

# MasterSheet

028 0100  
Revision 07/31/18



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**.

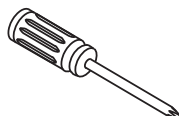
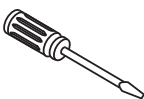

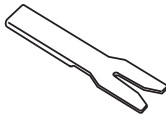

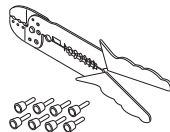

## Inside...

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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10-12	Rear Side Subwoofer	✓		✓	✓	✓				✓
13	Wire Splicing Guide								✓	
		Phillips Screwdriver	Small Flat Blade Screwdriver	10mm	14mm	Panel Tool	1/8"	5/32"	Wire Stripper & Crimp Caps	Saber Saw
				Socket, Ratchet & Extension			Drill & Bit			
										

## Tools Required ►

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**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.

2010-'13  
Kia Soul



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# Factory Radio Removal

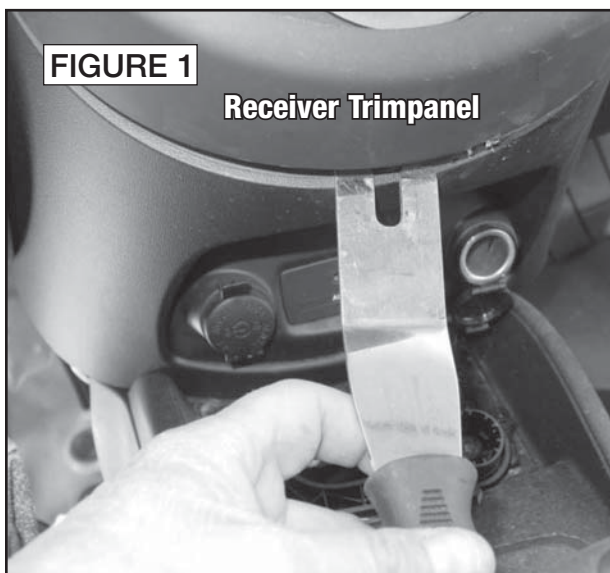


## CAUTION:

*The clips securing the receiver trimpanel are extremely tight and may require a considerable amount of force to release. Care should be taken to avoid cosmetic damage.*

1. Before proceeding, eject disc(s) from factory unit if present.
2. Disconnect negative battery cable to prevent any electrical short.
3. Starting at the bottom edge, carefully pry out receiver trimpanel to release ten (10) clips, disconnect wiring harness and remove trimpanel (Figures 1 & 2).
4. Remove four (4) phillips screws securing climate control panel to dash, then allow panel to hang by harness (Figure 3).  
**Note: DO NOT DISCONNECT WIRING HARNESS.**
5. Remove four (4) phillips screws securing factory radio. Pull out radio, disconnect and remove (Figures 3 & 4).

FIGURE 1



Receiver Trimpanel

FIGURE 2

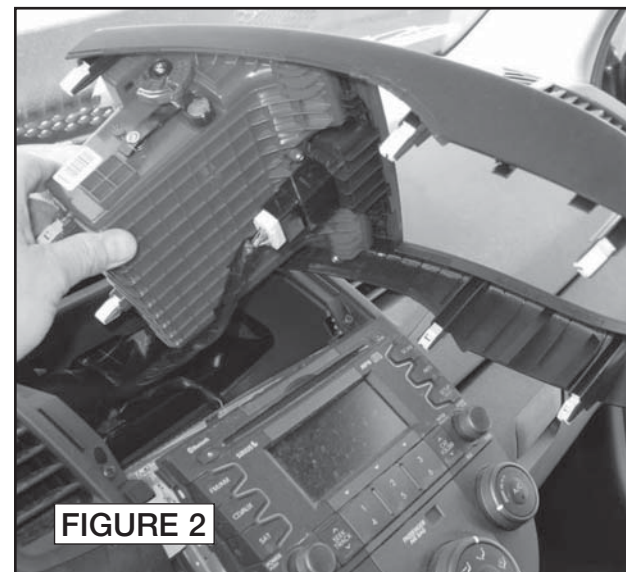
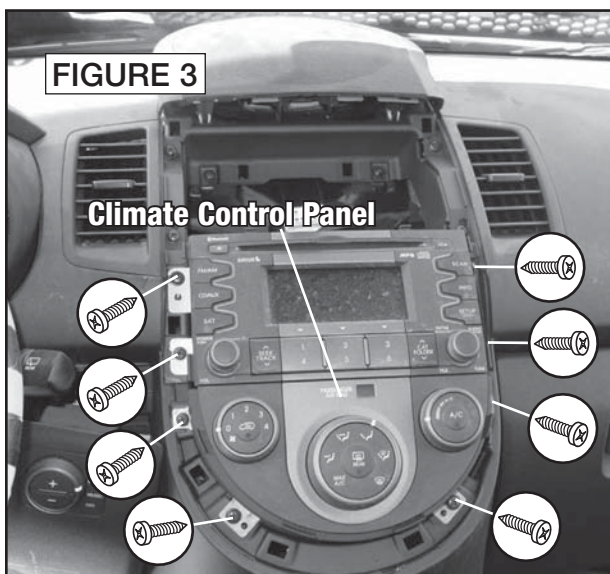


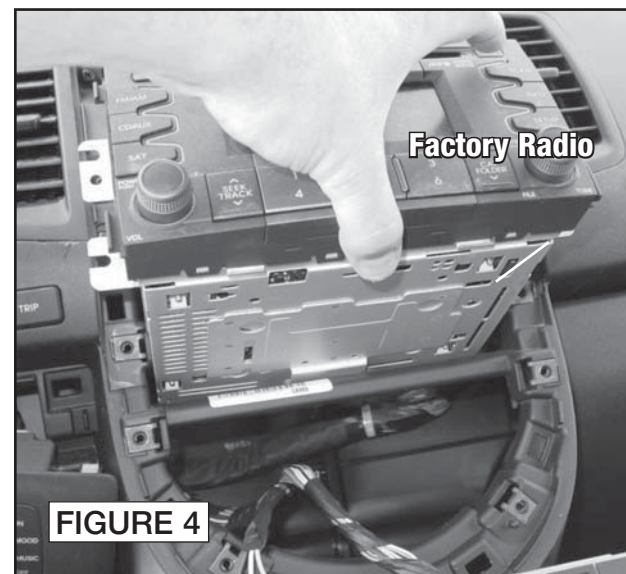
FIGURE 3



Climate Control Panel

Factory Radio

FIGURE 4



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# Receiver Installation

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

*No wiring adaptor is available for 2012-'13 models with factory subwoofer. The receiver must be hardwired.*

