

Cylinder Head

Cylinder Compression Measurement

- Start the engine.
- Thoroughly warm up the engine so that the engine oil between the piston and cylinder wall will help seal compression as it does during normal running.
- Stop the engine.

- Remove:
 - Fuel Tank (see Fuel Tank Removal in the Fuel System chapter)
 - Block Cut (A)
 - Spark Plug (see Spark Plug Cleaning and Inspection in the Periodic Maintenance chapter)

Special Tool - Spark Plug Wrench, Rev 16: 87001-1202

Owner's Tool - Spark Plug Wrench: 82110-1172

- Attach the compression gauge (A) and the adapter hose (B) firmly into the spark plug hole.
- With the throttle fully open, turn the engine over sharply with the kickstarter several times until the compression gauge stops rising; the compression is the highest reading attainable.

Special Tools - Compression Gauge: 87001-0211

Compression Gauge Adapter: 87001-1017

Cylinder Compression

Service Range: 401 - 708 kPa (4.4 - 7.2 kgf/cm², 58.8 - 100 psid) 5 strokes

- Install the spark plug.
 - Torque - Spark Plug: 13 Nm (1.2 kgfm, 9.4 ft lb)
- Put the side seal tightly to make sure the installation of the block cut.



Problem	Diagnosis	Remedy (Action)
The cylinder compression is higher than the stable range	Carbon accumulation on piston and in cylinder head (combustion chamber) is suspected due to damaged valve stem or piston oil rings.	Remove the carbon deposits and replace damaged parts if necessary.
	Incorrect cylinder head gasket	Replace the gasket with a standard one thickness.
	Damaged auto-decompressor spring or decompressor do not move smoothly	Replace the spring or auto-decompressor.
The cylinder compression is lower than the stable range	Exhaust gas leakage around cylinder head	Replace the damaged gasket and check cylinder head warpage.
	Incorrect seating surface of valve	Repair seating surface if possible.
	Valve clearance is too narrow	Adjust the valve clearance.
	Piston/cylinder clearance is too wide	Replace the piston and/or cylinder.
	Piston seizure	Inspect the cylinder and piston, repair or replace them if necessary.
	Bad condition of piston ring and/or piston ring grooves	Replace the piston and/or the piston rings.
	Auto-decompressor do not move smoothly	Replace the auto-decompressor.

Cylinder Head

Cylinder Head Removal

- Remove:
 - Fuel Tank (see Fuel Tank Removal in the Fuel System chapter)
 - Carburetor (see Carburetor Removal in the Fuel System chapter)
 - Camshaft Chain Tensioner (see Camshaft Chain Tensioner Removal)
 - Cylinder Head Cover (see Cylinder Head Cover Removal)
 - Camshaft (see Camshaft Removal)
- Remove:
 - Engine Bracket (A)
 - Nuts (B)
 - Exhaust Pipe (C)
 - Clamp Screw (D) (down)
 - Radiator Hose (E)



- Remove the breather hose (A) from the inlet duct.
 - Remove the 8 mm cylinder head bolts (B) and loosen the cylinder bolt (C).
- (This prevents the 8 mm bolts from becoming damaged.)



- Remove the 10 mm cylinder head bolts (A).



- Tap lightly up with a plastic mallet (A) to separate the cylinder head (B) from the cylinder.



Kawasaki Ninja 2007 Ex250f Service Manual

JS Bruner



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