

For Automotive Professionals

TRIBOX Mobile

For cars, motorbikes and
commercial vehicles



TEVA

TEXA products guarantee excellent diagnostic coverage for vehicle makes and models.
In order to view what TEXA has to offer,
simply visit www.texa.com/applicationlist.

With the **TRIBOX Mobile**, TEXA offers the vehicle repair technician a modular system for all auto diagnostics operations.

One comprehensive tool that is simple to use and ensures exceptionally long life.



DIAGNOSTIC AND MEASURING INTERFACE: MULTIBRAND, MULTI-ENVIRONMENT

The need to build vehicles with a low environmental impact and an increasingly broad range of comfort systems has forced car manufacturers to find new, more sophisticated and innovative electronic systems.

As a consequence, the vehicle maintenance and after-sales service sectors are rapidly evolving and require new solutions to face these changes.

To meet these new demands, TEXA has created the **TRIBOX Mobile**, an extremely advanced diagnostics interface which is the perfect response to the needs of new repair procedures.

The objectives targeted when designing the TRIBOX Mobile included the creation of a diagnostics interface capable of carrying out both traditional electrical tests, i.e. using an oscilloscope, as well as serial

“Auto diagnostics” tests. This was achieved by making it possible to fit different electronic modules on the TRIBOX Mobile.

The TRIBOX Mobile is also capable of communicating via the latest wireless technology. As well as short-range transmission via *Bluetooth*, remote communication is also available across the GPRS network, introducing the concept of true remote diagnostics.

The new tool can be connected to a wide range of TEXA display units: AXONE Palmtop, AXONE Pad, AXONE Direct, AXONE 3 Mobile, or even a PC in the workshop.

The TRIBOX Mobile combines multi-functionality with multi-environment operation, being able to connect to the onboard electronic systems of cars, motorbikes,

commercial vehicles, boats and jet skis.

The complete tool for forward-thinking workshops: as a modular product with vast technical potential, it is capable of adapting to the changing needs of repair technicians.



INFINITE DIAGNOSTICS METHODS: WITH AN EYE TO THE FUTURE!



When considering the purchase of a new diagnostics tool for the workshop, the main need is to find a state-of-the-art technological solution that will guarantee the investment over time. The TRIBOX Mobile meets this requirement.

This tool can be fitted with individual modules that can be used according to specific requirements.

This means that in the future, if having to perform diagnostics on hydrogen-powered vehicles, for example, simply purchase the corresponding module and fit it in the tool, without having to replace the tool itself: a convenient and cost-saving solution that protects your investment!

The following modules are currently available: the T-DIA Auto Diagnostics Module; the ACQ4 Measurement

Module; the BPP Module; the TNET Module.

The **T-DIA Auto Diagnostics Module** makes the TRIBOX the ideal tool for working on vehicle electronic control units. With rapid connection to the vehicle's electronic systems, a wide range of operations can be performed: reading faults, operating parameters, configurations, adjustments, activations, resetting on-board warning lights and programming keys.

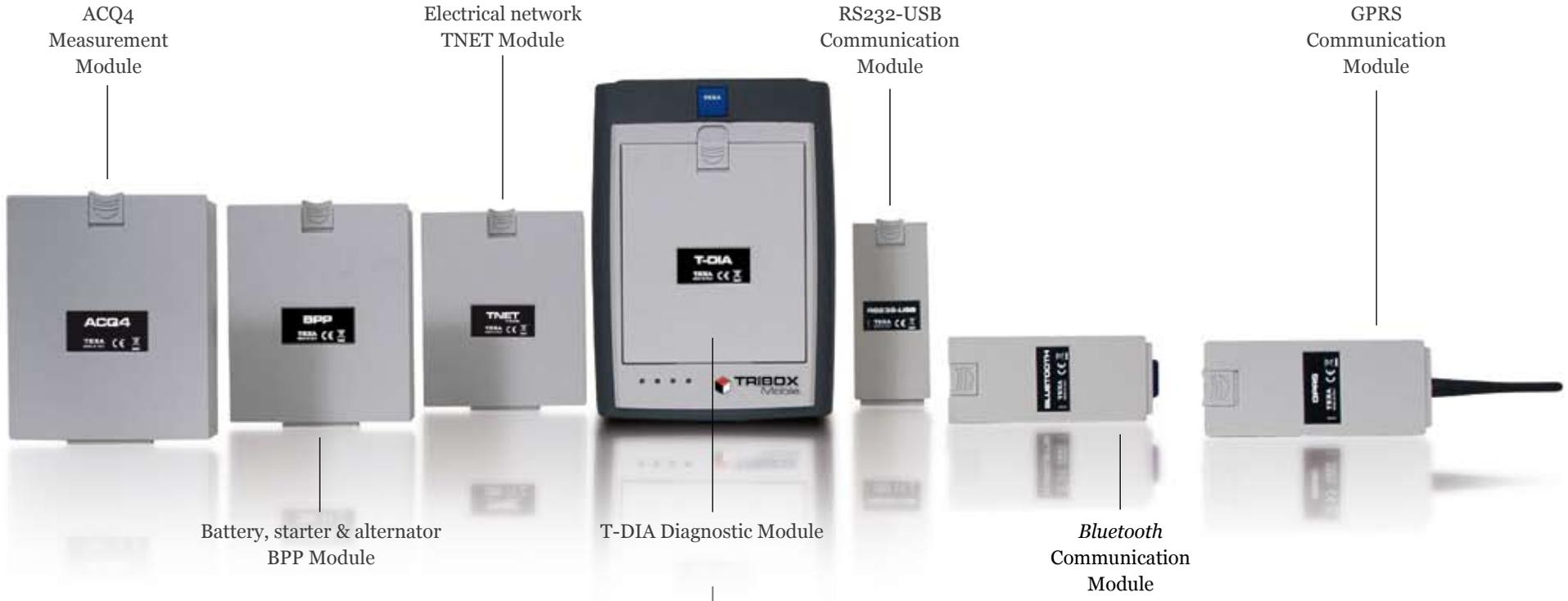
By using the **ACQ4 Measurement Module** (Multimeter and Oscilloscope), the repair technician can access a number of manual and automatic diagnostic features to aid in accurately identifying problems related to sensors, actuators and power supplies.

The Measurement Module can also be used with the specific pressure kit to measure fuel and manifold

pressure on a range of vehicles.

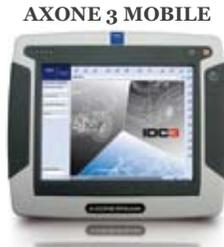
The **BPP Module** can be used to test the battery, the starter motor and the alternator;

The **TNET Module** can be used to run electrical tests on the current network technologies (CAN, VAN, LIN, etc.), checking for interruptions, short-circuits and possible faults.



TEXA INTERFACES

STAND-ALONE PC



TEXA INTRODUCES AUTOMATIC SCANNING OF SECOND GENERATION SYSTEMS

WITH TEXA GLOBAL SCAN 2 YOU CAN IMMEDIATELY GET TO THE POINT!



The **TGS2** system, TEXA Global Scan 2, is an addition to the main operating system IDC3, and represents the second generation in the automatic scanning of vehicle ECUs.

This innovation developed by TEXA offers the technician in depth analysis, on a wide range of brands and models, which has always been TEXA's strength. Compared to the first generation, TGS2 has been designed specifically for the needs of the multi-brand environment.

The advantages are obvious, as the technician receives immediate feedback on the systems that the TEXA tool can diagnose, and to which it can automatically connect directly. When a car comes into the workshop, the technician connects the TEXA interface to the diagnostics socket; in a fully automatic way, without any

other manual intervention, the IDC3 software scans all the known systems.

If after this procedure some system errors are identified, you can immediately enter in the diagnosis of the ECU to which they relate.

If the systems are fault free, you can use this facility to access the ECUs to perform further test or adjustments. There is no doubt that this new scanning generation is another important step by TEXA as a way of simplifying the diagnosis procedure as the technician's work becomes more complex.

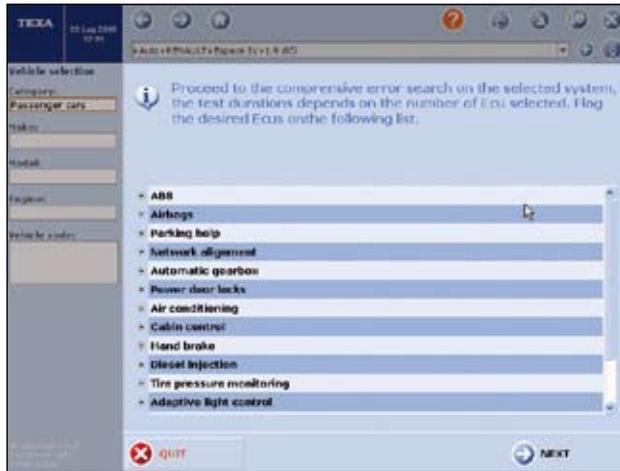
It is no longer necessary to look manually for faults: TGS2 can do it automatically, saving and improving accuracy.

The combination of TGS2 and Google "SEARCH"

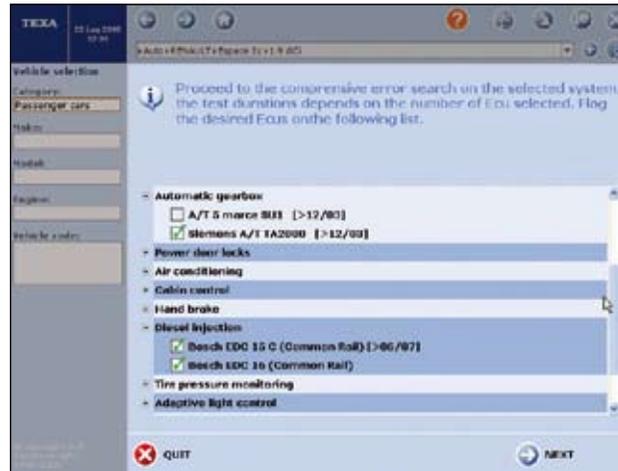
represents the best assistance that modern technology can offer when repairing modern vehicles.

