



INSTALLATION INSTRUCTIONS

2011 MAZDA2 1.5L L4

Part Number: 0000 88 15M2 CB
Block Heater & Harness Installation Procedure

PARTS LIST

Engine Block Heater, Cord set, Five Tie Straps.

REQUIRED TOOLS

10mm Socket & Extensions

PREPARATION:

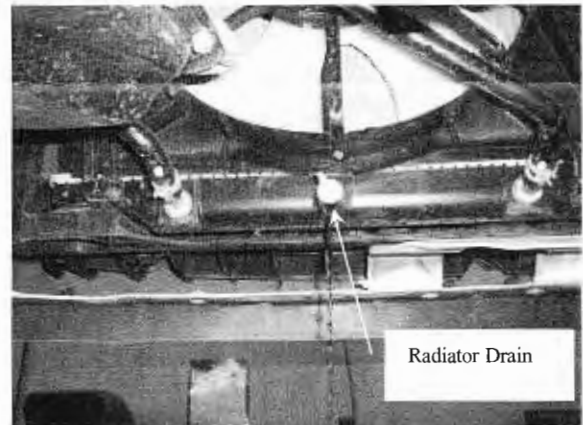
- Read these installation procedures before installing.
- Inspect package for damaged parts.

Before Installation:

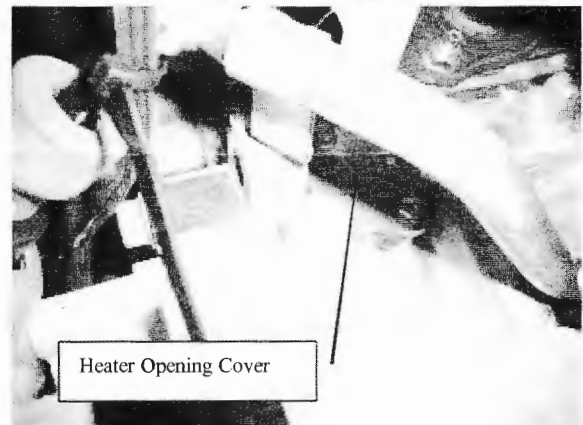
- A) Read entire installation instruction sheet before proceeding.
- B) Allow all engine and cooling system components to cool down.
- C) Write down the pre-set radio stations. The radio memory will be erased when you disconnect the battery. If the radio has a coded theft protection circuit, be sure that you have the anti-theft code before you disconnect the battery.
- D) **Warning-** Plugging in the heater outside of coolant will cause the heater to burn out
- E) Wear eye protection.

INSTALLATION PROCEDURES:

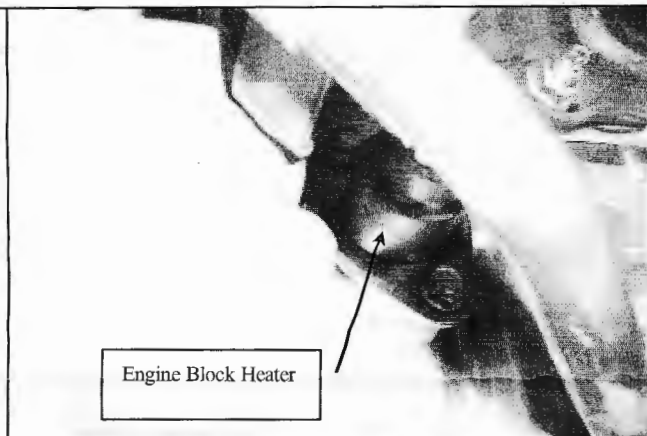
1. Disconnect the negative cable from the battery. Disconnect the positive terminal from the battery. Remove the radiator cap when the engine is cool. Loosen the radiator drain plug and drain the coolant into a clean container and retain. Retighten the plug.



