



# 1 Pair VR690 6" X 9" Speakers

## Read First!

Dear Customer,  
CONGRATULATIONS.

The VR690 6" x 9" 3-way speakers, when used as described, will give you years of dependable service in your car, truck, RV, or mini-van. We have taken numerous measures in quality control to ensure that your product arrives in top condition, and will perform to your satisfaction. In the rare event that your VR690 6" x 9" 3-way speakers contains a damaged or missing item, does not perform as specified, requires warranty service, or you have an installation problem, **DO NOT RETURN THIS PRODUCT TO THE STORE. PLEASE CALL OUR TOLL-FREE NUMBER FROM THE U.S.A. AND CANADA 1-800-445-1797** and ask to speak with a member of our technical service team, or submit your questions by e-mail to customerservice@vr-3.com and a member of our technical service team will respond by e-mail to your questions. Our in-house technical service team will expedite delivery of your part, advise you on installation, or help troubleshoot a problem with you. If your product needs warranty service, our technical service team representative will help you obtain the fastest remedy possible under the warranty.

## Specifications

- Weather Resistant Polypropylene Coated Cones
- 20 Oz. Magnet per Speaker ±10%
- Foam Rubber Surrounds
- 400 Watts Total Maximum Power per Pair
- 80 Watts RMS per Pair
- 50 - 20,000 Hz Frequency Response
- Bridgeless 2.25 Mylar Midrange speakers
- 1" Mylar Dome Tweeters
- Push On Spade Terminals
- 4 Ohm Impedance per Speaker

## Parts



2 - 6" X 9" Speakers



8 - Spring Nuts



8 - Screws



2 - Speaker Grills

## Tools Needed to Install



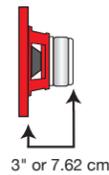
## Before You Install

Automotive audio equipment installations can be troublesome at times, even to the most experienced of installation technicians. If you are not confident working with electrical wiring, removing and reinstalling interior panels, carpeting, dashboards or other components of your vehicle, please call our toll-free help line 1-800-445-1797 and our in-house technical service team will answer your installation questions.

Before permanently installing the VR690 speakers in your car, connect the wires to the speakers according to your audio system's installation manual, in the approximate location you will install them. If you are satisfied with the location, proceed with the permanent installation.



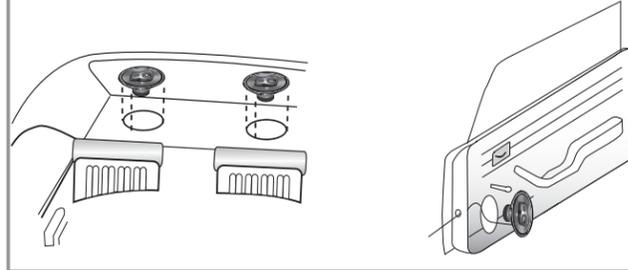
Before you install the VR690 speakers you must make sure you have enough depth/space behind the mounting surface. You do not want the back of the speaker magnet to touch any part of your vehicle, or interfere with the operation or function of any component in your vehicle. (ie. windows or trunk lid)



3" or 7.62 cm

## 1. Location of Speakers

The placement of the speakers will vary from vehicle to vehicle. Most vehicles have factory cut-outs on the rear window deck behind the rear seat, in the front doors, or front kick panels. Before permanently installing the VR690 speakers in your car, connect the wires to the speakers according to your audio system's installation manual, in the approximate location you will install them. If you are satisfied with the location proceed with the permanent installation.



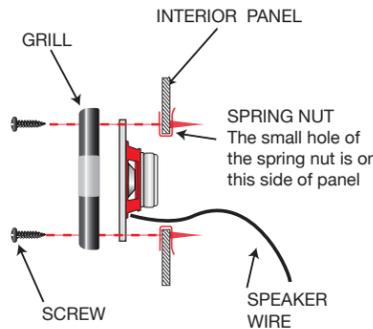
## 2. Mounting The Speakers



You should only mount your speakers in factory precut holes. We DO NOT recommend that you cut holes for mounting the speakers. If there are no factory precut holes, consider having the speakers professionally installed.

### In a Precut Hole

1. Connect speaker wires.
2. Slip the spring nut(s) (provided) into place and align the holes.
3. Place the speaker grill on the speaker, then put the supplied screws through the screw holes of the speaker grill and speaker. Align the screws with screw holes of the spring nuts.
4. Tighten the screws, but not so tight as to crack the plastic of the speaker grills.



### In an Enclosure

The VR690 may be installed in an enclosure. Use the supplied template to check if the holes in the enclosure match the speaker. If the holes do not match up, mark the enclosure using the template as a guide, then drill pilot holes.



All auto audio components must be securely mounted. Driving styles and road conditions such as sudden stops, sharp curves, and bumpy roads may cause unsecured items to move about the vehicle, causing physical injuries to vehicle occupants and/or vehicle damage.

## 3. Connecting The Wires

When connecting the speaker wires to your speakers in a new installation, you should follow the wiring instructions from your audio system's manufacturer. For most systems the positive wire attaches to the positive speaker terminal and the negative wire attaches to the negative terminal.