Saving time and uncertainty, offering their customers a professional service, is a fundamental requirement of the modern technician; to satisfy this need, a new reference point, TEXA Global Scan 2, has been developed.

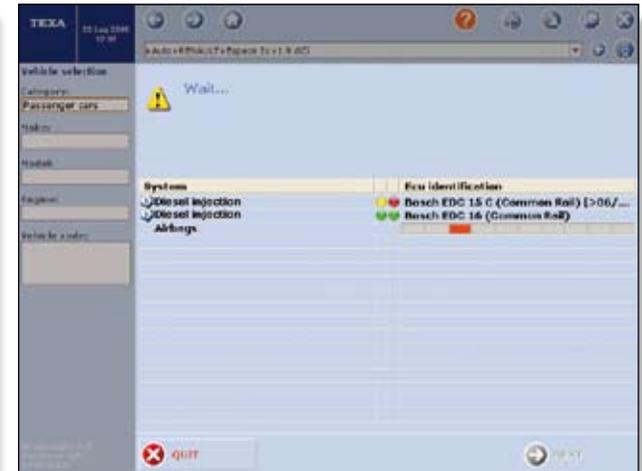
TGS2 IS SIMPLE AND EFFICIENT, IT SAVES TIME AND ENSURE CORRECT SYSTEM IDENTIFICATION



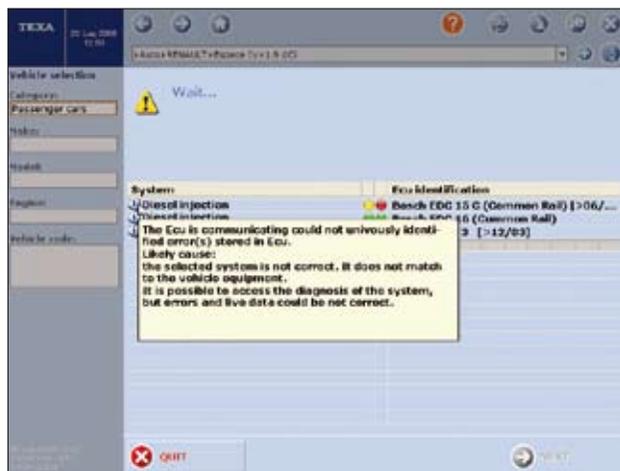
After selected the vehicle to be tested, a list of the available electronic systems is displayed.



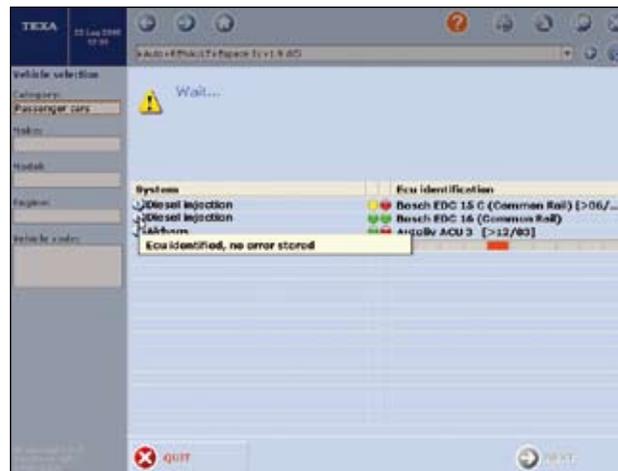
There is now an option to select more than one system at the same time from the menu.



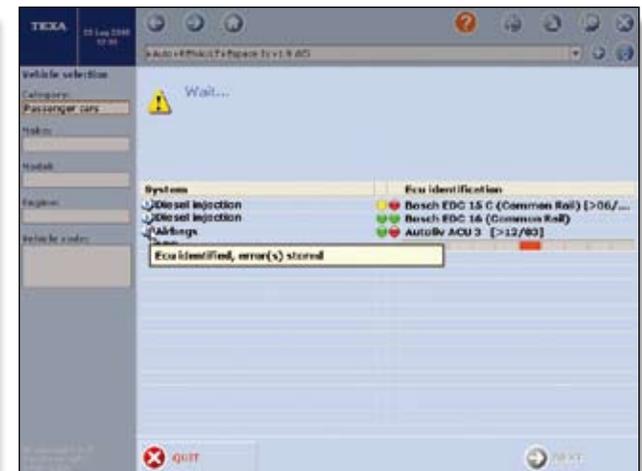
The software starts identifying the systems and ECU's available.



For every system identified a report is displayed. If a variant of a system is found, but full communication is not possible the user is notified, by a yellow icon in the first column.



In this case the ECU has been positively identified and allows full communication and there are no errors present. 2 green icons are displayed.



In this case the ECU has been positively identified and there are errors present. 1 green and 1 red icon are displayed.

INFORMATION AND DIAGNOSTICS ALWAYS TOGETHER



The TRIBOX Mobile makes use of a revolutionary software application, IDC3, in the Plus, Light or Pocket versions (the latter designed for the AXONE Palmtop, Pad and Direct display tools).

This operating environment combines the diagnostic tools and relative technical information. "Browsing" always starts by selecting the vehicle model or the vehicle registration number, if it has a previous repair history. All selections, information and diagnostic resources that follow will be referred to the initially selected make, model and electronic system.

Imagine, for example, that a car being repaired in the workshop has a brake problem; selecting the brand, model and ABS electronic system gives immediate access to technical specifications and system wiring

diagrams, (in the same way as the standard databases currently available on the market), as well as a wealth of additional information, such as:

- technical bulletins describing how to solve the problem. If the problem has previously been solved the entire procedure will be made available immediately;
- detailed wiring diagrams of the system and all components used by ABS control unit on the specific vehicle;
- the location of the various system components;
- technical datasheets with reference data and inspection procedures for each component (sensors-actuators);
- an auto diagnostics datasheet for communicating with that specific system;
- an oscilloscope already configured for electrical tests.

- the innovative SEARCH function powered by Google. When the work is complete, all the tests carried out on the vehicle can be saved and filed under the vehicle registration number.

Afterwards, by searching the registration number, the vehicle can be retrieved automatically, along with all the details of the operations completed and the results of each test.

