2019-2021 Subaru Forester - Thermostat Replacement

2019-2021 Subaru Forester | Expert | 4-6 hours

TOOLS

Socket set (10mm and 12mm) Ratchet and extensions Torque wrench Drain pan Funnel OBD-II scan tool Flathead screwdriver Pliers Shop towels Safety glasses Gloves

PARTS

Thermo Control Valve Assembly 21319AA040 $212.00
Intake Manifold Gasket (2 required) 14035AA750
Fuel Delivery Pipe 17540AA460
EGR Gasket 14738AA210
Thermo Control Valve O-Ring 45192FL000
Subaru Super Coolant, 2 gallons (pre-mixed 50/50) SOA868V9270 $68.00

STEPS

1. **Check the warranty first - Have a Subaru dealer run your VIN. Subaru extended thermo control valve** coverage to 15 years or 150,000 miles under TSB 09-119-24. If your car is cov...
2. **Confirm the diagnosis - Scan for codes P26A3, P26A5 or P2682. A failed thermo control valve usually sets** one of these and puts the car into fail-safe mode: EyeSight and X-Mo...
3. **Disconnect the battery - Work on a cold engine. Record any stored seat positions first, then disconnect** the negative battery cable. When you reconnect it later, the battery s...
4. **Drain the coolant - Put a drain pan under the radiator drain and open it until the coolant level drops** below the valve. The factory fill is blue Subaru Super Coolant. Ca...
5. **Remove the air intake - Unclamp the air intake boot and move the air cleaner assembly aside so you have** working room over the top of the engine.
6. **Relieve fuel pressure and remove the fuel delivery pipe - The high-pressure fuel delivery pipe has to come** off to reach the valve. Relieve fuel pressure first and keep all ignition sources away. The pipe is...
7. **Disconnect the EGR pipe and remove the intake manifold - Unplug the wiring connectors and hoses on the** intake manifold, disconnect the EGR pipe, then unbolt the manifold and lift it off. The EGR gasket (147...
8. **Remove the old thermo control valve - Unplug the valve's electrical connector, remove its mounting bolts** and lift the valve out. Note the O-ring seat and check for coolant residue inside...
9. **Install the updated valve - Fit the redesigned valve, part number 21319AA040, with the new O-ring** (45192FL000). Do not install an old-stock 21319AA010 built before June 2021, it...
10. **Reinstall the intake manifold with new gaskets - Fit new intake manifold gaskets (14035AA750, one per** side), the new EGR gasket and the new fuel delivery pipe. Reconnect every hose, connector and th...
11. **Refill and bleed the cooling system - Close the radiator drain and refill with Subaru Super Coolant,** pre-mixed 50/50. Total system capacity is about 9.0 US qt. Run the engine up to operat...
12. **Reconnect the battery and clear the codes - Reconnect the negative battery cable and torque the battery** sensor ground terminal to 7.5 Nm (5.5 ft-lb). Clear P26A3, P26A5 and P2682 with a scan to...
13. **Test drive and verify - Drive the car and confirm the temperature gauge sits steady in the middle, the** heater blows hot, and the EyeSight and X-Mode warnings are gone. Reche...

TORQUE

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