

MasterSheet

055 0025
Revision 12/01/21



Complete Car Audio
Installation Instructions
CRUTCHFIELD®

IMPORTANT

Before starting, compare items on your invoice with items received.
Carefully check through packaging material. If any item is missing,
please call **Crutchfield Technical Support** at **1-800-955-9094**.

Although reasonable attempts are made to verify the accuracy of the information contained in this MasterSheet, it is presented without warranties or guarantees of any type due to the constantly changing nature of this type of information and running changes in vehicle production. Any person or entity using this information does so at his or its own risk. If you find our instructions are different from your vehicle, or if you have questions, do not continue with your installation. Contact our toll-free technical support for assistance.

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10	Cargo Floor Subwoofer	✓	✓				✓			✓			
11	Wire Splicing Guide												✓
		T15	T20	T30	Small Flat Blade Screwdriver	10mm Open-End Wrench	Panel Tool	Drill & 3/16" Bit	VW Radio Removal Tools	Phillips Screwdriver	Pliers	Hack Saw	Wire Strippers & Crimp Caps
		Torx Driver											

Tools Required ▶

IMPORTANT: Disconnect negative battery cable before all operations in order to avoid an electrical short or accidental airbag deployment.

Note: At this time, no aftermarket antenna is available from Crutchfield. A replacement antenna may be purchased from a local dealership.

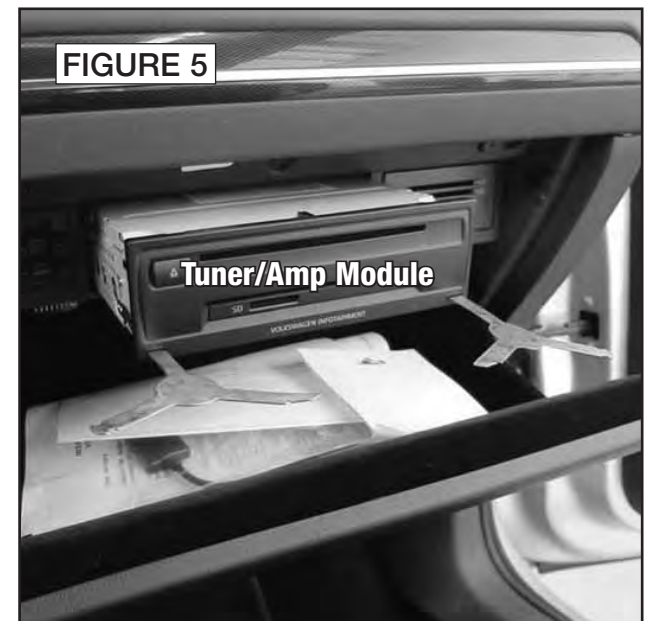
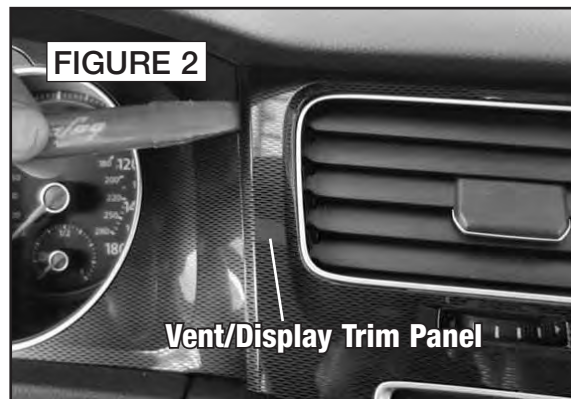
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Factory Radio Removal

1. Before proceeding, remove media from factory unit if present.
2. Set parking brake and disconnect negative battery cable to prevent any electrical short.
3. Open lower dash storage pocket.
4. Pry off climate control trim panel to release ten (10) clips and remove (Figure 1).
5. Pry out vent/display trim panel to release clips and remove (Figures 2 & 3).
6. Insert radio removal tools into slots in display, then spread tools apart to release display. Disconnect wiring harnesses and remove display (Figure 4).
7. Open glove box door. Insert radio removal tools into slots in tuner/amp module. Spread tools apart to release. Disconnect wiring harnesses and remove module (Figure 5).



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OEM Integration

This page addresses integrating aftermarket accessories such as CD Changers, Auxiliary Input Adapters, iPod® Adapters, etc., with a factory radio system.

1. Remove factory tuner/amp module following instructions on the previous page.
2. Follow instructions supplied with the accessory device.
3. Connect optional adapter to input as shown.
4. **IMPORTANT:** Reconnect all wiring harnesses including airbag, then reconnect battery. Test operation of adapter and reassemble dash by reversing disassembly steps.



