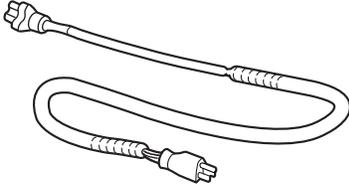
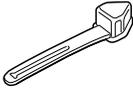
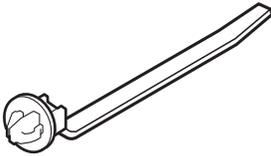


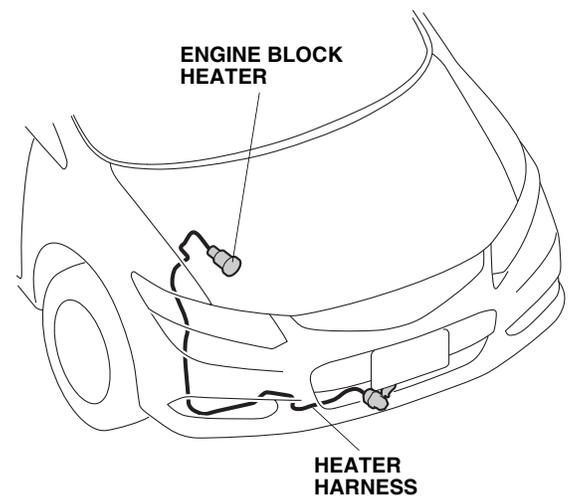
## PARTS LIST

Engine block heater	
Aluminum washer	
Heater harness	
Protective cap	
12 Black wire ties (1 Not used)	
7 Wire ties with clip (Not used)	
5 White wire ties (3 Not used)	

## TOOLS AND SUPPLIES REQUIRED

- Phillips screwdriver
- Flat-tip screwdriver
- Ratchet
- 10 mm, 12 mm, 16 mm, and 24 mm Sockets
- Torque wrench
- Diagonal cutters
- Heavy gloves
- Drain pan
- Tape measure
- Felt-tip pen
- Coolant (Honda All Season Antifreeze/Coolant Type 2)
- Eye protection (face shield, safety goggles, etc.)
- Blanket
- Drill
- 3 mm and 5 mm Drill bits
- 5 mm and 10 mm Hex wrenches
- Pushpin
- Fender cover
- Shop towel
- Masking tape
- Trim Tool Set (T/N SOJATP2014)
- File

### ***Illustration of the Engine Block Heater Installed on the Vehicle***



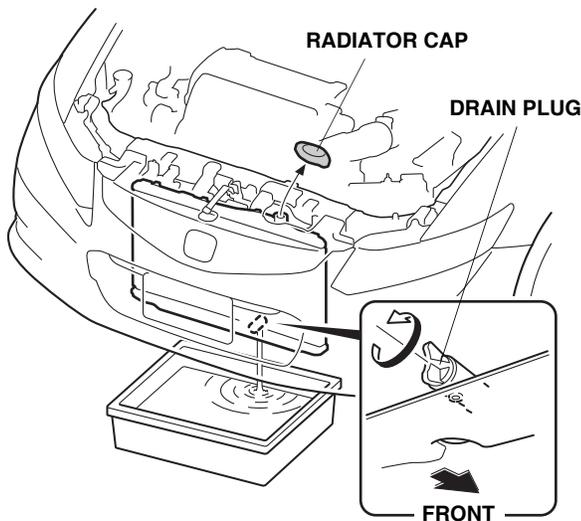
## INSTALLATION

**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.”

### NOTE:

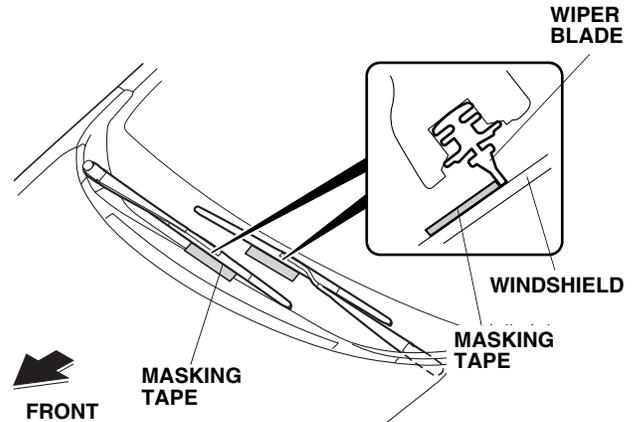
- Always use Honda All Season Antifreeze/Coolant Type 2. Using a non-Honda coolant can result in corrosion, causing the cooling system to malfunction or fail.
  - To avoid burning out the element, do not operate the engine block heater until it is installed in the vehicle and you have added the coolant.
1. Disconnect the negative cable from the battery.
  2. Allow the engine and all cooling system components to cool down.
  3. 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 body paint. Quickly rinse any spilled coolant from body paint finish.