1. Secure receiver to mounting bracket following instructions supplied with the dash kit.
2. Make wiring connections following instructions supplied with the receiver wiring adaptor received from Crutchfield.
3. Hold receiver assembly near dash. Connect receiver wiring adaptor to vehicle harness and plug antenna lead into rear of receiver. **Note:** Use the antenna adaptor to connect the antenna for 2010-'11 models. Plug in any other accessories to be used with the new receiver.
4. Slide assembly into dash and secure with screws previously removed.
5. Reconnect all wiring harnesses including airbag. Test operation and reassemble dash by reversing removal steps.

## NOTES:

### *Please read first*

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



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# Center Dash Speaker



## IMPORTANT

No speaker wiring adaptor 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.

The clips securing the receiver trimpanel are extremely tight and may require a considerable amount of force to release. Care should be taken to avoid cosmetic damage.

1. Starting at the bottom edge, carefully pry out receiver trimpanel to release ten (10) clips. Disconnect wiring harness and remove receiver trimpanel (Figures 1 & 2).
2. Carefully pry up center dash speaker grille to release six (6) clips and remove grille (Figure 3).
3. Remove four (4) phillips screws securing speaker. Pull out speaker, disconnect and remove (Figure 4).
4. Make wiring connections following instructions on page 13. Return to this page to complete installation.
5. Secure speaker to location with screws previously removed.
6. Test speaker operation and reassemble dash by reversing disassembly steps.

FIGURE 1

Receiver Trimpanel



FIGURE 2

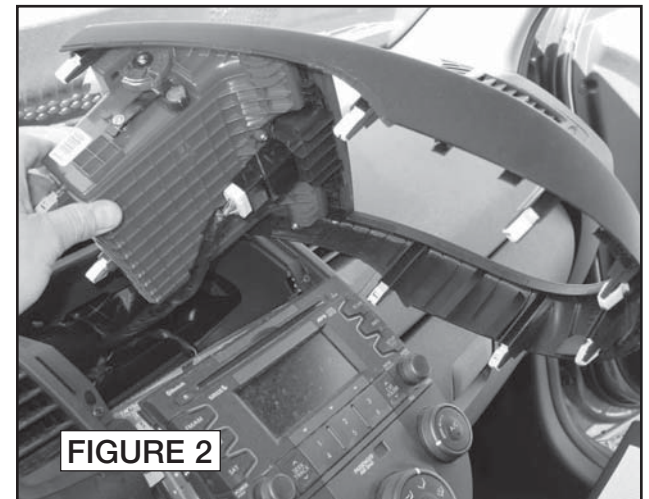


FIGURE 3

Center Dash Speaker Grille

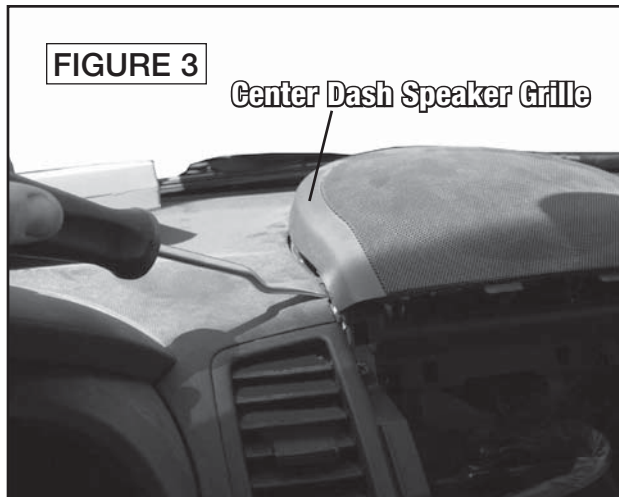
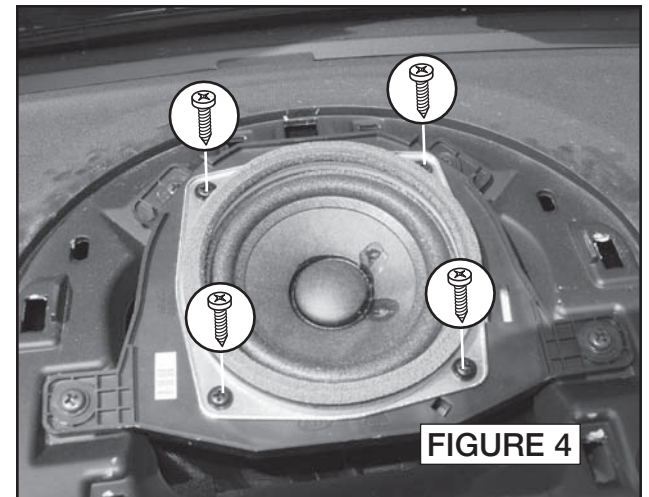


