

<b>VSPGCHE</b>	<b>Vehicle Specific Punch Jeep Grand Cherokee '93+</b>	<b>Specification Reference Sheet</b>
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## FEATURES

### VSP ENCLOSURE

- **Vehicle Specific** – Custom molded to fit into the right rear cargo pocket.
- **Acoustic Suspension Enclosure** – The VSP enclosure uses an acoustic suspension design (sealed) for optimum performance. The enclosure is matched to the woofer for deep bass output while requiring minimal operating space.
- **Roto-Molded Urethane Construction** – The use of Roto-Mold manufacturing produces a composite enclosure with seamless construction. This greatly increases rigidity to prevent the enclosure from flexing and allows custom designs to be fabricated. The result is a radical, stronger, more reliable enclosure.
- **Aluminum Voice Coil Former** – The voice coil is made of multiple layers of copper wound on a black, anodized aluminum former. This improves the speaker's power handling by efficiently dissipating heat from the voice coil.
- **Hyper-Extended Pole Piece** – The pole piece has been extended to provide a more linear magnetic field for the operation of the woofer. This lowers distortion and provides the woofer with better low frequency response.
- **Vented Bumped Back Plate** – The back plate has been stepped deeper to allow the woofer more excursion for harder hitting bass. Additionally, the back plate is vented with a radiused aerodynamic vent that efficiently and quietly keeps the voice coil cool.

### PUNCH WOOFER

- **PVA Cone** – The cone material used is spruce pulp paper and provides the necessary combination of weight and strength to allow high levels of output without cone break up. The cone is also treated with a water resistant PolyVinyl Acetate (PVA) Emulsion which increases cone rigidity and lowers distortion.

## SPECIFICATIONS

<b>VSP Enclosure</b>		
Frequency Response .....	24Hz-400Hz	LE .....
Overall Dimensions .....	16"H x 33"W x 9"D (40.64cm x 83.82cm x 22.86cm)	QMS .....
Weight (woofer supplied) .....	26 lbs. (11.79kg)	QES .....
		QTS .....
		VAS (ft <sup>3</sup> /liter) .....
		XMAX (in/mm) .....
		SPL (dB @ 1w/1m) .....
		Power Handling (RMS/Peak) .....
		Speaker Displacement (ft <sup>3</sup> /liter) .....
<b>Punch Woofer</b>		
Speaker Model .....	RFP-1410	
Nominal Impedance .....	4Ω	
Fs .....	24Hz	
RE .....	3.6Ω	

## ACCESSORY PACK

- |                         |                                 |                         |                                       |
|-------------------------|---------------------------------|-------------------------|---------------------------------------|
| (1) Input Terminal Cup  | (2) 3/8" – 16 x 1 1/4" Bolts    | (2) 3/8" Lock Washers   | (8) #10-32 x 3/4" Allen Screws        |
| (4) Phillips Screws     | (2) 3/8" ID x 1 1/2" OD Washers | (2) 4" x 4" Wax Squares | (24") Red/Black 16 gauge Speaker Wire |
| (4) Foam Woofer Gaskets | (1) Pre-formed MDF Grille       |                         |                                       |



*Specifications subject to change without notice*

The Vehicle Specific Punch (VSP) enclosure is supplied in kit form to allow custom finishing techniques. The unfinished surface enables matching paint or carpet to be applied to the enclosure for seamless integration into the vehicle's interior. In addition, the input terminal cup can be positioned in the desired location where speaker wires can be conveniently routed from the amplifier to the enclosure.

### IMPORTANT – Please follow these instructions carefully!!

*The VSP enclosure is specially molded to fit particular vehicles. Be sure to attach the enclosure to the vehicle as specified in this installation sheet for optimized bass output. Failure to install the enclosure as specified in this document may allow the enclosure to become detached from the vehicle and possibly cause personal injury.*



Always use eye protection when drilling.



Never run wires underneath the vehicle. Run wires inside the vehicle and use rubber or plastic grommets to protect wires routed through metal.

#### VSP ENCLOSURE PREPARATION

1. Select the desired location for the speaker terminal cup, and with a hole saw, cut a 2" diameter hole.
2. Using the speaker terminal cup as a template, mark the holes used to secure the cup to the enclosure. Remove the cup and drill pilot holes using a 3/32" drill bit.
3. Carpet or paint the enclosure and the speaker grille to your desired color theme.
4. Connect the supplied speaker wire to the appropriate (+) and (-) terminals of the speaker cup. Connect the RED wire to the (+) terminal and the BLACK wire to the (-) terminal.
5. Secure the speaker terminal cup to the enclosure using the (4) supplied Phillips screws. Connect the speaker wires to the woofer and secure the woofer to the enclosure. **Be sure to maintain proper speaker polarity.**



