



NEW: The **KTS Series** for Safe, Convenient and Fast **Diagnostics**

- **Convenient** – Bosch-specific Bluetooth USB connection
- **Fast** – Easy connection of measuring technology for troubleshooting
- **Safe** – software-controlled change adapter with cable adapter recognition



BOSCH

Invented for life

Bosch Diagnostics			
ESI[tronic] Software	Test Equipment	Service Training	Technical Hotline

The **New Technology** of the KTS Series by Bosch



More and more electronics in our cars: This makes qualified control unit diagnostics a must. Bosch provides cutting edge diagnosis technology like the KTS Series to give your workshop service the edge. The ESI[tronic] workshop software designed for that purpose automatically identifies control units, reads out current actual values and compares them to the values specified by the manufacturers. Selective further development of the KTS Series has led to the integration of additional advantages, such as change adapters, radio system, extended oscilloscope and measuring functions.



Ready for the future with integrated change adapters



Radio technology for flexibility around the car



Oscilloscope measurement parallel to diagnostics



Efficient use through easy application

Diagnostics: Convenient, Fast and Safe

The KTS Series is an International Success.

How Come They've Revised It?

Fast troubleshooting with safe results is a must for all vehicles entering workshops today and in the future. With KTS technology, you're well equipped to meet the requirements made by modern vehicle diagnostics to workshops nowadays. The new KTS modules have been improved in performance, convenience and use especially for automotive technology involving complex electronics.

Convenient

- Convenient and mobile with wireless "Bluetooth transfer" on the KTS 570 and 540
- Bluetooth Standard Class 1 with powerful and stable radio transmittance up to 100 meters
- Bluetooth USB Adapter by Bosch included in the delivery for convenient and easy initial installation
- Control and activation of the installation via the integrated software DDC, Diagnostics Device Configuration
- Automatic KTS module search
- Radio link test with integrated signal transmitter
- Test program for checking the radio link
- Optical and acoustical status ID / control of the radio link
- Simulation mode individually adjustable via DDC
- Universal application for motor and commercial vehicles via universal OBD plug for 14V and 28V electrical systems for vehicles

Fast

- New: Diagnosis oscilloscope
- Improved multi-meter and oscilloscope measuring technology
- Improved signal analysis due to:
 - Significantly increased sampling rate
 - Increased image replay rate
 - Horizontal deflection with improved resolution
- Higher input resistance simplifies troubleshooting
- Easy connection of the KTS Series to the vehicle

Safe

- Up-to-date and ready for the future with change adapters
- Clear communication via multiplexer and future cable adapter recognition: K and L line, SAE and CAN can be switched to all possible terminals on the OBD plug
- Intelligent adapter connection now allows:
 - Safe multiplexer triggering
 - Automatic control unit search function with SD Ident
- New: Change adapter integrated in the device. By changing Car- or Systemtechnology it can easily be replaced
- Easy mounting and removing via module fixture



Status displays via LED on the KTS housing

Always on Track: Stand-by Displays on the KTS

Take one look and know what's happening. That's why both the KTS 570 and 540 come with two multi-color LED displays:

- LED A shows the stand-by status
- LED B shows the connection to the vehicle
- Clear status information: These LEDs also indicate defect statuses by blinking or with a static light impulse (red)
- The task bar on the screen always displays the radio link status during installation and during operation
- Loss of radio contact is indicated by an acoustic signal



Bluetooth USB Adapter

KTS with Bluetooth – Mobile and Flexible

Talk about practical: The Bluetooth stick with its own software for easy initial installation. All it takes then is to choose the radio link and the system is ready. A safe and quick login is given, even when several testers are at work in a workshop.



Communication



No communication



Connection ok



... not ok

Bluetooth Function Display on the PC

Keep a safe eye on the connection with the installation and field strength display.

KTS 570 and 540 for **Mobile and Flexible** Diagnostics



Control unit diagnosis in a workshop with radio technology up to 100 meters

Make Your Tests Convenient and Safe with the KTS 570 Wireless

Expect control unit diagnostics of the highest grade from the top device of the KTS family. Whether you're dealing with a diesel- or gasoline-powered vehicle – make your tests wireless and convenient with all the functions.



