



HONDA INSTALLATION INSTRUCTIONS

Accessory
PARKING SENSORS

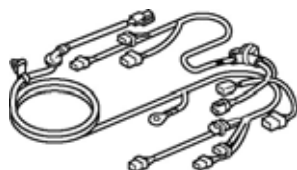
Application
2020 HR-V

Publications No.
VERSION 1
Issue Date
SEP 2019

PARTS LIST

Parking Sensors Attachment Kit
P/N 08V67-T7A-100E
P/N 08V67-T7A-100F

*: The part differs depending on the kits.
Parking sensor harness



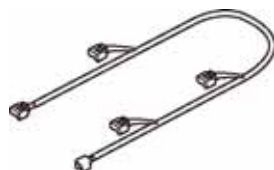
Subharness



Front bumper harness



Rear bumper harness



Control unit



Control unit bracket



Switch



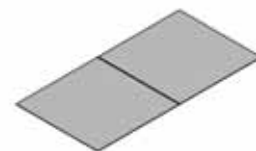
34 Wire ties A
(Some may not be used)



6 Wire ties B
(narrow)



9 Aluminum tapes



2 Retainers A
(Identification mark: 0DEG: 1.2)



*4 Retainers B
(Identification mark: 0DEG: 0.4)
(P/N 08V67-T7A-100E)



*4 Retainers C
(Identification mark: 0DEG: 0.8)
(P/N 08V67-T7A-100F)



6 Rubber spacers



3 Primers



2 Alcohol wipes



Fuse label



Washer nut



Connector holder



Wire ties with clip



Ground bolt



Accessory user's information manual



Sensors Kit
P/N 08V67-TVA-100K
P/N 08V67-T7A-100J
P/N 08V67-T7A-100K

NOTE: Refer to the Parts Information Bulletin (PIB) for the proper color sensors.

6 Sensors



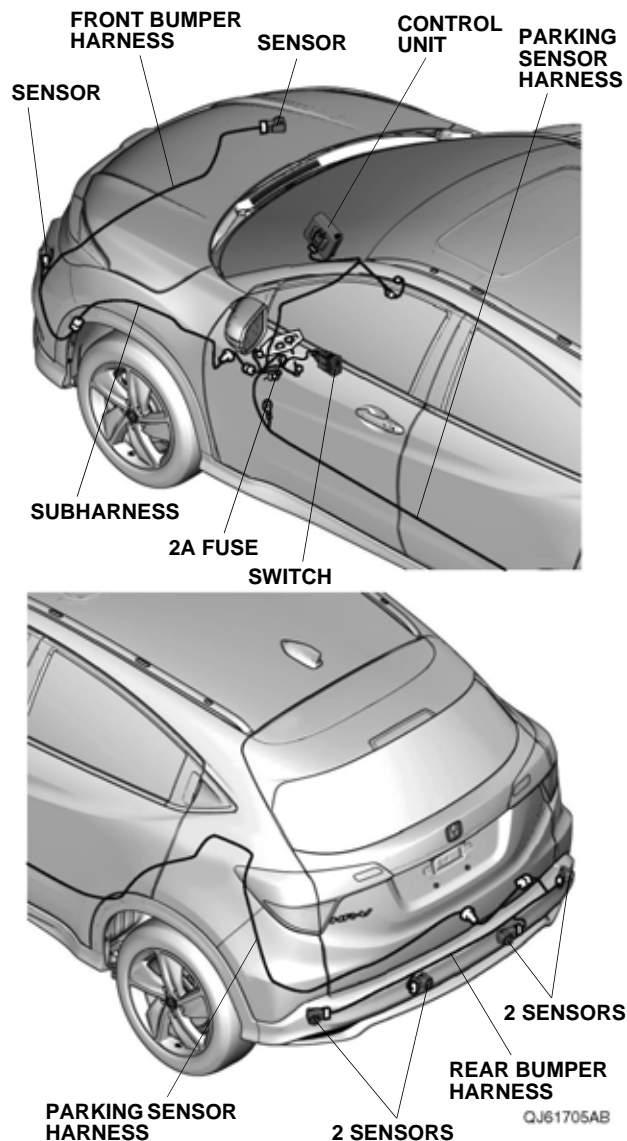
TOOLS AND SUPPLIES REQUIRED

Phillips screwdriver
10 mm, 12 mm, and 13 mm Open end wrenches
10 mm Socket
Pushpin
Ratchet
3 mm, 6 mm, and 8.5 mm Drill bits
Eye protection (face shield, safety goggles, etc.)
File
Masking tape
5 mm Hex wrench
Blanket
Isopropyl alcohol
Shop towel
Felt-tip pen
Drill
Diagonal cutters
Utility knife
Scissors
Steel wire

The following tools are available through the Honda Tool and Equipment Program. On the iN, click on Service > Service Bay > Tool and Equipment Program, then enter the number under "Search." Or, call 888-424-6857.

- Trim Tool Set (T/N SOJATP2014)
- Plastic Trim Tool (T/N SILTRIMTL10)
- 16 mm Punch Tool (T/N 07AAH-TZ5A100)

Illustration of the Parking Sensors on the Vehicle

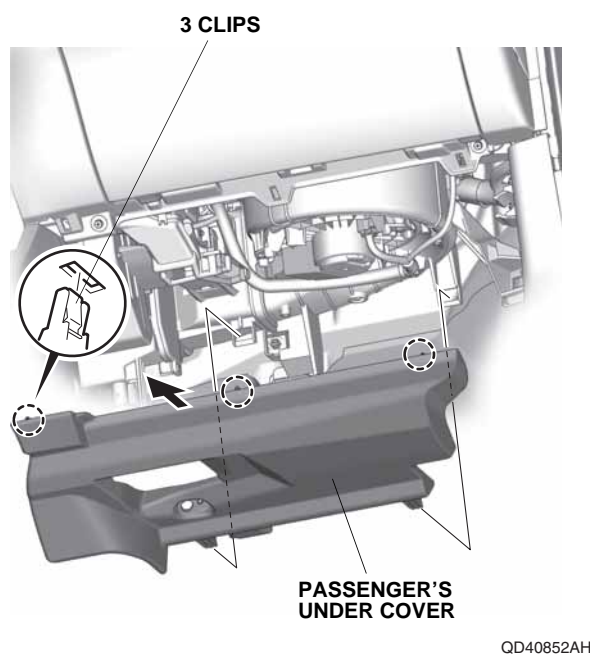


INSTALLATION

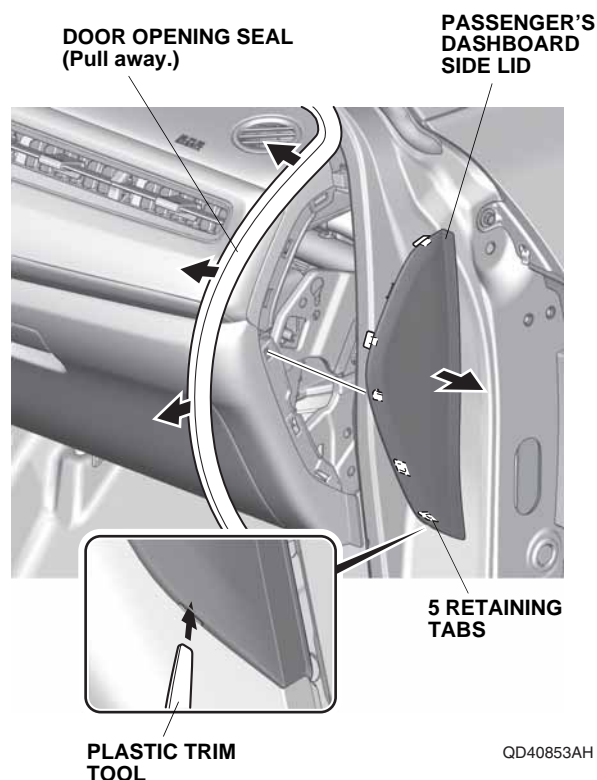
Customer Information: The information in this installation instruction is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely add equipment to your vehicle. These procedures should not be attempted by “do-it-yourselfers.”

NOTE: When turning on the engine switch (power switch) during installation, warning lamp may be displayed in meter panel. If you finish installation and carry out the initial settings, the lamp will be turned off.

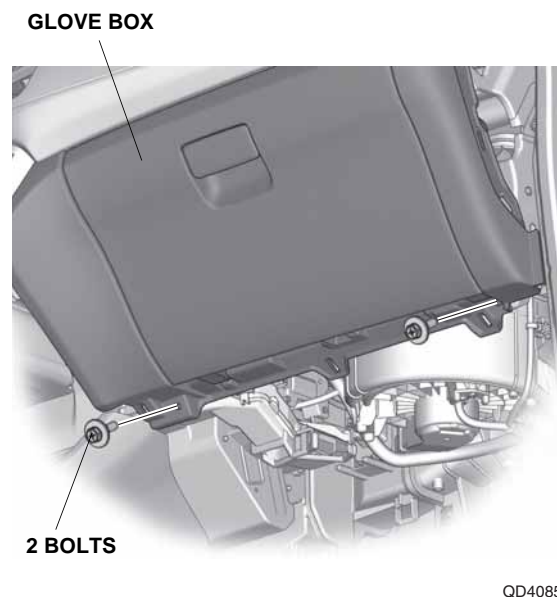
1. Disconnect the negative cable from the battery.
2. Remove the passenger's under cover.



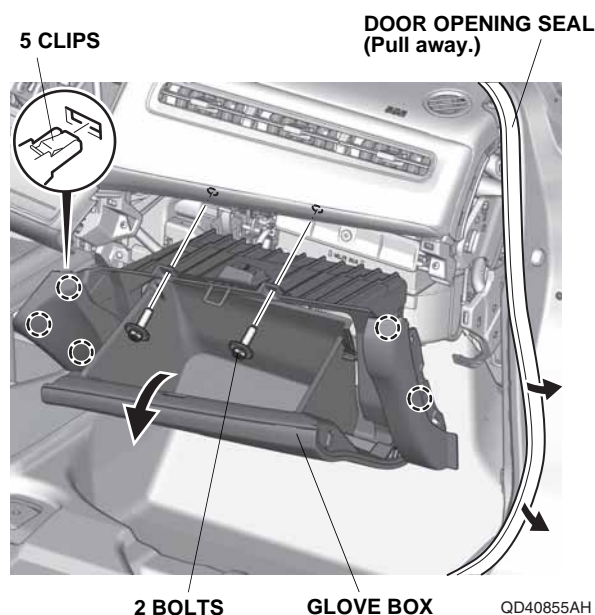
3. Pull away the door opening seal, and remove the passenger's dashboard side lid.



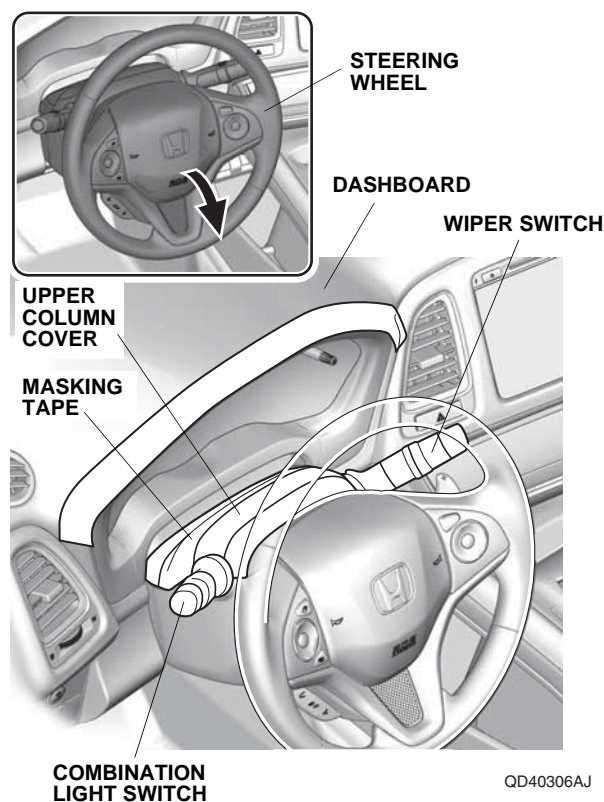
4. Remove the two bolts.



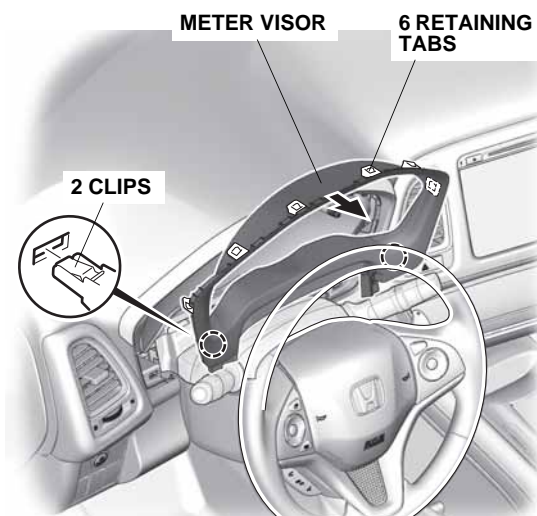
5. Pull away the door opening seal. Open the glove box, and remove the glove box.



6. Lower the steering wheel. Apply masking tape to the upper column cover, dashboard, combination light switch, and wiper switch as shown.



7. Remove the meter visor.



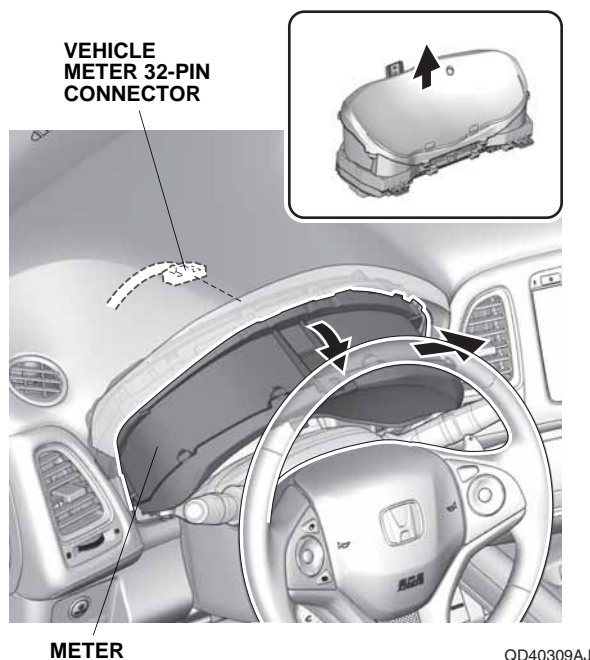
QD40307AJ

8. Remove the select/reset knob, and pull out the meter.

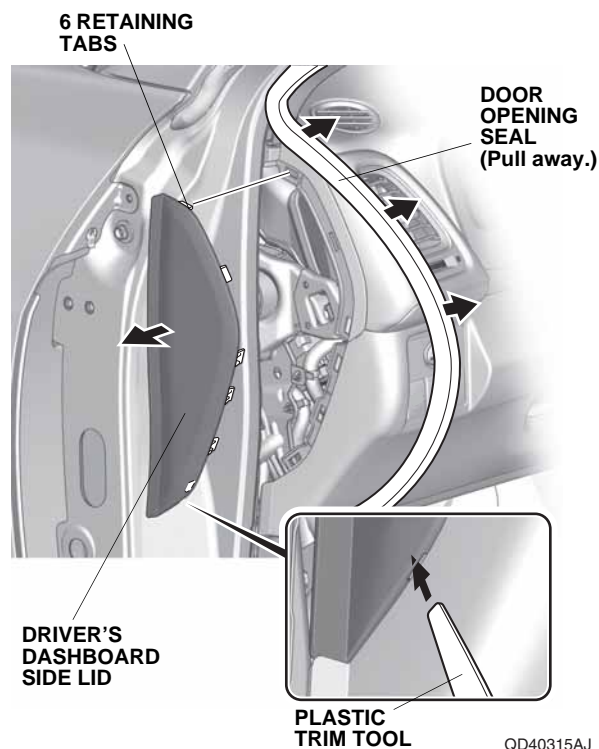


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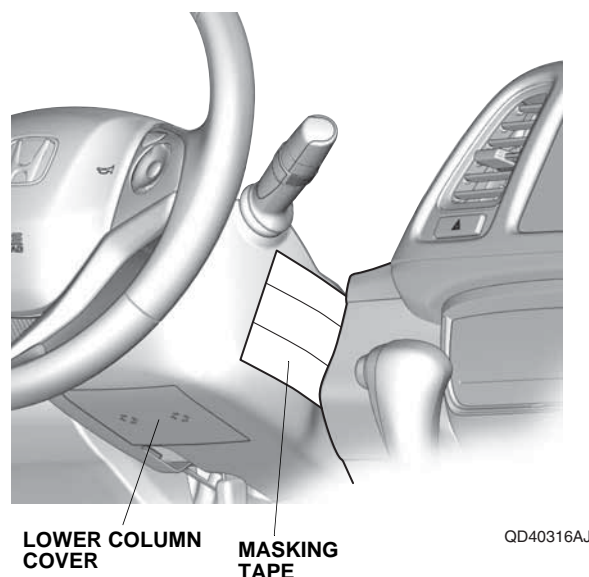
9. Remove the meter, and unplug the vehicle meter 32-pin connector.
NOTE: Place the meter on a shop towel facing up.



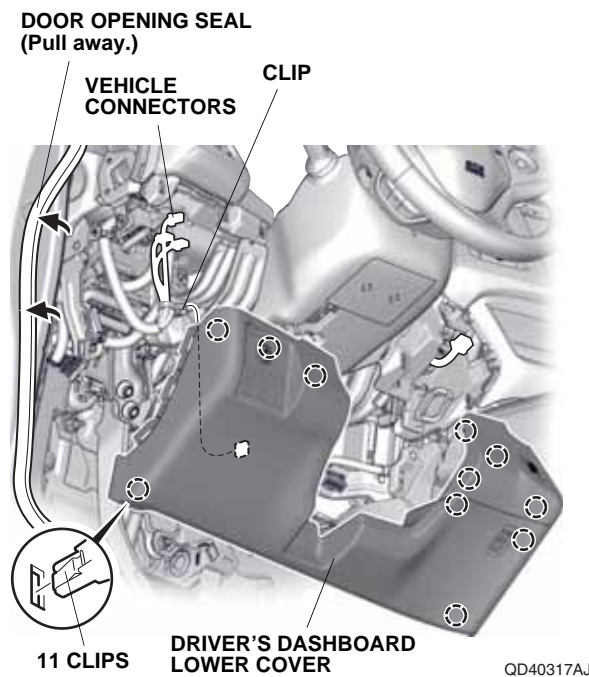
10. Pull away the door opening seal, and remove the driver's dashboard side lid.



11. Apply masking tape to the lower column cover.



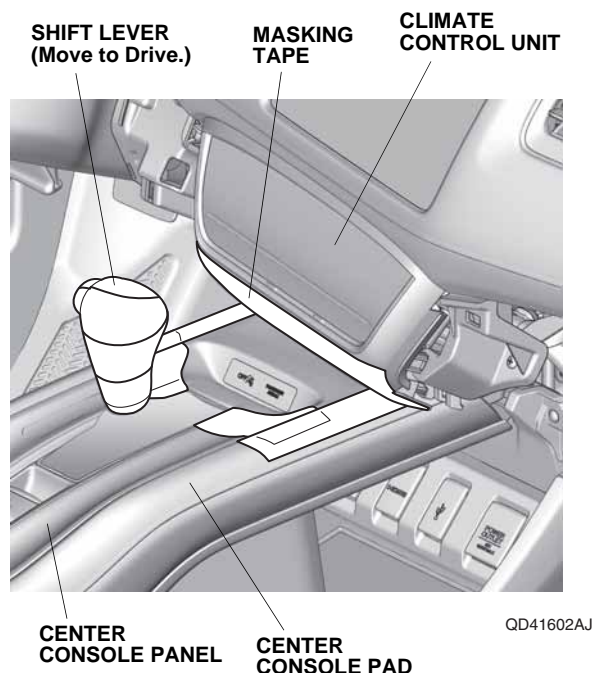
12. Pull away the door opening seal. Remove the driver's dashboard lower cover, and unplug the vehicle connectors.



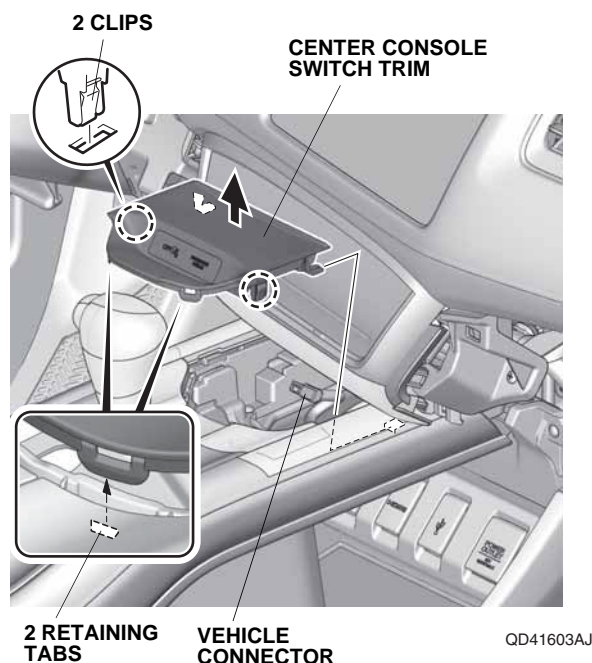
If the vehicle is equipped with automatic climate control, continue with step 13; otherwise go to step 16.

With automatic climate control

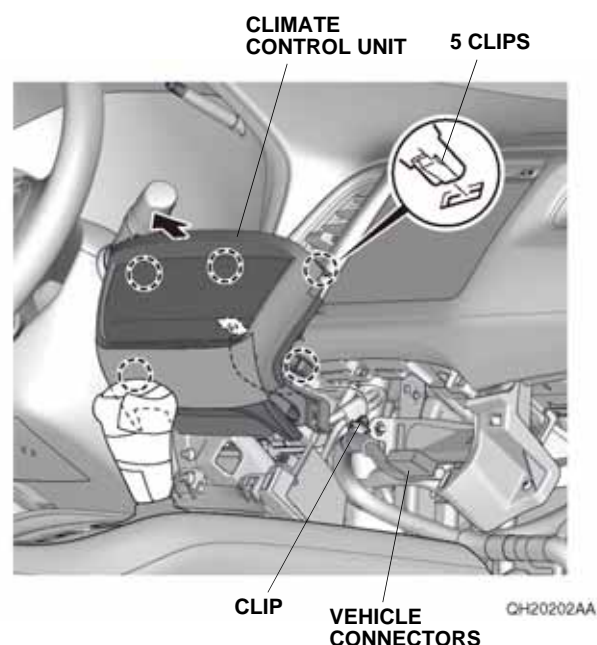
13. Apply masking tape to the climate control unit, center console panel, center console pad, and shift lever as shown. Move the shift lever to Drive.



14. Remove the center console switch trim, and unplug the vehicle connector.

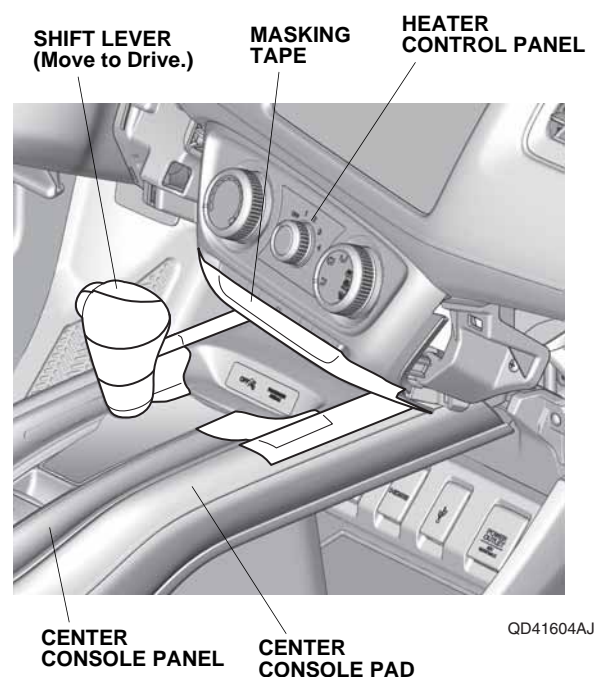


15. Remove the climate control unit, and unplug the vehicle connectors. Go to step 21.

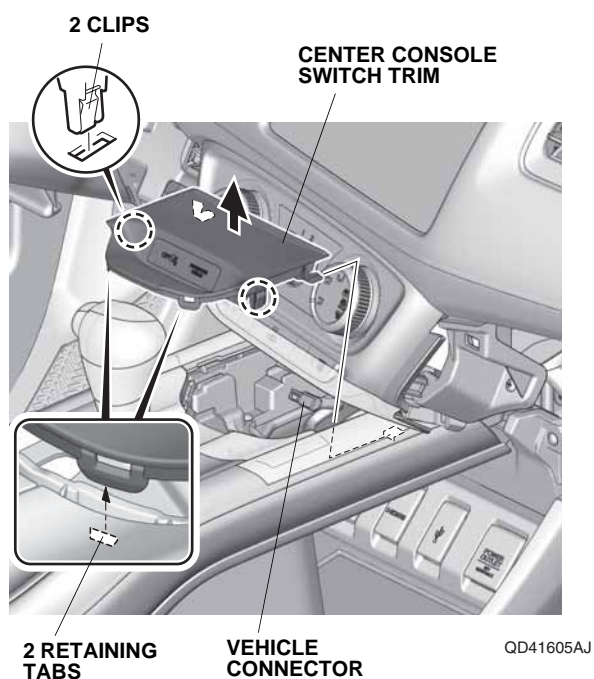


With manual climate control

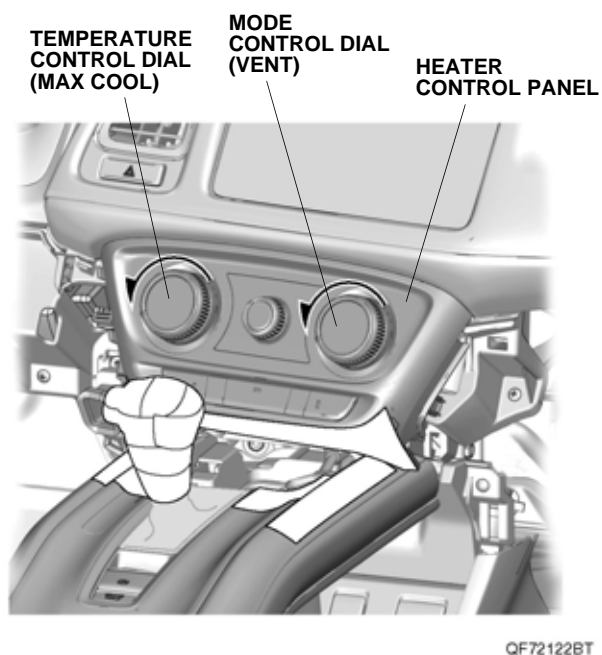
16. Apply masking tape to the heater control panel, center console panel, center console pad, and shift lever as shown. Move the shift lever to Drive.



17. Remove the center console switch trim, and unplug the vehicle connector.

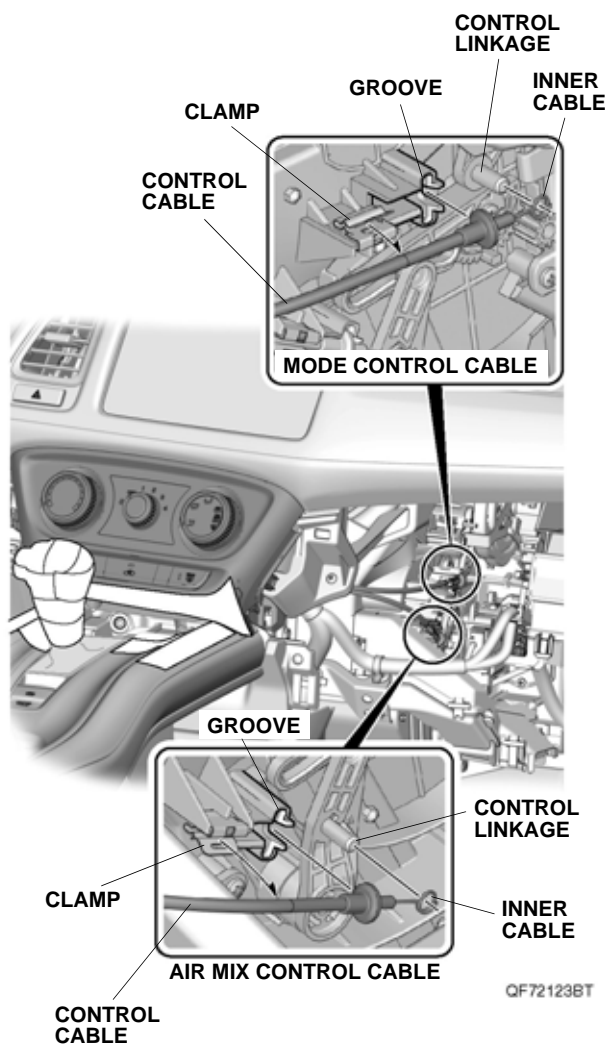


18. Set the mode control dial and the temperature control dial as shown.

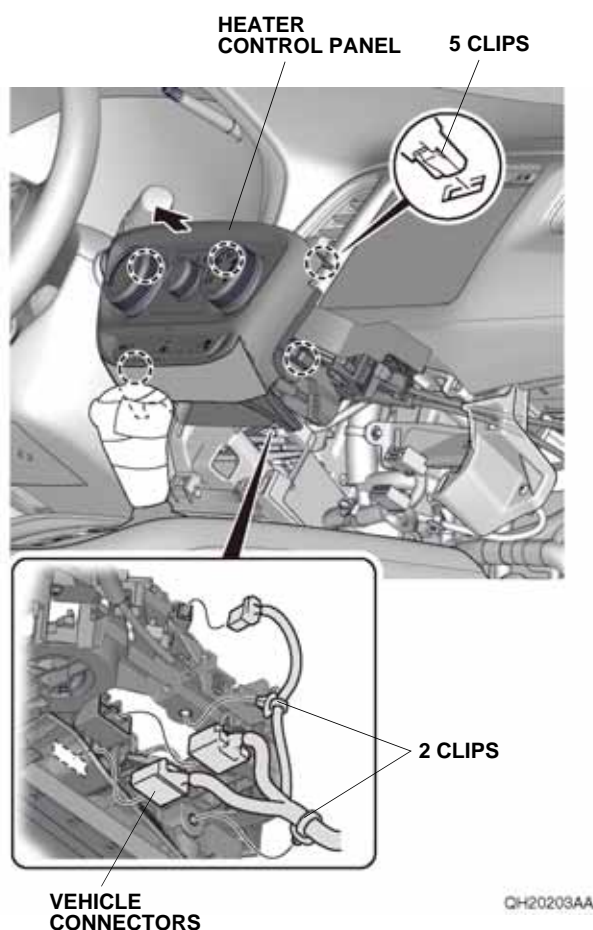


19. Remove the mode control cable and air mix control cable:

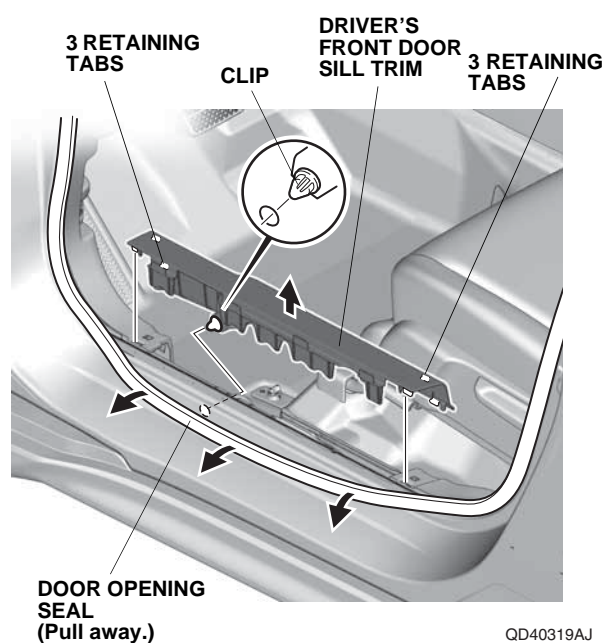
- Remove the control cable from the clamp and the groove.
- Remove the inner cable from the control linkage.



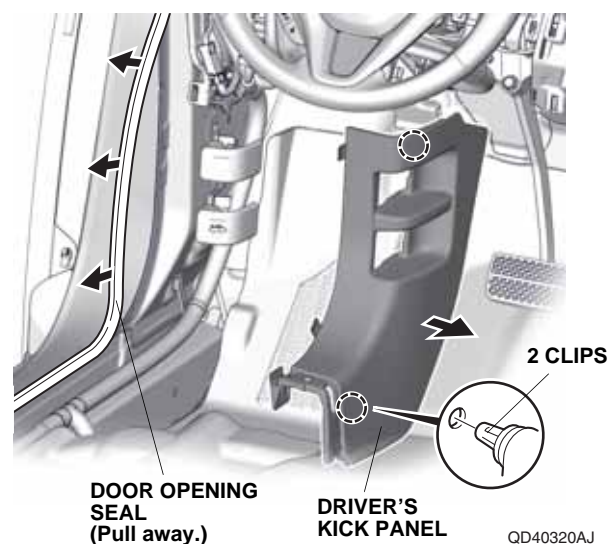
20. Remove the heater control panel, and unplug the vehicle connectors.



