



REACH

THERMOSTAT INSTALLATION MANUAL

INSTALLATION MANUAL

CHANGING A VEHICLE'S COOLANT THERMOSTAT

Follow these step-by-step instructions to replace a vehicle's coolant thermostat safely and effectively.

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TOOLS AND MATERIALS NEEDED

1. New coolant thermostat
2. Coolant
3. Socket set
4. Wrench set
5. Screwdrivers
6. Pliers
7. Coolant catch pan
8. Gasket scraper or razor blade
9. Gasket sealer (if necessary)
10. Safety glasses
11. Gloves



STEPS FOR CHANGING THE COOLANT THERMOSTAT

STEP 1: PARK AND PREPARE

1. Park the vehicle on a flat, level surface and engage the parking brake.
2. Allow the engine to cool down completely before starting the replacement process.
3. Wear safety glasses and gloves to protect yourself from hot coolant and other potential hazards.



STEP 2: **LOCATE THE THERMOSTAT HOUSING**

1. Locate the thermostat housing at the engine block, where the upper radiator hose connects.
2. Consult the vehicle's manual if you are unsure about its location.



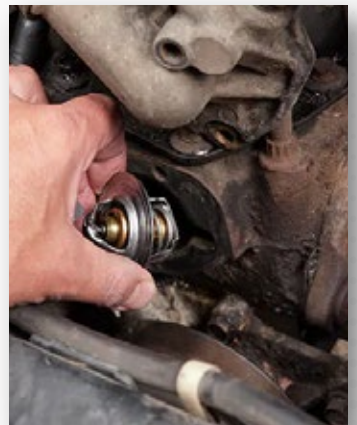
STEP 3: **DRAIN COOLANT**

1. Place a coolant catch pan beneath the vehicle.
2. Loosen the radiator drain plug or remove the lower radiator hose to drain the coolant into the catch pan.
3. Allow the coolant to drain completely.



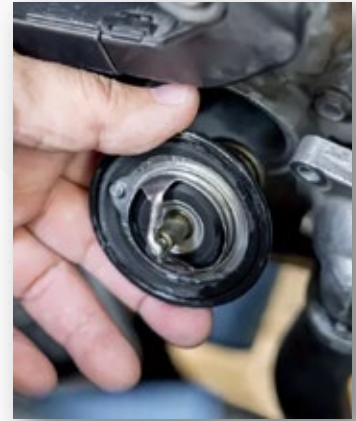
STEP 4: **REMOVE THERMOSTAT HOUSING**

1. Use a socket set to loosen and remove the bolts or nuts securing the thermostat housing to the engine block.
2. Carefully lift off the thermostat housing and set it aside.
1. Take note of the orientation of the thermostat.



STEP 5: **REMOVE OLD THERMOSTAT**

1. Remove the old thermostat from the thermostat housing.
2. Ensure you remember the position of the old thermostat for proper installation of the new one.



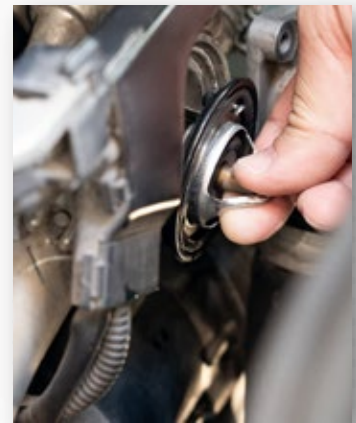
STEP 6: **CLEAN SURFACES**

1. Use a gasket scraper or razor blade to clean any old gasket material or debris from the mating surfaces of both the thermostat housing and the engine block.
2. Ensure the surfaces are clean and smooth for a proper seal.



STEP 7: **INSTALL NEW THERMOSTAT**

1. Place the new thermostat into the thermostat housing, ensuring it is positioned correctly.
2. If applicable, apply gasket sealer or install a new gasket on the mating surface of the thermostat housing.



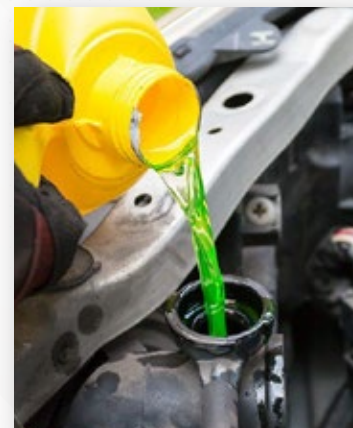
STEP 8: **REINSTALL THERMOSTAT HOUSING**

1. Align the thermostat housing properly with the mounting holes on the engine block.
2. Secure the thermostat housing in place using the bolts or nuts removed earlier. Tighten them securely, being careful not to over-tighten.



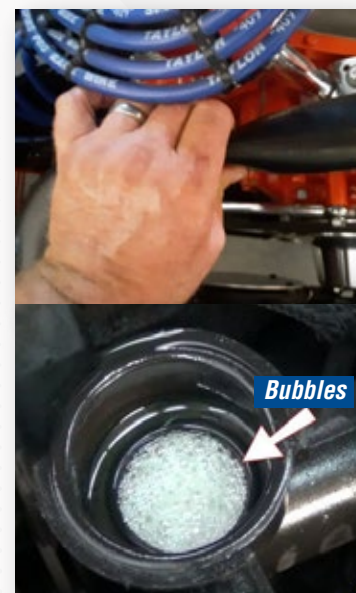
STEP 9: **REFILL COOLANT**

1. Refill the radiator with the appropriate type of coolant as recommended by the vehicle manufacturer.
2. Check the coolant level in the overflow reservoir and top it up if necessary.



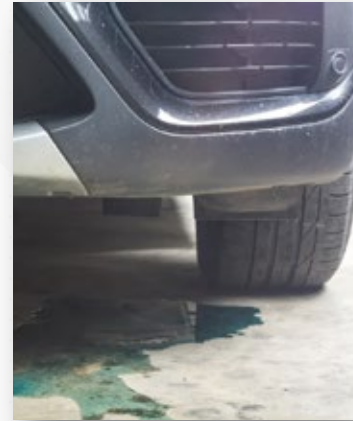
STEP 10: **BLEED AIR FROM COOLING SYSTEM**

1. Start the engine and allow it to run with the radiator cap off.
2. Gently squeeze the upper radiator hose to help release any trapped air from the cooling system.
3. Continue adding coolant as needed until the radiator is full and no air bubbles are observed.



STEP 11: **CHECK FOR LEAKS**

1. Inspect around the thermostat housing and other connections for any signs of coolant leaks.
2. If leaks are detected, shut off the engine and tighten the connections as needed.



STEP 12: **TEST**

1. Once the coolant level is stable and there are no leaks, test the vehicle by driving it for a short distance.
2. Monitor the temperature gauge to ensure the engine operates within the normal range.



CONGRATULATIONS!

**YOU HAVE SUCCESSFULLY REPLACED
THE COOLANT THERMOSTAT IN YOUR VEHICLE.**



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