

# Diagnostic Solutions

## ESI[tronic] 2.0



### ESI[TRONIC] 2.0 SOFTWARE SOLUTION: MULTIFUNCTIONALITY FOR VEHICLE DIAGNOSIS

**The multi-brand vehicle diagnostic software provides easy usage, fast access and broad vehicle coverage – this makes ESI[tronic] 2.0 a user-friendly, multifunctional information tool.**

Today one expects more than just control unit diagnostics from workshop software, no matter if it concerns passenger or commercial vehicles. Intelligent troubleshooting, support for rapid repair and maintenance according to manufacturer specifications are the new standard in the diagnostics segment. All these requirements can be met with the ESI[tronic] 2.0. The efficient control unit diagnosis from Bosch guides you through the troubleshooting process step-by-step. With ESI[tronic] 2.0, all the necessary information on the vehicle regarding maintenance and service is provided instantly. ESI[tronic] 2.0 contains the newest data on all standard vehicle types thanks to regular patches and thus allows you to stay up-to-date with regular Bosch-validated software updates.

The integrated solution Experience-based repair – Known Fixes allows quick access to known faults and proposed solutions at the same time repair solutions are required. Fast and reliable repairs are the basis for excellent results and high customer satisfaction.



### BENEFITS OF THE ESI[TRONIC] 2.0 AT A GLANCE

- ▶ Multibrand vehicle control unit diagnostic software: ESI[tronic] 2.0 is already used in every third independent workshop in Europe
- ▶ Worldwide great coverage for passenger cars, bikes, LCVs, trucks, buses and trailers in breadth and depth
  - ▶ Over 90.000 vehicles from more than 150 brands covered
  - ▶ Advance adjustment and programming functionalities
- ▶ Vehicle identification through KBA key or VIN enables efficient analysis on the average in 20 seconds
- ▶ All necessary data for repair and maintenance according to manufacturer specifications presented in a convenient, easy and understandable manner
- ▶ Supports the workshop networking concept Connected Repair (CoRe) for higher efficiency and effectiveness
- ▶ Always up-to-date with regular online updates:  
takes place in the background, workshops can use the software simultaneously without limitation
- ▶ High value and benefit: additional licenses for little money on multiple devices

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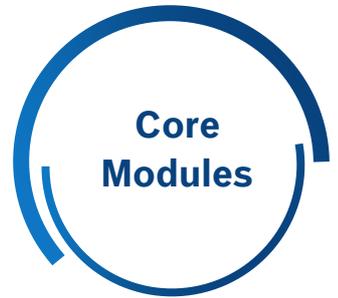
## GOOD TO KNOW – WHAT TYPES OF INFORMATION ARE AVAILABLE? ESI[TRONIC] 2.0 INFORMATION MODULES



Diagnostic software for maintenance and repair with comprehensive vehicle coverage: with its modular structure, ESI[tronic] 2.0 ensures that you can always find the best repair solution for your daily business.

Must-have for every professional in the workshop:

-  **SD** ▶ Vehicle diagnosis
-  **SIS** ▶ Vehicle troubleshooting instructions
-  **EBR** ▶ Experience-based repair – Known Fixes
-  **M** ▶ Vehicle mechanics and maintenance schedules
-  **P** ▶ Comfort systems wiring diagrams
-  ▶ Technical hotline / car repair hotline

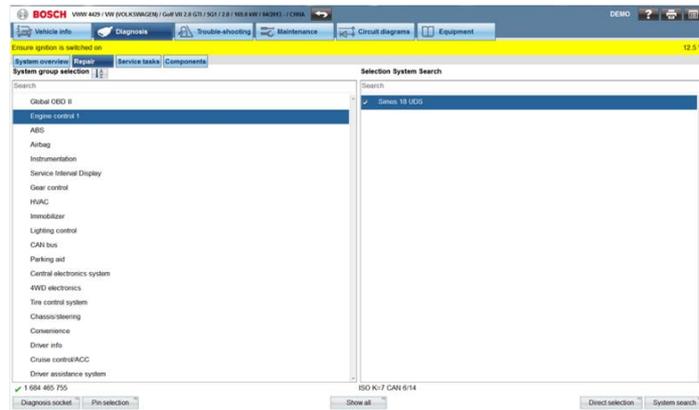


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## VEHICLE DIAGNOSIS (MODULE SD)

Use the latest diagnostic data for passenger car, bike, van and truck systems for all necessary service tasks.