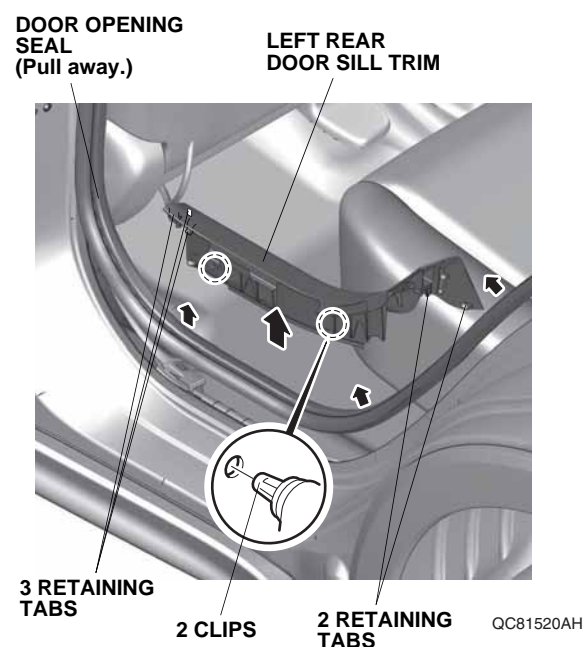
21. Pull away the door opening seal, and remove the driver's front door sill trim.



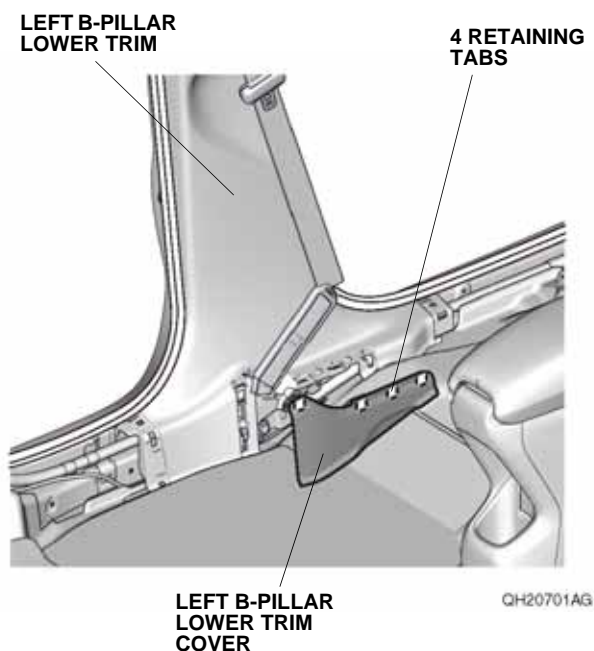
22. Pull away the door opening seal, and remove the driver's kick panel.



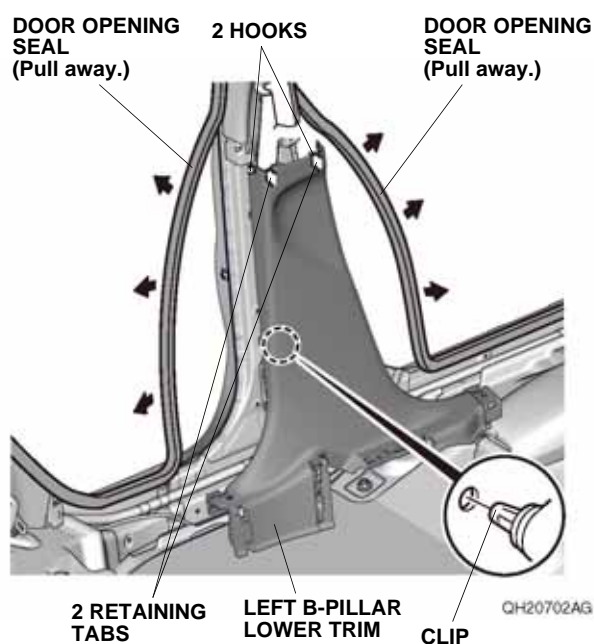
23. Pull away the door opening seal, and remove the left rear door sill trim.



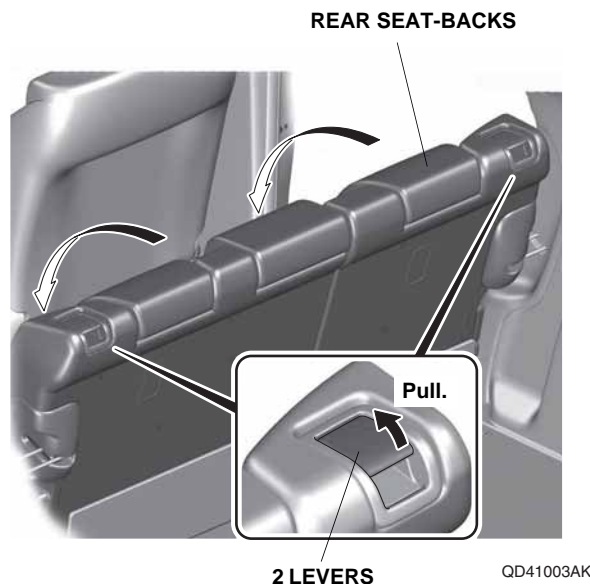
24. Remove the left B-pillar lower trim cover.



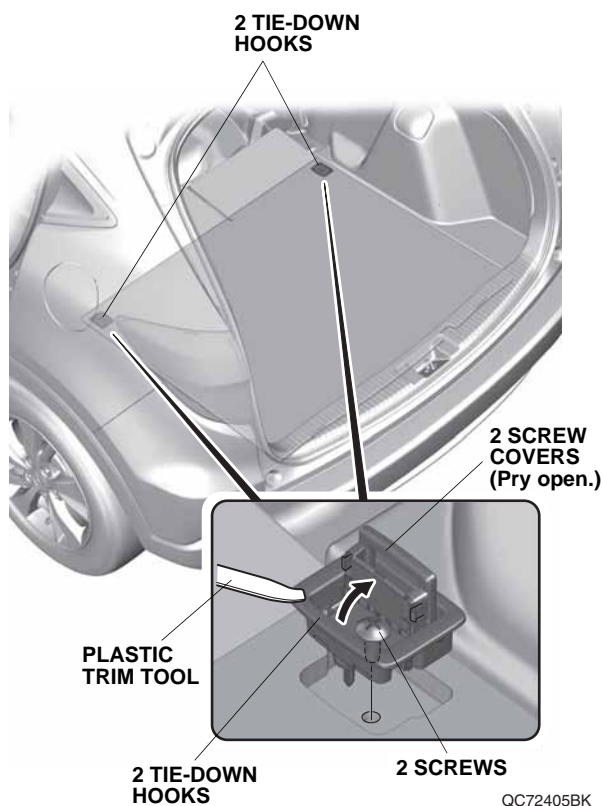
25. Pull away the door opening seal, and remove the left B-pillar lower trim.



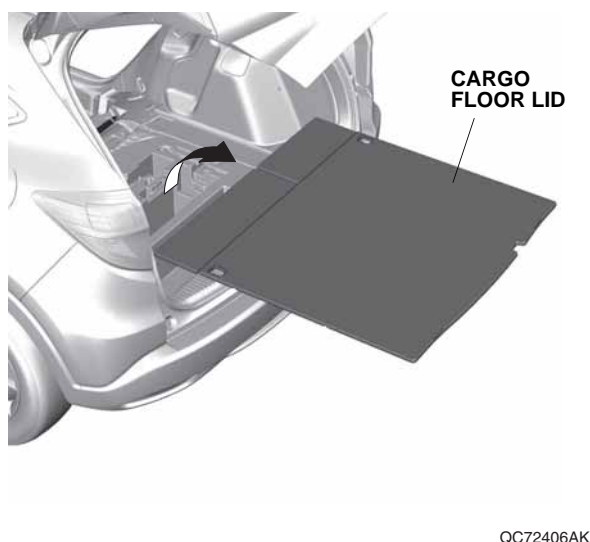
26. Pull the levers and fold each rear seat-back forward.



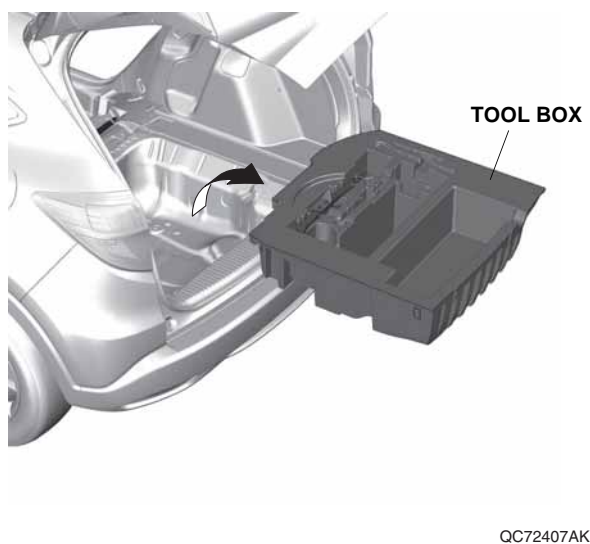
27. Using a plastic trim tool, pry open the two screw covers. Remove the two tie-down hooks.



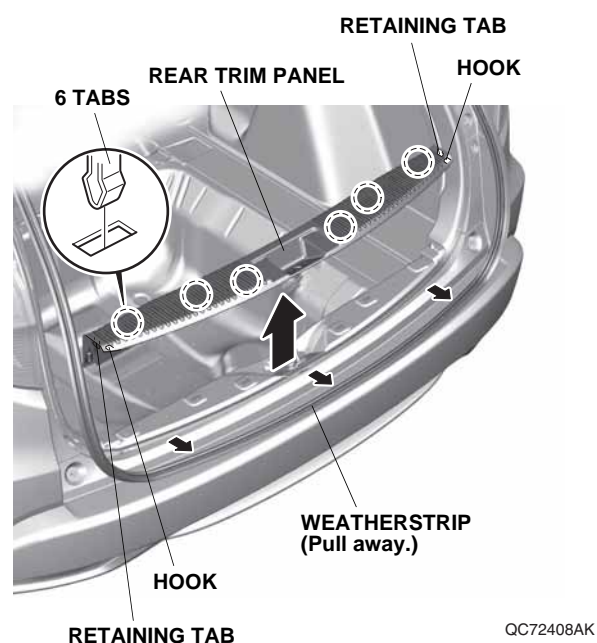
28. Remove the cargo floor lid.



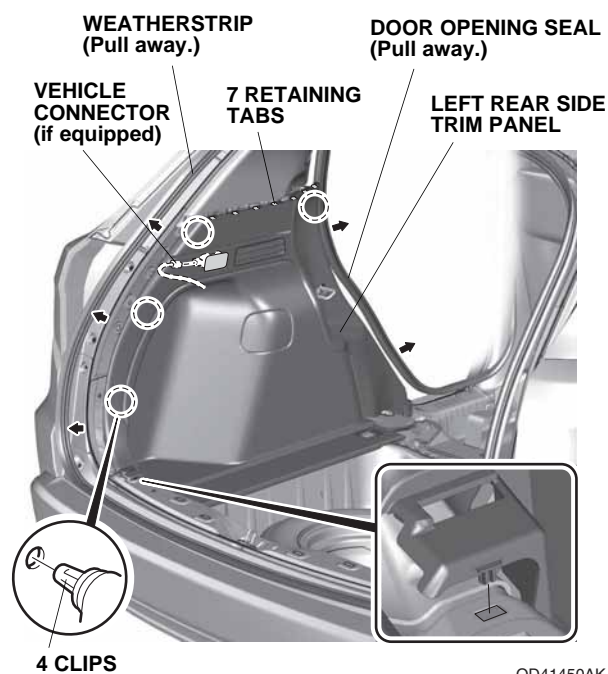
29. Remove the tool box.
NOTE: The same procedure applies to all tool boxes.



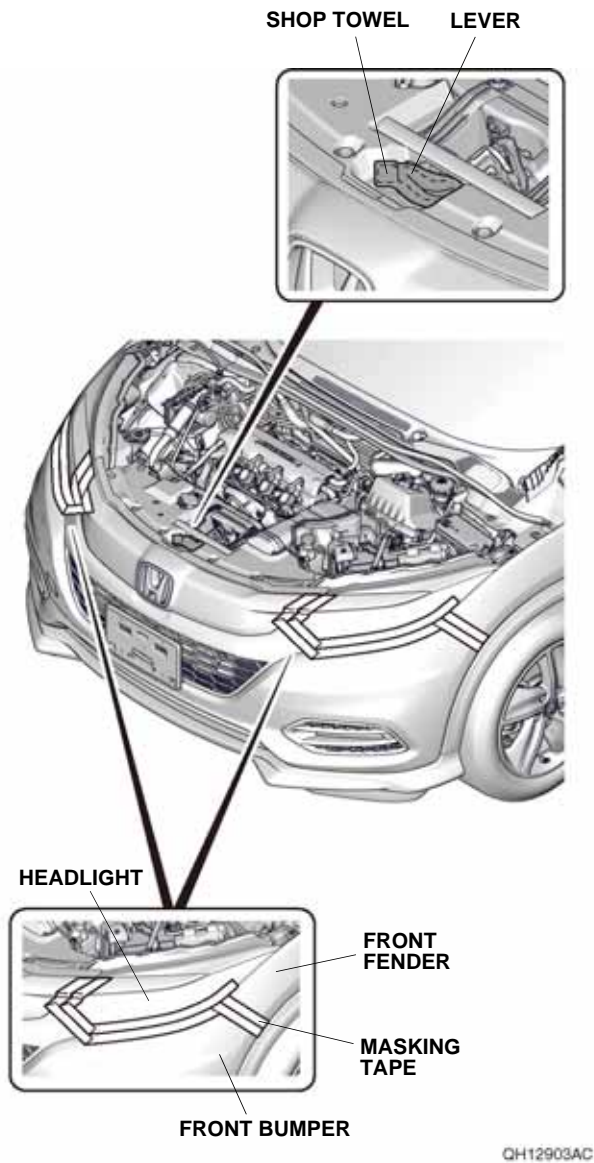
30. Pull away the weatherstrip, and remove the rear trim panel.



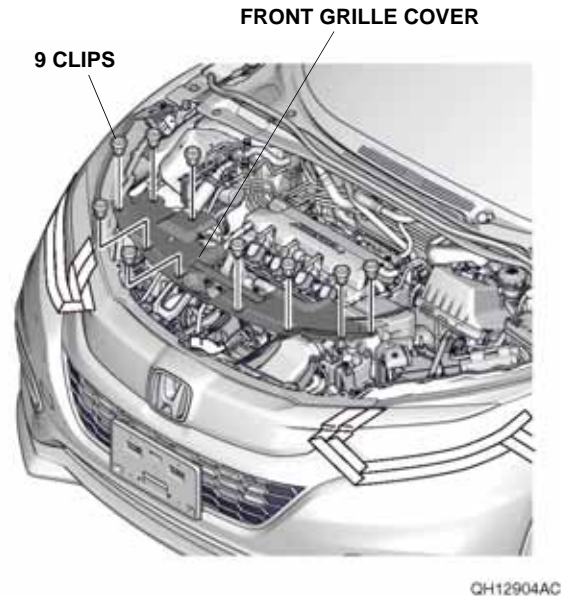
31. Pull away the weatherstrip and door opening seal. Remove the left rear side trim panel, and unplug the vehicle connector (if equipped).



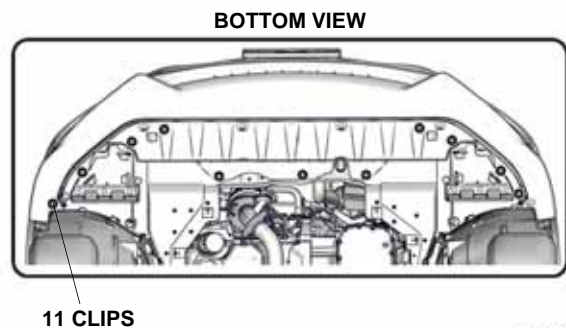
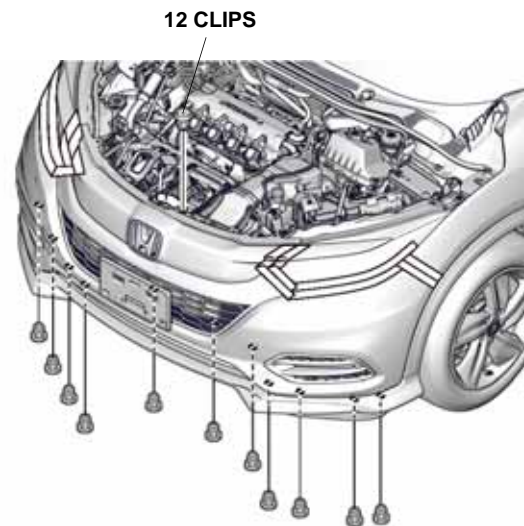
32. Remove the front bumper:
- Wrap a shop towel around the lever.
 - Apply masking tape as shown.



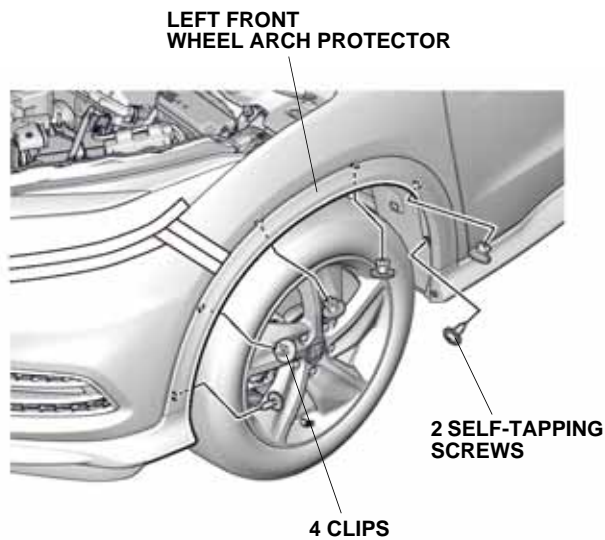
- Remove the front grille cover.



- Remove the 12 clips.

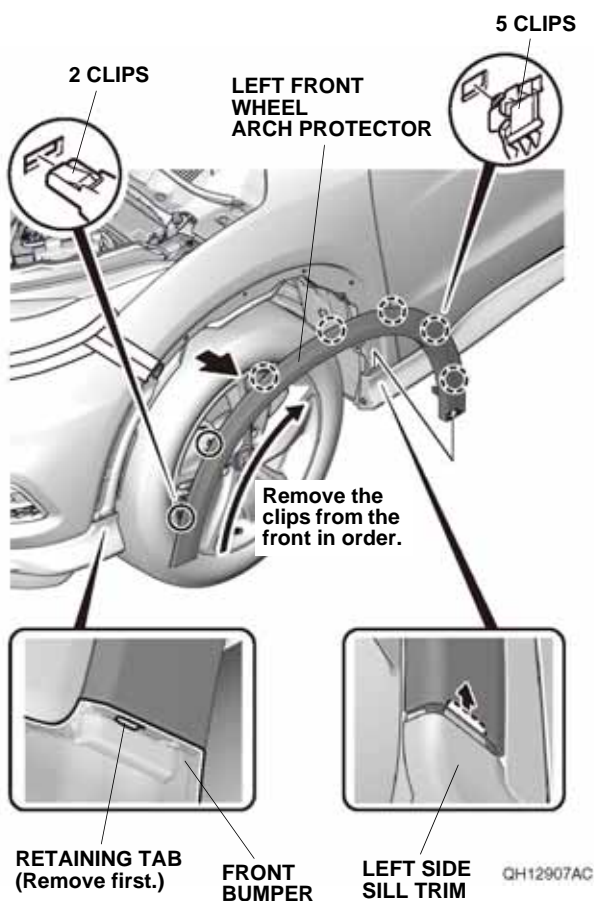


- Remove the two self-tapping screws and four clips on each side.



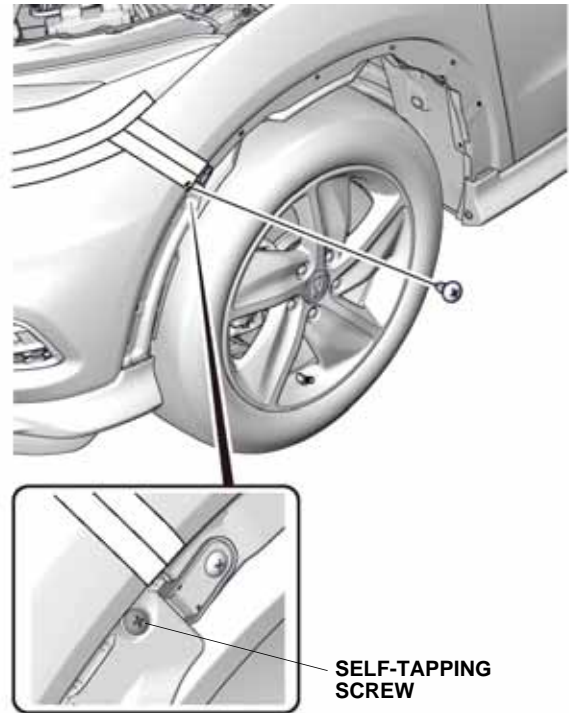
QH12906AC

- Remove the front wheel arch protector on each side.



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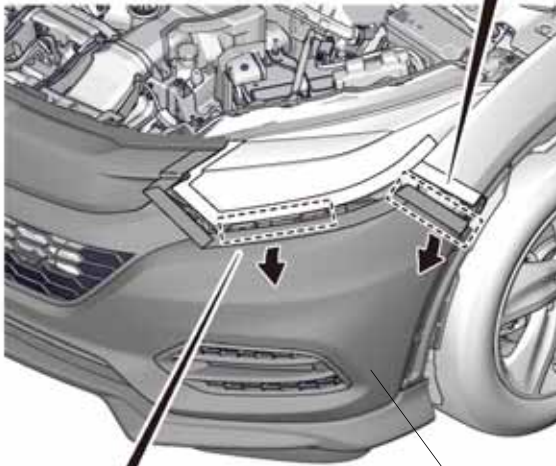
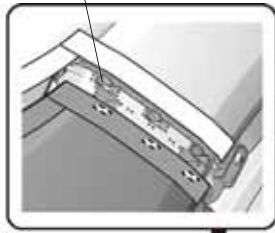
- Remove the self-tapping screw on each side.



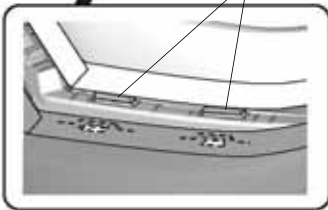
QH12908AC

- Release the five retaining tabs on each side.

1 3 RETAINING TABS



2 2 RETAINING TABS

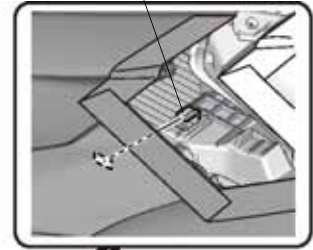


FRONT BUMPER

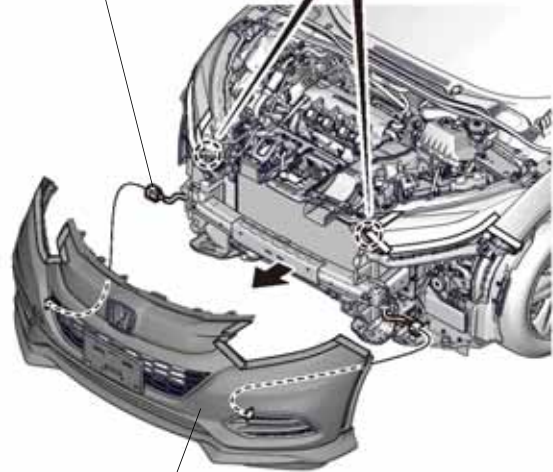
QH12909AC

- With the help of an assistant, remove the front bumper and unplug the vehicle connectors (if equipped).
- Place the front bumper on a blanket.

2 RETAINING TABS



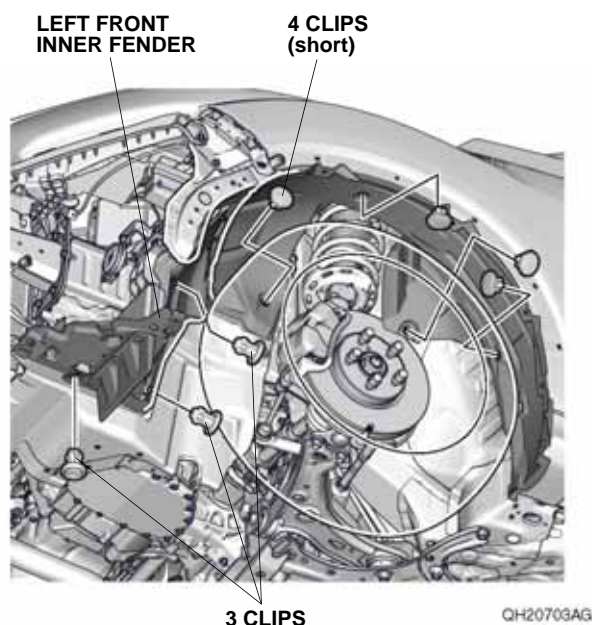
**VEHICLE CONNECTORS
(if equipped)**



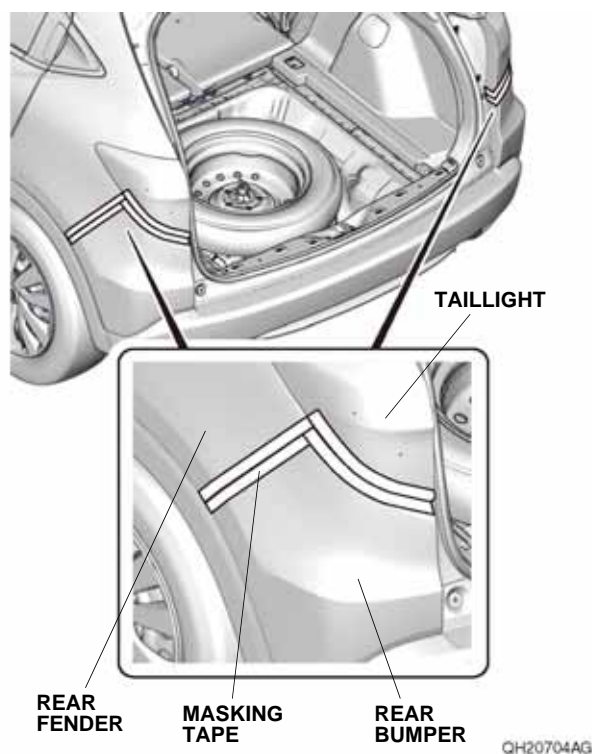
FRONT BUMPER

QH12910AC

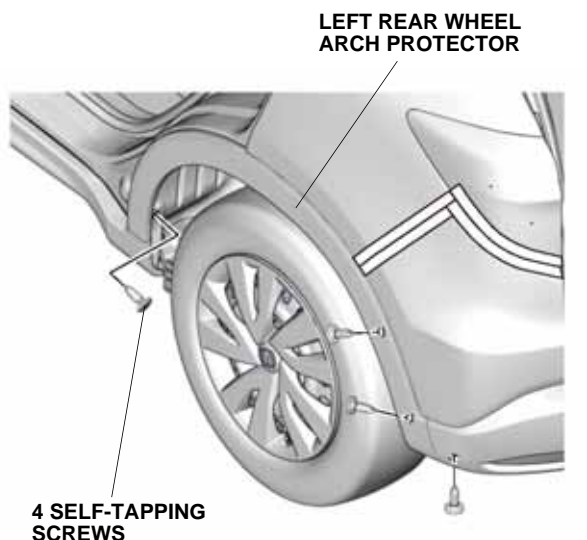
33. Release the left front inner fender.
NOTE: Do not fully remove the left front inner fender.



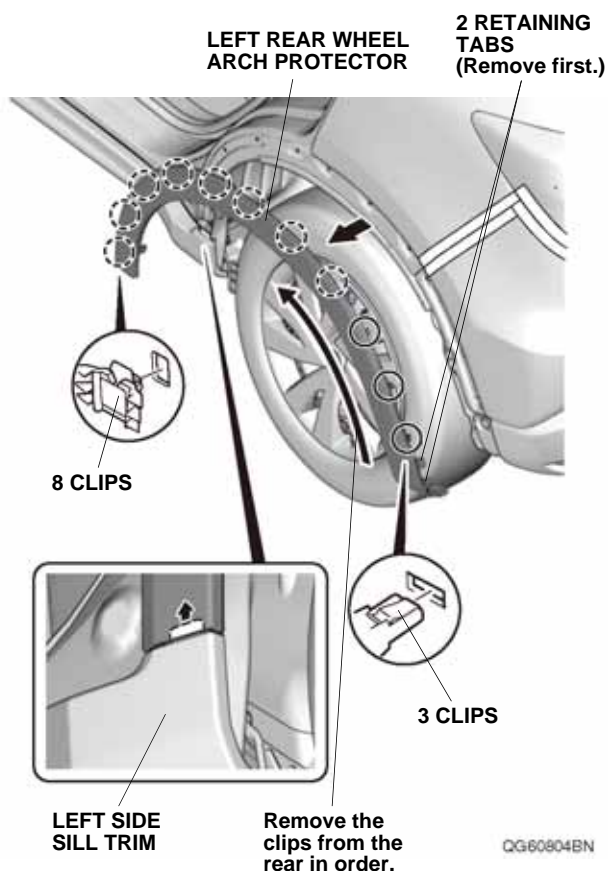
34. Remove the rear bumper:
• Apply masking tape as shown.



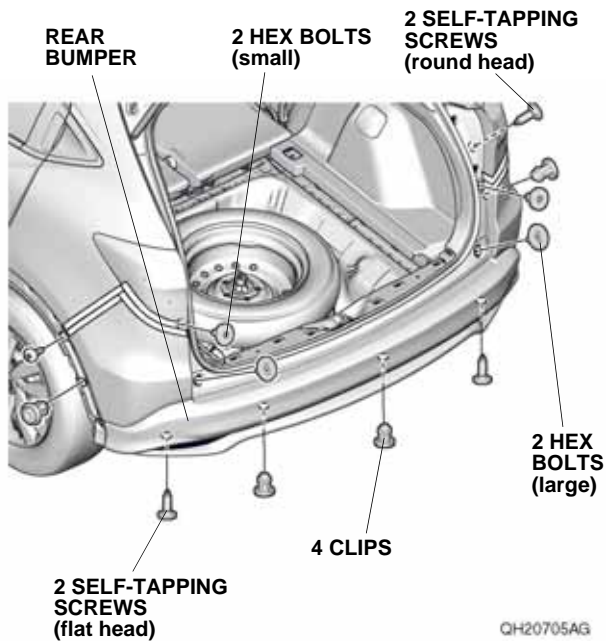
- Remove the four self-tapping screws on each side.



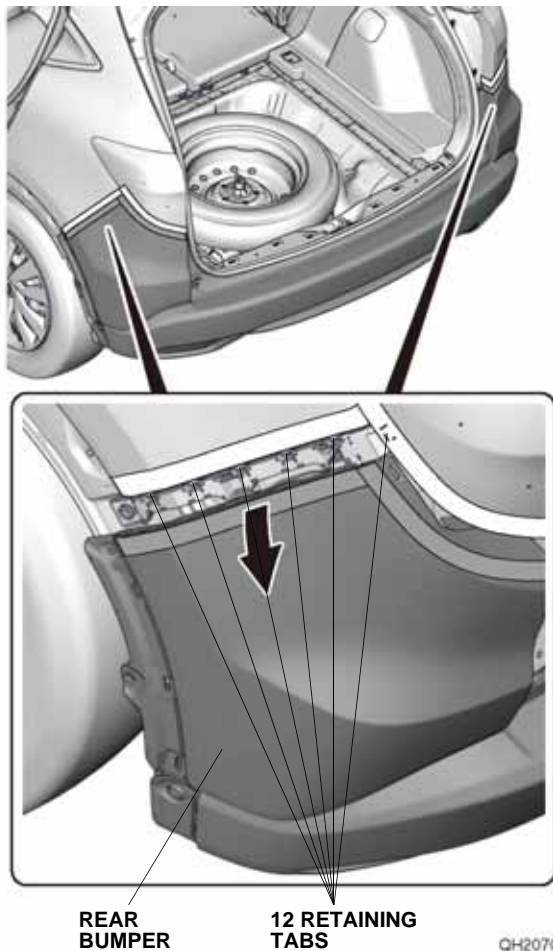
- Remove the rear wheel arch protector on each side.



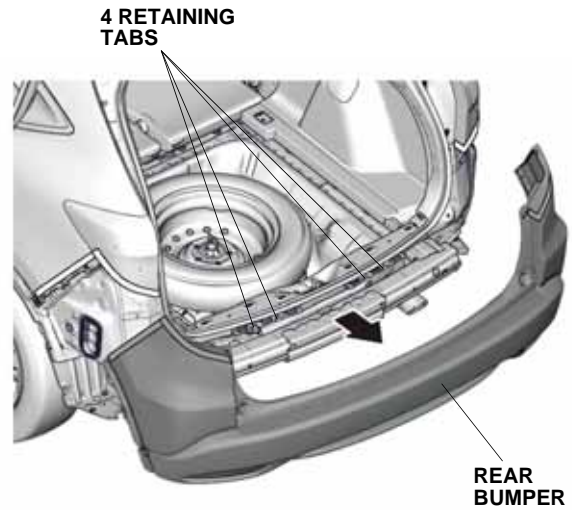
- Remove the four hex bolts, four self-tapping screws, and four clips.



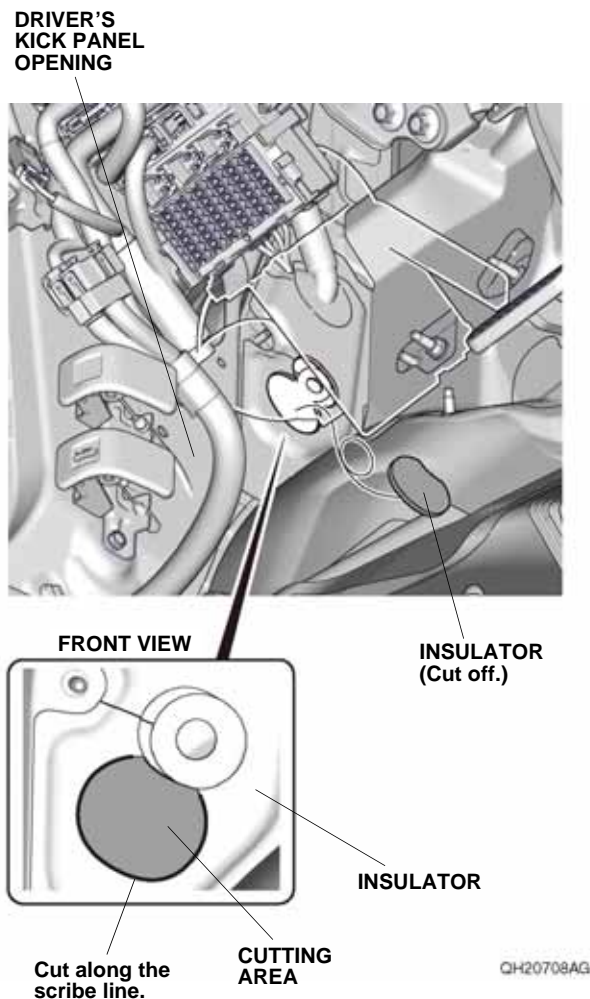
- Release the 12 retaining tabs.