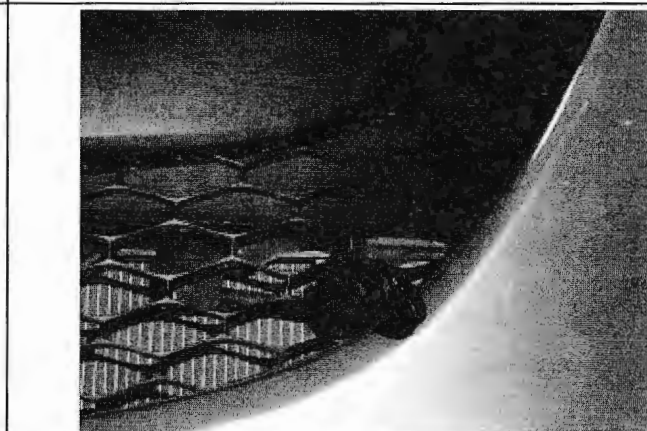
2. The block heater opening is located at the left rear of the engine (as viewed from the driver's seat). Remove the two bolts which secure the block heater opening cover plate and set them aside. Remove the cover and the cover gasket. Ensure that the opening is clean and free of debris.



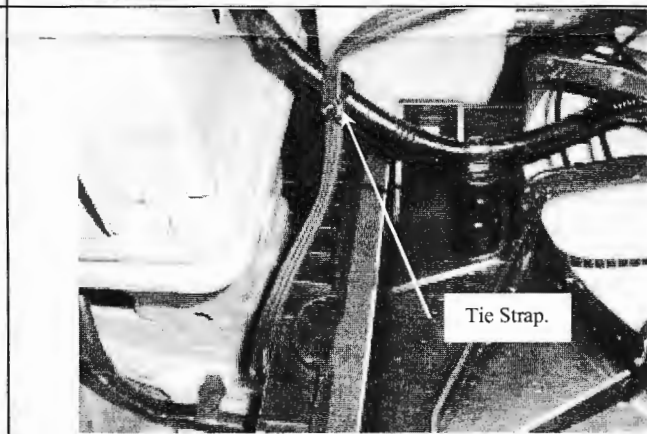
3. Lubricate the heater o-ring with coolant and push the heater into the block heater opening. Orient the heater so that the electrical connector pins are horizontal. Slide the diamond plate over the heater with the relief in the plate facing down. Install the two bolts saved from the cover plate and torque them to 7.8 - 10.8 Nm.



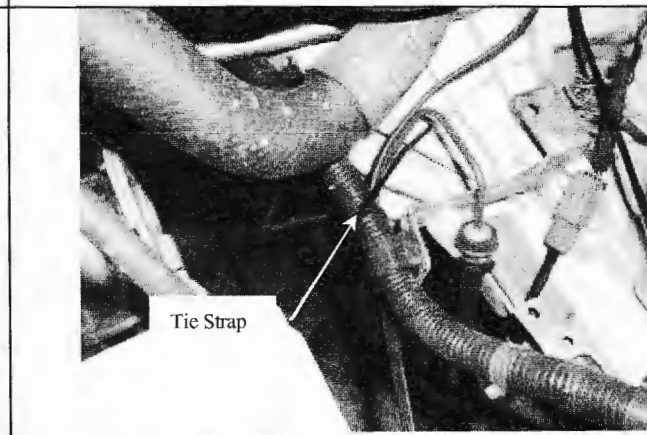
4. Starting at the driver's side of the front fascia. Push the female connector through the grill from the outside. Use the tie strap to attach the harness to the grill near the female plug.



5. Route the block heater harness around the driver's side of the radiator near the front frame rail. Use a tie strap to attach the block heater harness to the vehicle wiring harness located behind the radiator fan shroud.

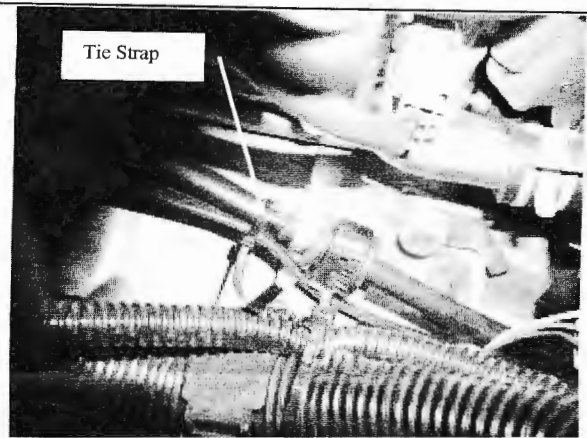


6. Route the block heater harness upward towards the vehicle emission harness located below the upper radiator hose. Attach the block heater harness to the vehicle emission harness using a tie strap.

