

Select Vehicle | New TSBs | Technician's Reference

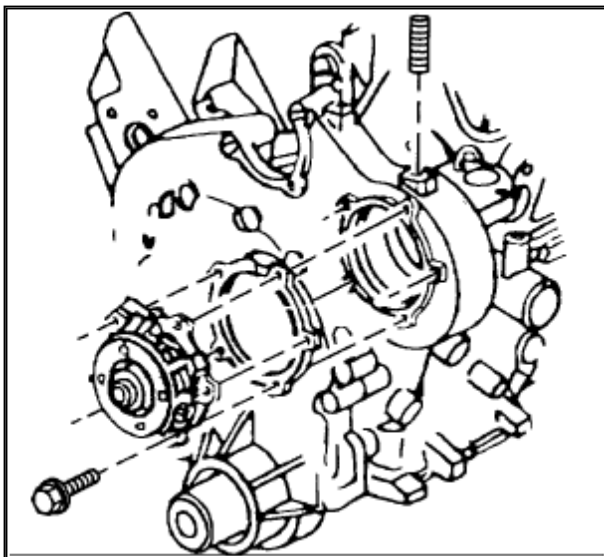
Component Search:

OK

Conversion Calculator

**1999 Pontiac Grand AM V6-3.4L VIN E**[Vehicle Level](#) → [Engine, Cooling and Exhaust](#) → [Cooling System](#) → [Water Pump](#) → [Service and Repair](#) ←**Service and Repair****Removal Procedure****Caution:** Refer to Battery Disconnect Caution in Service Precautions.**Notice:** Refer to Use GM Goodwrench DEX-COOL Coolant in Service Precautions.

1. Disconnect the negative battery cable.
2. Drain the [cooling system](#). Recover the coolant. Refer to Service and Repair.
3. Remove the [drive belt](#).
4. Remove the water pump pulley bolts.
5. Remove the water pump pulley.



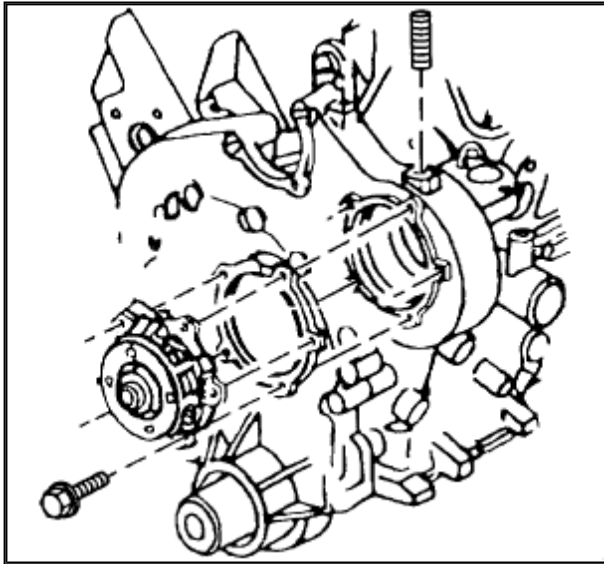
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6. Remove the coolant pump attaching bolts.
7. Remove the coolant pump.
8. Clean the coolant pump and the sealing surfaces.

**Installation Procedure**

**Notice:** Refer to Fastener Notice in Service Precautions.



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1. Install the water pump and new gasket.
  - Tighten the bolts to **10 Nm (89 inch lbs.)** .
2. Install the water pump pulley and the bolts.
3. Install the [drive belt](#).
4. Tighten the water pump pulley bolts.
  - Tighten the bolts to **25 Nm (18 ft. lbs.)** .
5. Connect the negative battery cable.
  - Tighten the bolts to **16 Nm (12 ft. lbs.)** .
6. Refill the [cooling system](#). Refer to Service and Repair.
7. Inspect the [cooling system](#) for leaks.

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