



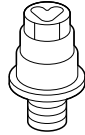
INSTALLATION INSTRUCTIONS

Accessory ENGINE BLOCK HEATER	Application 2012 CIVIC 4-DOOR (Hybrid)	Publications No. All 45622
		Issue Date APR 2011

PARTS LIST

Engine Block Heater Kit P/N 08T44-SNA-101

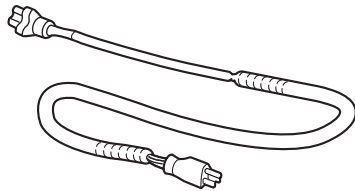
Engine block heater



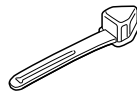
Aluminum washer



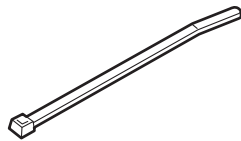
Heater harness



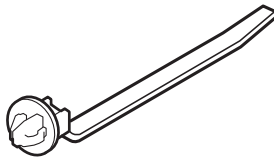
Protective cap



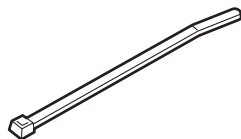
12 Black wire ties



7 Wire ties with clip
(5 Not used)

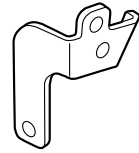


5 White wire ties
(4 Not used)

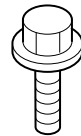


Engine Block Heater Bracket Kit P/N 08T44-TK6-100

Bracket A

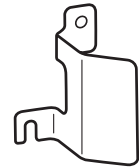


Washer-bolt

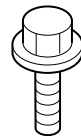


Engine Block Heater Bracket Kit P/N 08T44-TR0-100

Bracket B



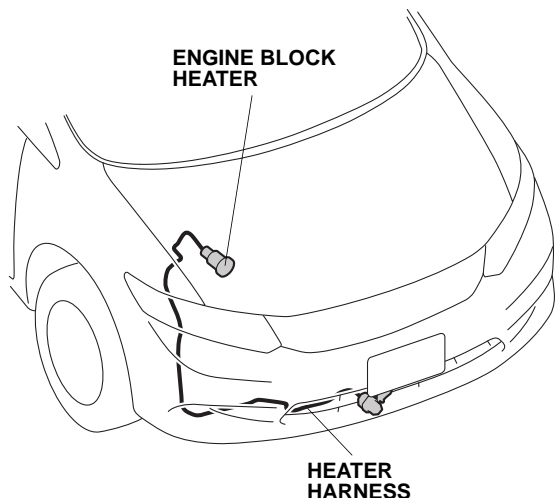
2 Washer-bolts



TOOLS AND SUPPLIES REQUIRED

Phillips screwdriver
Flat-tip screwdriver
Ratchet
10 mm, 16 mm, 19 mm, and 24 mm Sockets
Torque wrench
Diagonal cutters
Heavy gloves
Drain pan
Tape measure
Marker
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 Hex wrench
Pushpin
Fender cover
Tape
Trim Tool Set (T/N SOJATP2014)
Shop towel
Masking tape
File

Illustration of the Engine Block Heater installed in the vehicle



INSTALLATION

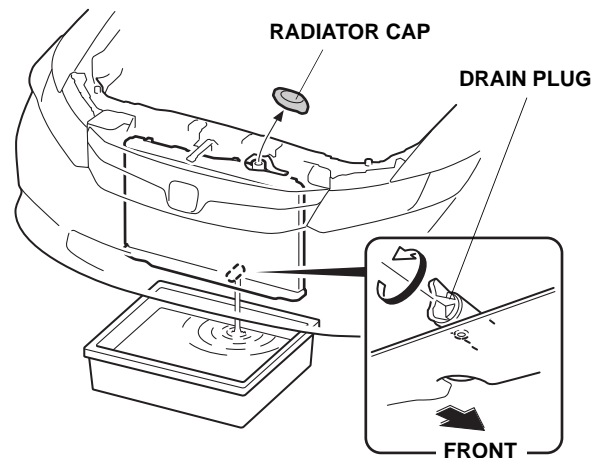
Customer Information: The information in this installation instruction is intended for use only by skilled technicians who have the proper tools, equipment, and training to correctly and safely add equipment to your vehicle. These procedures should not be attempted by “do-it-yourselfers.”

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 coolant.

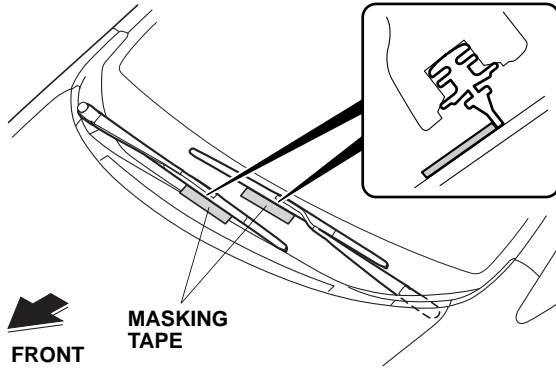
1. Disconnect the negative cable from the battery.
2. Allow the engine and all cooling system components to cool down.
3. Place a clean drain pan under the radiator drain plug, then remove the drain plug from the bottom of the radiator to drain the coolant. Remove the radiator cap to increase the flow.