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Receiver Installation -- Vehicles without Fender Only

NOTES:

Please read first

- Check to make sure the Crutchfield receiver wiring adapter plugs into the vehicle receiver harness. If the Crutchfield adapter is incorrect, please call our **Technical Support Department at 1-800-955-9094**.

A Double DIN unit is shown. A Standard DIN receiver may also be installed following these same steps.

Dash modifications must be done in order to install an aftermarket receiver. Follow the instructions supplied with the dash kit to make modifications.

1. Use a hack saw to cut out the forward and rearward bars across the dash opening described in the instructions supplied with the dash kit. **Note:** The dash opening is shown with bars removed (Figure 1).
2. Secure receiver to mounting bracket and install radio housing following instructions supplied with the dash kit.
3. Make wiring connections following instructions supplied with the receiver wiring interface.
4. Hold receiver assembly near dash. Connect receiver wiring interface to vehicle harness behind glove box. Using the antenna adapter, plug antenna adapter into vehicle connector behind glove box and into rear of receiver. Plug in any other accessories to be used with the receiver.
5. Slide assembly into dash and secure to radio housing (as shown in dash kit instructions).
6. Make sure the airbag light harness is connected. Reconnect battery and test receiver operation.
7. Insert vent panel into receiver trim panel and install trim panel (Figure 2).



CAUTION:

Always be careful when drilling or cutting in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check depth and location to avoid damage to vehicle appearance.



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Front Pillar Speakers



IMPORTANT

No speaker wiring adapter is available at this time from Crutchfield for this speaker location. It will be necessary to splice wires in order to install an aftermarket speaker.

No speaker adapter bracket is available at this time for this location. A mounting bracket must be fabricated in order to install an aftermarket speaker.

It is possible that the replacement speakers do not have screws supplied. It may be necessary to acquire mounting hardware.

1. Starting at the top edge, pry out pillar trim panel to release three (3) clips. Disconnect wiring harness and remove trim panel.
CAUTION: Clips are tight and will require considerable force to remove. Be careful to avoid damaging the pillar trim panel or the headliner (Figure 1).
2. Pry tweeter from pillar trim panel.
CAUTION: The tweeter is heat fused to the trim panel. Using a hack saw, cut at the fuse points, then carefully pry out tweeter to avoid damage.
3. Fabricate a speaker mounting bracket and secure new speaker to bracket.
4. Make wiring connections following instructions on page 11. Return to this page to complete installation.
5. Secure speaker/bracket assembly to location.
6. Test speaker operation and reassemble pillar area by reversing disassembly steps.

NOTES:

Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.