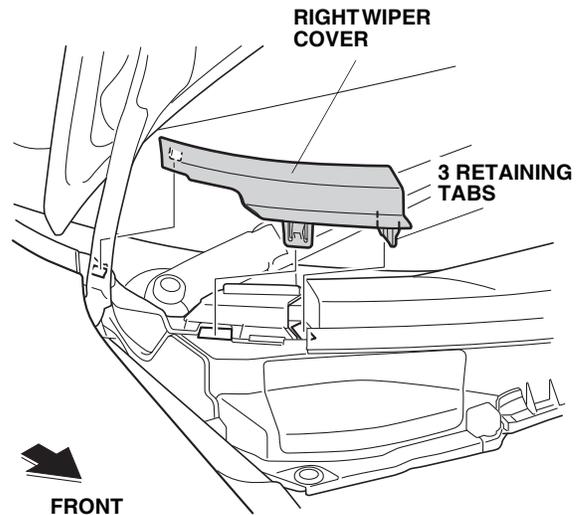


4. Drain the coolant completely, then reinstall the radiator cap.

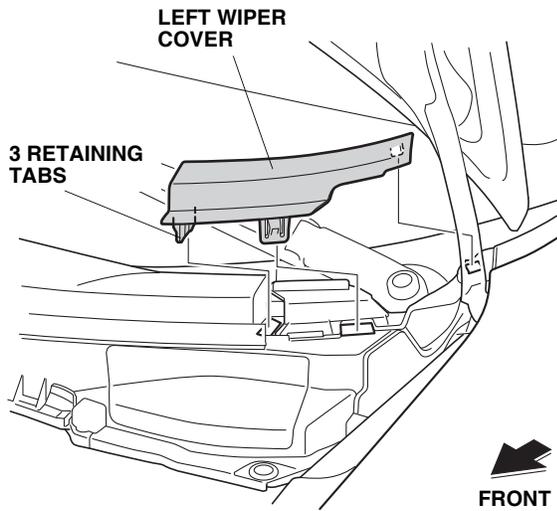
5. Close the hood. Attach masking tape to the windshield under each wiper blade as shown.



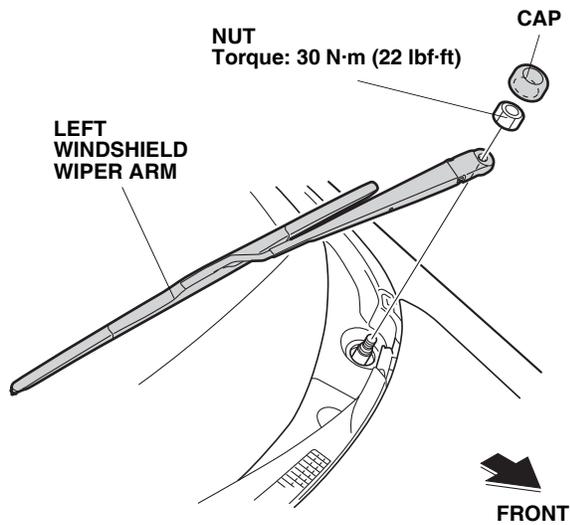
6. Open the hood. Remove the right wiper cover (three retaining tabs).



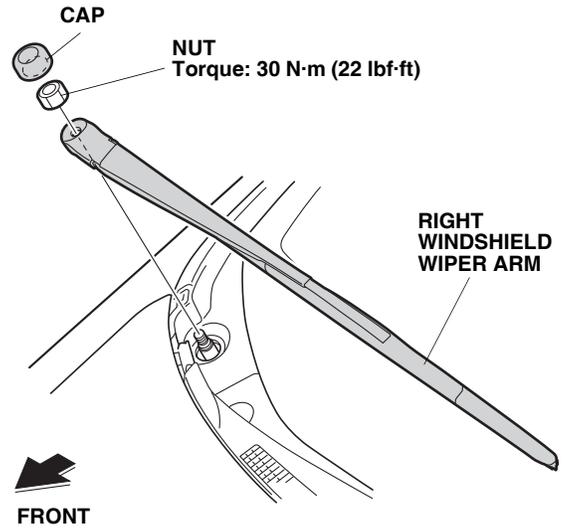
7. Remove the left wiper cover (three retaining tabs).



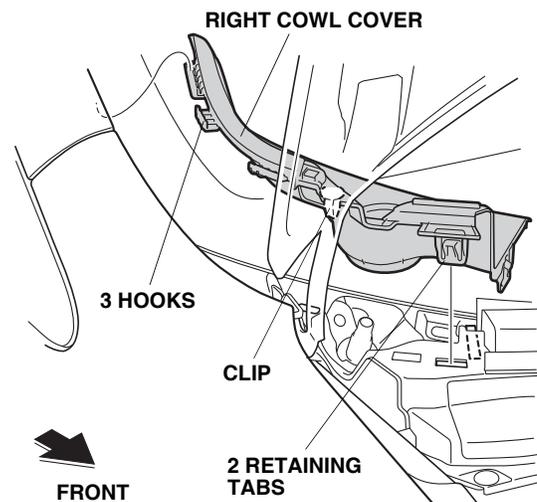
8. Close the hood. Remove the left windshield wiper arm (one cap and one nut). When reinstalling the windshield wiper, torque the nut to 30 N·m (22 lbf·ft).



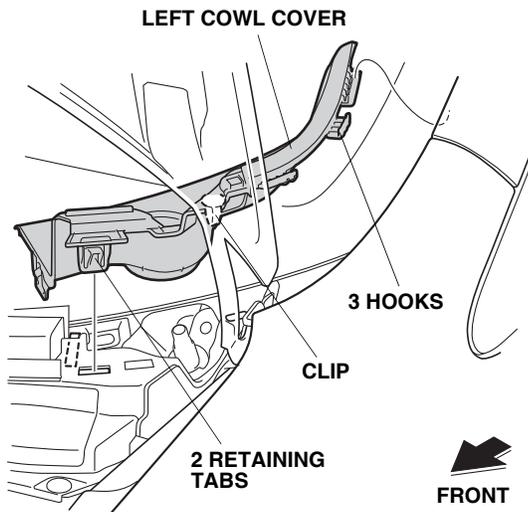
9. Remove the right windshield wiper arm (one cap and one nut). When reinstalling the windshield wiper, torque the nut to 30 N·m (22 lbf·ft).