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

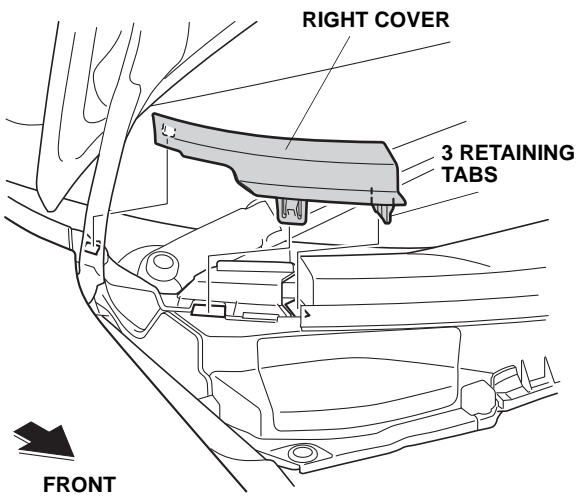


4. Drain the coolant completely, then reinstall the radiator cap.

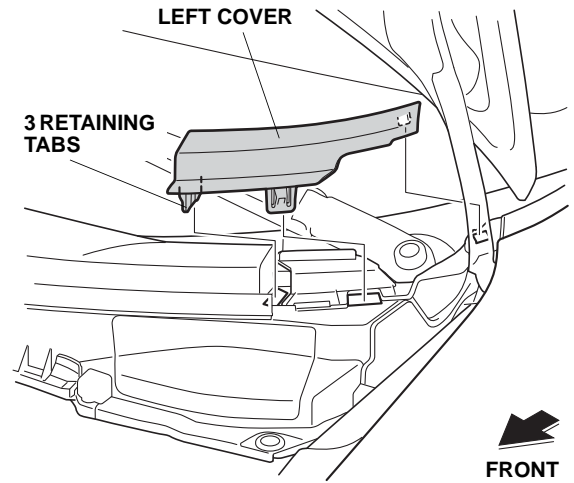
5. Attach pieces of masking tape as shown.



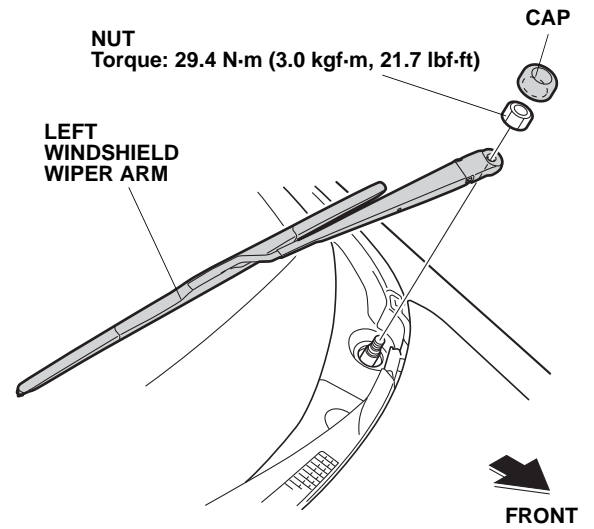
6. Open the hood. Remove the right cover (three retaining tabs).



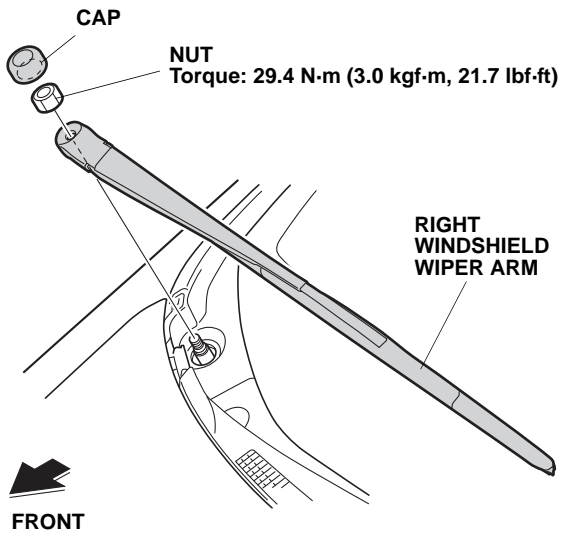
7. Remove the left cover (three retaining tabs).



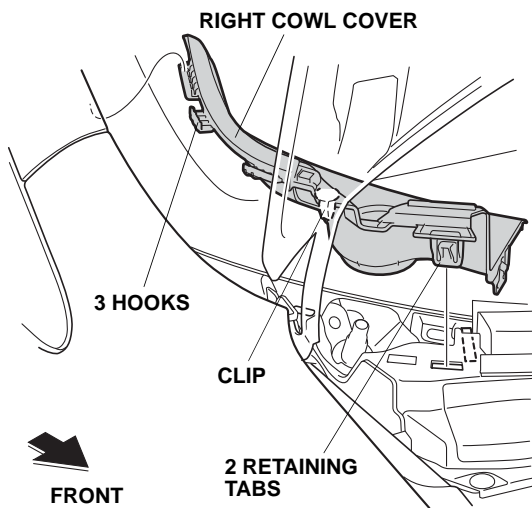
8. Close the hood. Remove the left windshield wiper arm (one cap and one nut).



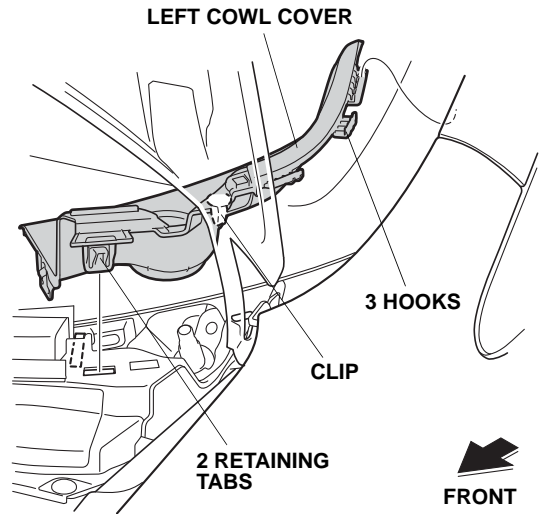
9. Remove the right windshield wiper arm (one cap and one nut).



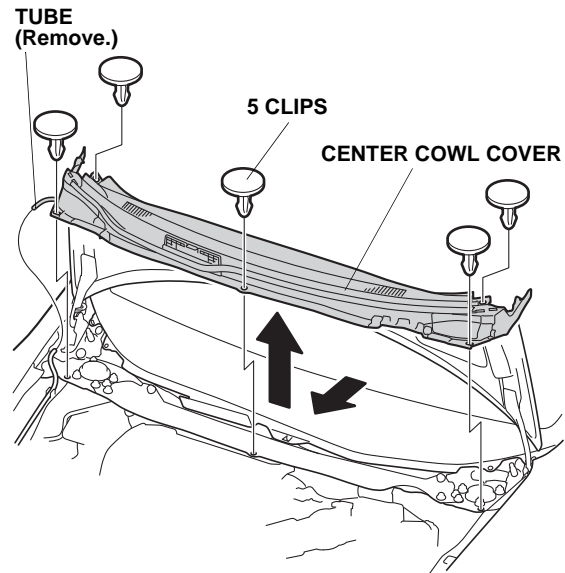
10. Open the hood. Remove the right cowl cover (two retaining tabs, one clip, and three hooks).



