

MasterSheet

027 0030
Revision 12/10/19



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**.

2018-
Jeep Wrangler JL
Jeep Wrangler JL Unlimited
2020-
Jeep Gladiator



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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Tools Required ▶

Phillips and Flat Blade Screwdriver	Right Angle Phillips Screwdriver	7mm Open-End Wrench	Panel Tool	T20 Torx Driver	T25 Torx Driver	T40 Torx Driver	5mm Allen Wrench	Drill & 1/8" Bit	7/16" Socket, Ratchet & Extension	10mm Socket, Ratchet & Extension	Wire Strippers & Crimp Caps

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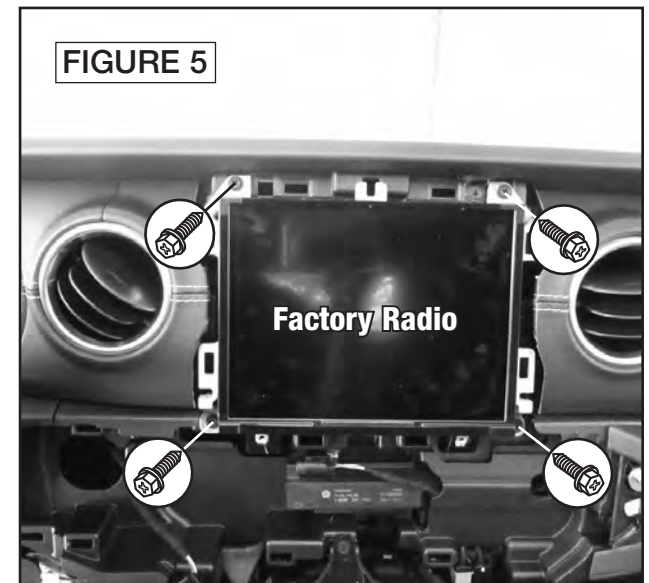
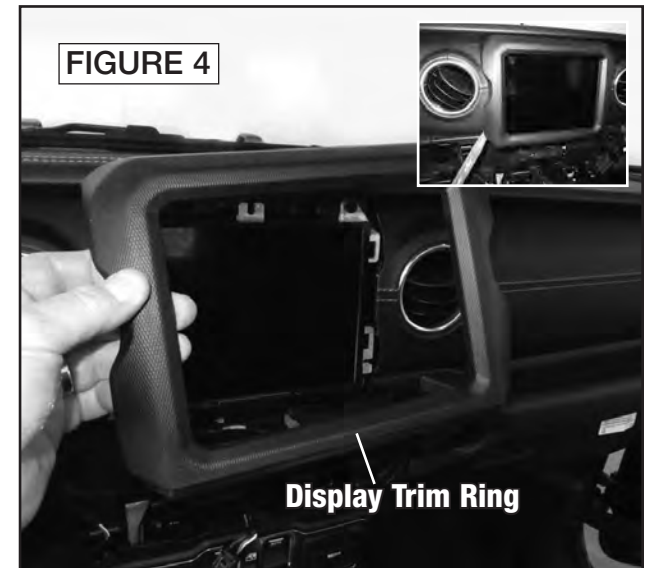
IMPORTANT: Disconnect negative battery cable before all operations in order to avoid an electrical short or accidental airbag deployment.

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

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Factory Radio Removal

1. Set parking brake and disconnect negative battery cable to prevent any electrical short.
2. Pry off driver's side knee panel to release six (6) clips and remove panel (Figure 1).
3. Pry off climate control/receiver trimpanel to release ten (10) clips. Disconnect wiring harnesses and remove panel (Figure 2).
4. Remove two (2) Phillips screws exposed by removal of climate control/receiver trimpanel (Figure 3).
5. Pry off display trim ring to release six (6) clips and remove trim ring (Figure 4).
6. Remove four (4) Phillips screws securing factory radio. Disconnect wiring harnesses and remove radio (Figure 5).



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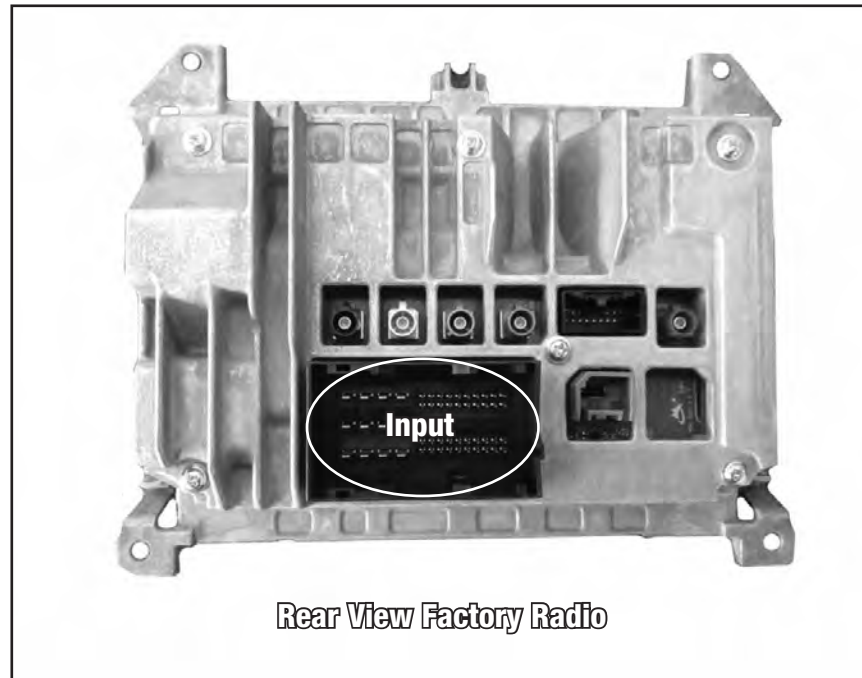
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OEM Integration

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

1. Remove factory radio following instructions on the previous page.
2. Follow instructions supplied with the accessory device.
3. Connect optional adaptor to input as shown.
4. Test operation of adaptor and reassemble dash by reversing disassembly steps.



Rear View Factory Radio

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Corner Dash 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.*

1. Pry up corner dash speaker grille to release four (4) clips and remove grille (Figure 1).
2. Remove two (2) Phillips screws securing speaker. Pull out speaker, disconnect and remove (Figure 2).
3. Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness. Secure new speaker to location with screws previously removed.
4. Test speaker operation and reinstall speaker grille.