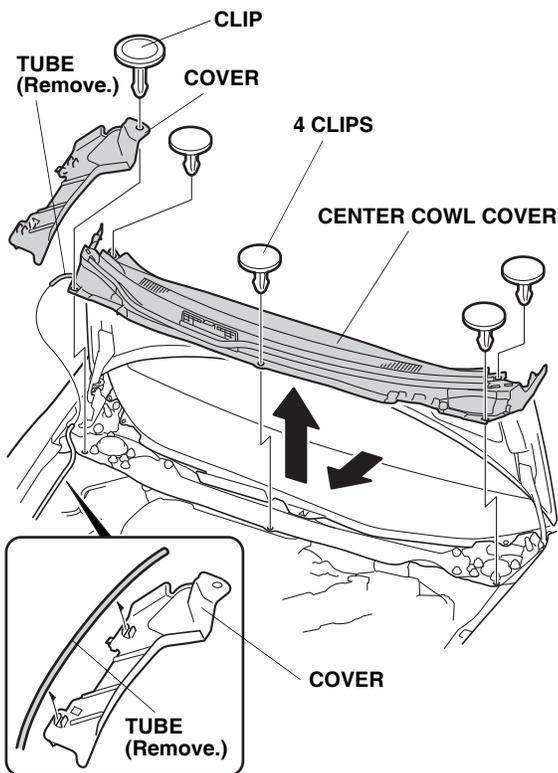
10. Open the hood, and remove the right cowl cover (two retaining tabs, clip, and three hooks).



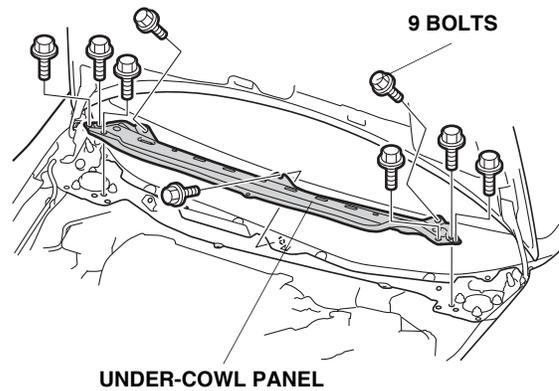
11. Remove the left cowl cover (two retaining tabs, clip, and three hooks).



12. Remove the cover (one clip and tube). Remove the center cowl cover (four clips and tube).



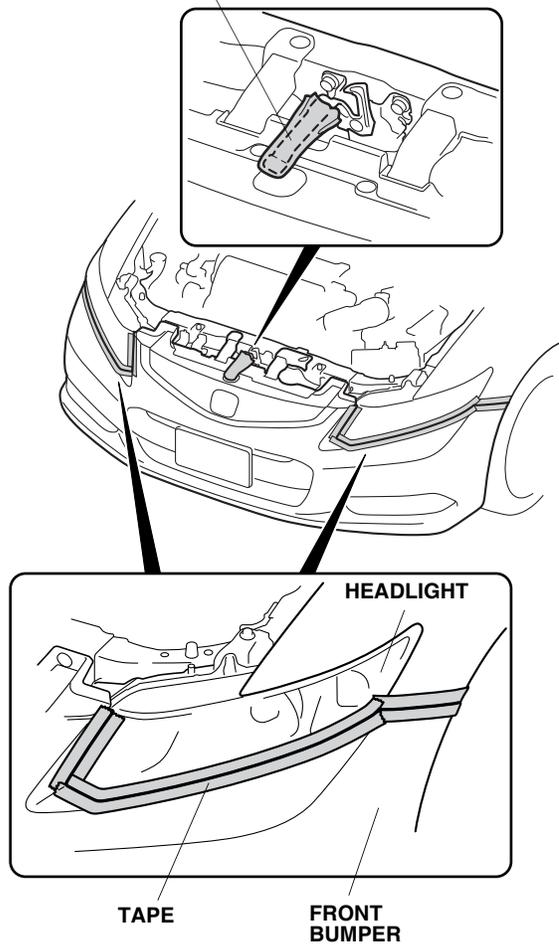
13. Remove the under-cowl panel (nine bolts).



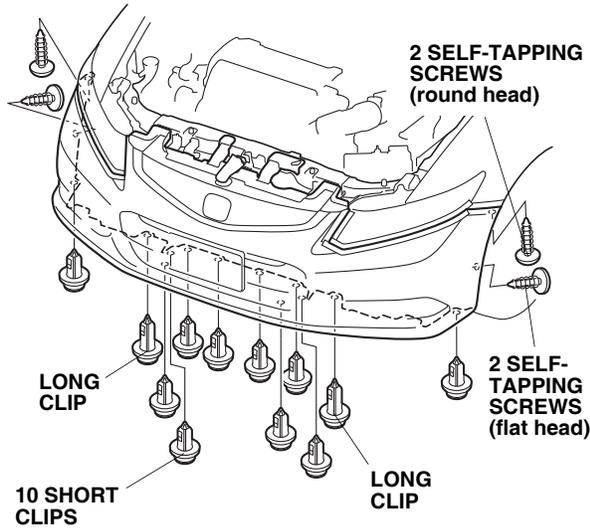
14. Remove the front bumper:

- Wrap a shop towel around the hood latch.
- On each side, attach tape around the headlight in the areas shown.

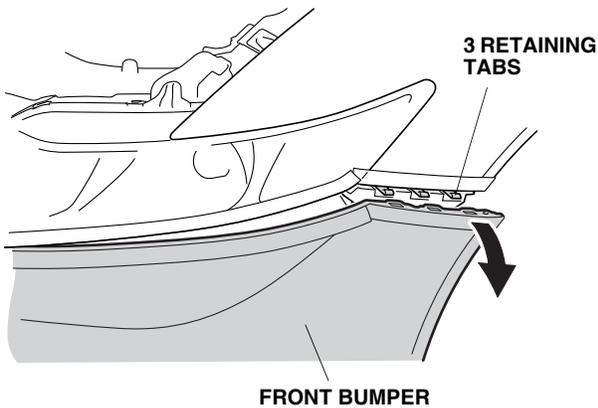
**HOOD LATCH**  
(Wrap with a shop towel.)