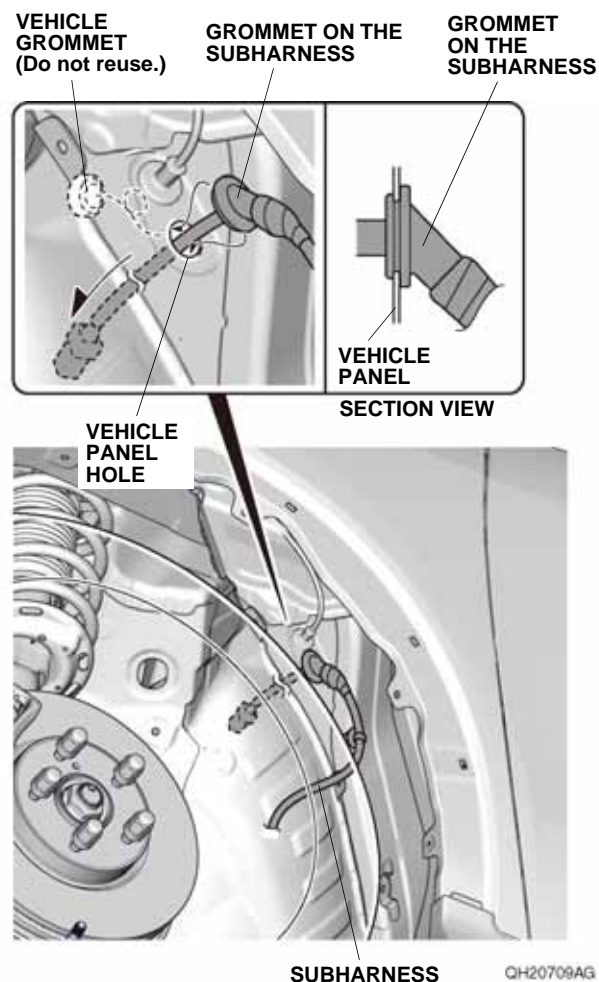
- With the help of an assistant, remove the rear bumper.
- Place the rear bumper on the blanket.



35. Using a utility knife, cut off the insulator as shown.



36. Remove the vehicle grommet. Route the subharness through the vehicle panel hole as shown.

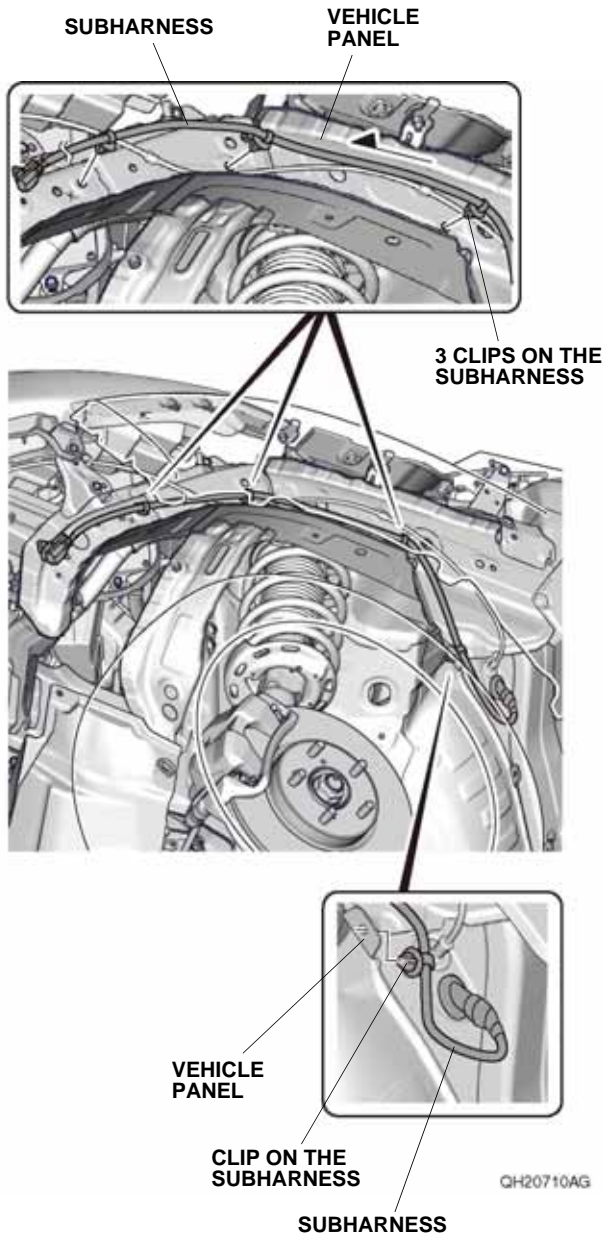


37. Secure the grommet on the subharness to the vehicle panel hole.

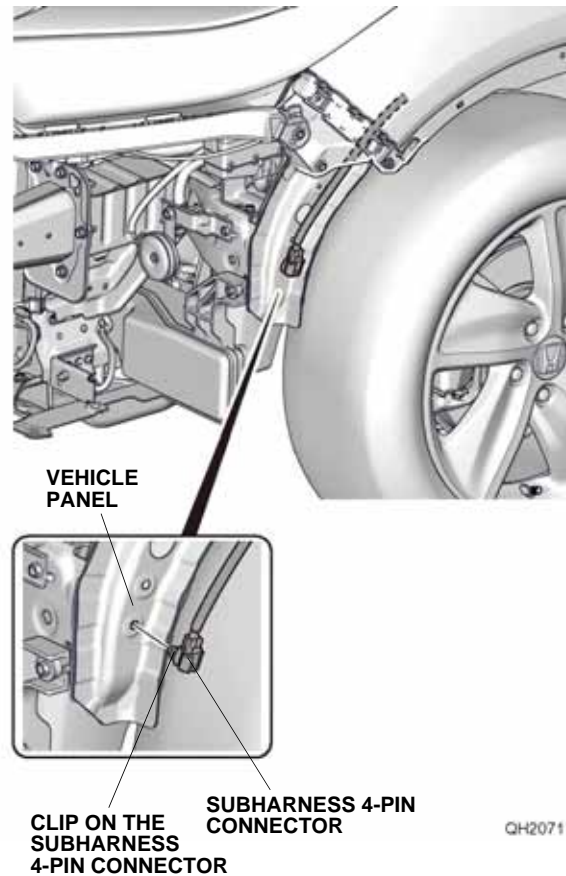
NOTE:

- Install the subharness by holding the grommet.
- Make sure the grommet is seated properly.

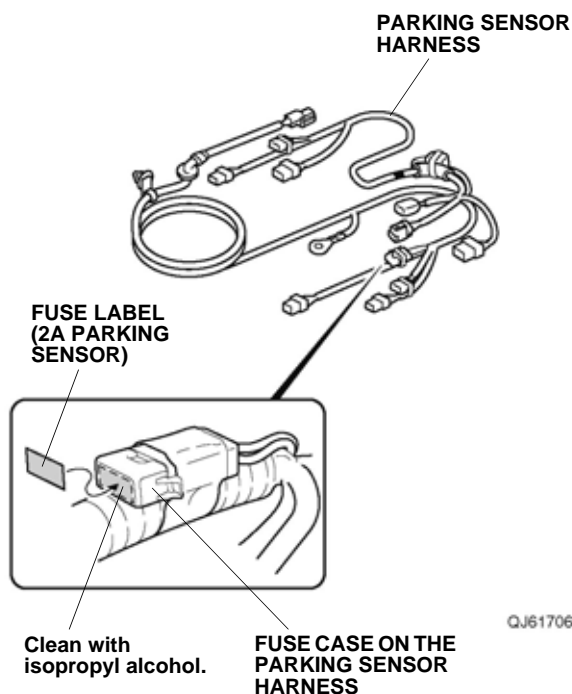
38. Route the subharness, and secure it to the vehicle panel with the four clips on the subharness.



39. Secure the subharness 4-pin connector to the vehicle panel with the clip on the subharness 4-pin connector.



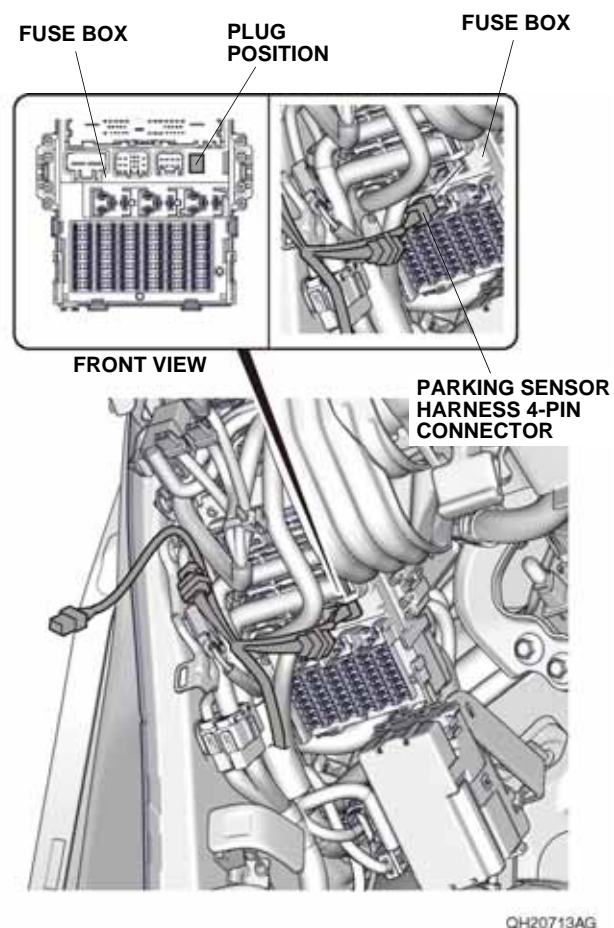
40. Using isopropyl alcohol on a shop towel, thoroughly clean the fuse case where the fuse label will attach. Attach the fuse label (2A PARKING SENSOR) to the fuse case on the parking sensor harness.



If the vehicle is equipped with another accessory harness 4-pin connector, go to step 42; otherwise, continue with step 41.

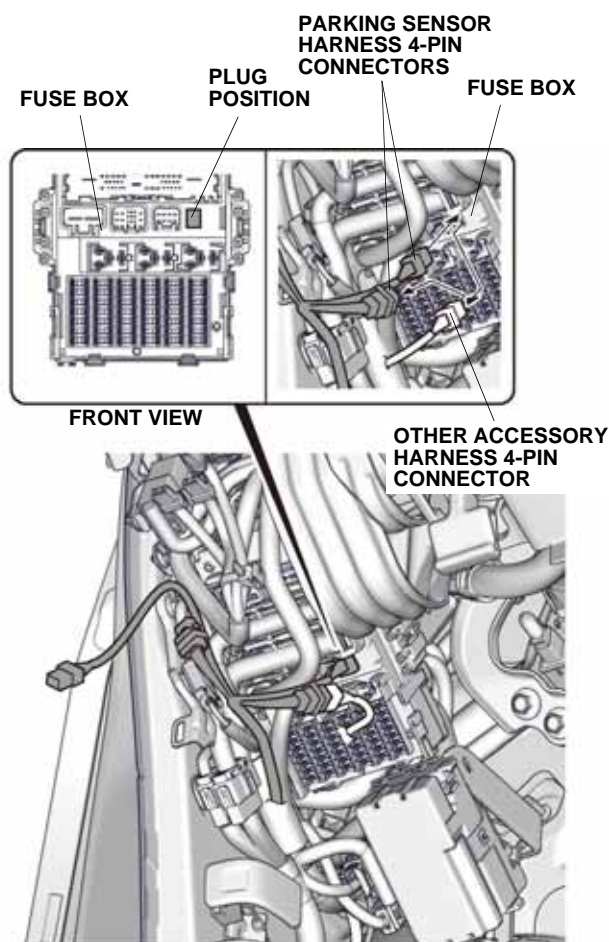
Without another accessory harness 4-pin connector

41. Plug the parking sensor harness 4-pin connector into the fuse box. Go to step 44.



With another accessory harness 4-pin connector

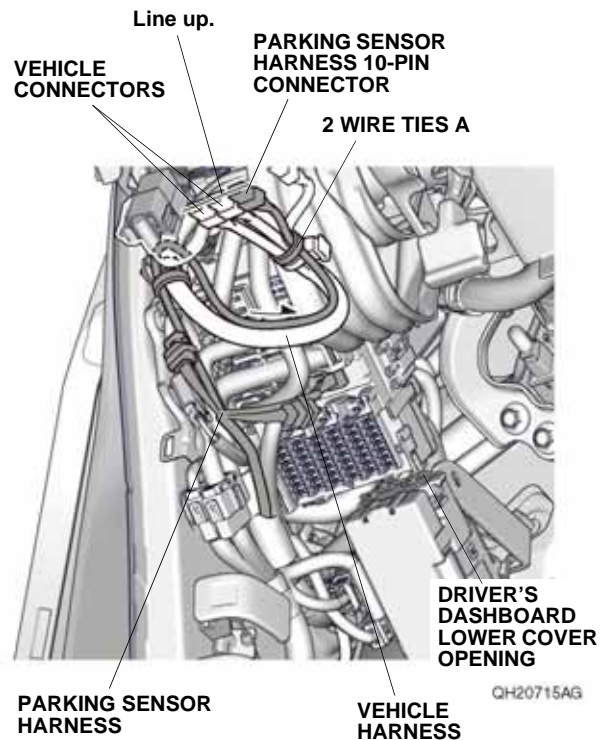
42. Unplug the other accessory harness 4-pin connector, and plug the parking sensor harness 4-pin connector into the fuse box.



43. Plug the other accessory harness 4-pin connector into the parking sensor harness 4-pin connector.

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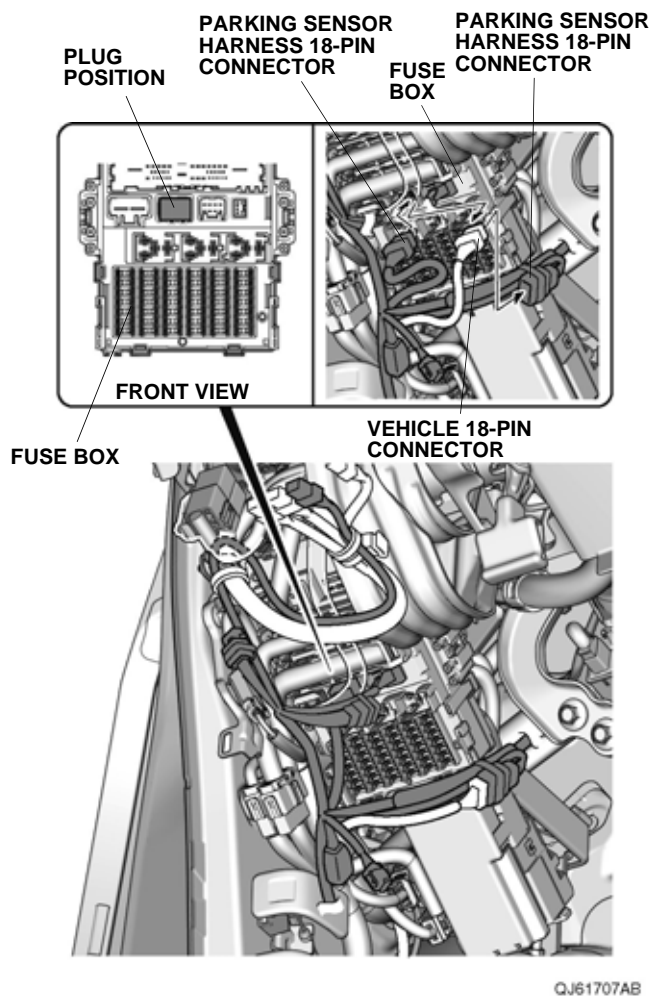
44. Route the parking sensor harness, and line up the parking sensor harness 10-pin connector with the vehicle connectors.



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45. Secure the parking sensor harness to the vehicle harness with two wire ties A.

46. Unplug the vehicle 18-pin connector, and plug the parking sensor harness 18-pin connector into the fuse box.

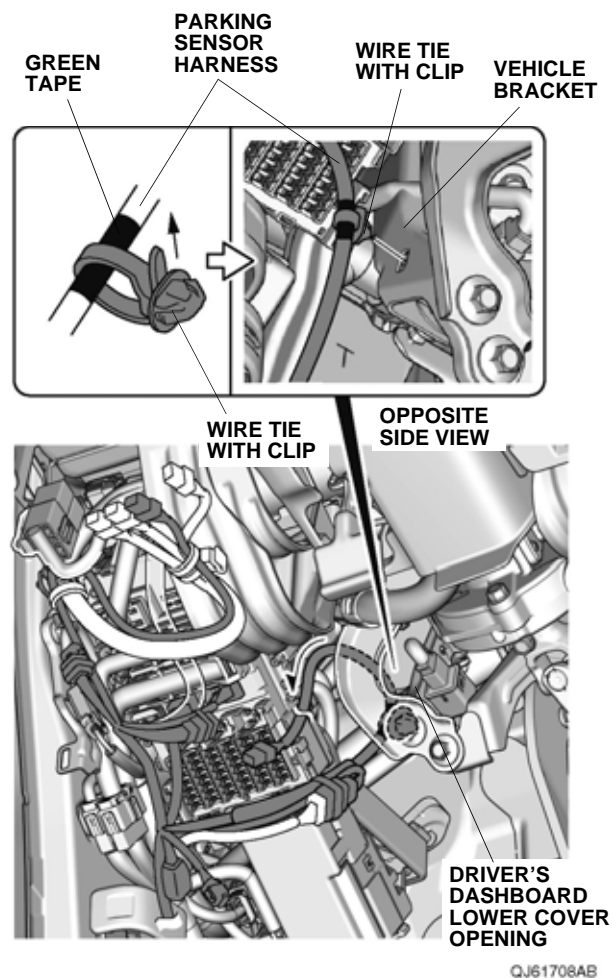


47. Plug the vehicle 18-pin connector into the parking sensor harness 18-pin connector.

If the vehicle is equipped with the vehicle harness, go to step 50; otherwise, continue with step 48.

Without vehicle harness

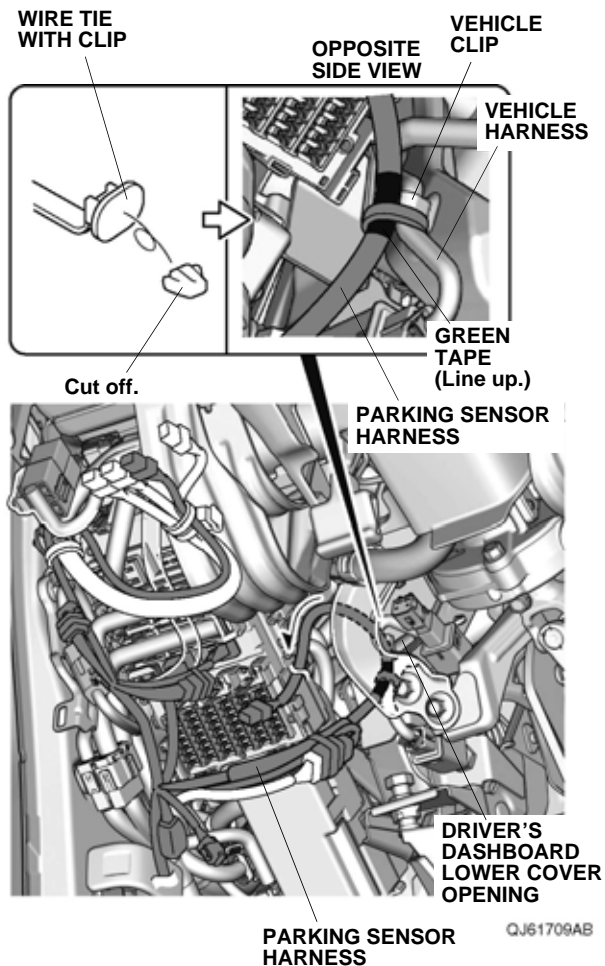
48. Route the parking sensor harness.



49. Attach one wire tie with clip around the green tape on the parking sensor harness as shown. Secure the parking sensor harness to the vehicle bracket with one wire tie with clip. Go to step 53.

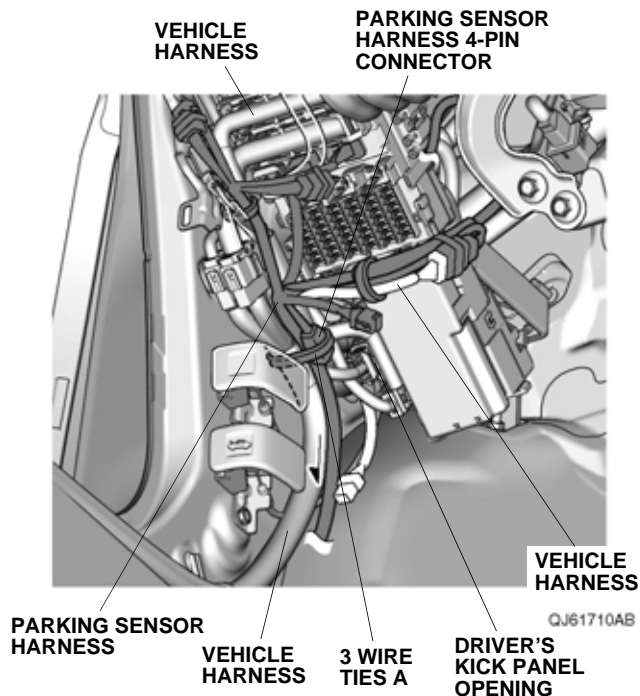
With vehicle harness

50. Route the parking sensor harness.

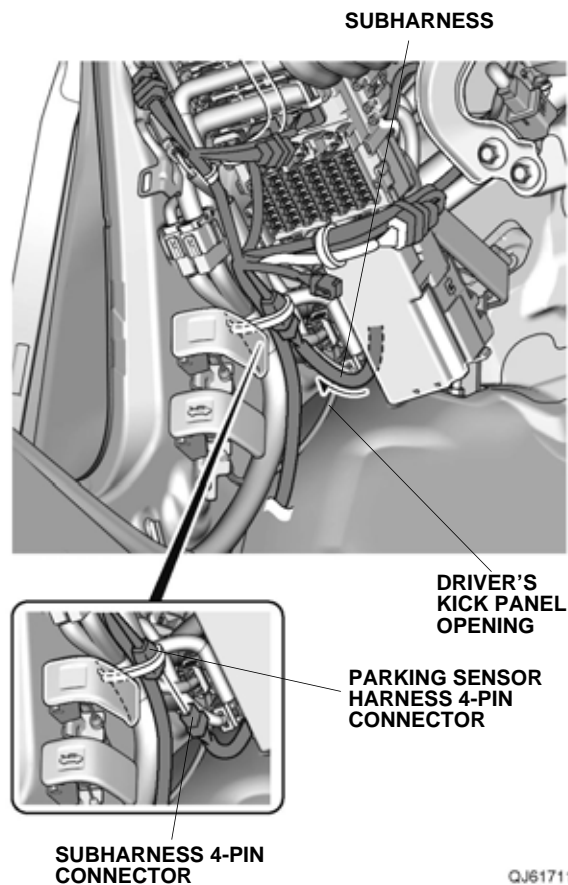


51. Using diagonal cutters, cut the clip portion off of one wire tie with clip.
52. Line up the green tape on the parking sensor harness with the vehicle clip, and secure it to the vehicle harness with the cut wire tie as shown.

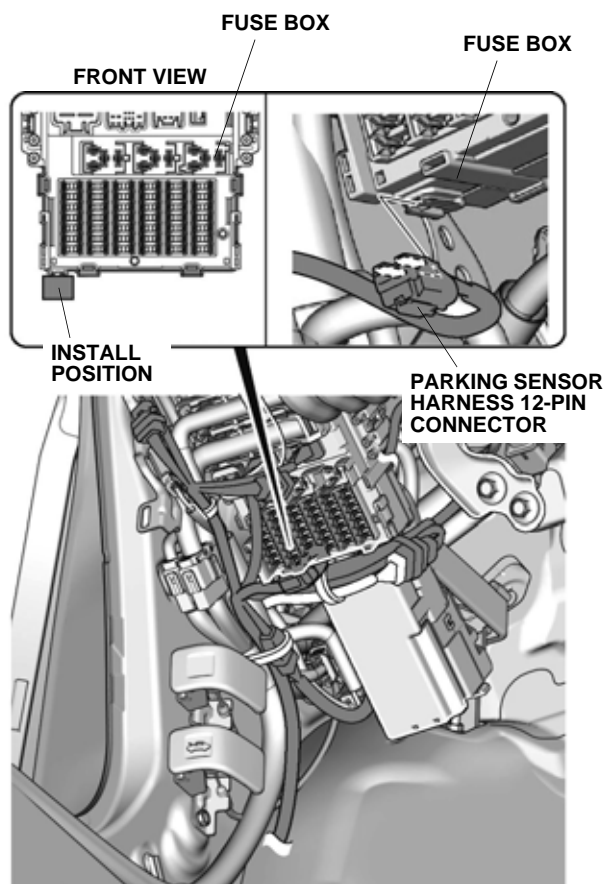
53. Secure the parking sensor harness and parking sensor harness 4-pin connector to the vehicle harness with three wire ties A.



54. Plug the subharness 4-pin connector into the parking sensor harness 4-pin connector.

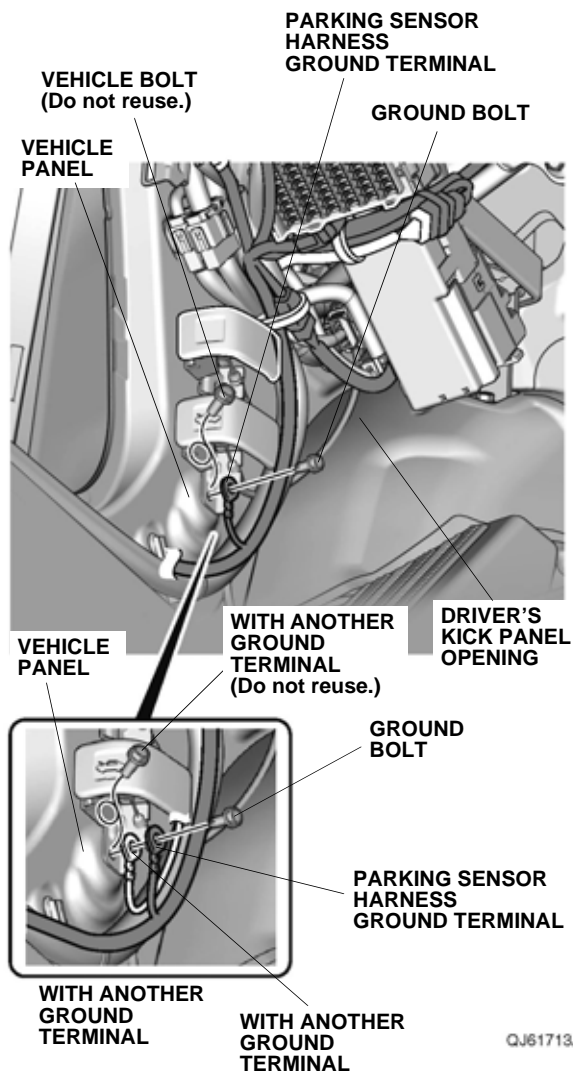


55. Secure the parking sensor harness 12-pin connector to the fuse box as shown.

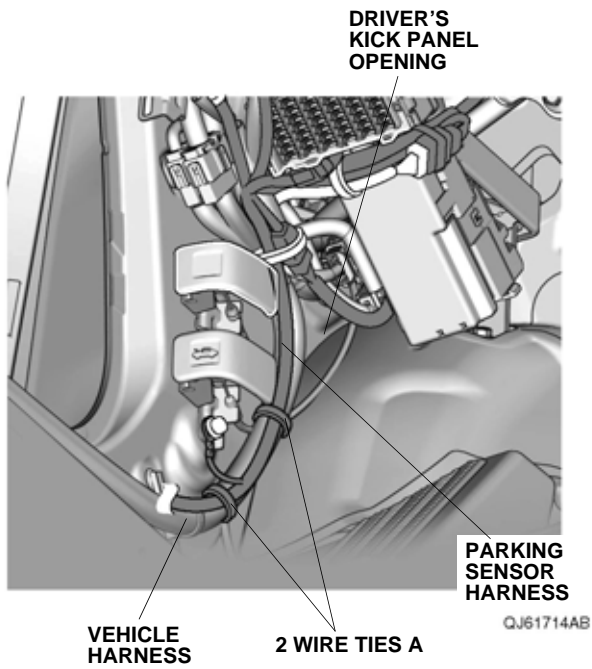


56. Remove the vehicle bolt, and secure the parking sensor harness ground terminal and all other ground terminals to the vehicle panel with the ground bolt provided.

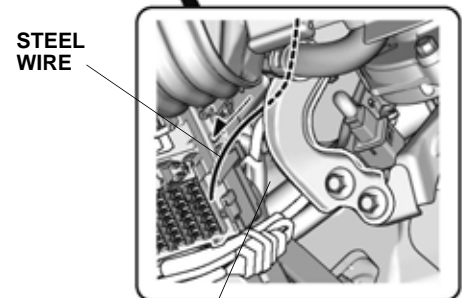
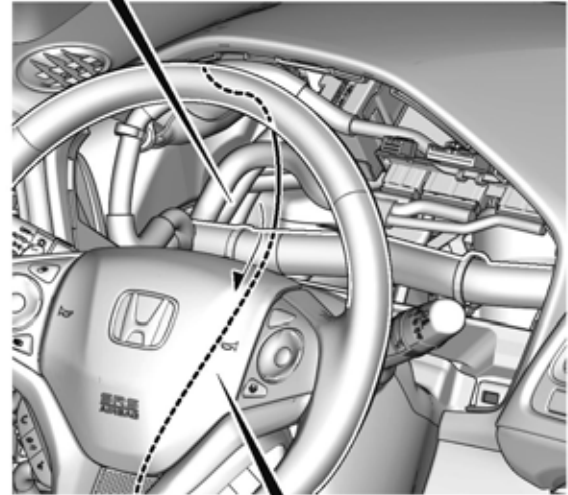
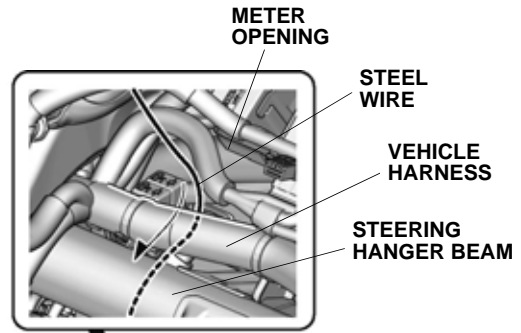
NOTE: Do not install the ground terminal on top of the caulking.



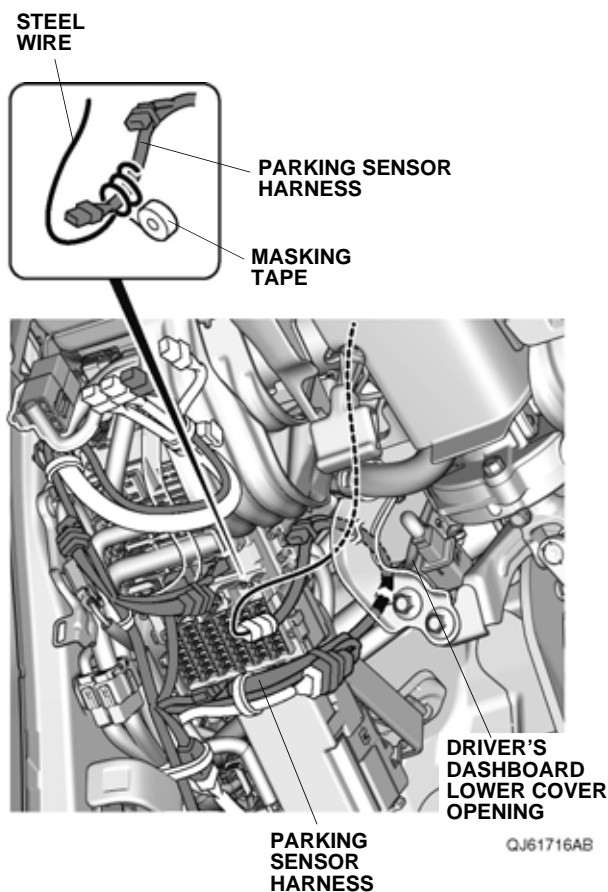
57. Secure the parking sensor harness to the vehicle harness with two wire ties A.