KTS 570 wireless with Bluetooth USB Adapter

Extended Multi-meter Capabilities

Precise Measurements with Immediate Results

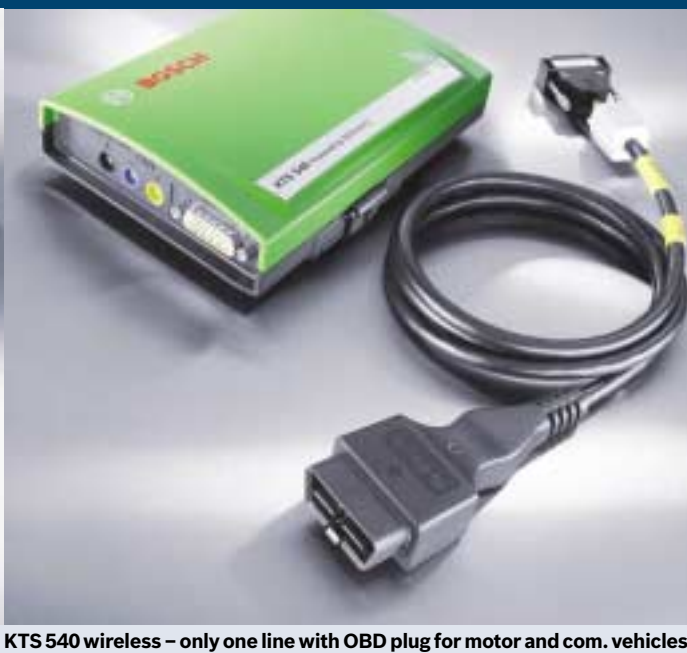
The new KTS Series brings you comprehensive multi-meter capabilities with cutting-edge measuring technology for even better signal analysis.

- Resistance measuring with extended measuring ranges
- Circuit indicator for troubleshooting
- Diode measuring for testing in components
- Voltage measuring with extended measuring functions
- Current measuring with extra adaptability of FSA current clamps

Equipment	KTS 570:	KTS 540, 530:
	2-channel multi-meter 2-channel oscilloscope	1-channel multi-meter
Resistance measurement	Measuring accuracy 1% from mean value Grounding possibility selectable in the software Measuring range 100 Ω to 1 MΩ	
Voltage measurement	The voltage measuring ranges are valid for AC and DC Measuring range +/-200mV to +/-200V (resolution 0.1mV to 100 mV)	
Current measurement	Currents are captured via optional external converters (current clamps, shunts and others) FAS current clamp useable	

Professional Workshop Equipment with the KTS 540 Wireless

Professionals need their most important information handy at the drop of a hat. This is why the KTS 540 wireless is the solution for everyday workshop application.



KTS 540 wireless – only one line with OBD plug for motor and com. vehicles

Curves Say More than Diagnostic Signals

NEW! Diagnosis Oscilloscope

Within the control unit diagnosis, the signals of the diagnosis cables like the K and L line, SAE and CAN can be diagnosed via the 2-channel diagnosis oscilloscope parallel to each test step.

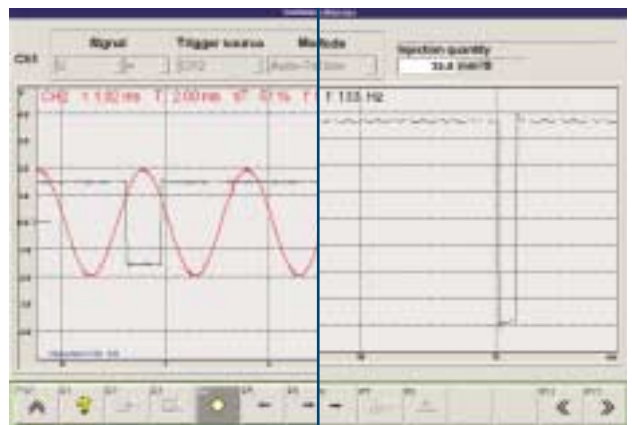
- Signal analysis on the diagnosis cables
- Adaptation via the OBD diagnosis cable
- Both channels are identical and potential-bound



Improved error analysis with the diagnosis oscilloscope

Improved 2-channel Measuring Oscilloscope

When the communication with the control unit fails to show any malfunctions, a direct evaluation of the components with the oscilloscope will clarify matters in no time. The setting of the trigger timing has been improved.