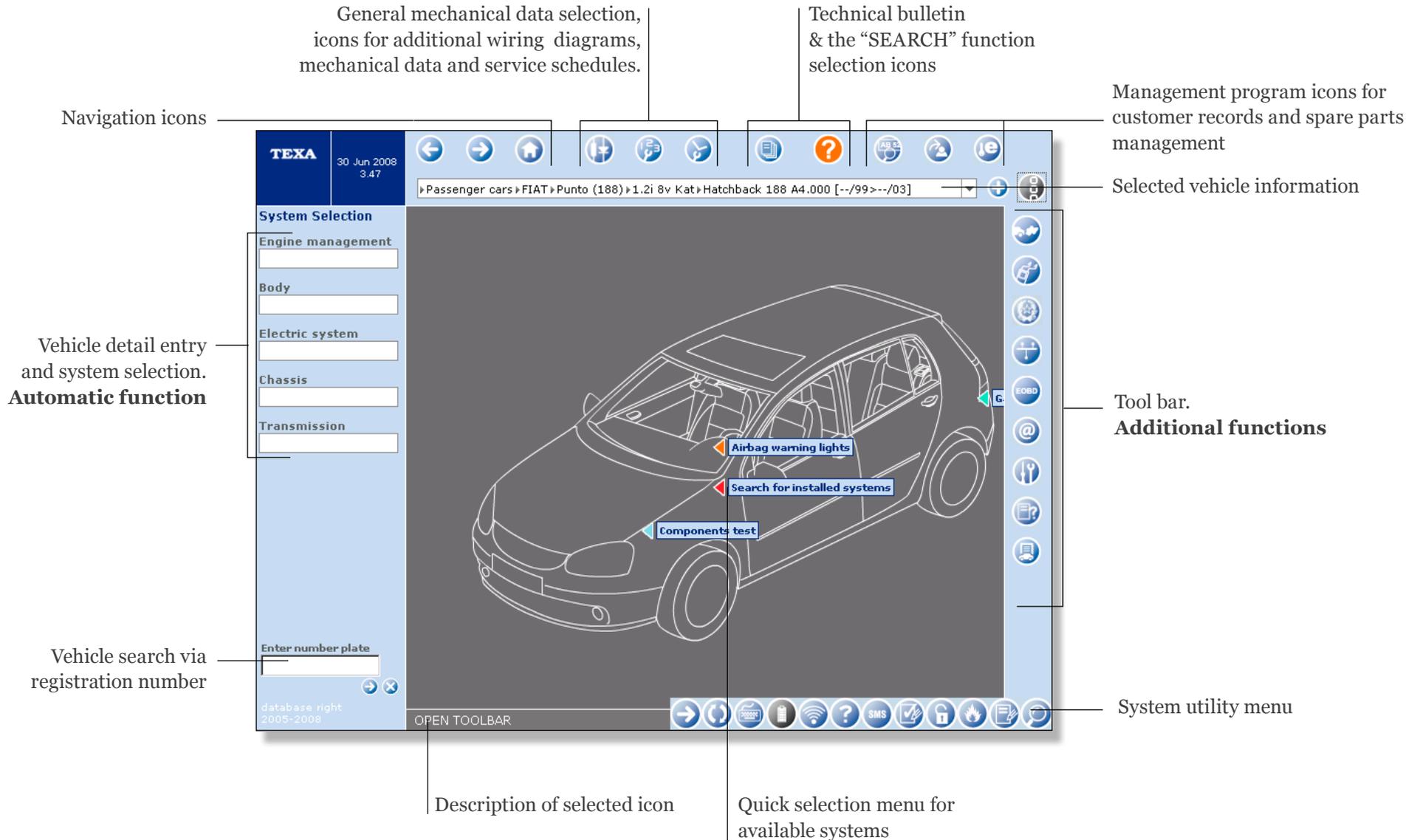


GENERAL DIAGNOSTICS

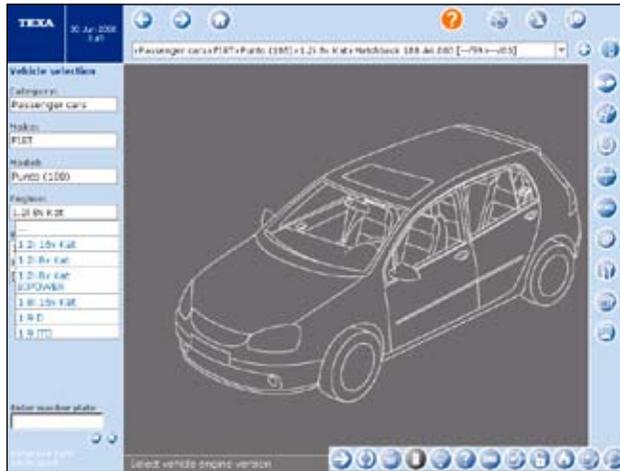
									
									
Information on ABS and engine management electronics	●	●	●	●	●	●	●	●	●
Electronic information (comfort and safety systems)	●		●	●		●	●		●
Mechanical technical data	●	●	●	●	●	●	●	●	●
Customer management	●	●		●	●		●	●	
Technical bulletins*	●	●	●	●	●	●	●	●	●
“SEARCH” Powered by Google*	●	●	●	●	●	●	●	●	●
Maintenance information	●		●	●		●			
Air-conditioning technical data	●		●	●		●			
Timing belts	●		●						
Measurements, Oscilloscope, Multimeter, Battery test, TNET	●	●	●	●	●	●	●	●	●
Auxiliary electrical info	●								
Spare parts management	●			●			●		

* Applies for specific services

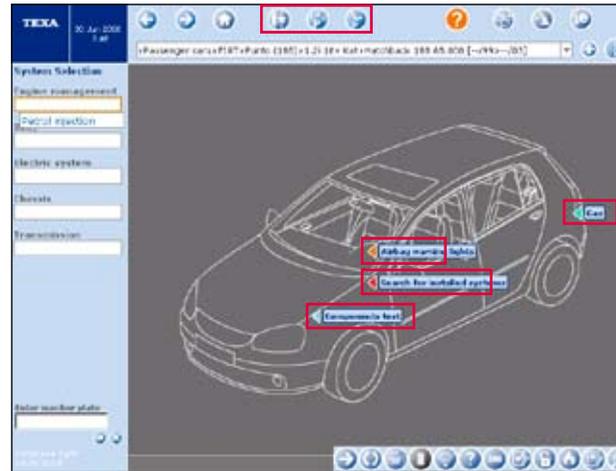
IDC3. THE OPERATING ENVIRONMENT FOR CARS, MOTORBIKES AND COMMERCIAL VEHICLES



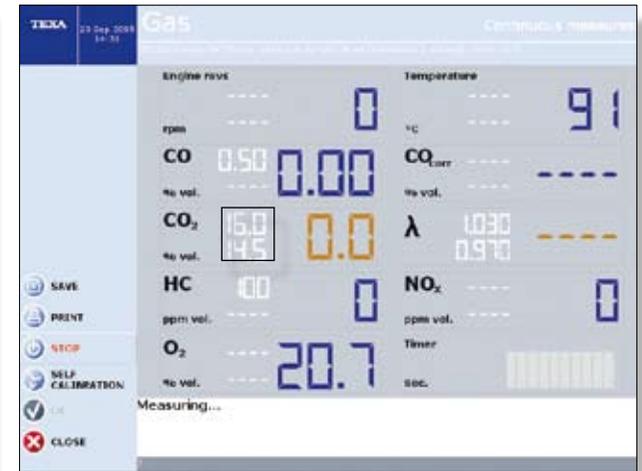
AUTOMATIC OPERATION BY SELECTING THE VEHICLE



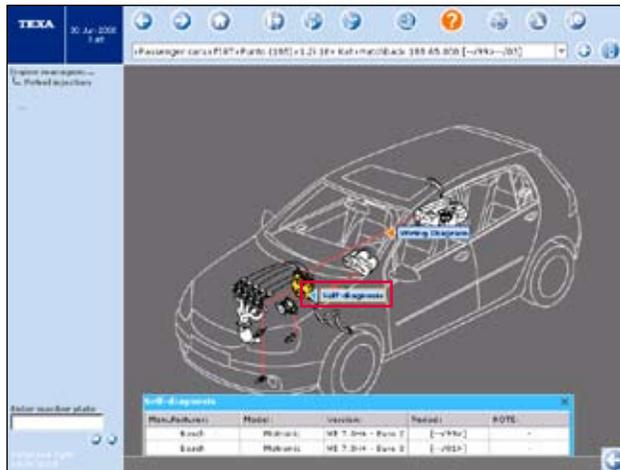
Select the make, model and engine. IDC3 will initially display general electrical, mechanical and maintenance information...



...specific selection icons will appear on the vehicle silhouette and at the top of the screen, to indicate which information is available.



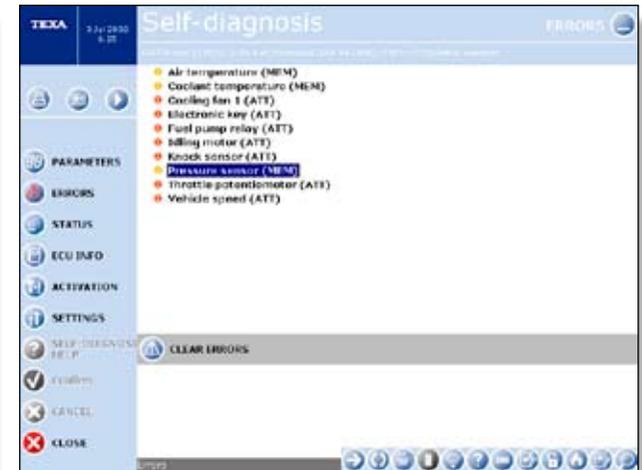
For example, select the "GAS" icon to directly access the emission analysis program. The specific reference limits for the selected model will be displayed.



A specific electronic system to be tested can then be selected, accessing the wiring diagram and diagnostic program.

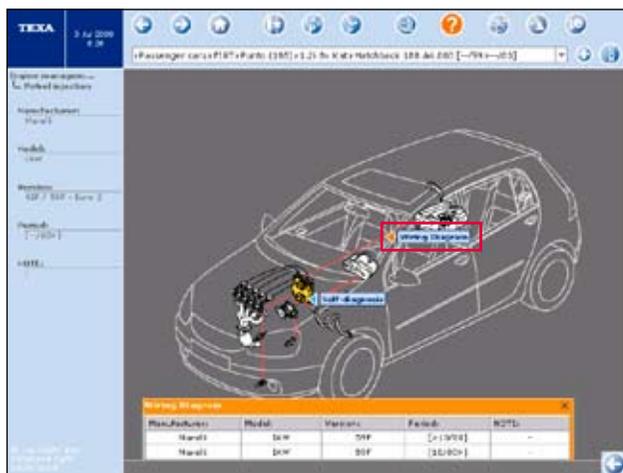


For example, by selecting the auto diagnostics program and connecting to the ECU, the list of engineering parameters can be accessed, and displayed on a graph.

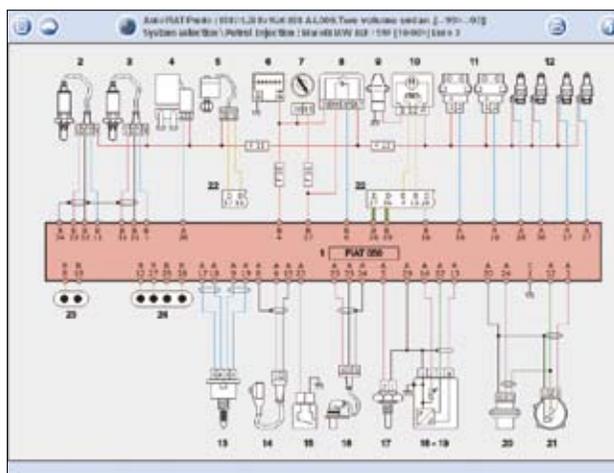


If the ECU has detected errors, these can be displayed clearly and completely.