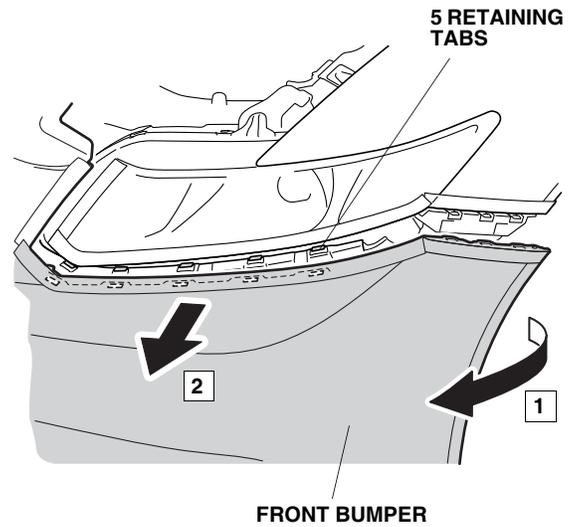
- Remove the 4 self-tapping screws, 10 short clips, and 2 long clips. Note the location of the long clips.



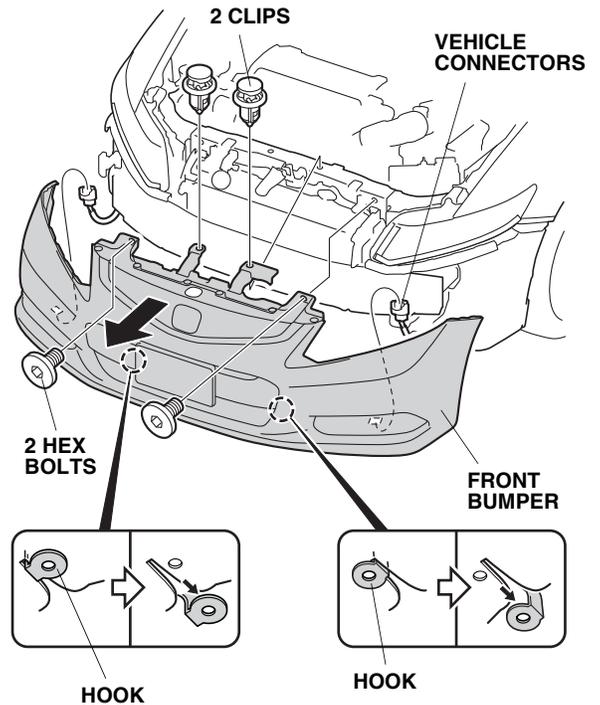
- On each side, release three retaining tabs.



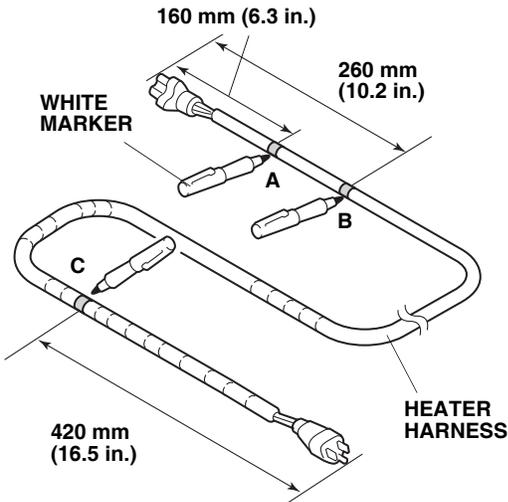
- On each side, release five retaining tabs.



- With the help of an assistant, remove the front bumper (two hex bolts, two clips, and unplug the vehicle connectors). Place the front bumper on a blanket to prevent damage.