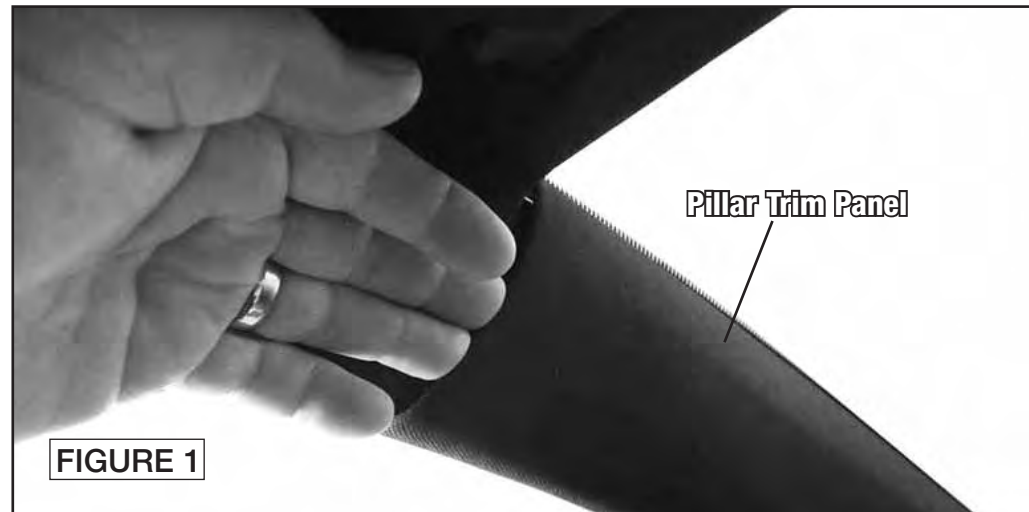


FIGURE 1

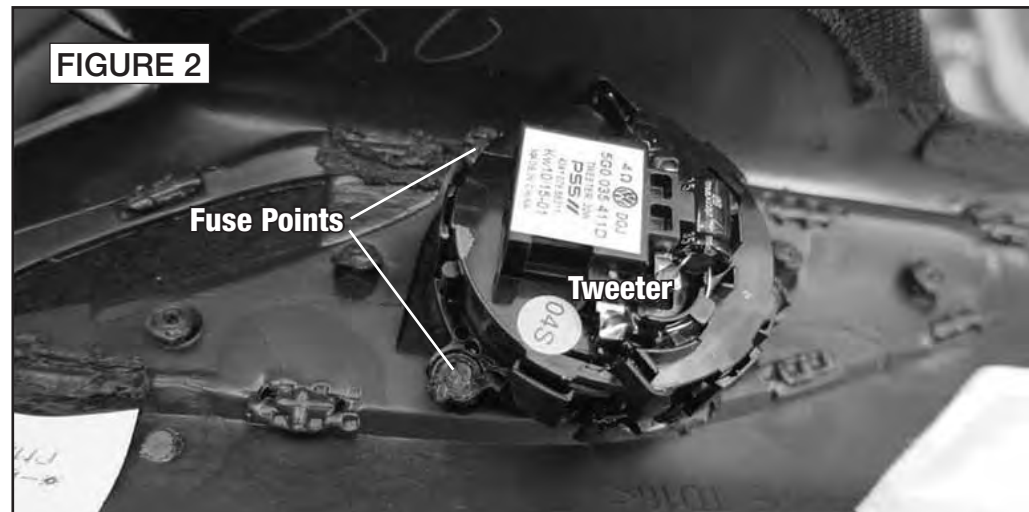


FIGURE 2



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Front Door Speakers



IMPORTANT

No speaker wiring adapter is available at this time from Crutchfield for this speaker location. It will be necessary to splice wires in order to install an aftermarket speaker.

It is possible that the replacement speakers do not have screws supplied. It may be necessary to acquire mounting hardware.

1. Pry off door pull outer cover to release clips and remove (Figure 1).
2. Remove one (1) Torx T30 screw exposed by removal of door pull outer cover (Figure 2).
3. Remove one (1) Torx T30 screw under armrest (Figure 3).
4. Using a 10mm open-end wrench, turn locking post to release (Figure 4).

Continued on the next page.



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NOTES:

Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.