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Knee Panel Speakers



IMPORTANT

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

Driver's Side:

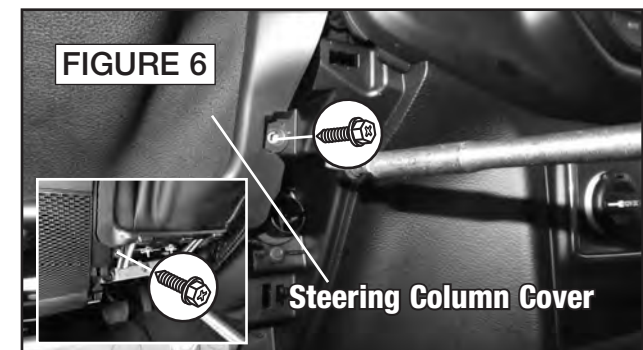
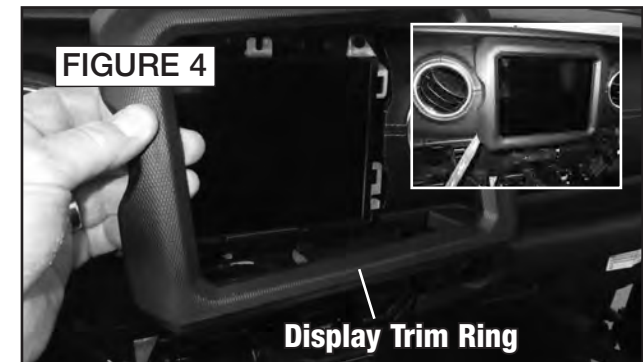
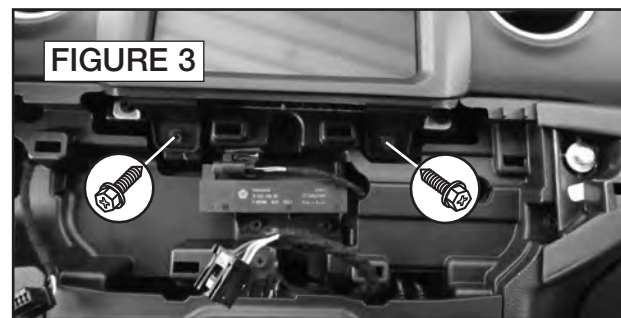
1. Pry off driver's side knee panel to release six (6) clips and remove panel (Figure 1).
2. Pry off climate control/receiver trimpanel to release ten (10) clips. Disconnect wiring harnesses and remove panel (Figure 2).
3. Remove two (2) Phillips screws exposed by removal of climate control/receiver trimpanel (Figure 3).
4. Pry off display trim ring to release six (6) clips and remove trim ring (Figure 4).
5. Remove one (1) Phillips screw exposed by removal of display trim ring (Figure 5).
6. Remove two (2) Phillips screws securing bottom edge of steering column cover, then pull out cover to release four (4) clips. Allow column cover to hang (Figure 6).

Continued on the next page.

NOTES:

Please read first

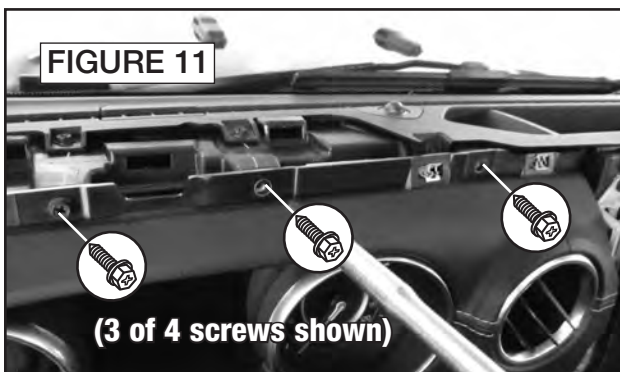
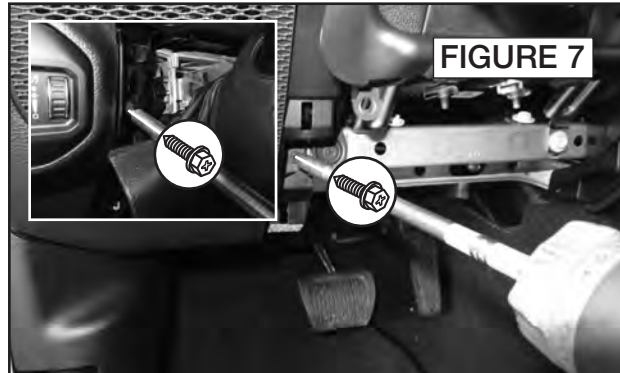
- Instructions show factory size speakers or speakers with adaptor brackets only. Cutting or fabrication (not shown) will be required for other speaker sizes.



Knee Panel Speakers (continued)

7. Remove two (2) Phillips screws exposed by removal of steering column cover (Figure 7).
8. Pry off driver's side dash end cap to release five (5) clips and remove cap (Figure 8).
9. Remove five (5) Phillips screws exposed by removal of dash end cap (Figure 9).
Note: One (1) screw will require the use of a 7mm open-end wrench.
10. Pry off upper dash trim strip to release eleven (11) clips and remove strip (Figure 10).
11. Remove four (4) Phillips screws exposed by removal of upper dash trim strip (Figure 11).
12. Pry off instrument cluster/vent trimpanel to release four (4) clips and remove trimpanel (Figure 12).

Continued on the next page.



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Knee Panel Speakers (continued)

13. Pull driver's side kick panel toward rear of vehicle to release clips and remove (Figures 13 & 14).
14. Remove one (1) 7mm screw exposed by removal of kick panel (Figure 15).
15. Remove two (2) Phillips screws from top of speaker grille panel and pull panel toward rear of vehicle, disconnect and remove (Figure 16).
16. Remove three (3) Phillips screws securing speaker. Pull out speaker, disconnect and remove (Figure 17).
17. Place new speaker in location and mark new mounting holes. Remove speaker and drill holes with a 1/8" bit.
18. Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness. Secure speaker to location.

Continued on the next page.