- ▶ Service task menu for time-saving experts: you can find shortcuts to all service-relevant operations
- ▶ Flight recorder function to detect and analyze complex intermittent faults
- ▶ Protocols for documentation and handing information about the vehicle provided to customers
- ▶ Advanced coding and adjustment functionalities
- ▶ Worldwide greatest coverage for all control units: from identification to reading / deleting error memory, actual values, actuators, function tests, adjustments / settings and some special functions for individual and professional service procedures



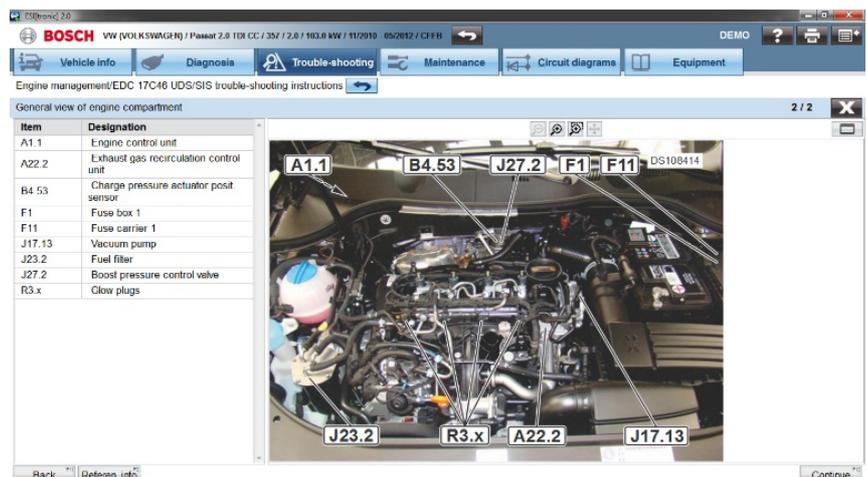
## VEHICLE TROUBLESHOOTING INSTRUCTIONS (MODULE SIS)

The troubleshooting instructions reliably guide you step-by-step to the cause of the fault. All of the information required for maintenance and service is available at the vehicle immediately.

- ▶ A system-based troubleshooting database hand-crafted by Bosch experts
- ▶ SIS/CAS complete system description and step-by-step testing including OE values and real-time comparison with VCI multimeter measurements

Troubleshooting instructions contain the following information:

- ▶ Installation positions and removal / installation instructions
- ▶ Overviews for the vehicle such as data bus overviews
- ▶ System tests of almost any component in the car
- ▶ Wiring diagram
- ▶ Control unit terminal assignment
- ▶ Self-diagnosis overview (including actual value description and fault code tables)
- ▶ System identification
- ▶ Service interval reset

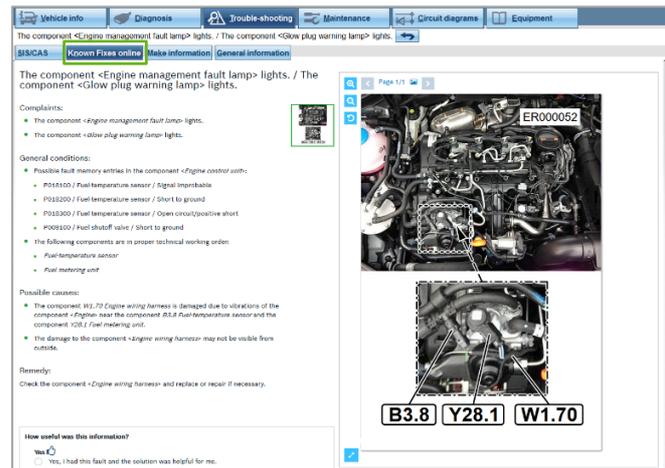


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## EXPERIENCE-BASED REPAIR – KNOWN FIXES (MODULE EBR)

Find the right solution within seconds, even for challenging troubleshooting cases. EBR includes data on specific errors repeatedly occurring on certain vehicle models. In case a known error is detected during the diagnosis, ESI[tronic] 2.0 recommends the technician a repair solution which has already been proven to be a good remedy.

- ▶ Contains repair instructions for frequently occurring faults; even faster and easier solutions compared to classical troubleshooting
- ▶ Repair instructions generated by the experienced Bosch authoring team and validated thanks to the expertise of the worldwide Bosch diagnostic community.
- ▶ First online information type which requires an internet access to ensure that the workshop is always provided with the latest content.
- ▶ Already over 700.000 real-life use cases / vehicle combinations – and the database is growing day by day!
- ▶ Optimal time savings: The free text search allows you to search for error codes, symptoms, and even components, as well as faults without error codes stored.
- ▶ Common structure of the repair instructions facilitates the repair process.
- ▶ The feedback function at the bottom of each repair instruction allows you and other ESI[tronic] 2.0 diagnostic experts to categorize and view the ratings of the selected fix.