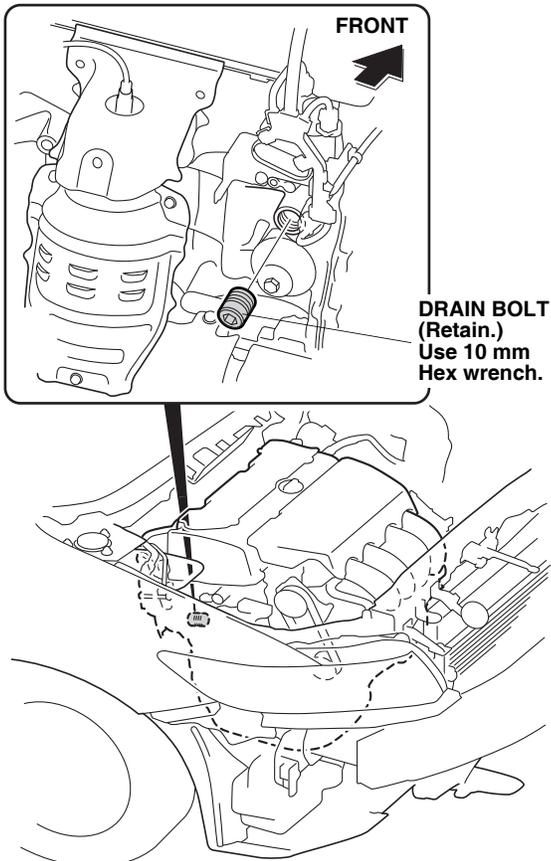


15. Using a tape measure and felt-tip pen, measure and mark the heater harness at the three measurements shown.

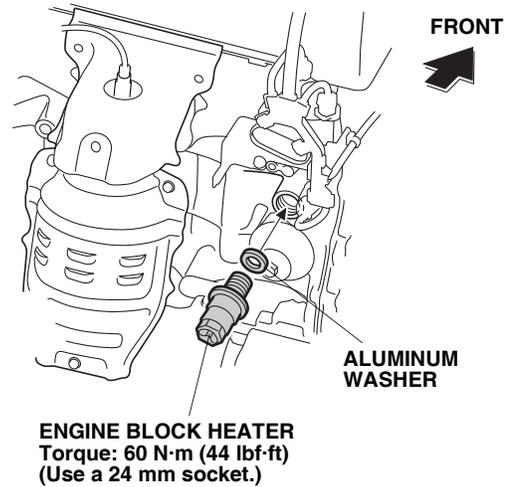


16. Locate and remove the drain bolt. Coolant remaining in the engine jackets flows out of the hole when the bolt is removed. Retain the bolt; it will be used if the block heater is removed.

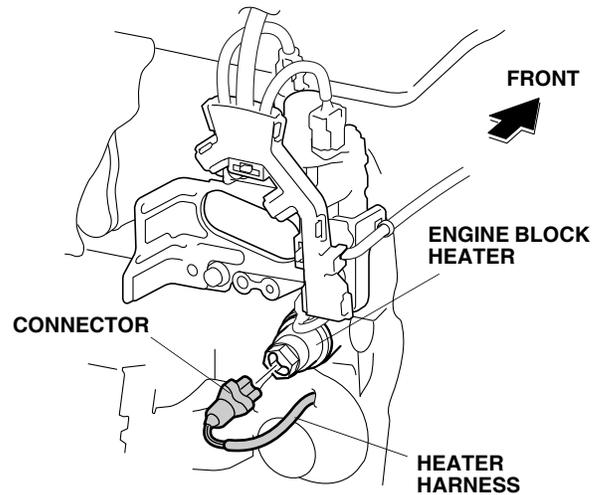
**NOTE:** Use a new washer if the drain bolt is reinstalled.



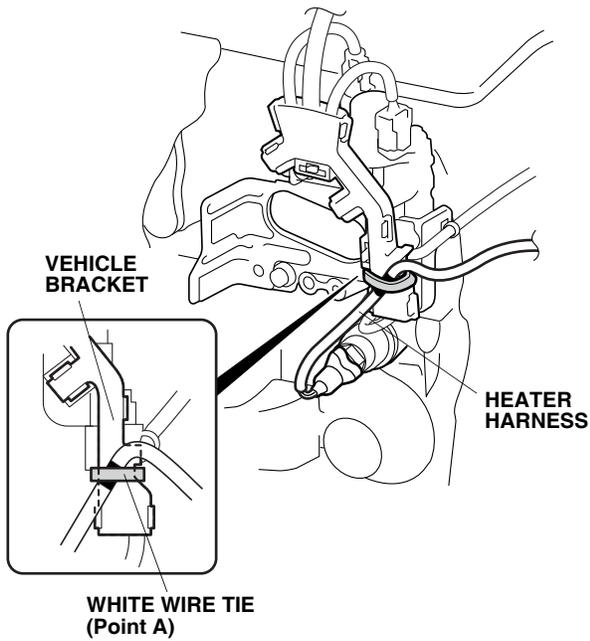
17. Install the engine block heater with aluminum washer into the bolt hole using a 24 mm socket and a torque wrench. Torque the engine block heater to 60 N·m (44 lbf·ft).



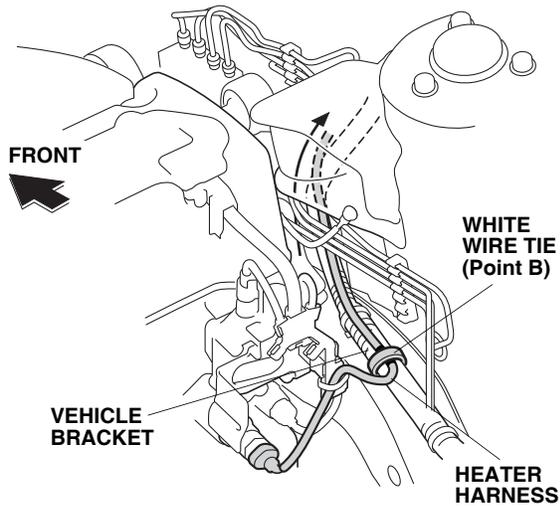
18. Plug the connector end of the heater harness into the engine block heater.



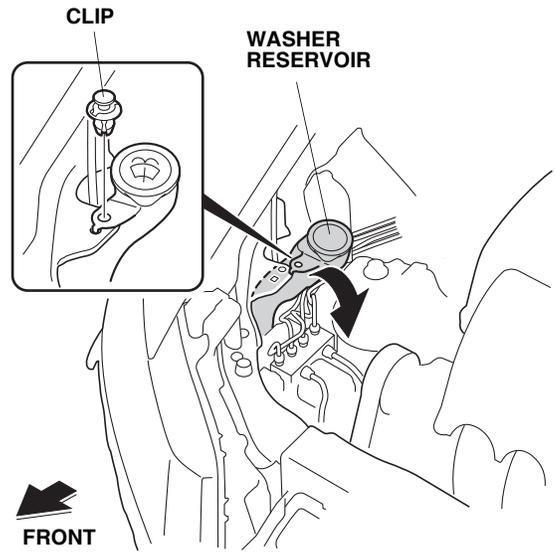
- Secure the heater harness to the vehicle bracket with one white wire tie at the mark you made (point A).



