Who’s doing your diagnostic work...?

Order a solution

Order number
KTS 560: 0 684 400 560
KTS 590: 0 684 400 590

Scope of delivery includes diagnostic device and the following accessories:
- OBD connection cable (1.5 m)
- Power supply unit
- Test lead/probe set
- USB connecting cable (3 m)
- Trolley mounting parts set
- Storage case
- Optional extra: Amp clamp

Future driven DIAGNOSTICS

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

Therefore, we have dedicated the last 125 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, diagnostic devices, workshop equipment and services:

- Solutions for efficient vehicle repairs
- Innovative workshop equipment and software
- The world’s most comprehensive range of new and replacement parts
- Large network of wholesale customers, for quick and reliable parts supply
- Competent hotline support
- Comprehensive educational and training offers
- Targeted sales and marketing support

Find out more at:
www.bosch-workshopworld.co.uk

Driven by efficiency
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What drives you drives us.

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KTS 560 / KTS 590
ECU diagnosis using ESI[tronic] 2.0

Robert Bosch Limited
Park Royal
London NW10 7RT
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Diagnostics have changed, have you?

Diagnostics are one of the most important tools in a vehicle workshop, and therefore also in the automotive industry. New diagnostic tools are being developed at the same rate as new vehicles. To be able to diagnose new vehicles, you need to equip your workshop with new diagnostic tools.

The new generation KTS 560 and KTS 590 satisfy these new technologies with a number of technical features that are only currently available on OEM diagnostic tools. These include:

- Support of today's relevant diagnostic protocols
- Work with Windows based PC that has a licensed version of the Bosch diagnostic software ESI[tronic] 2.0
- Simultaneous parallel CAN channel communication
- Enable FastThru by working with OBD II software
- Work with Diagnostics over Internet Protocol (DoIP)
- Measure voltage, resistance and current easily and efficiently
- Provide a state-of the-art multimeter and an isolated two-channel oscilloscope
- Measure signals from sensors and actuators directly and via serial diagnosis
- Provide a robust design with high resistance to dust and water (IP53)
- Provide USB 2.0 and Bluetooth® connections
- Measure voltage, resistance and current easily and efficiently
- Provide a state-of-the-art multimeter and an isolated two-channel oscilloscope
- Provide a robust design with high resistance to dust and water (IP53)
- Provide USB 2.0 and Bluetooth® connections

Parallel Channel Communication

One of the major changes in the architecture of the new generation KTS is the ability to use parallel channels to communicate with the vehicle, allowing communication to more than one CAN system simultaneously, speeding up programming and diagnosis, common with Ford, Jaguar Land Rover, BMW and many others, are already using the type of communication.

PassThru – Euro 5/6

As a solution to work with modern OBD compliant diagnostic devices, the new generation KTS 560 and KTS 590 can use FastThru to communicate with the vehicle in the same way as many OEM diagnostic tools. The new generation KTS has been proven to work with these brands:

- Jaguar Land Rover
- VAG
- BMW
- Mercedes-Benz
- Vauxhall
- Volvo
- Volvo
- Jaguar Land Rover
- Others (verification ongoing)

*Windows 7 and above is recommended ** Amp clamp sold separately

Technical data

Operating voltage: 8 V DC - 28 V DC
Connection to PC: USB 2.0, Bluetooth® Class 1
IP53 rated protection against dust and water
Multimeter backlight: 100 V
Oscilloscope sampling rate: 20 MS/s
Vehicle protocols: ISO 11898, ISO 15765-4 (OBD), CAN Single Wire, CAN Low Speed, ISO 13400 (Diagnostics over IP), and other vehicle specific protocols

For more information, please visit: www.bosch-workshopworld.co.uk

Diagnostics over Internet Protocol (DoIP)

Diagnostics over Internet Protocol (DoIP) provides communication to the vehicle at variable speeds up to 200 times faster than CANbus systems. The KTS 560 and KTS 590 are the first products in the independent aftermarket that have DoIP capabilities ensuring that communication to vehicles is possible as OEMs develop this technology in the future. The ability to communicate at variable speeds using IP based radio (speed of data transfer) gives the new generation KTS the advantage of being able to process the data using new protocols which has previously not been possible.

Still searching the internet for your diagnostic problems?