FIGURE 1



FIGURE 2

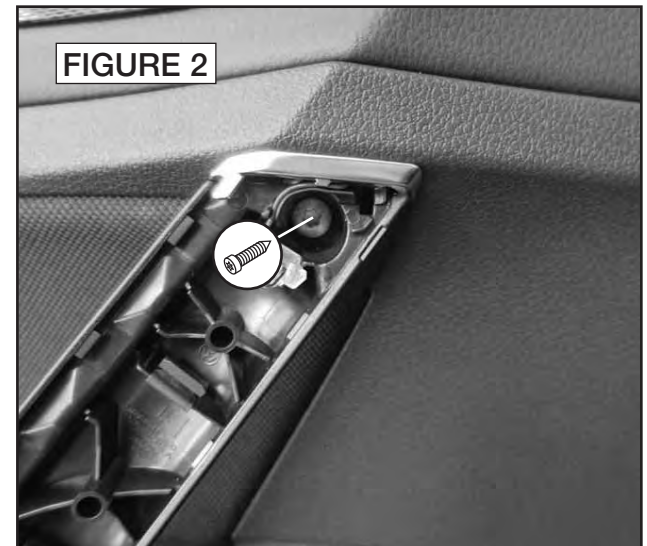


FIGURE 3

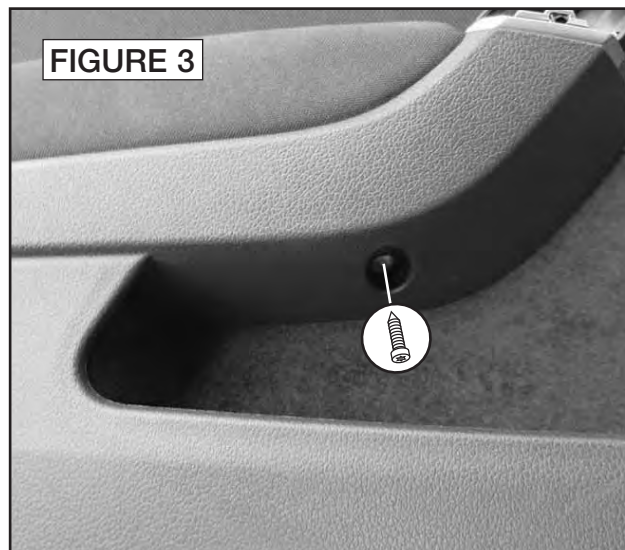


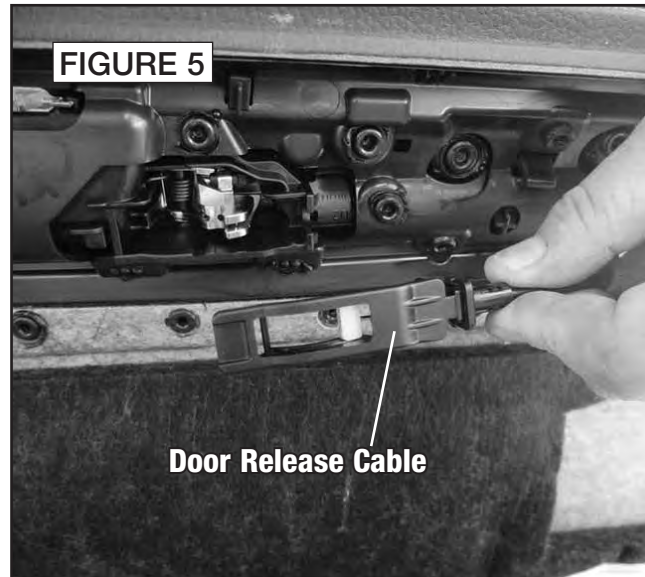
FIGURE 4



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Front Door Speakers (continued)

5. Pry out sides and bottom of door panel to release six (6) clips. Disconnect **door release cable** and wiring harnesses. Remove door panel (Figures 5 & 6).
6. Drill out four (4) **rivets** securing speaker with a 3/16" bit. Pull out speaker, disconnect and remove (Figure 7).
7. Secure speaker adapter bracket to location.
8. Make wiring connections following instructions on page 11. Return to this page to complete installation.
9. Secure speaker to adapter bracket.
10. Test speaker operation and reassemble door panel by reversing disassembly steps.

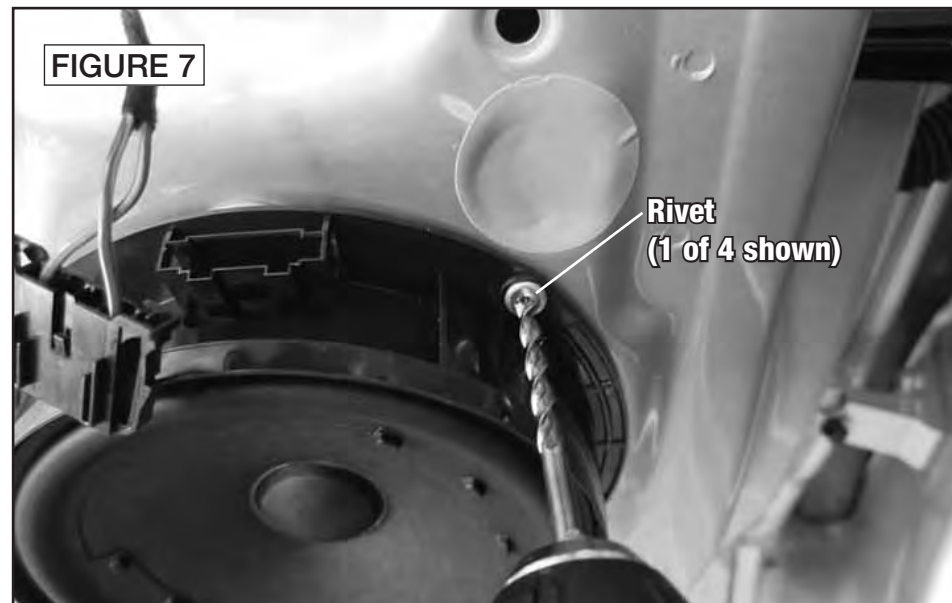


**CAUTION:**

Always be careful when drilling or cutting in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check depth and location to avoid damage to vehicle appearance.

**SAFETY CHECK**

- Check that wires do not interfere with window operation.
- Test door lock and release operation.



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Rear Door Speakers



IMPORTANT

No speaker wiring adapter is available at this time from Crutchfield for these speaker locations. It will be necessary to splice wires in order to install an aftermarket speaker.

No speaker adapter bracket is available at this time for the tweeter location. A mounting bracket must be fabricated in order to install an aftermarket speaker.

It is possible that the replacement speakers do not have screws supplied. It may be necessary to acquire mounting hardware.

1. Pry off door pull outer cover to release clips and remove. Remove one (1) Torx T30 screw exposed by removal of door pull outer cover (Figure 1).
2. Remove one (1) Torx T30 screw under armrest (Figure 2).
3. Pry off reflector lens, then turn Torx T30 locking post to release (Figures 3 & 4).

Continued on the next page.



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NOTES:

Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.

