Contribution to a motorized society

Contributing to space and energy saving by compactness and light weight

Development background

Engine trend
- Diversification of engines
- High output and high revolution of engine
- Improved freedom of engine layout
- Improvement of engine cooling
- Improvement of ignitability

M10 long reach plug
- High performance plug
- Wide gap (Initial gap 1.1mm)
- Withstand voltage of 40 kV or more

High performance plug
- Improvement of probability
- Strength to high voltage

Technologies

Design technology: Withstand voltage of 40 kV or more
- High dielectric strength by applying new insulator material and optimized design.
- Initial Gap 1.1mm → optimized design

Features

- Smaller diameter (M10) and high performance
  (high dielectric strength - wide gap (initial gap 1.1mm))

Applicable vehicles

Gasoline engine in general

Benefits of smaller diameter

- Larger coolant volume (Prevents knocking)
- Smaller valve included angle (Higher flexibility for intake and exhaust flow)
- Larger valve diameter (Higher output)
- Smaller plug hole (Engine head design flexibility)
- Smaller bore (Prevents knocking)
- Flexibility for bore/stroke ratio

M10 High Performance Spark Plugs and Super Long Reach Plug

It is a compact / light weight spark plug designed to correspond diversification of engines (Direct injection, twin spark, high output, turbo charged, down sizing, etc.). Since the degree of freedom of the layout around the valve is improved, It contributes to improving fuel efficiency.

M10 Hex14 Long Reach Plug

Gasoline engine