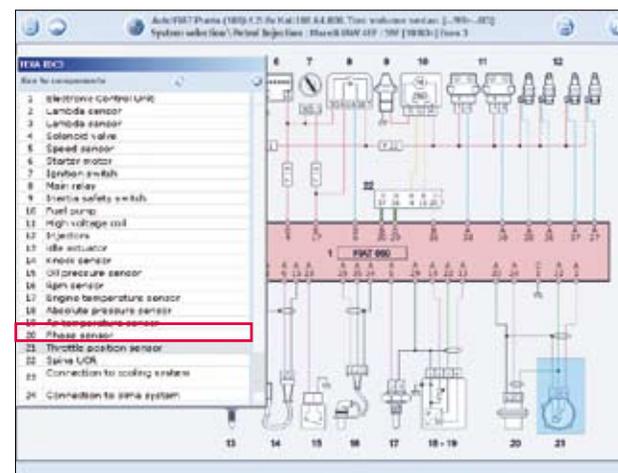
INSTANTLY AVAILABLE DIAGRAMS, INFORMATION AND TOOLS



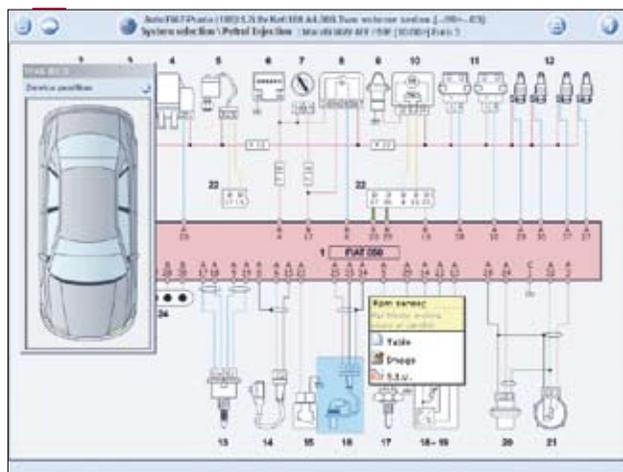
Select the wiring diagram icon, to display the circuits of the selected electronic systems...



...for all makes and electronic systems. The wiring diagrams are displayed according to the TEXA standard.



Select the "COMPONENT KEY" icon to locate the component on the diagram, simply by identifying the item from the list.



Alternatively, select the "LOCATION" icon and select a component on the diagram: a red dot will appear indicating the position of the component in the vehicle.

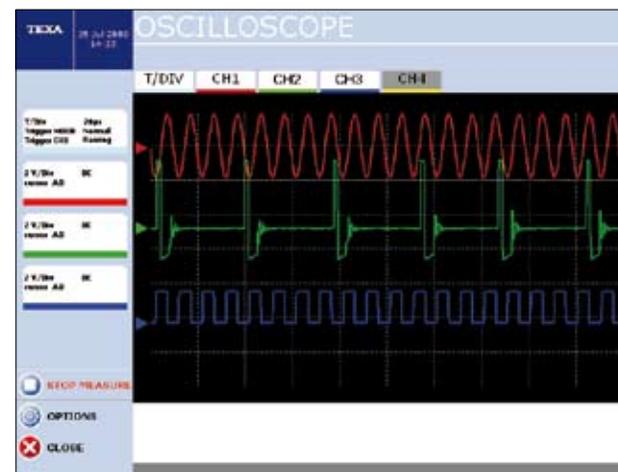
Injectors

Object: Analysis and Tests

Operating principle
 Special solenoid valves, called injectors, are used to monitor and inject the right amount of petrol into engine. Generally speaking, an injector is responsible for atomizing the fuel needed to form the air-fuel mixture. It consists of a metallic body containing a coil with a ferromagnetic core and an antagonist spring that holds the probe valve in closed position. Fuel inlet and outlet channels and the respective filters are found inside the injectors. The control pulses in the winding from the electronic control unit create a magnetic field on the core which raises the probe valve from its seat. This overcomes the load of the antagonist spring and consequently opens the injector. Given the physical characteristics of the fuel, the amount of injected petrol depends therefore only on the opening time of the injector (injection time).

Identification elements
 Identification of the actuator is rather simple given its characteristic appearance. Differences however depend on the injection system considered in particular; injectors may be fitted individually one on each cylinder. Alternatively, single injectors may be fitted directly over the accelerator throttle. The basic operating principle is the same. The following figures show different configurations:

A list of information is available for each component in the wiring diagram. A complete technical datasheet can be shown for each...

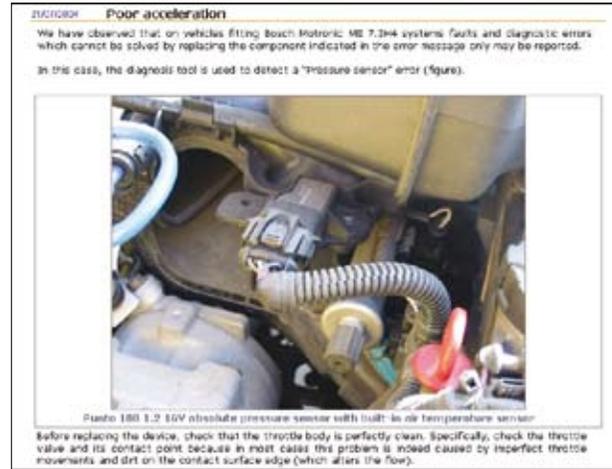


...alternatively, the Oscilloscope program, already configured for electrically testing the specific component, can be activated directly.

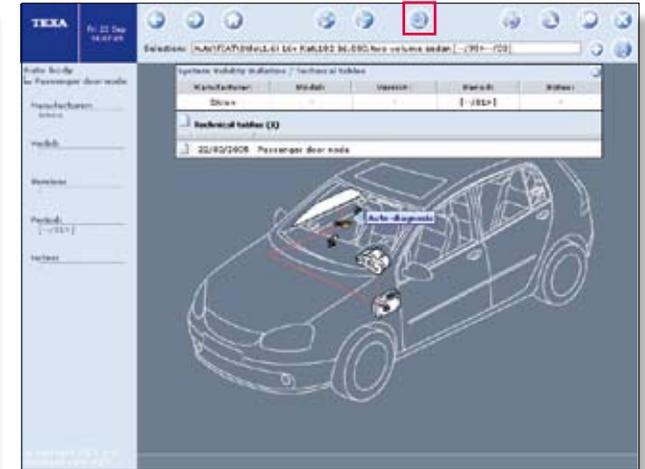
TECHNICAL BULLETINS



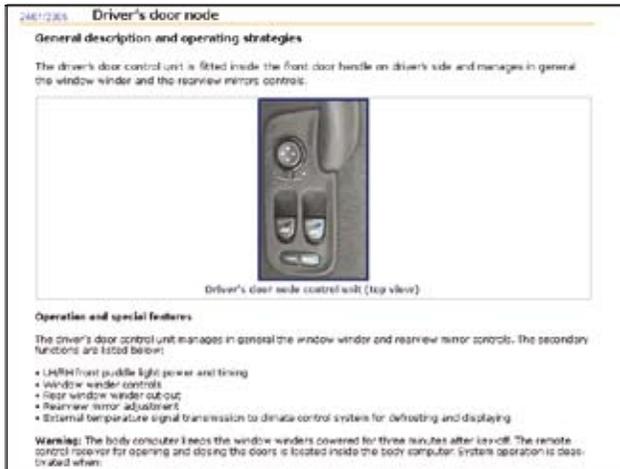
By selecting a vehicle and using the bulletin icon; a list of technical bulletins or test cards are accessible.



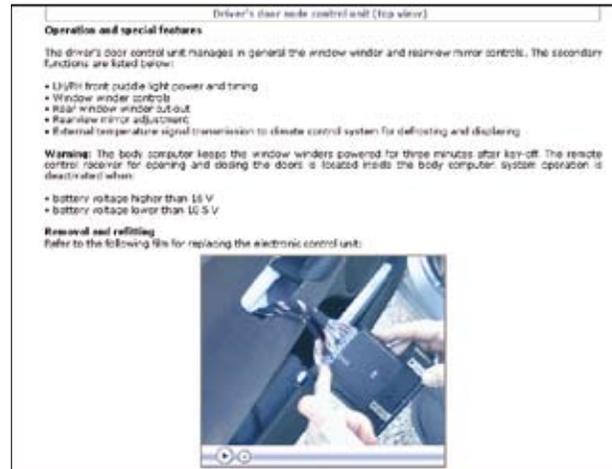
The bulletins provide information regarding repair procedures for a specific problem. The example displays a technical bulletin relating to a problem with poor acceleration.



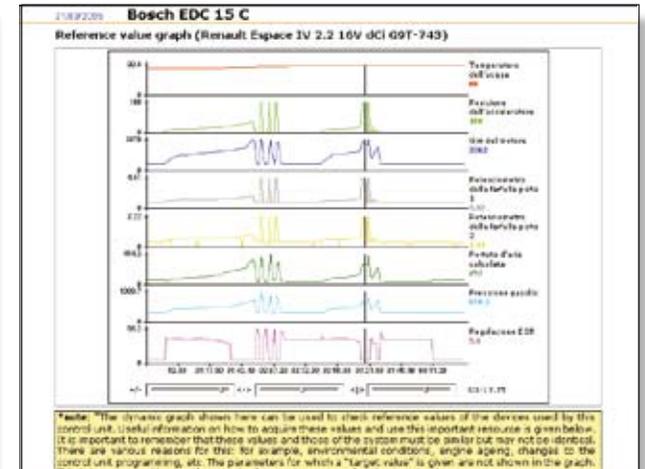
It is possible to retrieve the “test card” from the list which provides an overview of the selected electronic system’s functions.



In this example the electronic system’s control unit is displayed. The test card provides information regarding its function, technical characteristics...

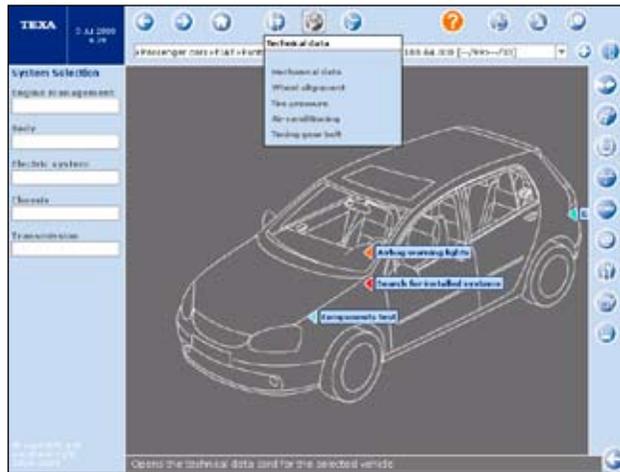


... The location and the procedure (video example) of the “removal and installation” of the control unit...

