



HONDA INSTALLATION INSTRUCTIONS

Accessory
ENGINE BLOCK HEATER
P/N 08T44-SVB-100

Application
2019 INSIGHT

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JUNE 2018

PARTS LIST

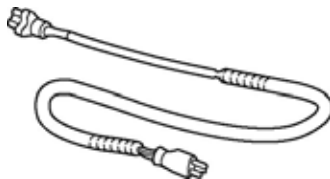
Engine block heater



Aluminum washer



Heater harness



Protective cap



15 Black wire ties



3 Wire ties with clip
(Not used)



5 Brown wire ties



TOOLS AND SUPPLIES REQUIRED

Phillips screwdriver

Ratchet

10 mm, 19 mm, and 24 mm Sockets

10 mm Open end wrench

Torque wrench

Diagonal cutters

Heavy gloves

Drain pan

Tape measure

White marker

Coolant (Honda Genuine Long Life Antifreeze/Coolant Type 2)

Blanket

Fender cover

Masking tape

Shop towel

Pushpin

Drill

3 mm and 5 mm Drill bits

13 mm Hole saw

File

Hacksaw

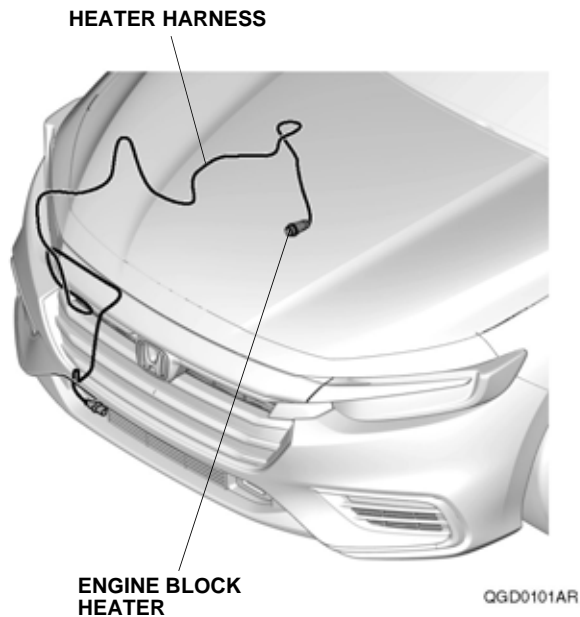
Eye protection (face shield, safety goggles, etc.)

5 mm Hex wrench

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)

Illustration of the Engine Block Heater Installed on the Vehicle



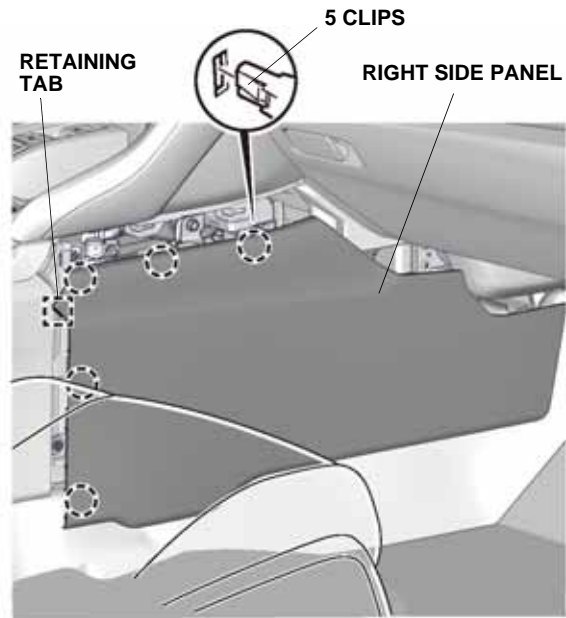
INSTALLATION

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.”

NOTICE:

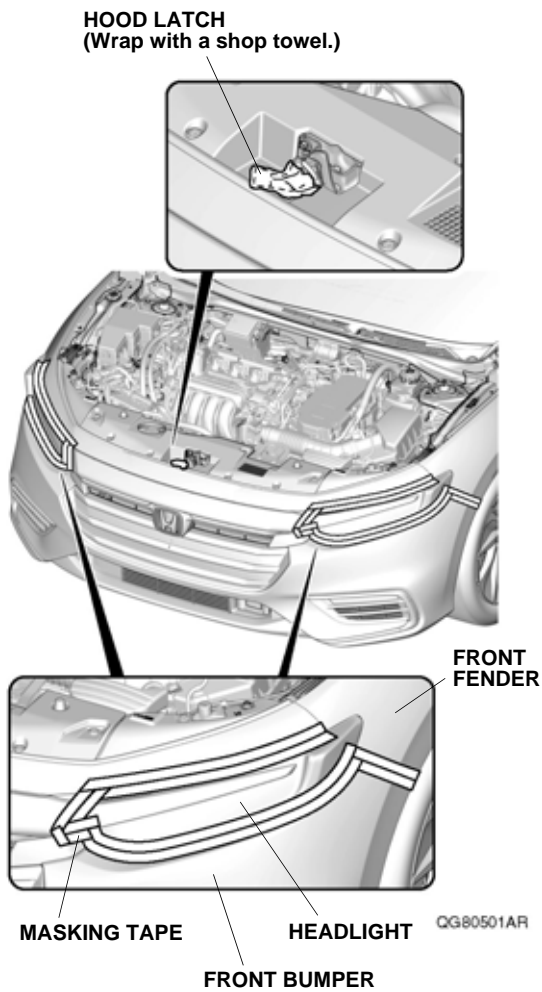
- Always use Honda Genuine Long Life Antifreeze/Coolant Type 2. Using a non-Honda coolant can result in corrosion, causing the cooling system to malfunction or fail.
- To avoid burning out the element, do not operate the engine block heater until it is installed in the vehicle and you have added coolant.

1. Remove the right side panel, and disconnect the negative cable from the battery.
NOTE: Wait 3 minutes after turning the power switch to OFF before disconnecting the battery.

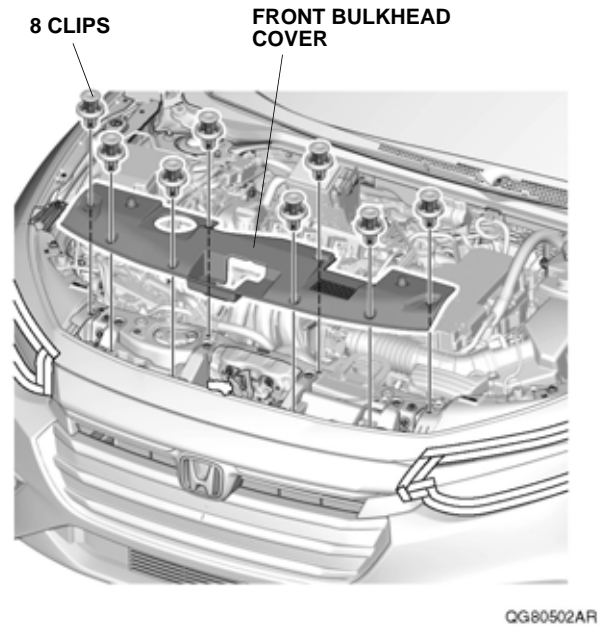


2. Allow the engine and all cooling system components to cool down.
3. Place the vehicle on a lift, and raise the vehicle off the ground.

