

# ResearchNotes™

Disassembly instructions from our Vehicle Research Team

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2021-up Ford Bronco  
(without B&O audio system)

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# CRUTCHFIELD®

2641900026



## Disconnect the battery

Set parking brake and disconnect negative battery cable to prevent any electrical short. Refer to the vehicle's owner's manual for information on disconnecting the battery.



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 1-888-955-6000**.

Although reasonable attempts are made to verify the accuracy of the information contained in these ResearchNotes, 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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# Vehicle wiring guide

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 splice or tap the wires. Some wiring may not be present depending on your vehicle's audio system.

FUNCTION	POLARITY/COLOR/LOCATION
Left corner dash speaker	Positive (+): green/blue, Negative (-): gray/blue
Right corner dash speaker	Positive (+): violet/gray, Negative (-): yellow/gray
Left kick panel woofer	Positive (+): blue or gray/violet, Negative (-): gray/brown or brown
Right kick panel woofer	Positive (+): yellow/orange or violet/brown, Negative (-): green/brown or white/brown
Left soundbar speaker	Positive (+): black/white or brown/blue, Negative (-): black or white
Right soundbar speaker	Positive (+): black/gray or violet/orange, Negative (-): black or yellow/gray
Rear side panel subwoofer voice coil #1	Positive (+): black, Negative (-): black/white
Rear side panel subwoofer voice coil #2	Positive (+): black, Negative (-): black/white
Speed sense <sup>1</sup> (2.3L engine)	brown/red or brown/green - PCM <sup>2</sup> , 126-pin plug (E), pin 72
Speed sense <sup>1</sup> (2.7L engine)	brown/red or brown/green - PCM <sup>2</sup> , 90-pin plug (T), pin 71
Reverse (+) <sup>1</sup>	green/brown - Body Control Module/dash fuse box, black 36-pin plug (J3-C), pin 11
Parking brake <sup>1</sup>	Use radio replacement interface if available.
Foot brake <sup>1</sup>	Option 1: violet/white - brake switch, white 4-pin plug, pin 4
	Option 2: violet/white - Body Control Module/dash fuse box, gray 22-pin plug (J1-A), pin 1

## NOTES:

- The speaker wire colors listed above are at the speaker location unless otherwise noted.
- If the vehicle is equipped with a factory amplifier, you'll find it behind the passenger's side rear side panel.
- <sup>1</sup>If available, these wires and functions may also be generated by the OEM integration interface used when replacing the radio.
- <sup>2</sup>PCM (Power-train Control Module) is located on the passenger's firewall.



# Receiver harnesses

## ACCESS INSTRUCTIONS

Tools Required: Panel tool, Torx T30 driver, clean shop towel, 7mm socket, ratchet and extension

1. Open glove box door and push in tabs to release door. Disconnect glove box door retainer, then allow glove box door to hang by hinges.
2. Remove one (1) 7mm screw exposed by removal of glove box door.
3. Pry out top edges of driver's side knee panel to release eight (8) clips, then allow panel to hang by hinges.
4. Remove one (1) 7mm screw exposed by removal of driver's side knee panel.
5. If equipped, remove two (2) Torx T30 screws securing center console grab bar, then remove grab bar.
6. Protect center console with clean shop towel.
7. Pull radio/climate control panel toward rear of vehicle to release eight (8) clips, disconnect harnesses, then remove control panel.
8. Access receiver harnesses along bottom edge of receiver chassis.

### Important information about your vehicle

- You can't replace the radio in your vehicle because of dash configuration, safety issues, or electrical compatibility.
- Receiver harness access is shown for OEM integration purposes only.
- Receiver wiring can be found on the next two pages.



# Receiver wiring

NOTE: If our wiring pin numbers don't match the actual pin numbers on your factory plug, refer to the wire colors and locations below.