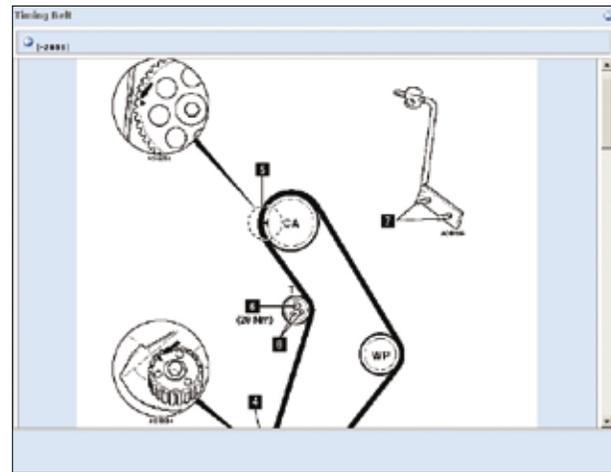


... Sample recordings are also available and may be used for comparison on a defective systems.

MECHANICAL AND SERVICING DATA



When the vehicle is selected and the available icons are displayed; it is possible to retrieve additional wiring diagrams, general technical data and servicing data.



By selecting the “general technical data” list, it is possible to view technical information for timing belt replacement....



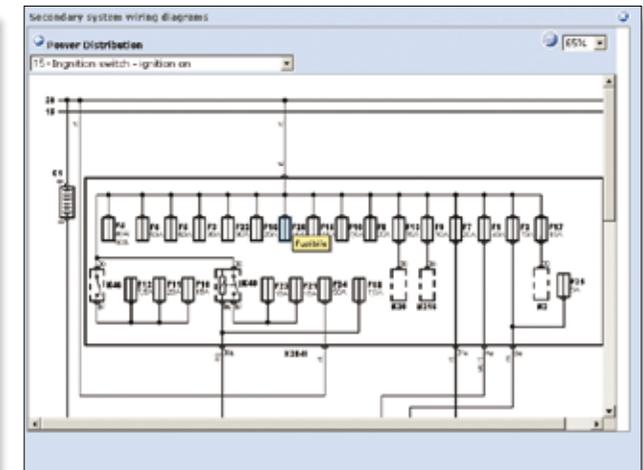
...or technical data relating to steering geometry and wheel alignment.



General technical data of the selected vehicle may be obtained.

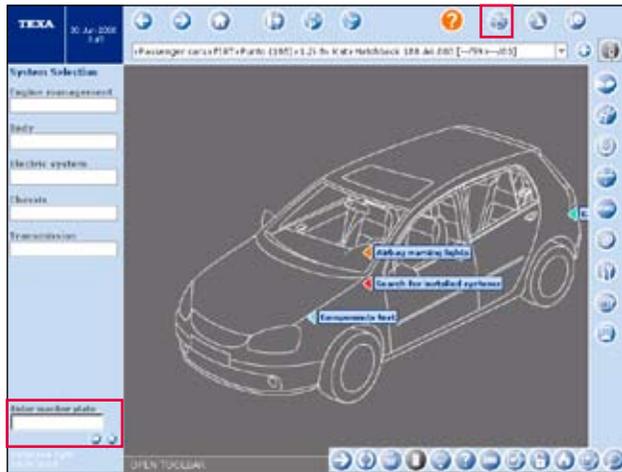


By selecting the SCHEDULED MAINTENANCE icon; vehicle specific service sheets may be retrieved....

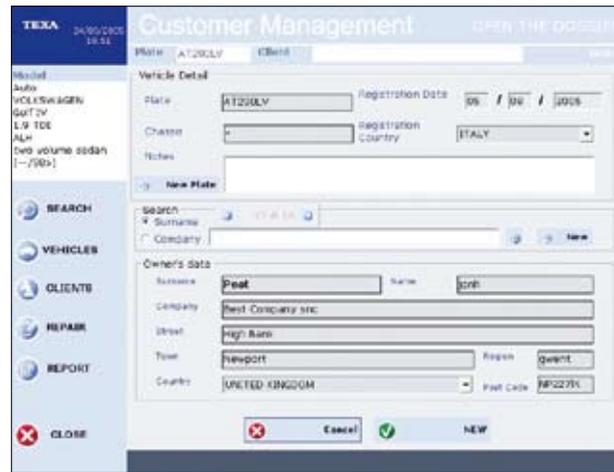


...whereas, by selecting the SUPPLEMENTARY WIRING DIAGRAM icon, electrical diagrams may be retrieved for secondary systems. The example displays the electrical power distribution circuit for the selected vehicle.

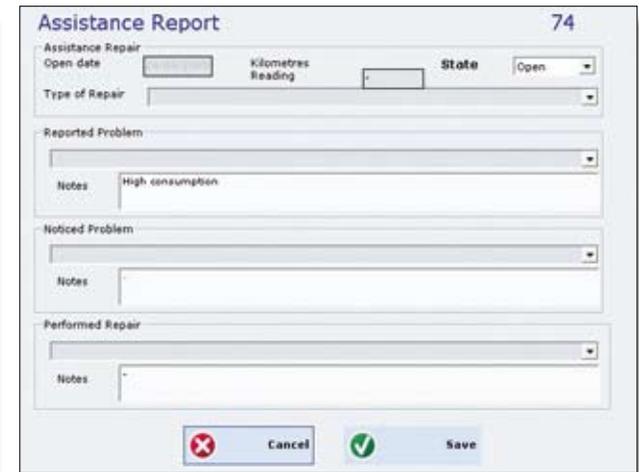
NEW CUSTOMERS AND REPAIR DOCUMENTATION



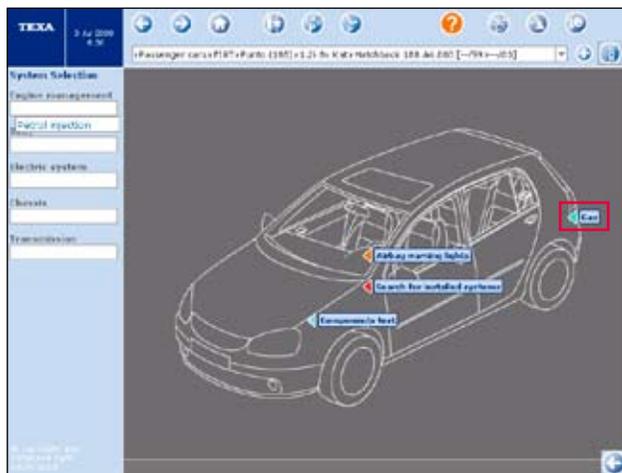
Once the vehicle information has been saved, the data may be retrieved by entering the vehicle registration details.



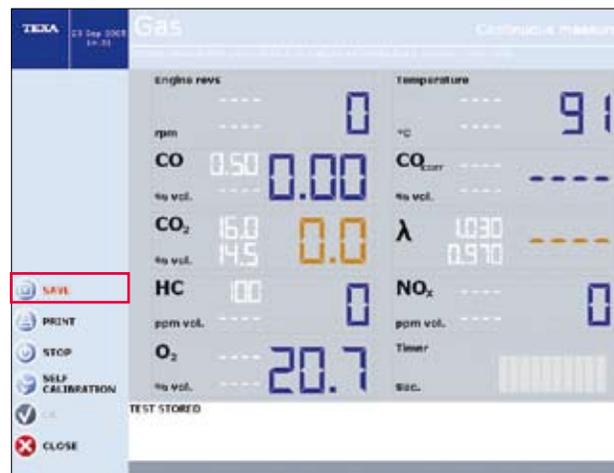
When the registration number is saved a screen is available where the Customer details and other relative data may be entered...



At this stage, the technician may add any details regarding the problem described by the customer in order to begin the repair process. By selecting the SAVE icon, the main page will appear.



Within the example relating to an report of excessive fuel consumption, the technician carries out an analysis on the vehicle's emissions by retrieving the programme via the GAS icon.

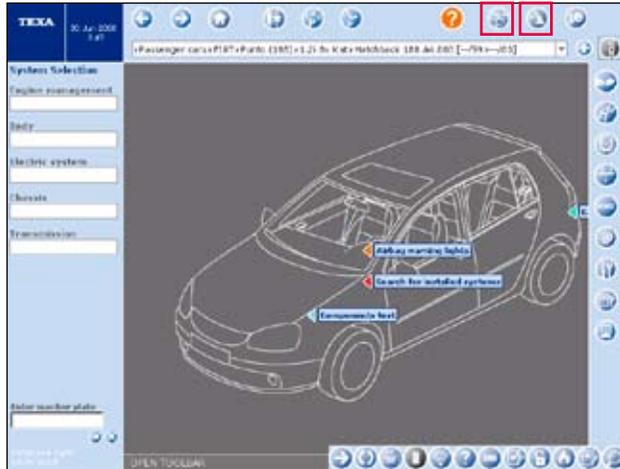


Once the measurement have been made...., the operator can save the test details by clicking on SAVE icon.

