

Installation Bulletin for HT Series Spark Plugs

PROPER SPARK PLUG INSTALLATION

It is critical these spark plugs are torqued to the proper specification with a dedicated 9/16" spark plug socket. These spark plugs must be properly torqued to 30-38 Nm (22 to 28 Ft. lbs.)

Spark Plugs returned to Autolite product evaluation team have consistently displayed signs of insufficient torque. Care should be taken to ensure that proper installation torque is applied to all difficult to reach cylinder locations. The associated failure mode is an engine misfire and display of the "Check Engine" light.

NOTE: Use of compressed air and a shop vacuum is recommended to eliminate residual carbon on threads and seat before removal of old spark plug AND prior to install of new spark plug. Careful cleaning of the motor seat area with compressed air, a brush if needed and a strong shop vacuum to remove any contaminants from falling into the engine during cleaning.

Proper Installation Indicators:

1. Overall clean shiny appearance of threads and barrel
2. Clean threads with no excess deposits and/or carbon buildup
3. Clean seating surface – an indication of 360° contact to cylinder head

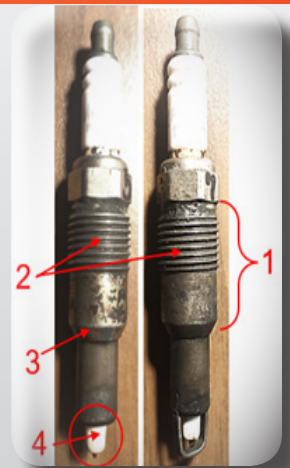


Installation Torque – 30 to 38 Nm (22 to 28 ft lbs)

- If a loose spark plug is encountered, the cylinder head threads / spark plug opening could contain dirt or carbon deposits and/or may be damaged.
- The dirt buildup / damage could adversely affect subsequent spark plug installations and applied torque reading will not indicate a proper seating / installation

Improper Installation Indicators:

1. Overall excessive dark coloration - caused by combustion gas blow-by
2. Dirty threads - (deposit / carbon buildup) – caused by combustion gas blow-by
3. Little to no clean surface on seating surface – an indication of insufficient (< 360°) spark plug contact to cylinder head



4. The above demonstrates the spark plug was not fully seated when installed. Over time, the spark plug may be exposed to excessive vibration and combustion gas blow-by, which may result in a broken ground strap.