FIGURE 1

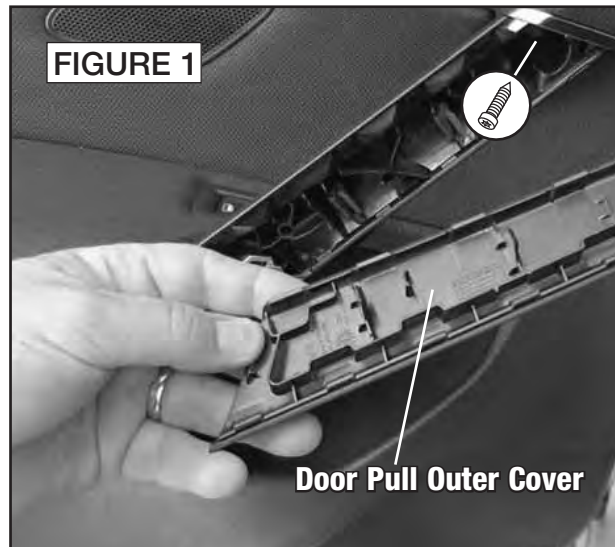


FIGURE 2

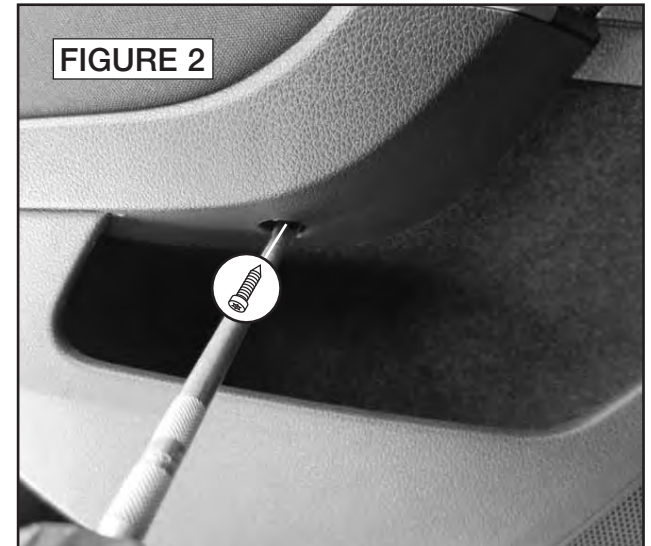


FIGURE 3

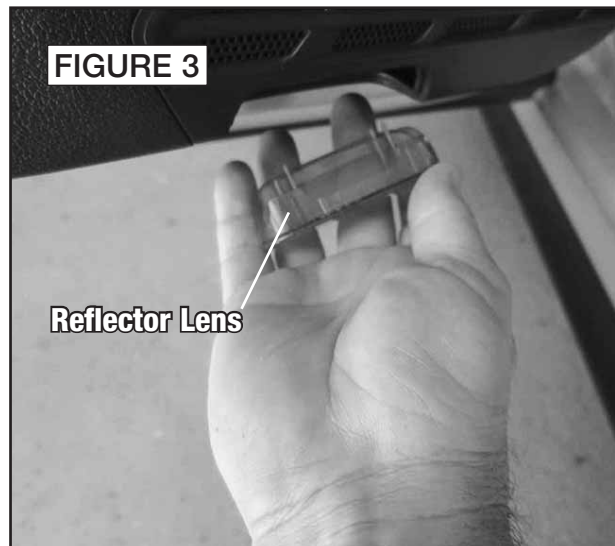
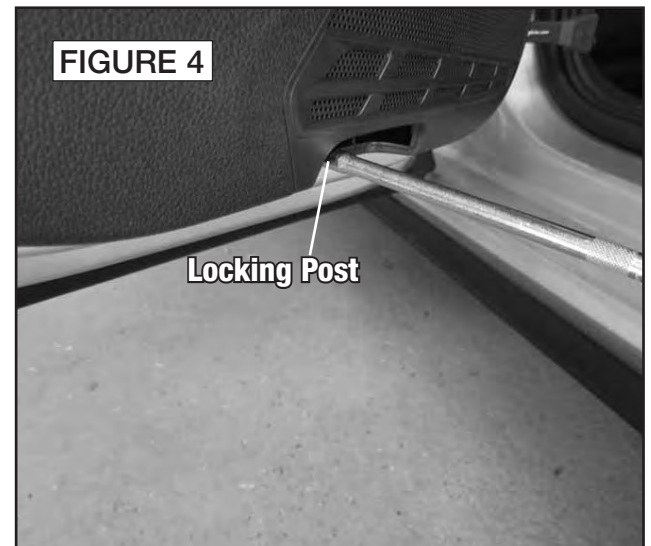


FIGURE 4



Rear Door Speakers (continued)

