

GENERAL INFORMATION

TORQUE SPECIFICATIONS - ENGINE

NOTICE

Reference assembly illustrations for torque values not listed in table.

WARNING

Never re-use locking flange nuts (lock nuts). Always replace locking flange nuts with new parts after removal. Some screws / bolts are pre-coated with thread locking agent. Always replace these fasteners with new parts, or apply thread locking agent to threads prior to installation.

ENGINE FASTENERS

ENGINE	
ITEM	TORQUE
Intake Tube Air Box Fastener	36 in-lbs (4 Nm)
Oil Tank Fastener	7 ft-lbs (9 Nm)
Throttle Cable Lock Nut	44 in-lbs (5 Nm)
Throttle Body Adapter Plate Gear Clamps	11 in-lbs (1.24 Nm)
Air Box Throttle Body Gear Clamps	11 in-lbs (1.24 Nm)
Air Box Coil Fasteners	ft-lbs (Nm)
Engine Mount Fasteners	40 ft-lb (54 Nm)
Engine Mount Fasteners <i>Left Front Mount</i>	26 ft-lbs (35 Nm)
Front MAG Engine Mount Base Fasteners	22 ft-lb (30 Nm)
Rear MAG Engine Mount Base Fasteners	26 ft-lbs (35 Nm)
Spark Plug	22 ft-lb (30 Nm)
Cooling Hose Clamp	5 ft-lbs 7 Nm
Coolant Bottle Bracket Fasteners	7 ft-lbs (9 Nm)

850 PATRIOT ENGINE TORQUE VALUES

ENGINE	
ITEM	TORQUE
Cylinder Head Fasteners (M8 x 1.25 x 50)	20 ft-lbs (28 Nm)
Spark Plug	22 ft-lbs (30 Nm)
Cylinder Fasteners (M10 x 1.50 x 83)	51 ft-lbs (69 Nm)
Cylinder Fasteners (M10 x 1.50 x 127)	51 ft-lbs (69 Nm)
Crankcase Fasteners (M8 x 1.25 x 50)	32 ft-lbs (43 Nm)
Crankcase Fasteners (M8 x 1.25 x 80)	26 ft-lbs (35 Nm) <i>Apply engine oil to fastener threads prior to installation.</i>
Stator Fasteners (M6 x 1.0 x 32)	12 ft-lbs (16 Nm)
Flywheel Flange Nut (M14 x 1.50)	90 ft-lbs (122 Nm)
CPS Fasteners (M5 x 0.8 x 10)	53 in-lbs (6 Nm)
Recoil Starter Pulley Fasteners	10 ft-lbs (13 Nm) <i>Apply Loctite 262</i>
Engine Mount Fasteners (M8 x 1.25 x 20)	18 ft-lbs (24 Nm)
Engine Mount Bracket Nut (M8 x 1.25)	18 ft-lbs (24 Nm) <i>Hold mount in place when torquing</i>
Water Pump Cover Fasteners (M6 x 1.0 x 20)	9 ft-lbs (12 Nm)
Water Pump Driven Shaft Nut (M8 x 1.25)	9 ft-lbs (12 Nm)
EV Valve Push / Pull Cable	9 ft-lbs (12 Nm)
Exhaust Valve Tiebar Fasteners (M6 x 1.0 x 16)	14 ft-lbs (19 Nm)
EV Valve Push / Pull Cable Fastener (M6 x 1.0 x 12)	9 ft-lbs (12 Nm)