

MasterSheet

053 0082
Revision 03/13/23



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**.

2010-
Toyota
4Runner

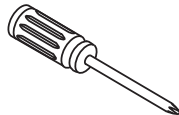
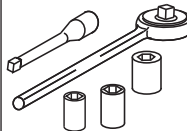
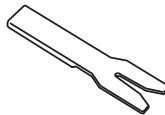
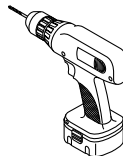
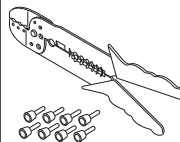


Inside...

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 their 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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15	Wire Splicing Guide									✓
		Phillips Screwdriver	Small Flat Blade Screwdriver	10mm	12mm	14mm	Panel Tool	Drill & 1/8" Bit	T20 Torx Driver	Wire Stripper & Crimp Caps
										

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. Refer to the vehicle's owner's manual for information on disconnecting the battery.

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Radio Removal (without navigation)

1. Before proceeding, remove media from factory unit if present.
2. Disconnect negative battery cable to prevent any electrical short.
3. Pry out climate control panel to release eight (8) clips. Disconnect wiring harnesses and remove (Figures 1, 2 & 3).
4. Remove four (4) 10mm screws exposed by removal of climate control panel (Figure 4).
5. Pull out factory radio/vent assembly to release six (6) clips, disconnect and remove radio.



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Radio Removal (with navigation)

1. Before proceeding, remove media from factory unit if present.
2. Disconnect negative battery cable to prevent any electrical short.
3. Pry off lower dash side trim panels to release five (5) clips on each panel. Remove both panels (Figures 1 & 2).
4. Pry out climate control panel to release four (4) clips. Disconnect wiring harness and remove control panel (Figure 3).
5. Remove four (4) 10mm bolts exposed by removal of climate control panel (Figure 4).
6. Pry out factory radio/vent assembly to release six (6) clips and remove assembly (Figure 4).



Lower Dash Side Trim Panels



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Receiver Installation

A standard DIN unit is shown. A double-DIN receiver can also be installed following these same steps.

1. Secure receiver to mounting bracket following instructions supplied with the dash kit.
2. Make wiring connections following instructions supplied with the receiver wiring adapter.
3. Hold **receiver assembly** near dash. Make the following connections (if applicable) and check that they are secure:
 - receiver wiring adapter or interface
 - antenna lead (using adapter if necessary)
 - Bluetooth® microphone
 - RCA cables
 - climate control harnesses
 - airbag harnesses
 - power outlet harnesses
 - other accessory devices
4. Secure assembly to dash, then reconnect battery and test operation of all the following functions (if applicable):
 - receiver power
 - AM/FM reception
 - sound from all speakers and sources
 - Bluetooth® operations
 - other accessory devices
5. Reassemble dash by reversing disassembly steps.

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.**



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Dash Speakers



IMPORTANT

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

1. Starting at the rear edge, pry up dash grille to release six (6) clips and remove grille (Figure 1).
2. Remove two (2) 10mm screws securing speaker. Pull out speaker, disconnect and remove (Figures 2 & 3).
3. Secure new speaker to speaker adapter bracket following instructions provided with bracket if required for your installation.
- 4a. **Vehicles with JBL system:** Make speaker wiring connections to new speaker following instructions on page 15. Return to this page to complete installation.
- 4b. **Vehicles without JBL system:** Connect speaker wiring adapter of replacement speaker to vehicle speaker harness.
5. Secure speaker or speaker/bracket assembly to location with screws previously removed.
6. Test speaker operation and reinstall speaker grille.

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

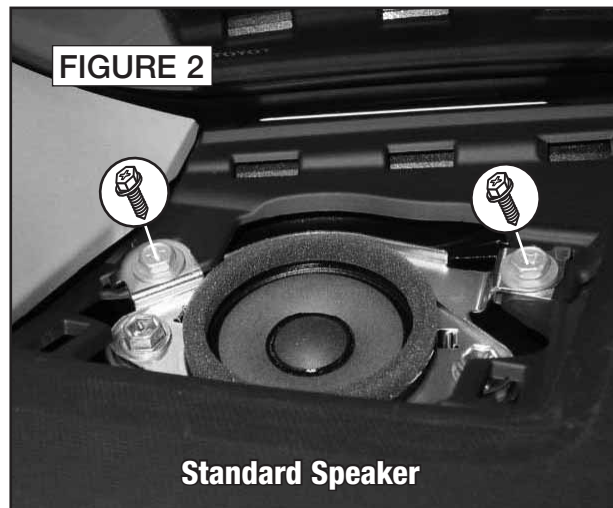
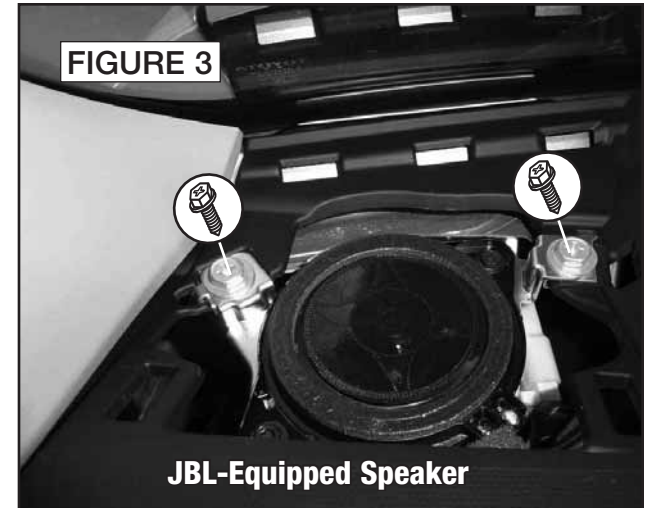