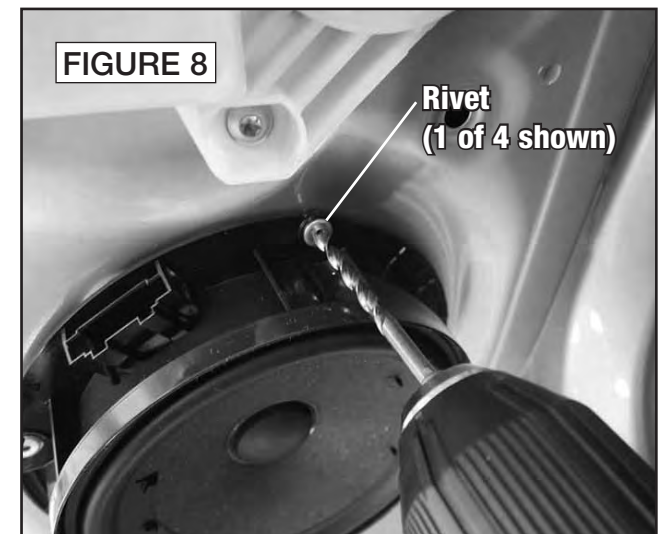
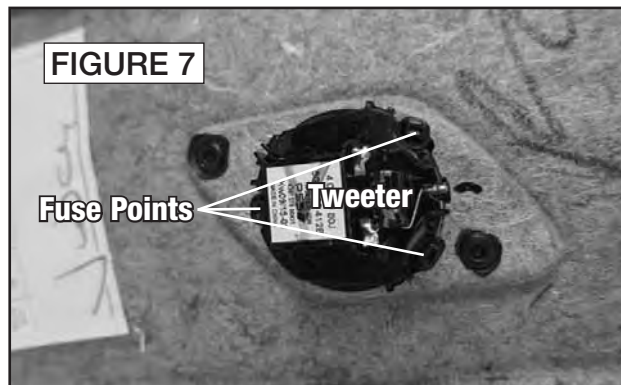
4. Pry out sides and bottom of door panel to release six (6) clips. Disconnect door release cable and wiring harnesses. Remove door panel (Figures 5 & 6).

5a. Tweeter Removal & Installation:

- Pry tweeter from door panel.
CAUTION: Tweeter is heat fused to door panel. Using a hack saw, cut at the fuse points, then carefully pry out tweeter to avoid damage (Figure 7).
- Fabricate a speaker mounting bracket and secure speaker to bracket.
- Make wiring connections following instructions on page 11. Return to this page to complete installation.
- Secure speaker/bracket assembly to location.

5b. Woofer Removal & Installation:

- Drill out four (4) rivets securing speaker with a 3/16" bit. Pull out speaker, disconnect and remove (Figure 8).
 - Secure speaker adapter bracket to door.
 - Make wiring connections following instructions on page 11. Return to this page to complete installation.
 - Secure speaker to adapter bracket.
6. Test speaker operation and reassemble door panel by reversing disassembly steps.