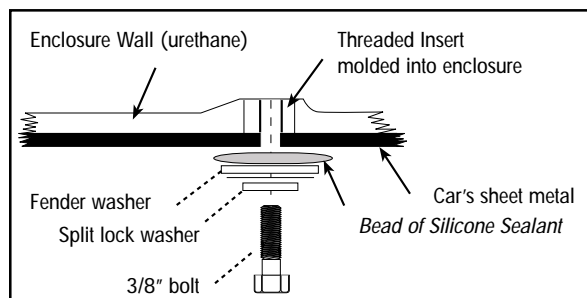
## VEHICLE PREPARATION

6. The VSP enclosure will be located in the right rear cargo pocket. Be sure to remove any obstructions for proper installation.
7. Permanently remove the retainer net from the cargo pocket. Note that the trim ring does not have to be removed.
8. Thread the supplied bolts fully into the VSP enclosure and test fit the enclosure in the vehicle.
9. Remove the backing from the wax squares and place them under the bolts. Press down firmly on the enclosure to make an impression of the bolt heads into the wax squares. Making sure not to move the wax squares, carefully remove the enclosure from the vehicle.
10. Check under the vehicle for brake or hydraulic lines before proceeding. Using a 1/2" diameter drill bit, drill the holes through the fender well and the floor board using the wax squares as your template.



## VSP ENCLOSURE INSTALLATION

11. Connect the proper (+) and (-) speaker terminals from the amplifier to the enclosure.
12. The next procedure will require 2 people. While one person is positioning the VSP enclosure, the second person should insert the long bolts from the underside of the vehicle. Put a bead of silicone sealant between the car sheet metal and the washers. Screw the bolts into the enclosure's threaded inserts and tighten them. **DO NOT OVERTIGHTEN.**



13. After the bolts are tightened, spray rubberized undercoating over the bolts and over any bare metal. This will prevent the metal from rusting and will prevent the bolts from loosening due to vibrations.
14. Install the speaker grille onto the VSP enclosure. After the carpet and grille are finished as described in Step 3, the speaker grille should fit securely.
15. If necessary, fine tune the system to find the proper bass level for your new VSP woofer enclosure.



# LIMITED WARRANTY INFORMATION

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Rockford Corporation offers a limited warranty on Rockford Fosgate products on the following terms:

- **Length of Warranty**

1 year on VSP speakers (not the entire enclosure)

- **What is Covered**

This warranty applies only to Rockford Fosgate products sold to consumers by Authorized Rockford Fosgate Dealers in the United States of America or its possessions. Product purchased by consumers from an Authorized Rockford Fosgate Dealer in another country are covered only by that country's Distributor and not by Rockford Corporation.

- **Who is Covered**

This warranty covers only the original purchaser of Rockford product purchased from an Authorized Rockford Fosgate Dealer in the United States. In order to receive service, the purchaser must provide Rockford with a copy of the receipt stating the customer name, dealer name, product purchased and date of purchase.

- **Products found to be defective during the warranty period will be repaired or replaced (with a product deemed to be equivalent) at Rockford's discretion.**

- **What is Not Covered**

1. Damage caused by accident, abuse, improper operations, water, theft
2. Any cost or expense related to the removal or reinstallation of product
3. Service performed by anyone other than Rockford or an Authorized Rockford Fosgate Service Center
4. Any product which has had the serial number defaced, altered, or removed
5. Subsequent damage to other components
6. Any product purchased outside the U.S.
7. Any product not purchased from an Authorized Rockford Fosgate Dealer

- **Limit on Implied Warranties**

Any implied warranties including warranties of fitness for use and merchantability are limited in duration to the period of the express warranty set forth above. Some states do not allow limitations on the length of an implied warranty, so this limitation may not apply. No person is authorized to assume for Rockford Fosgate any other liability in connection with the sale of the product.

- **How to Obtain Service**

Please call 1-800-669-9899 for Rockford Customer Service. You must obtain an RA# (Return Authorization number) to return any product to Rockford Fosgate. You are responsible for shipment of product to Rockford.

Ship to: **Electronics**  
Rockford Corporation  
Warranty Repair Department  
2055 E. 5th Street  
Tempe, AZ 85281  
RA#: \_\_\_\_\_

Ship to: **Speakers**  
Rockford Acoustic Design  
(Receiving-speakers)  
609 Myrtle N.W.  
Grand Rapids, MI 49504  
RA#: \_\_\_\_\_

## MADE IN THE USA

This product is designed, developed and assembled in the USA by a dedicated group of American workers. The majority of the components used in the construction of this product are produced by American companies. However, due to the global nature of their manufacturing facilities and the electronics parts industry in general, some parts may be manufactured in other countries.

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