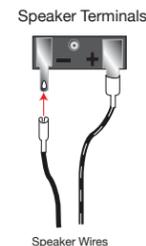
### To Strip Insulation from Wire:

Strip a fingertip's width of insulation from end of speaker cable. Twist strands of wire together.



### To Attach Wires to Terminals:

Maintain proper polarity by attaching the Positive Wire (+) to Positive Terminal (+) and the Negative Wire (-) to Negative Terminal (-).



## Frequently Asked Questions

### What if there is no sound?

Your stereo may have a blown fuse. Replace fuse with the same amperage and style. You may have improper wiring. Refer to the wiring guide that came with your stereo/amplifier. Check all wires for a secure connection.

### What if the sound volume is low?

Your stereo may not have enough power. You may have to install an amplifier to drive the speakers.

### Why do I have a whining noise coming from the speakers?

You may have poor filtering of your alternator. If that is the case, then you may need to add an alternator filter to the power lead.

### Why do I have odd sounding noises coming from the speakers?

You may have corroded battery terminals and/or a weak battery. If the terminals on the battery are corroded, clean them; then check the sound. If the sound system is still making noises, then check battery strength. If it is low, then recharge or replace the battery.

### Why does the speaker have sound coming from one channel only?

First make sure the balance control is set correctly. If the balance is set correctly, your stereo may be defective or the speaker may be defective. To troubleshoot this problem you MUST change both positive and negative leads of each channel with the positive and negative leads of the opposite channel. If the same speaker has no sound, then the speaker is no good. If the opposite speaker has no sound, then your stereo may be defective.

## Give Us A Call, We'll Help You Install



PLEASE DO NOT RETURN PRODUCT TO STORE.

For Help Go To

# WWW.VR-3.COM

For Information and Technical Assistance,  
Call Toll-Free in U.S.A., Puerto Rico, and Canada.  
1-800-445-1797

## Notes

## Limited Warranty

VIRTUAL REALITY SOUND LABS® products are designed and manufactured to provide a high level of trouble-free performance. VIRTUAL REALITY SOUND LABS® warrants, to the original purchaser, that its products are free from defects in material and workmanship for 30 days from the date of original purchase, as part of our commitment to product excellence VIRTUAL REALITY SOUND LABS® and/or its affiliates routinely improves the designs, materials or production methods of its existing products. Because it is impractical to publicize all changes in every product, we reserve the right to make such changes without notice.

### CONDITIONS OF WARRANTY:

If during the 30 day warranty period your new product is found to be defective, VIRTUAL REALITY SOUND LABS® will repair such defect, or replace the product, without charge for parts or labor subject to the following conditions:

1. All repairs must be performed by VIRTUAL REALITY SOUND LABS® and/or its affiliates in Eatontown, New Jersey.
2. The equipment must not have been altered or been damaged through negligence, accident, or improper operation.
3. The replacement of parts are exempted from this warranty when replacement is necessary due to normal wear and tear.
4. All warranty claims must be accompanied by a copy of the sales receipt or bill of sale.
5. Repair or replacement parts supplied by VIRTUAL REALITY SOUND LABS® under this warranty are protected only for the unexpired portion of the original warranty.
6. In the case of car stereos, this warranty does not extend to the elimination of car static or motor noise; correction of antenna problems; costs incurred for the removal or reinstallation of the product; damage to tapes, speakers, accessories or car electrical systems.
7. VIRTUAL REALITY SOUND LABS® will not be responsible for any charge incurred for installation.

### OWNER'S RESPONSIBILITIES:

VIRTUAL REALITY SOUND LABS® will make every effort to provide warranty service within a reasonable period of time. SHOULD YOU HAVE ANY QUESTIONS ABOUT SERVICE RECEIVED, OR IF YOU WOULD LIKE ASSISTANCE IN OBTAINING SERVICE, PLEASE CALL TOLL FREE 1-800-445-1797, 8:30am - 4:30pm EST.

### In order to provide you with the proper warranty service, we request that you adhere to the following procedure:

1. Include a copy of your sales receipt or bill of sale with your unit when it is returned for warranty service.
2. If it is necessary to return your product for service, please return it securely packed, preferably in the original shipping carton, and freight and insurance prepaid to the following address: **VIRTUAL REALITY SOUND LABS, Service Department, 41 James Way, Eatontown, New Jersey 07724.**
3. Please include a detailed explanation of the problem you are having.
4. If your product is found by VIRTUAL REALITY SOUND LABS® to have a defect in material or workmanship, within the warranty period, it will be repaired or replaced at no charge and returned to you prepaid. Where permitted by law VIRTUAL REALITY SOUND LABS® liability shall be limited to that set forth in this warranty. This warranty shall be the exclusive remedy of the purchaser. VIRTUAL REALITY SOUND LABS® makes no other warranty of any kind, expressed or implied; and all implied warranties, are hereby disclaimed by VIRTUAL REALITY SOUND LABS® and excluded from this warranty. VIRTUAL REALITY SOUND LABS® and/or its affiliates, the manufacturer, distributor and seller shall not be liable for any injury, loss or damage, incidental or consequential, arising out of the use or intended use of the product.