



**SUBARU**

**GENUINE PARTS**

**INSTALLATION  
INSTRUCTIONS**

**PART NUMBER: A091SAS000**

**DESCRIPTION: ENGINE BLOCK HEATER  
KIT**



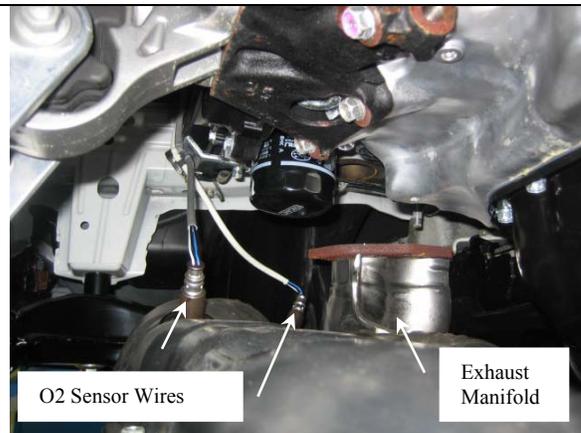
**TOOLS REQUIRED:**

- 3/8" & 1/2" RACHET DRIVE
- SOCKET EXTENSION 1/2" DRIVE 18" LONG
- 14MM ALLEN SOCKET
- 10/12MM SOCKETS
- 27MM DEEP SOCKET 1/2" DRIVE
- TORQUE WRENCH
- FLAT BLADE SCREWDRIVER
- DRAIN PAN
- COOLANT
- HIGH TEMPERATURE GASKET COMPOUND

Remove the lower splash shield and drain the cooling system.

On non-turbo engines it is necessary to unbolt and lower the exhaust system to remove the 36mm plug located at the driver's side front of the engine. Unbolt the exhaust header flanges from the engine and using an exhaust system jack stand lower the system about 6 inches, taking care not to put undue stress on the oxygen sensor wires.

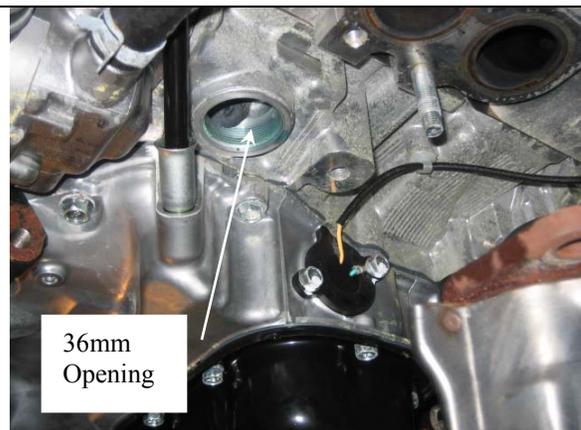
**Note:** On turbo charged engines this step is not necessary.



O2 Sensor Wires

Exhaust Manifold

Remove the 36mm plug located at the driver's side front of the engine. Clean away any residual thread locking compound that may be in the threads of the opening.

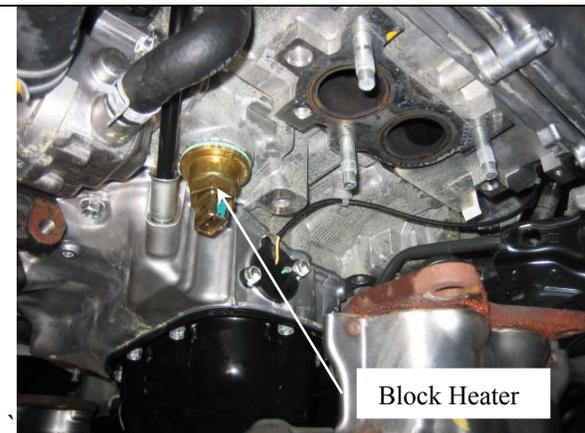


36mm  
Opening

After ensuring that the heater gasket is in position coat the block heater threads with high temperature gasket compound. Start the block heater by hand to avoid cross threading, then torque the heater using a 27mm socket to 34-47 Nm (25-35 ft-lbs).



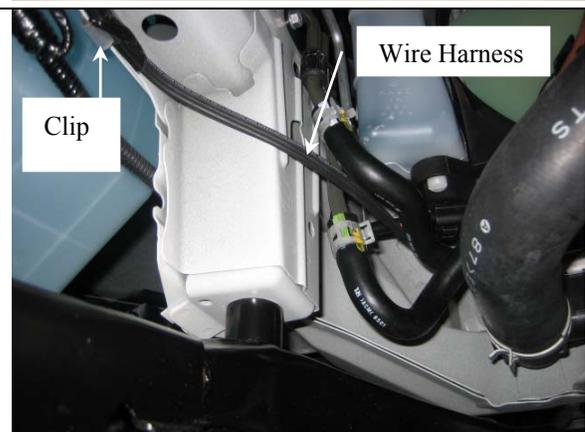
When installed, heater should resemble the picture to the right. Re-install exhaust system components. Refer to shop manual for correct torque values and torque sequence. It is strongly recommended that the exhaust header gaskets be replaced with new gaskets.



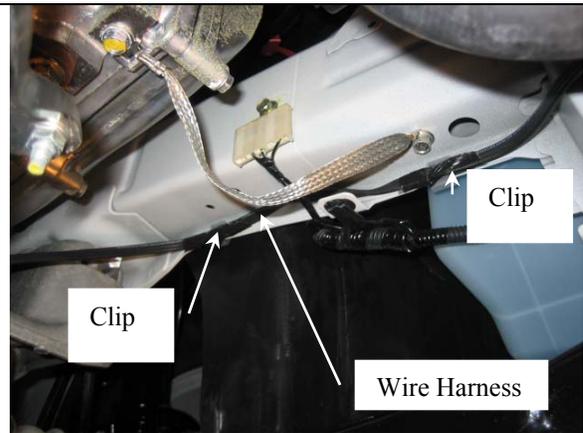
Starting at the front of the vehicle feed the harness from the front fascia around the driver's side of the radiator into the engine compartment. The male plug should be attached to the sensor using the plug protector as shown.



Route harness from the corner of the radiator towards the driver's side frame rail. Attach the harness to the frame rail using the edge biter clip supplied on the harness.



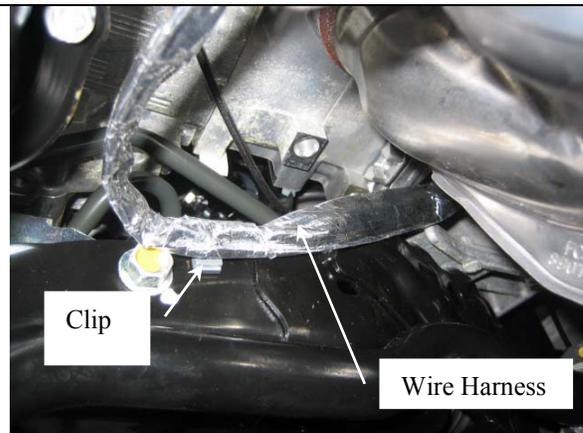
Route harness along driver's side frame rail and use the second edge biter on the harness to attach the harness to the frame rail.



Route the harness from the driver's side frame rail to the front sub frame.



Route the harness across the front sub frame towards the vehicle centerline. Attach the harness to the front sub frame using the third edge clip provided on the harness.



Route the harness forward from the front sub frame to the block heater.  
Refill the cooling system with 1:1 mixture of antifreeze/water. Refer to the shop manual for the correct procedure to fill and bleed the cooling system.

