

IDC3

INFO DATA CENTER



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Introduction

Dear motor mechanic,

Thanks for choosing a TEXA SOFTWARE for your garage. We are sure that it will give you maximum satisfaction and will be a great help to your job.

We recommend that you carefully read the instructions mentioned in this operational manual, which has to be carefully read and kept for future references whenever the need arises.

The data, features and the description indicated in this manual are intended to be provided as indication referring to a particular software version. They do not make the manufacturer liable in any manner, who reserves the right to carry out required changes for improving the production, or for any technical or commercial need, at any time, without prior notice. Possible integrations to this manual, useful for the description of new versions of the program and new functions related to it, can also be made by means of technical bulletins delivered by TEXA S.p.A.

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R04

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Main regulations for operator's safety

This product has been designed and developed to be used by specialized technical personnel in the automobile field, such as electricians, technicians and engineers specialized in automobiles. Please do not allow the use of this equipment to non qualified personnel, to prevent personal injuries or damages to the tool or to the vehicle electronic systems connected to it. The place of work must be dry, with sufficient light and good ventilation. Particularly, the operations of car diagnosis which require running the engines must be done in a place equipped with exhaust fan system. Please note that inhaling carbon monoxide (odorless) can be injurious to the health.

When working on engines or other vehicle parts it is important to:

- Adequately wear protective cloths and act in a manner to prevent accidents.
- Before proceeding, be sure that the vehicle gear is in neutral (or in park position if the vehicle has automatic gear). Apply the security or parking brake of the vehicle tested and be sure that the wheels are blocked.
- Protect face, hand and feet and avoid any contacts with hot surfaces such as candle, exhaust pipes, radiators, connections of the cooling system.
- Please don't smoke and do not ignite flames while working on the vehicle.
- Be sure that every electrical connection is insulated and well soldered.
- Do not look directly at a close distance in the carburetor aspiration pipe while the engine is running.
- Keep hands and hair away from the moving parts.
- Never wear ties, large dresses, wrist jewels and watch while working on a vehicle, especially if the engine is running.
- Stay away from the fan, the cooling fan is controlled by a thermal switch related to the cooling liquid temperature. Disconnect fan cables while working on a hot engine, to prevent the unexpected start up even if the engine is switched off. Do not spill fuel directly in the carburetor, this can cause the engine to start up.
- Do not unscrew the radiator cap before the engine temperature is lowered along with the pressure in the cooling system.
- Do not touch the cables when the engine is running.
- Handle the portable lamps with care and use the ones with metal protection only.
- Wear accident prevention glasses to protect eyes against fuel, powder or metals.
- It is important to remember that the catalytic muffle reaches very high temperatures which can cause serious burns or fires.

Make sure that there are no oil stains, clothes, paper or other flammable materials, close to the muffler.

While working on batteries it is important to remember that:

Car batteries contain sulphuric acid and produce explosive gas. Therefore, pay attention to the following indications:

- Always wear protective glasses.
- Never leave tools on the battery, because they could cause accidental contacts.
- Before testing or recharging the battery, cover the battery openings with a cloth in order to smother explosive gas.
- Avoid spark while connecting the cables to the battery.
- Avoid electrolyte spurts on skin, on eyes and on dresses, because it is a corrosive and highly toxic compound.

While working with networked electric equipments it is necessary to:

- Check the ground connection of the equipment.
- Stop the current flow before connecting or disconnecting the cables.
- Avoid touching with wet hands.
- Operate with isolation from the ground.

Functioning of radio equipment devices

Please place the equipment in order to ensure the correct functioning of the radio devices contained in it. Particularly do not cover it with screen or metal materials and do not put it inside the trunk, the motor compartment or the glove compartment, if placed inside please make sure that the vehicle glasses are not shielded.

Before using the IDC3 software it is highly recommended to carefully read and understand the safety, installation and use instructions contained in this manual. The knowledge and the respect of the operational conditions and procedures described in the manual allow to work in a safe manner in order to ensure own personal safety and of the tools and operating vehicles. Texa does not endorse responsibility for direct or indirect damages to objects or people arising out of the unauthorized use of the software.