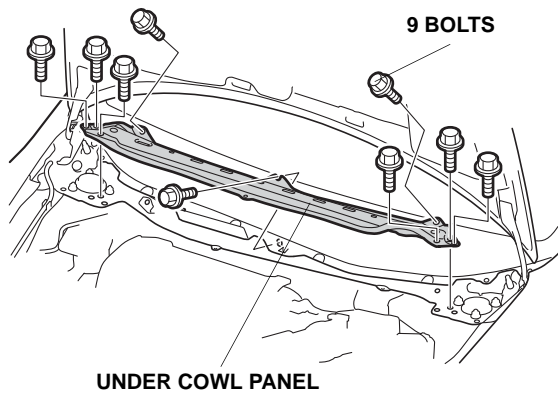
11. Remove the left cowl cover (two retaining tabs, one clip, and three hooks).



12. Remove the center cowl cover (five clips and tube).

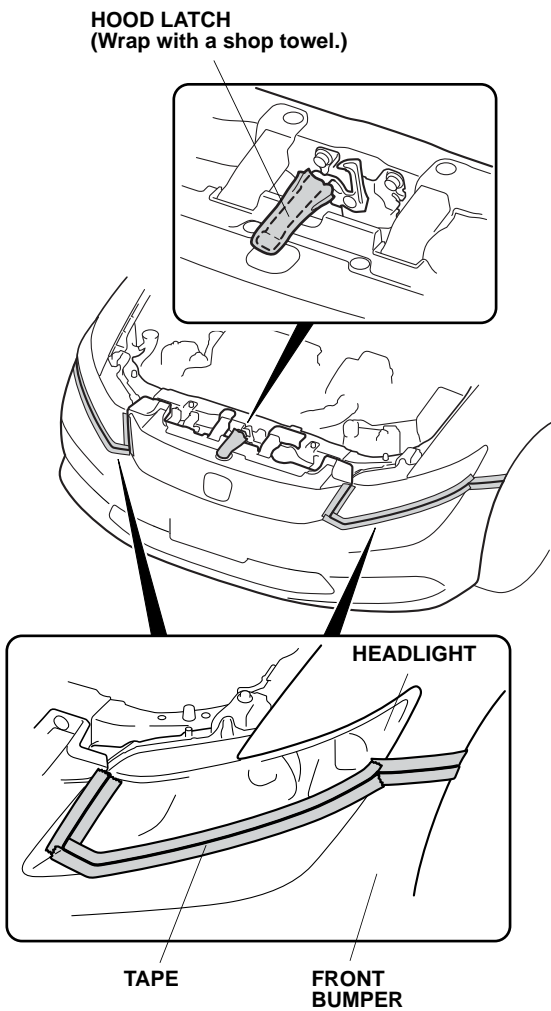


13. Remove the under cowl panel (nine bolts).

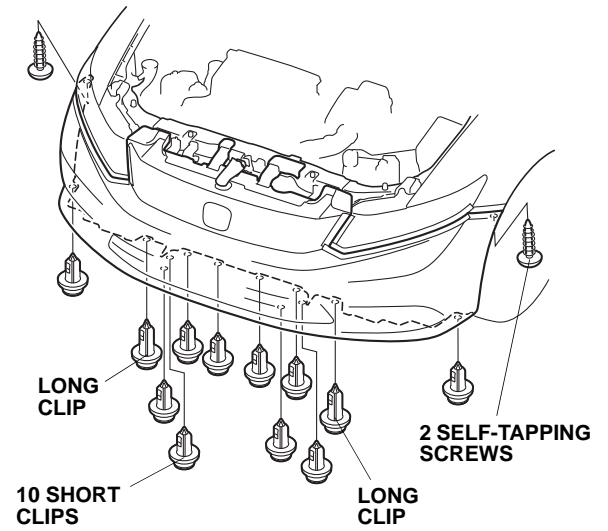


14. Remove the front bumper:

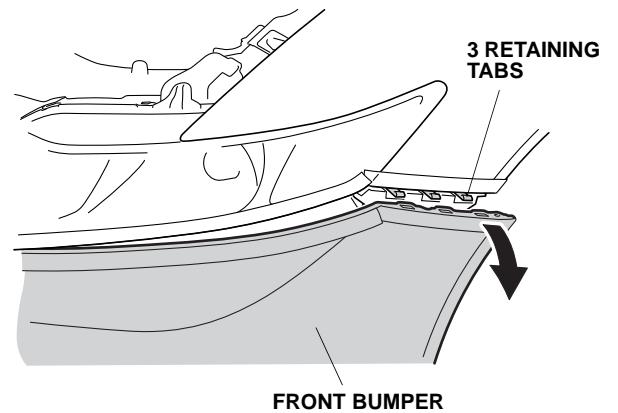
- On each side, attach tape to the areas shown.
- Wrap a shop towel around the hood latch.



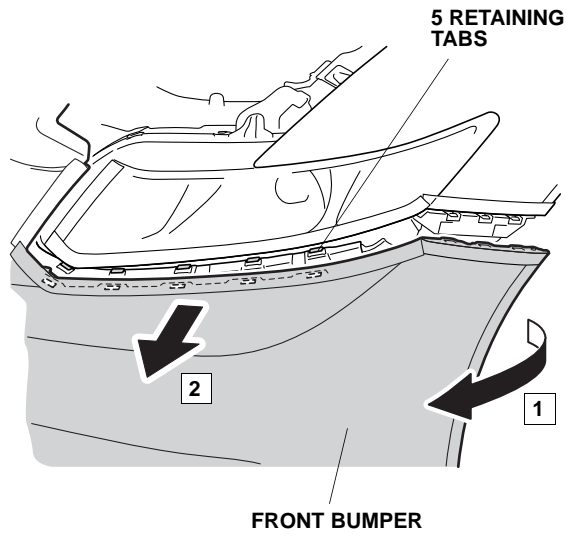
- Remove the two self-tapping screws, 10 short clips, and two long clips.