2-channel oscilloscope for perfect troubleshooting

Component signal and actual value at a glance

Oscilloscope Specifications

Input resistance:	1 MΩ
Channel 1:	Potential-free
Channel 2:	Potential-bound
Sampling rate:	10 M samples per channel 5 M samples 2-channel
Trigger:	Different sources
Storage:	50 signal curves @ 2 channels

From the **Module** to the Diagnosis Center



KTS 530: **Introduction** to Control Unit Diagnosis

Test and Repair All Brands with the Vehicle System Analysis by Bosch

Many diagnosis situations can't be solved with control unit diagnostics alone. The complex technology of today's cars makes the testing of vehicle components indispensable. Current test technology can be used most cost-efficiently if it can be expanded as a module based on the needs of the individual workshop. This is made possible with Bosch test technology and its expansion of the KTS Series into a comprehensive vehicle system analysis. Cutting edge system testers allow the exact location of defects and the testing of vehicle components when they're actually installed.

Modular Expansion in the Bosch System: The KTS Serie Is Fully Combinable

- With the universal measuring module FSA 720 as a cost-efficient introductory solution
- With the complete system FAS 740 for comprehensive component testing, control unit diagnoses and convenient troubleshooting using ESI[tronic]
- With the new FAS 450 as a compact solution for measurements on vehicles
- With the Bosch emissions analysis BEA 850 for legally required emissions inspections and diagnostics of gasoline- and diesel-powered vehicles



Product Features of the KTS 530

The features of the KTS 530 are equivalent to those of the KTS 540, except that it doesn't have radio functions. This is to support the use in workshops that don't need these functions.

- The following operating system is supported:
MS-Windows® XP
- With a USB interface, the KTS 530 can be hooked up to all standard laptops / PCs
- For fast and easy adaptation
- Workshop-specific design of the housing and connecting cables
- Replaceable change adapter integrated in the module
- One-channel multi-meter integrated for troubleshooting
- Module fixture included in delivery

The New KTS Series by Bosch: The Right Equipment for Your Workshop



Accessory kit for the KTS 570 included in the delivery



Practical case included in the delivery

Accessories for Manifold Use

Every tester of the KTS family is supplied with useful accessories. For additional test functions, there's the option of ample extras. That way, every useful test job is covered.



KTS 570, KTS 540 with Bluetooth USB Adapter and KTS 530

The New KTS Series by Bosch The right Instrument for Every Workshop

KTS 530

The introductory version to comprehensive control unit diagnostics

KTS 540

The radio extension level for FSA, BEA, standard PCs or laptops

KTS 570

The convenient radio solution with top measuring technology for all control unit diagnostics requirements

Workshop Comparison

	Wireless	Multi-meter	2-channel oscilloscope
KTS 530	—	✓	—
KTS 540	✓	✓	—
KTS 570	✓	✓*	✓

*2-channel multi-meter

Data and Facts

Scope of delivery

Designation	KTS530 ¹⁾	KTS540 ¹⁾	KTS570 ¹⁾		KTS530 ¹⁾	KTS540 ¹⁾	KTS570 ¹⁾	
Power unit (15V/1A)	1	1	1		Testing wire, yellow	1	1	0
Mains supply cable	1	1	1		Ground cable, black	1	1	1
Adapter line OBD 1.5m	0	1	1		Test pick, red	1	1	2
Adapter line OBD 3 m	1	0	0		Terminal post, black	1	1	1
UNI4 adapter	1	1	1		Connecting line USB 3m	1	1	1
Testing wire, twin (red, black) 3m	0	0	1		Bluetooth USB adapter	0	1	1
Testing wire, twin (blue, yellow) 3m	0	0	1		Case	1	1	1
Testing wire, blue	1	1	0		Mounting fixture	1	1	1

¹⁾ Devices only work with ESI[tronic] clearing



Ready for the asanetwork

Workshops utilizing the asanetwork for linking workshop information and business data can use all devices of the new KTS Series for direct access to diagnostic values.