Instructions

The use of the IDC3 software is subject to the acceptance of the following conditions.

1. Responsibility

The client is responsible for the use of any tools and any software program put at TEXA S.p.A's disposal and sold by the retailer.

The client agrees to indemnify and not hold TEXA S.p.A and its retailer, responsible for any damage arising out of wrong use of the products, software and the information contained in it because of their utilization not in accordance to all indications, sequences and operational phases indicated in the program and in the instructions manual.

The client must use every data and information provided by TEXA S.p.A, or by the retailer or through the programs and utilization manuals, which must always be used as an addition to his own professional knowledge. The client is also aware of the product update importance in order to ensure continuous adaptation of the fast changing market requirements.

2. Software License

TEXA S.p.A. grants the client the use of the software contained in the products he bought, on the basis of a non exclusive use license contract and for the purposes described in this manual only.

As about the use of license contract, as "software", it means the program inside the product and as "license", the right to benefit by or access to a stated copy of the specific software.

The licensed client should keep the license contract in order to prove his right of use provided by TEXA S.p.A. If the licensed client does not accept the terms of the license of use, he must immediately return to the retailer the product containing the software subject to the license of use.

The software contained in the products is intellectual property of TEXA S.p.A. and its providers. The frame, organization and the code of the software are important commercial secrets and confidential information owned by TEXA S.p.A and its providers. The software is protected by the law of copyright, by the international treaties related to copyright, and by other international laws and treaties about the intellectual property. The client will be allowed to use only one copy of the software or a previous version of the system per license.

The client is not allowed to:

A) Loan, sublicense, borrow copy, modify, reproduce, translate, redesign, draw, disassemble the software he was licensed to use or the information contained in it.

B) Transmit via cable, air, or any other means, the entire software or part of it.

C) Create jobs or derive other jobs, partially or entirely based upon the software or upon other information contained in it, or upon the information associated to it.

D) Use, reproduce, print or commercialize the software or the information contained in it, under any form even if not indicated in this agreement.

The contract of license is valid for the entire period in which the software is used. It ends when the software and its documentation are destroyed. Besides, if the client does not respect what is laid down in this contract, the license will not be valid anymore. At the end of the use, the client agrees to destroy all copies of the software, both on memory card, CD-ROM/DVD, HARD DISK or other storage supports and the related documentation. The rights and the obligations contained in the license will not be given or delegated to other persons without the written permission of TEXA S.p.A.

The client installs and uses the software at his own risk and TEXA could not in any case be responsible for any loss or damage, including monetary loss or other losses resulting from the use or inability to use the software, or because of errors or lacks in the software, even if caused by negligence or by the use of the software in association with any other program. The client has the responsibility to check the possible presence of computer viruses in the products in which the software has to be installed. TEXA S.p.A does not endorse any responsibility for losses, damages or costs of any kind whatsoever, caused by the presence of computer viruses.

3. Warranty

SOFTWARE: Although TEXA S.p.A. has taken all the necessary steps to ensure the accuracy of the information contained in or displayed by the software, it does not guarantee that the software, or any information contained and displayed by it, will meet the clients needs, or is without errors, or with unlimited operating time or that any defect present in the software can be corrected. Data and material (in different type) included in the programs, or in the data access file, can come from different sources: Among these sources, the following ones are mentioned as examples: original material distributed by different manufacturers, and material, provided to Texa S.p.A by specialized corporations for developing this kind of information. Generally, the original material has however been drawn up for the advertising in Europe and for the utilization of vehicles produced according to the European specifications. The users should know that in the countries outside of Europe, the names and descriptions of the models and the specifications related to them can be different from those listed and proposed in the programs and tool to which this manual refers.

The warranty does not cover possible software conflict problems, when the software is installed on hardware platforms different from those ones produced by Texa S.p.A. (e.g. commercial personal computers, pocket PC, tablet PC). For example, we indicate as problems not recognized in the

warranty those that are generated by: Incompatibility between Texa programs and software environments having non adequate requirements or protected by antivirus systems preventing their normal installation and their normal working; environments damaged by virus, environments supported by inadequate hardware resources.

