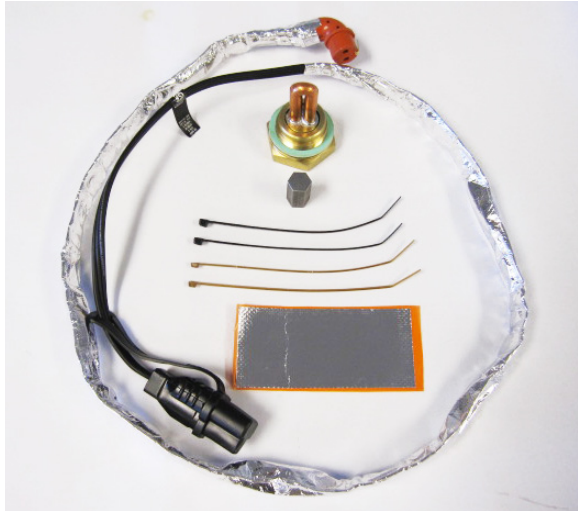

 <b>SUBARU</b>	<b>PART NUMBER: A091SFJ000</b>		
	<b>DESCRIPTION: ENGINE BLOCK HEATER KIT</b>		
<b>Installation Instructions</b>			
<b>KIT CONTENTS:</b>			
	<b>A</b> Block Heater Element W/ Gasket	<b>B</b> Heater Harness W/Integrated Mounting Clips	<b>C</b> 14mm Hex Bit Tool
	<b>D</b> Black Wire Ties (2x) Gold High Temp Wire Ties (2x) Aluminum Tape 40 x 110mm		
<b>TOOLS / MATERIALS REQUIRED:</b>			
<ul style="list-style-type: none"> <li>• 3/8" &amp; 1/2" Drive ratchets</li> <li>• Socket extension 1/2" drive (6" long)</li> <li>• 3/8" Drive extension (3" long)</li> <li>• 1/2" Breaker bar</li> <li>• 14mm socket- shallow (1/2" drive)</li> <li>• 14mm wrench</li> <li>• 12mm wrench</li> <li>• Adjustable pliers (large)</li> <li>• Screwdriver (flat blade)</li> <li>• Coolant drain pan</li> <li>• Coolant (mixed to oe specifications)</li> <li>• High temperature gasket compound</li> <li>• <b>NOTE: It is required that the exhaust flange gaskets and rear donut gasket be replaced . These items are sold separately.</b></li> </ul>			
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1  
Remove engine under covers (if equipped) and drain the cooling system.

2  
Loosen exhaust system bolts (6-14mm flange nuts at cylinder heads, 1-14mm support bolt at the center and 2-14mm spring bolts (w/12mm nuts at rear flange).

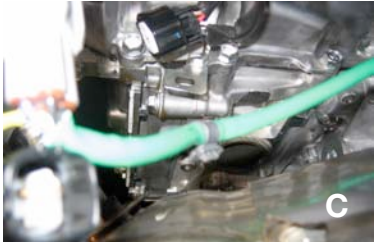
3



**A**




**B**



**C**

**(Photo A & B)** Carefully lower the exhaust, but do not remove.

**(Photo C)** Disconnect two oxygen sensor wire harnesses and release one oxygen sensor wire harness from its mounting location.

4  
  
Remove exhaust system.

5  
  
Locate 36mm threaded core plug on RH side of engine.

6



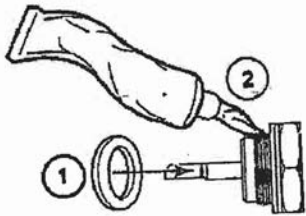
Insert 14mm hex bit into core plug and loosen.

7

Remove core plug and drain remaining coolant.

**NOTE:** Be careful when removing plug as coolant may be hot.

8



Install gasket (1) and coat threads of heater body with high temperature gasket compound (2).

9



Install engine block heater into core plug opening and tighten with adjustable pliers until gasket is seated completely to engine block. **Caution: Failure to follow proper tightening procedures may allow coolant to leak onto the hot exhaust pipe and cause a fire, resulting in serious personal injury and property damage.**

10



Plug harness into heater element. Orient orange connector towards the front by twisting the orange connector inside the heater. Inside of heater can be rotated relative to the outer body.

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11A

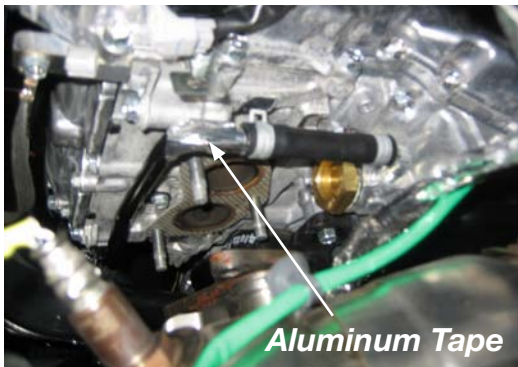
**NON CVT AUTOMATIC & MANUAL TRANSMISSION ONLY.**



Attach block heater harness to the oxygen sensor bracket and wiring harness using the two high temperature gold wire ties included with the kit.

11B

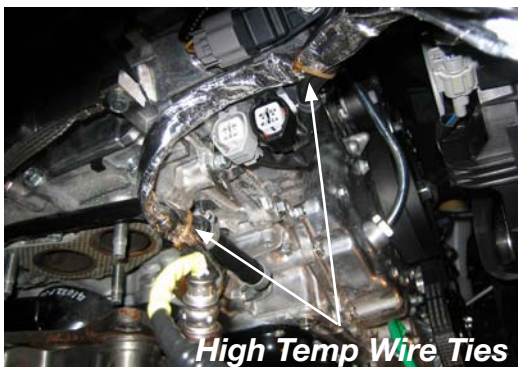
**CVT TRANSMISSION ONLY.**



Using the aluminum tape supplied, wrap the CVT transmission coolant line near the point where it attaches to the rubber hose.

11C

**CVT TRANSMISSION ONLY.**



Using the gold high temperature wire tie provided, attach the block heater harness to the taped section of the CVT transmission cooling line. Route the harness forward above the oxygen sensor electrical connectors. Use the second gold high temperature wire tie to attach the block heater harness to the engine harness next to the black oxygen sensor connector.

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12



Route harness to the lower right hand side of the radiator. Use a black wire tie to attach the block heater harness to the vehicle wiring harness at the lower right corner of the radiator. Leave approximately one inch of relief in harness to allow for engine movement.

13



Route harness around the right side of the radiator and condenser towards the front of the car. Using a black wire tie included with the kit, attach the block heater harness to the A/C condenser bracket as shown.

14



Route block heater harness in front of the A/C condenser and behind the vertical support for the lower air intake opening.

15



Using the male plug protector strap, attach the male plug to the grill-work in the lower air intake area.

16

Re-install exhaust system and engine under covers (if equipped).

17

Refill coolant.

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