FIGURE 4



## NOTES:

### Please read first

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



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# Corner Dash Tweeters



## IMPORTANT

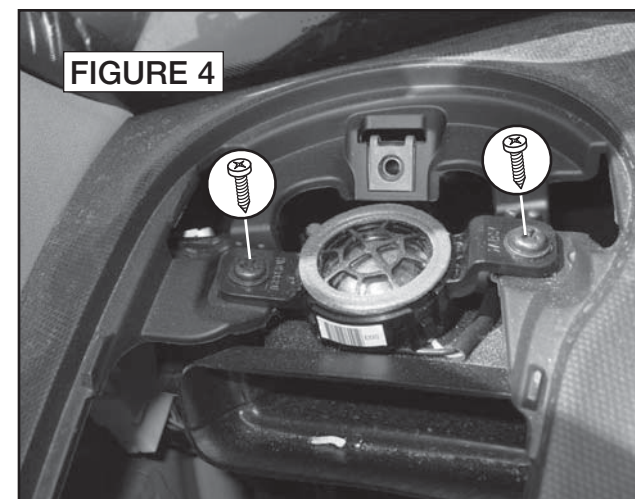
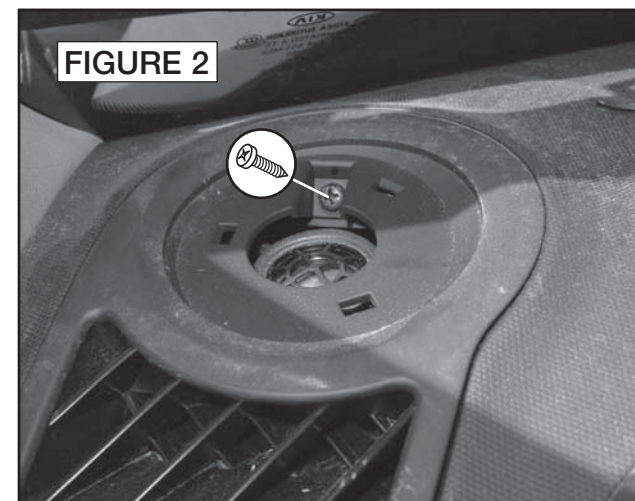
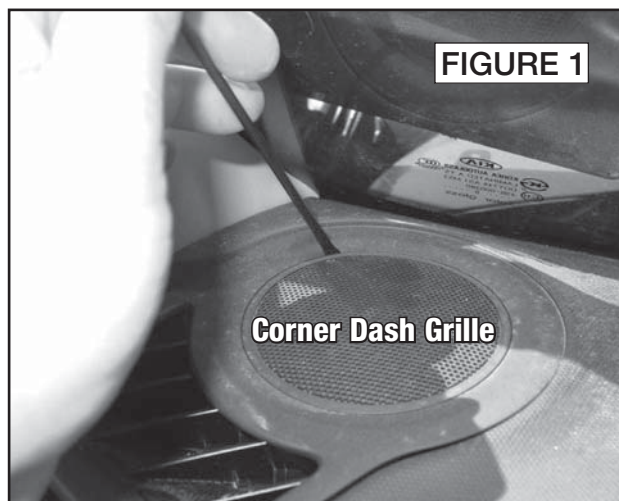
No speaker wiring adaptor is available at this time from Crutchfield for this speaker location. It will be necessary to splice wires in order to install an aftermarket speaker.

1. Carefully pry off corner dash grille to release clips and remove (Figure 1).
2. Remove one (1) exposed phillips screw (Figure 2).
3. Carefully pry out vent assembly to release clips. Pull assembly straight back to remove (Figure 3).
4. Remove two (2) phillips screws securing tweeter. Disconnect speaker wiring harness and remove tweeter (Figure 4).
5. Fabricate a speaker mounting bracket and secure speaker to bracket.
6. Make wiring connections following instructions on page 13. Return to this page to complete installation.
7. Secure speaker/bracket assembly to location.
8. Test speaker operation and reassemble by reversing disassembly steps.

## NOTES:

### Please read first

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



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# Front Door Speakers

## NOTES:

### Please read first

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



### IMPORTANT

No speaker wiring adaptor 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 "sail" panel to release clips and remove panel (Figure 1).
2. Pry open screw cover in door release trim and remove one (1) exposed phillips screw. Remove door release trim (Figures 2 & 3).
3. Pry open screw cover behind door pull and remove one (1) exposed phillips screw (Figure 4).
4. Pry off two (2) screw covers along front edge of door panel and remove one (1) exposed phillips screw at each location (Figure 5).

Continued on the next page.



