

OPTIMUS®

Cat. No. 12-1717

Three-Way Flush-Mount Car Speakers

Your Optimus Three-Way Flush-Mount Car Speakers provide clean sound and each speaker can handle up to 30 watts. The panel-mount design lets you easily mount the speakers so that they are flush with the mounting surface. To get the best sound from your speakers, read this entire manual carefully for the proper wiring and mounting procedure.

BEFORE YOU BEGIN

We recommend that you wire the speakers to your sound system before you mount the speakers so that you can test the speakers and the wire connections. Then, disconnect the wires, route the wires, and mount the speakers.

Note: If you are unsure about wiring or mounting, we suggest you have a professional install the speakers.

WIRING THE SPEAKERS

All RadioShack autosound systems come with four color coded speaker wires. The following chart shows RadioShack's standard color codes.

Speaker Terminal	Wire Color
Left Positive (+)	Green
Left Negative (-)	White
Right Positive (+)	Brown
Right Negative (-)	Gray

Connect your stereo's speaker wires to the speakers, using the color-code chart as a guide. Then, turn on your stereo to be sure that you properly connected the speakers.

Note: Other autosound systems are also equipped with four wires but the wires might not use the same color codes. If your autosound system is a brand other than Radio Shack, check the owner's manual for the speaker wire color codes.

Caution: Do not connect any of your speaker wires to the chassis ground. Use all four wires to connect the speakers to your vehicle's auto sound system.

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Two-Speaker System

MOUNTING THE SPEAKERS

Four-Speaker System

Follow these steps to mount the speakers.

1. Remove the door panel you want to mount the speaker on and find a location where the speaker will fit. Most vehicles have a prepared cut-out area in the door for speaker placement. Use the supplied template to be sure the location you choose is large enough for the speaker opening.

Note: To be sure the speaker will not interfere with your vehicle's window mechanism, roll down your vehicle's window completely. If the window has a hand crank, be sure the speaker will not hinder you from turning the crank.

Notes:

- Be sure you match the speaker wires to their corresponding positive (+) or negative (–) speaker terminals to ensure proper phasing. Improper phasing can cause poor bass response.
- If your speaker system includes rear speakers, the same color code applies. If your auto sound system has a front to rear fader, connect your speakers as follows:

2. Mark the mounting hole locations and outline the speaker on the door panel using the supplied template.



3. Drill a starter hole inside the outlined area. Carefully remove the area you marked, using a razor, tin snip, or a hacksaw blade.

6. Replace the door panel. Then, pull the wires through the hole you made for the speaker and connect the wires to the speaker's terminals. See "Wiring the Speakers."

4. Drill three $\frac{1}{8}$ -inch mounting holes.

7. Mount the speaker as needed.

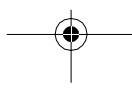
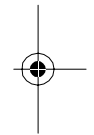
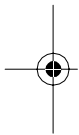
- If you mount the speaker on a metal surface, align the mounting holes on the speaker with the three drilled holes and secure the speaker with the supplied screws.
- If you mount the speaker on a non-metal surface, insert the three supplied speed clips into the mounting holes to ensure a firm mount and to protect the mounting holes. Then align the mounting holes on the speaker with the three drilled holes and secure the speaker with the supplied screws.

5. Disconnect the wires from the speakers and route them from your sound system through the door sill and to the speaker's mounting location. You might need to drill a hole to route the wire through the door sill. Some cars have predrilled holes and rubber tubes for routing wires.

Cautions:

- Be sure you allow enough slack in the wire to prevent pulling the wire from the speaker when you open the door all the way.
- Tape any exposed wire to prevent the wire from being pinched or cut when the door is closed.

8. Align the speaker grille with the speaker and press it onto the speaker until it snaps into place.



SPECIFICATIONS

Woofer	5 1/4 Inch
Midrange	2 Inch
Piezo Tweeter	1 Inch
Magnet Weight.....	17.72 oz (502.65 g)
Power-Handling Capability	30 Watts Each
Impedance	4 Ohms
Frequency Response	70 Hz–20,000 Hz
Sensitivity	90 dB 1 Watt 50cm

Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.

Limited Ninety-Day Warranty

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