

2008-2013 Cadillac CTS | Advanced | 2-3 hours | \$155 DIY

TOOLS

10mm Socket 13mm Socket 15mm Socket
Flathead Screwdriver Jack Stands Torque
Wrench Ratchet Wrench Extension Bar
Pry Bar Drain Pan

PARTS

Water Pump 252-962 \$119.95
Water Pump Gasket 12660159 \$15.00
Coolant 12346290 \$20.00

STEPS

- 1 Cool down and drain the cooling system - Work only on a cold engine. Place a drain pan** under the radiator petcock or lower hose and drain the coolant. Remove the radiator cap to speed draining. Capture coolant for recycling. Wear gloves and eye protection.
- 2 Remove belts and obstructing parts - Remove the serpentine belt (and any splash shields).** On some engines you must remove a pulley, timing cover section, thermostat housing, or heater hose bracket for pump access - photograph routing and bracket positions first.
- 3 Unbolt and remove the water pump - Disconnect hoses from the pump if equipped. Remove all** water-pump bolts (note different lengths). Gently tap or pry the pump free - do not gouge the aluminum block/timing cover mating surface. Watch for trapped coolant.
- 4 Clean surfaces and prepare the new pump - Clean all old gasket material or RTV from the** block and pump flange without scratching sealing faces. Compare impeller, weep hole, and bolt pattern on the new pump. Install any new O-rings, gasket, or the sealant type the maker specifies (...)
- 5 Install the new pump and reassemble - Position the new pump, start all bolts by hand,** then tighten evenly in a crisscross pattern to the specified torque - overtightening cracks housings. Reinstall the pulley, hoses, belt, and any covers removed. Refill with the correct cool...
- 6 Bleed air, run, and leak-check - Bleed air from the cooling system per the vehicle** procedure (bleeder screws, squeeze hoses, or scan-tool electric-pump run). Bring the engine to operating temperature with the cabin heat on and confirm stable temperature with no leaks at t...