PLACE WHERE THE WARRANTY ASSISTANCE IS PERFORMED: Every repair under warranty, except different written agreement must be performed at TEXA S.p.A. head office or at the authorized TEXA S.p.A service center. The client has to pay all fees for the transport of the product to be repaired from his office to the service center and/or the fees for the transfers of the service personnel or of the service center to the client's office.

TRANSPORT: The warranty does not include the damages coming from transport and breakage caused by bad packaging done by clients for sending goods to repair.

MAINTENANCE: Before the delivery to the client, the product has been tested with accuracy by TEXA S.p.A and by the retailer if prescribed). The right to warranty will be null and void if the minimal maintenance operations prescribed in the manual have not been performed.

1 IDC3 Info Data Center



This is the initial frame opening the IDC3 operational environment (Info Data Center 3). This environment can support different categories of vehicles, (cars, motorcycles, industrial vehicles etc.) and several informative contents, which can anyway vary according to the different configurations and commercial offers (e.g. IDC3 Light and IDC3 Plus). The numbering starts from page 21 because the contents and the database are aligned with the update level and covering reached by the 21.0.0 version of TEXA general diagnostic program to which all products refer to. This manual describes the characteristics of the IDC 3 environment, in a more complete configuration (PLUS). The operational environment is structured in order to be constantly updated, and it is programmed for automatically containing and cataloguing the information it is able to receive through the online updates (Internet). The look, functions and contents can vary from version to version. In this manual we describe the general utilization modes and resources. Possible new functions or resources available in future updates and versions will be subjected to specific integrations in the online manual, or in specific technical information and support bulletins.

2 MAIN MENU

This is the initial page (Home). Following images appear during the start up and from which it is possible to start other new operational selections.