FIGURE 1



FIGURE 2

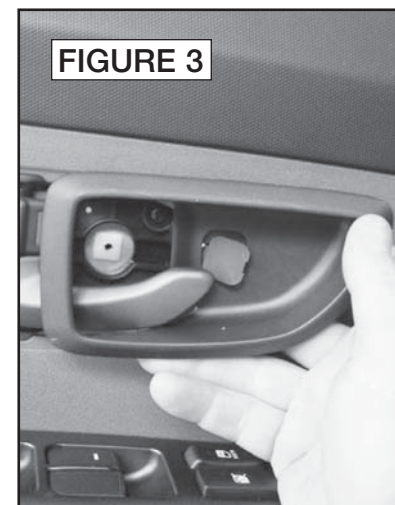


FIGURE 3

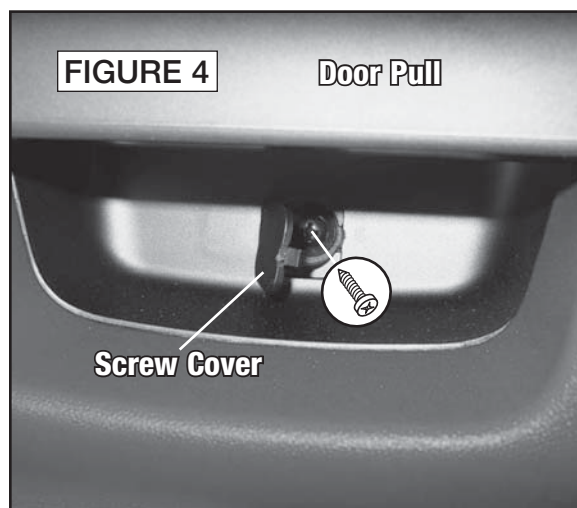


FIGURE 4

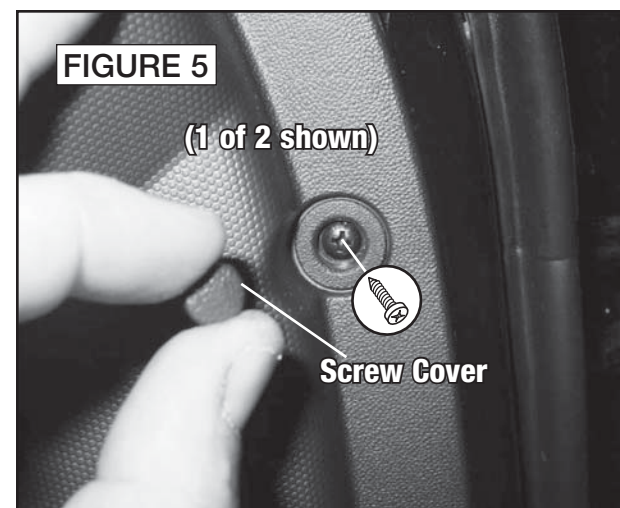


FIGURE 5



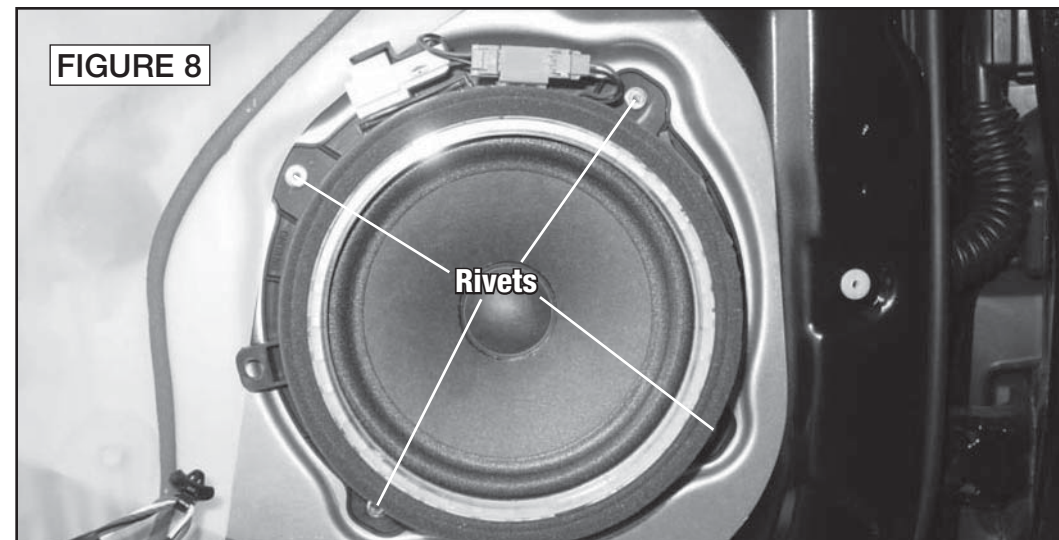
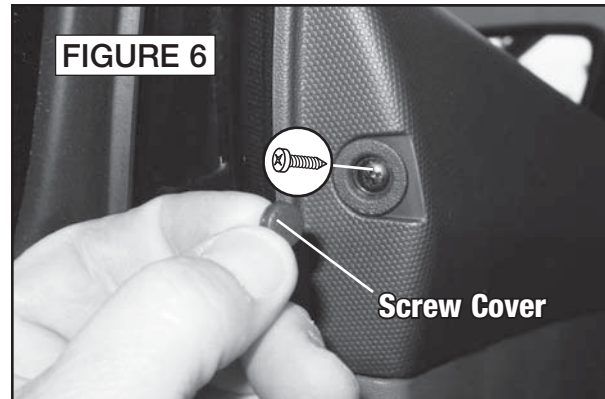
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# Front Door Speakers (continued)

5. Pry off one (1) screw cover along rear edge of door panel and remove one (1) exposed phillips screw (Figure 6).
6. Pry out sides and bottom of door panel to release clips. Pull out panel, disconnect wiring harnesses and remove (Figure 7).
7. Using a drill and 5/32" bit, drill out four (4) rivets securing speaker. Pull out speaker, disconnect and remove (Figure 8).
8. Secure new speaker to adaptor bracket.
9. Place speaker/bracket assembly in location and mark new mounting holes. Remove assembly and drill new holes with a 1/8" bit.
10. Make wiring connections following instructions on page 13. Return to this page to complete installation.
11. Secure speaker/bracket assembly to location and test operation.
12. Reinstall door panel by reversing removal steps.



## CAUTION:

Always be careful when drilling in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check drilling 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

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

1. Pry open screw cover in door release trim and remove one (1) exposed phillips screw. Remove door release trim (Figures 1 & 2).
2. Pry open screw cover behind door pull and remove one (1) exposed phillips screw (Figure 3).
3. Pry off one (1) screw cover along front edge of door panel and remove one (1) exposed phillips screw (Figure 4).

