hint: When connecting to the fixed audio outputs of a VCR, remember that for the wireless system to work, the VCR must be active. In other words, turn the TV on to the channel you would normally use to watch a videotape (channel 3 or 4), turn the VCR on, then press the TV/VCR button on your VCR remote control one time to make the VCR the controlling piece of equipment. At this point, you can watch TV or a VHS tape through the VCR. When changing TV channels, remember to do so through the VCR. This configuration gives you independent volume control through your TV (using the TV remote control) and at the speakers.

Hint: If your VCR (or other RCA-type audio source you are connecting to) is mono (a single audio output), you need to acquire an RCA "Y" Cable. It differs from the "Y" cable included in this kit. It will have a single male RCA plug and 2 female RCA jacks. Attach the dual RCA cables from the transmitter to the 2 female RCA jacks on the "Y" cable, then connect the single male RCA plug of the "Y" cable to the single audio output of the VCR.

ABOUT VARIABLE-LEVEL OUTPUTS

A variable-level output, such as a headphone jack, provides an audio signal to the transmitter that changes in relation to volume adjustments on the audio source. As the volume of the audio source goes up and down, so too does the audio signal strength sent to the transmitter. This can affect the quality of sound you hear at the speakers.

Hint: On most bookshelf-type or compact stereo systems, inserting a headphone plug into the headphone jack results in automatic cutoff of the regular, or hard-wired, speakers.

Hint: Most TVs, regardless of age or price, have variable output. You are unsure which, if any of your outputs is fixed, refer to the TV instruction manual. Some TVs have outputs that can switch between variable and fixed. Refer to the TV instruction manual. When given a choice, fixed is always recommended.

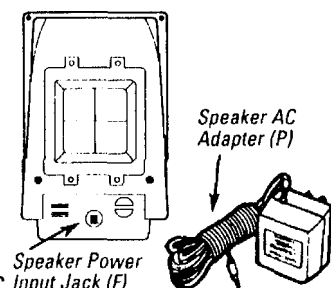
POWER THE SPEAKERS

Select from the following options to power the AW870 speakers.

POWER OPTION 1 CONNECT THE AC ADAPTER

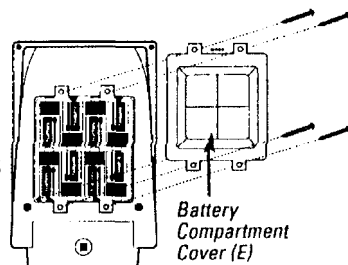
1. Turn the speaker Power On-Off/Volume Control Wheel (D) to the "OFF" position (all the way counterclockwise).
2. Insert the power cord from the AC adapter (P) into the Speaker Power Input Jack (F).
3. Plug the AC adapter into any standard wall outlet.
4. Repeat for other speaker.

Note: Be sure to use the AC adapters rated 15V DC 800 mA.



POWER OPTION 2 INSERT "C" CELL BATTERIES

1. Remove the four screws holding the battery compartment cover (E).
2. Insert eight (8) "C" batteries (optional) into the speaker following the polarity ("+" and "-") as diagrammed in the battery compartment.
3. Replace the battery compartment cover and screws.
4. Repeat for other speaker.



ADJUST THE TRANSMITTER

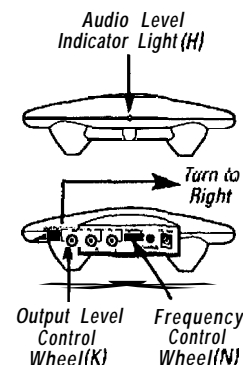
Adjust the transmitter as follows:

STEP 1 TURN ON YOUR AUDIO SOURCE

1. Turn ON your audio source (i.e. Stereo Receiver, TV, etc.) so that you can hear sound coming from the source.

STEP 2 SET THE TRANSMITTER "LEVEL"

1. Set the Frequency Control Wheel (N) to its midpoint.
2. Turn the Output Level Control wheel (K) all the way to the right as shown.
3. Check status of Audio Level Indicator Light (H). If it flickers intermittently (about half the time), proceed to "Tune the Speakers".
4. If Audio Level Indicator Light is on solid red or flickering very rapidly, turn wheel slowly back to the left until light flickers intermittently.



Note: If the light does not flicker, confirm secure connection of the AC adapter: If the light still does not flicker, confirm secure connection to the audio source output. If there is still no response, leave the Output Level Control Wheel completely to the right (as shown) and proceed.

Hint: If the transmitter is connected to a variable output (i.e. Headphone Jack, TV audio out) on the audio source, leave the Output Level Control Wheel turned all the way to the right (as shown) and adjust the volume on the audio source up or down as necessary to make the Audio Level indicator Light (H) flicker intermittently.