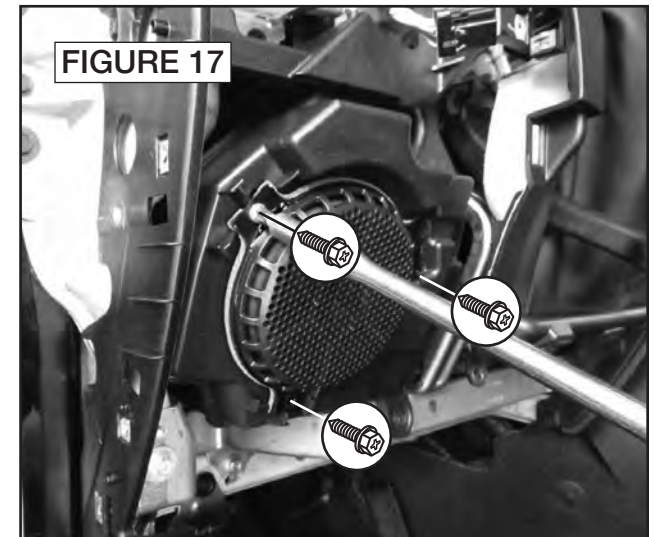
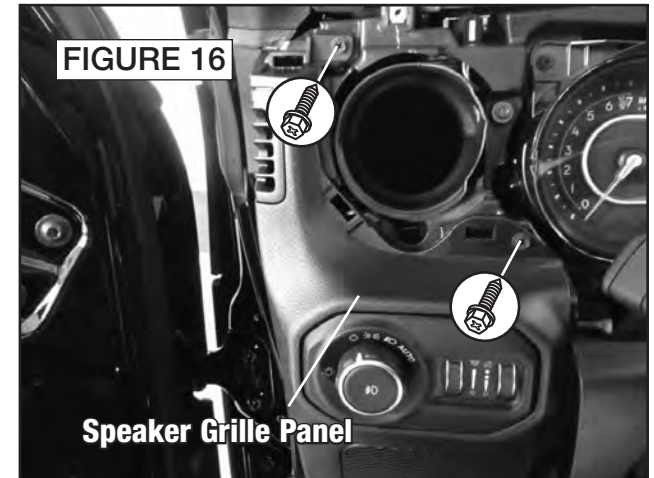


CAUTION

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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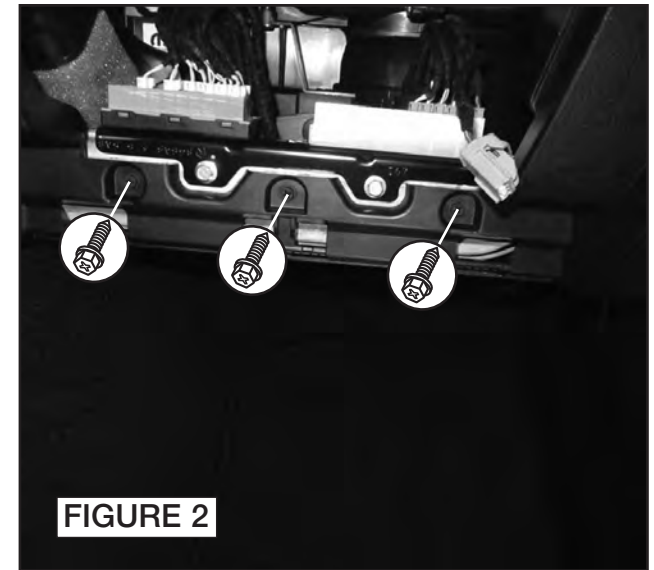
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Knee Panel Speakers (continued)

Passenger's Side:

1. Lower glove box door, then pull out glove box to remove (Figure 1).
2. Remove three (3) Phillips screws exposed by removal of glove box door (Figure 2).
3. Pry off passenger's side dash end cap to release five clips and remove cap (Figure 3).
4. Remove four (4) Phillips screws exposed by removal of dash end cap (Figure 4).
Note: One (1) screw will require a 7mm open-end wrench.

Continued on the next page.

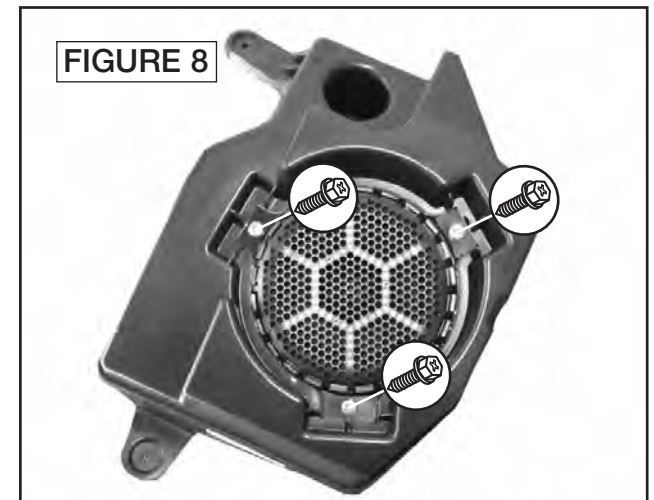
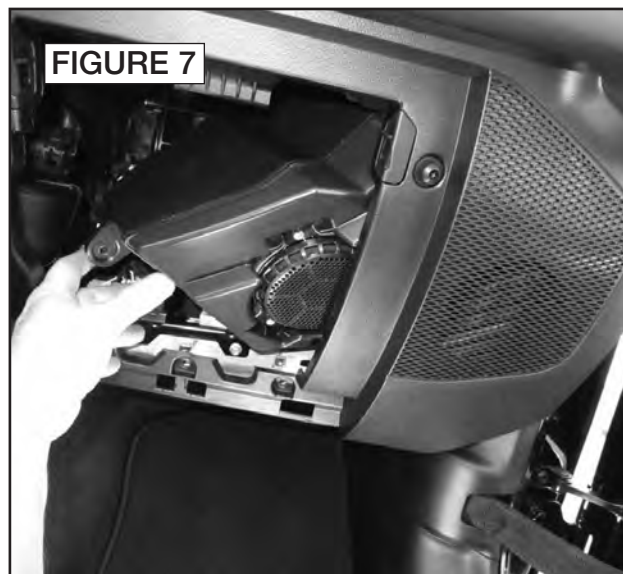
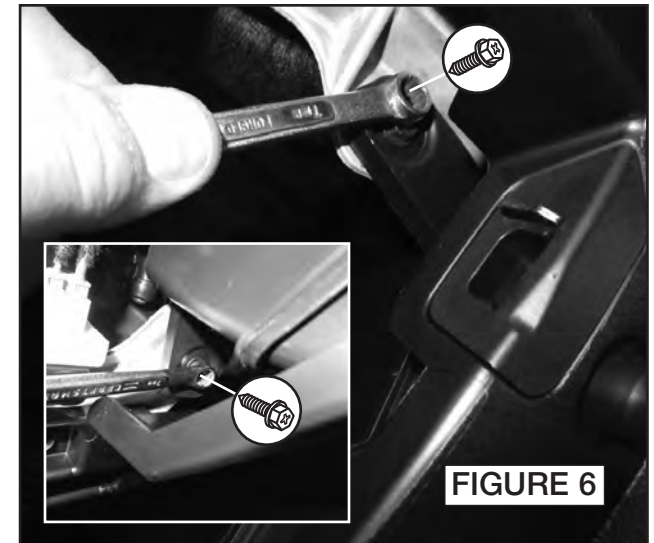
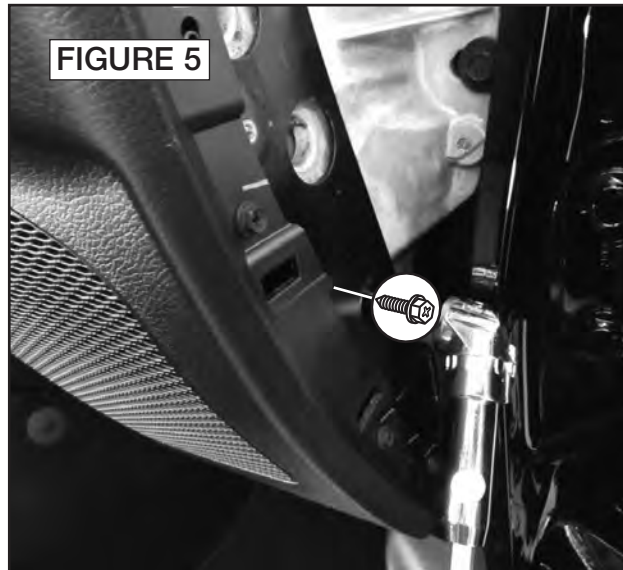