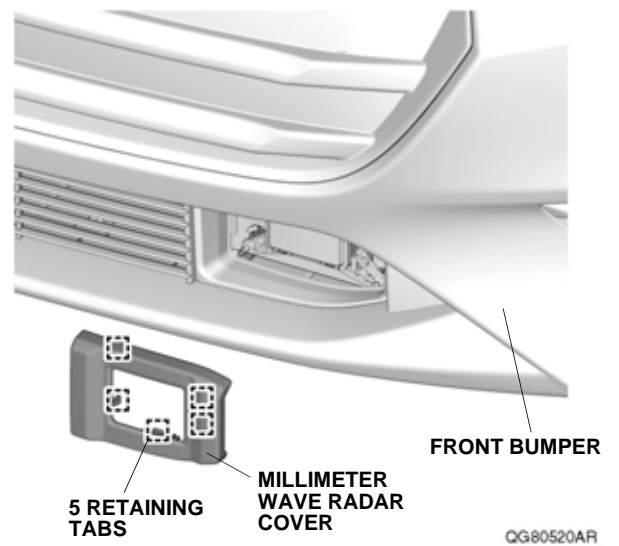
4. Remove the front bumper.
 - Apply masking tape as shown.
 - Wrap a shop towel around the hood latch.



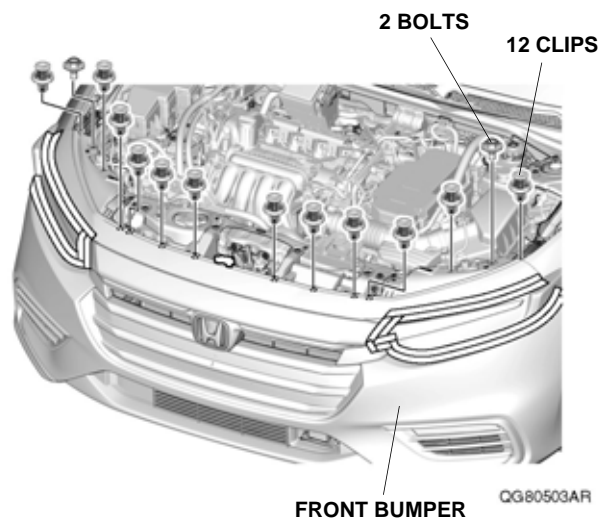
- Remove the front bulkhead cover.



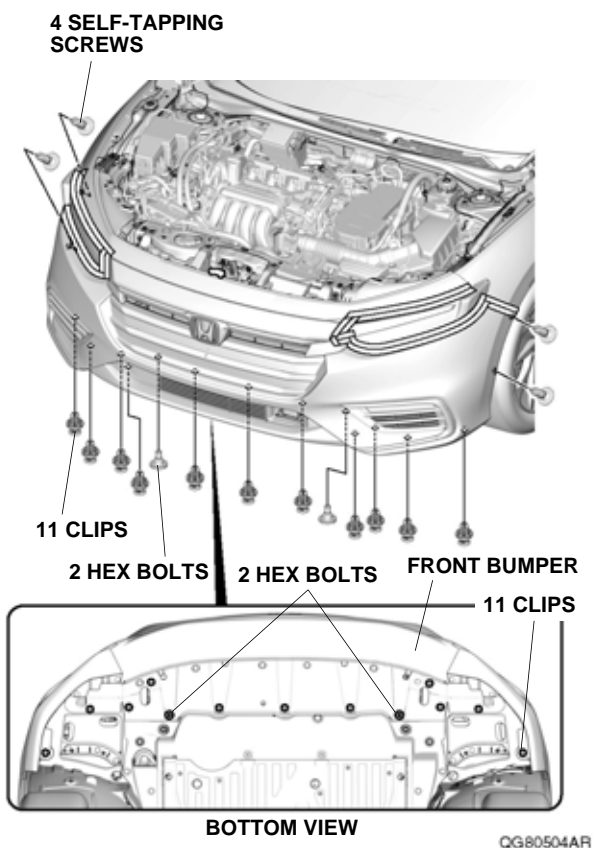
- Remove the millimeter wave radar cover.



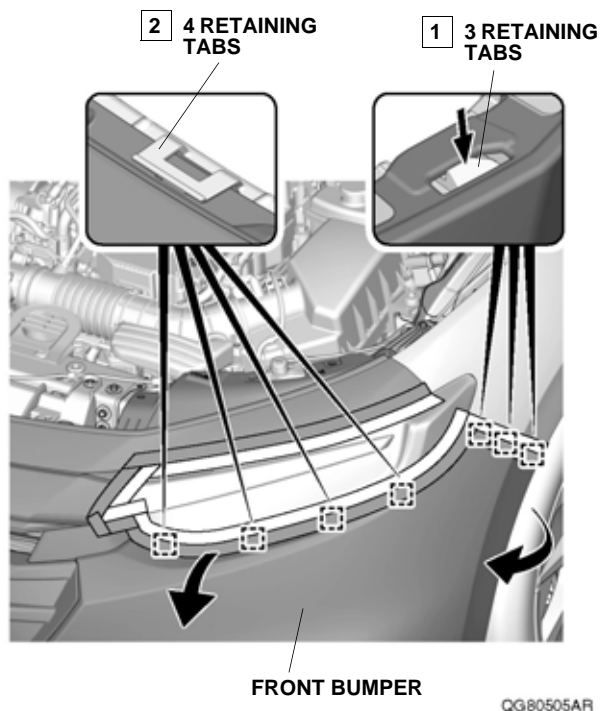
- Remove the two bolts and 12 clips.



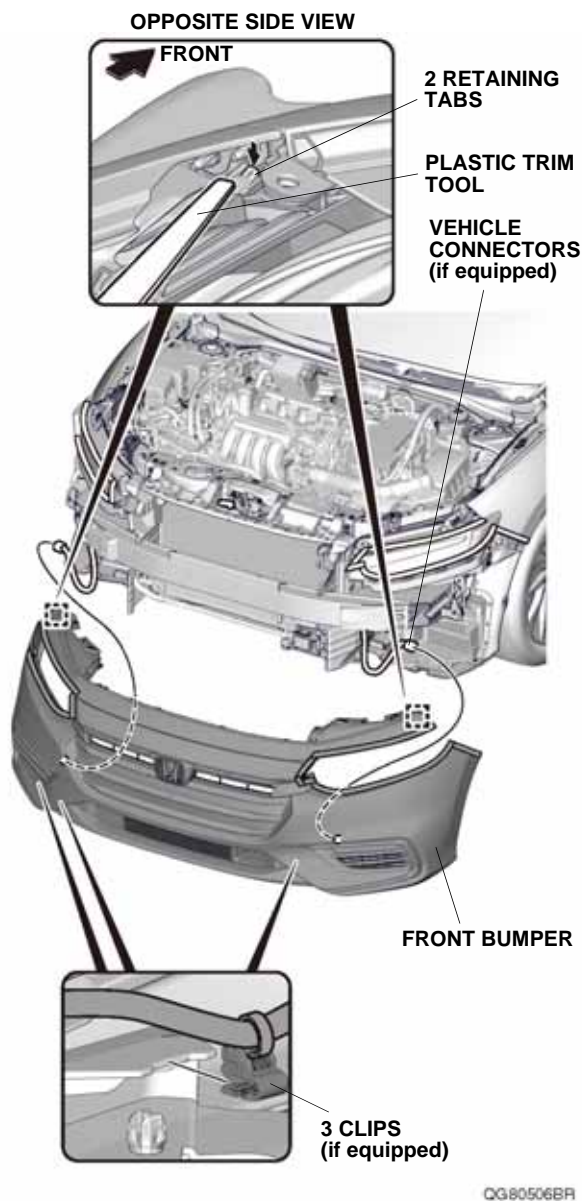
- Remove the four self-tapping screws, two hex bolts, and 11 clips.