*Continued on the next page.*

## NOTES:

### *Please read first*

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

FIGURE 1

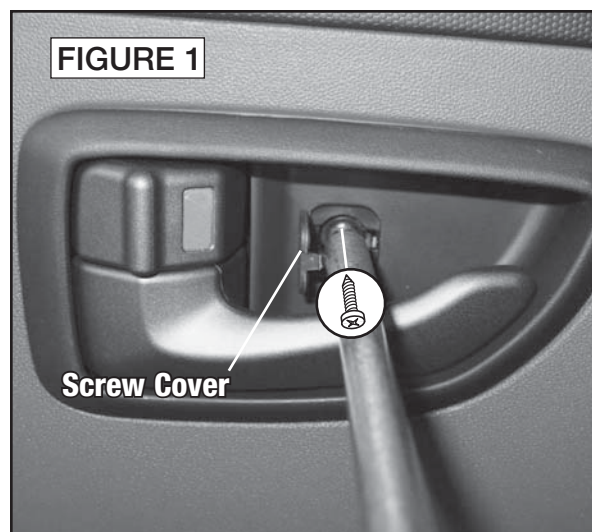


FIGURE 2



FIGURE 3

Door Pull

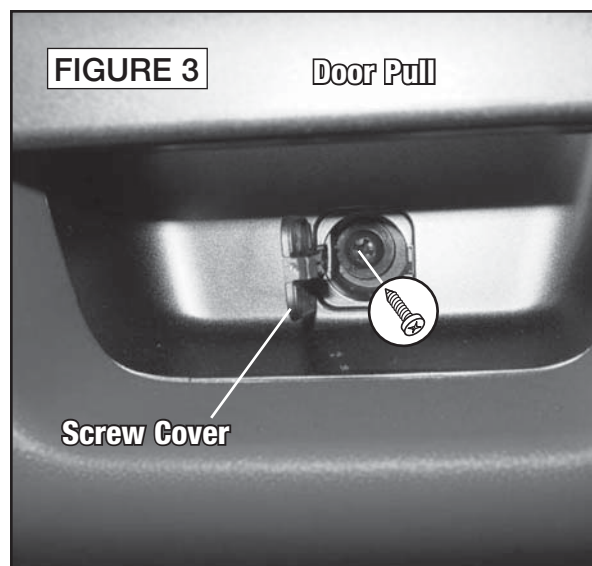
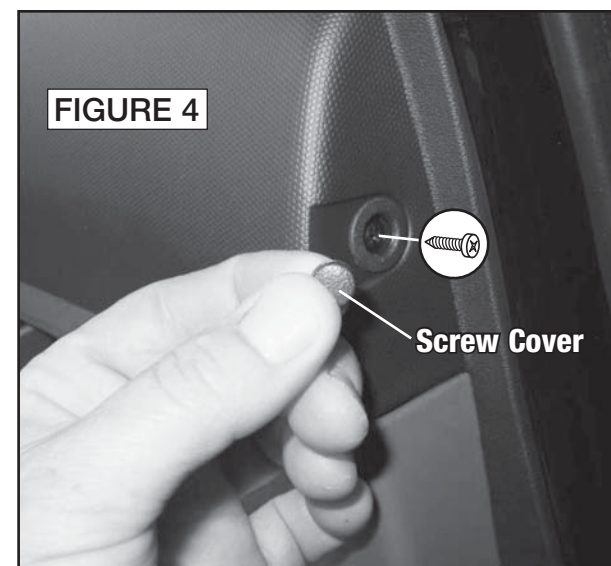


FIGURE 4



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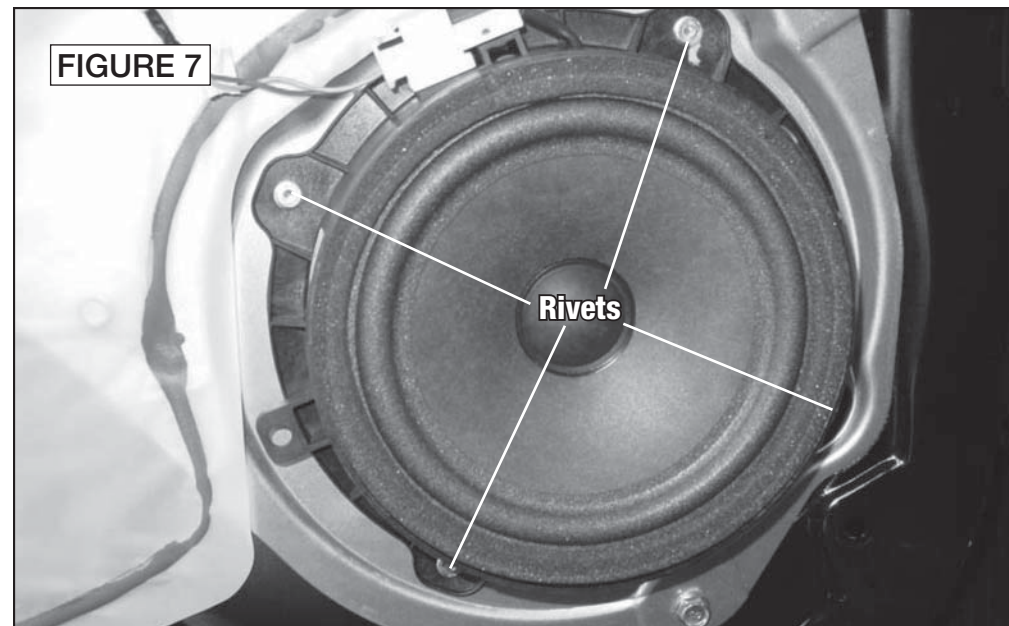
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# Rear Door Speakers (continued)

4. Pry off one (1) **screw cover** along rear edge of door panel and remove one (1) exposed phillips screw (Figure 5).
5. Pry out sides and bottom of door panel to release eight (8) clips. Pull out panel, disconnect wiring harnesses and remove (Figure 6).
6. Using a drill and 5/32" bit, drill out four (4) **rivets** securing speaker. Pull out speaker, disconnect and remove (Figure 7).
7. Secure new speaker to adaptor bracket.
8. Place speaker/bracket assembly in location and mark new mounting holes. Remove assembly and drill new holes with a 1/8" bit.
9. Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness.
10. Secure speaker/bracket assembly to location and test operation.
11. Reinstall door panel by reversing removal steps.



## CAUTION:

Always be careful when drilling in a vehicle. **WEAR EYE PROTECTION.** Be aware of things such as wiring, windows, fuel lines and safety devices. Check drilling 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 Side Subwoofer



## IMPORTANT

No speaker wiring adaptor 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.

The factory speaker receives only bass frequencies. If replaced by an aftermarket speaker, the new speaker will produce only bass.

1. Press in two (2) tabs along front edge of seat to release (Figure 1).
2. Remove one (1) 14mm bolt between seat bottom and seat back. Lift seat bottom and remove (Figures 2 & 3).
3. Fold down both rear seat backs.
4. Lift cargo floor and remove foam storage tray (Figure 4).
5. Pull up cargo floor panel to release at pivot point. Remove cargo floor panel.
6. Remove two (2) phillips screws exposed by removal of foam storage tray (Figure 5).