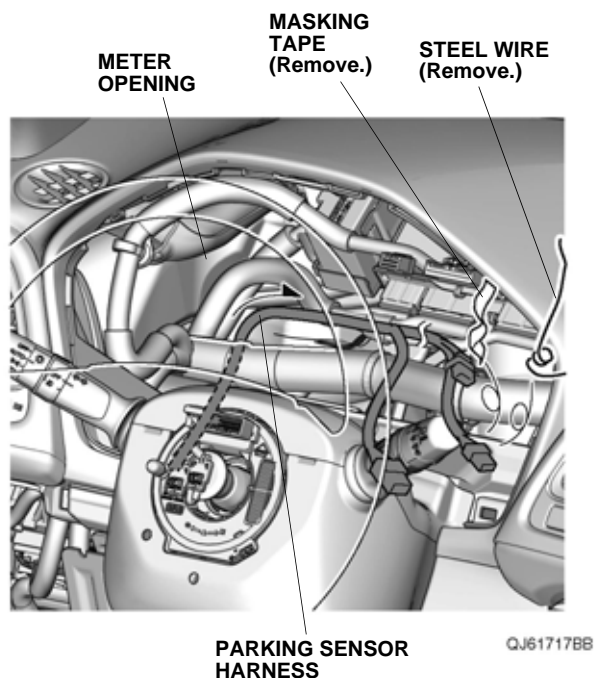
58. Route a piece of steel wire as shown.



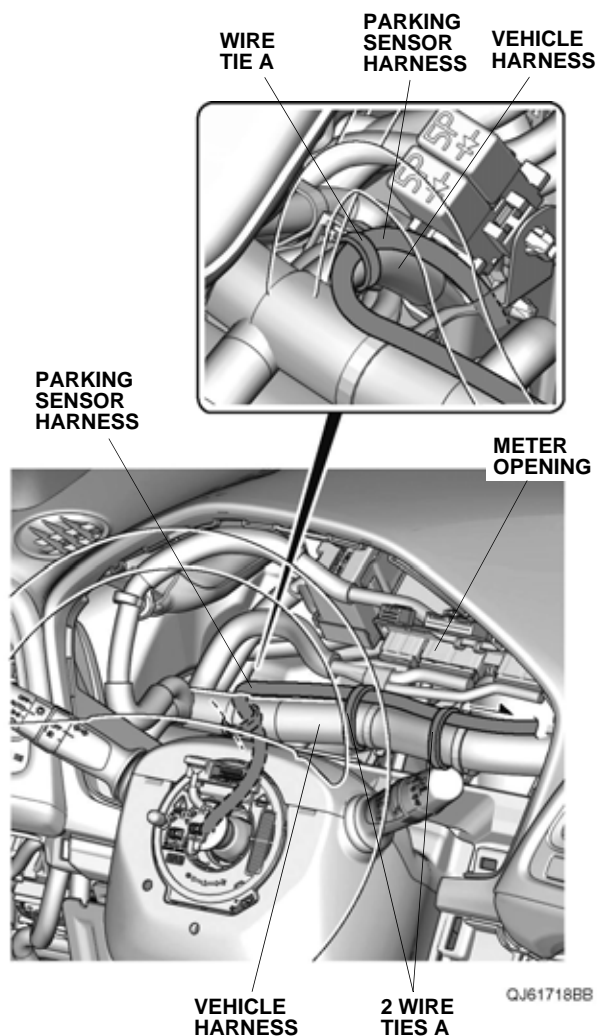
59. Attach the steel wire to the parking sensor harness with masking tape as shown.



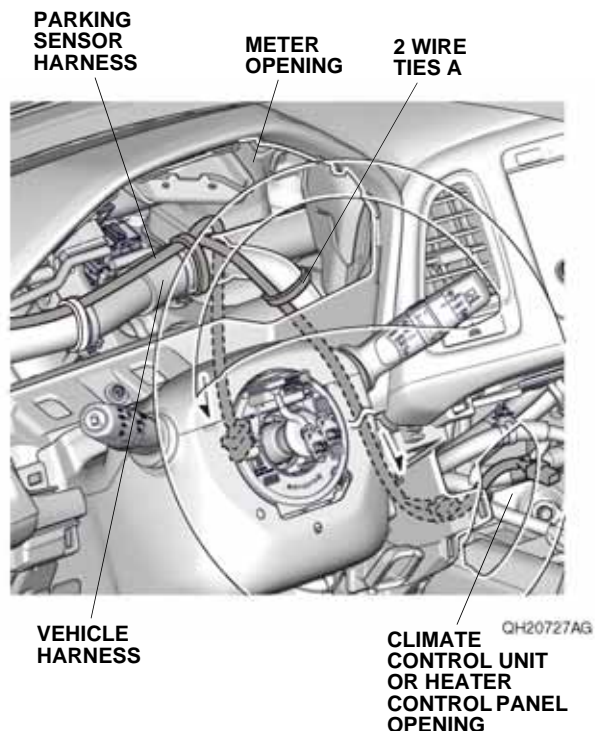
60. Route the parking sensor harness as shown. Remove the masking tape and steel wire.



61. Secure the parking sensor harness to the vehicle harness with three wire ties A.

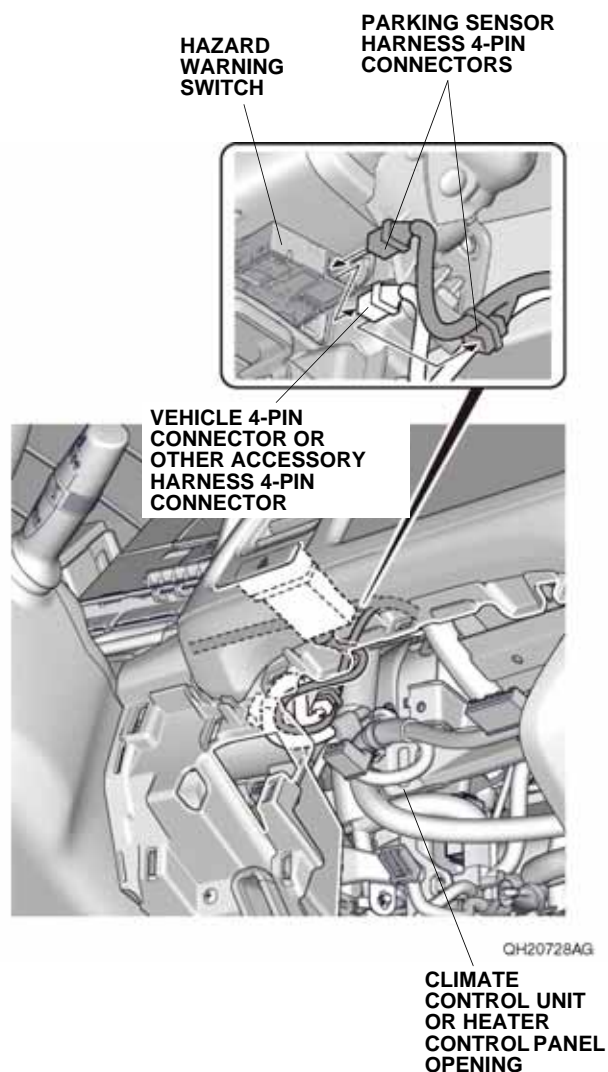


62. Route the parking sensor harness as shown.

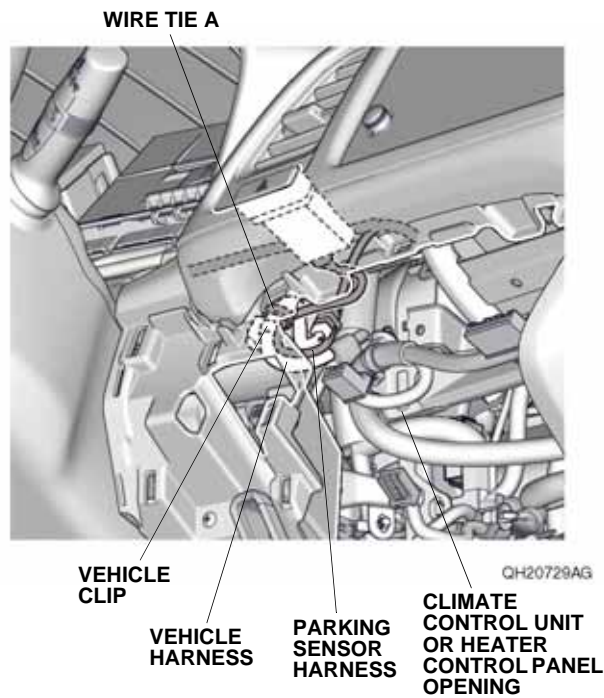


63. Secure the parking sensor harness to the vehicle harness with two wire ties A.

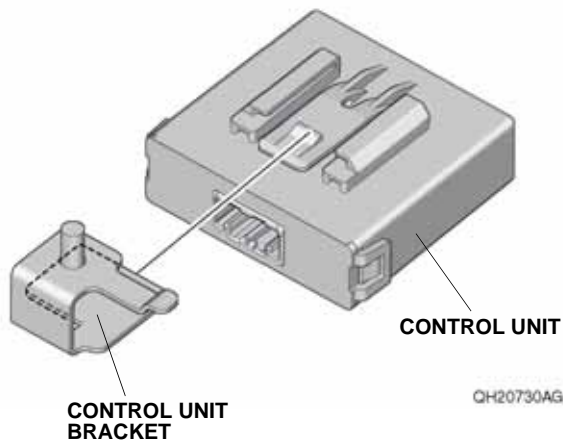
64. Unplug the 4-pin connector from the hazard warning switch, and plug it into the parking sensor harness 4-pin connector. Then, plug the parking sensor harness 4-pin connector into the hazard warning switch.



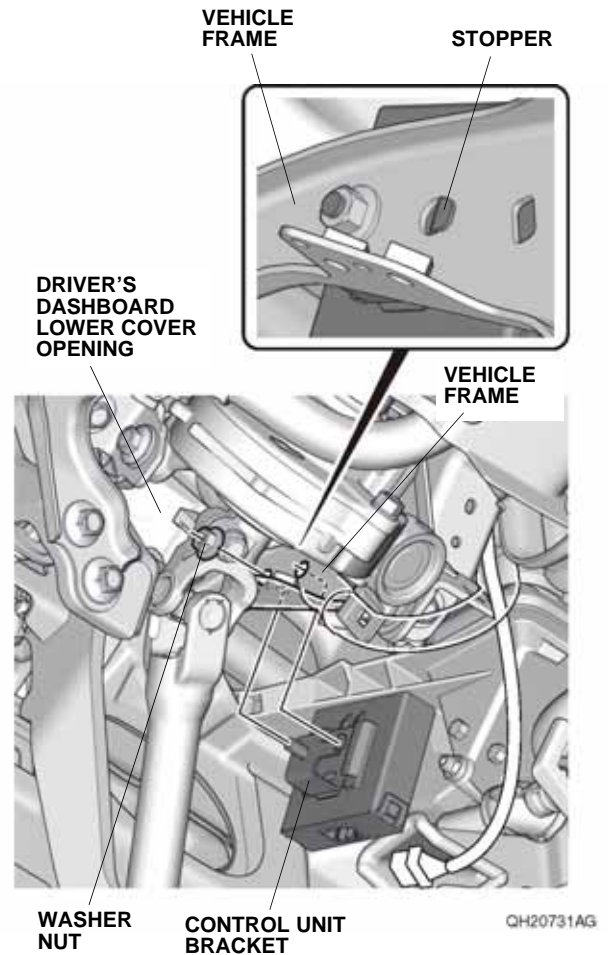
65. Secure the parking sensor harness to the vehicle harness with one wire tie A.



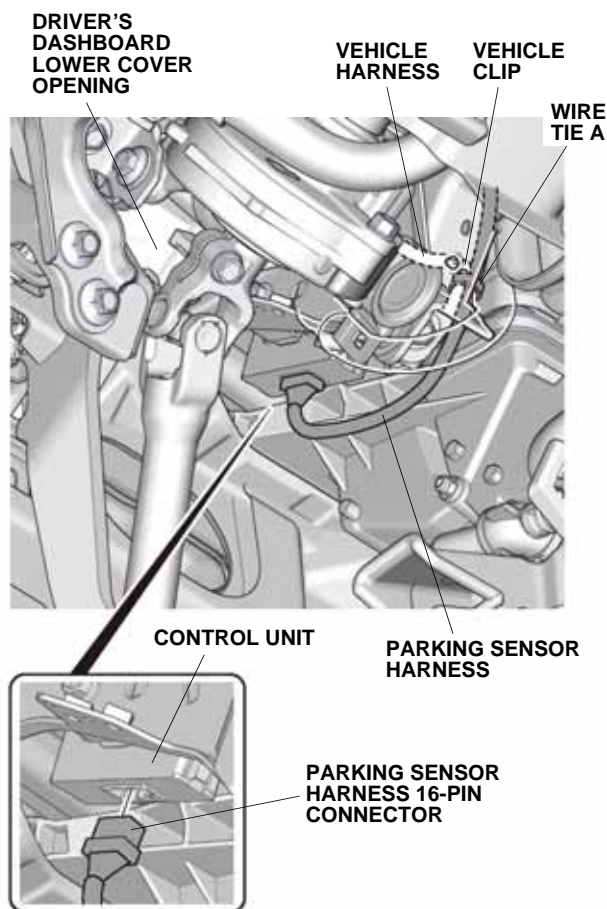
66. Install the control unit bracket to the control unit.



67. Install the control unit to the vehicle frame with one washer nut.

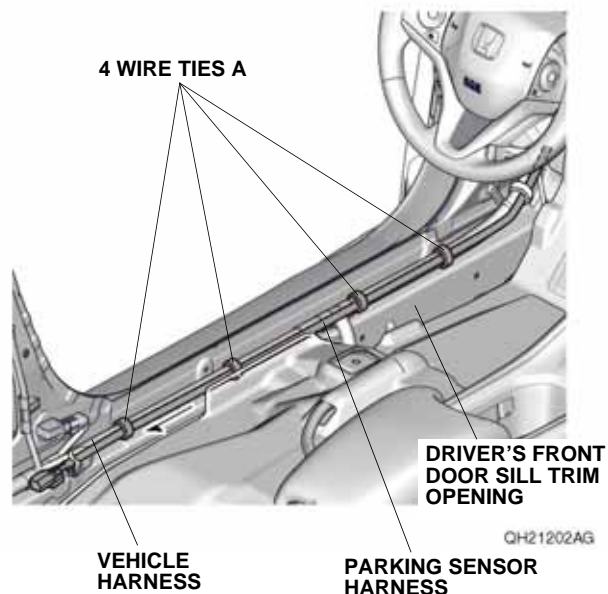


68. Plug the parking sensor harness 16-pin connector into the control unit.

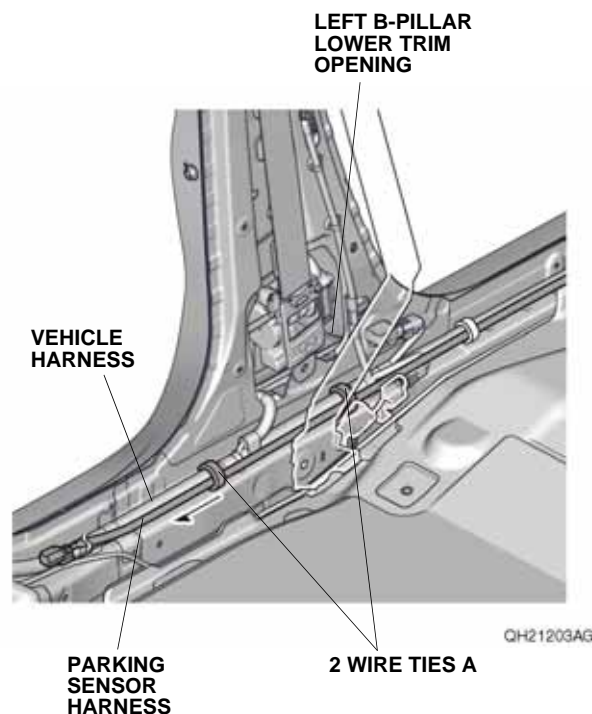


69. Secure the parking sensor harness to the vehicle harness with one wire tie A.

70. Route the parking sensor harness along the vehicle harness, and secure it to the vehicle harness with four wire ties A as shown.

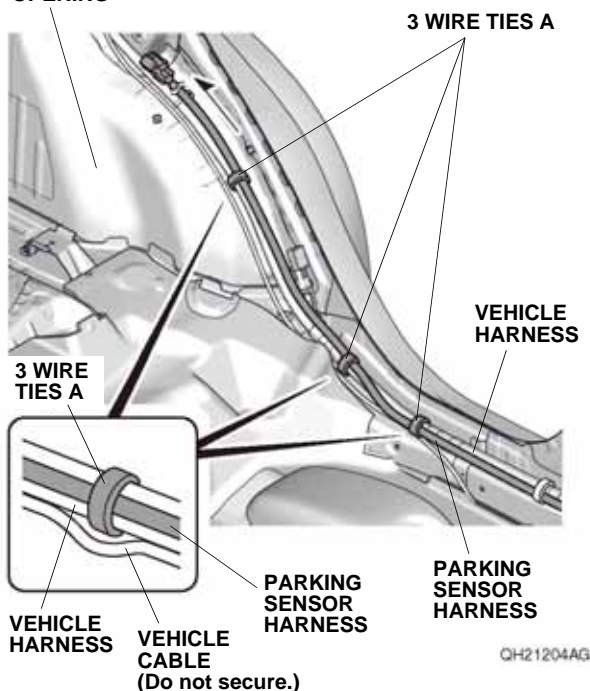


71. Route the parking sensor harness along the vehicle harness, and secure it to the vehicle harness with two wire ties A as shown.



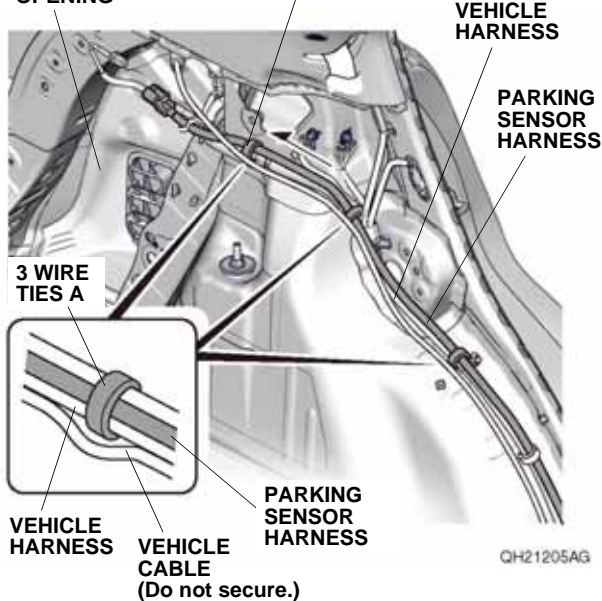
72. Route the parking sensor harness along the vehicle harness, and secure it to the vehicle harness with three wire ties A as shown.

**LEFT REAR SIDE
TRIM PANEL
OPENING**



73. Route the parking sensor harness along the vehicle harness, and secure it to the vehicle harness with three wire ties A.

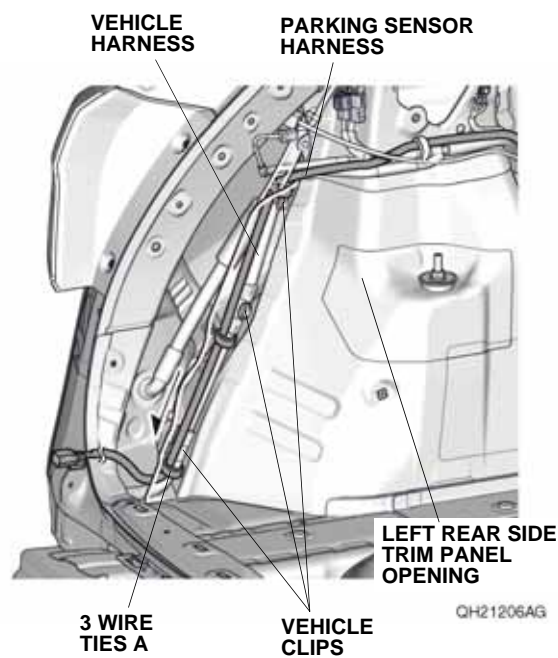
**LEFT REAR SIDE
TRIM PANEL
OPENING**



If the vehicle is a 2WD model without smart entry, go to step 75; otherwise, continue with step 74.

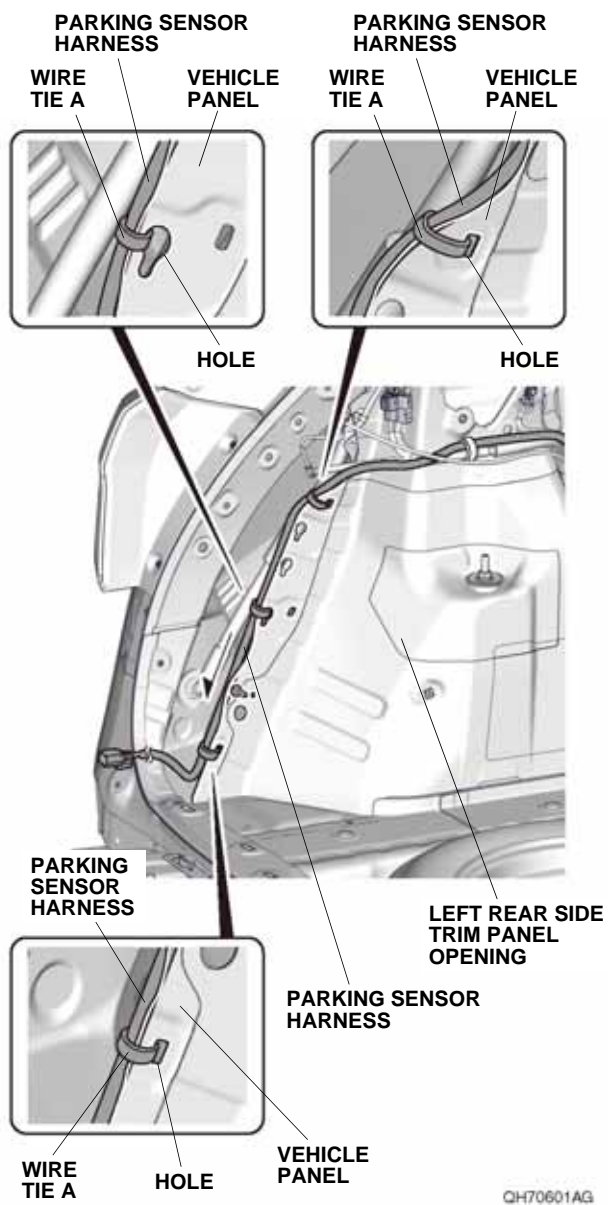
2WD models with smart entry or 4WD models

74. Route the parking sensor harness along the vehicle harness, and secure it to the vehicle harness with three wire ties A. Go to step 76.

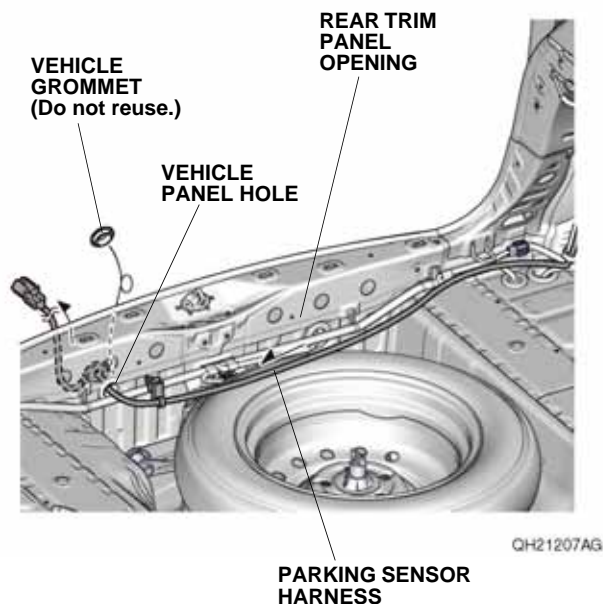


2WD models without smart entry

75. Route the parking sensor harness, and secure it to the vehicle panel with three wire ties A as shown.



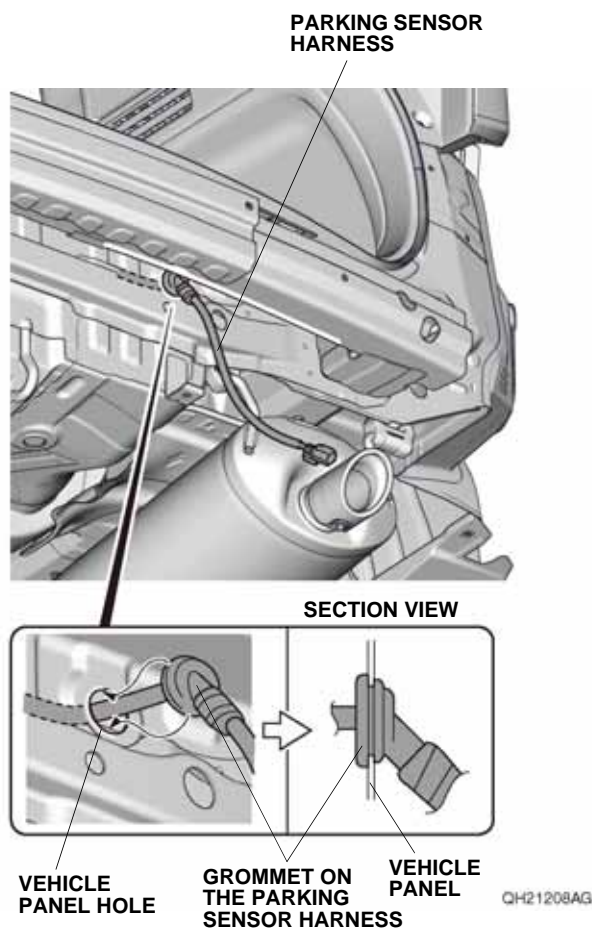
76. Remove the vehicle grommet. Route the parking sensor harness through the vehicle panel hole as shown.



77. Secure the grommet on the parking sensor harness to the vehicle panel hole.

NOTE:

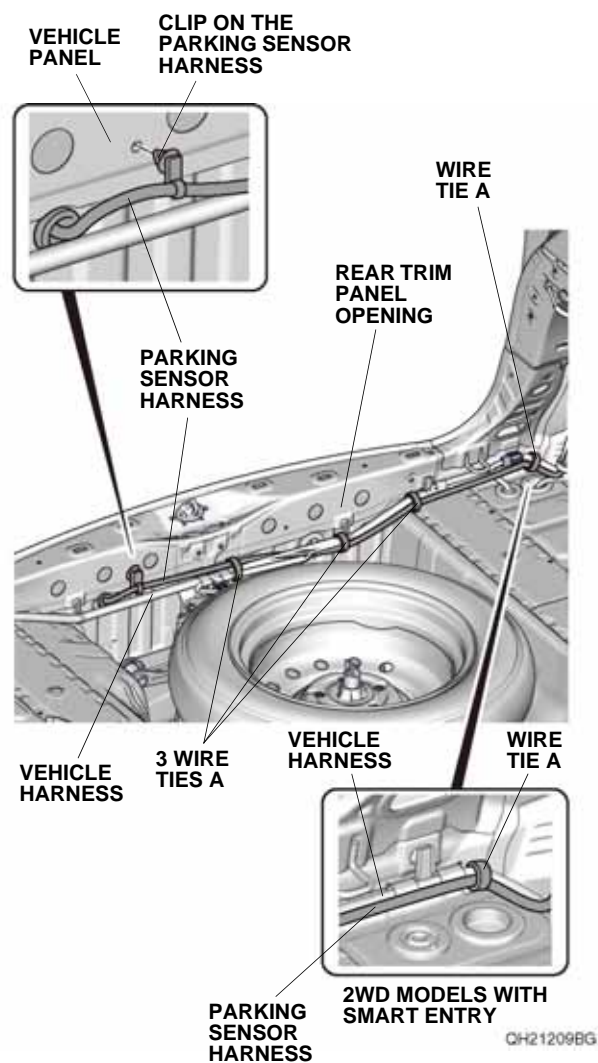
- Install the parking sensor harness by holding the grommet.
- Make sure the grommet is seated properly.



If the vehicle is a 2WD model without smart entry, go to step 79; otherwise, continue with step 78.

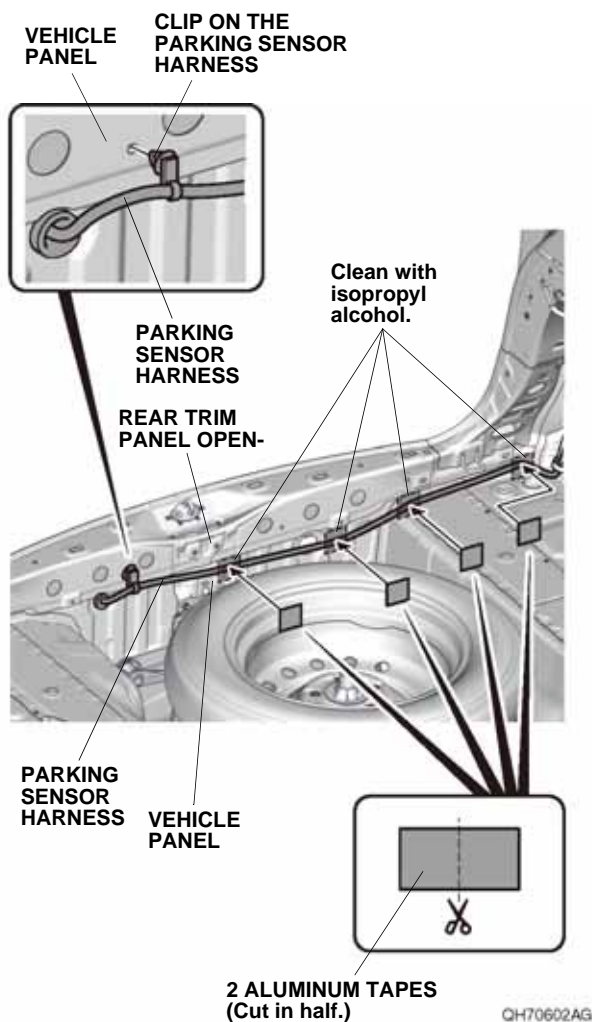
2WD models with smart entry or 4WD models

78. Secure the parking sensor harness to the vehicle harness with the clip on the parking sensor harness and four wire ties A. Go to step 81.



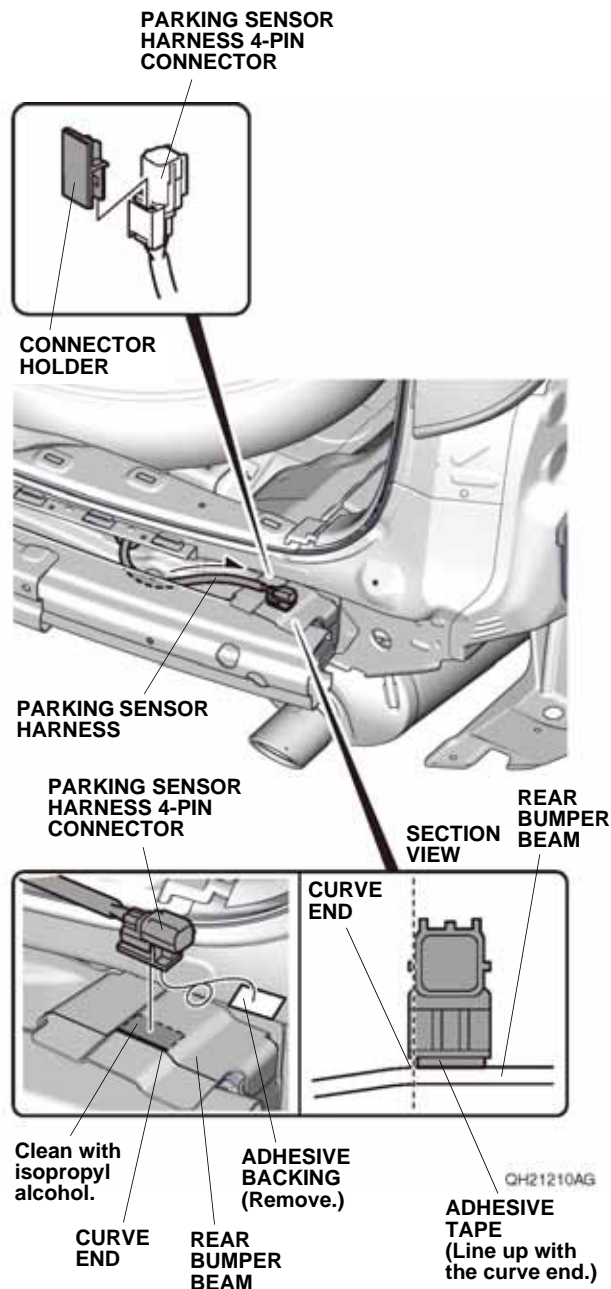
2WD models without smart entry

79. Using isopropyl alcohol on a shop towel, thoroughly clean the vehicle panel where the aluminum tape will attach.



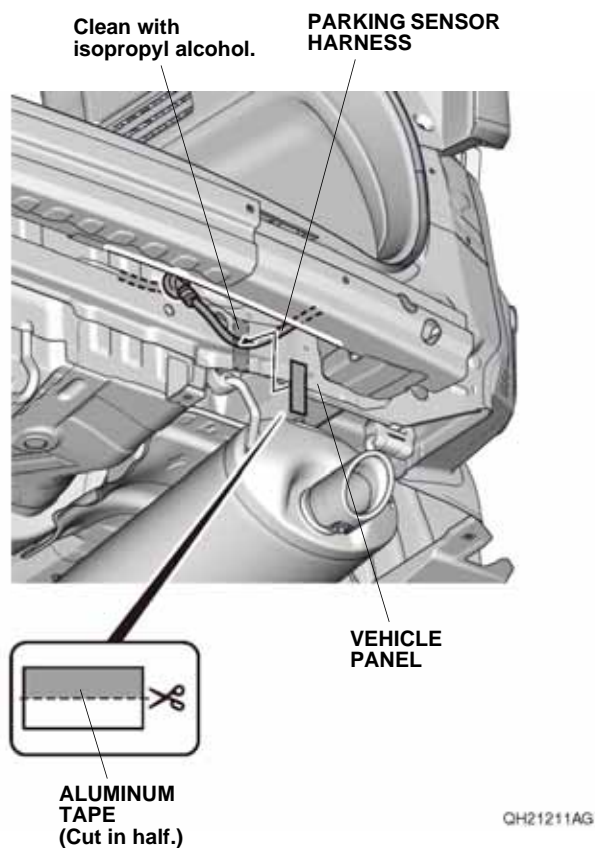
80. Using scissors, cut two aluminum tapes in half, and secure the parking sensor harness to the vehicle panel with the clip on the parking sensor harness and four pieces of aluminum tape as shown.

