Vehicle system analyzers

Diagnosis of spark plugs

Diagnosing vehicle faults needs to be quick, thorough and affordable. With vehicle systems and components becoming ever more complex and diverse, workshops are best equipped to conduct quick and efficient repair and maintenance using vehicle system analysis technology by Bosch.

The FSA 500 and FSA 740 are engine testers, which are amongst many other features able to control the processes of the ignition.

Precise measurements for thorough analysis

The FSA 500 and FSA 740 measurement technology is able to control all the important figures at ignitions low voltage part (primary ignition) such as power supply, functionality of ECUs driver stage, Ignition coils and its wiring harness.

Monitoring, comparing, diagnosing quickly

A special secondary pick up of the FSA can also monitor the secondary side of the ignition circuit (High Voltage of up to 50KV). As modern cars have one ignition circuit per cylinder, technicians can easily compare the signals of an engine and this way easily detect errors in one of the ignition circuits. Diagnosis becomes more efficient and eventually vehicles can be repaired faster.



User-friendly software to support thorough diagnoses

The CompacPlus software used in combination with the FSA devices supports ignition circuit diagnosis with a choice of features inside the application, such as pre-settings for scope, cursors, picture recording and a database for reference curves, so workshops can conduct thorough diagnoses. Reference curves are displayed in overlay mode, making it easy to compare the primary and secondary scope pattern from different ignition circuits or even before and after repair scenarios.

The compact choice: FSA 500

The handy and battery-powered FSA 500 is able to conduct over 30 pre-set component tests and can be connected to existing systems and used for the gradual expansion of a workshop test system. Its strength lies in its mobility and ability to conveniently test important electrical and electronic components. FSA 500 is able to deal with 48 Volt systems: Specific test instructions and measurement technology for new cars with 48V technology are already integrated This enables analysis and diagnosis of current and future vehicle components and electric motors in particular.



The expandable choice: FSA 740

The FSA 740 is a true all-rounder, consisting of a measuring module, extensive sensor equipment, PC system including a 24" TFT monitor, remote control, printer and a practical trolley. A comprehensive range of accessories makes the FSA 740 a universal system with optimally tuned (coordinated) modules. The device can be extended with ECU diagnosis modules, the ESI[tronic] 2.0 diagnostic software and emission (gas) testing systems. Like the FSA 500, the FSA 740 is able to deal with 48V technology.



What drives you, drives us

Bosch technologies are used in most vehicles worldwide. People, and assuring their mobility, is what we are focused on.

Therefore, we have dedicated over 130 years of pioneering spirit and expertise in research and manufacturing to achieving this.

We continue to work on our unique combination of solutions for spare parts, diagnostics and workshop services:

- ► Solutions for efficient and effective vehicle repairs
- ► Innovative workshop equipment and software
- One of the world's most comprehensive ranges of new and exchange parts
- Large network of wholesale customers, for quick and reliable parts supply
- Competent technical support
- ► Comprehensive educational and training offers
- ► Targeted sales and marketing support

Find out more at: boschaftermarket.com

Robert Bosch GmbH Automotive Aftermarket

Auf der Breit 4 76227 Karlsruhe Germany





Subject to technical and program changes.

7) CIVICO - F.O. OO, KOKI

Spark plugs

Overview

Modern vehicle engines need to meet increasing demands. They are judged based on factors such as fuel economy, low emissions and fun to drive. Many vehicle manufacturers rely on the high quality, reliability and performance of Bosch spark plugs for their vehicles' original equipment.

System and component developer

Thanks to its close cooperation with vehicle manufacturers, Bosch gained outstanding know-how – concerning components such as spark plugs as well as gasoline injection systems. It allows Bosch to offer a comprehensive range of spark plugs and ignition components matching the specific requirements of different engines on the aftermarket.

Technological competence

The aftermarket also benefits from motorsport and original-equipment innovations. Future trends and technologies are implemented at the production of spark plugs for series-production passenger cars and are often even further developed before being launched onto the workshop and retail markets.

High market coverage

With a high worldwide market coverage, Bosch supplies matching spark plugs for almost any vehicle - and geared to the specific requirements of the respective engine.

High quality

Following the first Bosch spark plug launched in 1902, several other patents have also been filed. These include, for instance, the Continuous Wave (CW) laser welding method clearly increasing the durability of the welded connection on the center electrode. Innovative alloys such as nickel, yttrium and precious metals ensure a long service life. Production procedures such as the heat-shrink assembly, nickel-coated spark plug housings and threads ensure a high reliability and a long service life.



Precious-metal spark plugs

Product range & details



Scope of application Bosch spark plugs are designed for a permanently reliable ignition performance in the respective engine. They are developed and produced with the same quality as original equipment spark plugs.

Advantages at a



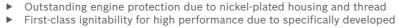












precious metals or alloys of the center electrode ► Hassle-free spark plug replacement due to factory-set electrode gap

► High wear resistance due to highly heat-conductive electrodes ▶ High gas tightness and stable heat value through heat shrink assembly

Spark plugs without precious metals

Product range & details