*Continued on the next page.*

## NOTES:

### Please read first

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

FIGURE 1

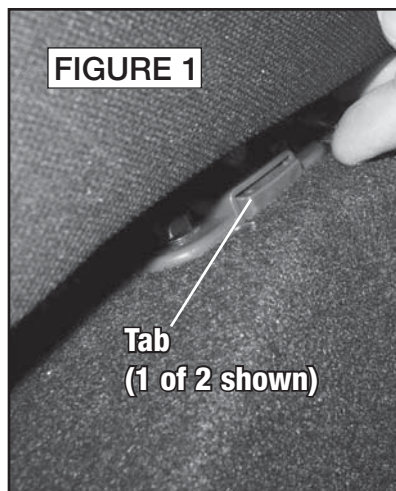


FIGURE 2

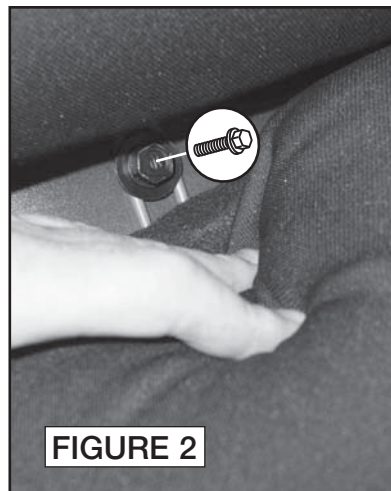


FIGURE 3

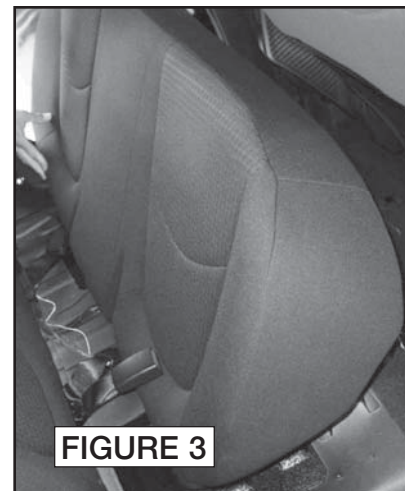


FIGURE 4

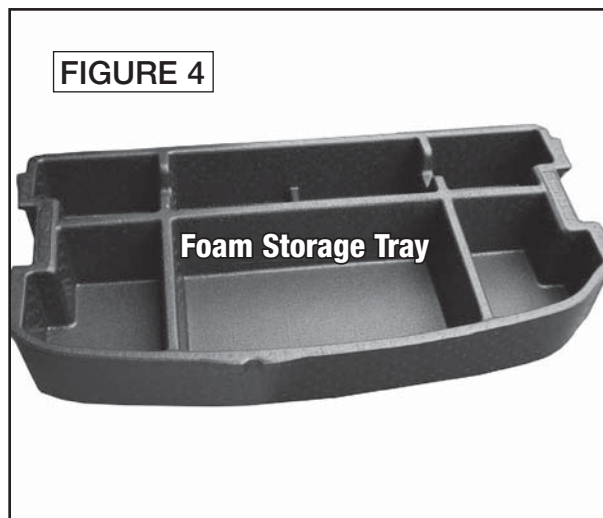
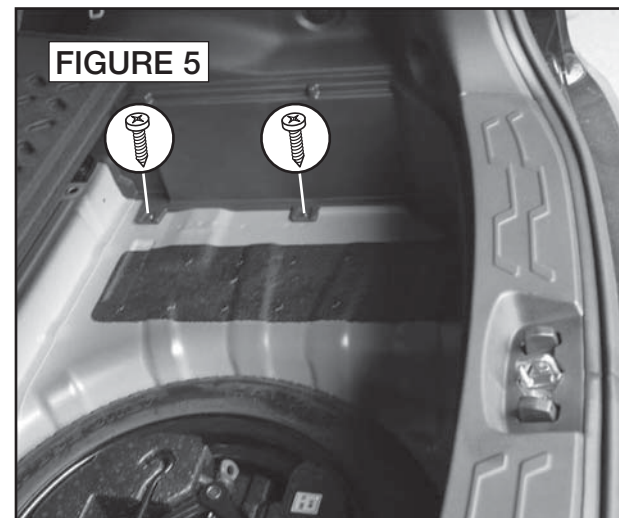


FIGURE 5



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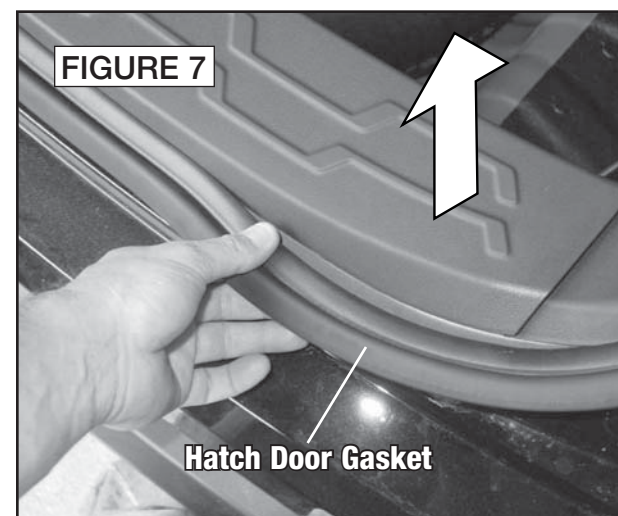
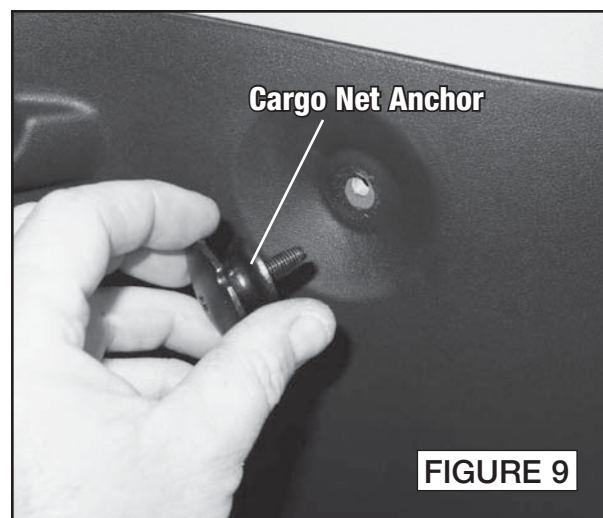
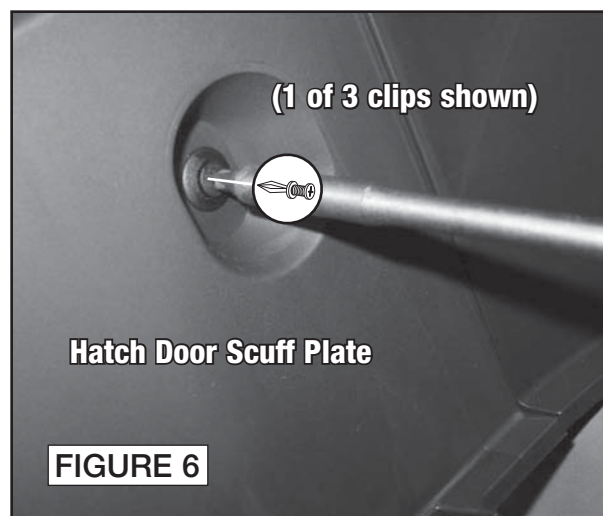
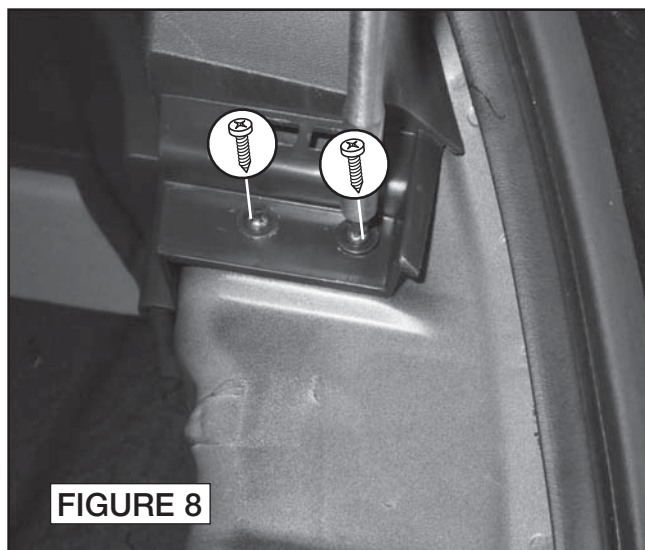
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## Rear Side Subwoofer (continued)

