

Cat. No. 40-5029

STEREO 900 MHz WIRELESS SPEAKER SYSTEM

Your RadioShack 900 MHz Wireless Stereo Speaker System use the 900 MHz band to deliver high-quality stereo sound to almost anywhere in or around your home. Your Speaker System's three selectable channels, PLL (Phase-Locked Loop) circuitry and built-in antenna give you precise tuning, so you can enjoy your favorite sounds without disturbing others while you exercise or work around your yard or house — up to 150 feet away from your stereo.

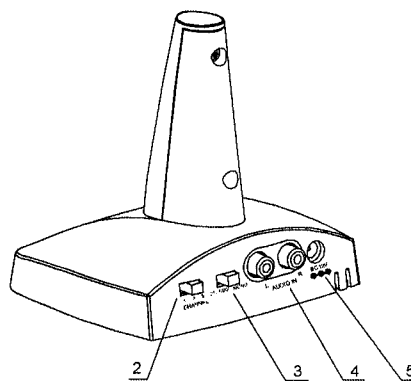
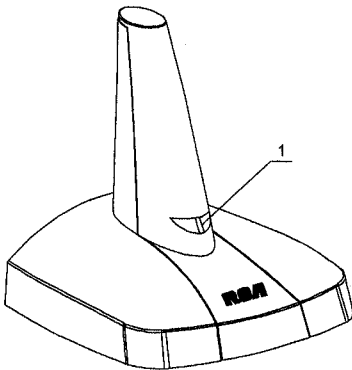
Power/Transmitter Indicator ___ lights green when the AC adapter is correctly plugged in and the audio signal is input to the transmitter.

Power/Speaker Indicator ___ lights green when the AC adapter is correctly plugged in.

CONTROL LOCATIONS

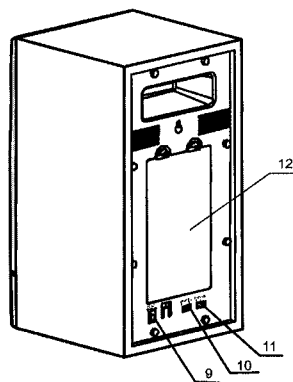
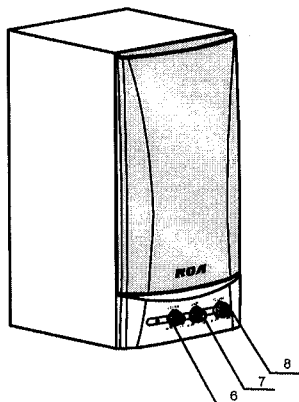
TRANSMITTER

- 1) LED Indicator (Power ON)
- 2) Channel Selector
- 3) STEREO/MONO Selector
- 4) AUDIO IN Jack (L, R)
- 5) DC Input Jack



SPEAKER

- 6) LED Indicator (Power ON)
- 7) Tone Control Knob
- 8) Power OFF and Volume Control Knob
- 9) DC Input Jack
- 10) Left/Right MODE Switch
- 11) Channel Selector
- 12) Battery box



PREPARATION

CHOOSING A LOCATION

Many factors affect the range of your system. To achieve the best performance:

- Position the transmitter as far as possible from other electronic devices such as TVs, receivers, or VCRs. Radio interference from these devices could affect your system's performance.
- Position the transmitter away from large metal objects, as these could block your transmitter's signals.
- Try several locations for the transmitter. Select the location that provides the best performance.

Your system's overall performance depends on your home's construction method, the other devices near the system, and other devices near the system, and other radio frequency sources in your home (such as cordless telephones).

INSTALLING THE TRANSMITTER

You need to properly set up the transmitter to send a wireless signal to the speakers. There are two things you must do. First, provide power to the transmitter, and second, connect the transmitter to the audio Source.

A) CONNECTING AC POWER

Use the supplied 12V, 250mA AC adapter to connect the transmitter to AC power.