Complexity is the driver to searching online for solutions to diagnostic problems. Sometimes these are not verified or incorrect which wastes time and money and can result in the loss of customers. With ESI[tronic] 2.0, all of these answers are contained in one place.

What does ESI[tronic] 2.0 do?

When used with the new generation KTS, ESI[tronic] 2.0’s capabilities are enhanced and provide a complete diagnostic solution. This relates to all the features of a traditional scan tool plus:

- Guided trouble testing
- Detailed component location
- Comprehensive component test plans
- Interactive wiring diagrams
- Body circuit diagrams
- Technical service bulletins
- Service and maintenance information
- Service diagrams

It is also possible to save and print a report of the work that has been done on a vehicle so that it can be presented to the customer.

Continuous Improvement

To keep ESI[tronic] 2.0 content up to date, Bosch’s 350 development engineers across the world work to include new diagnostic coverage and vehicle information as it becomes available. Online software updates continuously expand the ESI[tronic] 2.0 content and provide solutions for the workshop.

ESI[tronic] 2.0 Subscriptions

Any current subscriber to ESI[tronic] 2.0 will not have to purchase a second licence if they upgrade their hardware to a new generation KTS 560 or KTS 590.

For new subscribers the standard diagnostic package can be enhanced with additional packages ranging from a basic parts catalogue, troubleshooting instructions, wiring diagrams and technical service bulletins.

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Diagnostics have **changed**, have you?

Diagnostics are a disruptive technology that is transforming the automotive industry. As a result, vehicle manufacturers are developing new diagnostic equipment to collect and interpret data. These new tools have the advantage of being able to process the data using new protocols which has previously not been possible.

One of the major changes in the architecture of the new generation of KTS is the ability to use parallel channels to communicate with the vehicle, allowing communication to more than one CAN bus simultaneously. This speeds up programming and diagnosis, e.g., for Ford, Jaguar Land Rover, BMW, and many others.

The advantage of being able to process the data using new protocols which has previously not been possible is that it helps diagnose, troubleshoot, and repair faults. As a result, OEMs, such as Ford, Jaguar Land Rover, BMW, and many others, are already using this type of communication.

**Compliance is the driver to searching online for solutions to diagnostic problems.** Sometimes these are not verified or incomplete which wastes time and money and can result in the loss of customers. With ESI[tronic] 2.0, all of these answers are contained in the place.

**PassThru – Euro 5/6**

As a solution to avoid purchasing multiple OEM diagnostic devices, the new generation KTS 560 and KTS 590 can use PassThru to communicate with the vehicle in the same way as many OEM diagnostic tools. The new generation KTS 560 has been proven to work with these brands:

- Jaguar Land Rover
- VW
- Alfa Romeo-Diesel
- BMW
- Volvo
- Hyatt
- Others (verification ongoing)

![Image](image-url)

**Vehicle protocols:**

- 'internet
- [DIN 71360, SAE J2534-1, and 2 (PassThru), (ISO 11851-2, and 4], SAE J1939/VPW and PAM, CAN/Single Speed, ISO 12100, and other vehicle-specific protocols.

**For more information, please visit:**

[www.bosch-workshopworld.co.uk](http://www.bosch-workshopworld.co.uk)

**Technical data**

- Operating voltage: 8V DC - 28V DC
- Connection to PC: USB 2.0, Bluetooth
- Oscilloscope sampling rate: 20 MS/s
- Multimeter bandwidth: 100 kHz
- IP53 rated protection against dust and water
- Connection to PC: USB 2.0, Bluetooth
- Operating voltage: 8V DC - 28V DC
- Technical data

**Diagnostics over Internet Protocol (DoIP)**

Diagnostics over Internet Protocol (DoIP) provides communication to the vehicle at variable speeds up to 200 times faster than high-speed CANbus systems. The KTS 560 and KTS 590 are the first products in the independent aftermarket that have DoIP capabilities ensuring that communication to vehicles is possible as OEMs develop this technology in the future. The ability to communicate at variable speeds using TCP (transmission control protocol) gives the new generation KTS the advantage of being able to process the data using new protocols which has previously not been possible.

**Continuous Improvement**

To keep ESI[tronic] 2.0 content up to date, Bosch’s 350 development engineers across the world work to include new diagnostic coverage and vehicle information as it becomes available. Online software updates continuously expand the ESI[tronic] 2.0 content and provide solutions for the workshop.