7. Remove three (3) phillips clips on hatch door scuff plate by unscrewing center pin, then prying out clip (Figure 6).
8. Pull out hatch door gasket just enough to clear scuff plate. Pry up scuff plate to release four (4) clips and remove (Figure 7).
9. Remove two (2) phillips screws exposed by removal of hatch door scuff plate (Figure 8).
10. Unscrew cargo net anchor to remove (Figure 9).
11. Pry up passenger rear door scuff plate to release clips and remove one (1) exposed phillips screw (Figure 10).

*Continued on the next page.*



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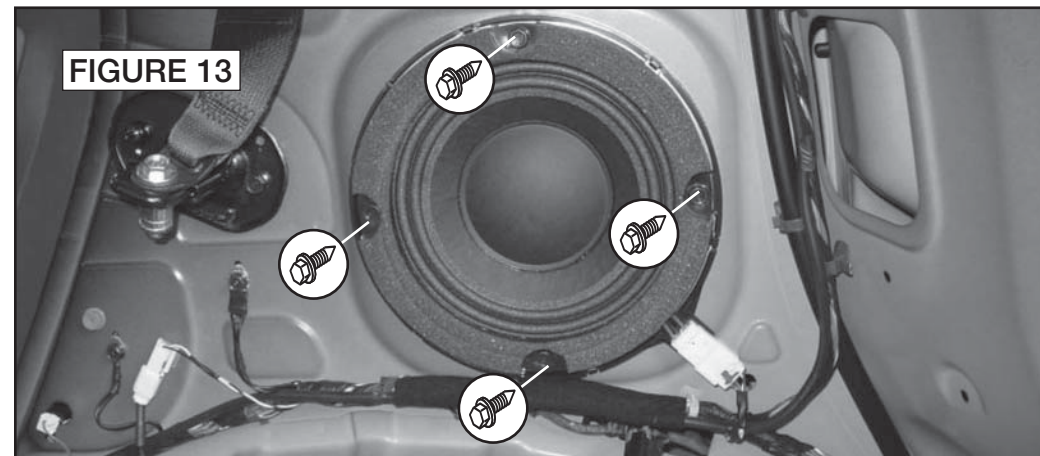
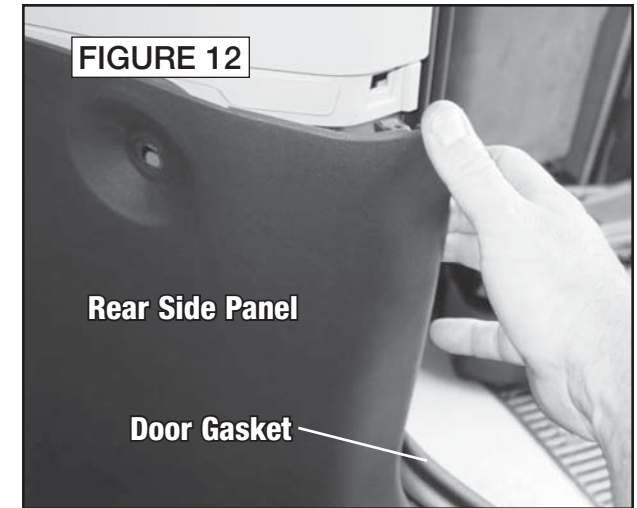
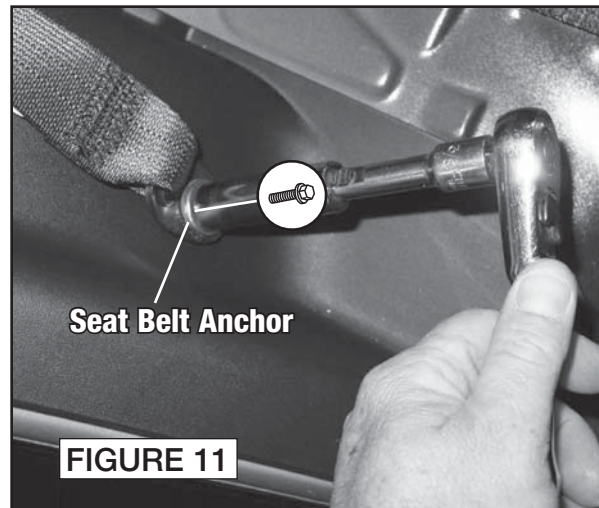
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# Rear Side Subwoofer (continued)

12. Remove one (1) 14mm bolt securing lower seat belt anchor (Figure 11).
13. Pull door gasket away along rear side panel (Figure 12).
14. Pry out rear side panel to release clips, disconnect power outlet harness and remove side panel (Figure 12).
15. Remove four (4) 10mm screws securing subwoofer to side wall. Disconnect wiring harness and lift subwoofer to remove (Figure 13).
16. Test fit new subwoofer and cut to enlarge opening if necessary using a saber saw.
17. Make wiring connections following instructions on page 13. Return to this page to complete installation.
18. Secure new speaker with screws previously removed.
19. Test speaker operation and reinstall rear of vehicle by reversing removal steps.