**Harness 1 of 2**

PIN #	FUNCTION/POLARITY	COLOR
1	Chassis ground	black/light blue
2	Right front speakers (+)	yellow/orange
3	Right front speakers (-)	light green/brown
4	Constant 12 volt power	violet/red
5	Right rear speaker (+)	light green/violet
6	Right rear speaker (-)	gray
7	Left front speakers (+)	blue
8	Left front speakers (-)	gray/brown
9	Left rear speaker (+)	gray/violet
10	Left rear speaker (-)	brown/gray
11		
12		
13	Data	lt. green/blue & lt. green
14		
15		
16		

**Harness 1 of 2 (continued)**

PIN #	FUNCTION/POLARITY	COLOR
17		
18	Function unknown at this time.	gray/violet
19		
20		
21		
22		
23		
24	Data	white/lt. green & white
25		
26		
27		
28		
29	Function unknown at this time.	yellow/red
30		
31		
32		



# Receiver wiring

NOTE: If our wiring pin numbers don't match the actual pin numbers on your factory plug, refer to the wire colors and locations below.

**Harness 2 of 2**

PIN #	FUNCTION/POLARITY	COLOR
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11	Function unknown at this time.	violet/gray
12	Function unknown at this time.	blue
13	Function unknown at this time.	pink/white
14	Function unknown at this time.	brown/blue
15		
16		

**Harness 2 of 2 (continued)**

PIN #	FUNCTION/POLARITY	COLOR
17		
18		
19		
20		
21		
22	Function unknown at this time.	brown/white
23	Function unknown at this time.	tan
24	Function unknown at this time.	blue
25	Function unknown at this time.	blue
26		
27		
28		
29		
30		
31		
32		

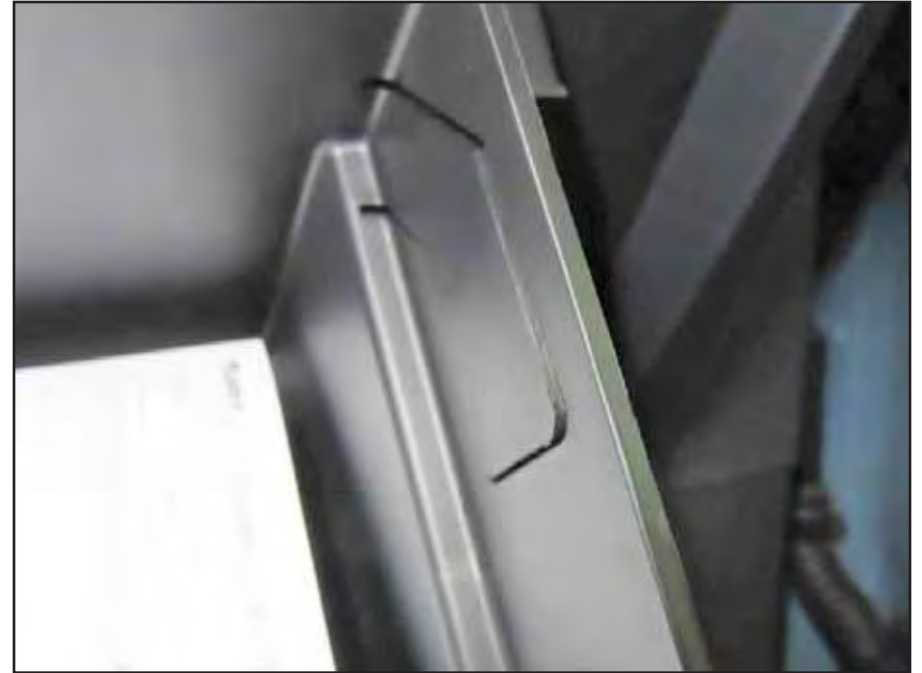


**Note:** Receiver replacement is not recommended. Radio harness access is shown for OEM integration purposes only.



1. Open glove box door and push in tabs to release door. Disconnect glove box door retainer, then allow glove box door to hang by hinges.