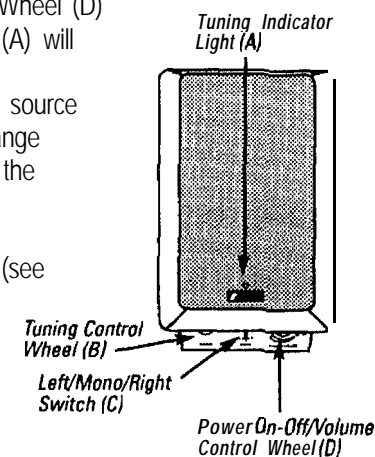
TUNE THE SPEAKERS

Adjust the speakers as follows:

TURN ON AND TUNE THE SPEAKERS

1. Use the speaker Power ON-OFF/Volume Control Wheel (D) to turn the speaker "ON." Tuning Indicator Light (A) will illuminate red.
2. Turn the Tuning Control Wheel (B) until the audio source is heard. The Tuning Indicator Light (A) will change color to green, indicating the speaker is tuned to the signal from the transmitter.
3. Adjust volume as desired.
4. Set the Left/Mono/Right Switch (C) accordingly (see "Setting the Speakers for Stereo/Monaural Operation" on page 9).
5. Repeat process for other speaker.

Note: Interference in the form of static and/or distortion can sometimes be heard. If this occurs, confirm correct transmitter/speaker adjustments and indicators. If the problem persists, refer to TROUBLESHOOTING.



SETTING THE SPEAKERS FOR STEREO/MONAUROAL OPERATION

For stereo operation, set the Left/Mono/Right Switch (C) to "Left" on one speaker and "Right" on the other speaker. For monaural operation at each speaker, set the Left/Mono/Right Switch to "Mono" on each speaker

Note: *If you use one speaker at one location and the other at another location (i.e. two different rooms), Advent recommends the "Mono" setting for best sound reproduction.*

OPTIONAL SPEAKER MOUNTING BRACKETS

Optional Speaker Mounting Brackets (T) are available to wall mount your **AW870** speakers.

TROUBLESHOOTING

The following troubleshooting guide takes you through some of the more common problems and corrections associated with the installation and/or operation of a wireless system.

TROUBLE CHECKS AND ADJUSTMENTS

- No Sound

Confirm that the Transmitter AC Adapter (O) is inserted into the wall outlet and the power cord from the AC adapter is firmly connected to the Transmitter Power Input Jack (I).

Confirm that the speaker is turned "ON".

Confirm that the Speaker AC Adapter(P) is fully inserted into the wall outlet and the power cord from the AC adapter is firmly connected to the Speaker Power Input Jack (F).

or

Check that the "C" cell batteries are fresh and inserted for correct polarity (t, -).

Check that the audio source (stereo, TV, etc.) is turned on and providing sound as it normally should.

Check that the speaker volume (D) is turned up.

If you are using a Tape 2 Monitor output from your receiver/amp as the audio output, check that you have pressed the Tape Monitor/Tape 2 button on the front of the receiver. This will turn on the Tape 2 outputs, which may be inactive otherwise.

No Sound in One Speaker

Check the left/right balance control on the audio source.

No Sound / Distortion/ Static

If using battery power, batteries may be low. Replace if necessary.

- Check that the speaker Tuning Indicator Light (A) is illuminated green. If not, adjust the Tuning Control Wheel (B) until the light changes from red to green.
- Check that the transmitter Audio Level Indicator Light(H) is flickering intermittently. If you are using a fixed output and the tight is on solid, or if the light is not on at all, adjust the Output Level Control Wheel (K) so that the light flickers intermittently.
- or
- If you are using a variable output, make sure the Output Level Control Wheel (K) is all the way right (as shown under "Adjust the Transmitter" page 7) and adjust the volume on the audio source up or down as necessary to make the tight flicker intermittently.
- Change the position of the transmitter Frequency Control Wheel (N) to change the operating frequency. Then, readjust the speaker Tuning Control Wheel (B) until Tuning Indicator Light (A) changes color to green.
- Try changing the physical location of the transmitter. Locate it as high and free of obstruction as possible. Avoid placing directly on top of a TV, if possible.
- Try moving the transmitter and speakers closer together. Sending the signal through certain materials, such as glass, tile, and metal, can decrease the effective transmitting distance of the system.

SPECIFICATIONS & FEATURES

TRANSMITTER

Omnidirectional

Effective Transmitting Range: Up to 300 Feet*

Adjustable Audio Level Input

Variable Frequency Adjustment between 912.5 to 914.5 MHz

Left/ Right Audio Line Level Inputs

UL-Listed AC adapter

SPEAKERS

15-Watts per Channel RMS (each speaker)

Two-Way Speaker Design

Acoustic Suspension Design

1" Dome Tweeter; 4" **Tuff-Kote™** Woofer

Integrated Power/Volume Control (front face)

Individual Frequency Fine Tuning (front face)

Left/Mono/Right Switch (front face)

Frequency Response: 20 Hz - 20 **kHz**

4 Ohm Rated

60 dB Signal-to-Noise Ratio

30 dB Channel Separation

Distortion: < 1.5%

* Range will vary by environment.