Extras KTS 570/540/530

Designation	Order number
*) Adapter line Opel Vauxhall	1 684 463 464
*) Adapter line Opel Multec	1 684 463 410
*) Adapter line BMW	1 684 463 465
*) Adapter line Nissan / Ford	1 684 463 651
Nissan OBD 16-terminal (in connection with adapter line 1 684 463 466)	1 684 463 490
*) Adapter line VW / Audi / Seat	1 684 463 467
*) Adapter line Renault	1 684 463 468
*) Adapter line Daewoo	1 684 463 489
Level adjustment 12V/5V	1 684 463 495
*) Adapter line Mercedes-Benz	1 684 447 032
*) Adapter line Mercedes-Benz (Sprinter, Atego)	1 684 463 494
*) Test adapter Mercedes-Benz 38-terminal	1 684 485 382
*) Adapter line Scania 16-terminal (R 124, R 144)	1 684 463 497
*) Adapter line MAN 37-terminal (EDC, MS 5)	1 684 463 498
*) Adapter line MAN 12-terminal (EDC, MS 6.1, MS 6.4, CR, EDC7C)	1 684 463 499
*) Adapter line PSA	1 684 460 181
*) Adapter line PSA (+/- Clip)	1 684 460 182
*) Adapter line PSA (10-section) for engine control systems	1 684 463 399
*) Adapter line PSA 3-terminal for, e.g., ABS (1 684 463 399 required)	1 684 463 400
*) Adapter line power supply connection to cigarette lighter	1 684 460 202
*) Adapter line Hyundai/Mitsubishi	1 684 461 144
*) Adapter line Fiat Group	1 684 463 394
*) Adapter line Rover	1 684 463 439
**) Power supply pin plug and power supply socket	1 684 460 231
*) Adapter line Ford	1 684 463 440
*) Adapter line Ford EEC4	1 684 463 496
*) Adapter line Ford (adjustment of PSG-5 pump device via CAN)	1 684 463 652
Tire valve activator	1 687 200 663
Adapter line OBD 5m	1 684 465 567
Connecting line USB 5m	1 684 465 563
***) USB Bluetooth extension 1m for Bluetooth PC Stick	1 684 465 564
***) USB Bluetooth extension 3m for Bluetooth PC Stick	1 684 465 565
OBD adapter box	1 684 462 346
FSA current clamp 30A	1 687 224 969
FSA current clamp 1000A	1 687 224 968
*) Adapter for FSA current clamp of FSA450, additionally required adapter 1 684 480 124	1 684 463 522
Measuring shunt 0 to 600 mA	1 684 503 103
AC/DC current clamp 100/600 A with pin plug	1 687 224 864
OBD adapter box with OBD plug	1 684 462 514

*) only in connection with Uni4 adapter 1 684 463 539

**) only in connection with 1 684 460 182 or 1 684 460 202

***) redundant with KTS 530

Requirements for Use

The operation of all KTSs requires a PC or a laptop with the following conditions: DVD drive, MS Windows XP, a minimum of 256 MB work storage, a free USB interface, and a minimum of 10 MB hard-disk capacity for the ESI[tronic] installation ESI[tronic] (information A and C).