2. Remove one (1) 7mm screw exposed by removal of glove box door.



3. Pry out top edges of driver's side knee panel to release eight (8) clips, then allow panel to hang by hinges.



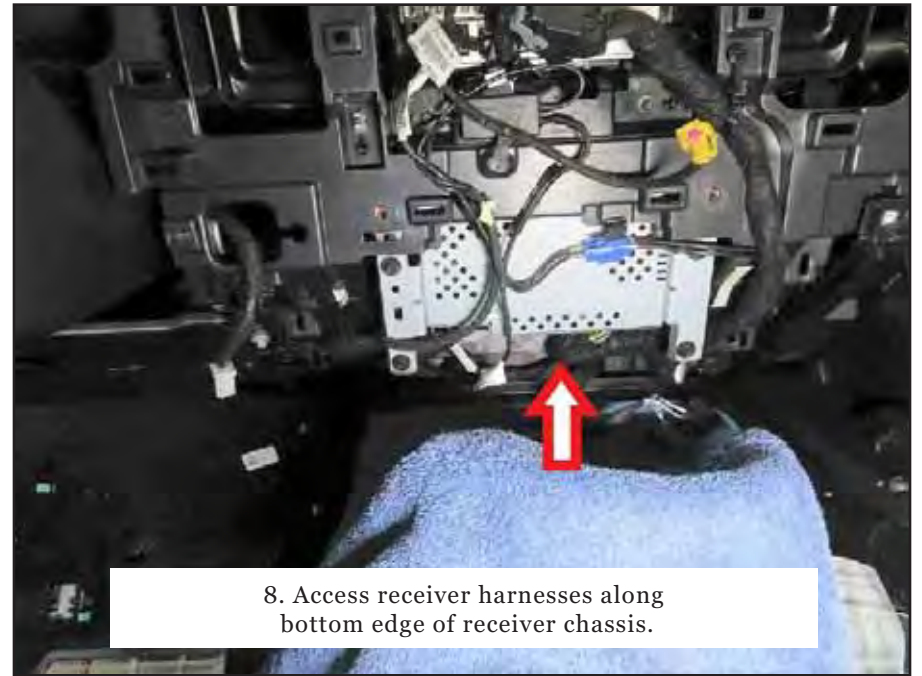
4. Remove one (1) 7mm screw exposed by removal of driver's side knee panel.



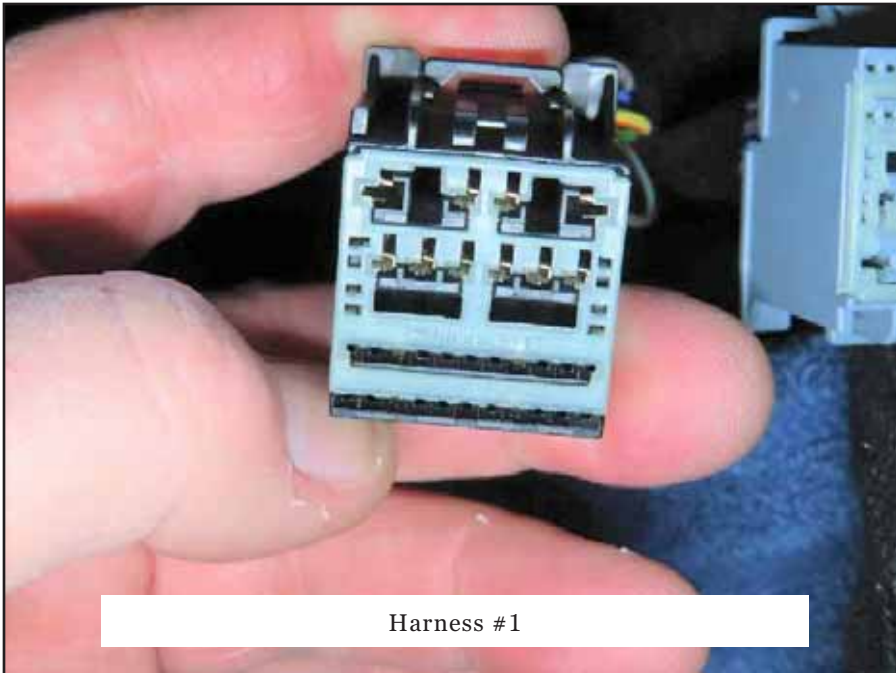
5. If equipped, remove two (2) Torx T30 screws securing center console grab bar, then remove grab bar.