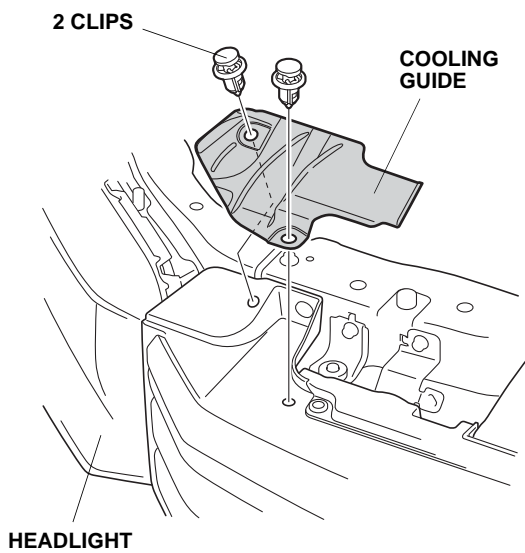
- Release three retaining tabs on each side.



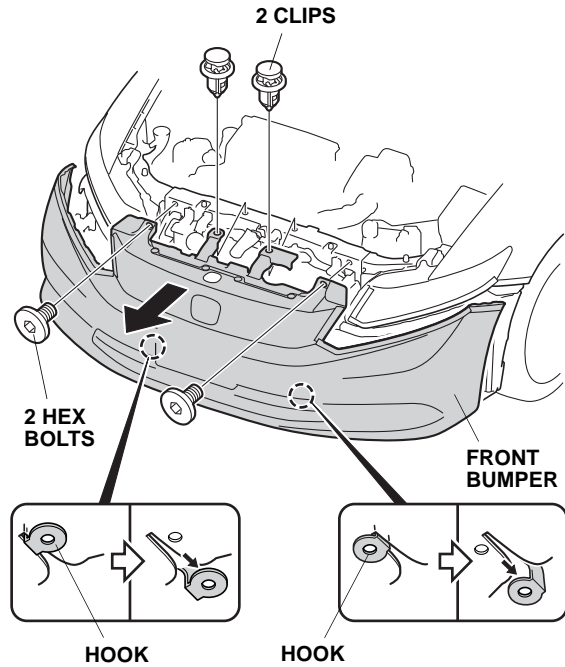
- Release five retaining tabs on each side.



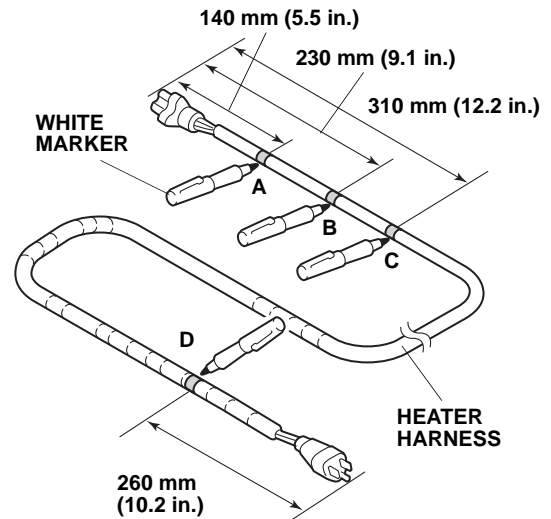
- Remove the cooling guide (two clips).



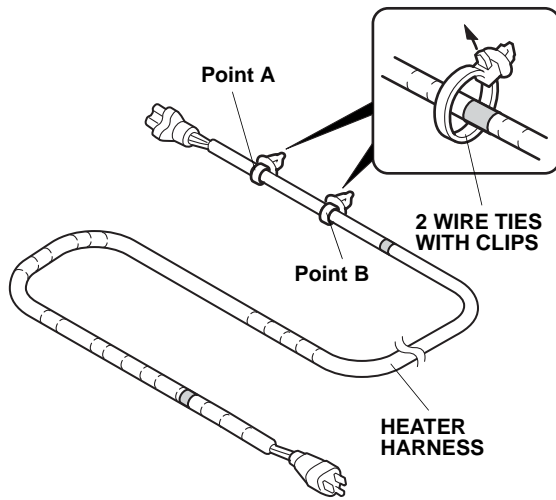
- With the help of an assistant, remove the front bumper (two hex bolts and two clips). Place the front bumper on a blanket to prevent damage.



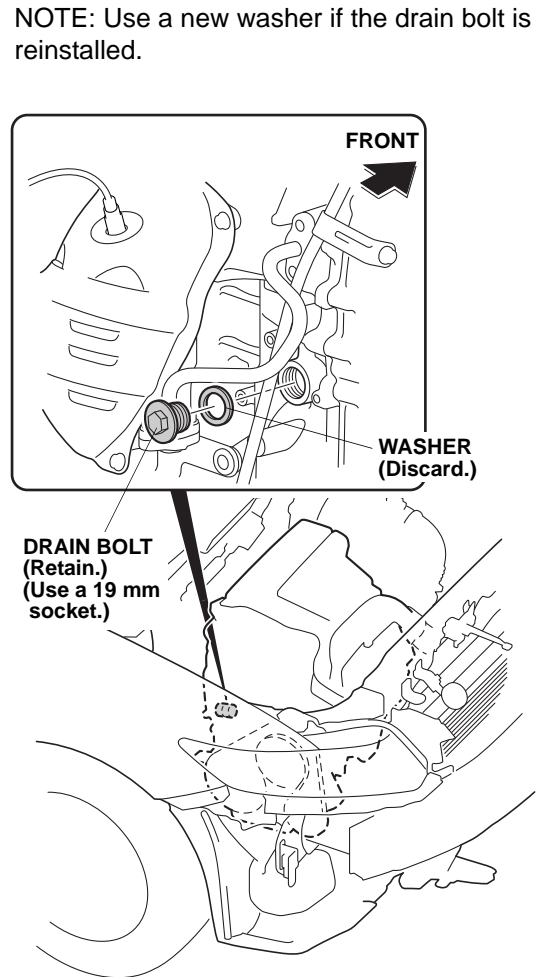
15. Measure and mark the heater harness at the A, B, C, and D points shown.