**What does ESI[tronic] 2.0 do?**

When used with the new generation KTS, ESI[tronic] 2.0’s capabilities are enhanced and provide a complete diagnostic solution. This relates to all of the features of a traditional scan tool plus:

- Guided trouble hunting
- Detailed component location
- Comprehensive component test plans
- Interactive wiring diagrams
- Body circuit diagrams
- Technical service bulletins
- Service and maintenance information
- Service diagrams

It is also possible to save and print a report of the work that has been done on a vehicle so that it can be presented to the customer.

Any current subscriber to ESI[tronic] 2.0 will not have to purchase a second licence if they upgrade their hardware to a new generation KTS 560 or KTS 590.

For new subscribers the standard diagnostic package can be enhanced with additional packages ranging from a basic parts catalogue, troubleshooting instructions, wiring diagrams and technical service bulletins.

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[www.bosch-workshopworld.co.uk](http://www.bosch-workshopworld.co.uk)
Diagnostics have changed, have you?

Diagnostics are evolving, and work has been done to keep up with the pace. Thanks to a number of recent trends in developing the same rate as these new technologies to successfully diagnose, troubleshoot and repair faults.

The new generation KTS 560 and KTS 590 satisfy these new technologies with a number of technical features that are only currently available on OEM diagnostic tools. These include:

**PassThru – Euro 5/6**

As a solution to work with multiple OEM diagnostic devices, the new generation KTS 560 and KTS 590 can use PassThru to communicate with the vehicle in the same way as many OEM diagnostic tools. The new generation KTS has been proven to work with these brands:

- Jaguar Land Rover
- BMW
- VAG
- Volvo
- Vauxhall
- Others (verification ongoing)

PassThru is essential to the workshop world; the ability to communicate with the vehicle in the same way as many OEM diagnostic tools makes the new generation KTS a valuable diagnostic tool.

**Diagnostics over Internet Protocol (DoIP)**

When used with the new generation KTS, ESI[tronic] 2.0’s capabilities are enhanced and provide a complete diagnostic solution. This relates to all the features of a traditional scan tool plus:

- Guided test lists
- Detailed component location
- Comprehensive component test plans
- Interactive wiring diagrams
- Body circuit diagrams
- Technical service bulletins
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**Operating voltage:** 8V DC - 28V DC

**Connection to PC:** USB 2.0, Bluetooth

**Technical data**

Operating voltage: 8V DC - 28V DC
Connection to PC: USB 2.0, Bluetooth

ISO 53 rated protection against dust and water

Multimeter Bosch handheld: 110-180

Oscilloscope sampling rate: 20 MS/s

Vehicle protocols: OBD1: CAN+LIN, SAE J1708, SAE J2534-1 and 2 (PassThru), ISO 9141-2 (K and L), SAE JOBD VPW and PWM, CAN high Speed: ISO 11898, ISO 15765-1 (OBD), CAN Single Wire, CAN high speed, ISO 12400 (Diagnosis over IP), and other available specific protocols.

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---

**Technical data**

Support all of today’s relevant diagnostic protocols.

Work with Windows based PC that has a licensed version of the Bosch diagnostic software ESI[tronic] 2.0 installed.

Simultaneous parallel CAN channel communication.

Enable PassThru by working with OBD software.

Work with Diagnostics over Internet Protocol (DoIP).

Measure voltage, resistance and current easily and efficiently.

Provide a state of the art multimeter and an isolated two-channel oscilloscope.

Provide a robust design with high resistance to dust and water (IP53).

Measure signals from sensors and actuators directly and via serial diagnosis.

Provide a state-of-the-art multimeter and an isolated two-channel oscilloscope.

*Windows 7 and above is recommended***

Amp clamp sold separately.
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We continue to work on our unique combination of solutions for spare parts, diagnostic devices, workshop equipment and services:

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What drives you drives us.
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Uxbridge
UB9 5HJ
www.bosch-workshopworld.co.uk

What drives you
drives us.

Future driven
DIAGNOSTICS

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- Power supply and
- Test lead/probe set
- USB connecting cable (3 m)
- Bluetooth® USB adaptor
- Storage case
- Optional extra: Amp clamp
(Subject to ESI[tronic] 2.0 software subscription)