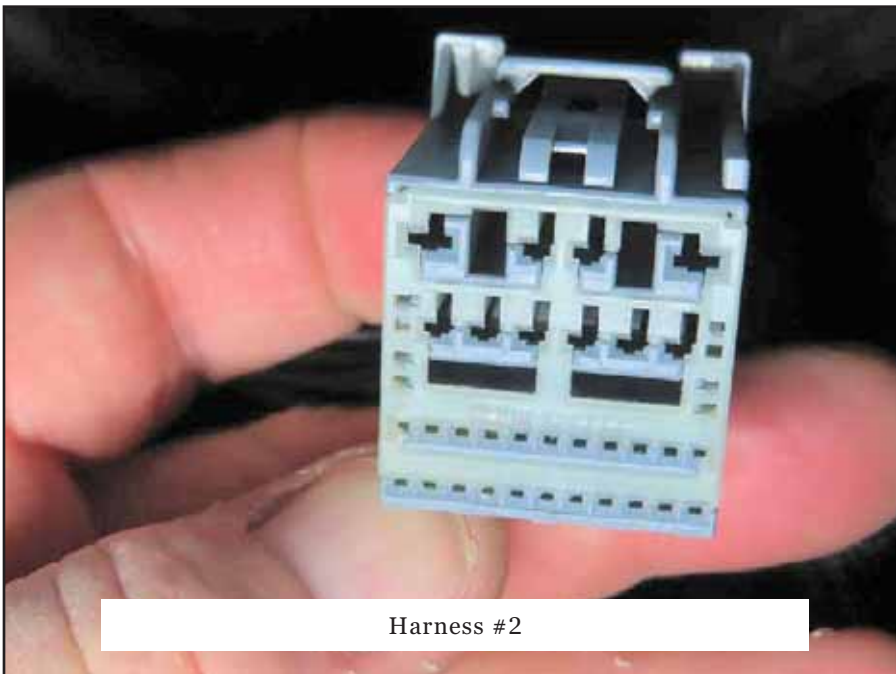




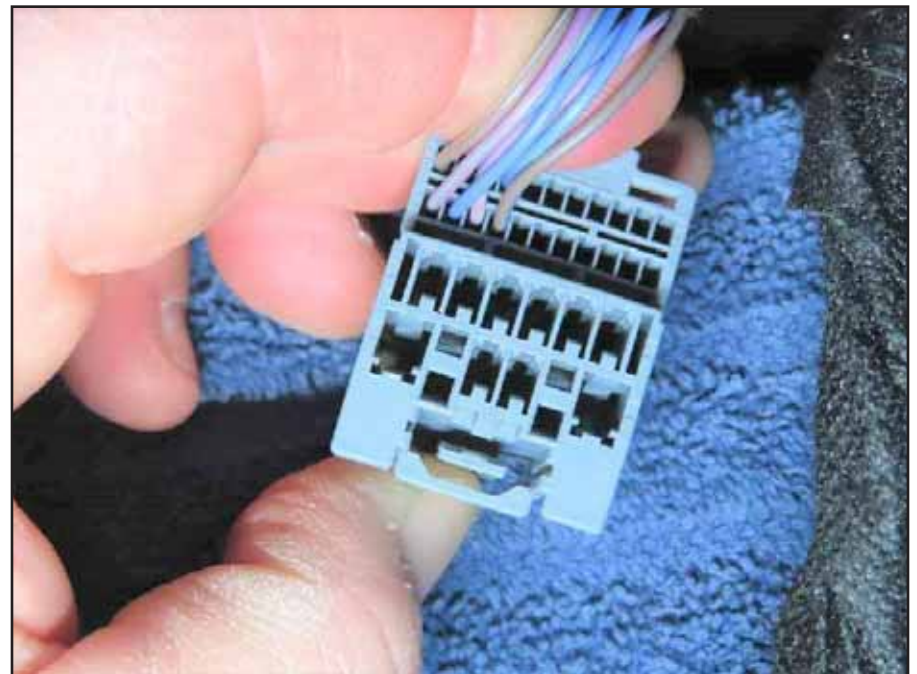
8. Access receiver harnesses along bottom edge of receiver chassis.