81. Route the parking sensor harness as shown. Install the connector holder to the parking sensor harness 4-pin connector.



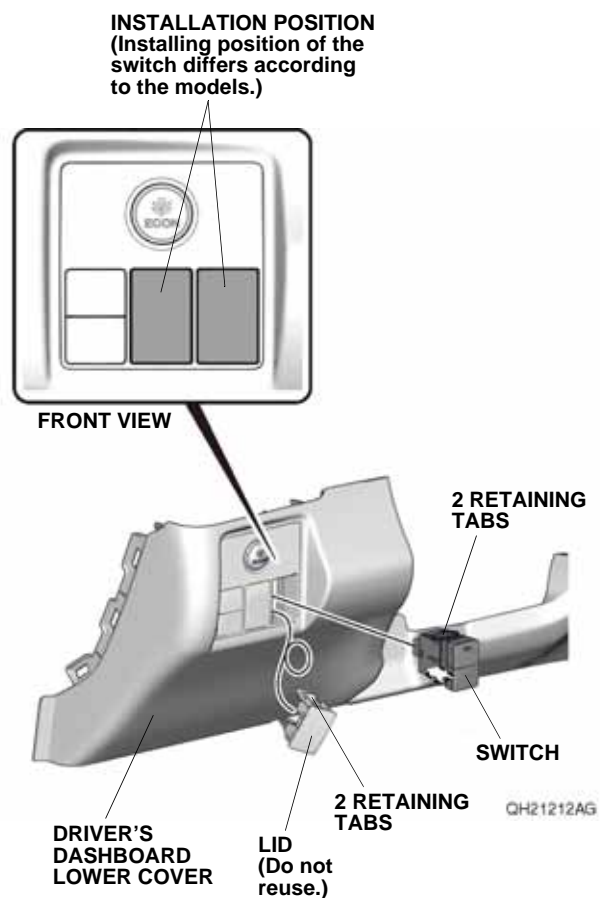
82. Using isopropyl alcohol on a shop towel, thoroughly clean the rear bumper beam where the connector holder will attach.
83. Secure the parking sensor harness 4-pin connector to the rear bumper beam as shown.

84. Using isopropyl alcohol on a shop towel, thoroughly clean the vehicle panel where the aluminum tape will attach.



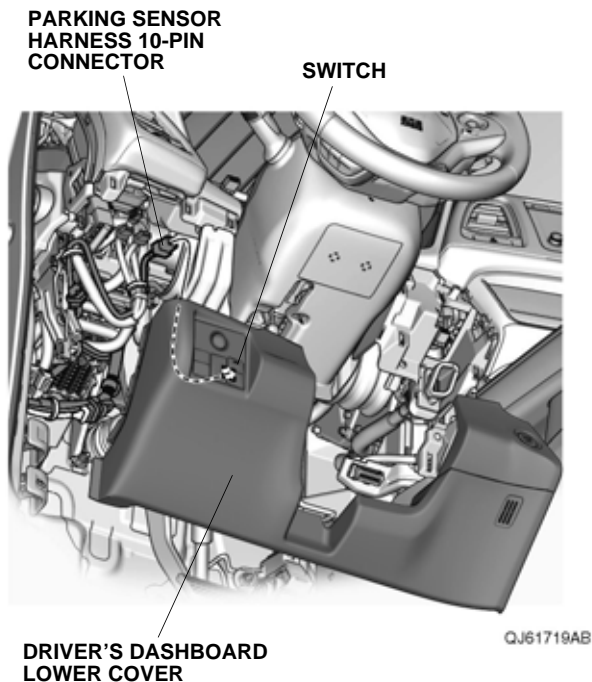
85. Using scissors, cut one aluminum tape in half, and secure the parking sensor harness to the vehicle panel with one piece of aluminum tape as shown.

86. Remove the lid from the driver's dashboard lower cover.



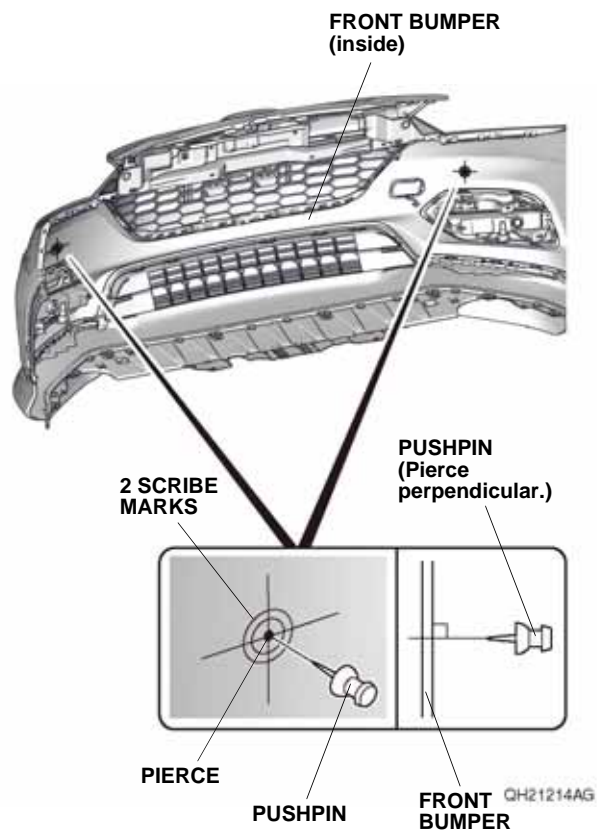
87. Install the switch to the driver's dashboard lower cover.

88. Install the climate control unit or heater control panel. Plug the parking sensor harness 10-pin connector into the switch. Install the driver's dashboard lower cover.

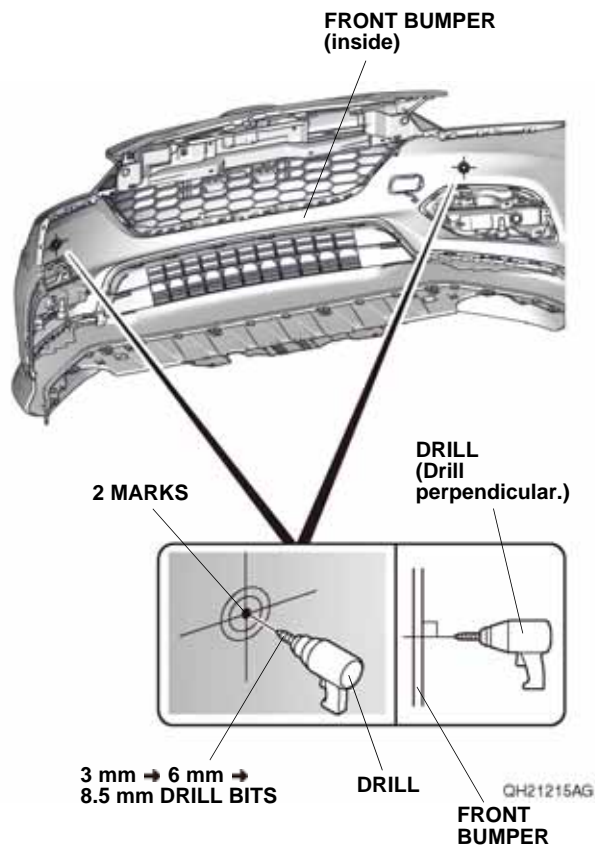


89. Mark the inside of the front bumper:

- Locate the two scribe marks on the inside of the front bumper.
 - Using a pushpin, pierce the front bumper at the center of the two scribe marks.
- NOTE: Make sure to pierce the scribe marks perpendicular to the front bumper.



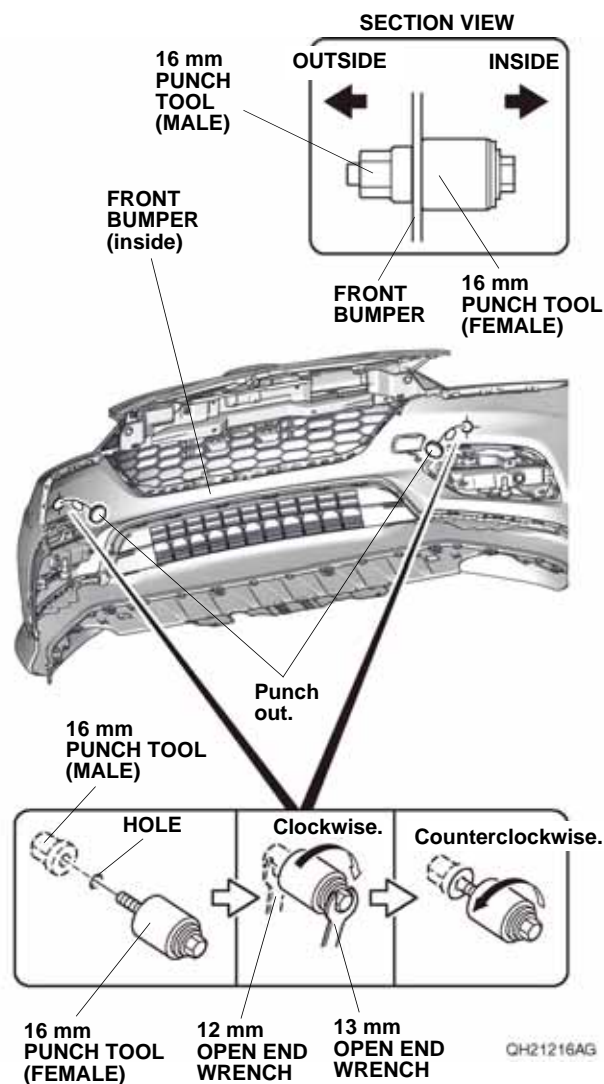
90. While wearing eye protection, drill the two pierced marks to 8.5 mm from the inside of the front bumper.
- First, drill with a 3 mm drill bit, then follow with a 6 mm drill bit, and finish with an 8.5 mm drill bit.
- NOTE: Make sure to drill perpendicular to the front bumper. Remove any burrs.



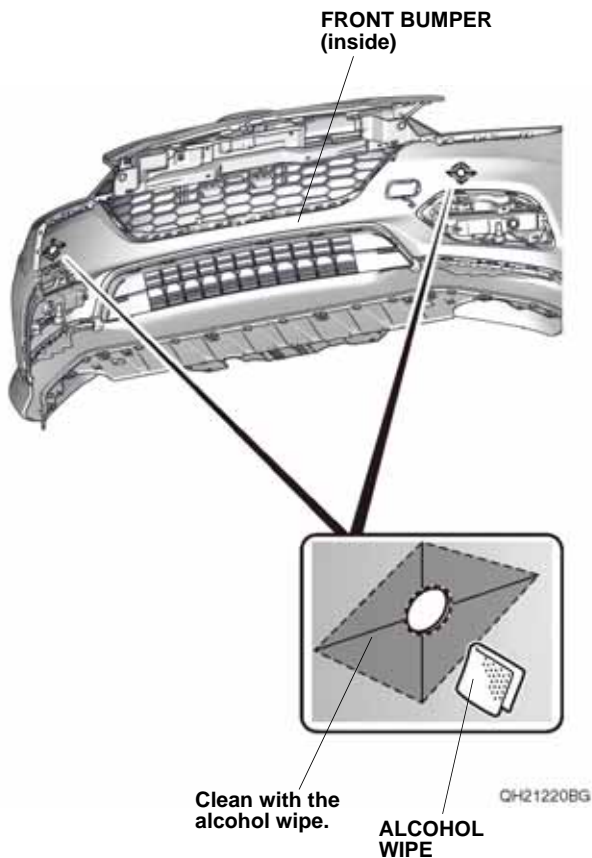
91. Using a 16 mm punch tool, punch out the two front bumper holes as shown.

NOTE:

- Always hold the punch tool perpendicular to the bumper while turning the wrenches.
- Make sure to remove the punched out material after every hole.



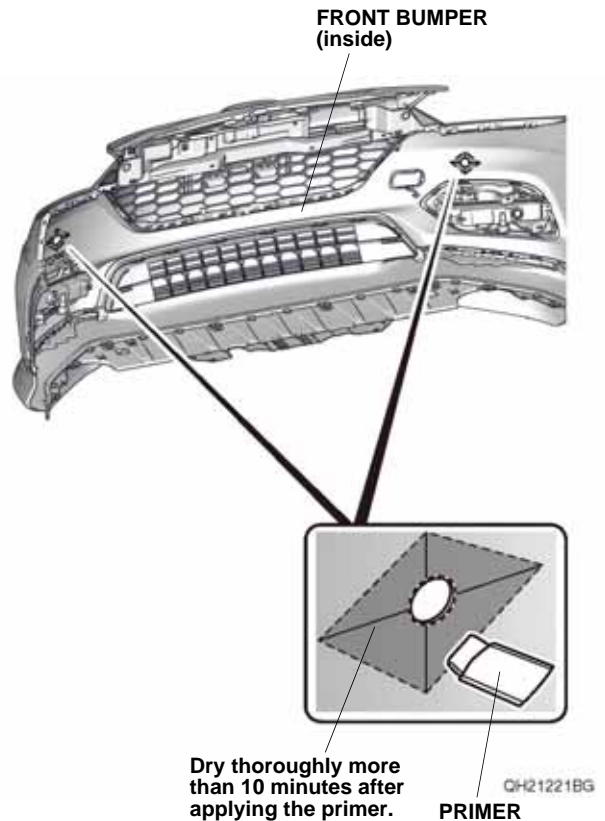
92. Using an alcohol wipe, thoroughly clean the front bumper where the two retainers A will attach.



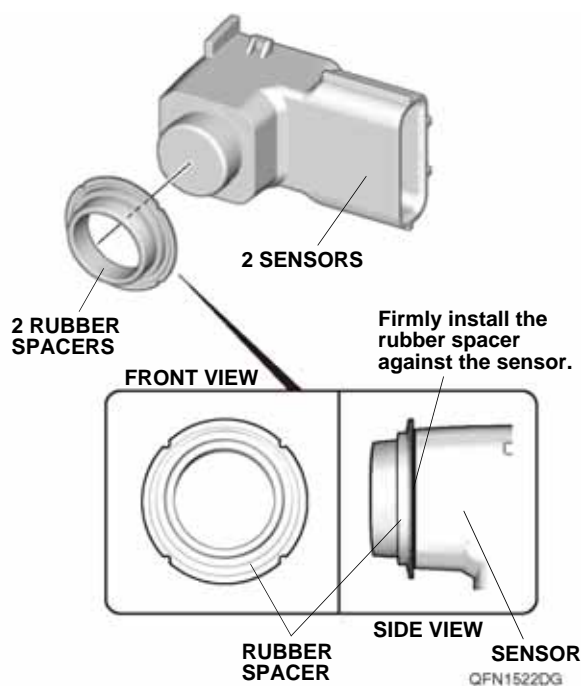
93. Apply the primer to the front bumper.

NOTE:

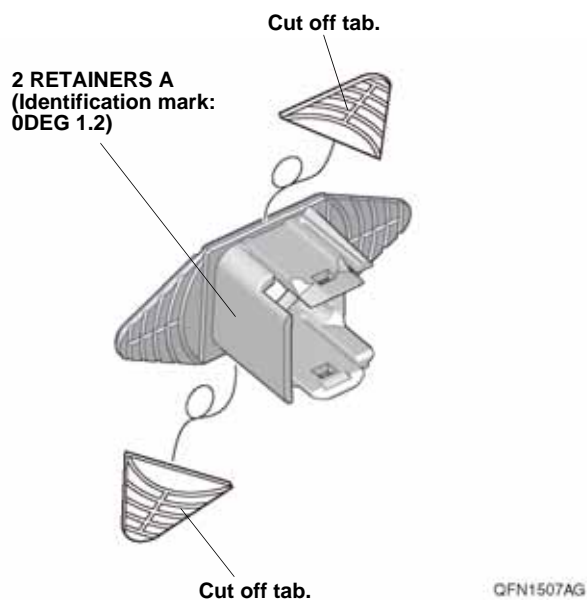
- Apply the primer evenly.
- Be careful not to apply the primer anywhere except the indicated area.
- Do not apply additional primer.
- Apply the primer, and let it dry for at least 10 minutes.
- Attach the front retainers within 24 hours after applying the primer.



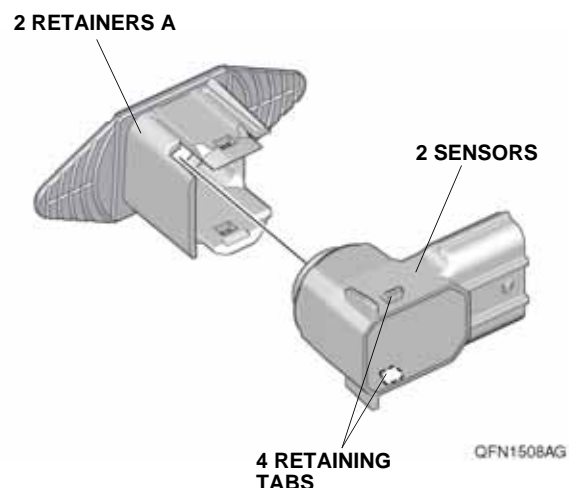
94. Install the two rubber spacers to the two sensors as shown.



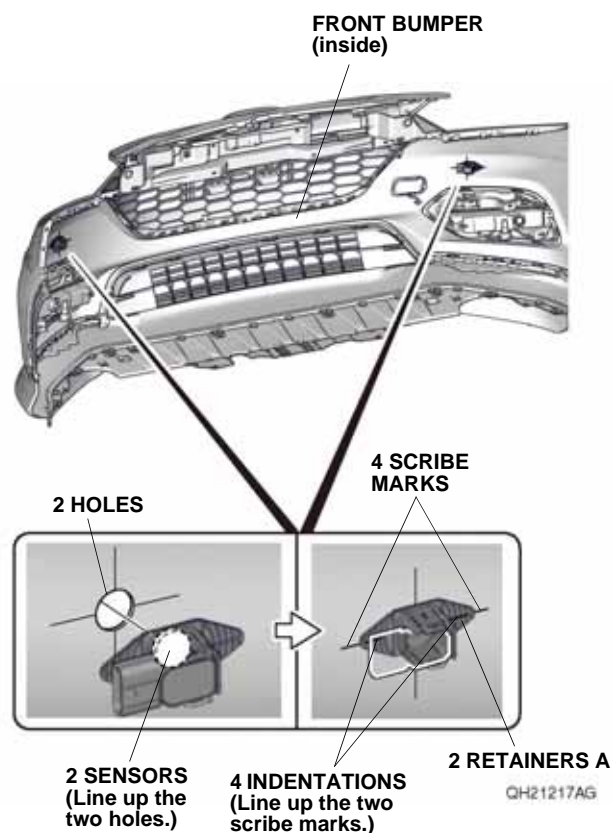
95. Using diagonal cutters, cut the tabs off the two retainers A as shown. Remove any burrs.



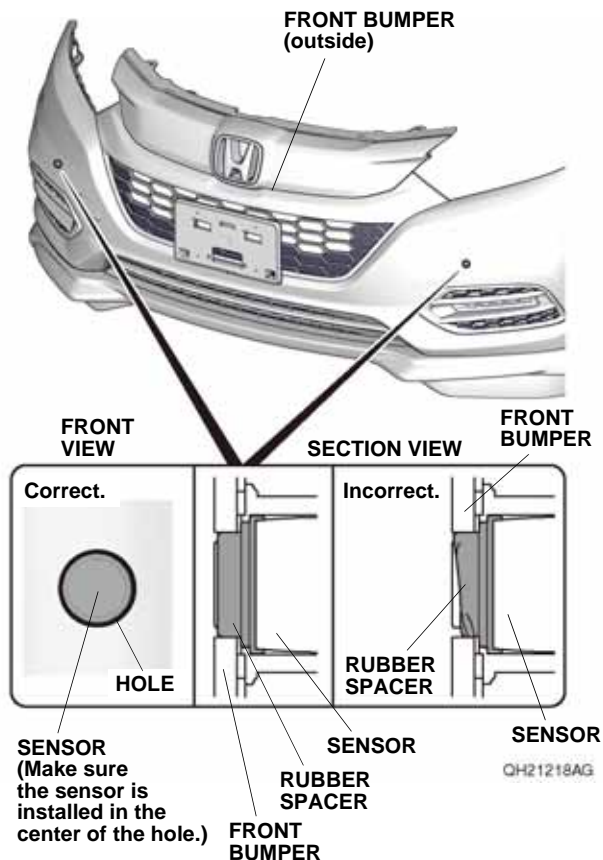
96. Install the two sensors to the two retainers A.



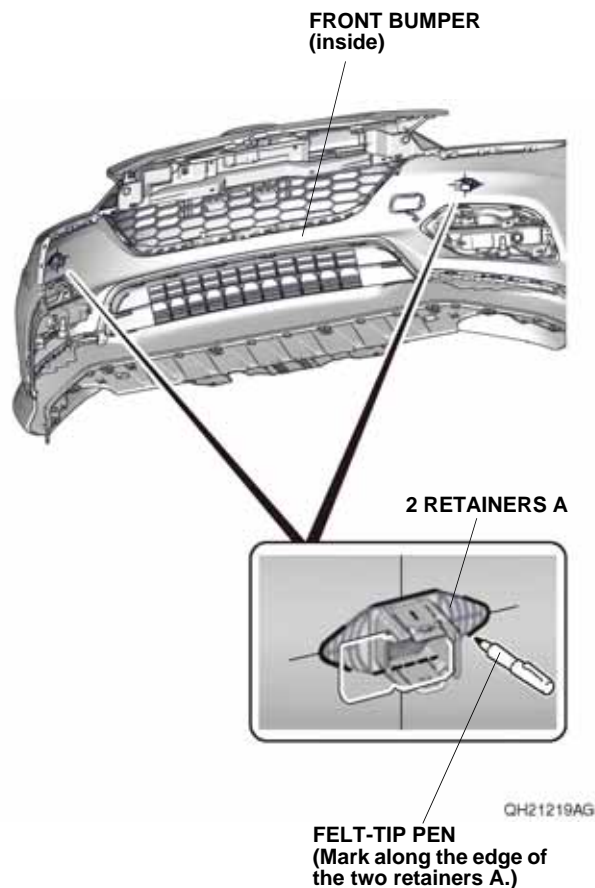
97. Line up the two sensors and two retainers A to the front bumper as shown.



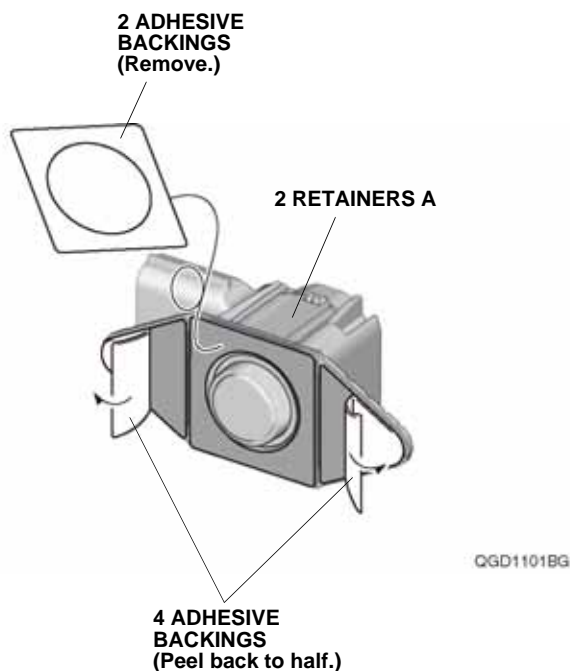
98. Make sure the two sensors are installed properly.



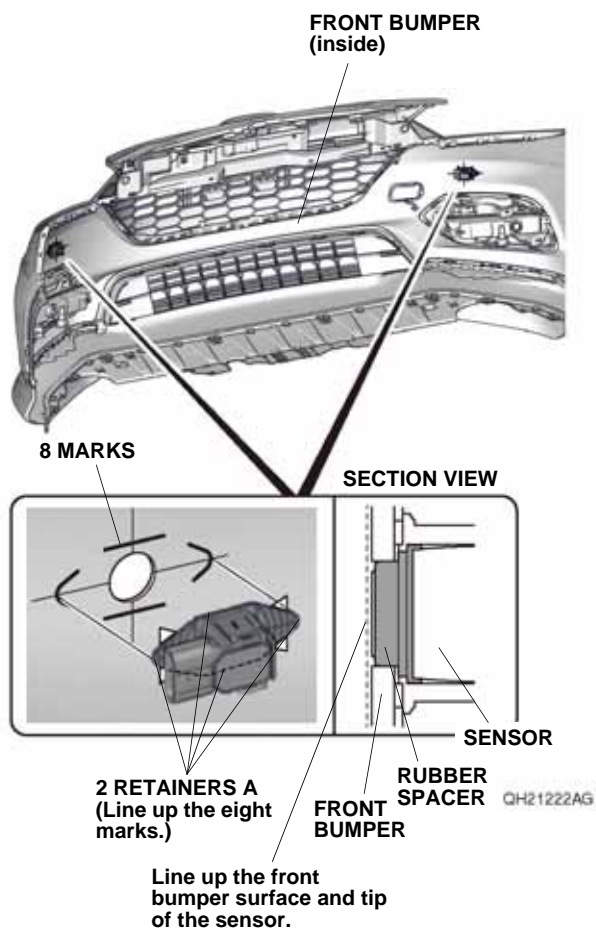
99. Using a felt-tip pen, mark the front bumper as shown.



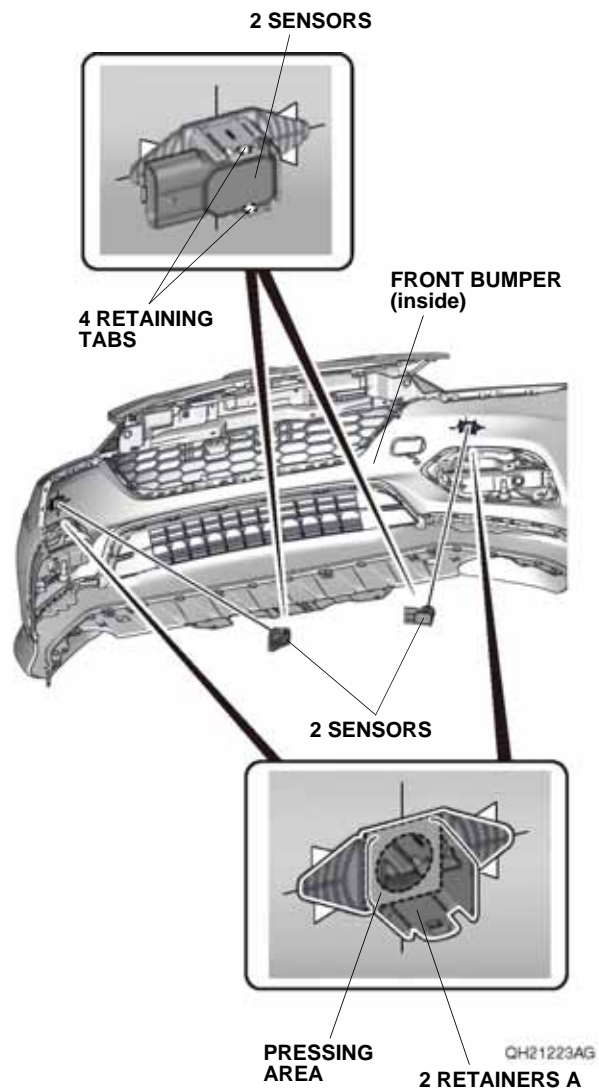
100. Remove the two adhesive backings and peel back the four adhesive backings as shown.



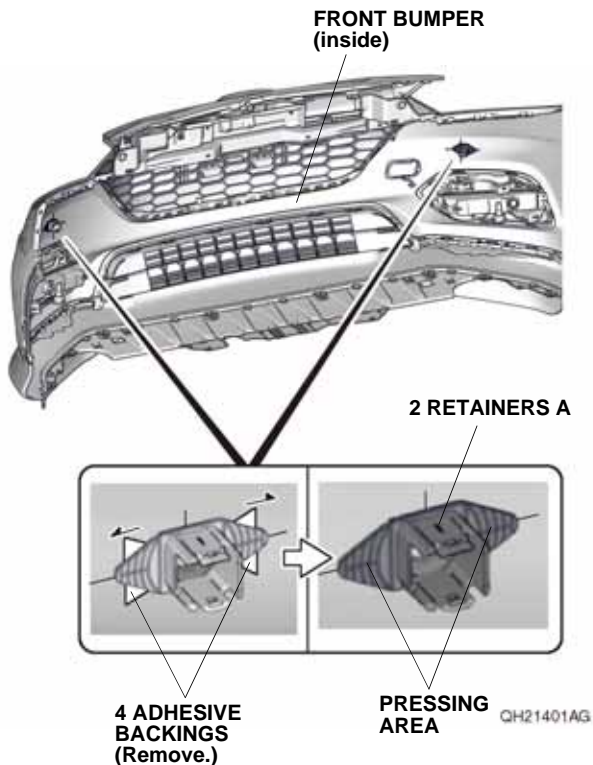
101. Attach the two retainers A to the front bumper as shown.



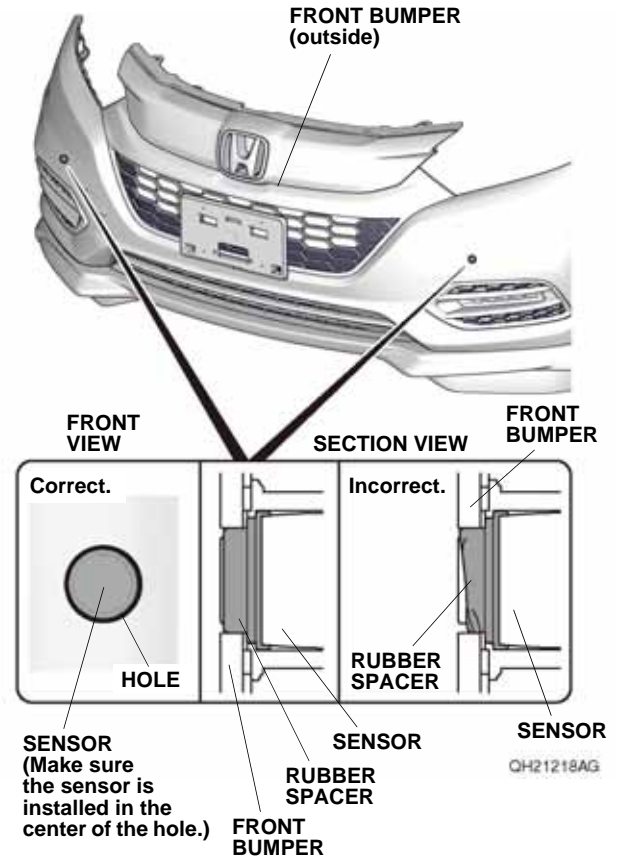
102. Remove the two sensors, and firmly press the two retainers A against the front bumper.



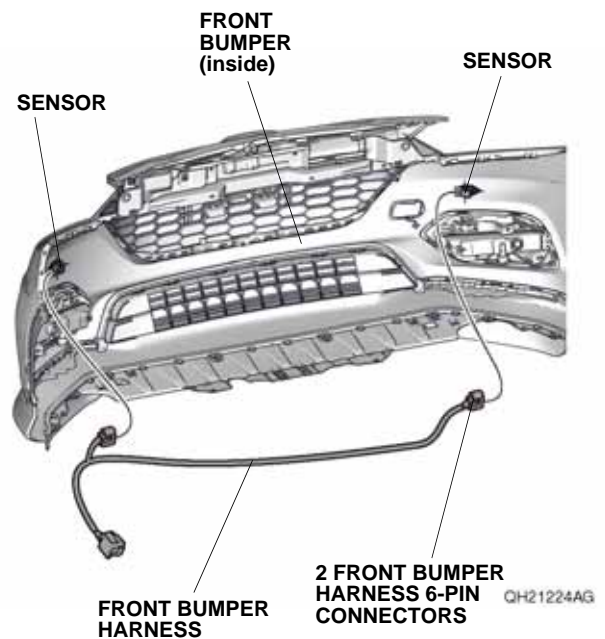
103. Remove the four adhesive backings, and firmly press the two retainers A against the front bumper. Install the two sensors.



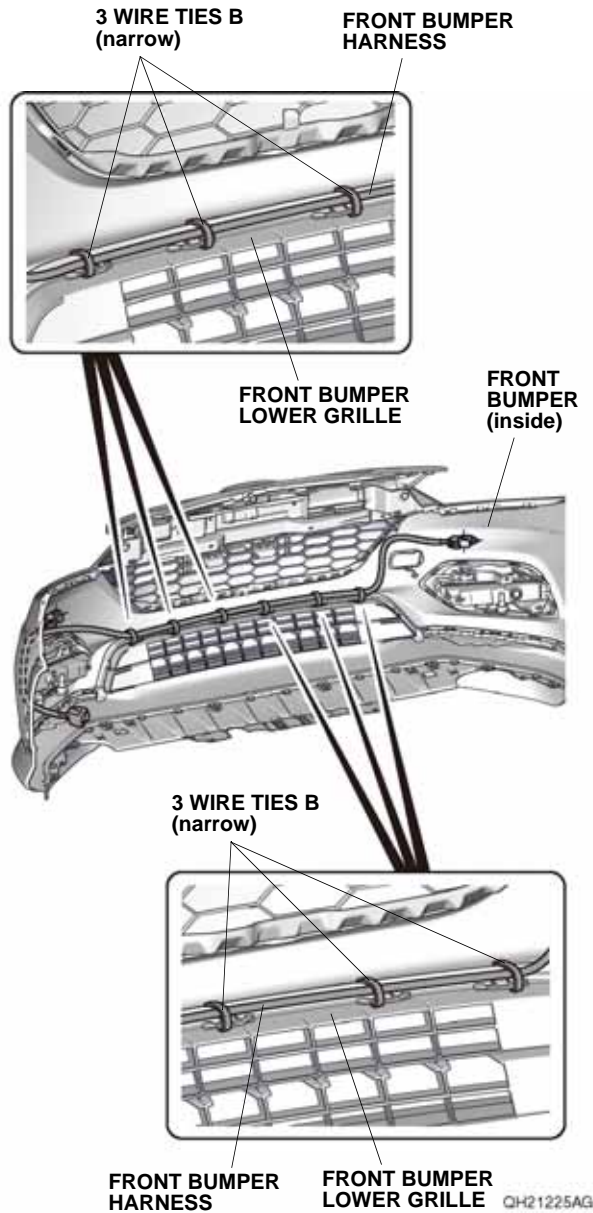
104. Make sure the two sensors are installed properly.