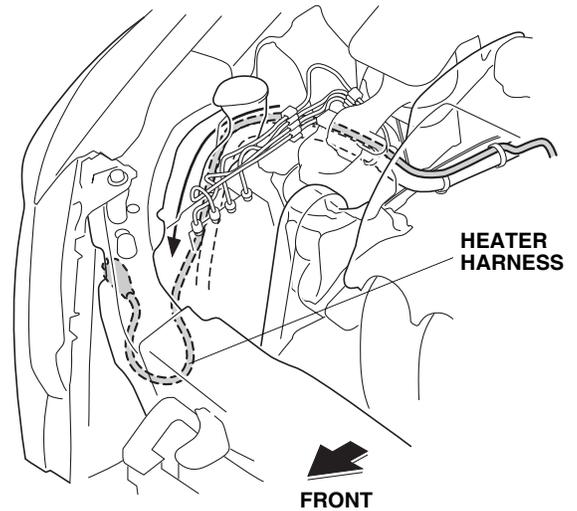
- Route the heater harness toward the passenger's side of the vehicle. Secure the heater harness to the vehicle harness with one white wire tie at the mark you made (point B).



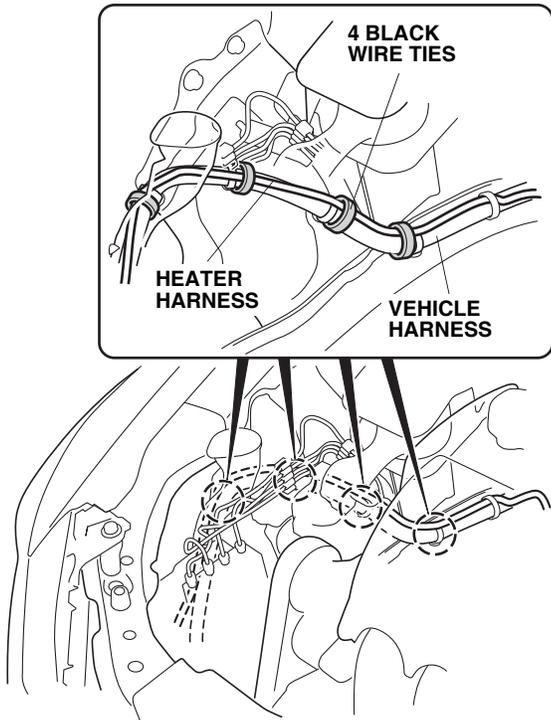
- Remove the clip that secures the washer reservoir, and carefully move the reservoir out of the way.



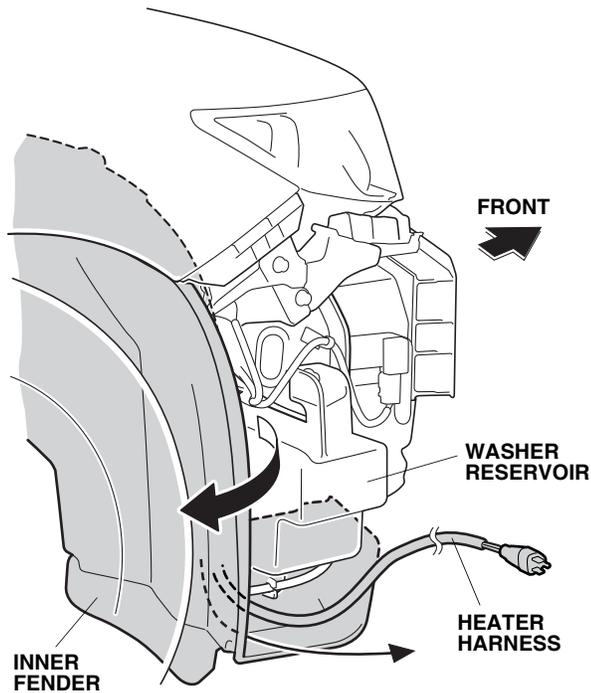
- Route the heater harness behind the washer reservoir, and down along the fenderwell.



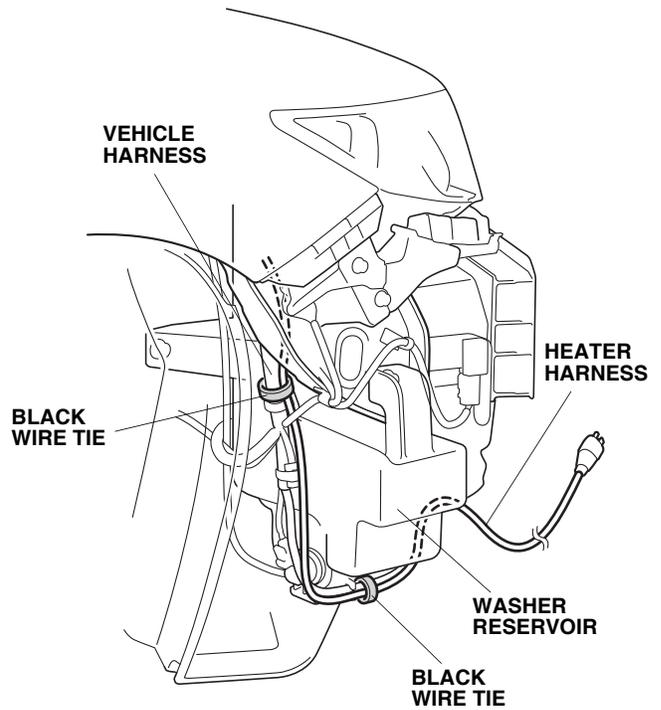
23. Secure the heater harness to the vehicle harness using four black wire ties.