Harness #1

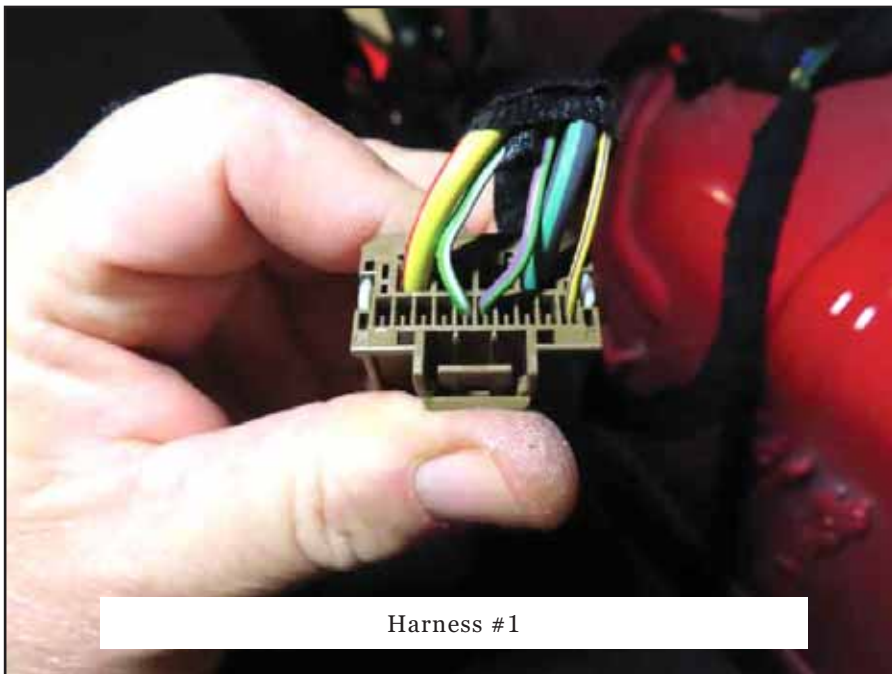


Harness #2

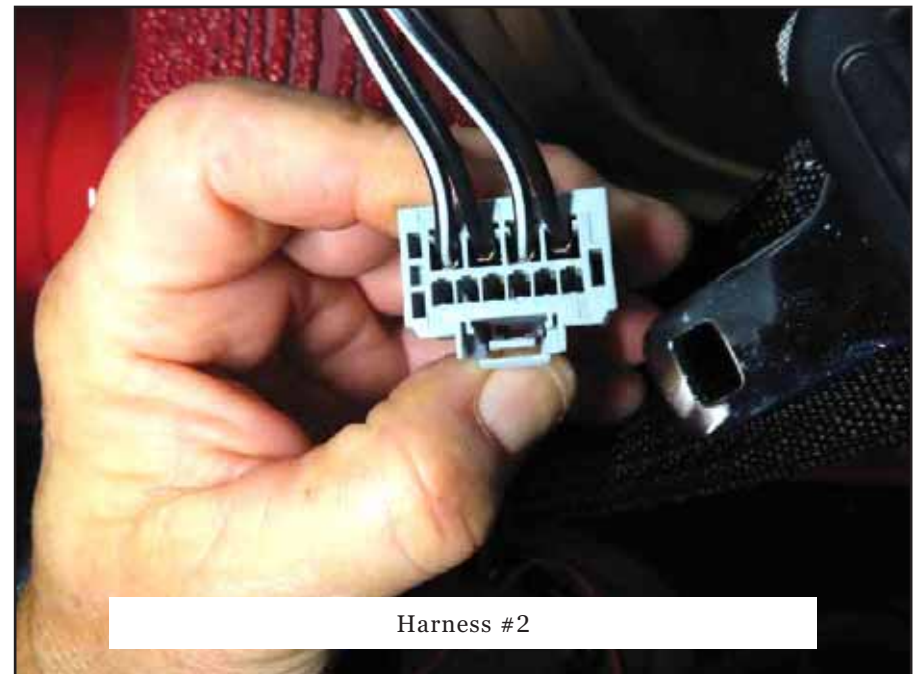


## Subwoofer amplifier

- The subwoofer amplifier is located behind the passenger's side rear side panel.
- Follow steps 1-5 under “Rear Side Panel Subwoofer” removal instructions on page 33 to access the amplifier.
- Amplifier access is shown for OEM integration purposes only.
- Amplifier wiring can be found on the next page.