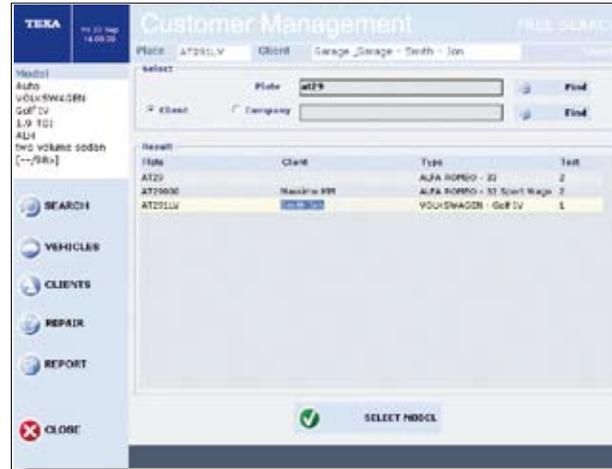


Once the repair is completed, the procedure may be recorded. As we are about to see; this information may be retrieved for future reference.

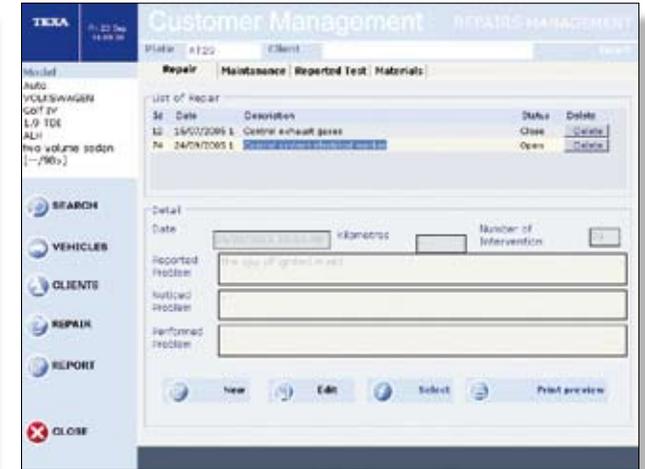
PREVIOUS CLIENTS, REPORTS AND RECORDED TESTS



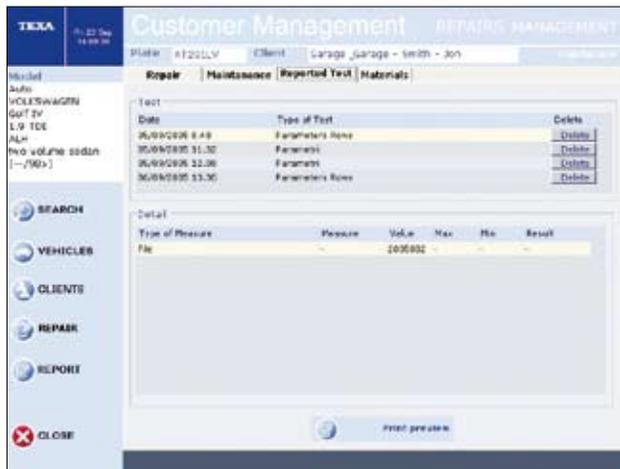
If a previous customer should return to the workshop; the technician may retrieve the vehicle customer information via the VEHICLE NUMBER PLATE or DATA MANAGEMENT icon.



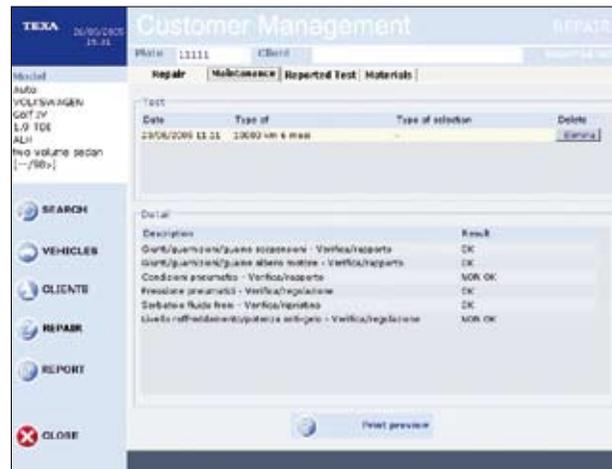
The operator may retrieve the information via the customer or company details. Once the vehicle has been identified, it is possible to retrieve previous repair information or proceed with new tests.



By selecting the REPAIR icon, the operator may view all the procedures carried out previously for the vehicle. The example displays a procedure relating to gas analysis.



At this stage, the operator may retrieve data regarding all previous procedures. The example displays the results of emissions analysis....

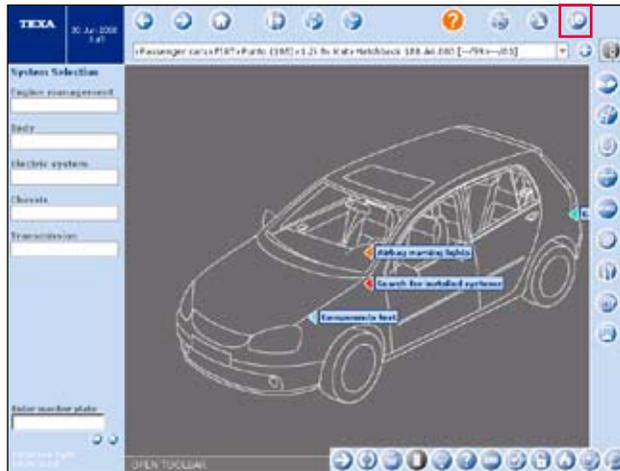


...service schedule check list...

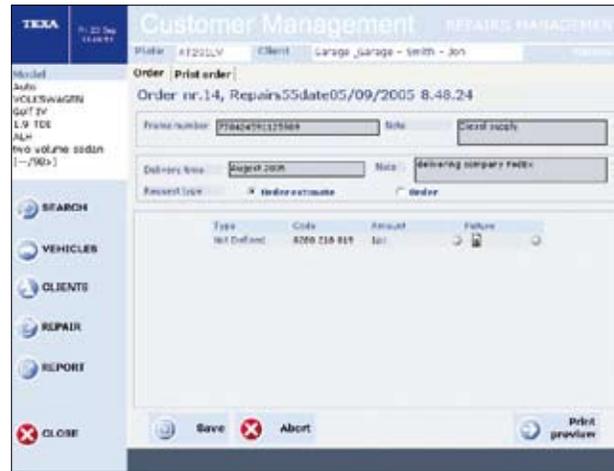


....parts used during the repair.

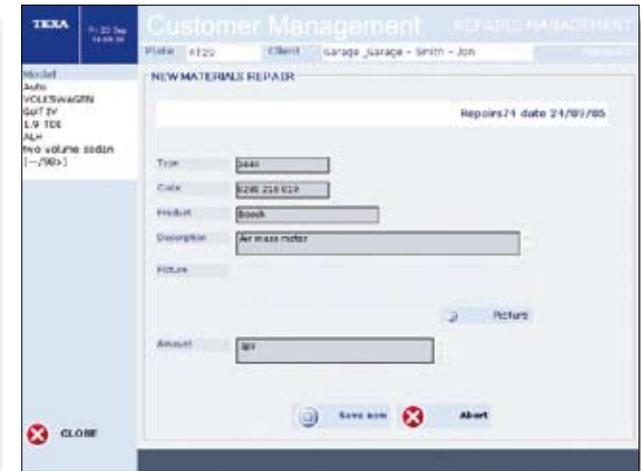
SPARE PARTS



By selecting the “SPARE PARTS MANAGEMENT” icon; a useful tool may be retrieved which will allow the technician...



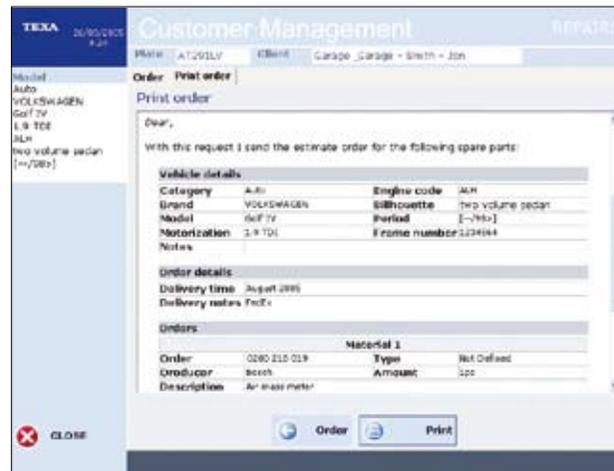
...to produce an electronic parts order...



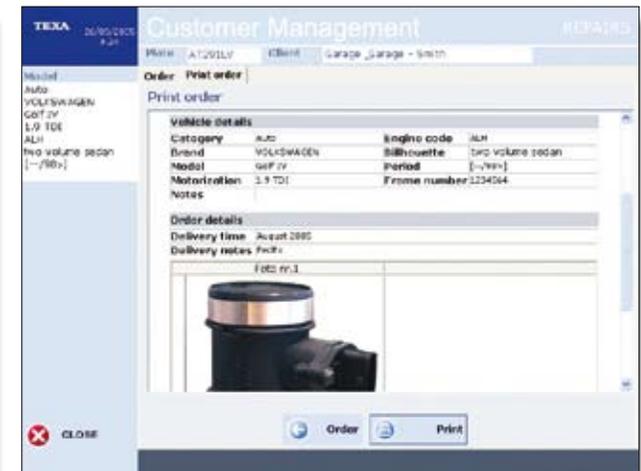
On this page the technician can add details of all required parts required for the repair.



The program allows the option to attach an image of the required part (which may be added using the tool's camera) which aids in identification.



This may be viewed and printed...



...and finally e-mailed or faxed directly.

CONNECTION MODES: A NEW WORLD WAITING TO BE DISCOVERED!

When you purchase the TRIBOX Mobile you are not just choosing a product that embodies cutting-edge technology, specifically designed to perform multibrand and multi-environment diagnostics: you are also entering a new world of diagnostics with new services and new test methods.