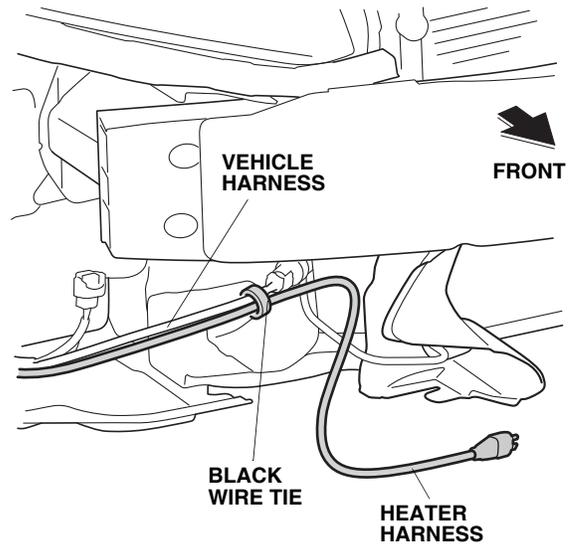
24. Pull the inner fender away from the washer reservoir, then route the heater harness out away from the inner fender.



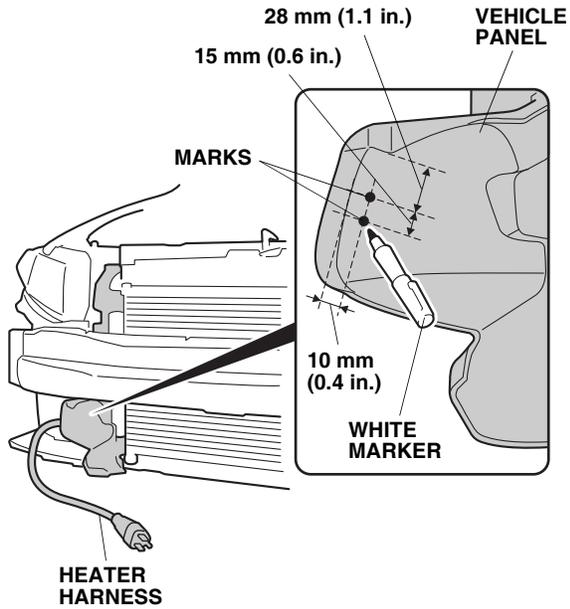
25. Secure the heater harness to the vehicle harness using two black wire ties.



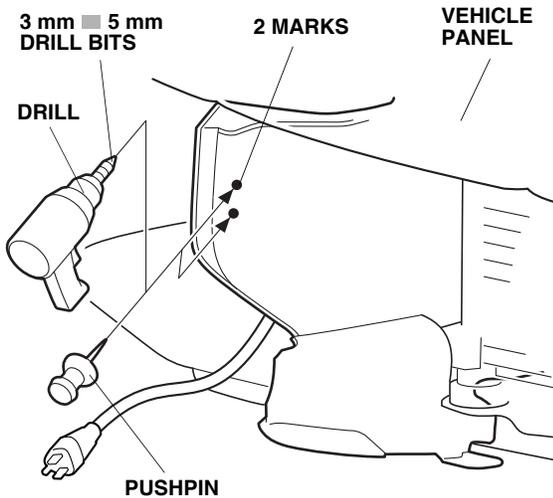
26. Route the heater harness across the front bulkhead, and secure it to the vehicle harness with one black wire tie.



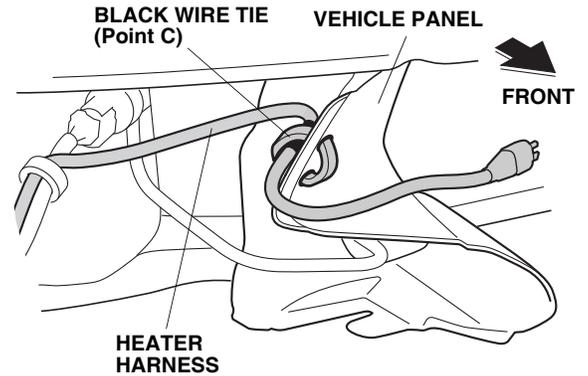
27. Using a tape measure and felt-tip pen, measure and mark the vehicle panel at the measurement shown.



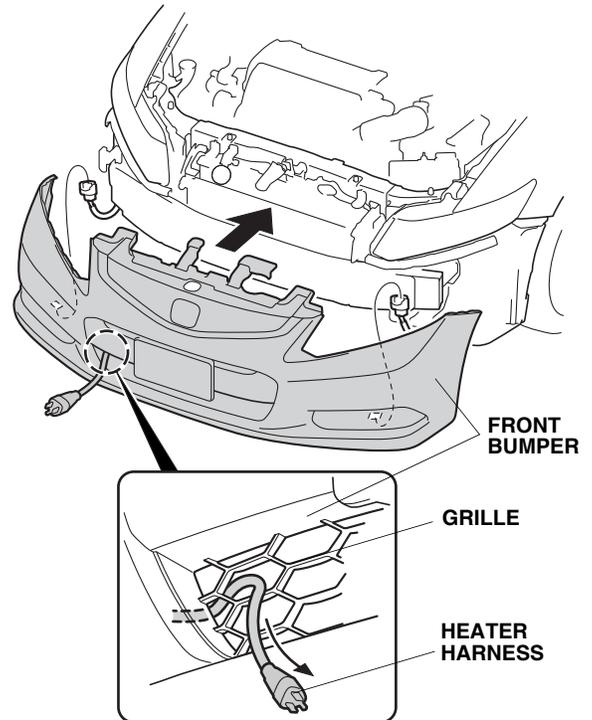
28. Using a pushpin, pierce the two marks on the vehicle panel. While wearing eye protection, drill the two pierced marks with a 3 mm drill bit, then enlarge the holes with a 5 mm drill bit. Remove any burrs.