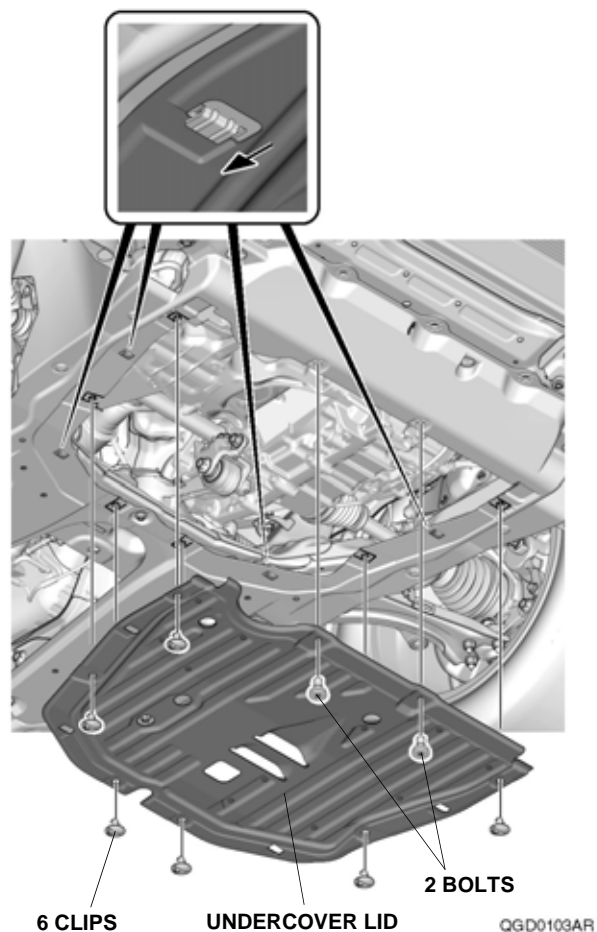
- With the help of an assistant, release the seven retaining tabs on each side.
NOTE: Make sure you remove and release the retaining tabs as shown.



- With the help of an assistant, remove the front bumper using a plastic trim tool, and unplug the vehicle connectors (if equipped). Place the front bumper on a blanket to prevent damage.

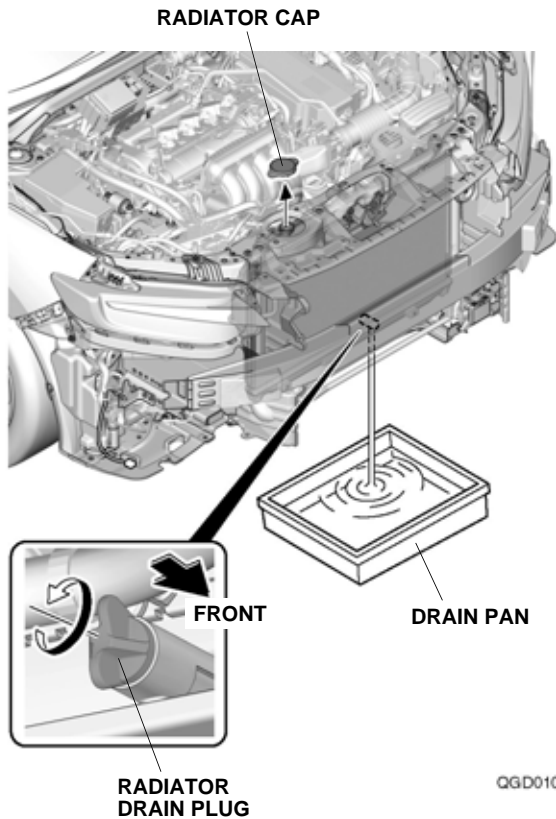


- Remove the undercover lid.



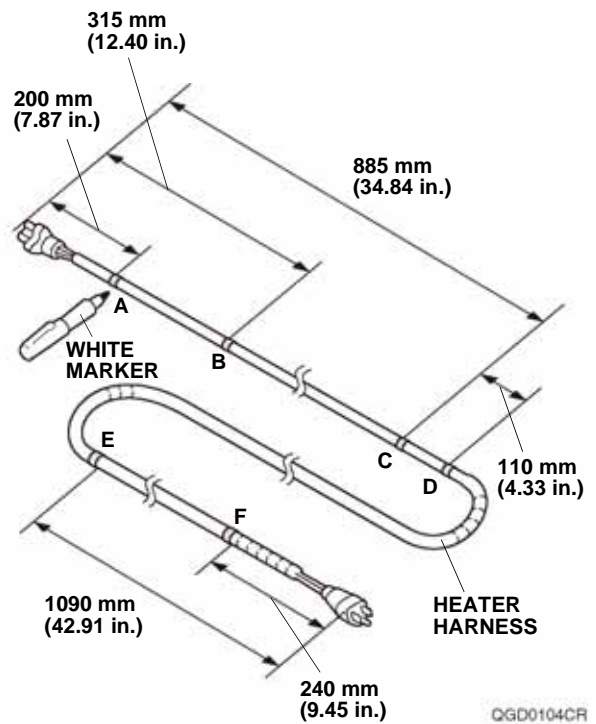
6. Place a clean drain pan under the radiator drain plug, then remove the drain plug from the bottom of the radiator to drain the coolant. Remove the radiator cap to increase the flow.

NOTICE: Radiator coolant will damage the paint. Quickly rinse any spilled coolant from the paint.

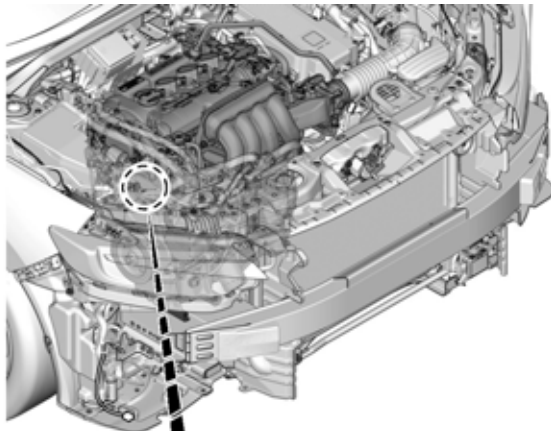


7. Drain the coolant completely, then install the radiator cap.

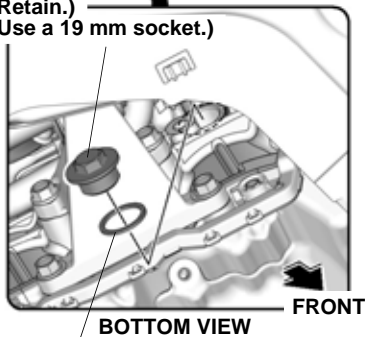
8. Using a white marker and tape measure, mark the heater harness as shown.



9. Remove the drain bolt and washer. Coolant remaining in the engine jackets will flow out of the bolt hole when the bolt is removed. Keep the drain bolt in case the engine block heater is removed.
NOTE: Use a new washer if the drain bolt is removed.



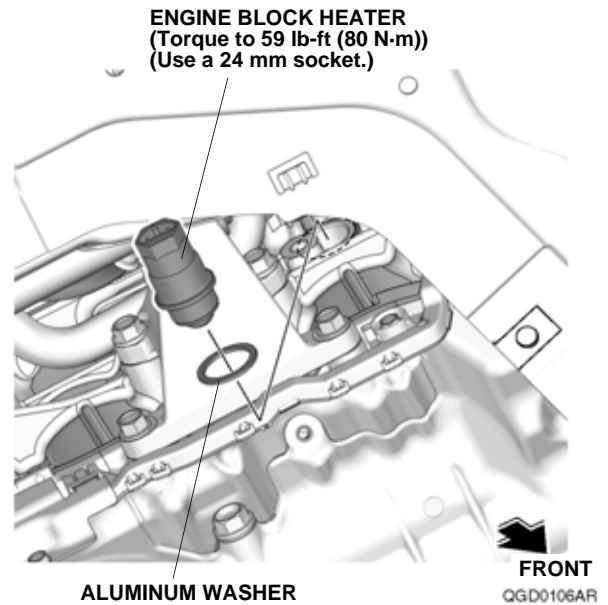
DRAIN BOLT
(Retain.)
(Use a 19 mm socket.)



