2012-2018 Audi A6 3.0T - Thermostat Housing

2012-2018 Audi A6 | Advanced | 2-3 hours | $200 DIY

TOOLS

10mm Socket Flathead Screwdriver Jack Stands Ratchet Wrench Torque Wrench Fluid Container Funnel Fender Cover Drive Socket #7 Drive Socket #13

PARTS

Thermostat Housing Assembly 4G0.121.121D $150.00
Thermostat O-Ring Seal 4G0.121.121E $20.00
Coolant G013A8J1G $30.00

STEPS

1. **Cool the engine and drain some coolant - Work only on a cold engine. Place a drain pan** under the radiator/lower hose and drain enough coolant to bring the level below the thermostat housing. Capture coolant for reuse or recycling. Wear gloves and eye protection.
2. **Locate and expose the thermostat housing - On the 2012-2018 Audi A6 3.0T: find the** thermostat housing - usually on the engine end of the upper radiator hose, or on a housing fed by a smaller coolant pipe. Remove engine covers, an air-intake tube, or a heat shield if they block ac...
3. **Remove the housing and old thermostat - Twist gently to break the gasket seal - do not** pry against thin aluminum. Lift off the housing and remove the thermostat. Note which direction the spring/jiggle pin faced.
4. **Clean mating surfaces - Clean all old gasket material or RTV from the housing and engine** mating surfaces without gouging aluminum. Check the housing for warpage or corrosion. Replace the rubber gasket/O-ring; do not reuse a crushed seal.
5. **Install the new thermostat and housing - Install the new thermostat in the correct** orientation (spring toward the engine on most designs; jiggle pin at the prescribed clock position if specified). Fit the new gasket, reinstall the housing, and tighten bolts evenly to the specifie...
6. **Refill, bleed, and verify temperature - Refill with the correct coolant. Bleed air, then** run the engine until it reaches operating temperature and confirm the upper radiator hose gets hot (thermostat opened) and the gauge/reading is normal.

TORQUE

Thermostat housing bolts 12 Nm 9 ft-lbs

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