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## SAFETY CHECK

- Make sure seats and seat belts are secured to manufacturer's specifications.



## CAUTION:

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

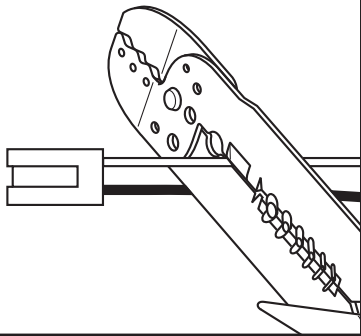
# Wire Splicing Guide

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

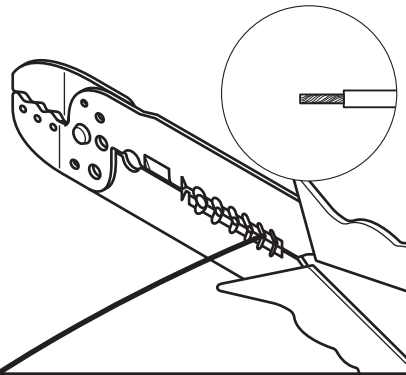
## CRIMP METHOD

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

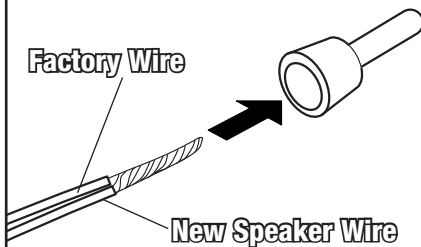
1. Cut factory wires behind factory speaker harness.



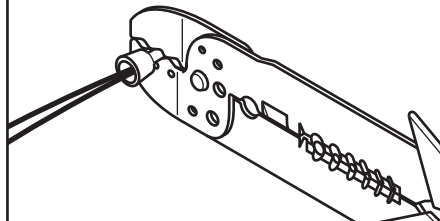
2. Strip end of each wire back 1/2".



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



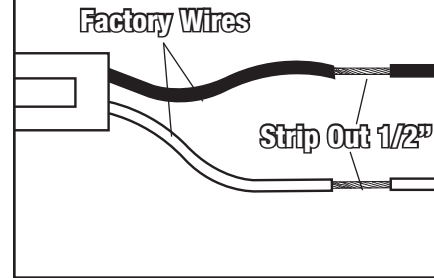
4. Squeeze middle of cap for tight connection.
5. Connect new wires to speaker with spade connectors.



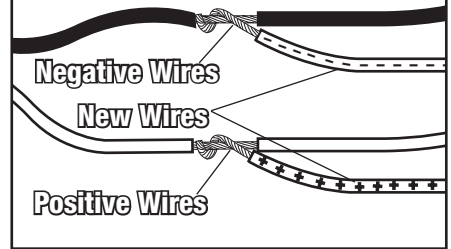
## SOLDER METHOD

*New speaker wires are spliced into factory wires behind harness.*

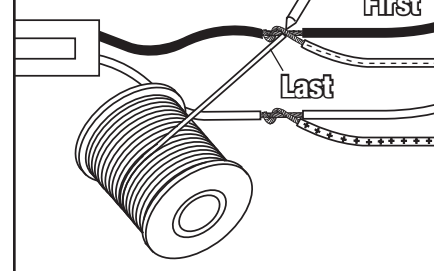
1. Carefully strip out a 1/2" section on each factory speaker wire behind the factory speaker harness.



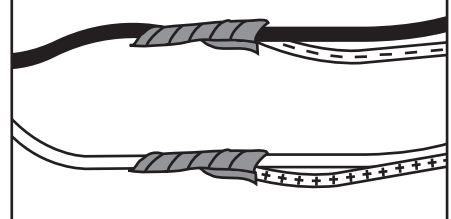
2. Twist wires from new speaker to stripped sections of factory wires as shown making sure polarity is correct.



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.



# Wire Splicing Guide (continued)

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

Wire Location	Wire Color
Left front door/corner dash speakers	positive (+): red or white, negative (-): blue or brown
Right front door/corner dash speakers	positive (+): white or black, negative (-): brown or yellow
Center dash speaker	positive (+): brown, negative (-): white
Left rear speaker	positive (+): red, negative (-): blue
Right rear speaker	positive (+): red/orange, negative (-): blue/orange
Subwoofer voice coil #1	positive (+): brown, negative (-): white
Subwoofer voice coil #2	positive (+): green, negative (-): orange
Vehicle speed sense <sup>1</sup> (2010-2011)	data link connector, black 16-pin plg, pin 3 or radio, gray 8-pin plug, pin 1 - red
Vehicle speed sense <sup>1</sup> (2012-2013)	data link connector, black 16-pin plg, pin 3 or radio, white 24-pin plug, pin 16 - red
Reverse (+) <sup>1</sup> (2010-2011)	above driver's kick panel, white 14-pin plug, pin 5 - green
Reverse (+) <sup>1</sup> (2012-2013)	above driver's kick panel, white 23-pin plug, pin 3 - green/orange
Parking brake <sup>1</sup>	rear of the dash fuse box, blue 22-pin plug (FI), pin 12 - green/orange
Foot brake <sup>1</sup> (2010-2011)	above driver's kick panel, white 14-pin plug, pin 7 - red/orange
Foot brake <sup>1</sup> (2012-2013)	above driver's kick panel, white 23-pin plug, pin 20 - pink
<b>NOTES:</b> <ul style="list-style-type: none"> <li>If equipped with a factory amplifier, the amplifier will be located in the right rear quarter trim panel.</li> <li><sup>1</sup>These wires and functions may also be generated by the OEM integration interface that is used when replacing the radio.</li> </ul>	