FIGURE 3



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Front Door Speakers



IMPORTANT

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 corner, pry off “sail” panel to release two (2) clips and remove (Figure 1).
2. Starting at the top, pry open screw cover behind door pull and remove one (1) Phillips screw (Figure 2).
3. Pry out screw cover behind door release and remove one (1) Phillips screw (Figure 3).
4. Pry open screw cover below door pull and remove one (1) exposed Phillips screw (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

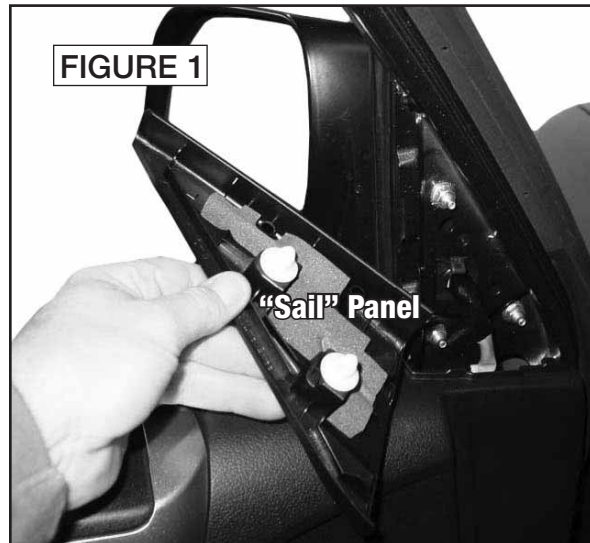


FIGURE 2

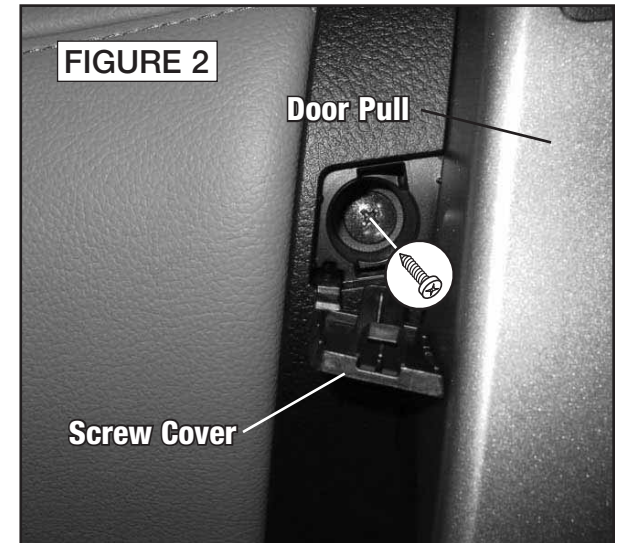


FIGURE 3

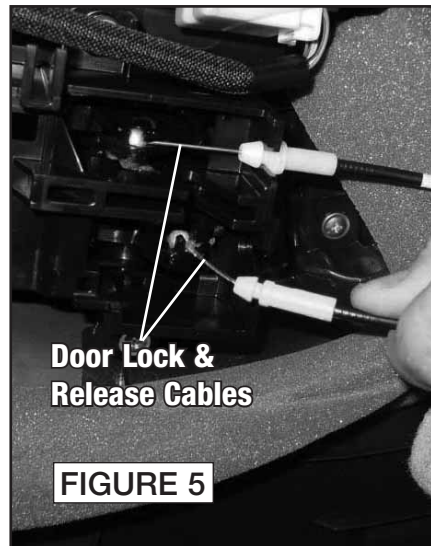


FIGURE 4



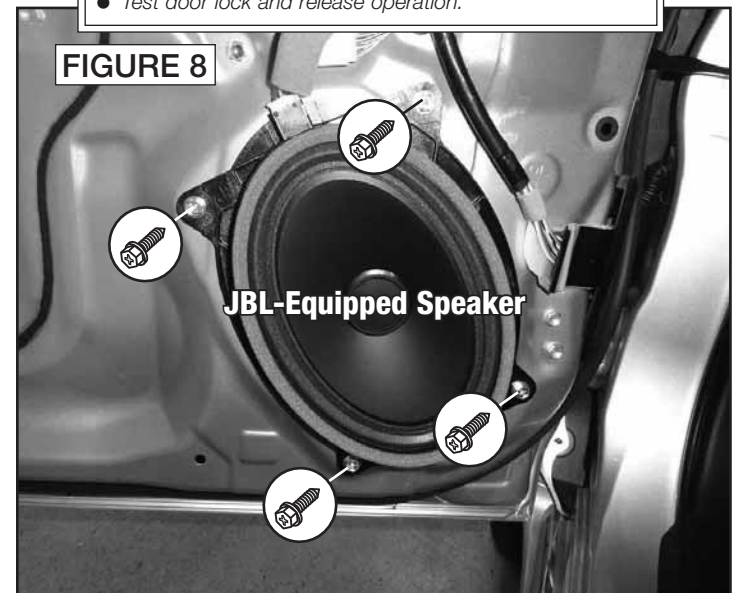
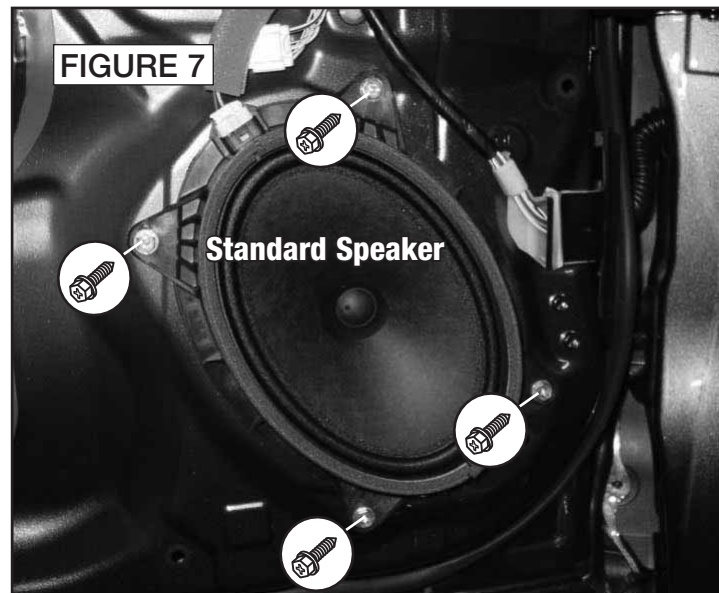
Front Door Speakers (continued)

5. Pry out sides and bottom of door panel to release eleven (11) clips. Disconnect wiring harness, door lock and release cables and remove door panel (Figures 5 & 6).
6. Remove four (4) 10mm screws securing speaker. Pull out speaker, disconnect and remove (Figures 7 & 8).