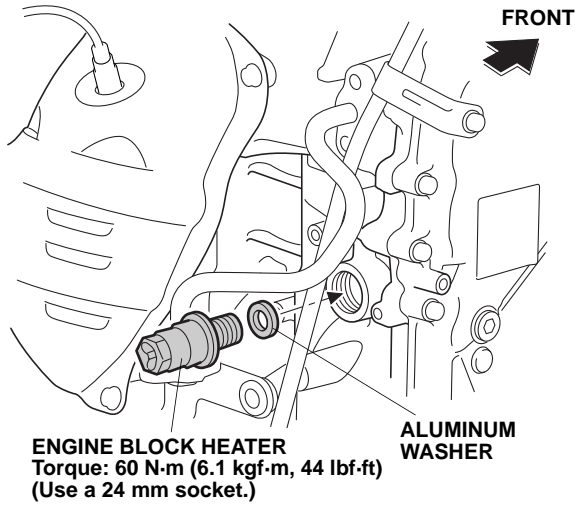
16. Install two wire ties with clips to the heater harness at points A and B.



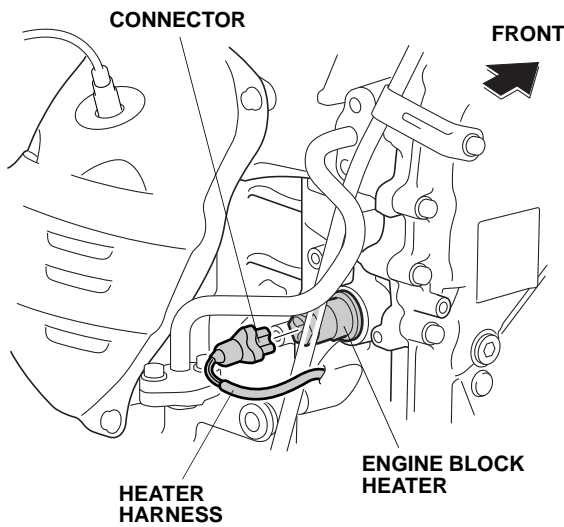
17. Locate and remove the drain bolt and washer. Coolant remaining in the engine jackets flows out of the hole when the bolt is removed. Retain the bolt; it will be used if the block heater is removed.



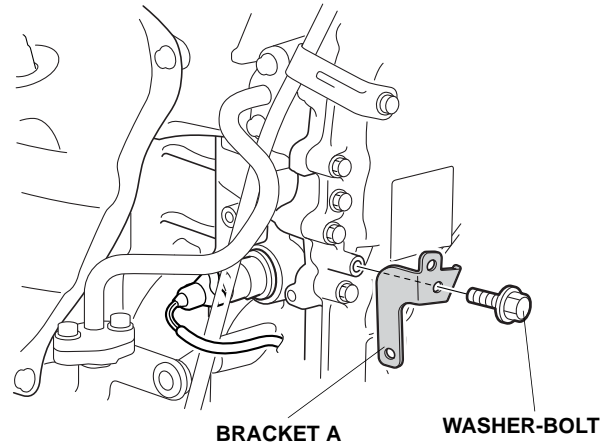
18. Install the engine block heater and aluminum washer into the bolt hole with a 24 mm socket and a torque wrench. Torque the engine block heater to 60 N·m (6.1 kgf·m, 44 lbf·ft).



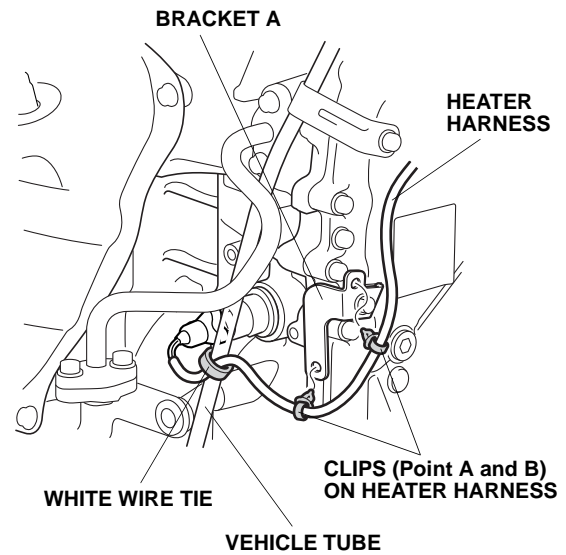
19. Plug the connector end of the heater harness into the engine block heater.



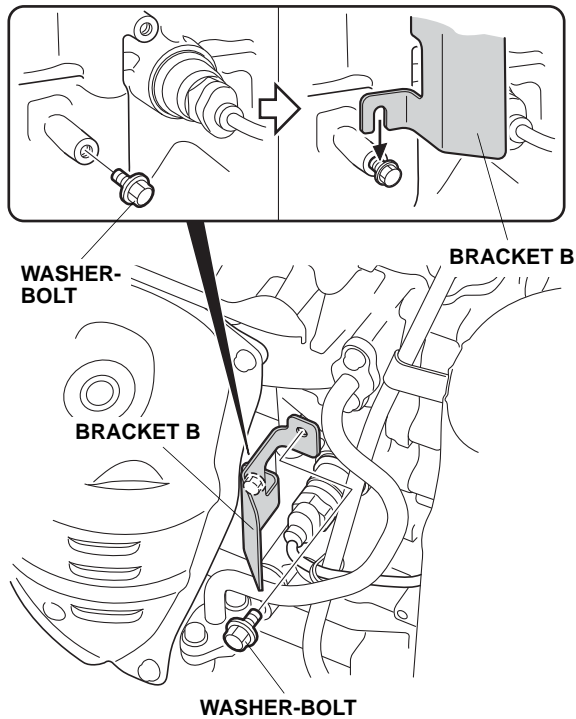
20. Using one washer-bolt, install bracket A as shown.



