2013-2017 Jeep Grand Cherokee - Water Pump

2013-2017 Jeep Grand Cherokee | Advanced | 2.5-3.5 hours

TOOLS

Socket and ratchet set Serpentine belt tensioner tool or long breaker bar Hose clamp pliers Drain pan (5-gallon) Funnel Torque wrench Shop towels UV leak-detection dye kit (optional, for diagnosis)

PARTS

Water Pump (Mopar 68346915AA) 68346915AA $197.00
Thermostat, 203 Degrees F (Mopar 52028898AJ) 52028898AJ $35.00
Mopar OAT Coolant 50/50 Premix (68163849AB) - 2 Gallons 68163849AB $48.00
Serpentine Belt (2013-2015, Gates K060827) K060827 $61.00
Serpentine Belt (2016-2017, Gates K060820) K060820
Water Inlet Tube O-Ring (Mopar 53013736AA) 53013736AA

STEPS

1. **Check the X73 warranty extension before you pay - FCA TSB 09-006-18 Rev. A extended the water-pump** warranty to 7 years, unlimited miles on 2013-2017 Grand Cherokees with the 5.7L HEMI (built before D...
2. **Confirm the pump is the leak - A failing 5.7L pump leaks from its weep hole and leaves pink crusty** deposits or wetness behind the pulley, and the pulley develops play or a grinding...
3. **Work cold and disconnect the battery - Let the engine cool completely. Never open the cooling system hot;** pressurized coolant causes severe burns. Disconnect the negative battery cable. Wo...
4. **Drain the coolant - Drain the coolant into a pan: open the drain petcock (or loosen the lower hose). The** 5.7L holds 15.4 quarts (16 quarts with Trailer Tow), but a drain...
5. **Remove the intake tube - Remove the air intake tube and resonator for access to the front of the engine.** Loosen the clamps, lift the tube out, and set it aside.
6. **Remove the electric fan and shroud - Unplug the fan connector and remove the electric cooling fan and** shroud as an assembly. The WK2 5.7L uses an electric fan, not a mechanical fan clutc...
7. **Slip the serpentine belt off - Note the belt routing (photograph it), then release the automatic tensioner** with a breaker bar or tensioner tool and slip the belt off the pulleys. I...
8. **Disconnect the hoses from the pump - Disconnect the upper and lower radiator hoses and the heater hose** from the water pump as needed, and disconnect the water inlet tube. Have the drain...
9. **Unbolt the water pump - Unbolt the water pump from the timing cover and lift it out. No timing-cover** teardown is required (unlike the 3.6L V6). Clean the mating surface on t...
10. **Transfer the coolant temperature sensor - Transfer the coolant temperature sensor to the new pump if it** does not include one. Mopar pumps built after March 2013 ship with the sensor; earlier...
11. **Install the new pump, O-ring, and thermostat - Install the new pump with its new gasket (included with the** Mopar pump) and a new water inlet tube O-ring, Mopar 53013736AA; reusing the old O-ring i...
12. **Reassemble - Reinstall the electric fan and shroud, route the new (or original, if still good) serpentine** belt over the pulleys and release the tensioner onto it,...
13. **Refill with OAT coolant and bleed the air - Refill with Mopar OAT coolant, 10 Year/150,000 Mile, MS-90032** (50/50 premix 68163849AB, purple). All 2013-2017 Grand Cherokees use OAT; never mix OAT...
14. **Check for leaks and road test - With the engine at operating temperature, inspect the pump, hoses,** thermostat housing, and bleeder for leaks. Watch the temperature gauge on a short...

ezcarfix.com