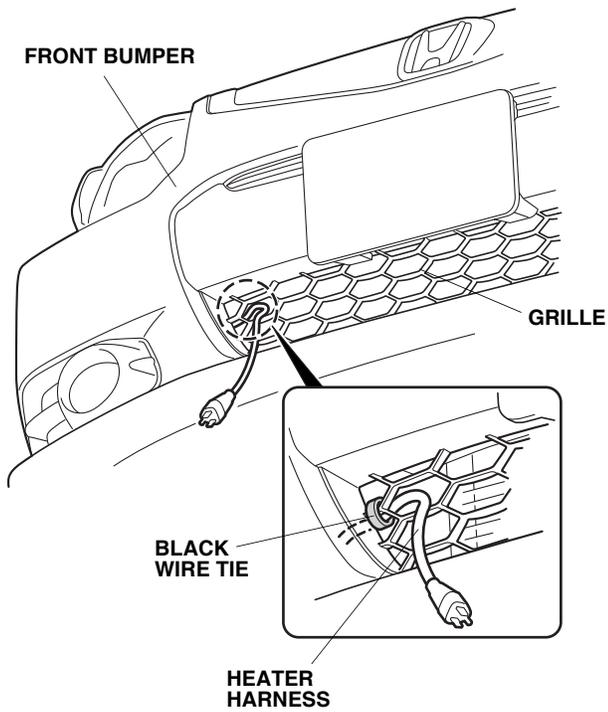
29. Secure the heater harness to the vehicle panel holes with one black wire tie at the mark you made (point C).



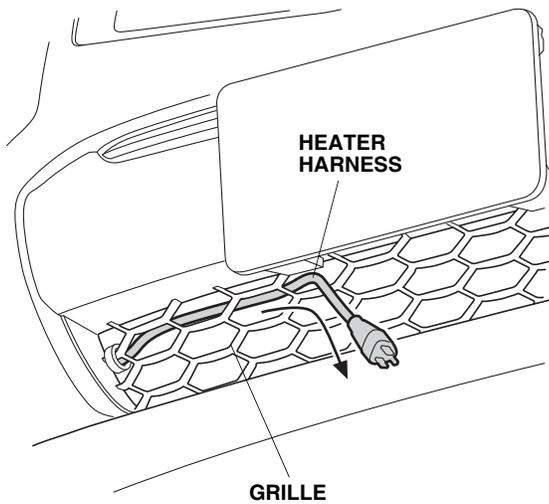
30. With the help of an assistant, route the heater harness through the grille in the area shown, then reinstall the front bumper.



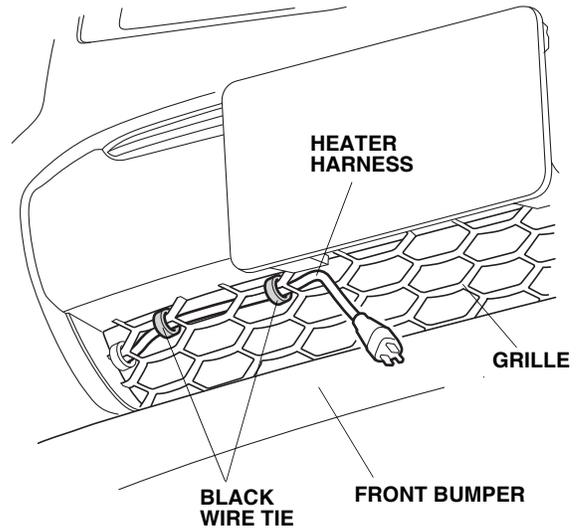
31. Secure the heater harness to the grille using one black wire tie.



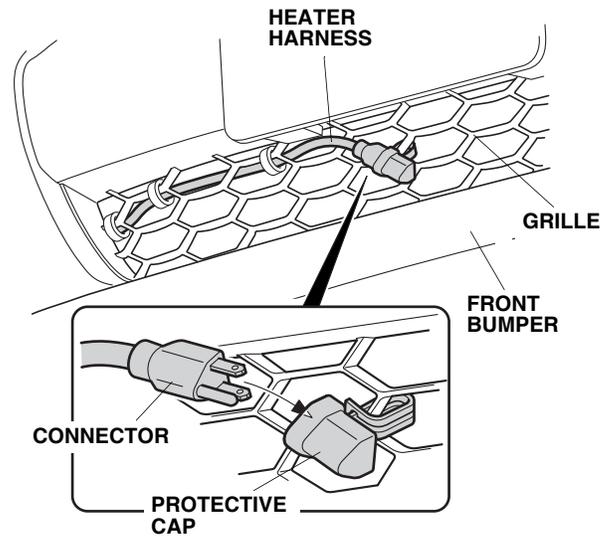
32. Continue routing the heater harness along the inside of the grille, and out the hole shown.



33. Secure the heater harness to the grille using two black wire ties.



34. Attach the protective cap to the grille, and plug the heater harness connector into the protective cap.



35. Reinstall all removed parts except for the radiator cap.
36. Reinstall the radiator drain plug.
37. Fill the system with the recommended coolant. Follow the instructions described in the service manual to fill and bleed the cooling system.
38. Check the coolant reservoir for the correct level and check the cooling system for signs of leakage. Repair as necessary.
39. Check that the heater harness is routed properly and all connectors are plugged in.
40. Reinstall the radiator cap.
41. Put the drain bolt (removed in step 16) in the glove box.
42. Reconnect the negative cable to the battery.
43. Press and hold the radio power button for two seconds to restore the radio and navigation (if equipped) system functions.
44. Reset the clock if necessary.