ESI[tronic]: Vehicle Diagnostics Software for Workshops

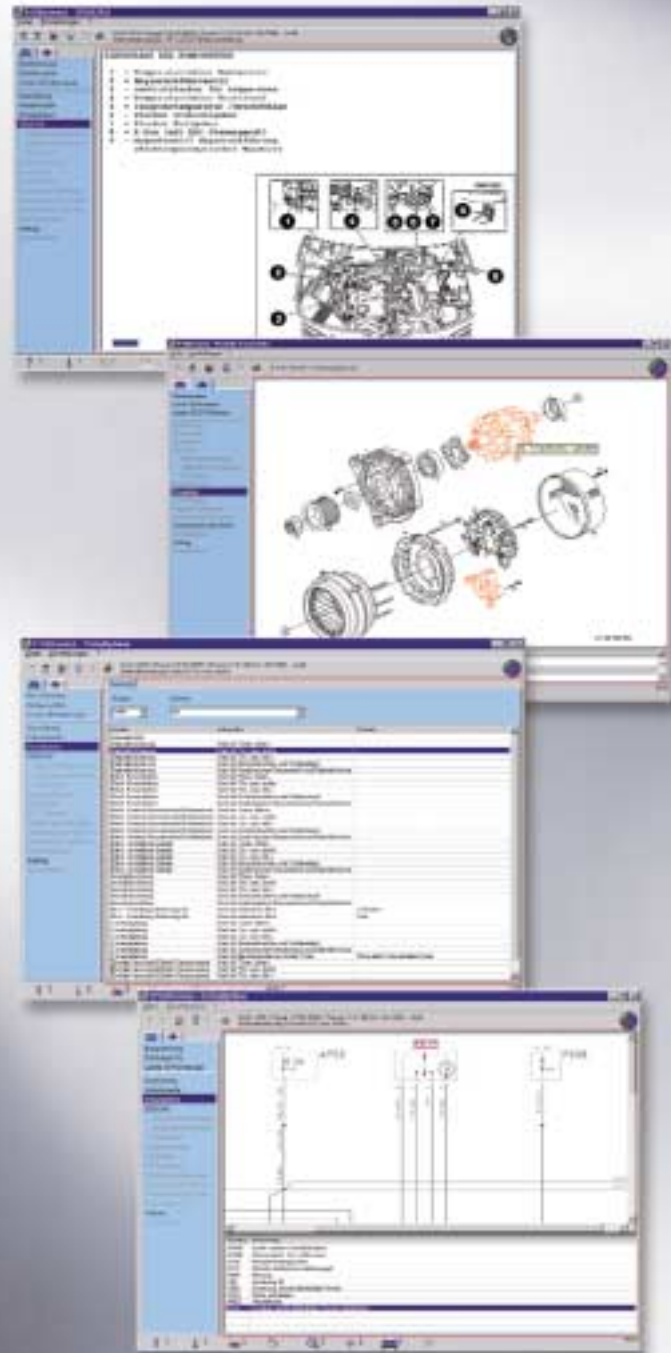


Test Technology Plus Active Support through ESI[tronic] Software

The only way for workshops to offer all services for innovative motor vehicles is through professional diagnostics and information systems. In order to strengthen this very characteristic, the easy-to-use ESI[tronic] software provides workshops with comprehensive information for finding and eliminating defects. It is designed for all current brands and adapted to the special needs of every workshop. ESI[tronic] software is perfectly synchronized with the KTS Series of Bosch test technology, which serves as an introduction to control unit diagnostics and requires only an available workshop PC.

Modular Structure for Professional Use

The number of software modules is completely cleared based on demand. Every workshop can combine the ESI[tronic] information based on their individual requirements. Updates for the subscribed data always keep this information current.



ESI[tronic] software with controlled troubleshooting for fast and easy diagnostics

Easy, Timesaving and Efficient Vehicle Diagnostics with CAS[plus]



Simply hook it up and use it: Connecting and applying the KTS Series by Bosch have been made even easier for workshops thanks to radio technology.



CAS[plus] Saves Time and Money

Troubleshooting is made even more effective with the integration of the CAS[plus] function into the KTS tester. Supported by the ESI[tronic] software, the values decisive for diagnostics and repairs are shown on the screen:

- With actual values from the control unit diagnostics
- With automated desired/actual comparison
- With evaluation in color
- With customer-specific protocol function



CD (Control Unit Diagnostics Software)

Connects the Bosch test technology and the workshop PC with information from the control unit



SIS (Service Information System)

SIS troubleshooting directions are applicable on any standard PC

Particularly helpful: When resistance, current and voltage values from the multi-meter function of the tester are required for the test procedure, they are directly available without the necessity of making any switches.



All it takes is a KTS control unit diagnostics tester for you to benefit from comprehensive diagnostic possibilities and information on your PC.

Simple connection to the vehicle

Connecting the new KTS testers with ESI[tronic] software is a walk in the park.

Connection to PCs / laptops via:

- Radio link on KTS 570 and KTS 540
- USB connection on KTS 530

Connection to the diagnostics socket via:

- OBD diagnostics cable or
- UNI4 adapter and auto-maker-specific adapter cables (SZB)

Multi-meter / oscilloscope connection via testing wires

- ① Bluetooth USB Adapter
- ② 2-lead testing wires
- ③ Change adapter integrated in the case



The new KTS Series: State-of-the-art solution for the control unit diagnostics



KTS 570 wireless, KTS 540 wireless and KTS 530

An Overview of the Advantages of the New KTS Series

The new products of the KTS Series are designed for the future and allow control unit diagnostics of vehicles based on cutting edge technology.

- **Change adapters for the future**
- **Radio technology for more mobility in workshops**
- **Extended measuring technology for comprehensive troubleshooting in vehicles, oscilloscope, URI, for repairs, desired / actual comparisons etc.**
- **Easy vehicle identification via ESI[tronic] software**
- **Integrated, comprehensive troubleshooting directions**
- **Comprehensive archiving of part and reference numbers**



Easy to change – the new adapter

Diagnostics for Your Workshop

Ever more complex systems in motor vehicles call for ever more qualified diagnostics for professional repairs and maintenance. Bosch provides workshops with system know-how, technical information, test technology, technical consulting and spare parts of original-equipment quality.

- **ESI[tronic] – software for diagnosis and service**
- **Test technology – appropriate for every workshop type**
- **Service training – success factor know-how**
- **Technical hotline – support by the system developer**



KTS 570 and KTS 540 with Bluetooth Class 1

AA-DG/MKT2 WAW 4572 GB 05.06

