

a **TERMINAL**

b **FIVE-RIB CERAMIC INSULATOR**

- > Five-rib design resists breakage, reduces voltage loss and prevents missed sparks
- > Design delivers 20% more insulation than conventional plugs
- > Insulators made from high purity alumina for good electrical insulation, durability and thermal conductivity
- > Improved performance in wet conditions, and in plugs with a large gap operating under a high voltage

c **HOUSING**

- > Highly corrosion resistant nickel plating

d **ELECTRICAL HEAT SEAL**

- > Heat resistance, good hermetic seal, low variation in heat range

e **GASKET**

f **U-GROOVE GROUND ELECTRODE**

- > U-shaped groove creates large volume necessary for flame kernel to form
- > Allows low spark voltage to be achieved without increasing the gap
- > Spark exposes better to air-fuel mixture, achieving more complete combustion
- > Ignites leaner mixtures
- > Lower emissions
- > Choice: U-groove technology is a standard feature of most DENSO spark plugs; more than 300 references in all



U-GROOVE ELECTRODE

g **RING**

h **RESISTOR**

- > 5k Ω resistor specification
- > Reduces noise that may affect electronic devices

i **CENTRE SHAFT (STEM)**

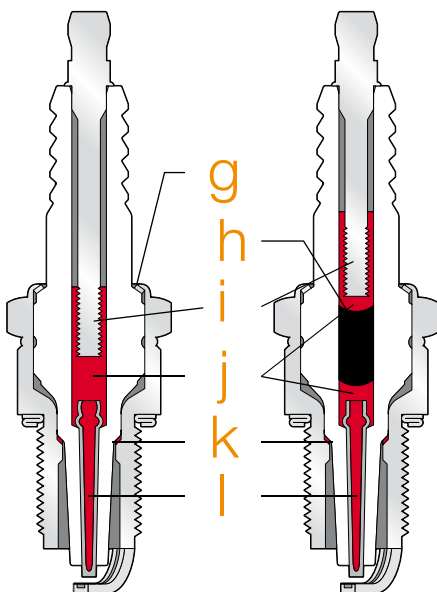
j **COPPER-GLASS SEAL**

- > Special mixture of copper and glass powder bonds centre electrode and insulator together
- > Airtight seal prevents escape of hot combustion gases
- > High electrical and thermal conductivity
- > Even heat distribution

k **PACKING WASHER**

l **COPPER-CORE CENTRE ELECTRODE**

- > Centre electrode of wear-resistant nickel- chrome binary alloy with deeply inserted copper core
- > Increased operating range
- > Releases intense heat from the electrode
- > Strong, steady spark from low to high speeds



Conventional Plug

Resistor Plug