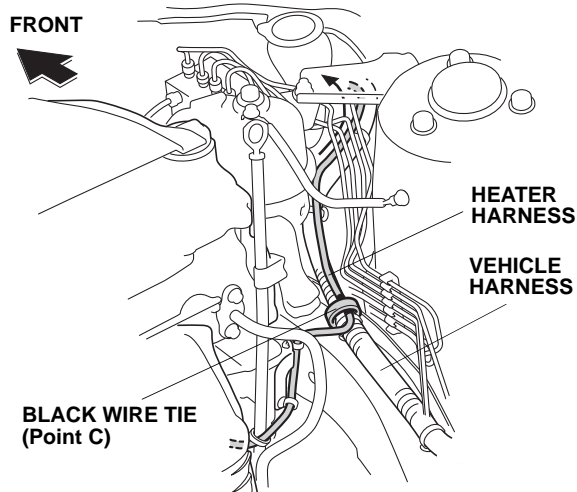
21. Secure the two clips (points A and B) on the heater harness to bracket A. Secure the heater harness to the vehicle tube with one white wire tie.



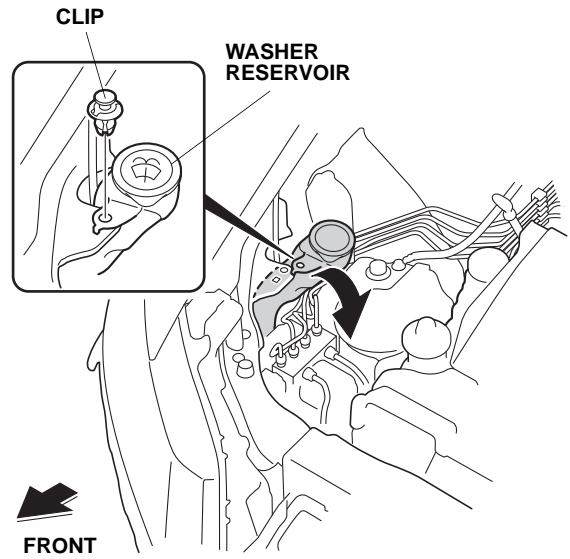
22. Loosely install one washer-bolt. Install bracket B over the washer-bolt, then secure it with the second washer-bolt.



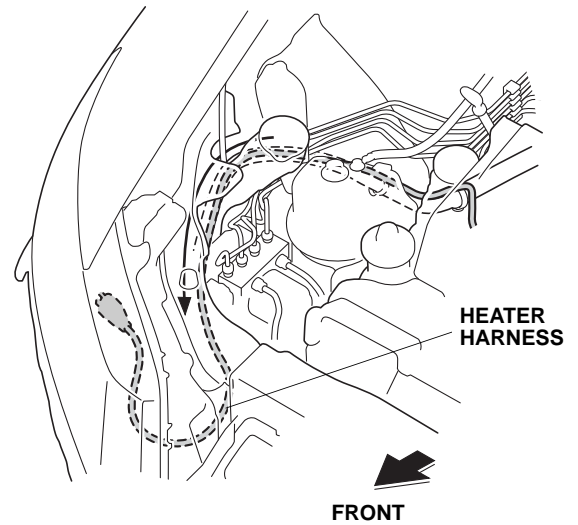
23. Tighten the washer-bolts.
 24. Route the heater harness as shown. Secure the heater harness to the vehicle harness one black wire tie at the mark (point C) you made.



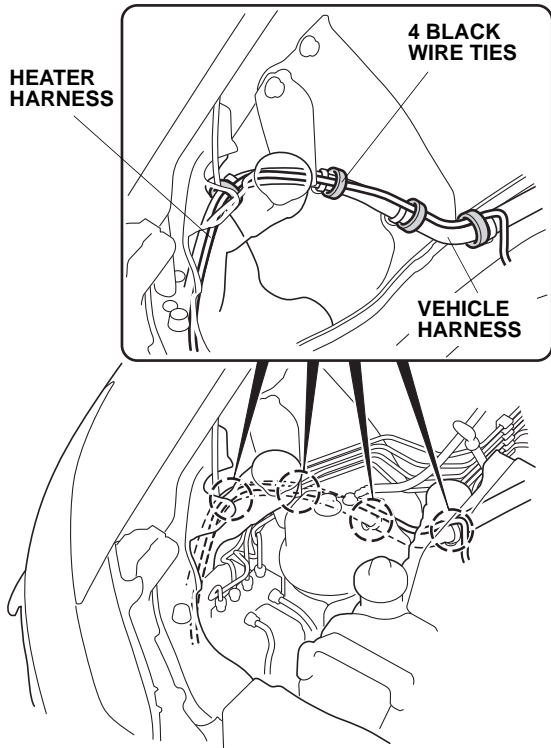
25. Move the washer reservoir aside (one clip).



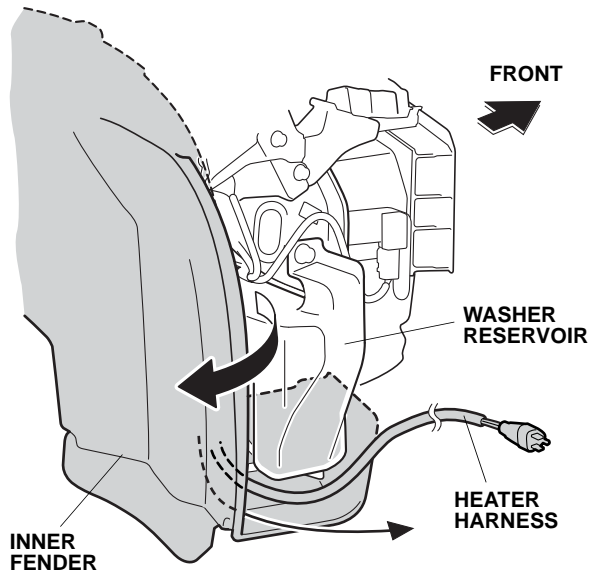
26. Route the heater harness as shown.