WASHER
(Do not reuse.)

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10. Install the engine block heater with the aluminum washer into the bolt hole using a 24 mm socket. Torque the engine block heater to 59 lb-ft (80 N·m).

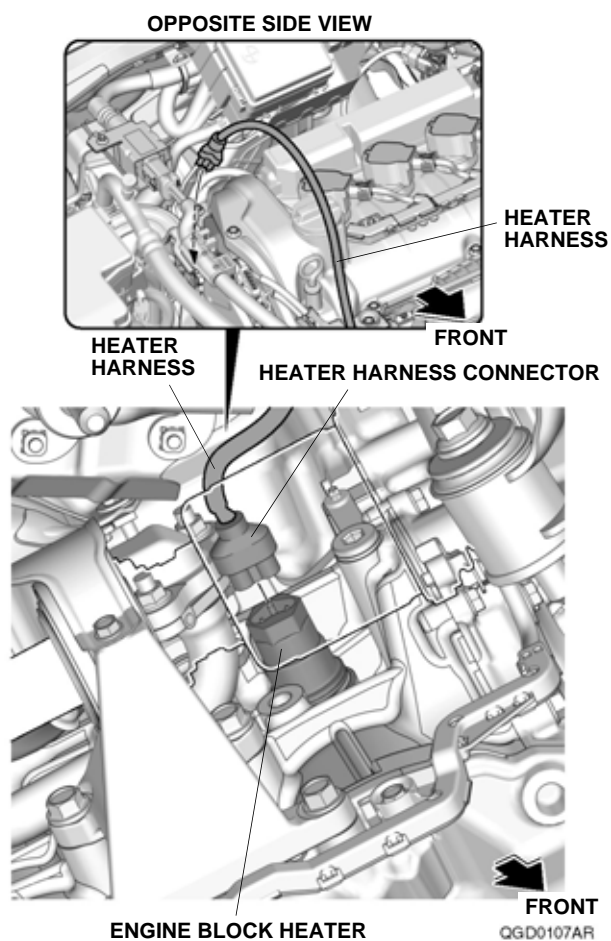


ENGINE BLOCK HEATER
(Torque to 59 lb-ft (80 N·m))
(Use a 24 mm socket.)

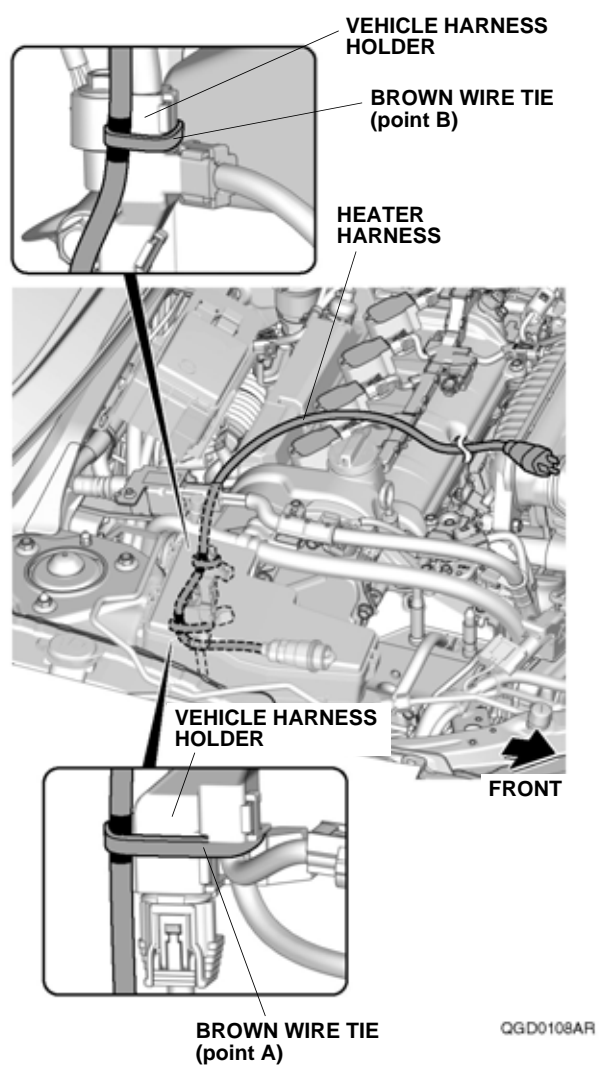
ALUMINUM WASHER

FRONT
QGD0106AR

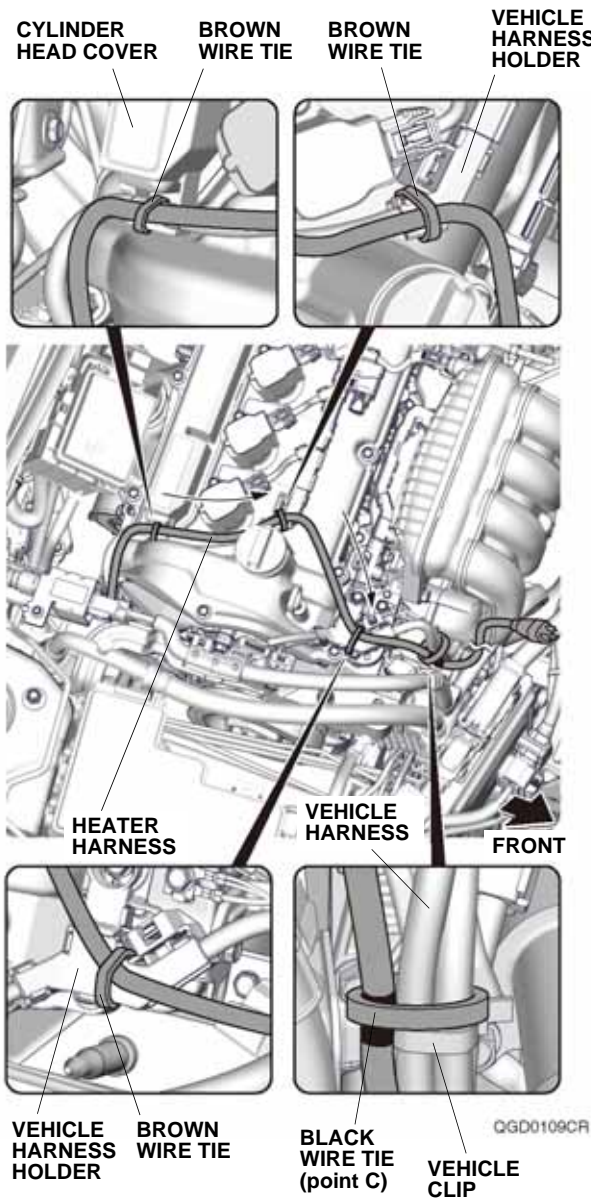
11. Plug the heater harness connector into the engine block heater. Make sure it is fully seated.



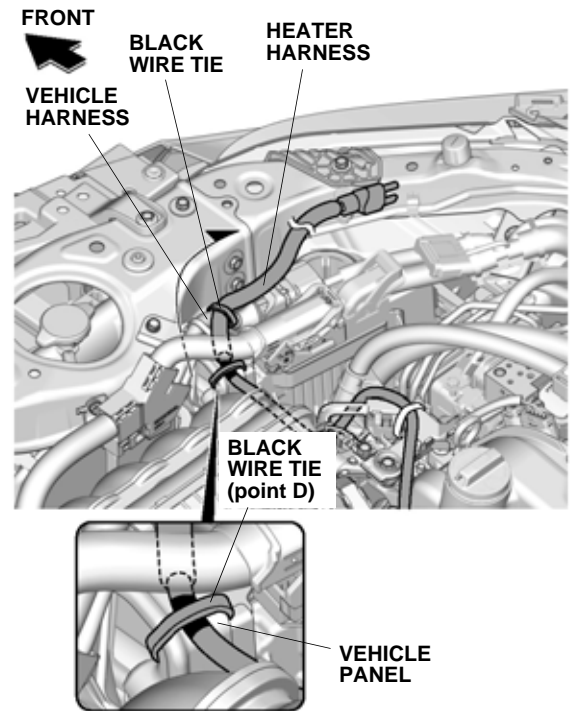
12. Secure the heater harness to the vehicle harness holder with two brown wire ties at points A and B.