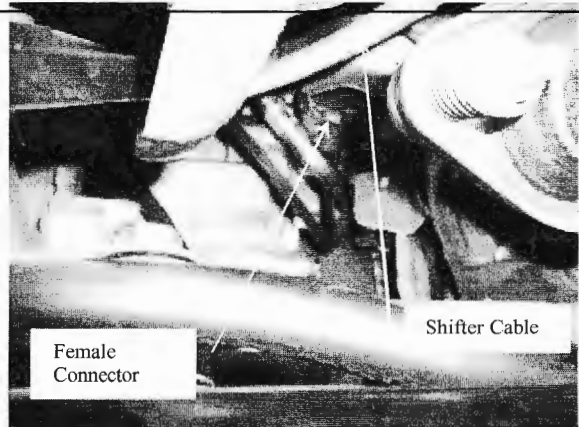


Automatic Transmission

7. Route block heater harness rearward over the transmission housing, along the automatic transmission shifter cable. Using a tie strap attach the block heater harness to the shifter cable above the transmission.

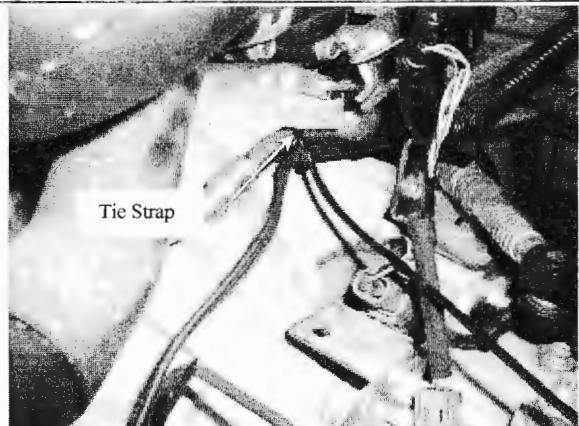


8. Route block heater harness along the shifter cable towards the back of the engine. Using a tie strap, attach the block heater harness to the shifter cable near the forward end of the silver protective wrap on the shifter cable. Loop block heater harness around to the heater and push the female connector into the block heater body.

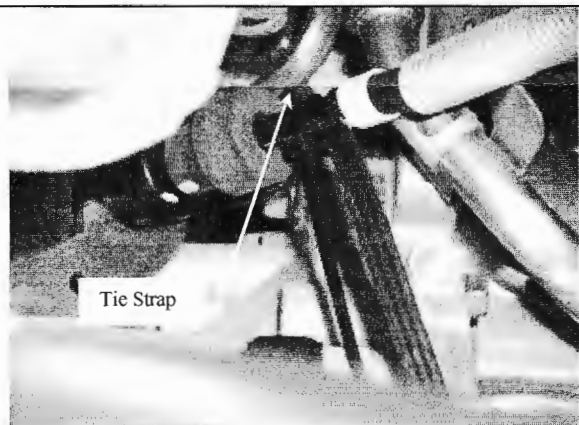


Manual Transmission

7. Route block heater harness rearward over the transmission housing along the steel tube near the bell housing. Using a tie strap attach the block heater harness to the steel tube.



8. Route block heater harness rearwards towards the back of the engine. Using a tie strap, attach the block heater harness to the clutch cable near the forward end of the silver protective wrap. Loop block heater harness around to the heater and push the female connector into the block heater body.



9. Reconnect the positive battery terminal. Reconnect the negative battery terminal.

Refill the radiator with coolant. Momentarily start engine and check for coolant leaks. Please refer to the owner's manual for coolant type, amount and refill instructions.

Reset clock and preset radio stations.

10. Cooling System Bleed Procedure

Caution: Place vehicle in a well ventilated area and set the parking brake. Run the engine at idle for about 10-14 minutes, and then perform the following procedures.

- Run the engine at 2500 Rpm for about 5 minutes
- Increase the engine speed to 3000 Rpm for about 5 seconds and then release the accelerator
- Do this 5 times
- Make sure the engine temperature gauge does not reach the hot zone.
- Monitor coolant and add as needed during the process.

After turning off the engine, inspect the drain plug and heater for coolant leaks.

When the engine has cooled check coolant level. If it is low, add coolant and repeat bleed process.