7. Secure new speaker to adapter bracket.
8. Connect speaker wiring adapter of replacement speaker to vehicle speaker harness. Secure speaker/bracket assembly to location with screws previously removed.
9. Test speaker operation and reassemble door panel by reversing disassembly steps.



SAFETY CHECK

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



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Rear Door Speakers

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.

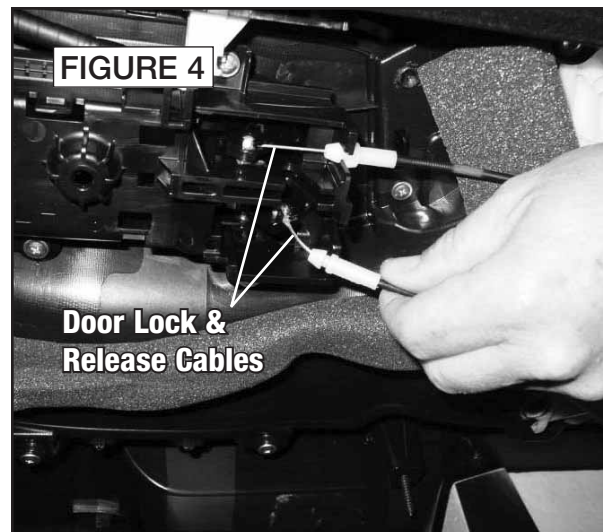


IMPORTANT

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, pry open screw cover behind door release and remove one (1) Phillips screw (Figure 1).
2. Pry out screw cover behind door pull handle and remove one (1) Phillips screw (Figure 2).
3. Pry open screw cover below door pull and remove one (1) Phillips screw (Figure 3).
4. Pry out sides and bottom of door panel to release nine (9) clips. Disconnect wiring harness, door lock and release cables and remove door panel (Figures 4 & 5).