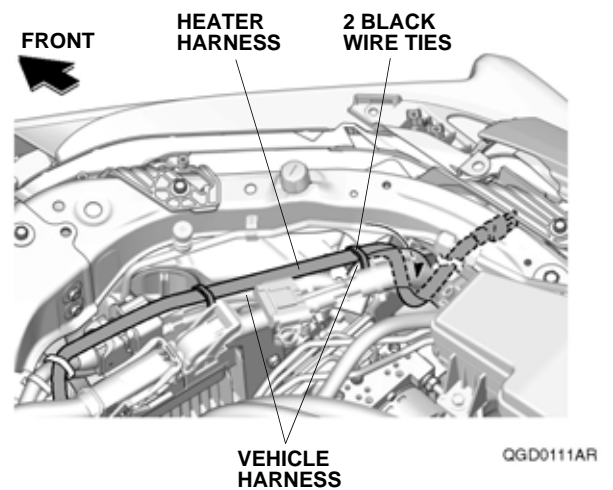
13. Route the heater harness as shown, and secure it to the vehicle harness with one black wire tie at point C and to the cylinder head cover and vehicle harness holder with three brown wire ties.



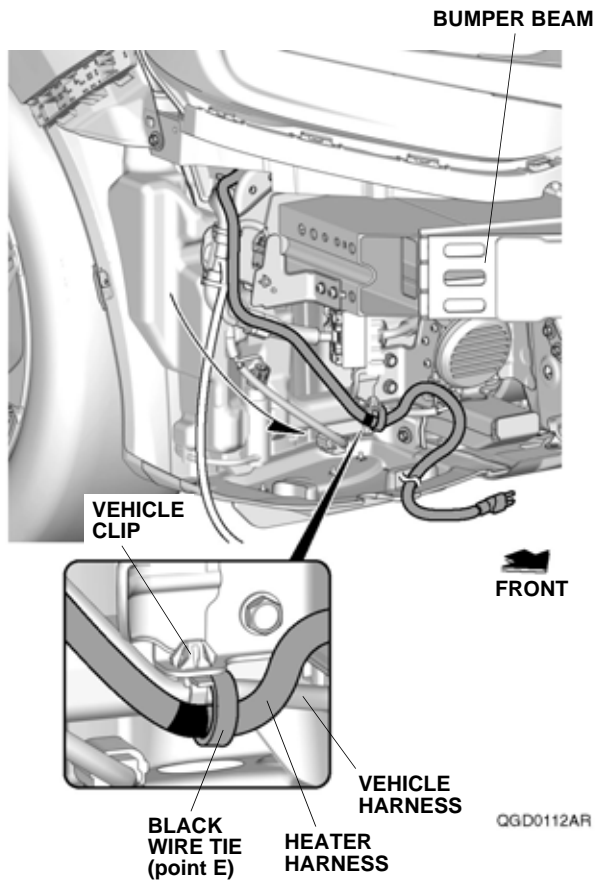
14. Route the heater harness as shown, and secure it to the vehicle panel with one black wire tie at point D and to the vehicle harness with one black wire tie.



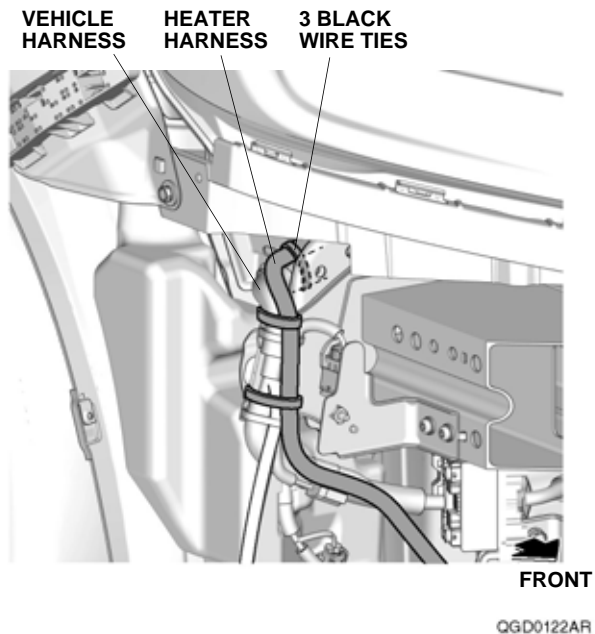
15. Route the heater harness behind the bumper beam, and secure it to the vehicle harness with two black wire ties.



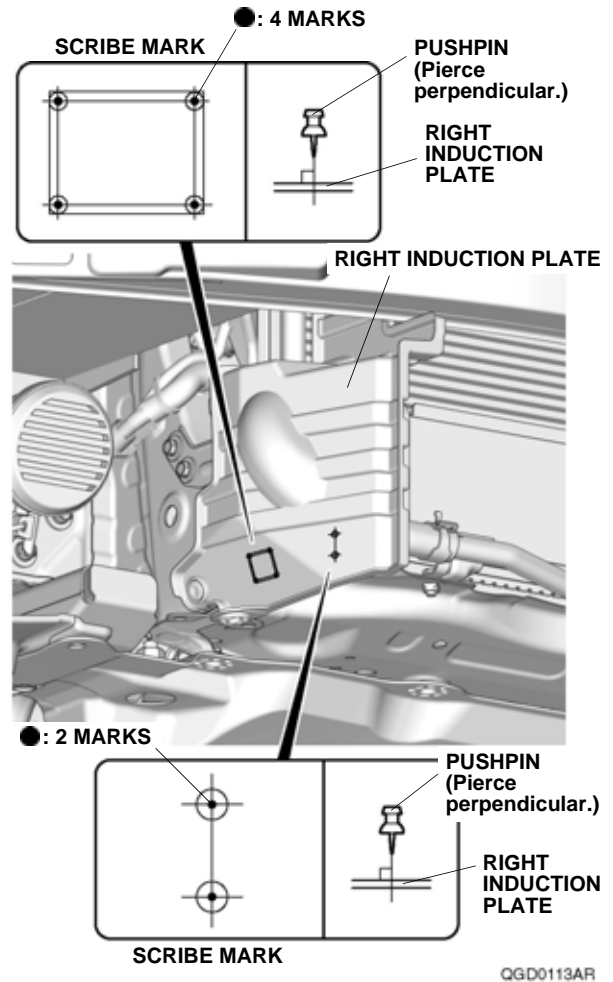
16. Route the heater harness as shown, and secure it to the vehicle harness with one black wire tie at point E.



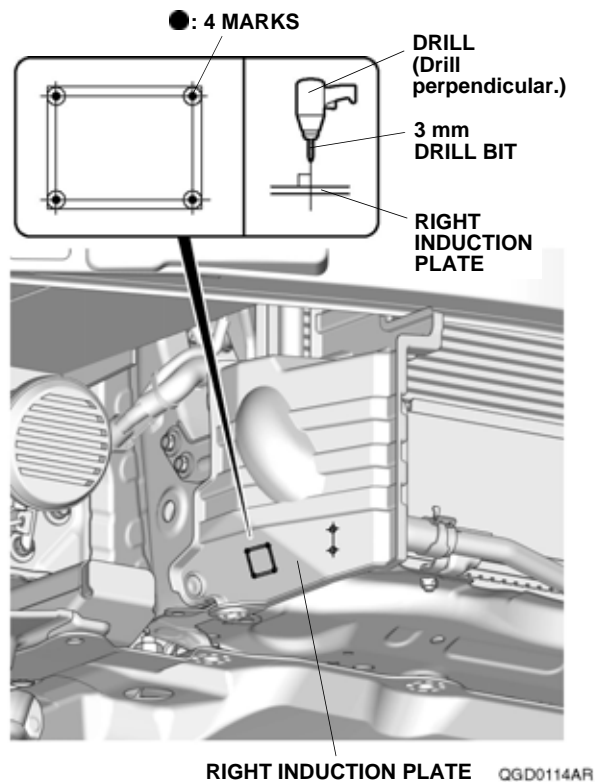
17. Secure the heater harness to the vehicle harness with three black wire ties.