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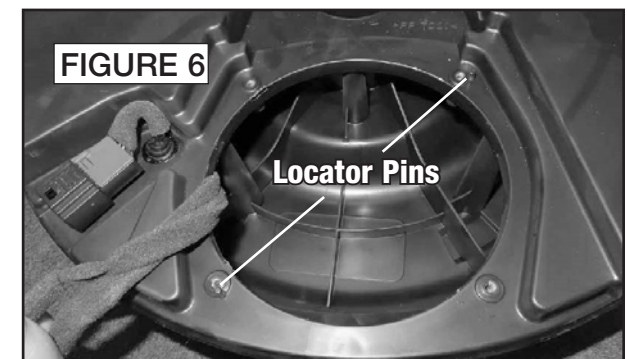
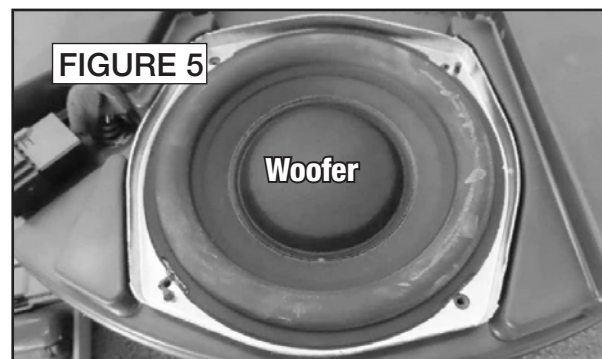
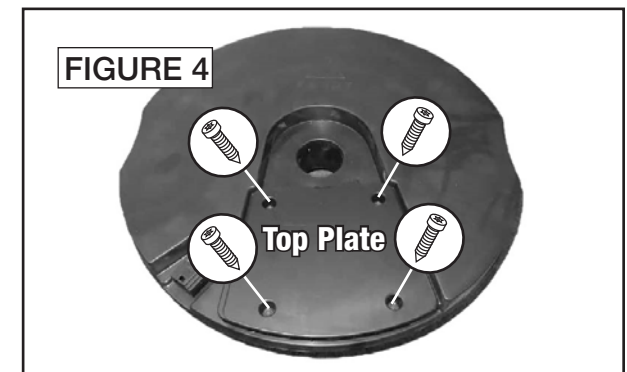
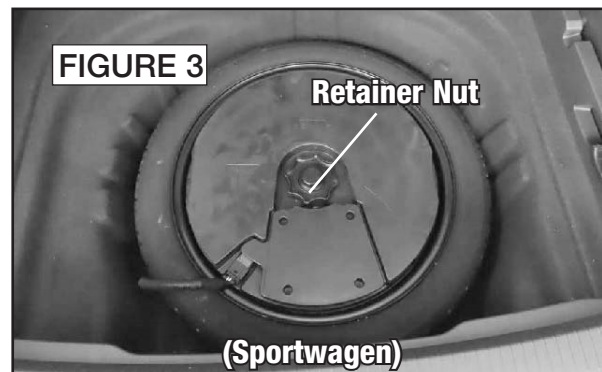
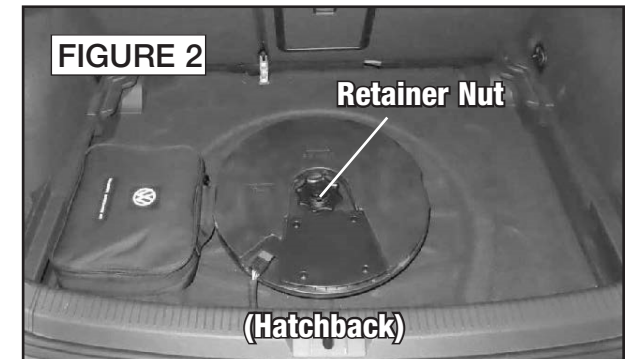
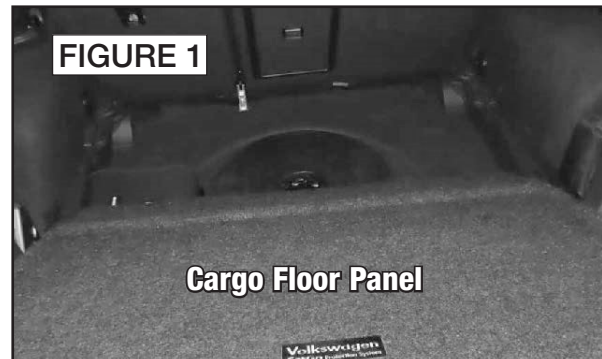
Cargo Floor Subwoofer

NOTES:

Please read first

- Instructions show factory size speakers or speakers with adapter brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.

1. Lift up cargo floor panel and remove (Figure 1).
2. Unscrew retainer nut securing subwoofer enclosure. Disconnect harness and remove enclosure (Figures 2-4).
3. Remove four (4) Torx T15 or Torx T20 screws securing enclosure top plate, then remove plate (Figure 4).
4. Pry up woofer, disconnect and remove (Figure 5).
5. Break off two (2) locator pins on factory enclosure to allow new speaker to fit flush (Figure 6).
6. Connect speaker wires to new speaker and secure speaker and top plate to enclosure.
7. Connect enclosure harness, then test speaker operation.
8. Reassembly cargo area by reversing disassembly steps.



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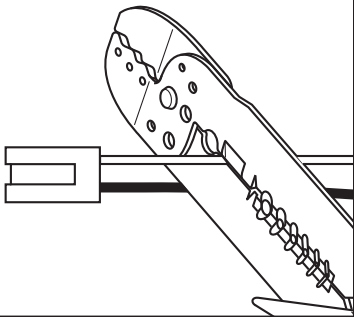
Wire Splicing Guide

These methods can be used to make wiring connections if no receiver or speaker wiring adapter is available. Wire color information (if available) can be found on the next page.

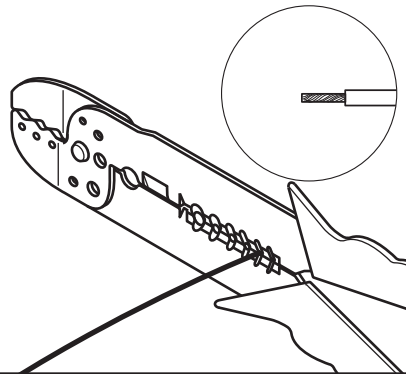
CRIMP METHOD

Factory harness is removed. Save harness if it is to be reconnected in the future by this method.

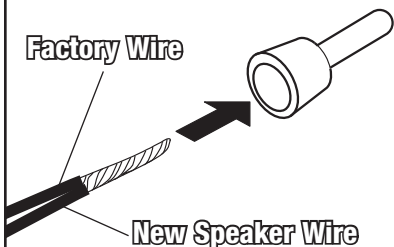
1. Cut factory wires behind factory speaker harness.