Continued on the next page.



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Rear Door Speakers (continued)

5. Remove three (3) 10mm screws securing speaker. Pull out speaker, disconnect and remove (Figures 6 & 7).
6. Secure new speaker to adapter bracket.
7. Connect speaker wiring adapter of replacement speaker to vehicle speaker harness. Secure speaker/bracket assembly to location with screws previously removed.
8. Test speaker operation and reassemble door panel by reversing disassembly steps.



SAFETY CHECK

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



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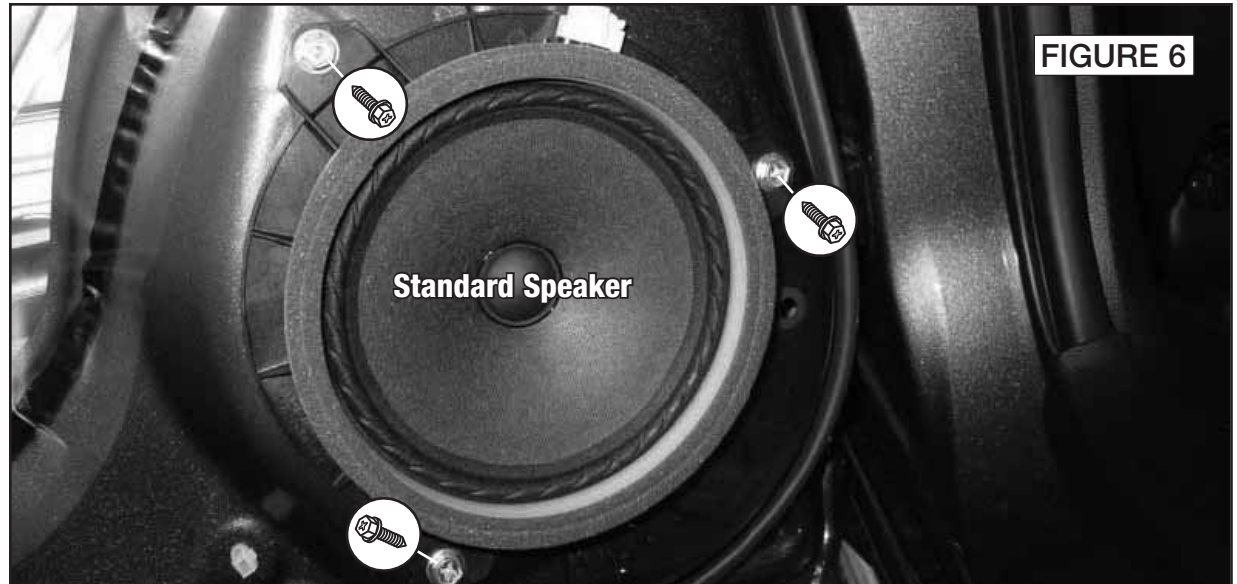


FIGURE 6



FIGURE 7

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Cargo Door Speakers

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.



IMPORTANT

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

1. Starting at the bottom, pry out sides and bottom of cargo door panel to release twelve (12) clips. Disconnect light harnesses and remove panel (Figure 1).
2. Remove three (3) 10mm screws securing speaker to cargo door. Disconnect wiring harness and remove speaker (Figures 2 & 3).
3. Secure new speaker to adapter bracket.
4. Connect speaker wiring adapter of replacement speaker to vehicle speaker harness. Secure speaker/bracket assembly to location with screws previously removed.
5. Test speaker operation and reassemble cargo door panel by reversing disassembly steps.



FIGURE 1

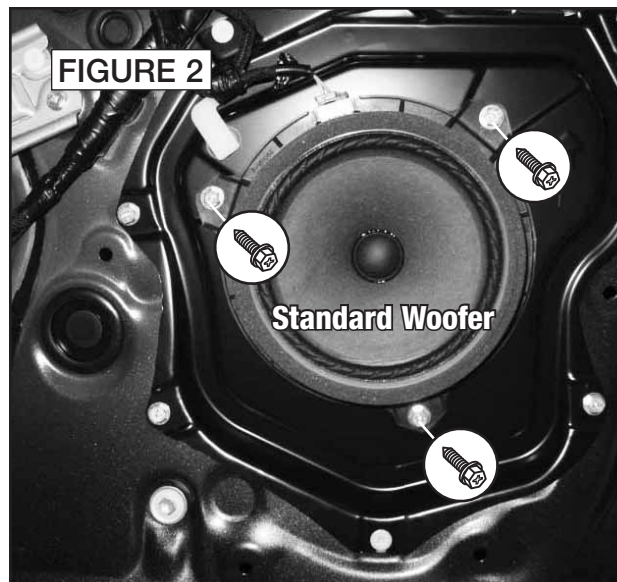


FIGURE 2



FIGURE 3



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Rear Side Subwoofer



IMPORTANT

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

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

The subwoofer is located on the passenger's side behind the rear side panel. All of the following steps pertain to that side of the vehicle.