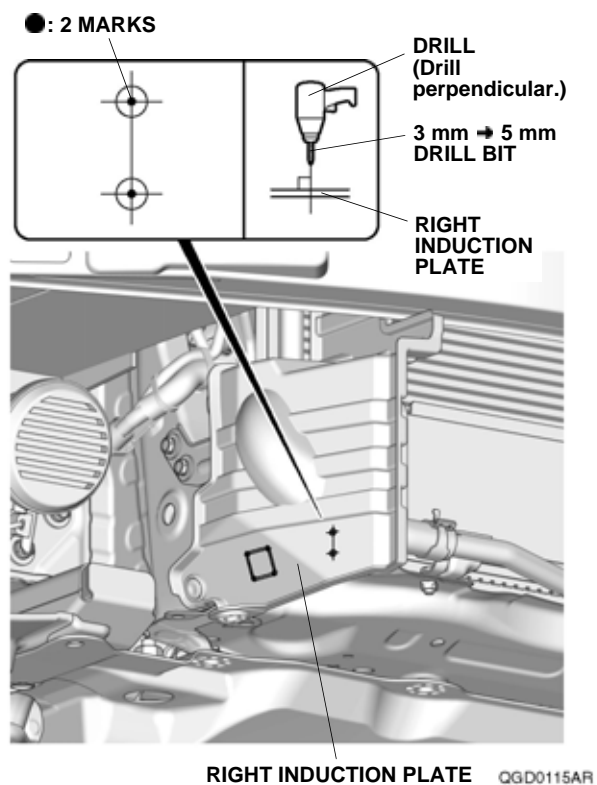
18. Using a pushpin, pierce the center of the six scribe marks on the right induction plate.



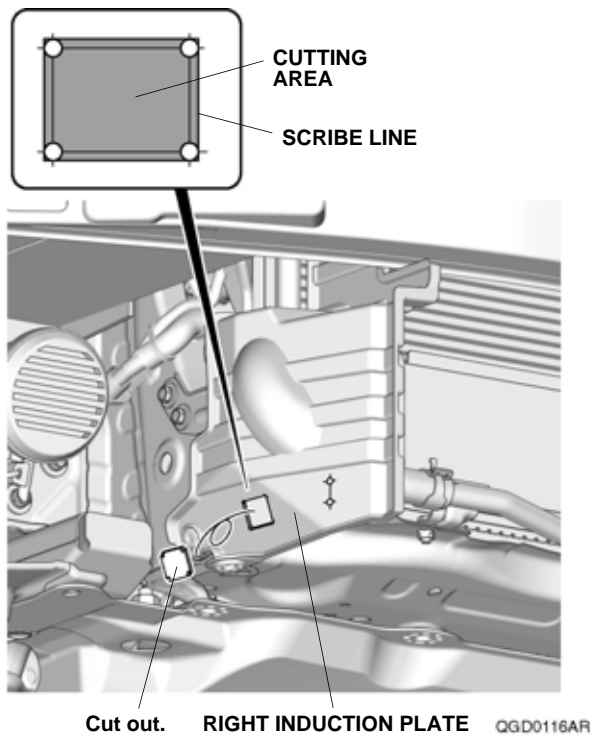
19. While wearing eye protection, drill the four pierced marks on the right induction plate with a 3 mm drill bit.



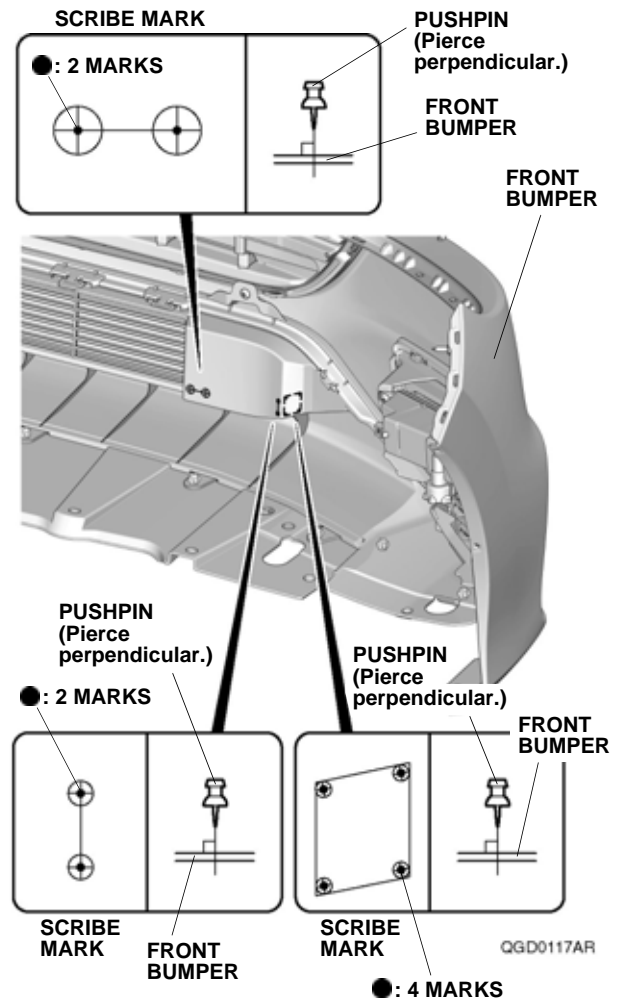
20. While wearing eye protection, drill the two pierced marks on the right induction plate with a 3 mm drill bit, then enlarge the holes with a 5 mm drill bit. Remove any burrs.
- NOTE: Make sure to drill the correct positions.



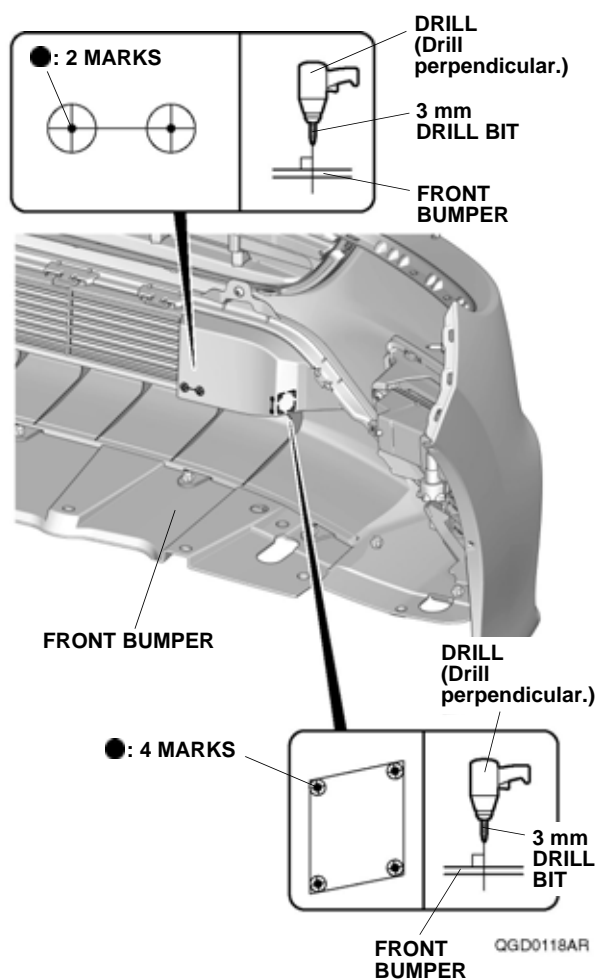
21. Using a hacksaw, cut out the right induction plate as shown. Remove any burrs.