Harness #1



Harness #2

# Amplifier wiring

NOTE: If our wiring pin numbers don't match the actual pin numbers on your factory plug, refer to the wire colors and locations below.

**Harness 1 of 2**

PIN #	FUNCTION/POLARITY	COLOR
1		
2		
3		
4		
5	Subwoofer input (-)	light green/white
6	Subwoofer input (+)	violet/light green
7		
8		
9		
10	Amplifier remote	yellow/violet
11	Constant 12 volt power	yellow/red
12		
13		
14	Chassis ground	black/light green

**Harness 2 of 2**

PIN #	FUNCTION/POLARITY	COLOR
1		
2		
3		
4		
5		
6		
7	Subwoofer voice coil #1 (-)	black/white
8	Subwoofer voice coil #1 (+)	black
9	Subwoofer voice coil #2 (-)	black/white
10	Subwoofer voice coil #2 (+)	black



# Corner dash speakers

## REMOVAL INSTRUCTIONS

Tools Required: Panel tool, pliers, 7mm socket, ratchet and extension

1. Pry up corner dash grille to release five (5) clips, then remove grille.
2. Remove two (2) 7mm screws securing speaker to dash, disconnect harness and remove speaker.

Difficulty Rating: 2 (break off two mounting tabs on new speaker and two locator pins on dash)

### Important information about your vehicle

- Use the factory speaker grilles.
- You'll need to remove the locating pins from the factory location to install a new speaker. This will not affect reinstallation of the factory speaker.
- You'll need to remove two or more mounting tabs from each of your new speakers before installing.
- The corner dash speakers are wired in parallel with the corresponding kick panel woofers.







2. Remove two (2) 7mm screws securing speaker to dash, disconnect harness and remove speaker.





# Kick panel woofers

## REMOVAL INSTRUCTIONS

Tools Required: Panel tool, 7mm and 10mm sockets, ratchet and extension

1. Pry up front door kick panel to release seven (7) clips and remove kick panel.
2. **Driver's side only:** Pry off screw cover on footrest to release six (6) clips and remove, then remove two (2) exposed 10mm nuts.
3. Starting at bottom edge of dash side panel, pry panel up to release one (1) clip enough to clear kick panel.
4. Pry out kick panel/footrest panel to release one (1) clip, then remove panel.
5. Remove three (3) 7mm screws securing woofer to kick panel steel, disconnect harness and remove woofer.

Difficulty Rating: 1

### Important information about your vehicle

- Use the factory speaker grilles.
- You'll need speaker mounting brackets to install new speakers.
- To install 6-3/4" speakers, you'll need to remove the inner tabs on the aftermarket speaker bracket.
- The kick panel woofers are wired in parallel with the corresponding corner dash speakers.







2. **Driver's side only:** Pry off screw cover on footrest to release six (6) clips and remove, then remove two (2) exposed 10mm nuts.





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3. Starting at bottom edge of dash side panel, pry panel up to release one (1) clip enough to clear kick panel.



4. Pry out kick panel/footrest panel to release one (1) clip, then remove panel.



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5. Remove three (3) 7mm screws securing woofer to kick panel steel, disconnect harness and remove woofer.





# Soundbar speakers

## REMOVAL INSTRUCTIONS

Tools Required: Panel tool, Phillips screwdriver, pliers

1. Pry off soundbar grille to release four (4) clips, then remove grille.
2. Remove two (2) Phillips screws securing speaker to enclosure, disconnect harness and remove speaker.

Difficulty Rating: 2 (break off two mounting tabs on new speaker)

### Important information about your vehicle

- Use the factory speaker grilles.
- You'll need to remove two or more mounting tabs from each of your new speakers before installing.