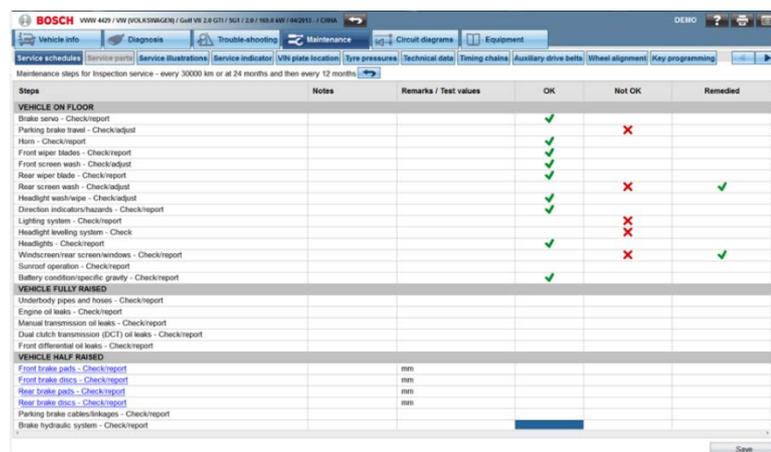


## VEHICLE MECHANICS AND MAINTENANCE SCHEDULES (MODULE M)

Maintenance information tabs contain service schedules, needed parts, tire size and pressures, wheel alignment data, key programming information, timing belt change instructions, service lights reset instructions and more, with a direct link to diagnostic functions when required.

Maintenance tab contains OE service schedules with specific workflows as well as regular maintenance information. This ensures that vehicle manufacturer warranties are maintained.

- ▶ Service schedule operations can be filled in directly via the tool and the reports edited or initially printed
- ▶ A vast majority of the day-to-day operations is contained in a single tab
- ▶ Maintenance also contains instructions with the following information:
  - ▶ Service Illustrations
  - ▶ Service Indicator
  - ▶ Exhaust Gas Treatment, Diesel Engine
  - ▶ VIN Plate Location
  - ▶ Technical Data
  - ▶ Timing Gears
  - ▶ Auxiliary Drive Belts

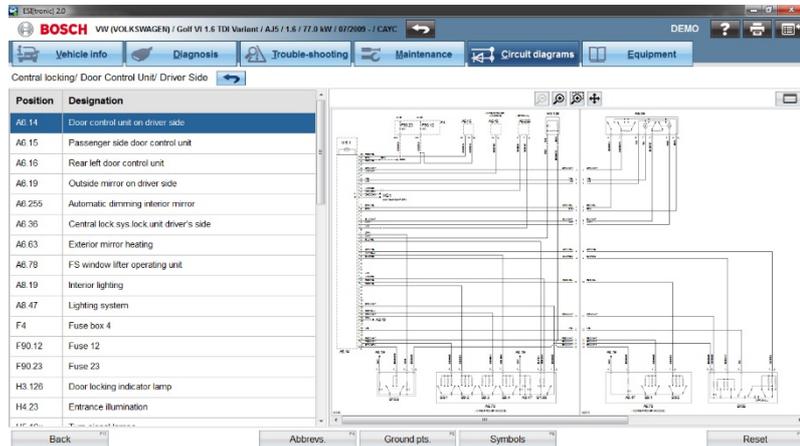


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## WIRING DIAGRAMS (MODULE P)

**Giant data base including wiring diagrams for all important systems such as engine management, comfort systems and bus systems for optimal efficiency.**

- ▶ Positions and designations of each item are clearly referenced. They are selectable from both the component list and directly from the diagram itself.
- ▶ The last selected diagram remains stored. It is automatically recalled when the end user performs other functions and returns to the Circuit Diagrams tab.
- ▶ Integrated search and automated highlighting
- ▶ General Features:  
ground points, full screen mode button and shortcut to line colors



## TECHNICAL HOTLINE / CAR REPAIR HOTLINE

**Our technical hotline has many years of experience in the workshop daily business and can help you in the diagnosis and repair of cars and commercial vehicles. Thanks to the comprehensive expertise in automotive engineering, even complex system problems can be solved quickly and competently. In case you do not have any solution, our experts will be able to perform remote diagnostics on your computer and solve the problem together with you.**