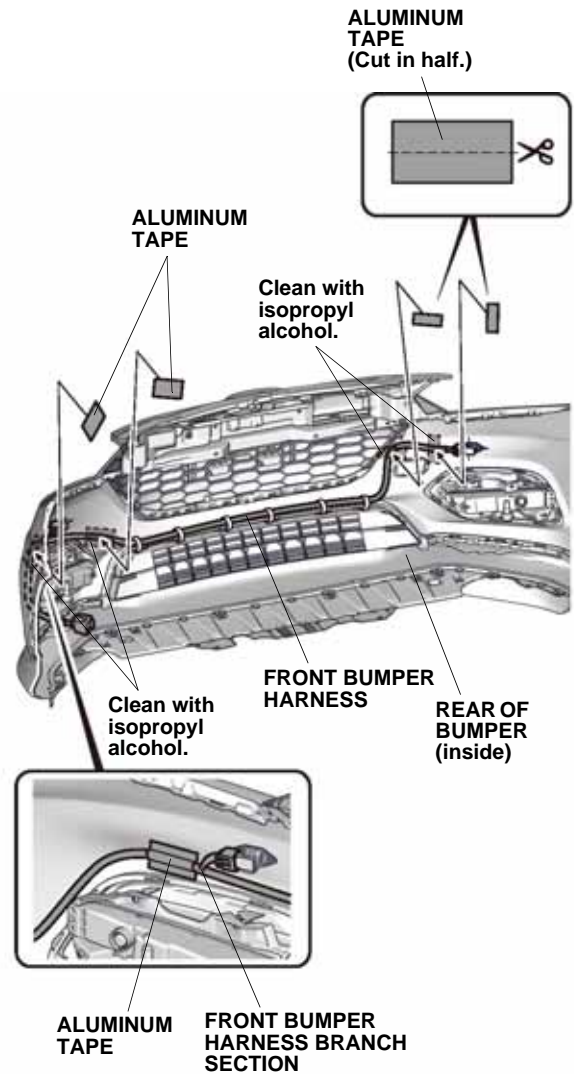
105. Plug the two front bumper harness 6-pin connectors into the two sensors.



106. Secure the front bumper harness to the front bumper lower grille with six wire ties B (narrow) as shown.



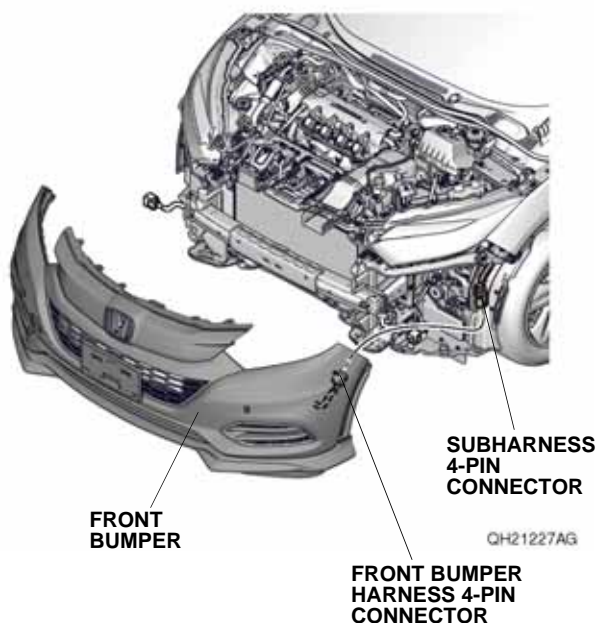
107. Using isopropyl alcohol on a shop towel, thoroughly clean the front bumper where the aluminum tape will attach.



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108. Secure one side of the front bumper harness to the bumper with two pieces of aluminum tape. Using scissors, cut one piece of aluminum tape in half, and secure the front bumper harness to the other side of the front bumper with those two pieces of aluminum tape as shown.

109. With the help of an assistant, bring the front bumper close to the vehicle, and plug the front bumper harness 4-pin connector into the subharness 4-pin connector. Install the front bumper.

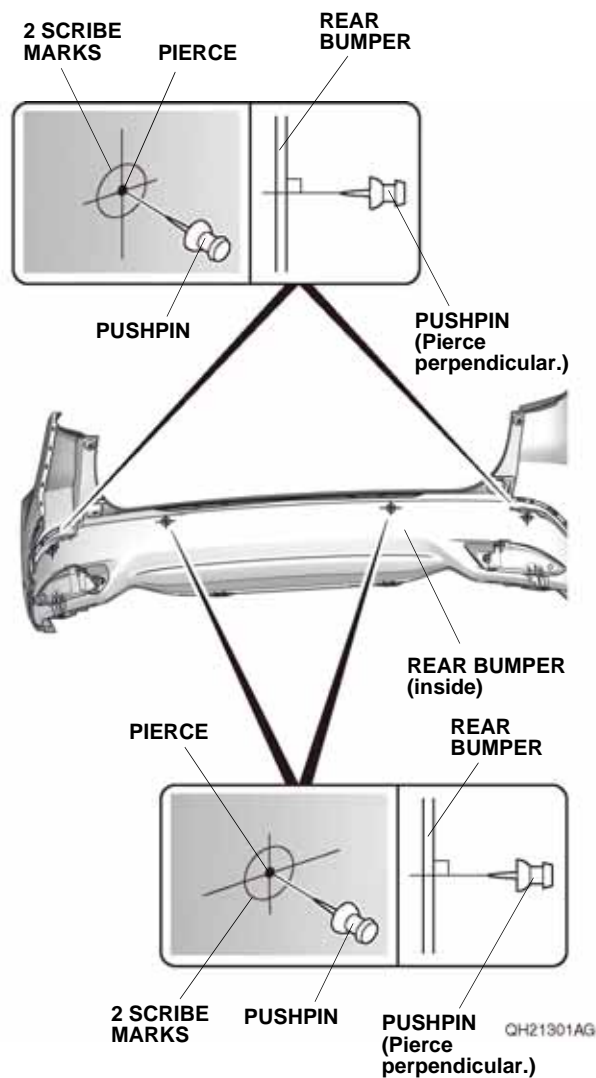


Touring or Sport vehicles, go to step 142; otherwise, continue with step 110.

Except Touring or Sport grade

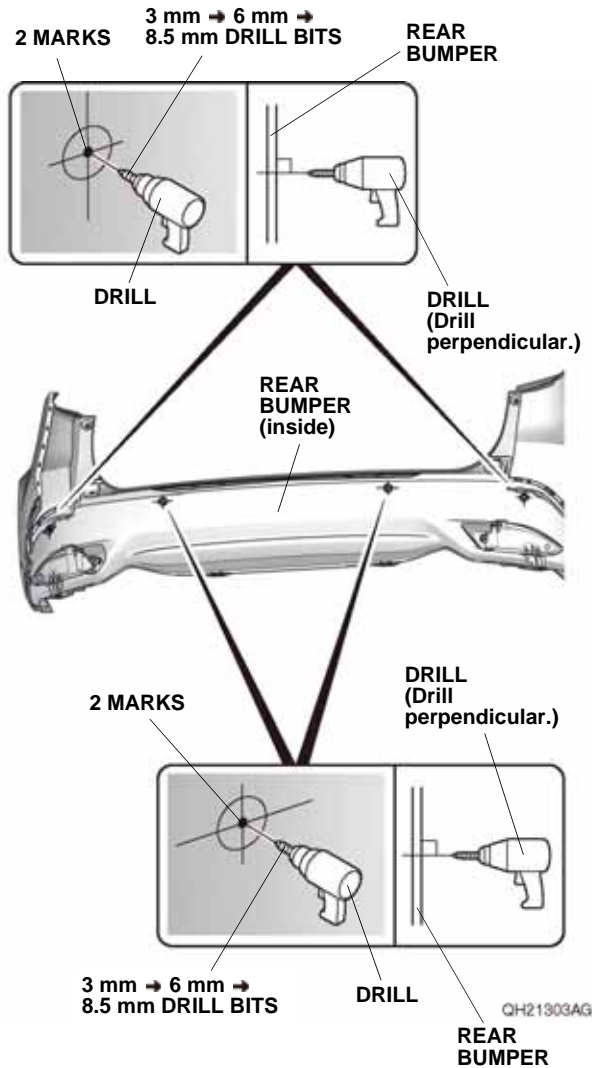
110. Mark the inside of the rear bumper:

- Locate the four scribe marks on the inside of the rear bumper.
 - Using a pushpin, pierce the rear bumper at the center of the four scribe marks.
- NOTE: Make sure to pierce the scribe marks perpendicular to the rear bumper.



111. While wearing eye protection, drill the four pierced marks to 8.5 mm from the inside of the rear bumper.

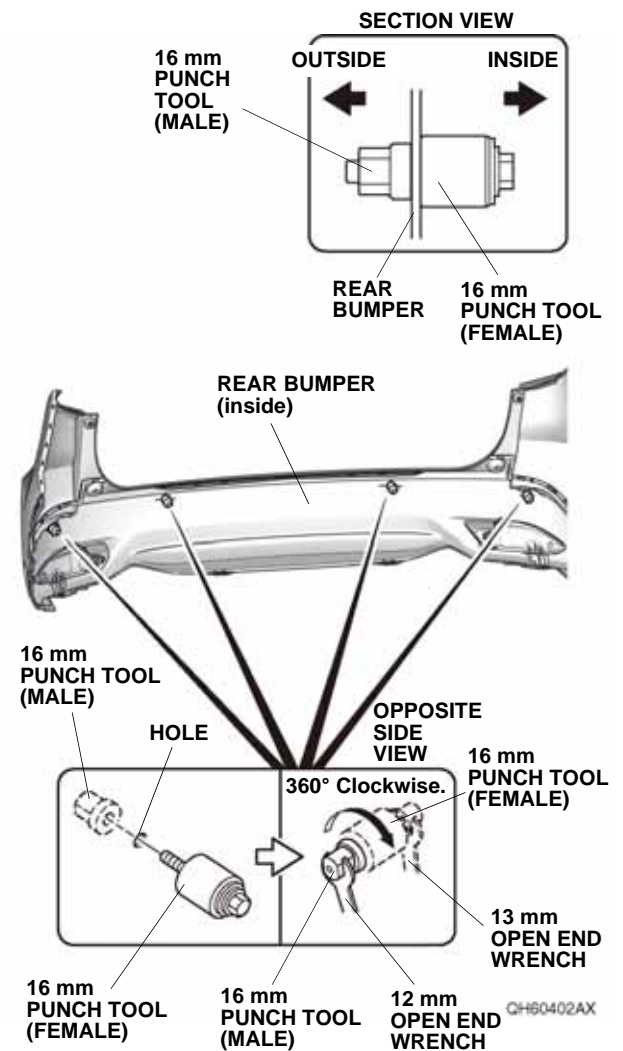
- First, drill with a 3 mm drill bit, then follow with a 6 mm drill bit, and finish with an 8.5 mm drill bit. NOTE: Make sure to drill perpendicular to the rear bumper. Remove any burrs.



112. Thread a 16 mm punch tool (female) into the hole on the rear bumper. Then, install the 16 mm punch tool (male) onto the 16 mm punch tool (female). Holding the 16 mm punch tool (female) with a 13 mm open end wrench, turn the 16 mm punch tool (male) 360° clockwise with 12 mm open end wrench.

NOTE:

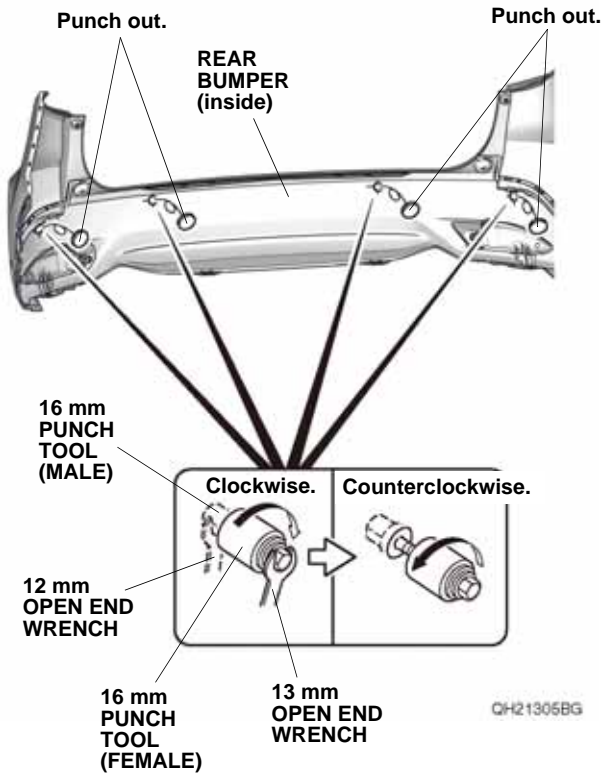
- With the punch tool snug against the bumper, make sure to rotate the male portion of the punch tool 360° clockwise.
- Always hold the punch tool perpendicular to the bumper while turning the wrenches.



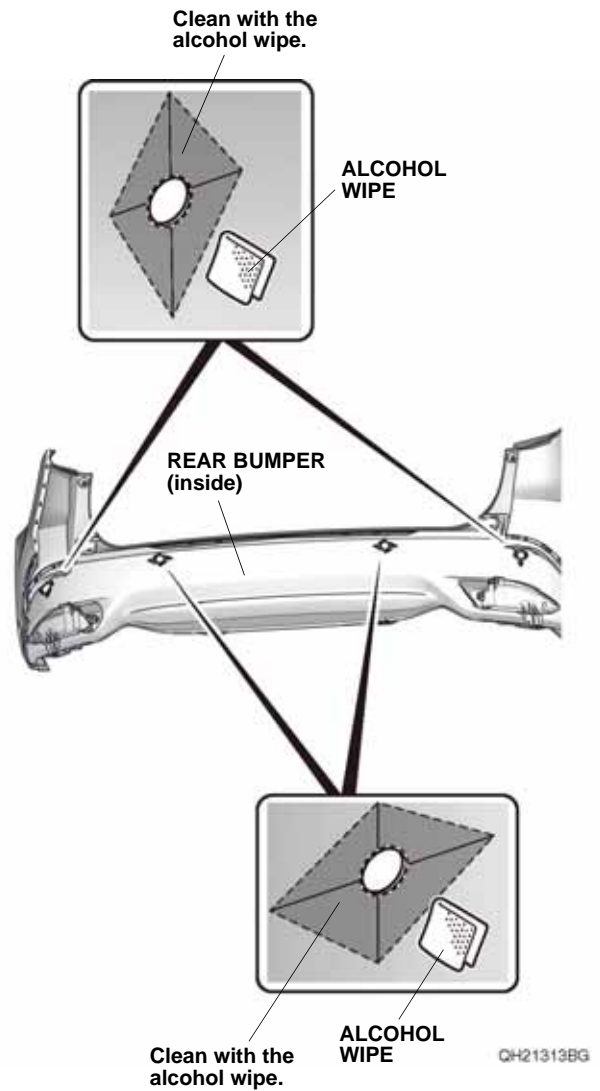
113. Holding the 16 mm punch tool (male) with a 12 mm open end wrench, turn the 16 mm punch tool (female) clockwise with 13 mm open end wrench to punch out the rear bumper as shown.

NOTE:

- Always hold the punch tool perpendicular to the bumper while turning the wrenches.
- Make sure to remove the punched out material after every hole.



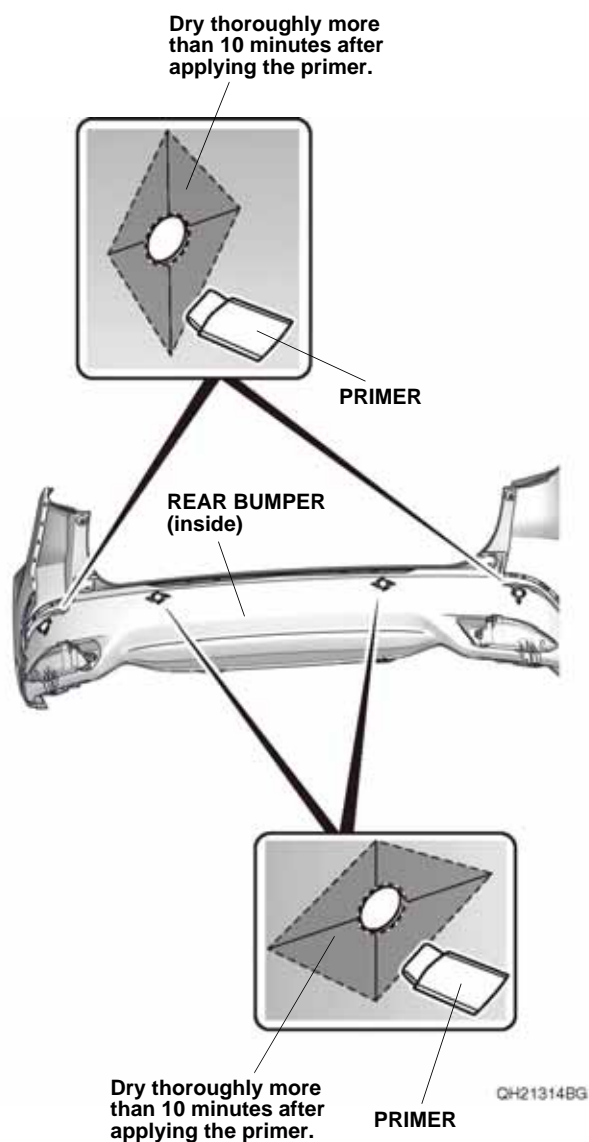
114. Using an alcohol wipe, thoroughly clean the rear bumper where the four retainers B will attach.



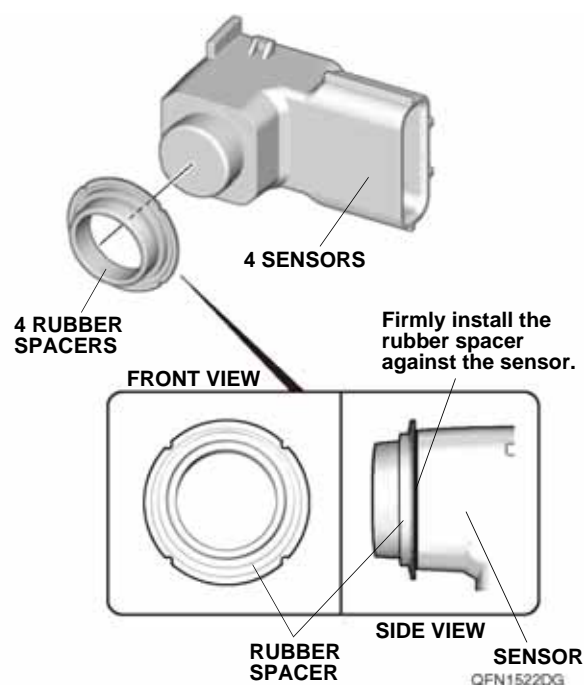
115. Apply the primer to the rear bumper.

NOTE:

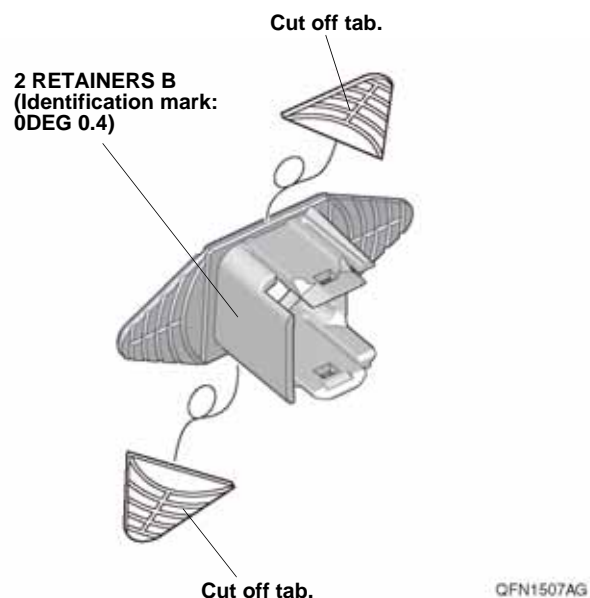
- Apply the primer evenly.
- Be careful not to apply the primer anywhere except the indicated area.
- Do not apply additional primer.
- Apply the primer, and let it dry for at least 10 minutes.
- Attach the rear retainers within 24 hours after applying the primer.



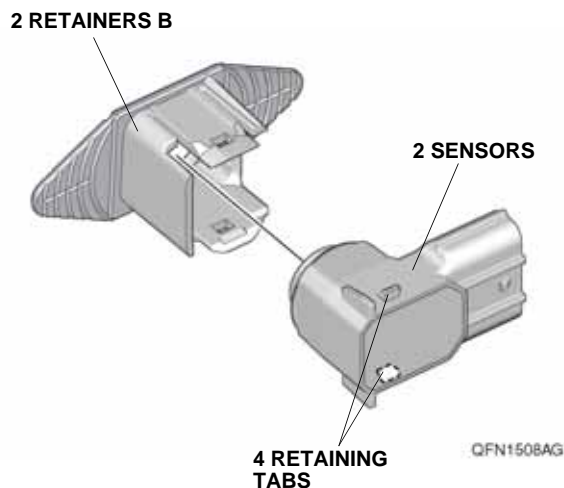
116. Install the four rubber spacers to the four sensors as shown.



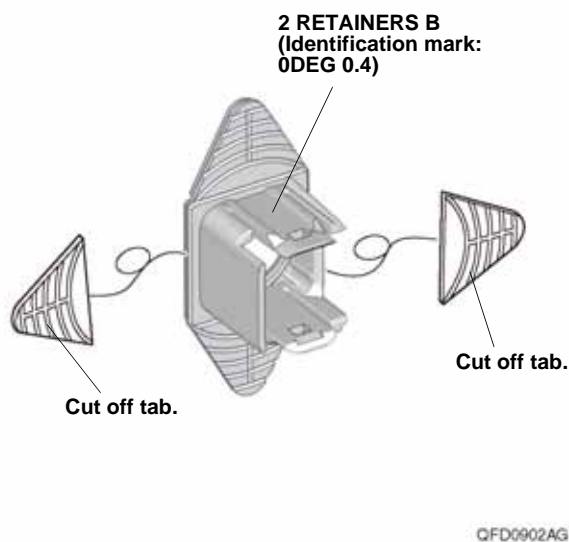
117. Using diagonal cutters, cut the tabs off the two retainers B as shown. Remove any burrs.



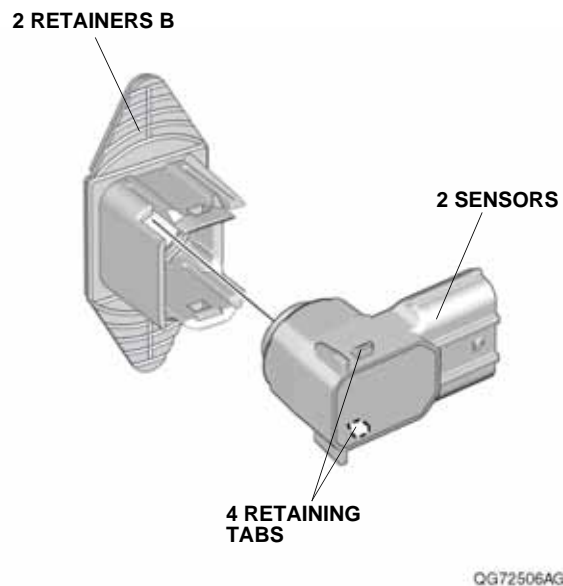
118. Install the two sensors to the two retainers B.



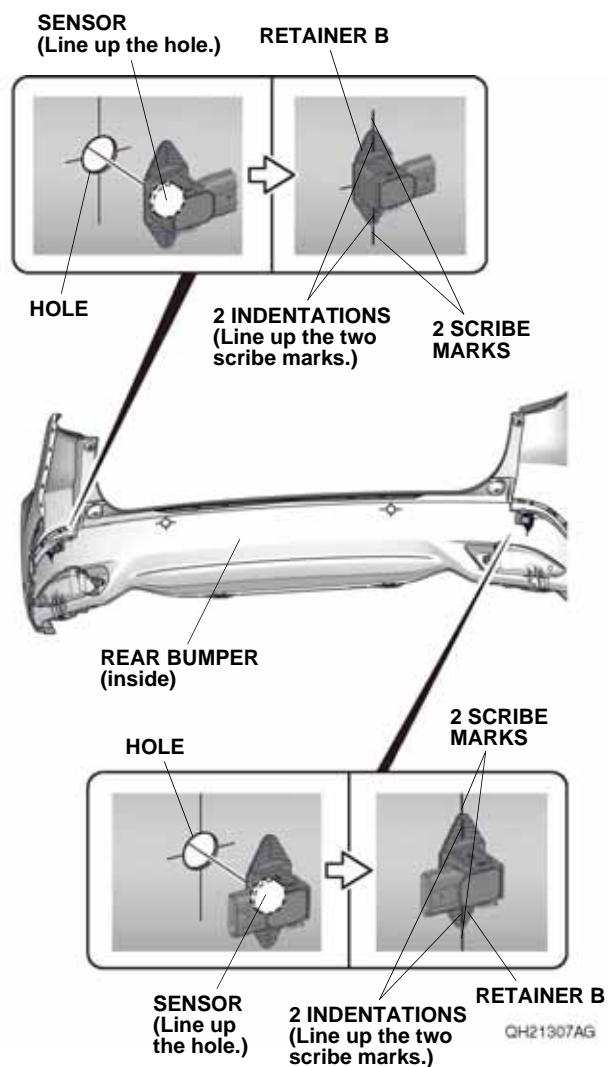
119. Using diagonal cutters, cut the tabs off the two retainers B as shown. Remove any burrs.



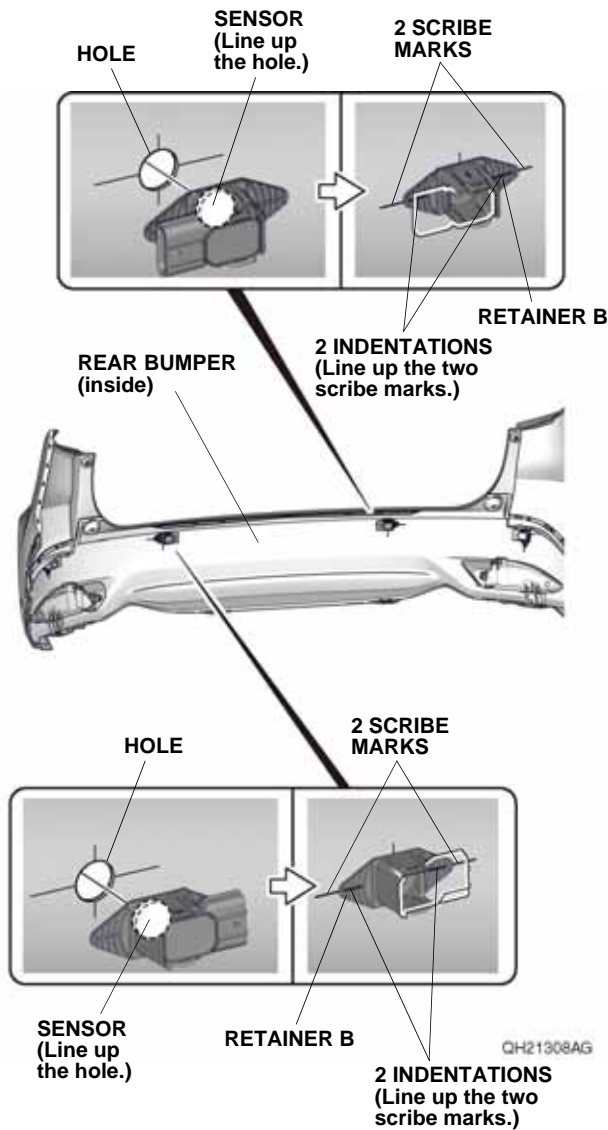
120. Install the two sensors to the two retainers B.



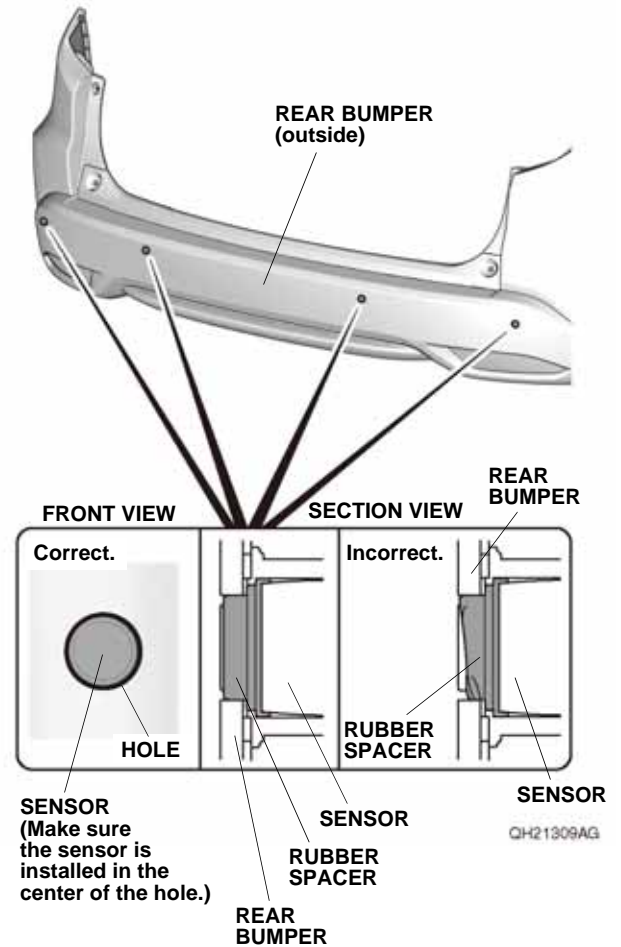
121. Line up the two sensors and two retainers B to the rear bumper as shown.



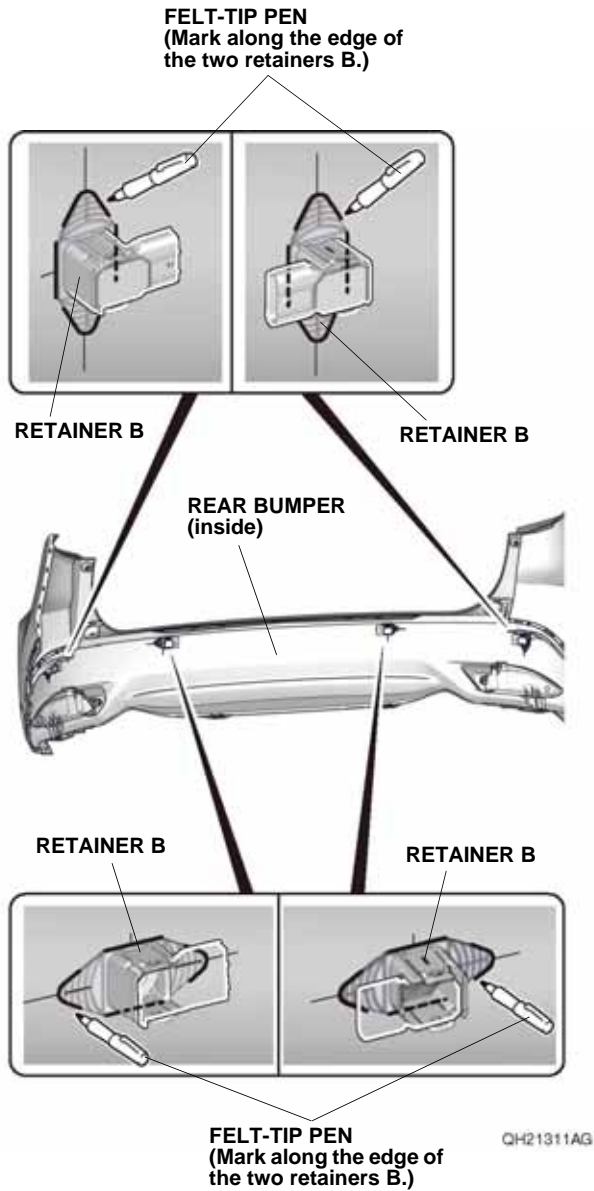
122. Line up the two sensors and two retainers B to the rear bumper as shown.



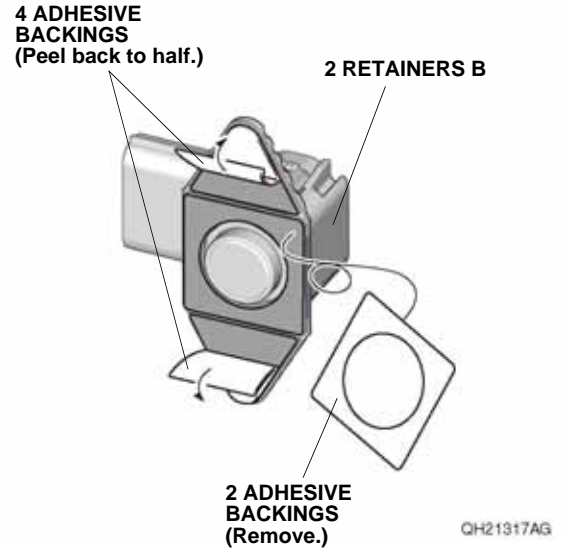
123. Make sure the four sensors are installed properly.