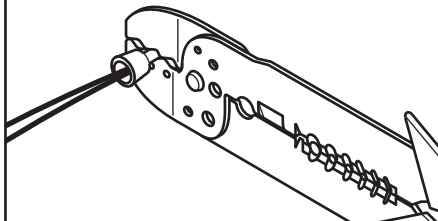
2. Strip end of each wire back 1/2".



3. Twist each positive pair of wires together and insert in crimp cap. Repeat step for negative wires.



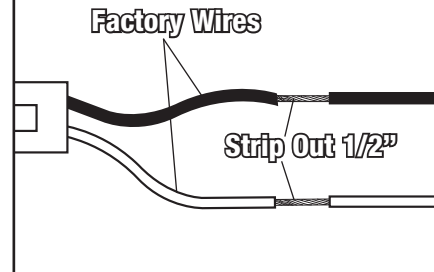
4. Squeeze middle of cap for tight connection.
5. Connect new wires to speaker with spade connectors.



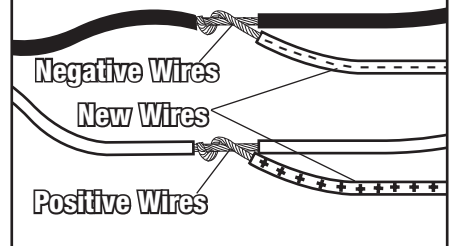
SOLDER METHOD

New speaker wires are spliced into factory wires behind harness.

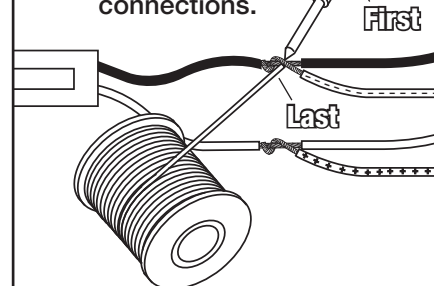
1. Carefully strip out a 1/2" section on each factory speaker wire behind the factory speaker harness.



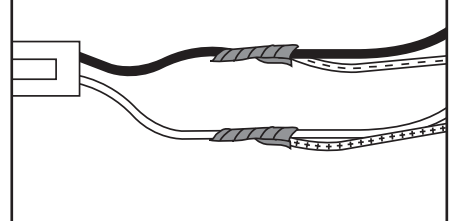
2. Twist wires from new speaker to stripped sections of factory wires as shown making sure polarity is correct.



3. Heat wires first with soldering iron, then touch solder to wires for solid connections.



4. Wrap wiring connections with electrical tape.
5. Connect new wires to speaker with spade connectors.



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Wire Splicing Guide (continued)

NOTE: In most cases a speaker wiring adapter is available from Crutchfield and splicing will not be necessary. If no adapter is available, use this chart as a guide to match and splice wires.

Wire Location	Wire Color
Left front door woofer/pillar tweeter	positive (+): red/yellow, negative (-): brown/yellow
Left front pillar tweeter (amplified)	positive (+): red/yellow, negative (-): brown/yellow
Left front door woofers (amplified)	positive (+): red/black or red/gray, negative (-): brown/black or brown/green
Right front door woofer/pillar tweeter	positive (+): red/green, negative (-): brown/green
Right front pillar tweeter (amplified)	positive (+): green/white, negative (-): brown/red
Right front door woofers (amplified)	positive (+): red/violet or red/green, negative (-): brown/violet or brown/green
Left rear door woofer/tweeter	positive (+): blue/black, negative (-): white/black
Left rear door tweeter (amplified)	positive (+): green/yellow, negative (-): brown/blue
Left rear door woofer (amplified)	positive (+): red/white, negative (-): brown/white
Right rear door woofer/tweeter	positive (+): blue/white, negative (-): black/white
Right rear door tweeter (amplified)	positive (+): blue/black, negative (-): brown/black
Right rear door woofer (amplified)	positive (+): blue/yellow, negative (-): brown/green
Subwoofer	positive (+): white and white/yellow, negative (-): brown and brown/yellow
Vehicle speed sense ²	Must use speed pulse generator
Reverse (+) ²	VESCM ¹ , white 73-pin plug, pin 11 - white
Parking brake ²	Parking brake switch, black 2-pin plug, pin 1 - brown/yellow
Foot brake ²	VESCM ¹ , white 73-pin plug, pin 58 - black/red

NOTES:

- If equipped with a factory amplifier, the amplifier will be located under the driver's seat.
- ¹VESCM (Vehicle Electronic System Control Module) is located above the driver's kick panel.
- ²The vehicle integration adapter may also provide these signals.