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Knee Panel Speakers (continued)

5. Remove one (1) Phillips screw located inside cavity exposed by removal of dash end cap (Figure 5).
6. Pull out grille panel enough to remove two (2) Phillips screws securing enclosure to subdash (Figure 6).
7. Disconnect enclosure wiring harness, then work enclosure out of dash through glove box opening (Figure 7).
8. Remove three (3) Phillips screws securing speaker. Pull out speaker, disconnect and remove (Figure 8).
9. Place new speaker in location and mark new mounting holes. Remove speaker and drill holes with a 1/8" bit.
10. Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness. Secure speaker to location.
11. Test speaker operation and reassemble dash by reversing disassembly steps.



CAUTION

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Sound Bar 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

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

1. Remove four (4) 5mm Allen screws securing sound bar grille and remove grille (Figure 1).

2a. Tweeter Removal & Installation:

- Remove two (2) Torx T20 screws securing tweeter to enclosure (Figure 2).
- Disconnect wiring harness and remove tweeter.
- Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness.
- Secure new tweeter to enclosure with screws previously removed.

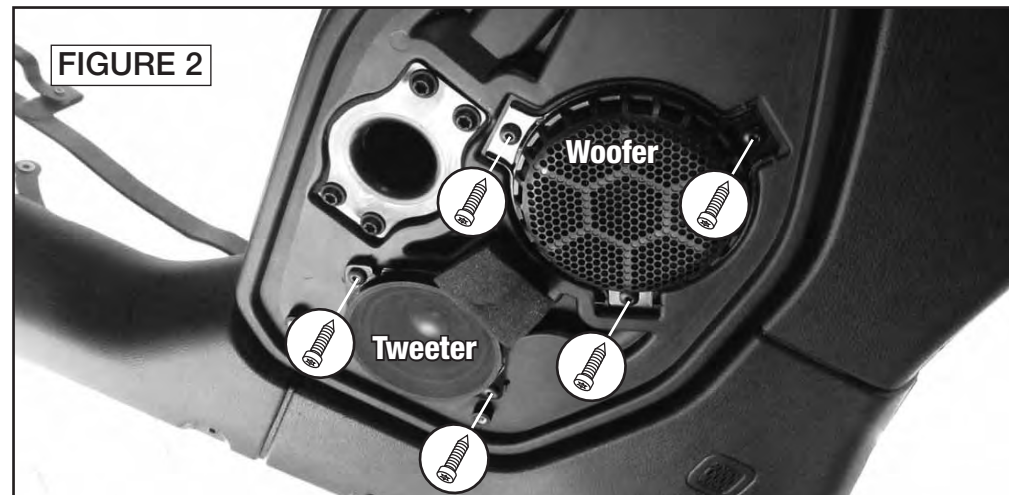
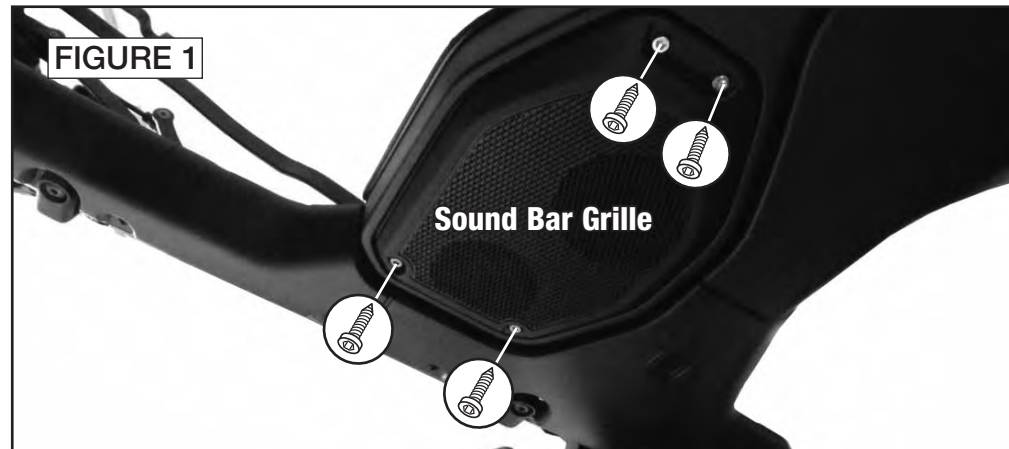
2b. Woofer Removal & Installation:

- Remove three (3) Torx T20 screws securing woofer to enclosure (Figure 2).
- Disconnect wiring harness and remove woofer.
- Place new woofer in location and mark new mounting holes. Remove speaker and drill holes with a 1/8" bit.
- Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness.
- Secure speaker to location.