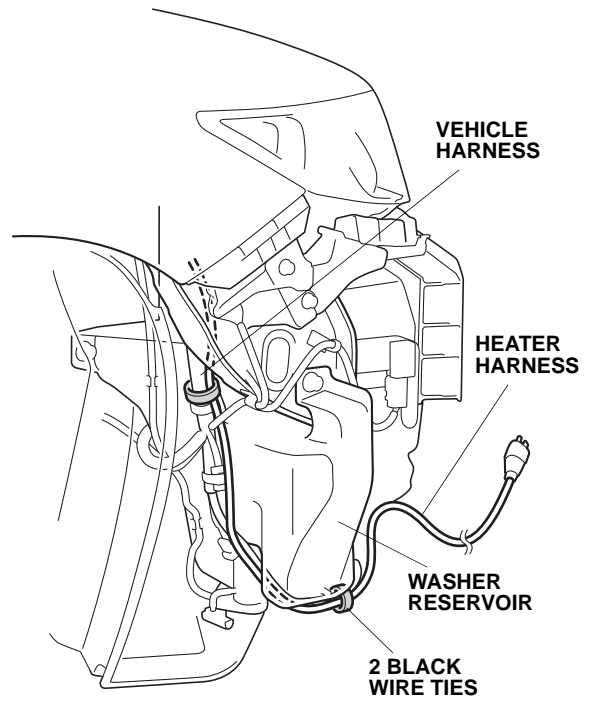
27. Using four black wire ties, secure the heater harness to the vehicle harness.



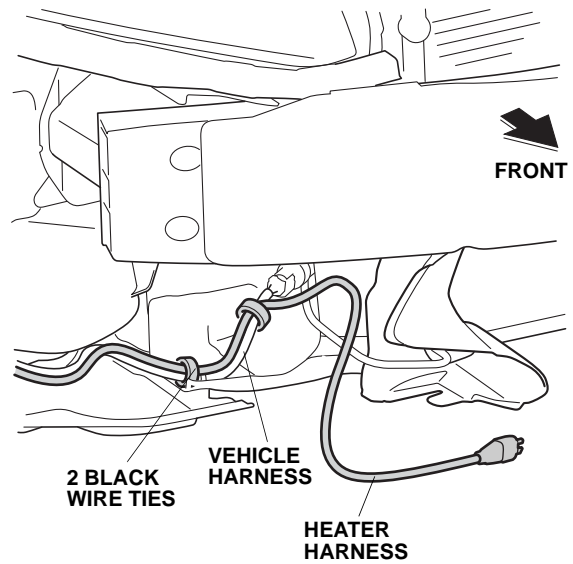
28. Pull the inner fender away from the washer reservoir, then route the heater harness as shown.



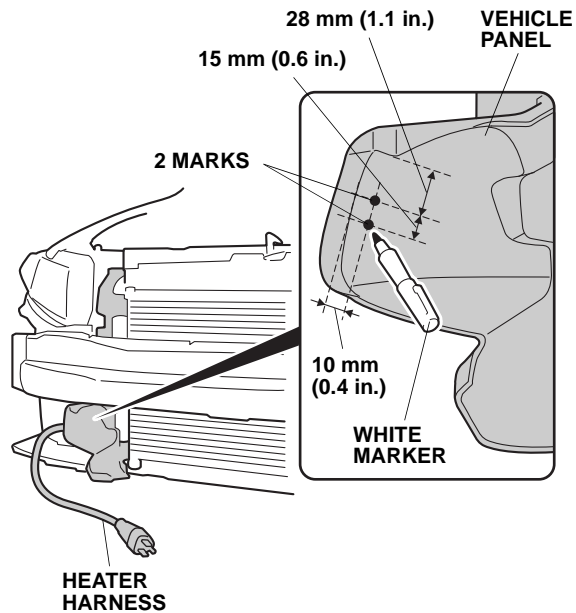
29. Using two black wire ties, secure the heater harness to the vehicle harness as shown.



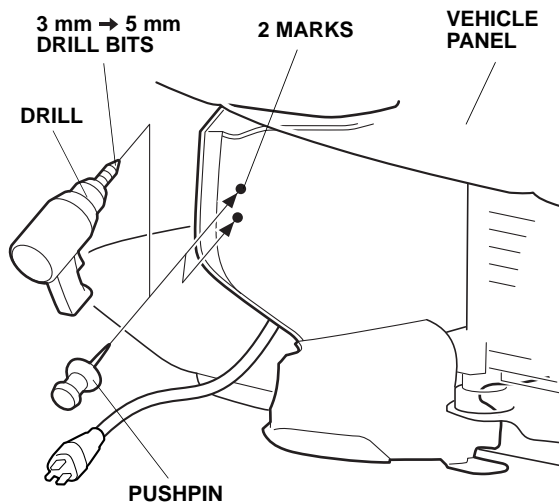
30. Using two black wire ties, secure the heater harness to the vehicle harness.



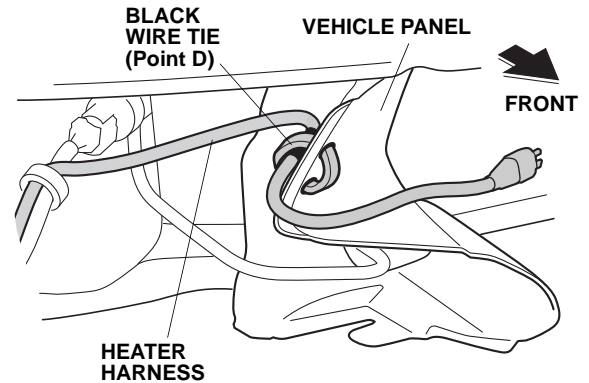
31. Using a white marker, mark the vehicle panel as shown.