22. Using a pushpin, pierce the center of the eight scribe marks on the front bumper.

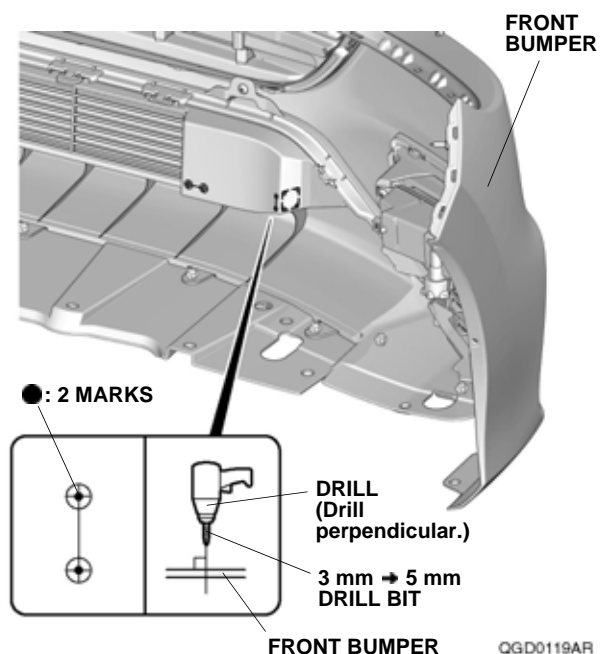


23. While wearing eye protection, drill the six pierced marks on the front bumper with a 3 mm drill bit.



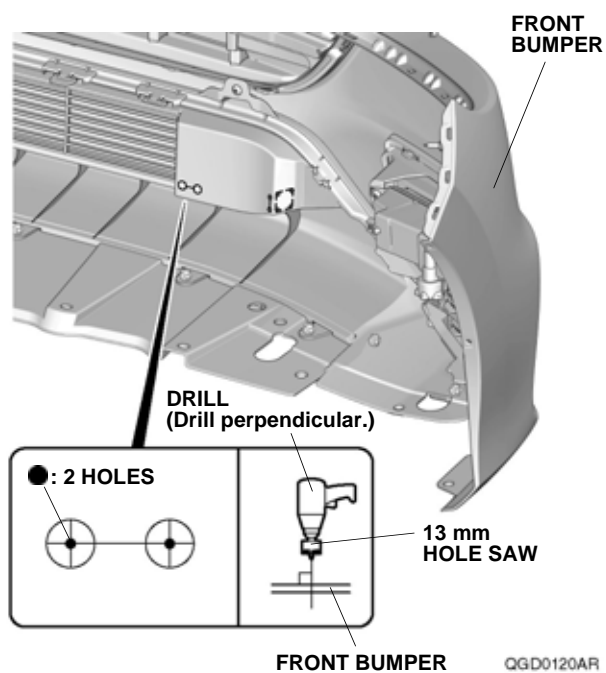
24. While wearing eye protection, drill the two pierced marks on the front bumper with a 3 mm drill bit, then enlarge the holes with a 5 mm drill bit. Remove any burrs.

NOTE: Make sure to drill the correct positions.

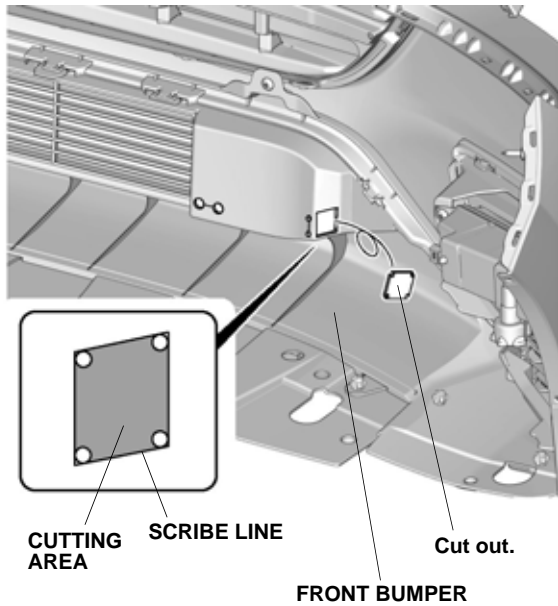


25. While wearing eye protection, enlarge the two 3 mm holes on the front bumper with a 13 mm hole saw. Remove any burrs.

NOTE: Make sure to drill the correct positions.

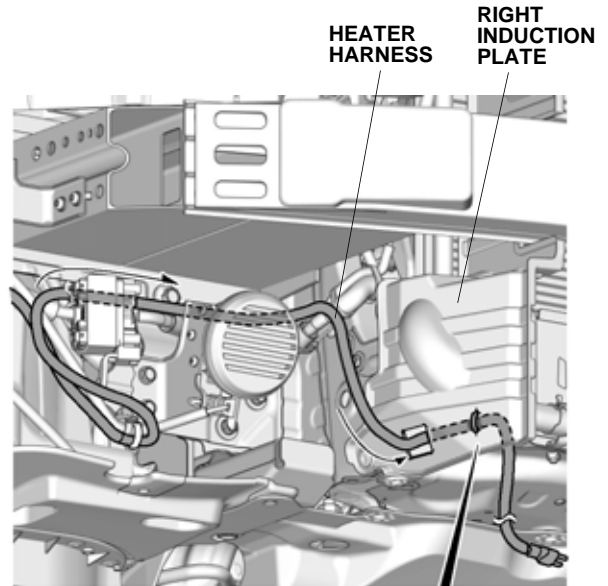


26. Using a hacksaw, cut out the front bumper as shown. Remove any burrs.

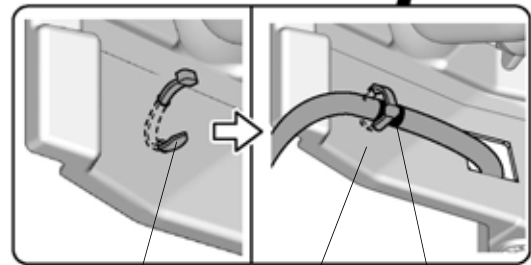


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27. Route the heater harness as shown.