3. Test speaker operation and reinstall sound bar grille.



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Cargo Floor Subwoofer -- Wrangler

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.

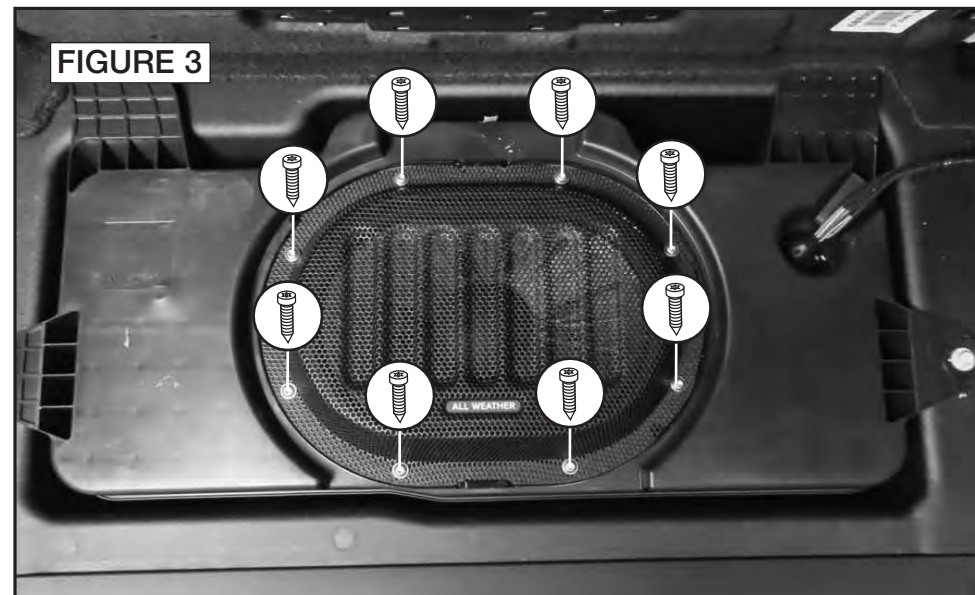
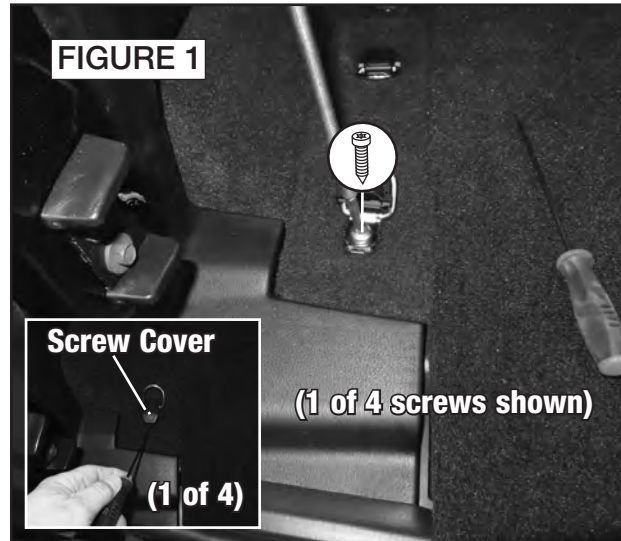


IMPORTANT

No speaker adaptor bracket is available at this time from Crutchfield for this location. It will be necessary to fabricate a mounting bracket 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. Fold rear seat forward.
2. Pry open screw covers on four (4) floor cargo hooks and remove one (1) Torx T40 screw from each hook. Remove hooks and hook panels (Figures 1 & 2).
3. Lift cargo floor panel and remove.
4. Remove eight (8) Torx T25 screws securing subwoofer to enclosure. Disconnect wiring harness and remove subwoofer (Figure 3).
5. Fabricate a speaker mounting bracket and secure speaker to bracket.
6. Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness. Secure speaker/bracket assembly to location.
7. Test speaker operation and reassemble rear of vehicle by reversing disassembly steps.



Rear Side Subwoofer -- Wrangler Unlimited

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.



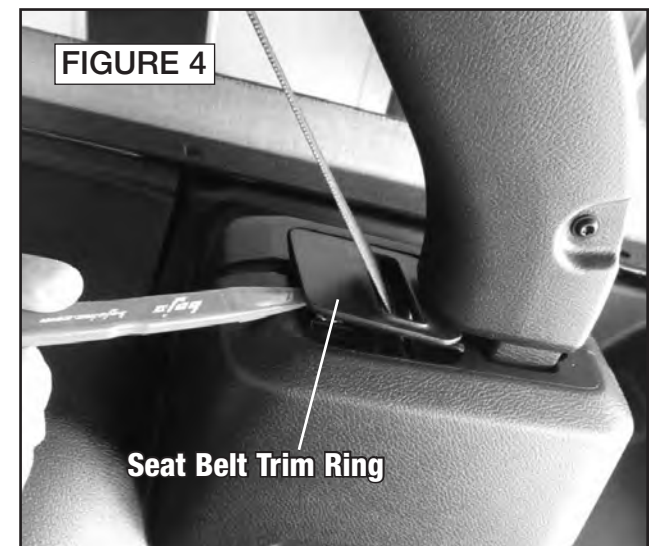
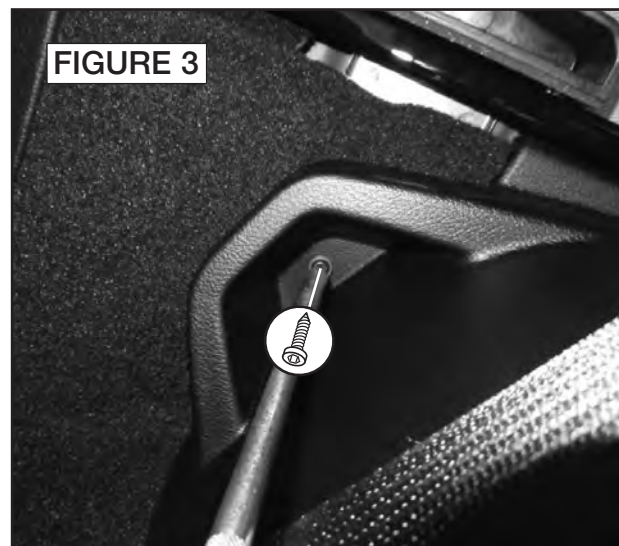
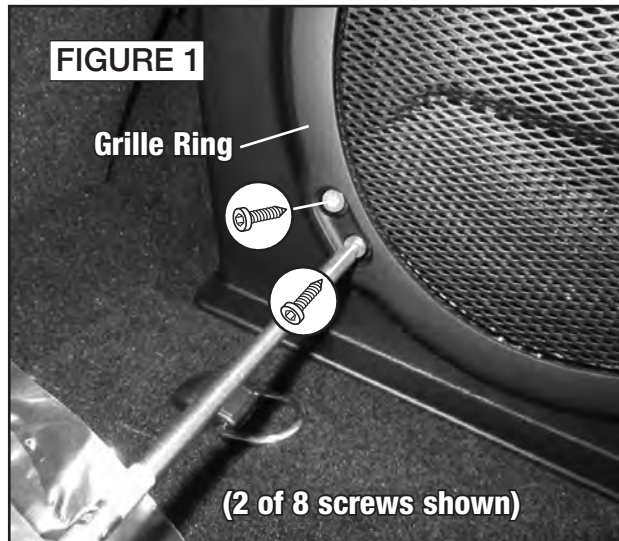
IMPORTANT