Cautions:

- You must use a Class 2 power source that supplies 12 volts DC and delivers at least 250mA. Its center tip must be set to positive and its plug must fit the transmitter's **DC 12V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the transmitter or the adapter.
 - Always connect the AC adapter to the transmitter before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the transmitter.
- Plug the supplied AC adapter's barrel plug into the transmitter's **DC 12V** jack, then plug the adapter into a standard AC outlet.

B) CONNECTING TO AN AUDIO SOURCE

You can connect the transmitter to your audio source's left and right audio output jacks or its headphone jack.

Caution:

- Do not connect the transmitter to your audio source's speaker output. Doing so could damage the transmitter and audio source.
- If you connected the transmitter to an audio source's headphone jack, set the audio source's volume control to its mid-position.

1. Connect one end of the supplied audio patch cord to the transmitter's audio jacks (white plug to **L AUDIO IN** and red plug to **R AUDIO IN**).
2. If you are using the audio source's output jacks, connect the white and red plugs at the other end of the patch cord directly to the audio source's corresponding left (white) and right (red) audio jacks.

If you are using your audio source's stereo headphone jack, connect the patch cord's white and red plugs to the white and red phono jacks on the supplied adapter.

- If your audio source has a 1/8-inch headphone jack, insert the adapter's 1/8-inch stereo plug into the audio source's **HEADPHONE** jack.
- If your audio source has a 1/4-inch headphone jack, insert the adapter's 1/8-inch stereo plug into the back of the supplied 1/8-to-1/4-inch stereo adapter. Then insert the adapter into the audio source's **HEADPHONE** jack.

C) MODE SWITCH

For normal stereo use, set the **STEREO/MONO** switch at the rear of the transmitter to **STEREO** position. If you are using a monaural system, set the switch to **MONO** position.

INSTALLING A SPEAKER

CONNECTING POWER

A) DC OPERATION (8XD SIZE 1.5V ALKALINE BATTERIES)

Open the battery cover located at the back of the speaker unit. Insert the batteries making sure it is correct and good contacted with the coil springs inside the compartment. Replace the battery cover making certain the cover is secure prior to moving the Speaker.

Note: Be sure the battery cover is secure a falling battery could cause personal injury or damage to equipment.

B) AC OPERATION

- Insert the power cord of the large sized 12V 1800 mA AC Adapter (provided) into the **DC IN** Jack located at the back of the Speaker unit.
- Plug the other end of the AC Adapter into a conveniently located electrical wall outlet.

C) MODE SWITCH

For normal stereo use, designate one Speaker as **LEFT** channel and the other as **RIGHT** channel. Simply set one Speaker to "L" for Left and one to "R" for Right.

Follow the same steps, as completed above, for the other Speaker.

OPERATION

To protect your hearing, follow these guidelines when you use the speaker system.

- Set the volume to the lowest setting before you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high-volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

Follow these steps to obtain maximum listening performance

- 1) Make sure that your transmitter and speaker are set up according to the procedures given in this manual.
- 2) Turn on your audio source.
Refer to **TRANSMISSION AUTO ON/OFF** below for the transmitter operation.
- 3) Switch the transmitter to a frequency channel (Channel 1, 2, or 3) that has no interference.
Refer to **CHANNEL SELECT** below.
- 4) Slide the **CHANNEL** switch at the rear of the Speakers to select the same channel (channel 1, 2, or 3) selected on the transmitter.
- 5) Turn on each speaker (Left and Right speakers) by rotating the **VOLUME** Control Knob. A 'click' will be heard and the power on indicator (green) will be on.

- 6) Set each speaker's **MODE** switch to **L** (for the Left stereo speaker) and **R** (for the Right stereo speaker) and set the transmitter's **STEREO/MONO** switch to **STEREO** or **MONO** position.
- 7) Adjust each speaker's **VOLUME** Control and Tone Control Knobs to a comfortable listening level to meet your personal preference.

Be sure to turn off the speakers and transmitter when you are not using them.