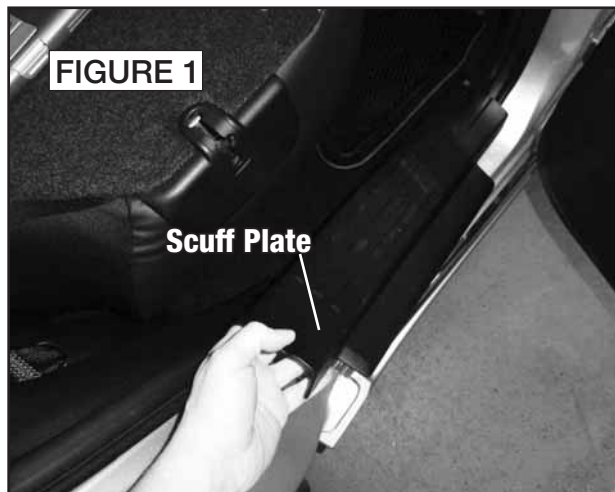
1. Pry up rear side door scuff plate to release nine (9) clips. Remove scuff plate (Figure 1).
2. Starting at the top, pry off lower seat belt anchor cover. Remove one (1) 14mm bolt securing seat belt anchor and allow seat belt to hang (Figure 2).
3. Pry up hatch door scuff plate to release thirteen (13) clips and remove plate (Figure 3).
4. Pry open lower cargo hook screw cover and remove one (1) 10mm bolt, then remove cargo hook assembly (Figure 4).

Continued on the next page.

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.



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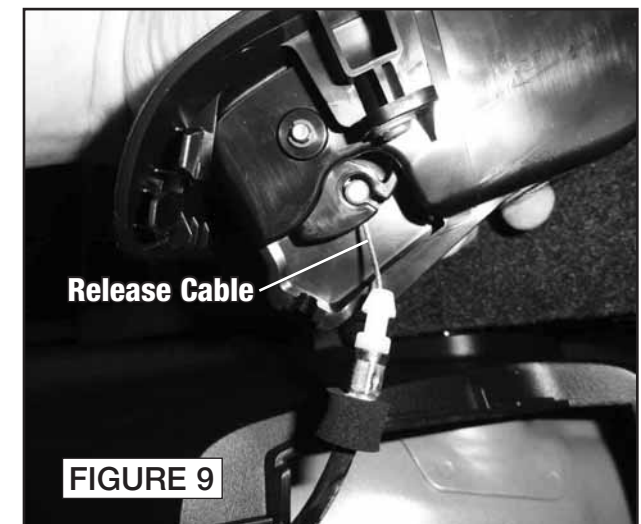
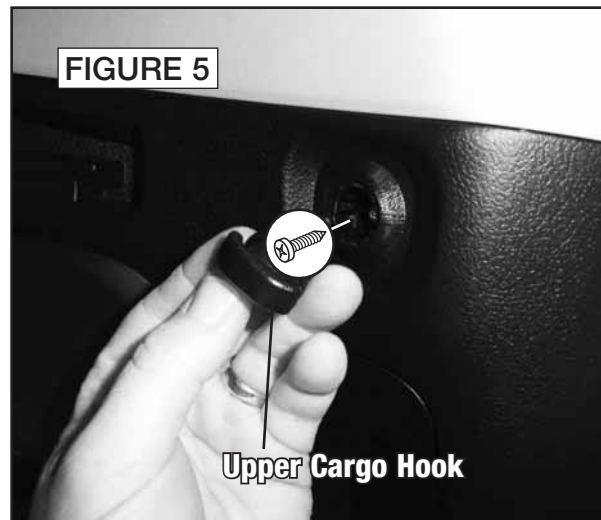
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Rear Side Subwoofer (continued)

5. Twist upper cargo hook to remove. Remove one (1) exposed Phillips screw (Figure 5).
6. Pry out two (2) screw covers on rear side panel and remove one (1) Phillips screw from each location (Figure 6).
7. Pull off side door gasket along rear side panel (Figure 7).
8. Fold down rear seat back.
9. Pry seat release assembly toward center of vehicle to release clips. Disconnect release cable and remove assembly (Figures 8 & 9).