No speaker adaptor bracket is available at this time from Crutchfield for this location. It will be necessary to fabricate a mounting bracket 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. Remove eight (8) 5mm Allen screws securing grille ring and remove ring (Figure 1).
2. Lift cargo floor panel, then pull up accessory trimpanel to remove (Figure 2).
3. Remove one (1) Torx T20 screw inside rear side panel cavity (Figure 3).
4. Pry up seat belt trim ring (Figure 4).

Continued on the next page.

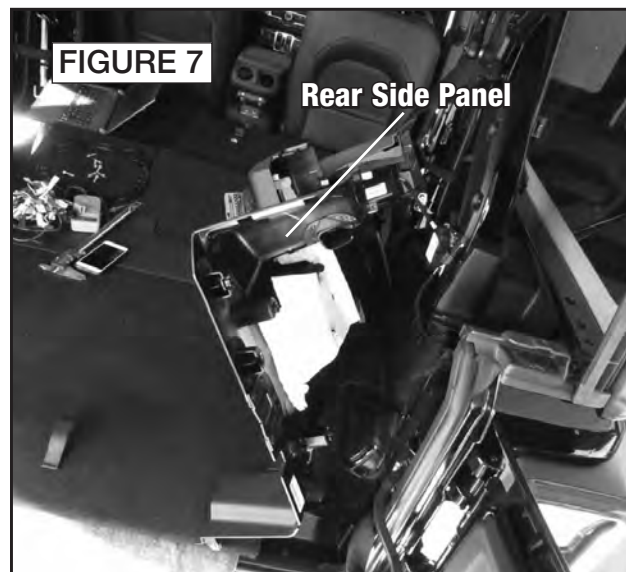
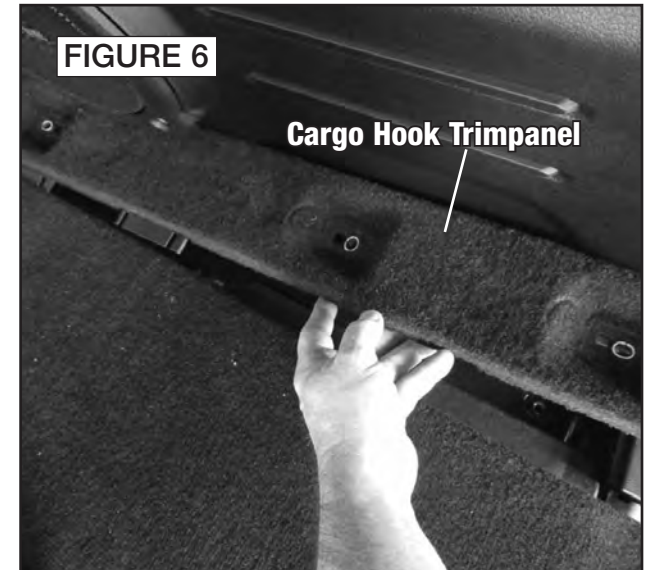
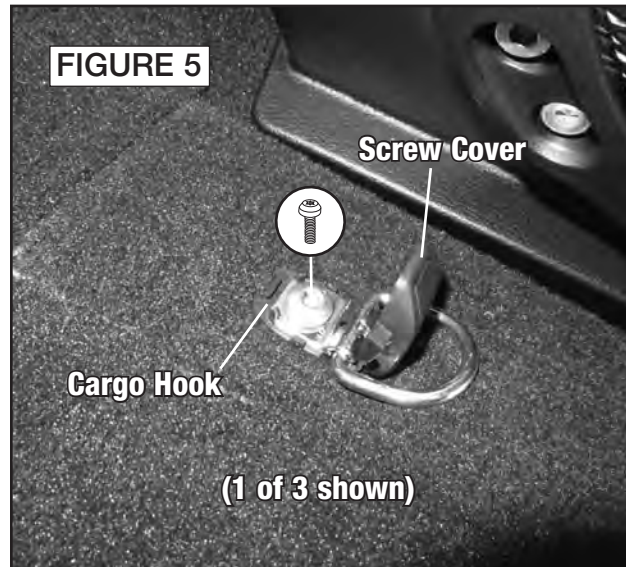


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Rear Side Subwoofer (continued)

5. Pry open screw covers on three (3) cargo hooks, then remove one (1) Torx T40 screw at each location and remove cargo hooks (Figure 5).
6. Lift cargo hook trimpanel to remove (Figure 6).
7. Pry out rear side panel to release clips, disconnect wiring harness and remove rear side panel (Figure 7).
8. Remove one (1) Torx T25 screw on back of subwoofer enclosure. Disconnect wiring harnesses and remove subwoofer (Figure 8).
9. Fabricate a speaker mounting bracket and secure new subwoofer to bracket.
10. Connect speaker wiring adaptor of replacement speaker to vehicle speaker harness. Secure speaker/bracket assembly to enclosure.
11. Test speaker operation and reassemble rear of vehicle by reversing disassembly steps.