TRANSMISSION AUTO ON/OFF

The transmitter has a built-in automatic transmit **ON/OFF** controller. When the AC adapter is correctly plugged in and the transmitter receives the audio signals from the audio source, the power LED of the transmitter is on and lights green, it means you can enjoy the music from the transmitter. The transmission doesn't stop until the transmitter doesn't receive the audio signals from the audio source for about 1 minute. At that time, the power LED of the transmitter will be off

CHANNEL SELECT

The popular 900 MHz High Frequency Technology is being widely applied to Mobile Phones, Cordless Telephones and many more items to come. If you receive interference from some of these devices, you might be able to reduce the interference by switching from one channel to another. There are altogether 3 channels in this system. Simply adjust the transmitting frequency from the Transmitter by switching to an appropriate channel, then set the each speaker to the same channel. The built in Phase Locked Loop (PLL) circuit will prevent the system from drifting. You do not have to fine tune your Speakers constantly in order to be tuned in for good sound reproduction.

BATTERY OPERATION SPEAKERS

The speaker may be powered using 8 pieces of D size alkaline batteries. These batteries allow up to 8 hours of continuous operation without the need for AC power.

Unplug the AC adapter, the batteries can automatically power on the speaker. When the AC adapter is used, the batteries are automatically disconnected from the speaker and shall not be used to power the speaker.

When the batteries' power begins to decrease, you will see the power LED of the speaker blinking. This indicates that you have to replace the batteries. If left unattended, the speaker will be automatically turned off after a period of time.

TROUBLESHOOTING

If you follow all the instructions in this manual, you should have no problem with your 40-5029 Wireless Speaker System. However, in case you can not make the system work, please read the TROUBLESHOOTING section carefully. Do not return to your dealer immediately! Check and follow these guides- you probably can resolve your problems without much difficulty.

PROBLEMS	SOLUTIONS
No sound	Be sure the speakers are turned on.
	Replace the speakers' batteries.
	Be sure the AC adapter is plugged in and has power.
	Be sure all cables are securely connected.
	Be sure the audio source is turned on and turned to an active channel.
	Be sure the source's volume control is turned up.
	Be sure the speakers and transmitter are set to the same channel.
	Adjust the speakers' volume control.
Distorted audio	Be sure the speakers and transmitter are set to the same channel.
	If you connected the transmitter to an audio source's headphone jack, reduce the audio source's volume.
	Change the position of the transmitter.
	The speakers are placed beyond the transmitter's effective range (Approximately 150 feet). You need to bring the Speakers closer to the Transmitter.
	The transmitter is located too close to the screen of your TV set or Computer Monitor (The Screens' magnetic field can cause some interference to the Transmitter).
	Other 900 MHz transmissions are being picked up by the Speaker's receiver. (Likely from a nearby 900MHz cordless telephone). To avoid such interference, change to a new Frequency Channel for the Speakers and the Transmitter.
	The batteries on your sound source are too low and should be replaced.
	Check the battery levels of your speakers. The batteries may be exhausted and need to be replaced.

THE FCC WANTS YOU TO KNOW

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the *FCC Rules*. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult your local RadioShack store or an experienced radio/TV technician for help.
- If you cannot eliminate the interference, the FCC requires that you stop using your intercom system.

Changes or modifications not expressly approved by RadioShack may cause interference and void the user's authority to operate the equipment.

CARE

Keep the station dry; if it gets wet, wipe it dry immediately. Use and store the station only in normal temperature environments. Handle the station carefully; do not drop it. Keep the station away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

SPECIFICATIONS

Transmitter

Carrier Frequency...911.4---918.4 MHz
Power Source...12V DC, 250 mA
Modulation Method...FM Modulation
Frequency Response...80 Hz---20 kHz (6 dB)

Speaker

Sensitivity<2 uV (with 20 dB S/N)
S/N Ratio (@-50dBm)>=70 dB (A weight)
Audio Distortion.....<2%
Max. Audio output.....>=10W

Power requirement

- a) AC adapter (AC 120/60Hz ~DC 12V 1800mA) supplied
- b) DC 8XD Size 1.5V Alkaline Batteries (Not supplied)

P/N: AO0129AAA1