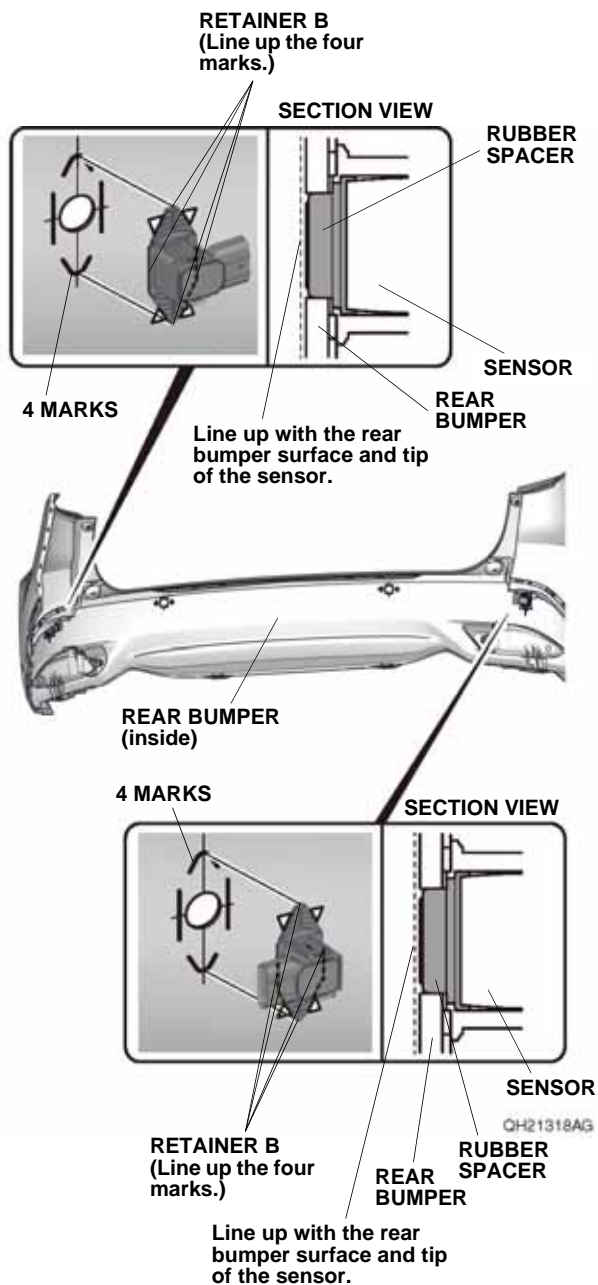
124. Using a felt-tip pen, mark the rear bumper as shown.



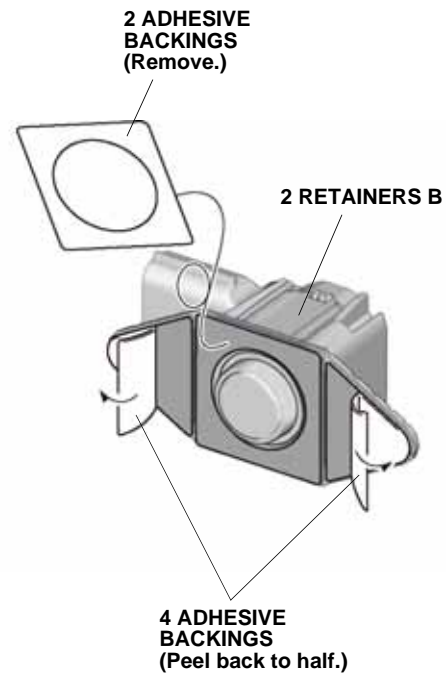
125. Remove the two adhesive backings and peel back the four adhesive backings as shown.



126. Attach the two retainers B to the rear bumper as shown.

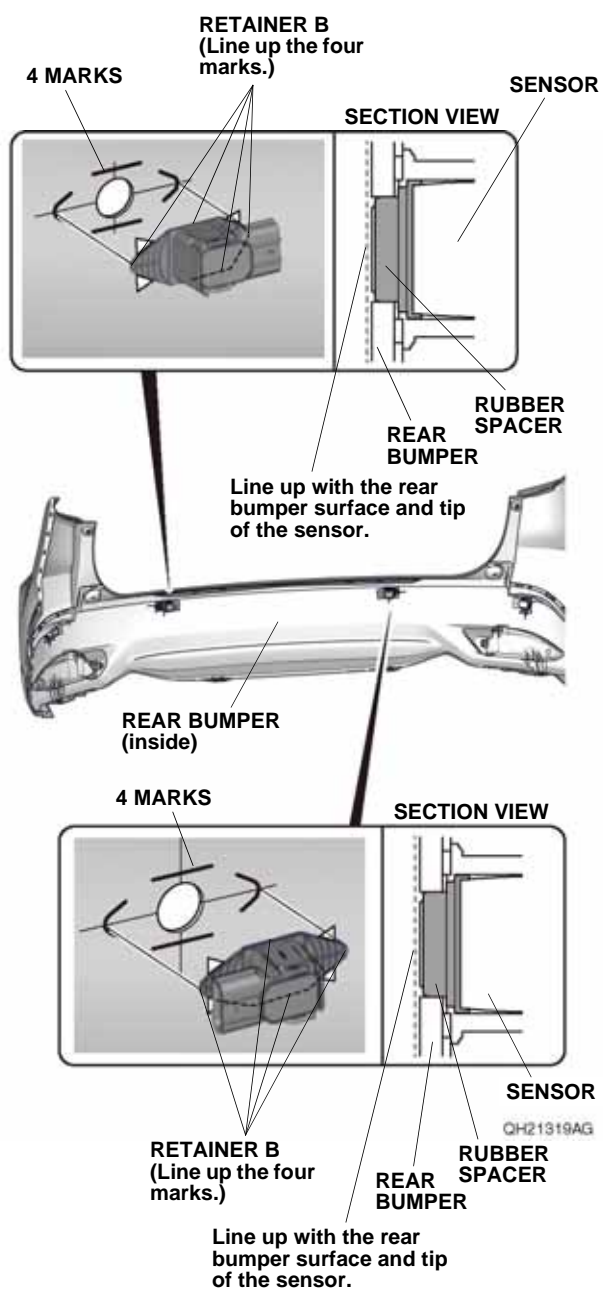


127. Remove the two adhesive backings and peel back the four adhesive backings as shown.

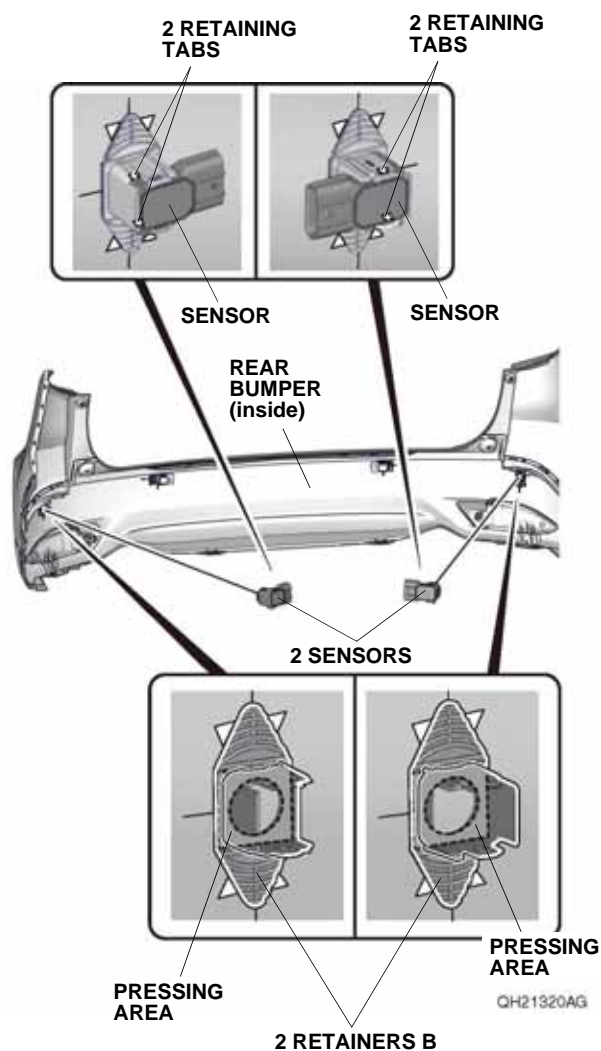


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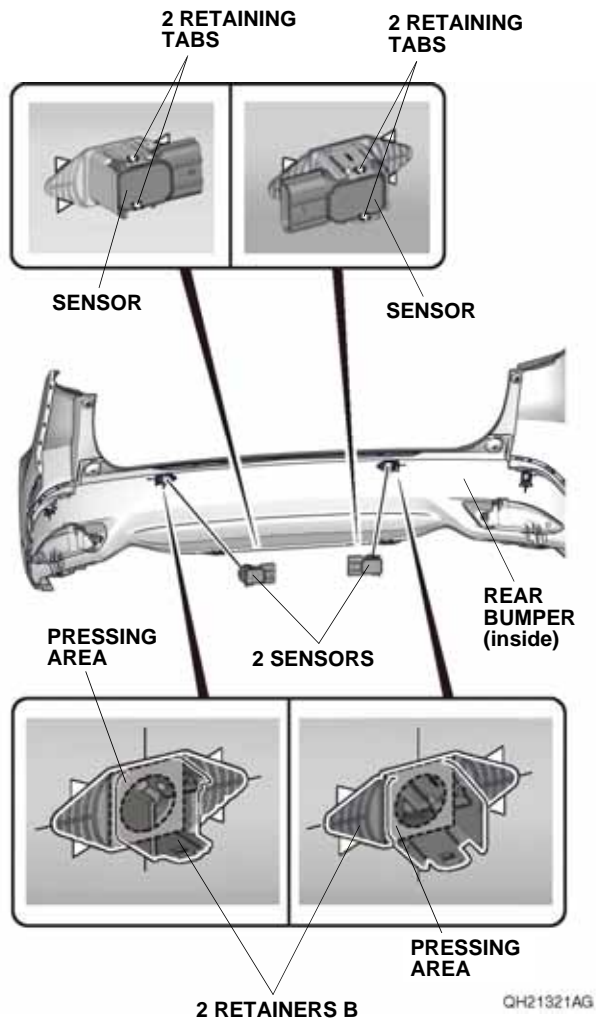
128. Attach the two retainers B to the rear bumper as shown.



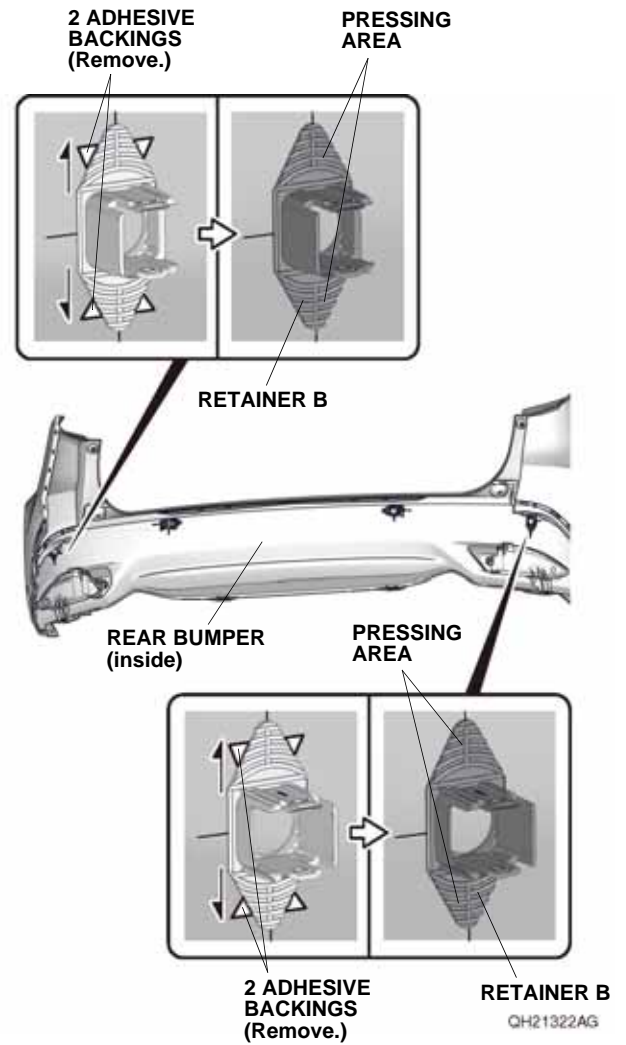
129. Remove the two sensors, and firmly press the two retainers B against the rear bumper.



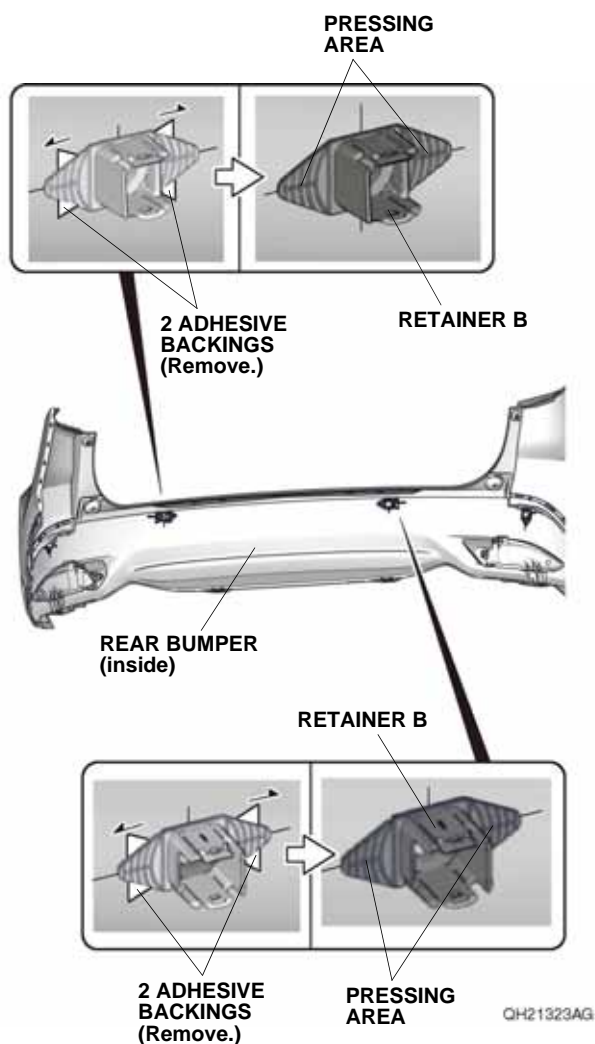
130. Remove the two sensors, and firmly press the two retainers B against the rear bumper.



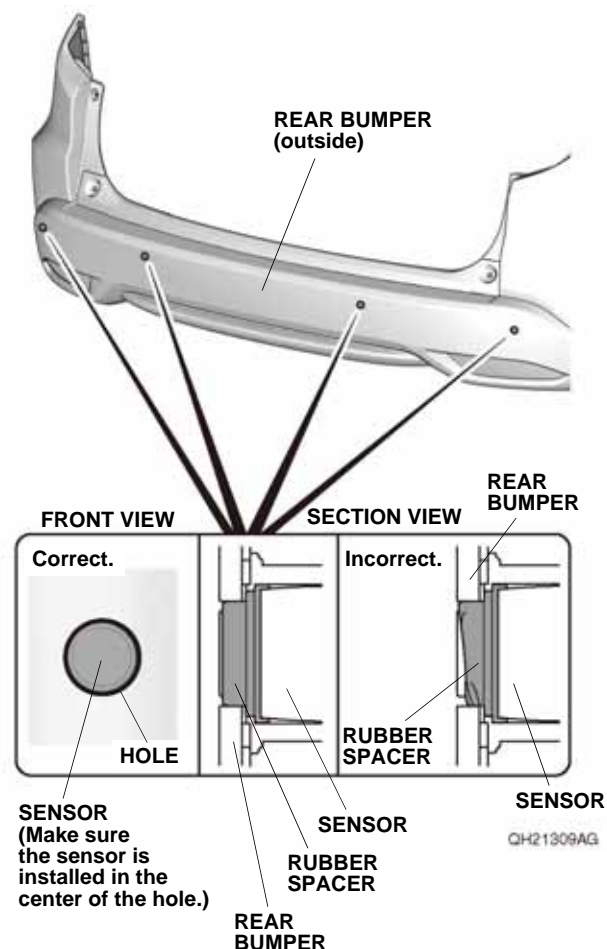
131. Remove the four adhesive backings, and firmly press the two retainers B against the rear bumper. Install the two sensors.



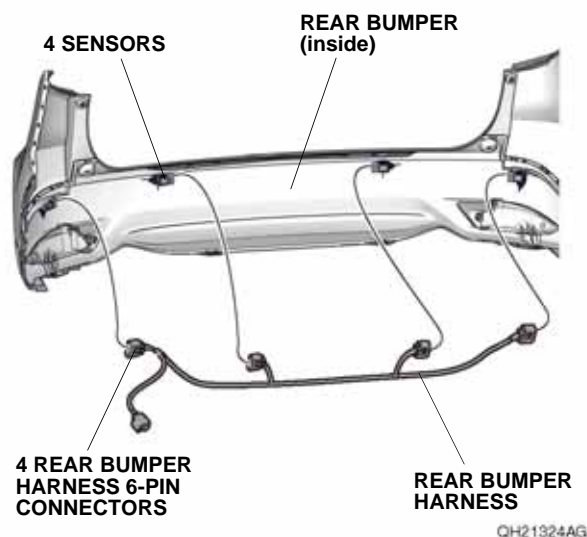
132. Remove the four adhesive backings, and firmly press the two retainers B against the rear bumper. Install the two sensors.



133. Make sure the four sensors are installed properly.



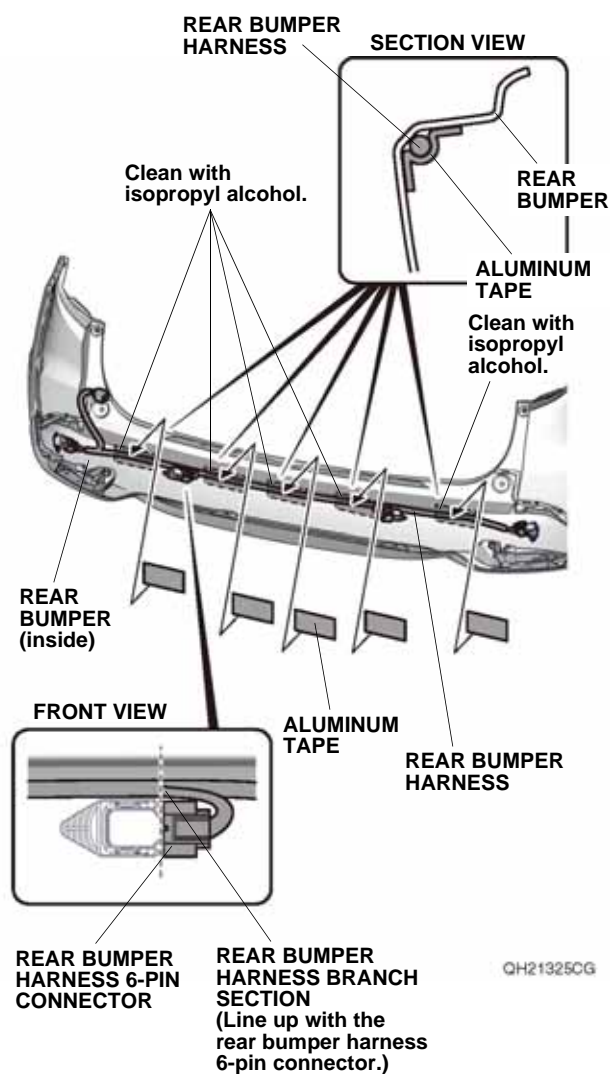
134. Plug the four rear bumper harness 6-pin connectors into the four sensors.



If the vehicle is a 2WD model without smart entry, go to step 137; otherwise, continue with step 135.

2WD models with smart entry or 4WD models

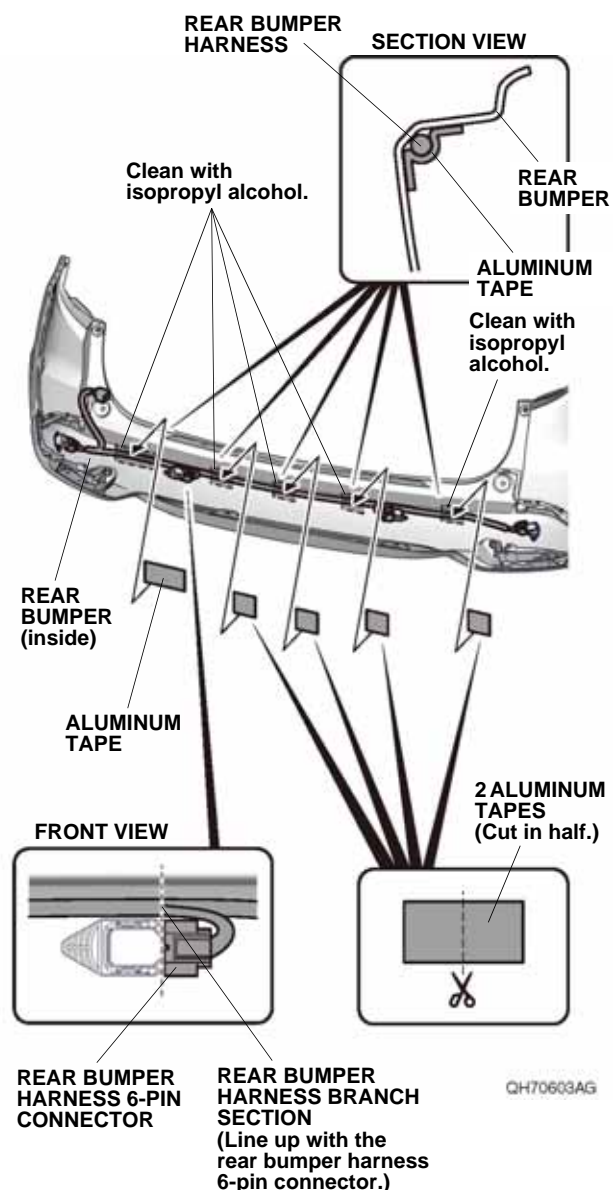
135. Using isopropyl alcohol on a shop towel, thoroughly clean the rear bumper where the aluminum tape will attach.



136. Line up the branch section of the rear bumper harness with the rear bumper harness 6-pin connector. Secure the rear bumper harness to the rear bumper with five pieces of aluminum tape as shown. Go to step 140.

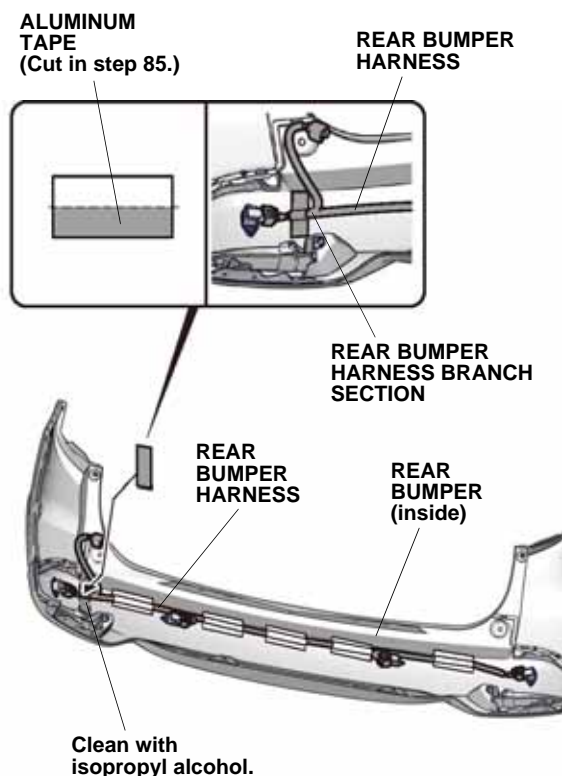
2WD models without smart entry

137. Using isopropyl alcohol on a shop towel, thoroughly clean the rear bumper where the aluminum tape will attach.



138. Using scissors, cut two pieces of aluminum tape in half.
139. Line up the branch section of the rear bumper harness with the rear bumper harness 6-pin connector. Secure the rear bumper harness to the rear bumper with one piece of aluminum tape and four pieces of aluminum tape as shown.

140. Using isopropyl alcohol on a shop towel, thoroughly clean the rear bumper where the aluminum tape will attach.



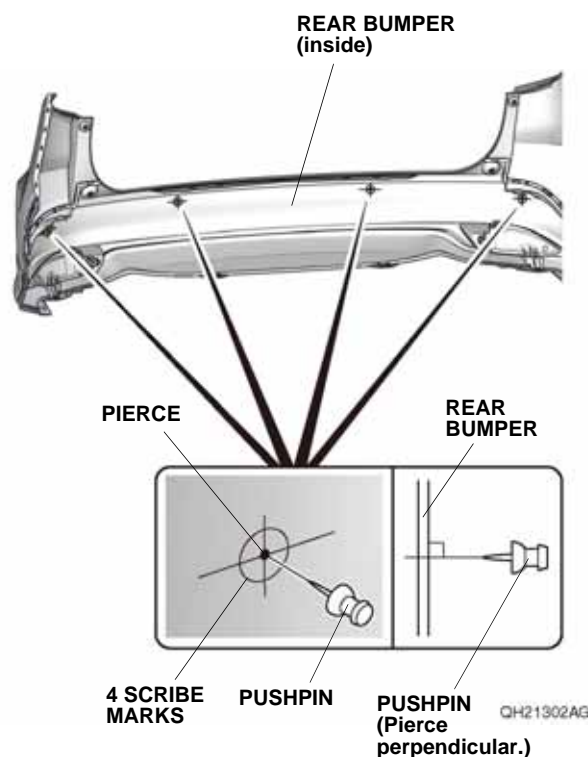
QH42401BG

141. Secure the rear bumper harness to the rear bumper with one piece of aluminum tape cut in step 85 as shown. Go to step 167.

Touring or Sport grade

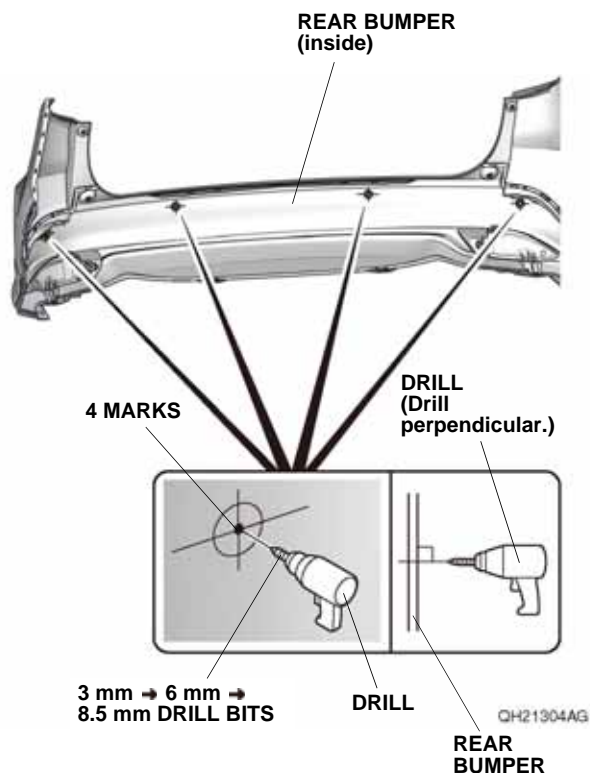
142. Mark the inside of the rear bumper:

- Locate the four scribe marks on the inside of the rear bumper.
 - Using a pushpin, pierce the rear bumper at the center of the four scribe marks.
- NOTE: Make sure to pierce the scribe marks perpendicular to the rear bumper.



143. While wearing eye protection, drill the four pierced marks to 8.5 mm from the inside of the rear bumper.

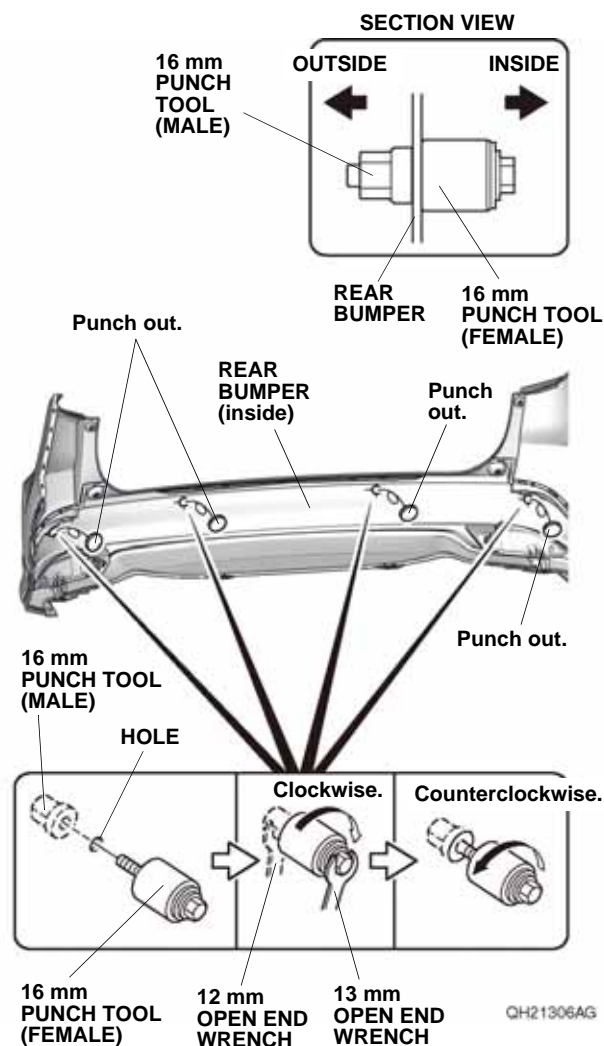
- First, drill with a 3 mm drill bit, then follow with a 6 mm drill bit, and finish with an 8.5 mm drill bit.
- NOTE: Make sure to drill perpendicular to the rear bumper. Remove any burrs.



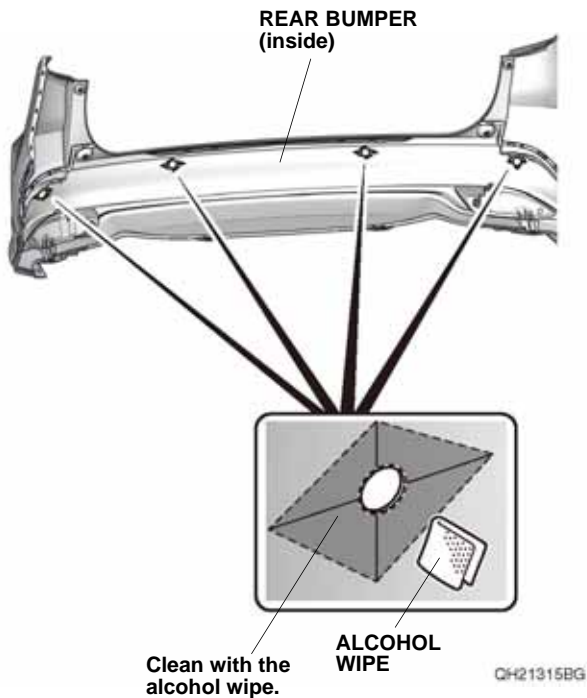
144. Using a 16 mm punch tool, punch out the four rear bumper holes as shown.

NOTE:

- Always hold the punch tool perpendicular to the bumper while turning the wrenches.
- Make sure to remove the punched out material after every hole.



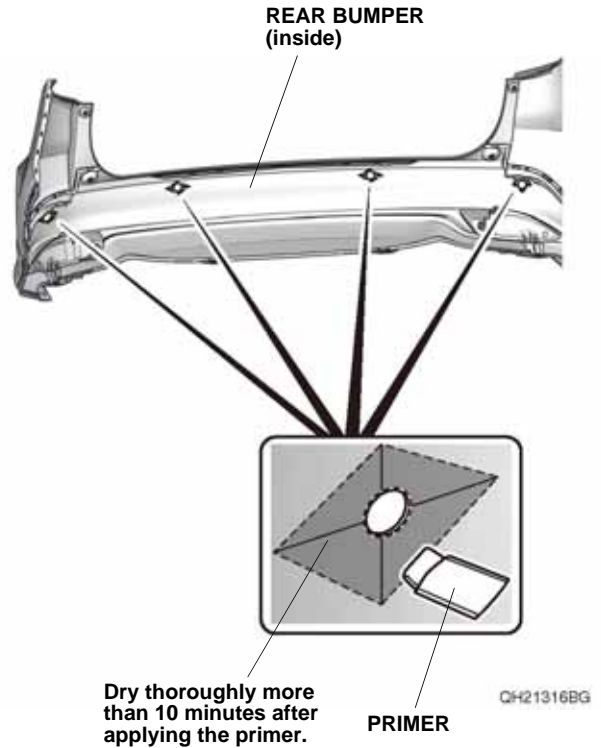
145. Using an alcohol wipe, thoroughly clean the rear bumper where the four retainers C will attach.



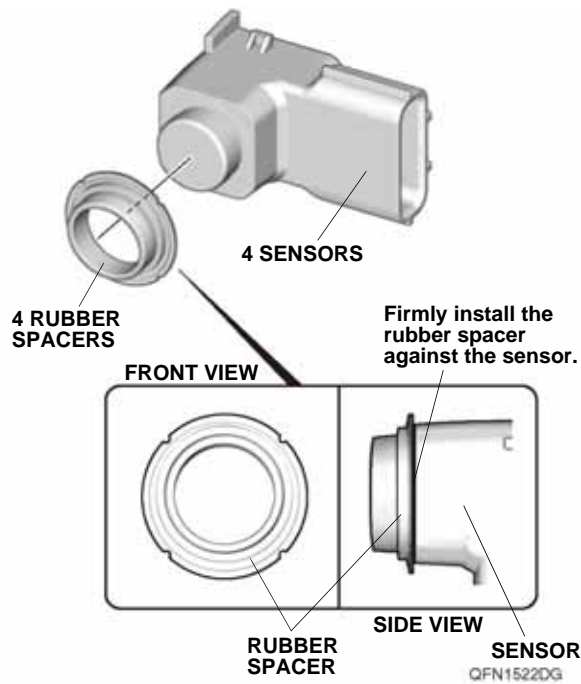
146. Apply the primer to the rear bumper.