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Rear Wall Subwoofer -- Gladiator

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

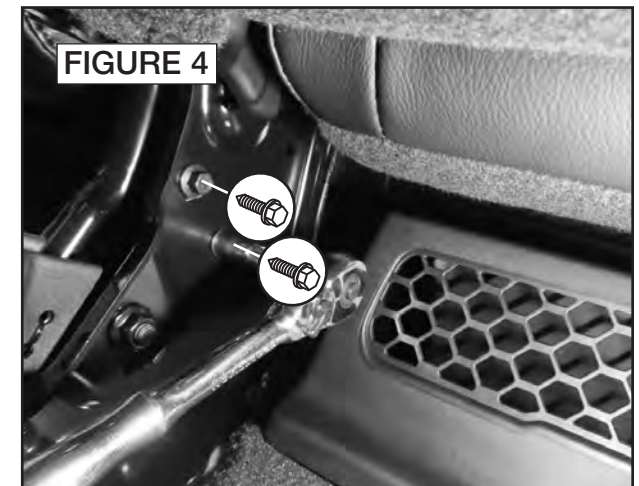
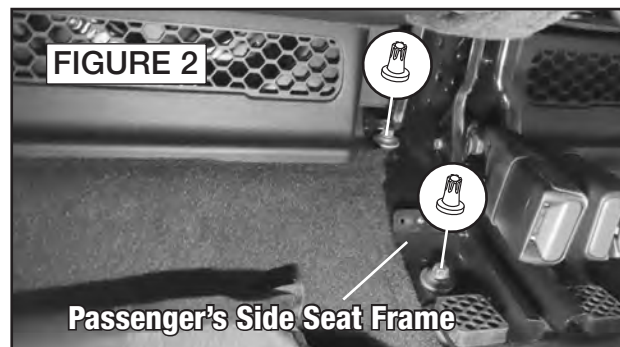
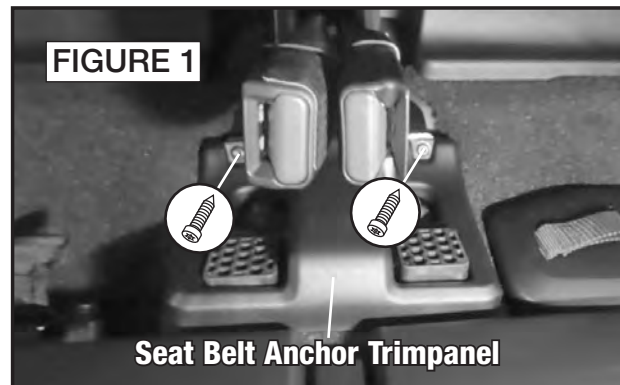
No speaker wiring adaptor is available at this time from Crutchfield for this location. It will be necessary to splice wires in order to install an aftermarket speaker.

No speaker adaptor bracket is available at this time from Crutchfield for this location. It will be necessary to fabricate a mounting bracket 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.

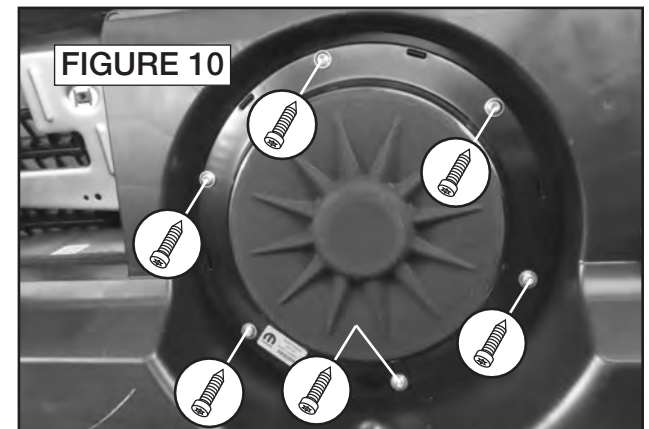
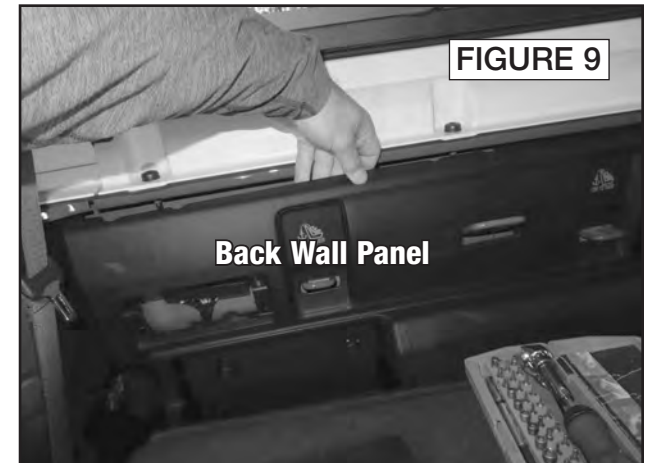
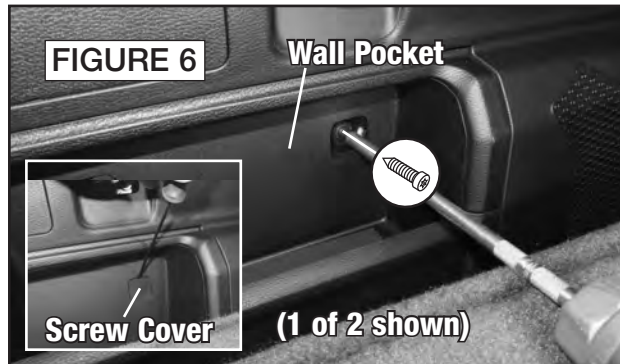
1. Lift both rear seat bottom cushions.
2. Remove two (2) Torx T25 screws securing seat belt anchor trimpanel and remove trimpanel (Figure 1).
3. Remove four (4) reverse Torx bolts securing passenger's side seat frame with a 7/16" socket (Figures 2 & 3).
4. Remove two (2) 10mm bolts securing both seat frames together (Figure 4).
5. Lift passenger's seat assembly and carefully remove (Figure 5). **Note:** Use caution when removing seat assembly to prevent damage to vehicle.

Continued on the next page.