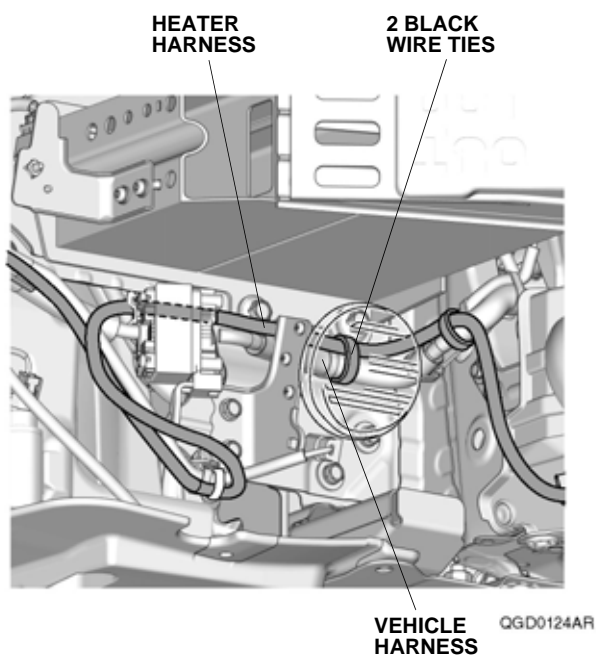
OPPOSITE SIDE VIEW



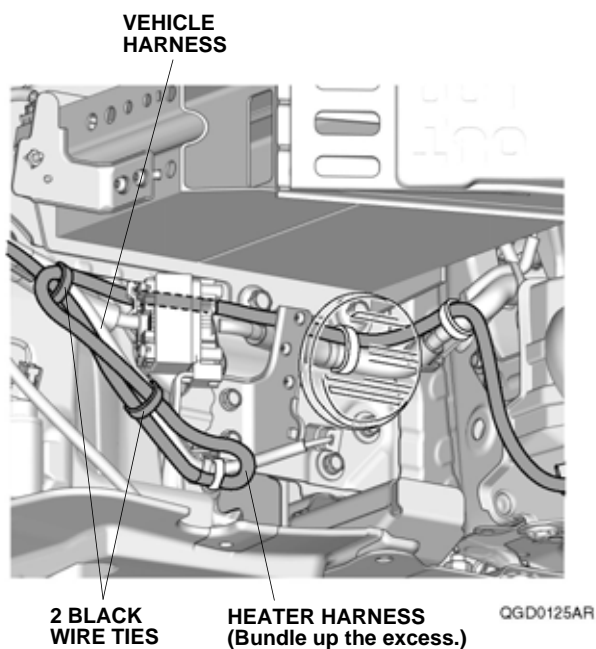
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28. Route the heater harness through the right induction plate, and secure it to the right induction plate with one black wire tie at point F.

29. Secure the heater harness to the vehicle harness with two black wire ties.

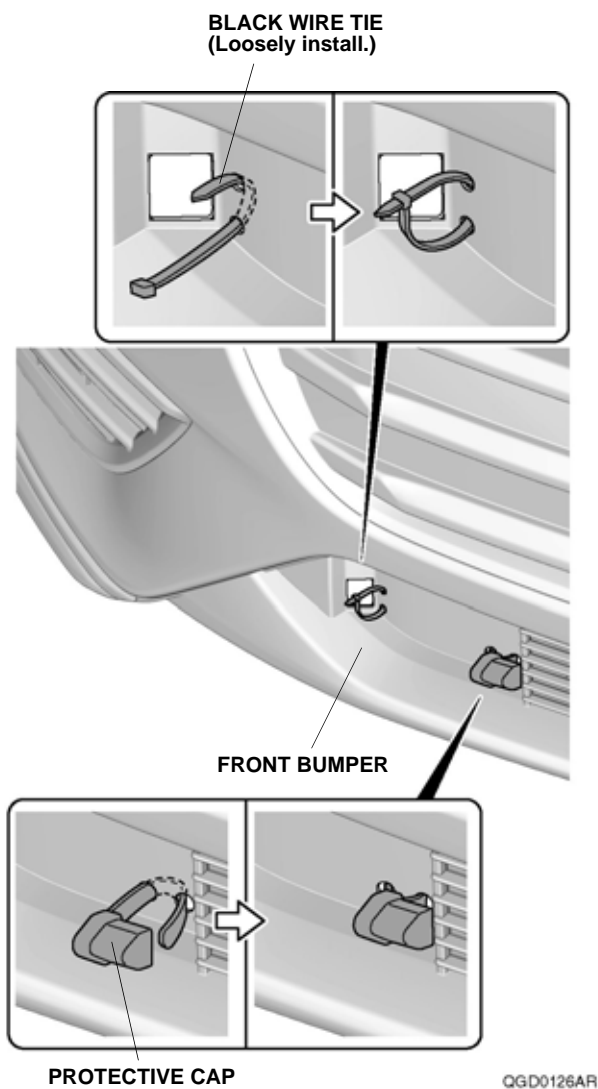


30. Bundle up the excess heater harness, and secure it to the vehicle harness with two black wire ties.

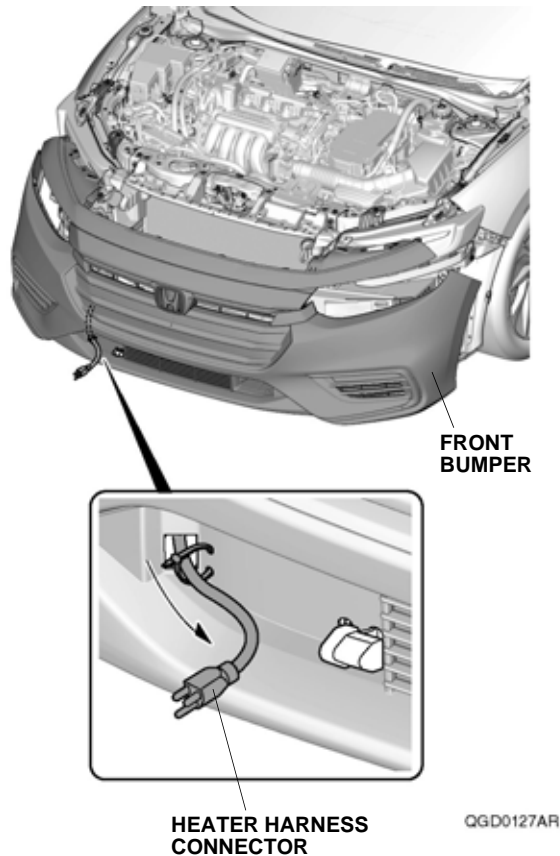


31. Install the radiator drain plug.

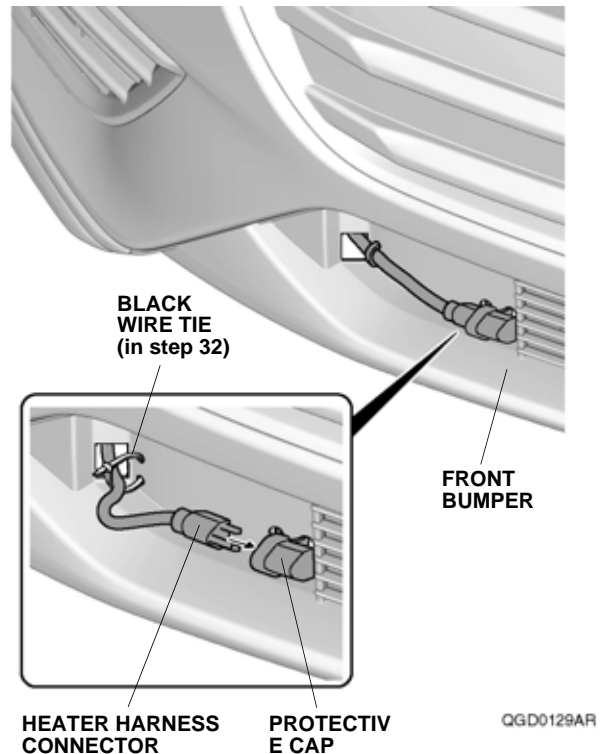
32. Attach the protective cap to the front bumper, and loosely install the black wire tie to the front bumper.



33. With the help of an assistant, bring the front bumper close to the vehicle. Route the heater harness through the front bumper, then install the front bumper.



34. Plug the heater harness connector into the protective cap, and secure the heater harness to the front bumper with one black wire tie loosely installed in step 32.



35. Install all removed parts except for the right side panel.
36. Remove the radiator cap, and fill the system with the recommended coolant. Follow the instructions in the service information to fill the cooling system. Make sure there are no leaks around the engine block heater.
37. Install the radiator cap.
38. Make sure the heater harness is routed properly and all connectors are plugged in.
39. Put the drain bolt (removed in step 9) in the glove box.
40. Connect the negative cable to the battery.
41. Install the right side panel.
42. Press and hold the audio unit power button for 2 seconds to restore the audio and navi (if equipped) system functions.
43. Set the clock on vehicles without navigation.
44. If necessary, restore the systems back to normal operation as described in the service information.