This is why TEXA engineers have worked hard on the communication functions between the tool and the display unit, so that the repair technician can choose from two possible connection modules, depending on requirements:

- a cable communication module, for serial and USB connections;
- a *Bluetooth* module for wireless communication;

The *Bluetooth* wireless module also simplifies

diagnostics on commercial vehicles, when sometimes a device located on the rear of a trailer needs to be tested: in this case, the user can move with the display unit (PC, AXONE 3 Mobile or MULTI PEGASO) away from the interface unit (TRIBOX Mobile) and work without problems.

Another exclusive and innovative feature is the GPRS module, which opens the door to remote diagnostics: in this configuration, the tool can be installed on the travelling vehicle and send information to the workshop via Internet and the GPRS network.

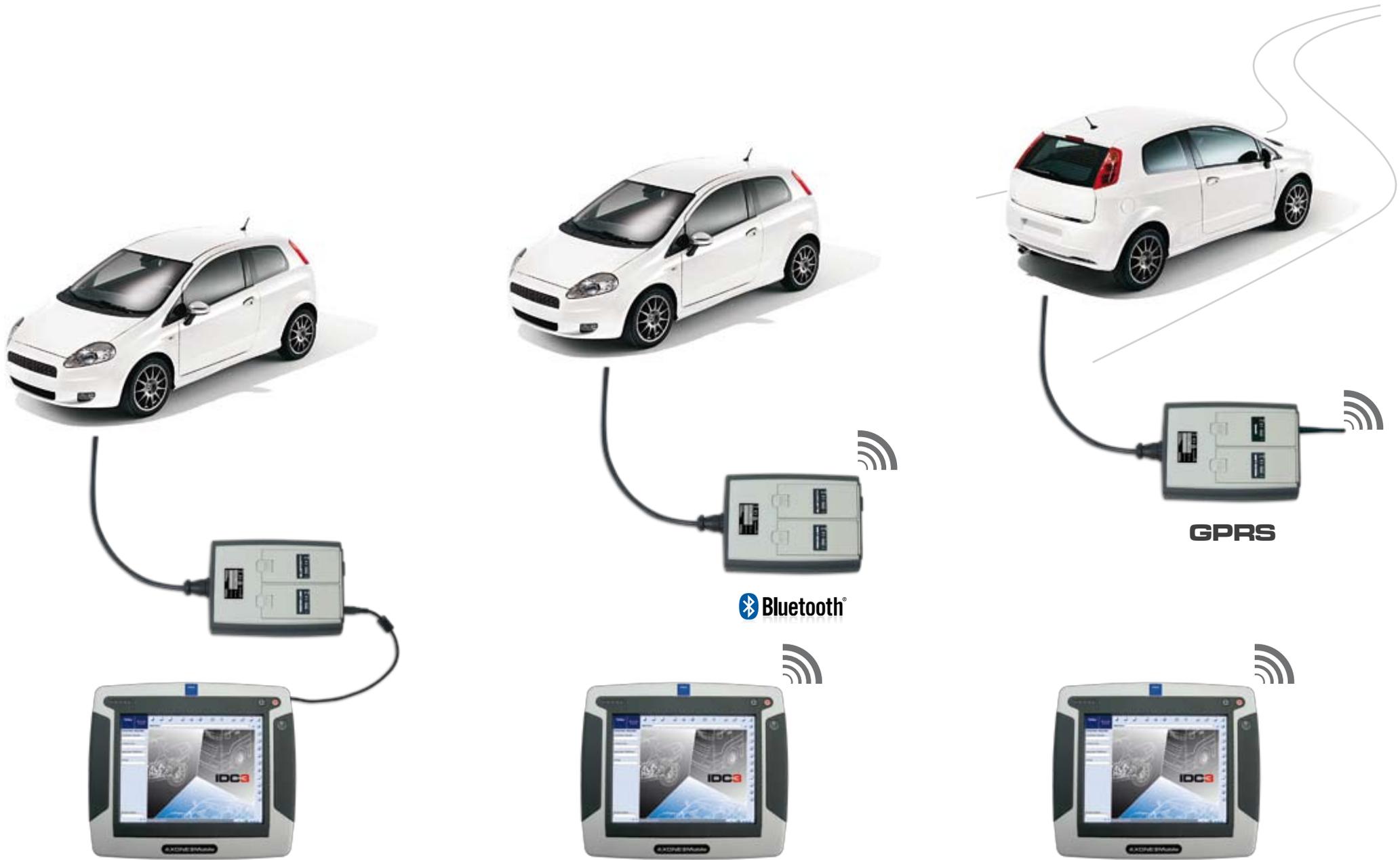
This exclusive function is fundamental for solving problems linked to particular situations that can only be simulated on the road.

This all works automatically by means of special software

which interacts directly with the travelling vehicle. Problems, even those occurring sporadically, are analysed and measured in real time, and the technician can communicate with the vehicle using the standard operating procedures.

This allows the situation to be monitored and analysed the moment the problem occurs.

OPERATING MODES



Connection via USB cable

Connection via *Bluetooth*

Connection via GPRS

ONLINE UPDATES AND INFORMATION



We all know that the Internet is a network connecting millions of computers worldwide, like a network of roads used for transporting people and goods.

All types of data can travel on the Internet. Those relevant to our sector include: messages, updates and upgrades, bulletins, service requests and other communications for supporting the automotive technician.

The main advantage of the network is its low costs for the user: anywhere in the world can be accessed to receive important information at the price of a local phone call.

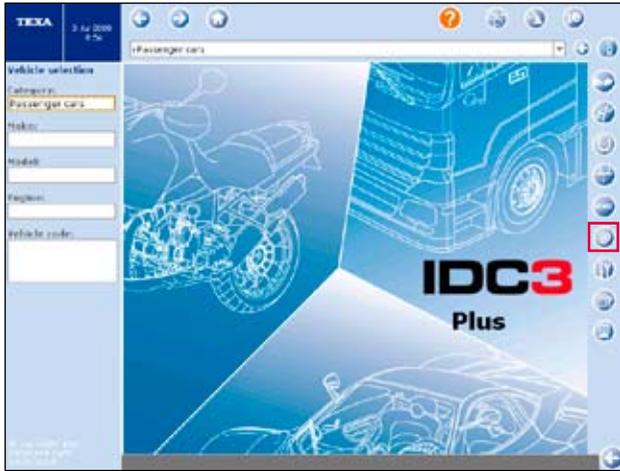
For this reason, TEXA has created a fully automatic network service for ensuring online updates and upgrades of all diagnostic tools.

The workshop can therefore work on all the electronic systems implemented by different manufacturers.

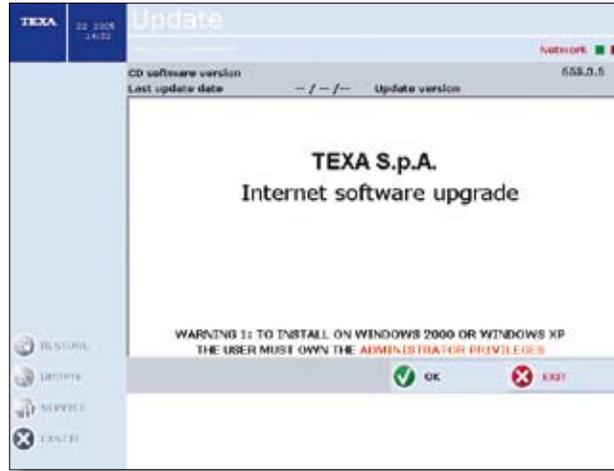
With continuous updates, technicians can follow the constant evolution of the systems and receive information in the technical bulletins that TEXA sends out once a week for solving “known problems”.

All technical bulletins are then automatically saved by the program in a specific database according to the specific model of car, bike or commercial vehicle they refer to. As explained previously, when accessing a specific vehicle model, the technician will find all the technical bulletins received.

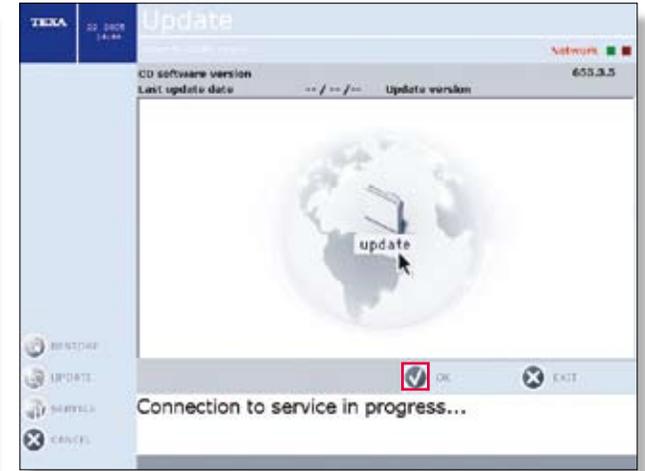
The TRIBOX Mobile updates will be made available on the PC used by the workshop or directly on the AXONE 3 Mobile and MULTI PEGASO, if the TRIBOX Mobile is used in combination with these units.



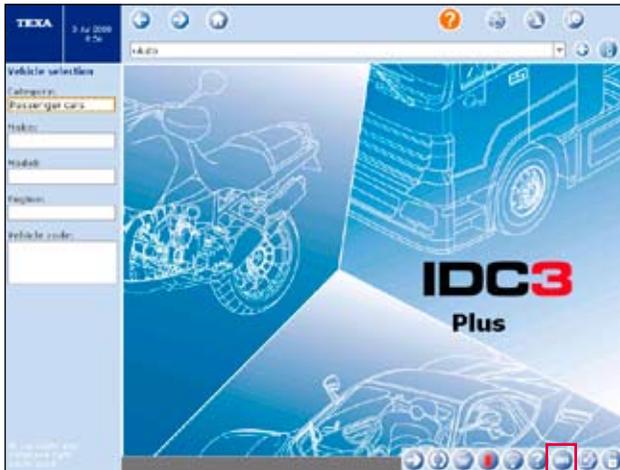
The “UPDATES” icon allows automatic Internet connection to check for any available software updates.



