



REVELATOR ALF

A BIKER'S LIFE LESS ORDINARY

H-D Softail 2018+ Spark Plug Service Worksheet

Spark plug servicing is an important element in prolonging the life of an engine, to optimise performance and for early fault diagnosis.

Below is some information to help you in your servicing tasks.

Number of spark plugs - 4 (2 per cylinder) Removal of petrol tank is required to access all 4 spark plugs

Replacements
or
or 4 x Harley Davidson Part No: 31600012
4 x Champion RG6HCC
4 x NGK 6R10

Spark Plug Condition

Wet, black and shiny - Worn pistons, Worn piston rings, Worn valves, Worn valve guides, Worn valve seals, Weak battery, Faulty ignition system

Dry, fluffy or sooty and black - Air-fuel mixture too rich

Light brown and glassy - Air-fuel mixture too lean, Hot running engine, Valves not seating, Improper ignition timing
(Possible cracked insulator or eroded electrode)

White, grey or tan & powdery - Balanced combustion, Clean off deposits at regular intervals.

The glassy deposit on a spark plug may cause high speed misfiring.

Always check spark plug cables for wear and/or damage. Check for cracks or loose terminals. Check for loose fit on ignition coil and spark plugs. Check cable boots/caps for cracks or tears. Replace as necessary.

Prior to removal of spark plugs, ensure the cylinder head and spark plug base is cleared of dirt or debris.

On removal of spark plug, check condition, then measure the gap between the centre and outer electrodes. You will need a feeler gauge for this.

The gap should be: 0.8-0.9mm or 0.031-0.035 inches - a snug fit with the feeler gauge

Replacing the plugs. Always start by hand to ensure the spark plug is threading properly, then continue with spark plug spanner or socket wrench. Do not over tighten. Always use a torque wrench with to tighten to 10-15 Nm (89-133 in-lbs)