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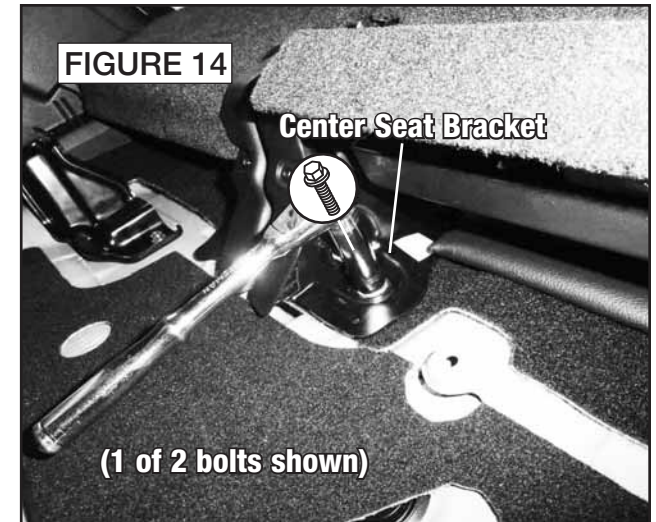
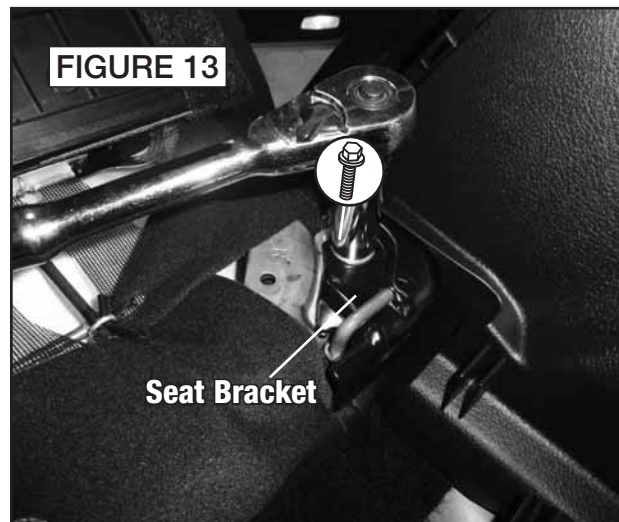
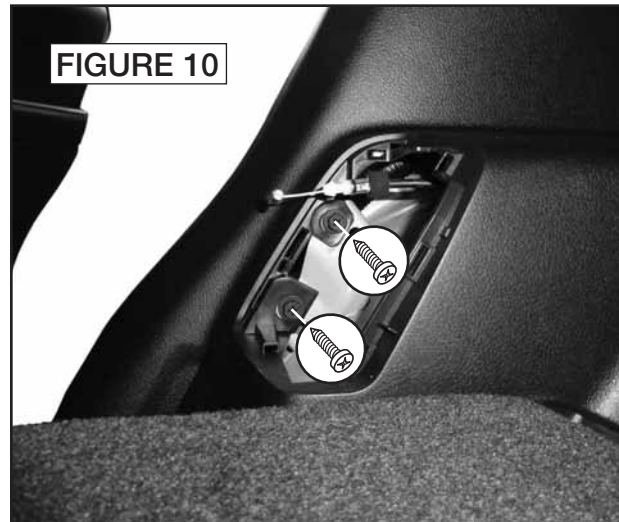


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Rear Side Subwoofer (continued)

10. Remove two (2) Phillips screws exposed by removal of seat release assembly (Figure 10).
11. Pry open both front cargo hook screw covers and remove one (1) 10mm bolt at each location. Remove both cargo hook assemblies (Figure 11).
12. Pry up front cargo floor panel to release three (3) clips and remove panel (Figure 12).
13. Pry up lower panel on rear seat back to release one (1) clip and remove one (1) exposed 14mm bolt from seat bracket (Figure 13).
14. Remove two (2) 14mm bolts securing center seat bracket to body. **Note:** The seat must be "UP" to remove one bolt and "DOWN" to remove the other (Figure 14).

Continued on the next page.