Rear Wall Subwoofer -- Gladiator (continued)

6. Fold down driver's side seat back cushion.
7. Pry out two (2) screw covers inside back wall pocket, then remove one (1) Torx T25 screw at each location (Figure 6).
8. Pull pocket toward front of vehicle to release nine (9) clips and remove pocket (Figure 7).
9. Pry out two (2) access covers on back wall to release four (4) clips and remove covers (Figure 8).
10. Pry off back wall panel to release twenty-six (26) clips, then lift panel to remove (Figure 9).
11. Remove six (6) Torx T25 screws securing subwoofer to enclosure. Disconnect wiring harness and remove subwoofer (Figure 10).
12. Fabricate a speaker mounting bracket and secure new subwoofer to bracket.
13. Make wiring connections following instructions on page 16. Return to this page to complete installation.
14. Secure subwoofer/bracket assembly to enclosure.
15. Test speaker operation and reassemble rear of vehicle by reversing disassembly steps.



SAFETY CHECK

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



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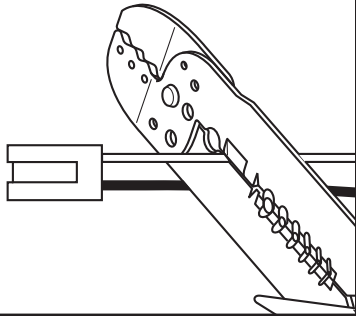
Wire Splicing Guide

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

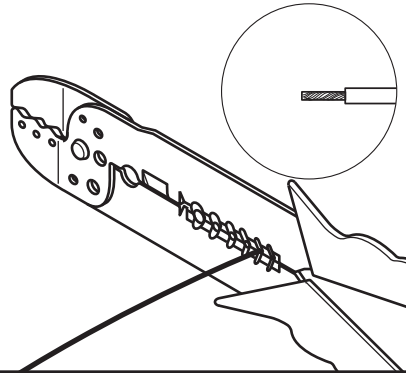
CRIMP METHOD

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

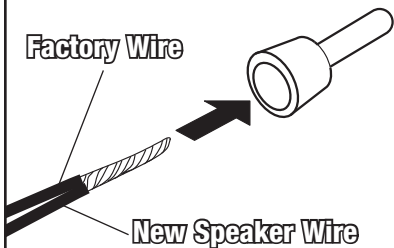
1. Cut factory wires behind factory speaker harness.



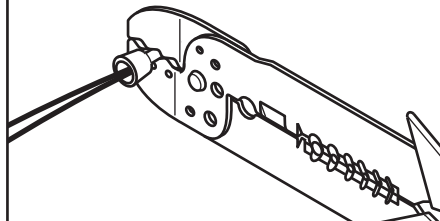
2. Strip end of each wire back 1/2".



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



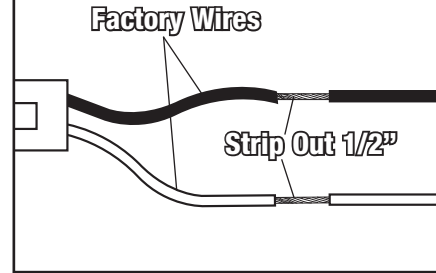
4. Squeeze middle of cap for tight connection.
5. Connect new wires to speaker with spade connectors.



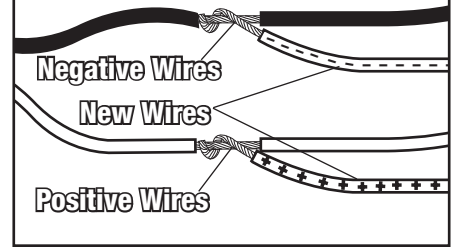
SOLDER METHOD

New speaker wires are spliced into factory wires behind harness.

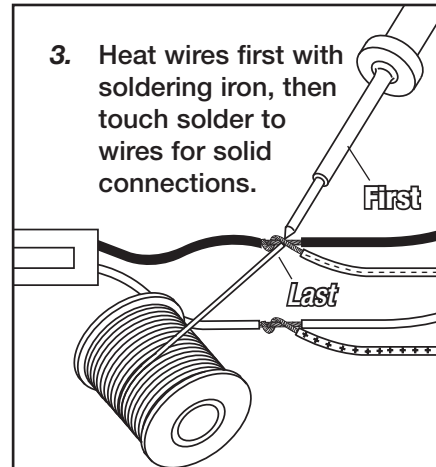
1. Carefully strip out a 1/2" section on each factory speaker wire behind the factory speaker harness.



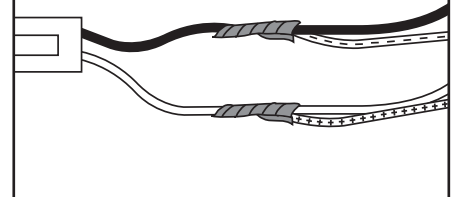
2. Twist wires from new speaker to stripped sections of factory wires as shown making sure polarity is correct.



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.

Function	Polarity/Color/Location
Left corner dash speaker	positive (+): gray/violet or gray/orange, negative (-): gray/yellow
Right corner dash speaker	positive (+): dark green/violet or gray/dark green, negative (-): dark green/yellow or gray/green
Left dash knee panel speaker	positive (+): gray/violet or green, negative (-): gray/yellow or black
Right dash knee panel speaker	positive (+): dark green/violet or green, negative (-): dark green/yellow or black
Left soundbar speaker	positive (+): gray/light green or white, negative (-): gray/dark green or black
Left soundbar tweeter	positive (+): dark green/dark blue or black, negative (-): dark green/beige or white
Right soundbar speaker	positive (+): dark green/light green, negative (-): dark green/gray
Right soundbar tweeter	positive (+): gray/dark blue, negative (-): gray/beige
Subwoofer voice coil #1	positive (+): gray/brown or orange, negative (-): dark green/brown or orange/blue
Subwoofer voice coil #2	positive (+): gray/white or green, negative (-): dark green/white
Subwoofer voice coil #3	positive (+): gray/orange or brown, negative (-): dark green/orange or brown/yellow
Subwoofer voice coil #4	positive (+): gray/violet or gray, negative (-): dark green/violet or gray/red
Vehicle speed sense ¹	passenger's kick panel, black 34-pin plug, pin 27 - dark green/green
Reverse (+) ¹	BCM ² , white 48-pin plug (F), pin 41 - white/tan
Parking brake ¹	BCM ² , black 48-pin plug (E), pin 11 - dark green/white
Foot brake ¹	BCM ² , white 24-pin plug (D), pin 18 - dark green/white
NOTES:	
<ul style="list-style-type: none"> • If equipped with a factory amplifier, the amplifier will be located under the driver's side dash. • ¹These wires and functions may also be generated by the OEM integration interface used when replacing the radio. • ²BCM (Body Control Module) is located above the passenger's kick panel. 	