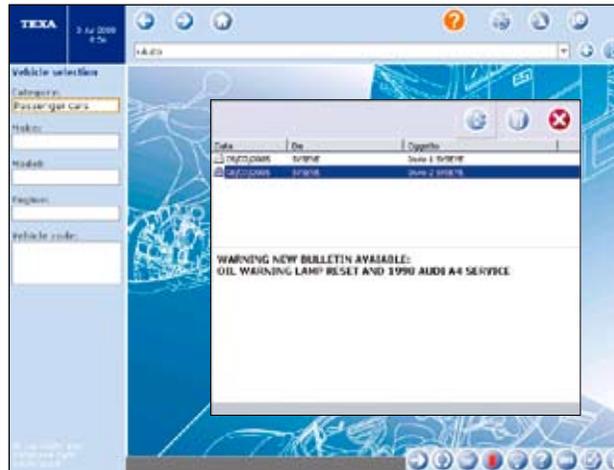
This page shows if any software updates are available.



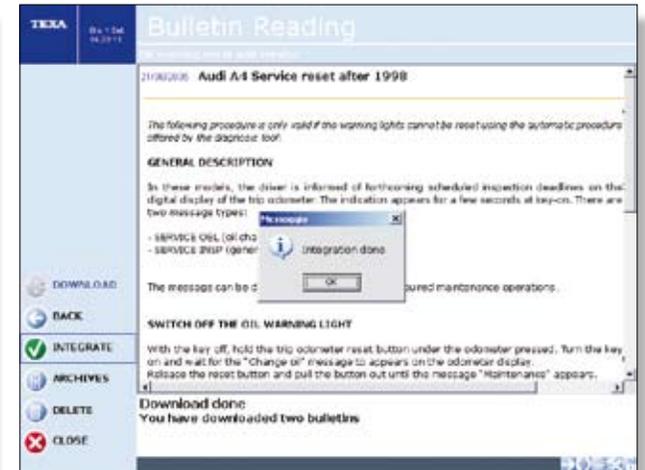
The “OK” icon allows the download to take place automatically.



An SMS informs the operator that a new technical bulletin is available for download. (only for Italian market)



General information regarding available bulletins may be viewed on this page. (only for Italian market)



The bulletin contents may be viewed and added to the information to the general data bank. (only for Italian market)

DETAILS



Shockproof rubber protection.



Operating status LEDs.



Module locking tab.



28-pin connector for the test socket.



Tool hook.



Carry strap.



Transmission module compartment.



Diagnostics module compartment.

KITS



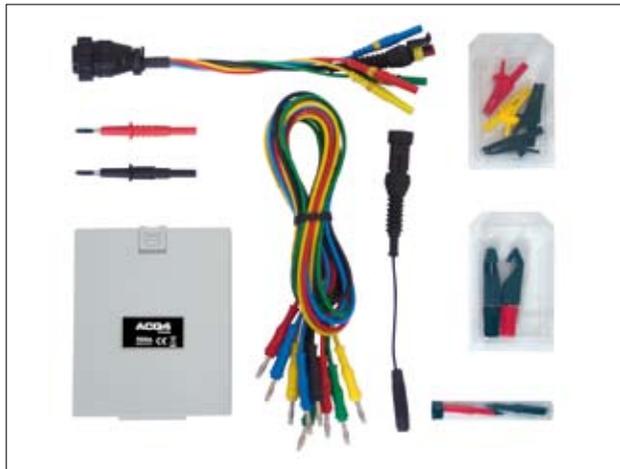
Bluetooth module



GPRS module



Auto diagnostics kit



Measurement kit



Car ignition and charging kit



TNET kit

CABLE CASES AVAILABLE

SPECIFIC CABLES FOR ALL MAKES AND MODELS



European cable case



Truck cable case



Bike cable case



Asian cable case



Additional Truck cable



Additional Bike cable case

TECHNICAL SPECIFICATIONS

- Remote diagnostics on travelling vehicles (GPRS module)
- Connection to the workshop display unit: *Bluetooth*, USB, Serial
- Can be used in industrial motor-vehicle environments
- Electronic switch for automatic auto-diagnostic communication port selection
- Different modules can be used to cover the complete range of diagnostic requirements
- Easy to use
- Integration with the database

Base unit for housing the communications modules

External power supply: 8 to 32 Volts

Power consumption at 12 V: 2.0 A max

Power consumption at 24 V: 1.2 A max

Operating temperature: +0°C/ +45°C

Operating humidity: 10% to 80% non-condensing

Dimensions: 220x160x60 mm

Bluetooth communication module

Radio frequency: 2.4 GHz

RF power: < 10 mW

USB, RS232 communication module

Connectors: USB-B, RJ45

GSM communication module

Radio frequency: 900/1800 MHz

T-DIA Auto Diagnostics Module

Types of protocols supported, blink codes, K, L ISO9141-2, ISO14230, SAE

J1850 PWM VPW, CAN ISO11898, ISO11519-2, SAE J1708

Switch electronic 8 lines K, 6 lines L, with current protection

ACQ4 Module

DC voltage measurements up to 200 V

Direct DC current measurements up to 2 A

DC current measurements with Bico2 amps clamp up to 400 A

DC current measurements with Bico3 amp clamp up to 1200 A

Oscilloscope up to 400 KHz

TNET Module

Electrical troubleshooting on CAN ISO11898, ISO11519-2 networks

BPP Module

Troubleshooting on starter systems (battery and starter motor)

Voltage measurements: DC up to 42 VDC



- 1. Operating status LEDs
- 2. Diagnostics module compartment
- 3. Module compartment opening clip
- 4. Shockproof rubber protection

- 5. 28-pin connector
- 6. Transmission module compartment
- 7. Strap hook

CLEAR AGREEMENTS AND TRANSPARENCY RIGHT FROM THE START

When you purchase a TEXA package you also subscribe to a “PURCHASE ORDER” contract that establishes the purchase conditions and all of your rights. (certain markets only)

Service

The TEXA service network guarantees customers excellent coverage, a vast range and exclusive service.

Product warranty

TEXA guarantees the product against faults and manufacturing defects ascertained and recognised by its service network, for a period of twenty-four months from the date of delivery or activation of the software. All repairs under warranty, unless otherwise agreed on in writing, must be carried out at an authorised service centre or by TEXA.

Software end-user license

TEXA authorises the customer to use the software contained in the PRODUCTS purchased based on a non-exclusive end-user license agreement for the sole purposes described in the PRODUCT user manual. In relation to the end-user license agreement, “software” refers to the program installed on the PRODUCT, and “license” the right to use or access a specific copy of such software.

Products

The products undergo continual development and consequently are subject to change; such changes may involve constructional modifications to the electronics, the mechanics and the cosmetics (including the colour and decorative elements).

The information and data provided in the brochures and advertising in general are purely indicative.

TEXA FINANCIAL SERVICE*

TEXA has for years been offering financial solutions that are unrivalled on the market, allowing DEALERS to offer customers particularly favourable terms of payment for purchasing TEXA tools and equipment.

“SISTEMA” is a simple formula that offers complete freedom in extending payments on your new TEXA tool based on your needs.

Contact your TEXA dealer for further information. They will then provide you an example of a personalised payment plan.



CALL CENTRE ASSISTANCE* AN EXPERT ALWAYS ON HAND TO HELP

Call Centre assistance and the prompt publication of technical bulletins, sent directly to the tool via SMS or via the Internet, are the main services now offered by TEXA to help technicians in their everyday work.

Help from professionals at the TEXA Call Centre is just a phone call away.



* Check availability in your country with your dealer.

TEXAEDU*

YOUR PROFESSIONAL DEVELOPMENT

In order to support and promote the professional development of its customers, TEXA has combined its range of tools and services with an exclusive training program: the TEXAEDU centre.

The training courses involve both the theoretical and practical aspects. The use of the tools is demonstrated directly in the classroom, right from the very first minute of the courses, with specific details on strategies for recognising errors in electronic control units or reading and interpreting a signal from an air mass meter.

With its vast range of diagnostics solutions, TEXA fully understands the real problems involved in auto repair work, and this is the basis for its training courses. By enrolling in the courses and obtaining the PROFESSIONAL SPECIALISATION CERTIFICATE, technicians can guarantee their professional future.



* Check availability in your country with your dealer.

UNI EN ISO 9001:2000

TEXA strongly believes and invests in the quality of its organisation, products and services. The TEXA quality project is based on the following principles:

Customer focus

TEXA has always been attentive to the needs of its customers, and is committed to continually satisfying their requirements and even exceeding their expectations;

Personnel involvement

At TEXA, the personnel, at all levels, represent the essence of the organisation; their complete involvement in the processes means their skills can be best used to serve the company;

Process approach

TEXA organises all its activities into a system of interrelated processes that together contribute to the achievement of the company goals, based on principles of effectiveness and efficiency;

Partnership with suppliers for mutual benefit

TEXA aims to establish strategic partnerships with its suppliers, convinced that close cooperation improves the ability of both parties to create value and translates into advantages for the customer;

Continual improvement

For TEXA, continual improvement of its performance is a permanent objective. TEXA is certified in accordance with UNI EN ISO 9001:2000.



* Check availability in your country with your dealer.



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Use your mobile phone to scan this symbol and receive further information on TEXA S.p.A. and its products*.

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**COMPANY
WITH QUALITY MANAGEMENT
SYSTEM CERTIFIED BY DNV
=ISO 9001: 2000=**

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MADE IN EUROPE

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