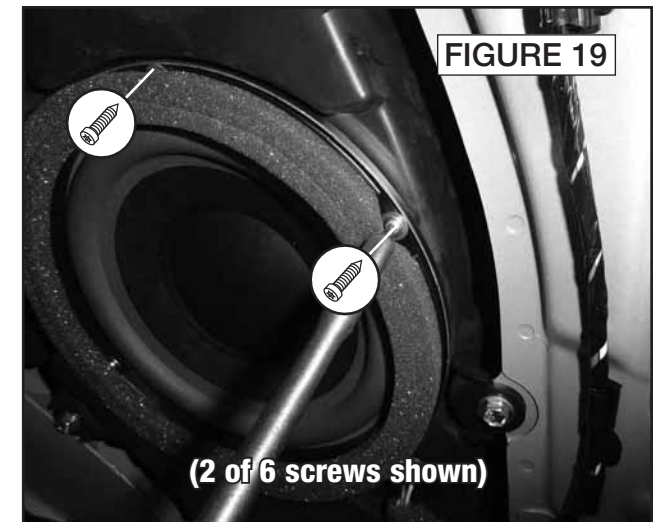
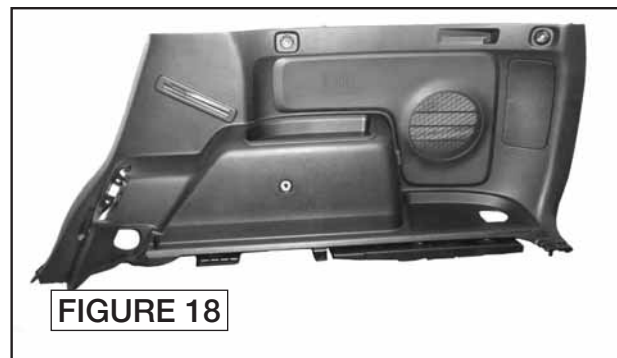
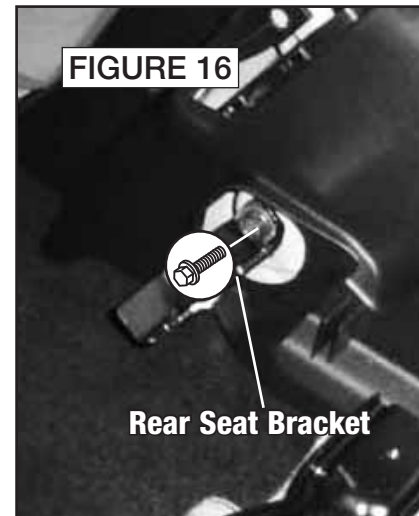
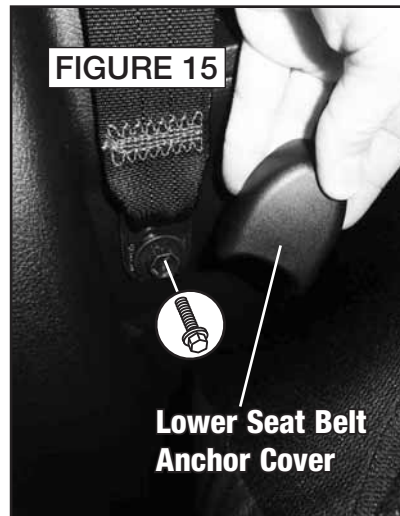
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Rear Side Subwoofer (continued)

15. Pry off lower seat belt anchor cover. Remove one (1) 14mm bolt securing lower seat belt anchor and allow seat belt to hang (Figure 15).
16. Remove one (1) 12mm bolt securing rear seat bracket to body and remove bracket (Figure 16).
17. Lift carpet at base of rear side panel and remove one (1) exposed Phillips screw (Figure 17).
18. Pry out sides and top of rear side panel to release clips. Disconnect wiring harnesses and remove panel (Figure 18).
19. Remove six (6) Torx T20 screws securing subwoofer to enclosure. Pry out subwoofer and disconnect wiring harnesses to remove (Figure 19).
20. Place new speaker in location and mark locations for new mounting holes. Remove speaker and drill holes with a 1/8" bit.
21. Connect speaker wiring adapter of replacement speaker to vehicle speaker harness and secure speaker to location.
22. Test operation and reassemble rear of vehicle by reversing disassembly 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

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



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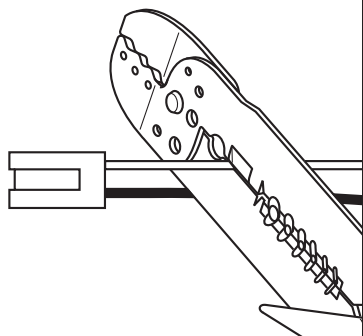
Wire Splicing Guide

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.

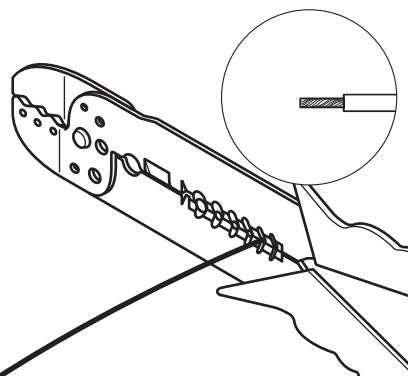
CRIMP METHOD

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

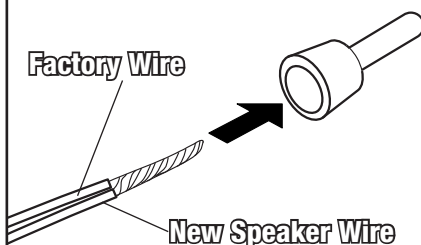
1. Cut factory wires behind factory speaker harness.