NOTE:

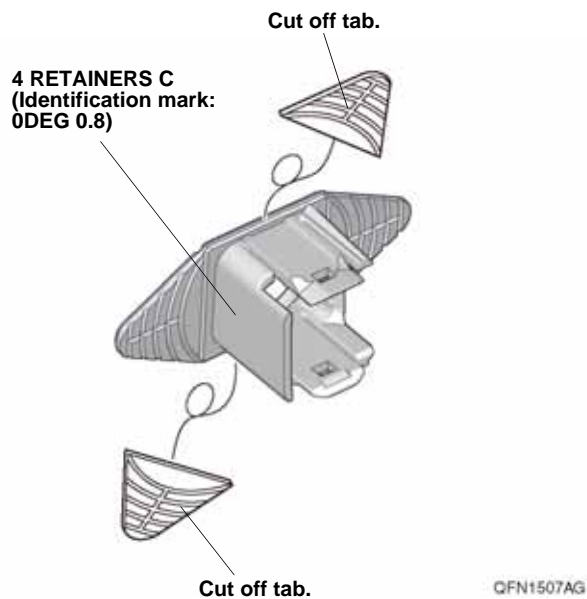
- Apply the primer evenly.
- Be careful not to apply the primer anywhere except the indicated area.
- Do not apply additional primer.
- Apply the primer, and let it dry for at least 10 minutes.
- Attach the rear retainers within 24 hours after applying the primer.



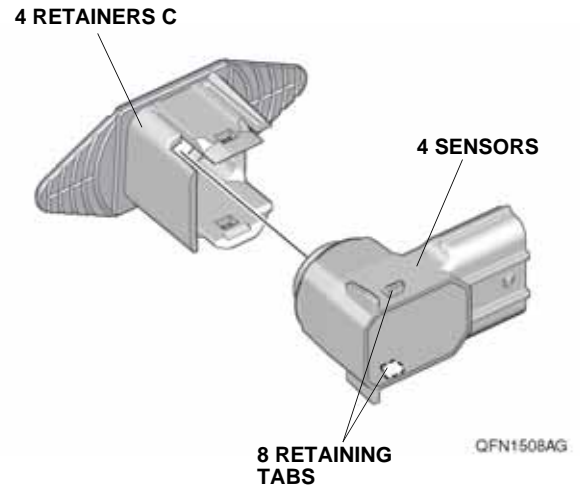
147. Install the four rubber spacers to the four sensors as shown.



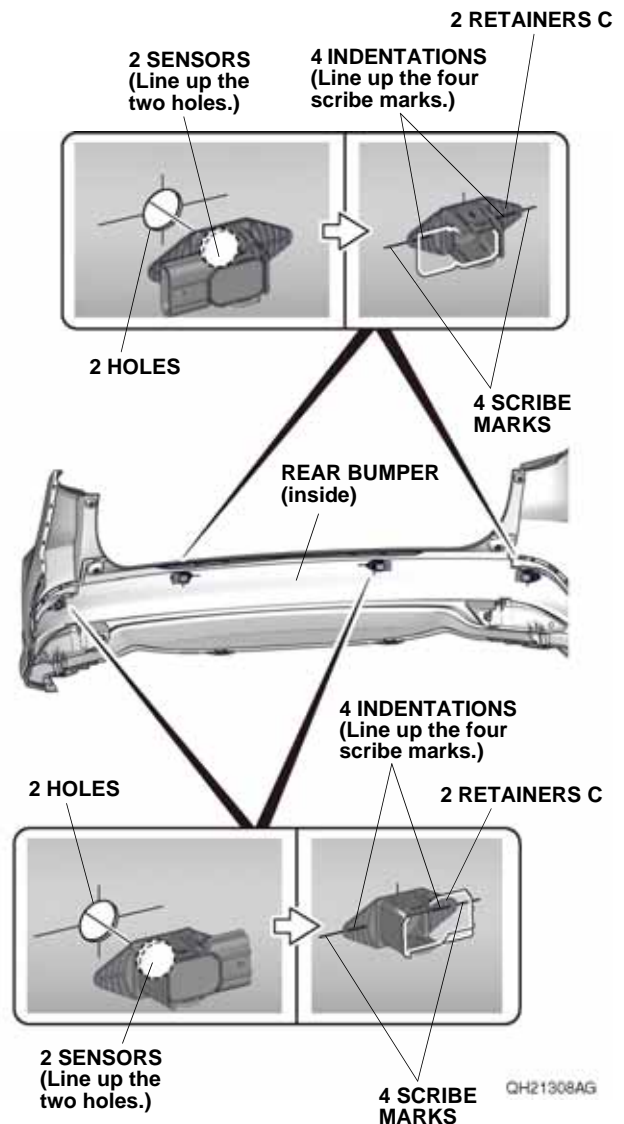
148. Using diagonal cutters, cut the tabs off the four retainers C as shown. Remove any burrs.



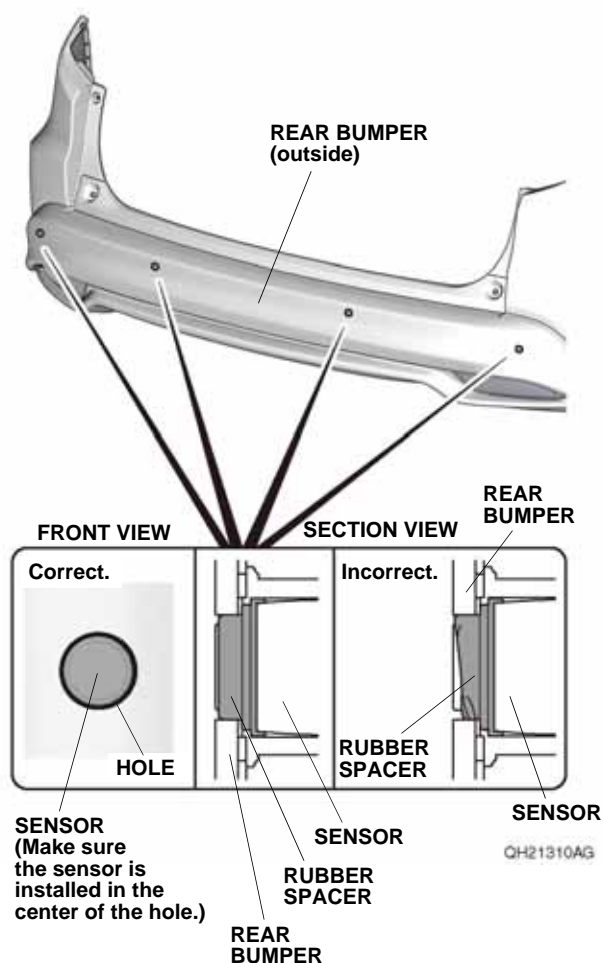
149. Install the four sensors to the four retainers C.



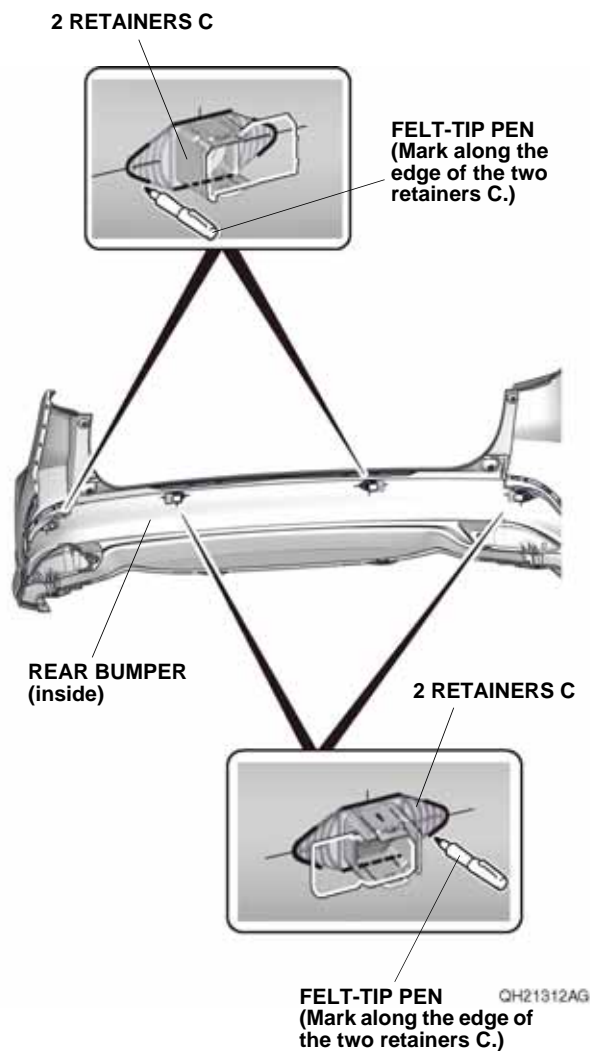
150. Line up the four sensors and four retainers C to the rear bumper as shown.



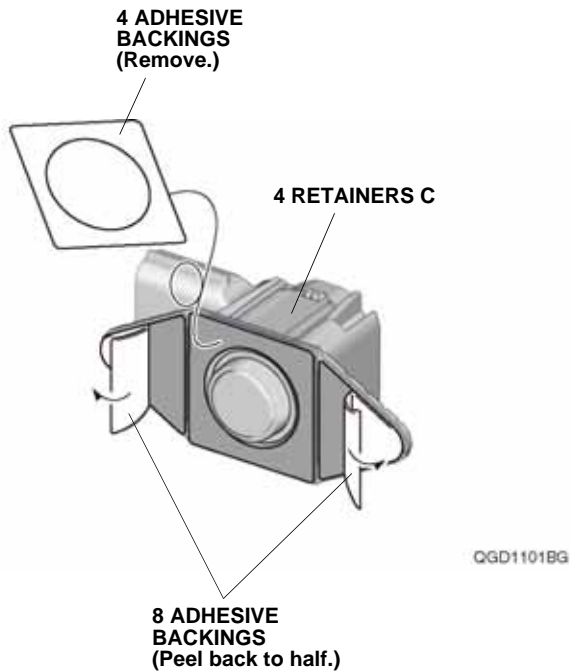
151. Make sure the four sensors are installed properly.



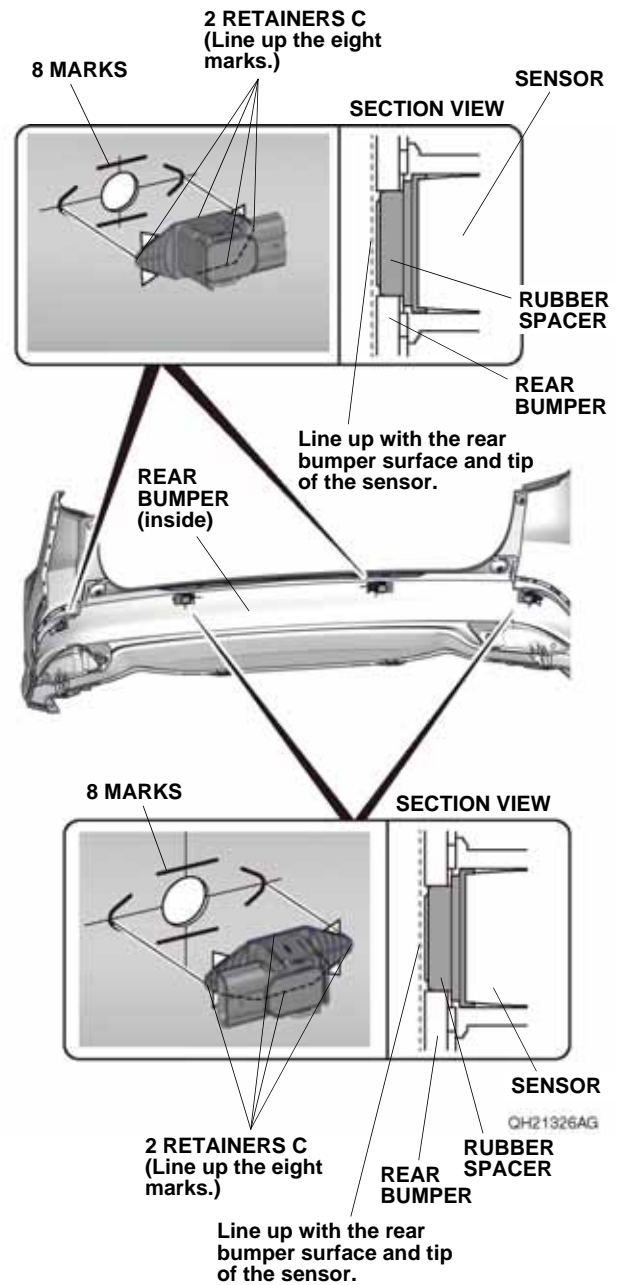
152. Using a felt-tip pen, mark the rear bumper as shown.



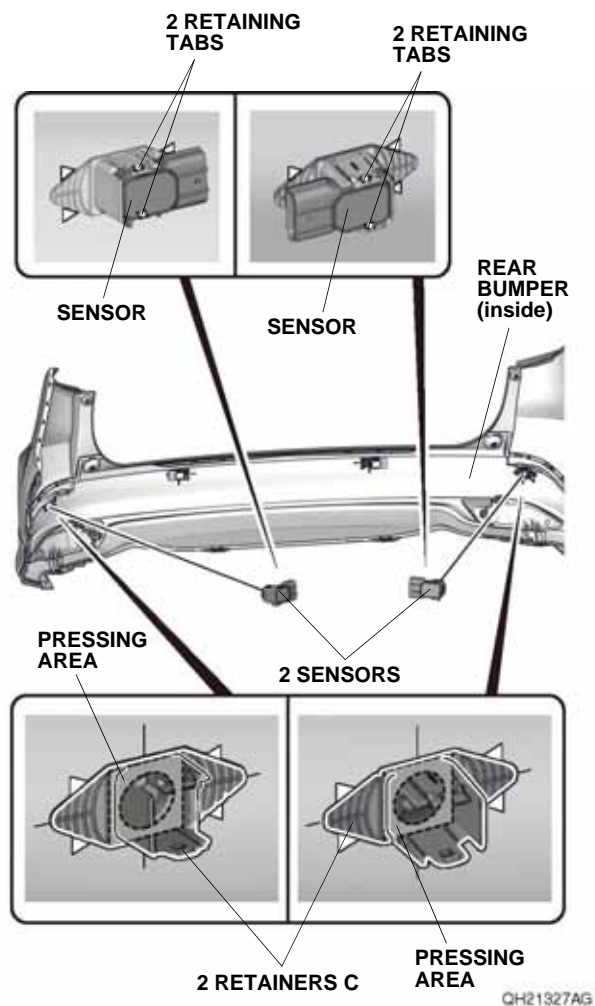
153. Remove the four adhesive backings and peel back the eight adhesive backings as shown.



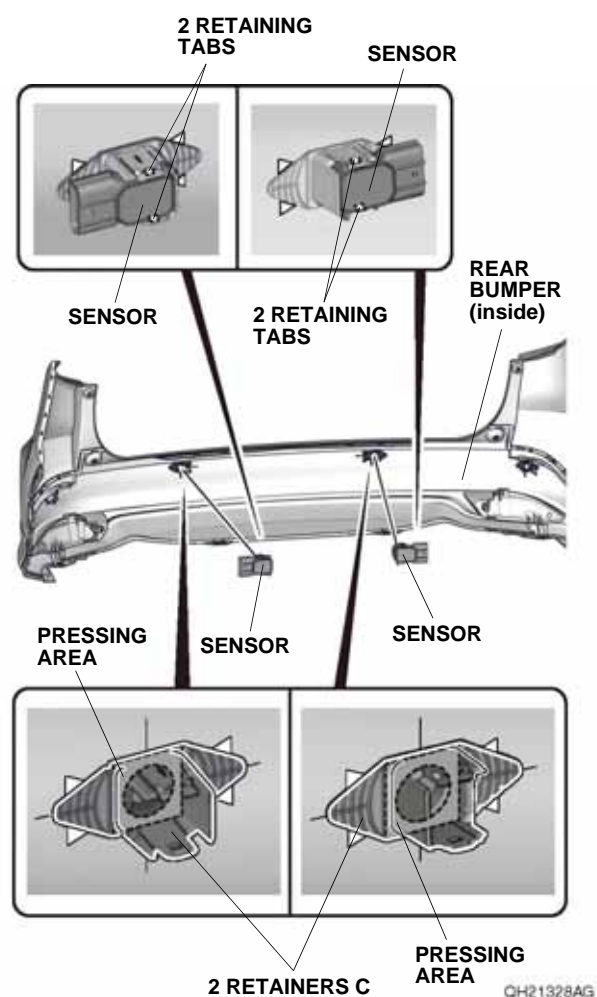
154. Attach the four retainers C to the rear bumper as shown.



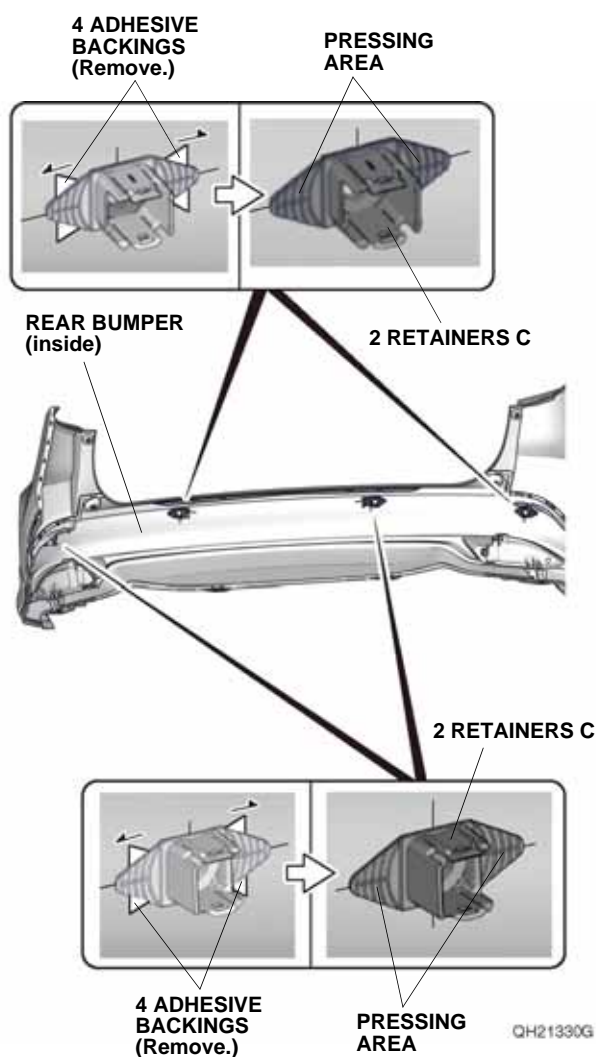
155. Remove the two sensors, and firmly press the two retainers C against the rear bumper.



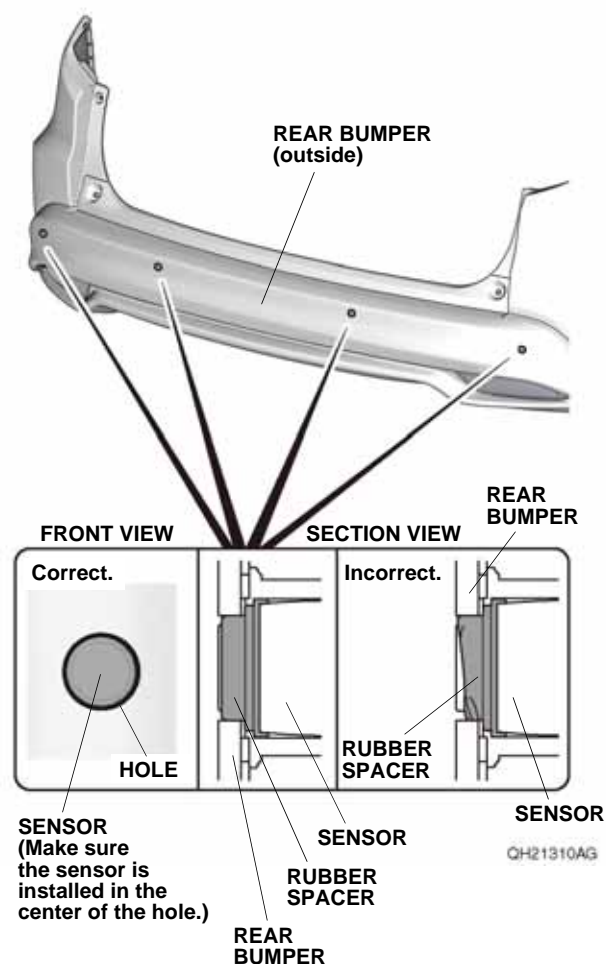
156. Remove the two sensors, and firmly press the two retainers C against the rear bumper.



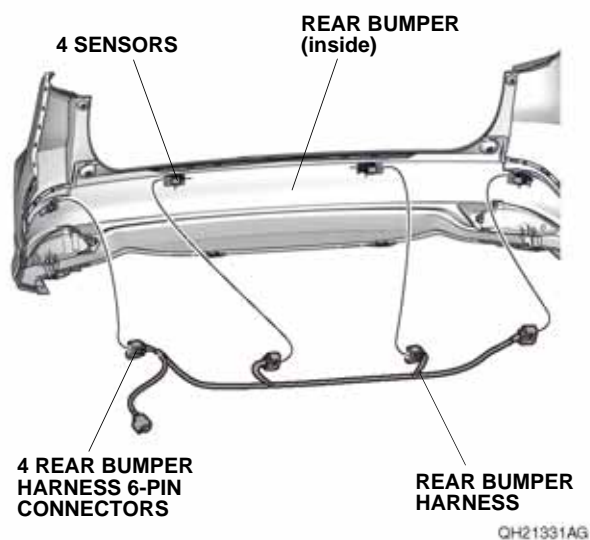
157. Remove the eight adhesive backings, and firmly press the four retainers C against the rear bumper. Install the four sensors.



158. Make sure the four sensors are installed properly.



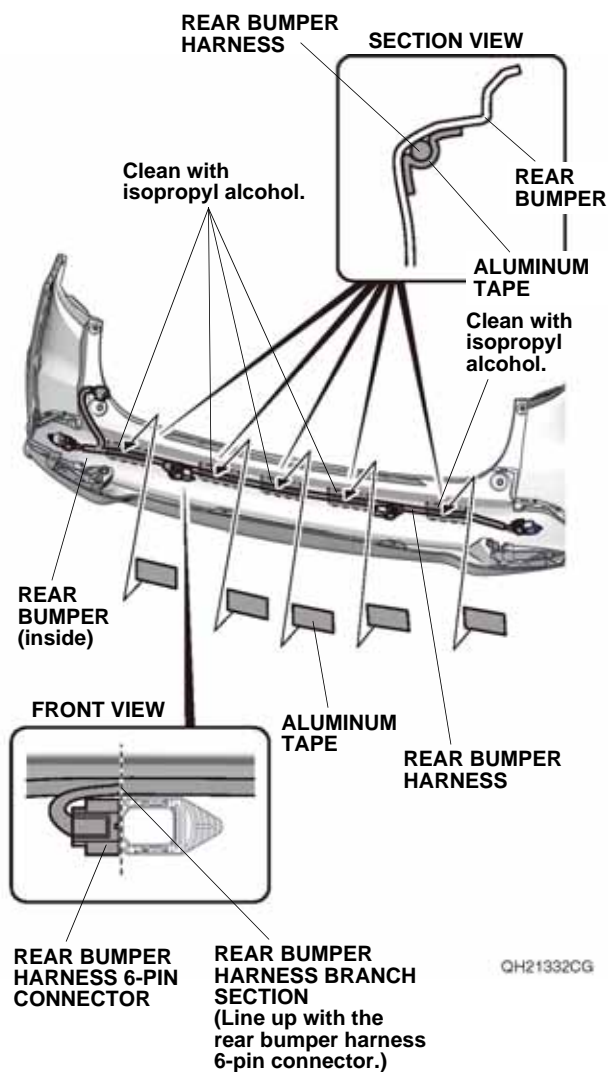
159. Plug the four rear bumper harness 6-pin connectors into the four sensors.



If the vehicle is a 2WD model without smart entry, go to step 162; otherwise, continue with step 160.

2WD models with smart entry or 4WD models

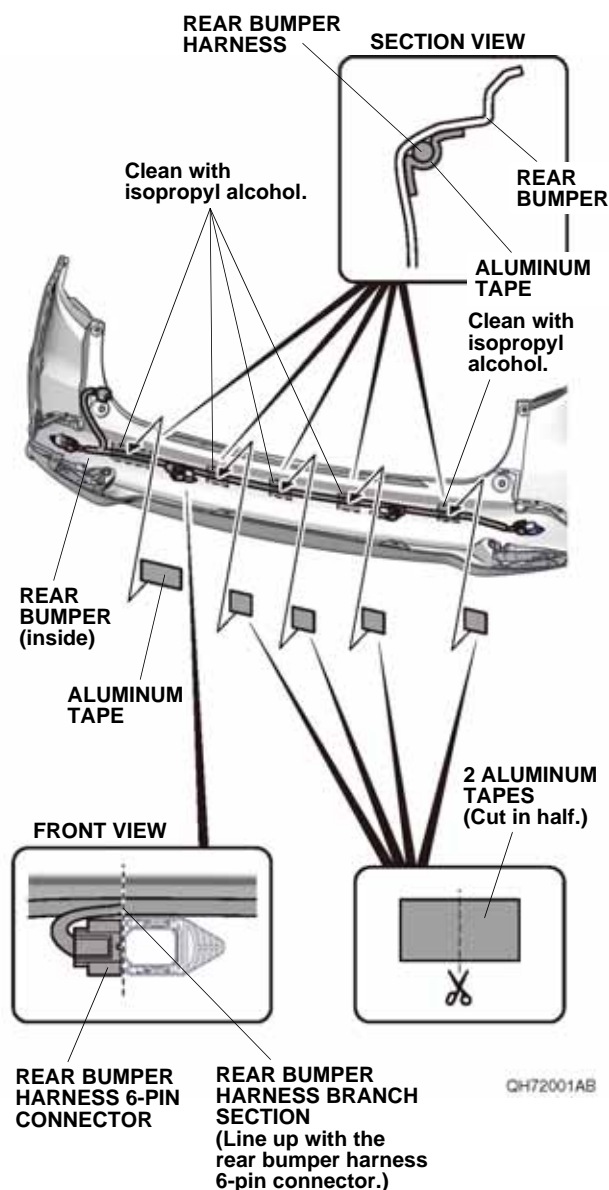
160. Using isopropyl alcohol on a shop towel, thoroughly clean the rear bumper where the aluminum tape will attach.



161. Line up the branch section of the rear bumper harness with the rear bumper harness 6-pin connector. Secure the rear bumper harness to the rear bumper with five pieces of aluminum tape as shown. Go to step 165.

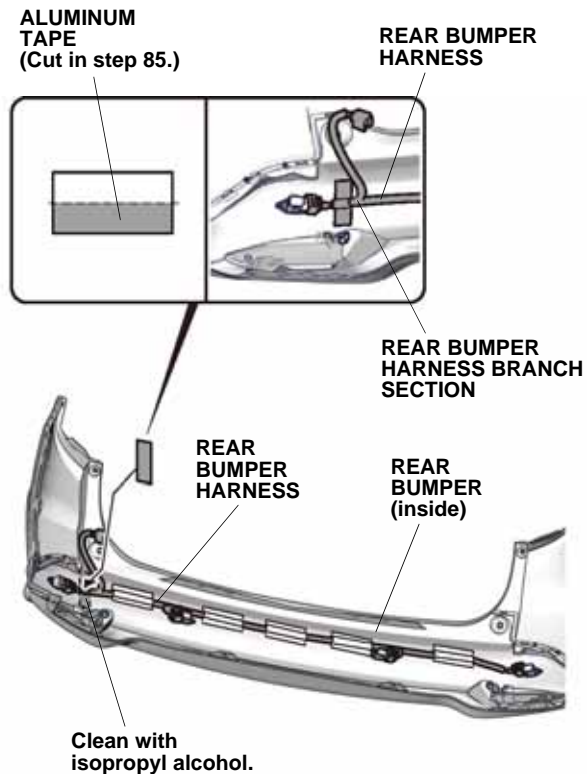
2WD models without smart entry

162. Using isopropyl alcohol on a shop towel, thoroughly clean the rear bumper where the aluminum tape will attach.



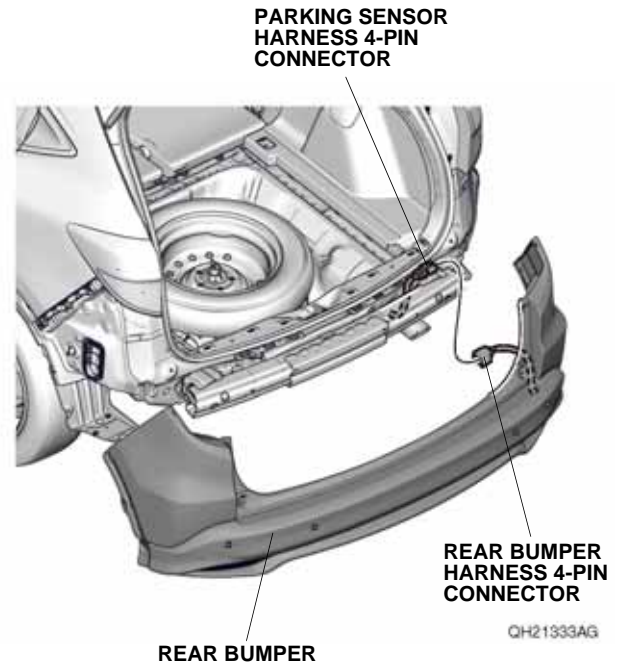
163. Using scissors, cut two pieces of aluminum tape in half.
164. Line up the branch section of the rear bumper harness with the rear bumper harness 6-pin connector. Secure the rear bumper harness to the rear bumper with one piece of aluminum tape and four pieces of aluminum tape as shown.

165. Using isopropyl alcohol on a shop towel, thoroughly clean the rear bumper where the aluminum tape will attach.



166. Secure the rear bumper harness to the rear bumper with one piece of aluminum tape cut in step 85 as shown.

167. With the help of an assistant, bring the rear bumper close to the vehicle, and plug the rear bumper harness 4-pin connector into the parking sensor harness 4-pin connector. Install the rear bumper.



168. Check that all wire harnesses are routed properly and that all connectors are plugged in.
169. Install all removed parts.
170. Connect the negative cable to the battery.
171. Press and hold the audio unit power button for 2 seconds to restore the audio and navi (if equipped) system functions.
172. Set the clock on vehicles without navigation.
173. If necessary, restore the systems back to normal operation as described in the service information.

Initial Settings of the Parking Sensors

174. Turn the engine switch to ON.
175. Press the sensor switch ten times in ten seconds.
176. Check that the indicator in the sensor switch flashes.
177. Turn the engine switch to OFF.
178. Turn the engine switch to ON while pressing the sensor switch. Hold the sensor switch for about ten seconds, and check that the buzzer beeps for 2 seconds.

Check the Operation of the Parking Sensors

NOTE:

- Make sure the vehicle is on a flat surface.
- Make sure to press the brake pedal.

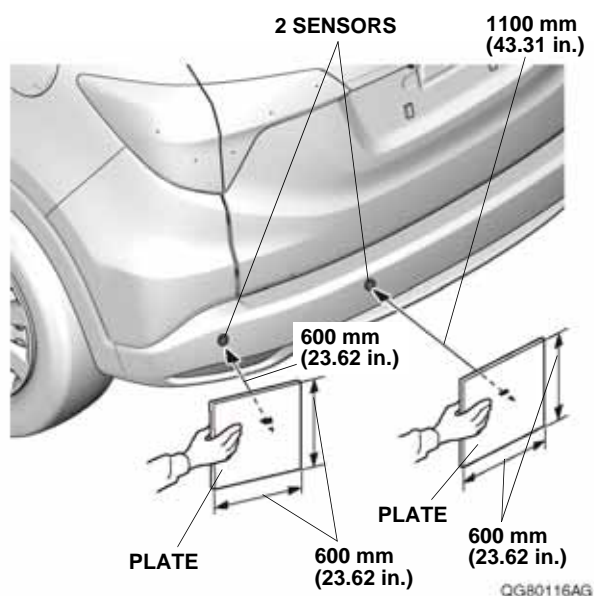
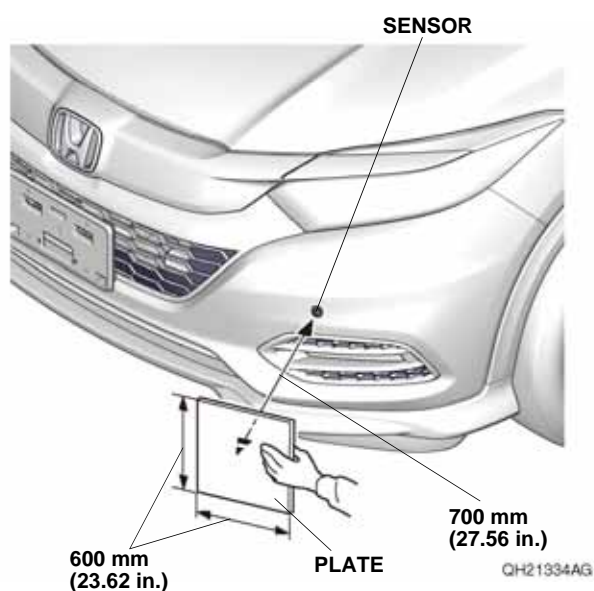
179. Turn the engine switch to ON.

180. Turn the sensor switch on and check that the switch indicator light comes on.

181. Release the parking brake, move the shift lever to R.

182. Bring a plate to each sensor and check that the buzzer beeps within the range indicated in the illustration (Repeat for all sensors).

NOTE: If the object position shown in the display differs from the actual position, repeat steps 174 through 178.



183. Check that the parking sensors work properly as described in the accessory user's information manual in this kit.