

2008-2014 Infiniti G37 | Advanced | 2-3 hours | \$110 DIY

TOOLS

10mm Socket Ratchet Wrench Torque
Wrench Flathead Screwdriver Jack Stands
Engine Support Bar Rubber Mallet
Sealant Scraper Gasket Remover Funnel

PARTS

Valve Cover Gasket Set 12345-6N000 \$50.00
Spark Plug Tube Seals 12345-6N001 \$20.00
Intake Manifold Gasket 12345-6N002 \$30.00
RTV Silicone Sealant 12345-6N003 \$10.00

STEPS

- 1 Cool the engine and remove covers/intake pieces - Work on a cool engine.** On the Infiniti G37, remove engine beauty covers, intake tubes, or coil packs that block valve-cover bolts. Label ignition coils and wiring so they return to the same cylinders. Wear gloves and eye protection.
- 2 Disconnect PCV/breather hoses and ground straps - Detach PCV hoses, breather lines, and any ground straps bolted to the cover.** Cap open intake ports if needed so debris cannot fall in.
- 3 Unbolt and lift off the valve cover - Loosen valve-cover bolts evenly in a crisscross pattern.** Gently pry the cover free if RTV holds the corners - do not bend the cover or gouge the head. Lift straight up past the camshafts or spark-plug tubes.
- 4 Clean mating surfaces thoroughly - Remove all old gasket material and RTV from the head and cover with plastic scrapers and solvent.** Clean spark-plug tube seals if separate. Ensure bolt holes are clear of oil so torque readings stay accurate.
- 5 Install the new gasket and reassemble - Fit the new gasket (and tube seals) dry or with the sealant dots the manual specifies at T-joints.** Set the cover in place, start all bolts by hand, then torque in sequence to spec - overtightening cracks covers and causes new leaks.
- 6 Reinstall coils/hoses and leak-check - Reconnect coils, harnesses, and PCV hoses.** Start the engine and inspect the gasket perimeter and tube seals for oil seepage. After a heat cycle and short drive, recheck torque visually (do not routinely re-torque unless specified) and wipe...

TORQUE

Valve cover bolts (in sequence) 10 Nm 89 ft-lbs