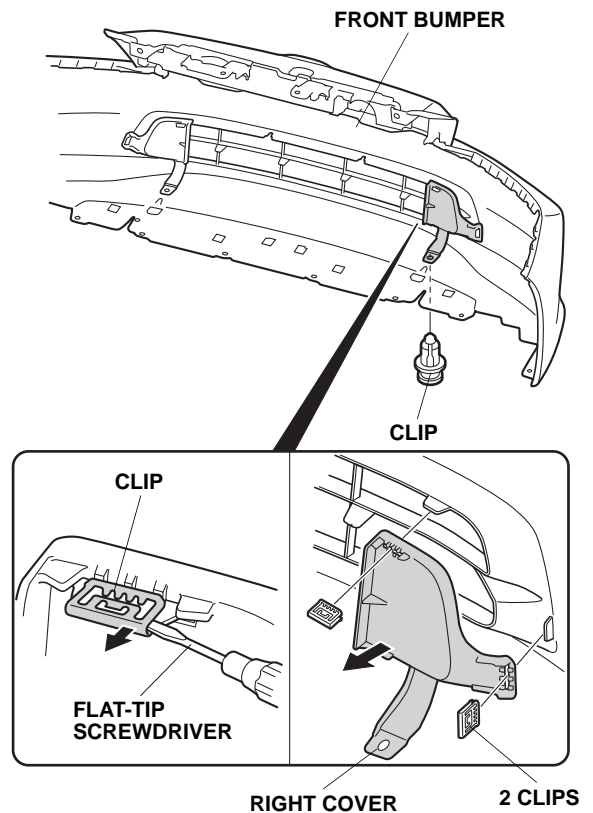
32. Using a pushpin, pierce the two marks you made. While wearing eye protection, drill the two pierced marks with a 3 mm drill bit, then enlarge the holes with a 5 mm drill bit. Remove any burrs.



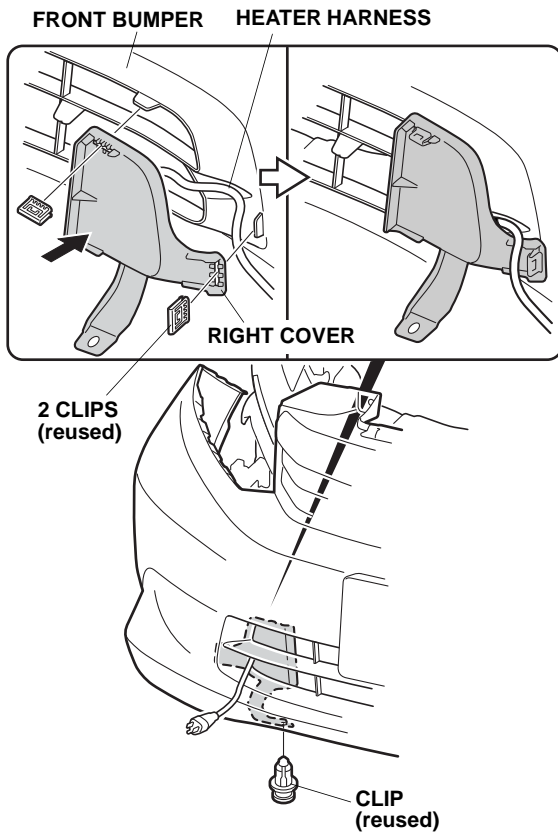
33. Secure the heater harness to the holes with one black wire tie at the mark (point D) you made.



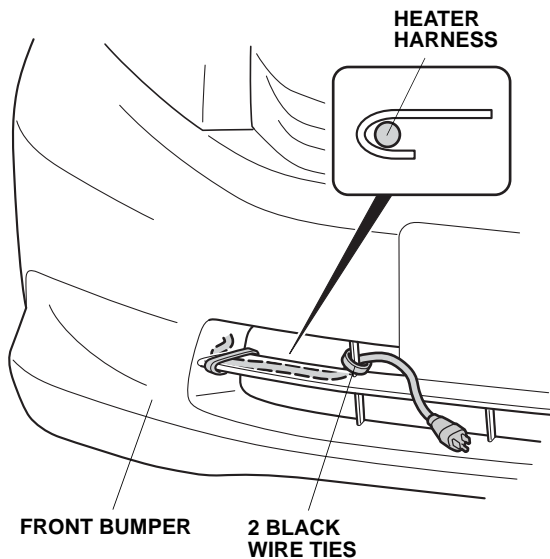
34. Remove the right cover (three clips) from the front bumper. Take care to not damage the clips.



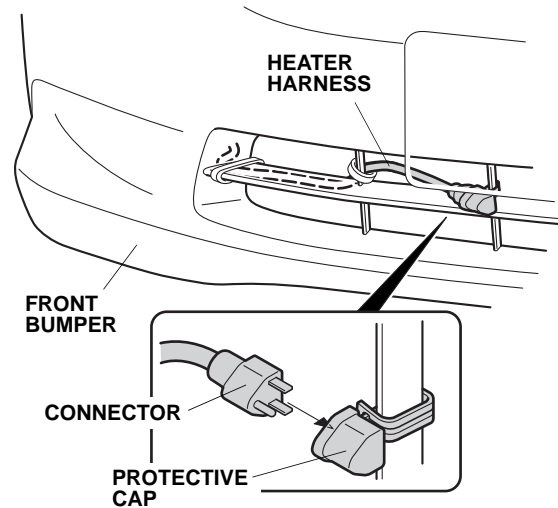
35. Route the heater harness as shown. With help from an assistant, reinstall the right cover and the front bumper.



36. Route the heater harness inside the front bumper and secure it with two black wire ties.



37. Attach the protective cap to the front bumper. Plug the heater harness connector into the protective cap.



38. Reinstall all removed parts except for the radiator cap. Torque the windshield wiper arm nuts to 29.4 N·m (3.0 kgf·m, 21.7 lbf·ft).
39. Reinstall the radiator drain plug.
40. Fill the system with the recommended coolant. Follow the instructions described in the service manual to fill and bleed the cooling system.
41. Check the coolant reservoir for the correct level and check the cooling system for any leaks. Repair as necessary.
42. Check that the heater harness is routed properly and all connectors are plugged in.
43. Reinstall the radiator cap.
44. Put the drain bolt (removed in step 17) in the glove box.
45. Reconnect the negative cable to the battery.
46. Press and hold the radio power button for two seconds to restore the radio and navi (if equipped) system functions.
47. Reset the clock.
48. If the IMA battery level gauge is at zero, start the engine and hold the rpm between 3,500 and 4,000 (no load) in P or N position until the Charge/Assist meter indicates the IMA system has stopped charging the battery.