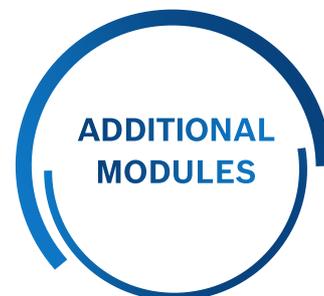
- ▶ Benefits for your workshop:
  - ▶ Comprehensive competence of Bosch in automotive systems engineering
  - ▶ Manufacturers and expertise in mechanical, electrical and electronic systems in the automotive sector across all brands
  - ▶ Quick problem solving
  - ▶ Constant availability of the latest information
- ▶ Advantages of the technical hotline at a glance:
  - ▶ Increased efficiency: service and repair become easier and faster
  - ▶ Reduced total costs of ownership: unnecessary use of personnel and workshop equipment avoided
  - ▶ Customer satisfaction: high due-date reliability and reduced costs can create a positive image and thus increase customer loyalty
  - ▶ Unburden your workshop manager: your workshop staff gets the support they need to run daily operations smoothly, leaving you to focus on more strategic tasks, e.g. customer satisfaction
  - ▶ Employee satisfaction: fast, competent support motivates your employees in their daily work

# Diagnostic Solutions ESI[tronic] 2.0

## ADDITIONAL SOFTWARE MODULES FOR SPECIALISTS IN THE WORKSHOP

### ESI[TRONIC] 2.0 INFORMATION MODULES FOR EQUIPMENT AND CALCULATION

- ▶ Equipment (Module A)
- ▶ Bosch diesel spare parts (Module D)
- ▶ Bosch electric spare parts (Module E)
- ▶ Component repair instructions (Module K)
- ▶ Injection pump test data (Module W)
- ▶ Work values (Module B)
- ▶ Service calculation (Module S)



All the vehicle parts-related modules can be found under the Equipment tab, e.g. work units, estimates, parts catalogues.



### ESI[TRONIC] BIKE - FOR MOTOR BIKES AND SCOOTERS

With ESI[tronic] Bike, a professional diagnosis of motor bikes and scooters is possible. ESI[tronic] Bike offers control unit diagnosis for the most common European and Asiatic bikes, with the diagnosis features of ESI[tronic] 2.0.

### ESI[TRONIC] TRUCK - FOR COMMERCIAL VEHICLES

In addition to control unit diagnosis, ESI[tronic] Truck also contains technical information such as circuit diagrams, service and repair information and information on commercial vehicles: trucks, light commercial vehicles, buses and trailers. Model series, power output, engine designation as well as axle configuration are included as the basis for a sound diagnosis. Other additional important diagnosis functions are available: Reading / deleting error codes, selecting actual values, activating actuators, resetting service intervals, and teaching in components.



# Diagnostic Solutions ESI[tronic] 2.0

## GOOD TO KNOW – DIAGNOSTICS OVER INTERNET PROTOCOL (DOIP)

More and more vehicle manufacturers are using a new diagnostic interface based on Ethernet, also known as DoIP (Diagnostics over Internet Protocol). The advantage of it is up to 100 times faster data transfer compared to previous technologies, which were mostly used for flashing the control unit. In addition to the speed advantage, ethernet-based diagnosis offers a secure and stable data transfer. It is not unlikely that in the near future, more and more manufacturers will use Ethernet for regular vehicle diagnostics as well. Being prepared for this development, the new diagnostic tester from the Bosch KTS series supports Ethernet as well as conventional vehicle interfaces. This means you are ready for the requirements of tomorrow with an intelligent solution from today.



Most European vehicle manufacturers have already equipped their current vehicle models with such new, Ethernet-based diagnostic interfaces. The Volvo XC90 is the first vehicle on the market allowing a complete diagnosis only by means of the Ethernet interface.

In the future, basic diagnoses will still be possible via CAN, but comprehensive diagnostics and the flashing of control units will only be done via the Ethernet interface.

ESI[tronic] 2.0 always supports the latest technology standards with regard to DoIP and is therefore the promising solution for every workshop in the future. The software automatically detects when to activate the Ethernet interface.

