2008-2017 Buick Enclave - Timing Chain Replacement

2008-2017 Buick Enclave | Advanced | 8-10 hours | $425 DIY

TOOLS

10mm Socket Flathead Screwdriver Jack Stands Torque Wrench Engine Hoist Timing Chain Tensioner Tool Camshaft Holding Tool Crankshaft Pulley Remover Sealant Applicator Gasket Scraper

PARTS

Timing Chain Kit 9-0753SVVT $300.00
Timing Chain Tensioner 12658253 $50.00
Timing Chain Guide 12658254 $40.00
Crankshaft Seal $20.00
Camshaft Seal 12658256 $15.00

STEPS

1. **Diagnose and prepare for major engine work - Disconnect the negative battery cable. Drain** coolant and oil if the front cover must come off. This is an advanced job - have the service manual torque/timing specs ready.
2. **Remove accessories and the front cover - Remove the serpentine belt, harmonic** balancer/crank pulley, and any brackets blocking the timing cover. Support the engine if a mount must be removed. Unbolt the timing cover carefully and note sealant locations.
3. **Lock the engine at TDC and remove the chain set - Rotate to TDC and install cam/crank** locking tools if specified. Relieve tensioner pressure, remove the chain, guides, and tensioner as a set. Inspect sprocket teeth for hooking or wear and replace sprockets if worn.
4. **Install the new chain, guides, and tensioner - Fit new guides and tensioner, then route** the new chain with colored links or marks aligned to the sprocket marks per the procedure for this engine. Oil the tensioner as required before activation.
5. **Verify timing and reseal the cover - Activate the tensioner, remove locks, and rotate the** engine by hand two full turns - reconfirm all marks. Clean cover mating surfaces and apply the specified sealant bead; install a new front crank seal. Torque cover bolts in sequence.
6. **Refill fluids, start, and listen - Reinstall the balancer, belt, and mounts. Refill oil** and coolant, reconnect the battery, and start the engine. Listen for chain rattle on cold start and watch for oil/coolant leaks at the cover. Clear cam/crank correlation codes and verify...

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