# Rear side panel subwoofer

## REMOVAL INSTRUCTIONS

Tools Required: Panel tool, 10mm socket, ratchet and extension, Torx T20 driver, drill with 1/8" bit

1. Pry up both lower/rear cargo loop covers to remove, then remove two (2) 10mm screws at each location and remove both cargo loops.
2. Pry up back door scuff panel to release seven (7) clips, then remove scuff panel.
3. Pry up passenger's door scuff panel to release nine (9) clips, then remove scuff panel.
4. Pry off top and sides of rear side panel to release eleven (11) clips, then disconnect harnesses.
5. Work front seat belt lower anchor through slot in rear side panel, then lift panel to remove.
6. Remove four (4) Torx T20 screws securing subwoofer ring to enclosure, then remove subwoofer ring.
7. Pull out subwoofer, disconnect and remove.

Difficulty Rating: 3 (must re-drill screw holes)

### Important information about your vehicle

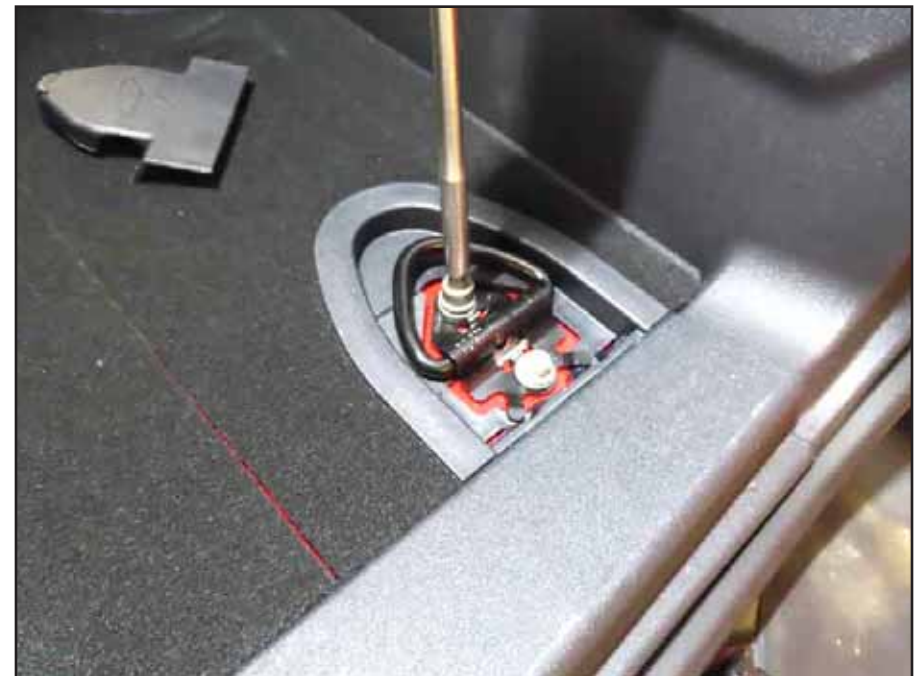
- Use the factory speaker grilles.
- You'll re-use the factory enclosure when you install your new subwoofer. Depending on which subwoofer you choose, you may have to drill new screw holes or fabricate a speaker bracket.
- A wiring harness is not needed.
- Replacing the low-impedance factory speaker with a 4-ohm aftermarket speaker will result in lower volume levels.
- The factory system sends only bass frequencies to the dual voice coil subwoofer in this location, so a replacement aftermarket speaker will also only play bass.

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





1. Pry up both lower/rear cargo loop covers to remove, then remove two (2) 10mm screws at each location and remove both cargo loops.





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2. Pry up back door scuff panel to release seven (7) clips, then remove scuff panel.



3. Pry up passenger's door scuff panel to release nine (9) clips, then remove scuff panel.



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4. Pry off top and sides of rear side panel to release eleven (11) clips, then disconnect harnesses.



5. Work front seat belt lower anchor through slot in rear side panel, then lift panel to remove.





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6. Remove four (4) Torx T20 screws securing subwoofer ring to enclosure, then remove subwoofer ring.





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