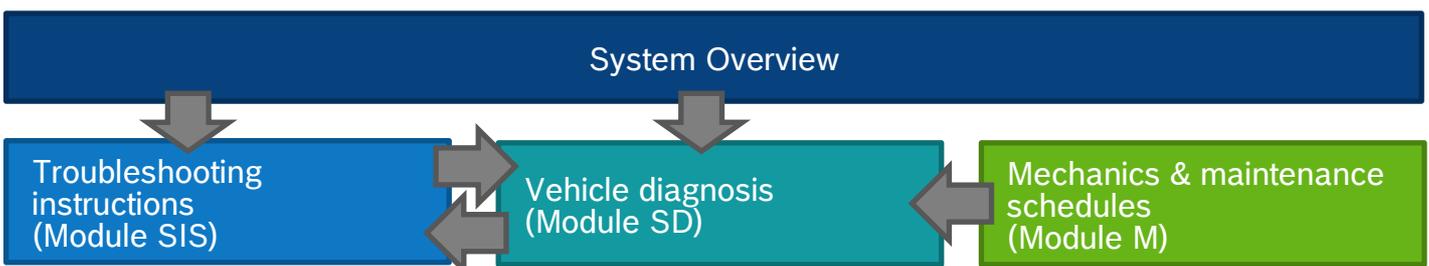
## GOOD TO KNOW – ESI[TRONIC] 2.0 AS A DOWNLOAD

Thanks to regular updates, automotive workshops can always be sure to have the latest data for all common vehicle types at their disposal. Whenever a Bosch diagnostic device connects to the internet, all updates will download automatically in the background while the device is still in use.

- ▶ Full online download option for ESI[tronic] 2.0
- ▶ High time-saving possibility thanks to easier installation process
- ▶ Download takes place in the background – ESI[tronic] 2.0 can be used simultaneously without limitation
- ▶ Store the ESI[tronic] 2.0 on a USB stick and then simply drag & drop it to an offline PC
- ▶ If an internet connection is not available, DVDs will remain as a proven update option

## GOOD TO KNOW – CAS[PLUS]

CAS[plus] in ESI[tronic] 2.0 can be used to quickly switch between the information modules for a convenient, fast and efficient daily diagnostic work environment:



Additionally, extended CAS[plus] functionality provides a seamless integration of the multimeter and oscilloscope of KTS.

# Diagnostic Solutions ESI[tronic] 2.0

## GOOD TO KNOW – ONE PURCHASE, SEVERAL USAGES

In consideration of expanding workshop activities, no additional software licenses are required for the hardware. The KTS can thus be used for several PCs in combination with the installed ESI[tronic] 2.0 software.

Your benefit: the comprehensive ESI[tronic] 2.0 solution on several devices for a one-time purchase.

## GOOD TO KNOW – SYSTEM REQUIREMENTS

The following operating systems are recommended for ESI[tronic] 2.0:

- ▶ Windows 7 (Home Premium 32+64 bit, Business 32+64 bit)
- ▶ Windows 8 (32+64 bit)
- ▶ Windows 10 (32+64 bit)

## GOOD TO KNOW – HOW BOSCH PRODUCTS WORK AS A COMPLETE SOLUTION



ESI[tronic] 2.0 supports the Bosch workshop connection concept known as Connected Repair. Thanks to regular updates, automotive workshops can be sure to always have the latest data of all common vehicles types at their disposal.

In other words, the software is linked to almost the entire Bosch Automotive Solutions product portfolio (such as KTS, DCU, FSA, BEA, EPS, DAS, HTD), as well as parts catalogues and repair workflows.

ESI[tronic] 2.0 goes hand in hand with our diagnostic hardware for efficiency and effectiveness in your daily work.

# Diagnostic Solutions ESI[tronic] 2.0

## DIAGNOSTIC SOLUTIONS – AVAILABLE AS PACKAGES

### KTS 560 / 590

- ▶ Modern electronic control unit diagnosis for the highest level of efficiency: can be used in combination with existing PC in the workshop or in combination with DCU 220 or 100.

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



### KTS 350

- ▶ Advanced diagnostic technology – KTS and DCU with ESI[tronic] 2.0 in one compact and robust device

 Order number: 0 684 400 350



### DCU 100

- ▶ Rugged tablet PC to be used in combination with a Bosch KTS 560 / 590 and ESI[tronic] 2.0

 Order number: 0 684 400 122



### DCU 220

- ▶ Multifunctionality at its best: a robust notebook combined with a tablet PC and state-of-the-art technology – for daily workshop challenges together with the KTS 560 / 590

 Order number: 0 684 400 230



### KTS 460

- ▶ Diagnostic starter package: DCU 100 and KTS 560

 Order number: 0 684 400 460



### KTS 960 & 980

- ▶ Complete wireless premium package with measuring technology: DCU 220 and KTS 560 or KTS 590

 Order number: 0 684 400 960 / 0 684 400 980



### KTS 995

- ▶ Premium package with additional professional measurement technology for vehicle analysis: DCU 220 + KTS 560 and FSA 500

 Order number: 0 684 400 995