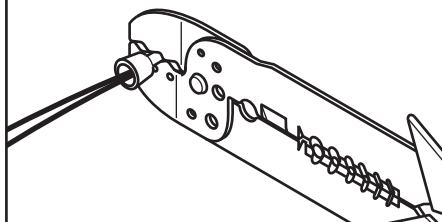
2. Strip end of each wire back 1/2".



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



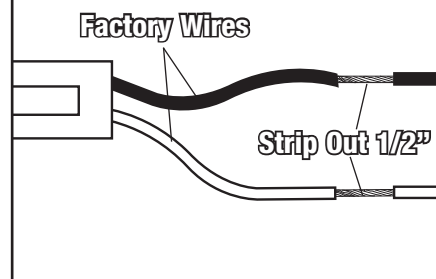
4. Squeeze middle of cap for tight connection.
5. Connect new wires to speaker with spade connectors.



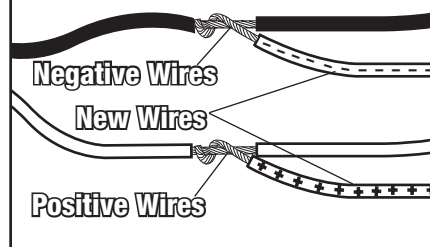
SOLDER METHOD

New speaker wires are spliced into factory wires behind harness.

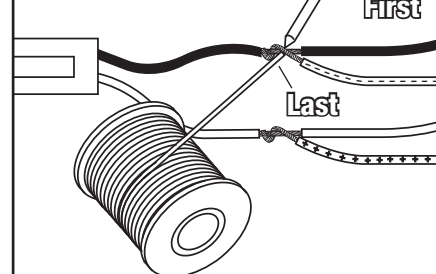
1. Carefully strip out a 1/2" section on each factory speaker wire behind the factory speaker harness.



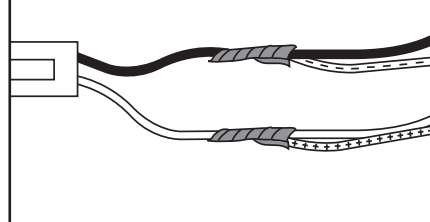
2. Twist wires from new speaker to stripped sections of factory wires as shown making sure polarity is correct.



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.

Function	Polarity/Color/Location
Left corner dash speaker	Positive (+): violet or light green, Negative (-): light green or blue
Right corner dash speaker	Positive (+): pink or violet, Negative (-): yellow or pink
Left front door speaker	Positive (+): light green, Negative (-): blue
Right front door speaker	Positive (+): light green, Negative (-): blue
Left rear door speaker	Positive (+): red, Negative (-): white
Right rear door speaker	Positive (+): red, Negative (-): white
Left cargo door speaker	Positive (+): pink, Negative (-): yellow
Right cargo door speaker	Positive (+): black, Negative (-): white
Rear side subwoofer voice coil #1	Positive (+): black, Negative (-): green or white
Rear side subwoofer voice coil #2	Positive (+): violet or blue, Negative (-): yellow or pink
NOTES: - The speaker wire colors listed above are at the speaker location unless otherwise noted. - If equipped with a factory amplifier, the amplifier will be attached to the subwoofer enclosure behind the passenger's side rear side panel.	

Continued on the next page.

Wire Splicing Guide (continued)

Function	Polarity/Color/Location
Vehicle speed sense ¹	Option 1: radio, 5-pin gray plug, pin 3 - light blue
	Option 2: radio, 28-pin plug, pin 17 - light blue
	Option 3: radio, 28-pin plug, pin 27 - light blue
	Option 4: driver's kick panel, 48-pin white plug, pin 11 - green
Reverse (+) ¹	Option 1: radio, 5-pin gray plug, pin 5 - red
	Option 2: radio, 28-pin plug, pin 2 - red
	Option 3: radio, 28-pin plug, pin 28 - black
	Option 4: dash fuse box, 36-pin white plug (2F), pin 4 - red
Parking brake ¹	Option 1: radio, 5-pin gray plug, pin 1 - light green
	Option 2: radio, 28-pin plug, pin 15 - light green
	Option 3: radio, 28-pin plug, pin 20 - light green
	Option 4: dash fuse box, 40-pin white plug (2D), pin 17 - light green
Foot brake ¹	Option 1: at brake switch - blue
	Option 2: driver's kick panel, 18-pin white plug, pin 15 - blue
	Option 3: dash fuse box, 36-pin white plug (2F), pin 29 - violet/green to blue
	Option 4: at brake switch, 7-pin blue plug, pin 3 - red
NOTES: ¹These wires and functions may also be generated by the OEM integration interface used when replacing the radio.	

