

**CS2104**  
**CS2105**  
**CS2106**  
**CS2164**  
**CS3108**  
**CS3110**  
**CS3196**  
**CS4196**

MULTIELEMENTS  
OWNER'S MANUAL

**JBL**

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**CS SERIES**

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## THANK YOU

for purchasing JBL CS Series automotive speakers. We've organized this manual to make your installation as simple and trouble-free as possible. Please read it thoroughly before proceeding. Remember to keep your sales receipt and this manual in a safe place so both are available for future reference.

## INSTALLATION WARNINGS AND TIPS

### ABOUT THESE INSTRUCTIONS

Installation of automotive stereo components can require extensive experience with a variety of mechanical and electrical procedures. Although these instructions explain how to install CS Series multielement speakers in a general sense, they do not show the exact installation methods for your particular vehicle. If you do not feel you have the experience, do not attempt the installation yourself, but instead ask your authorized JBL car audio dealer about professional installation options.

### LOUD MUSIC AND HEARING

Playing loud music in an automobile can hinder your ability to hear traffic as well as permanently damage your hearing. The maximum volume levels achievable with JBL speakers, combined with high power amplification, may exceed safe levels for extended listening. We recommend using low volume levels when driving. JBL accepts no liability for hearing loss, bodily injury, or property damage as a result of use or misuse of this product.

### REAR DECK PRECAUTION

In some cars, fuel tanks may be located directly beneath the rear deck. Before installation, make sure there is adequate speaker basket clearance before considering this location!

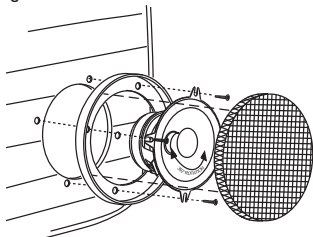
### INSTALLATION TIPS

- Always wear protective eyewear when using any tools.
- Turn off all audio components and other electrical devices before you start. Disconnect the (–) negative lead from your vehicle's battery.
- Keep speakers in their package until final installation. When moving a speaker, always rest it with the cone or dome facing up. Never use force to install any speaker.
- Check clearances on both sides of a planned mounting surface before drilling any holes or installing any screws. Remember that the screws can extend behind the surface.
- At the installation sites, locate and make a note of all fuel lines, hydraulic brake lines, vacuum lines and electrical wiring. Use extreme caution when cutting or drilling in and around these areas.

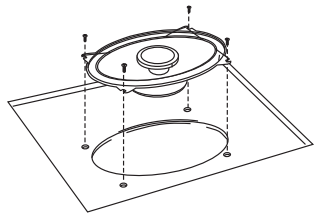
- Before drilling or cutting holes, use a utility knife to remove unwanted fabric or vinyl, to keep material from snagging in a drill bit or saw.
- For door installations, check the clearance with the windows throughout the range of the window's travel, and verify that a mounted speaker will not interfere with the window crank or power window mechanism.
- If mounting speakers elsewhere, check for clearance around rear deck torsion bars, glove box or other structural elements.
- Do not mount speakers where they will get wet.

## INSTALLATION

**Figure 1.** Mounting the speaker (except CS2164) using the supplied grilles.

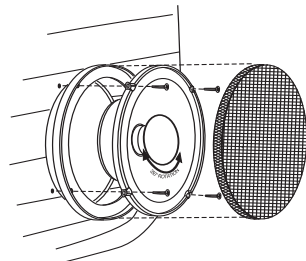


**Figure 2.** Mounting the CS2164.

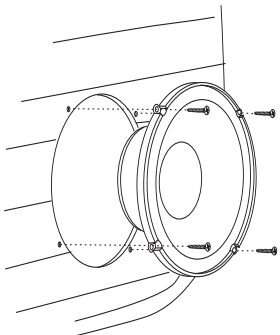


**NOTE:** The CS2164 is designed to be installed under a factory grille. Consequently, no grilles are packaged with this model.

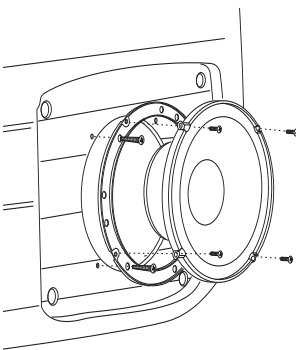
**Figure 3.** Mounting the CS2106 using the supplied grille.



**Figure 4.** Mounting the CS2106 in a 165mm speaker location.



**Figure 5.** Mounting the CS2106 in a standard speaker location.



**NOTE:** The CS2106 uses an adaptor to fit a variety of different 6" openings. Select an appropriate adaptor ring and secure it to the vehicle using the sheet-metal screws provided, then attach the speaker to the ring with the machine screws.

## SPECIFICATIONS

	<b>CS2104</b>	<b>CS2105</b>	<b>CS2106</b>	<b>CS2164</b>	<b>CS2165</b>	<b>CS3108</b>	<b>CS3110</b>	<b>CS3196</b>	<b>CS4196</b>
Type	4" two-way	5-1/4" two-way	6-1/2" two-way	4" x 6" two-way	165mm two-way	8" three-way	10" three-way	6" x 9" three-way	6" x 9" four-way
Speaker Impedance	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms	4 ohms
Power Handling	90W Peak, 30W RMS	90W Peak, 30W RMS	120W Peak, 40W RMS	90W Peak, 30W RMS	120W Peak, 40W RMS	210W Peak, 70W RMS	270W Peak, 90W RMS	210W Peak, 70W RMS	210W Peak, 70W RMS
Sensitivity (2.83V, 1m)	90dB	91dB	91dB	90dB	91dB	91dB	92dB	91dB	91dB
Frequency Response	85Hz – 20kHz	70Hz – 20kHz	55Hz – 20kHz	75Hz – 20kHz	55Hz – 20kHz	50Hz – 20kHz	45Hz – 20kHz	50Hz – 20kHz	50Hz – 21kHz
Mounting Depth	1-7/8" (48mm)	2-1/4" 2-1/4"	2" (51mm)	1-11/16" (43mm)	2-3/8" (61mm)	3" (77mm)	4-3/16" (107mm)	3" (77mm)	3" (77mm)
Cut-Out Diameter	3-5/8" (91mm)	4-11/16" (120mm)	5-1/8" (131mm)	5-3/4" x 3-5/16" (147mm x 85mm)	5-11/16" (145mm)	7-3/16" (183mm)	9-3/16" (234mm)	8-13/16" x 6" (224mm x 153mm)	8-13/16" x 6" (224mm x 153mm)

### GENERAL CARE

The loudspeaker grilles may be cleaned with a damp cloth. Do not use any cleaners or solvents on the grilles or the speaker cones.

A valid serial number is required for warranty coverage.

Features, specifications and appearance are subject to change without notice.

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Part No. CSME0M7/05

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