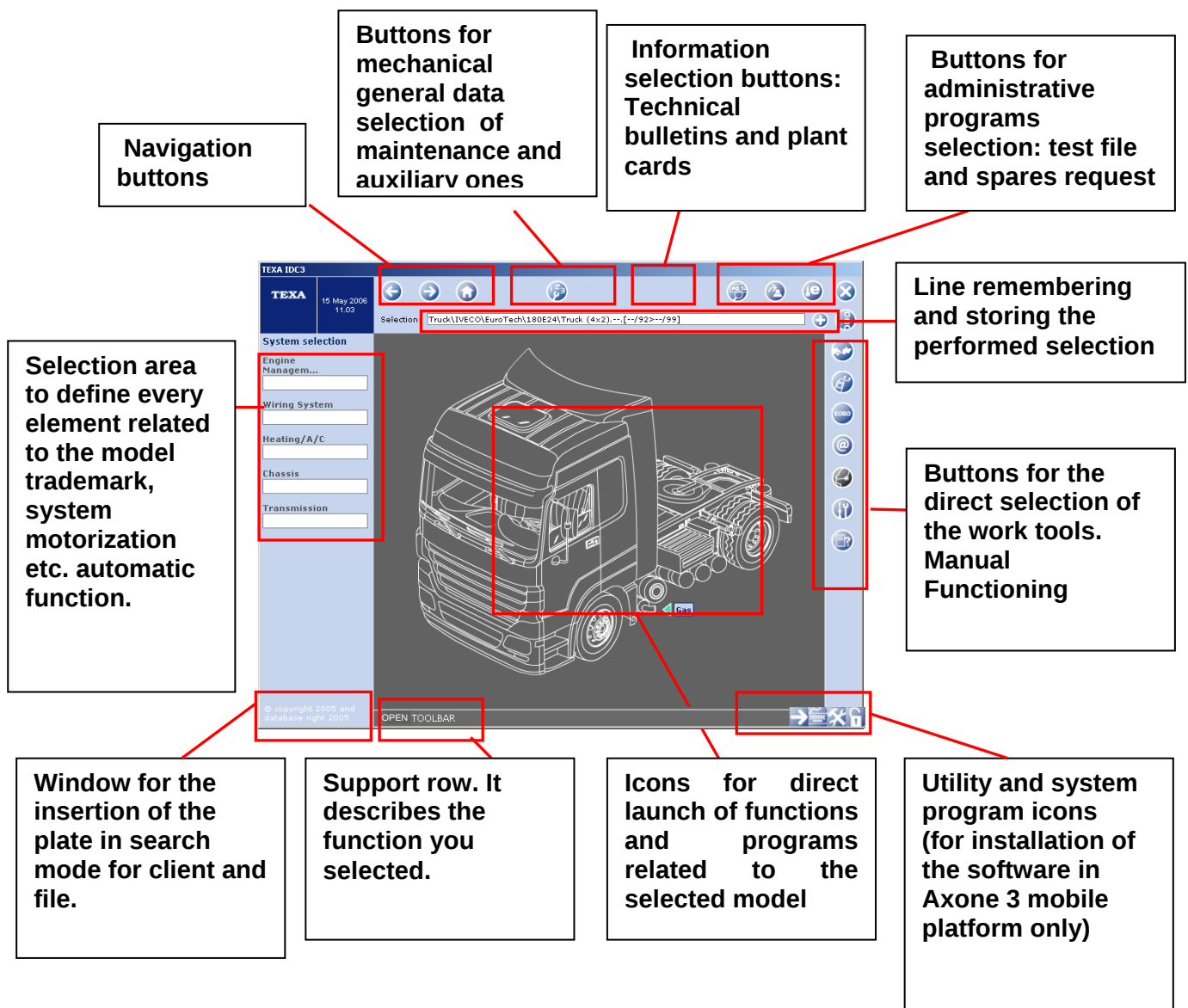


For returning to this initial page (Home), please click on this icon



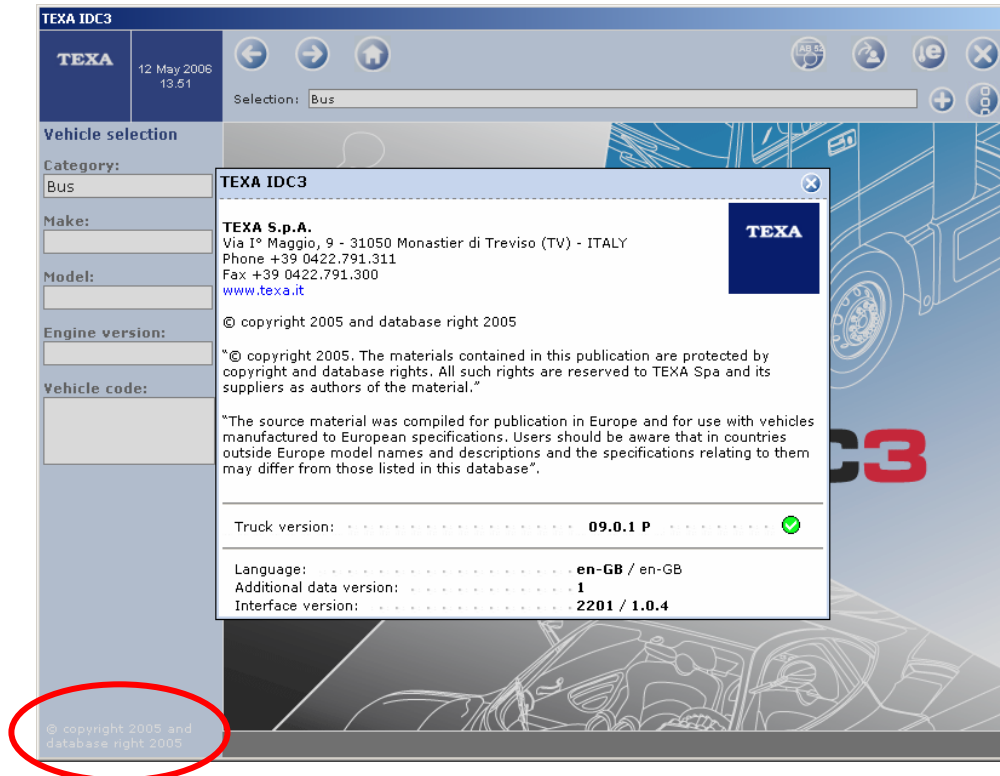
WARNING: The available choices and functions can be activated by directly pressing with the nib on the tool screen. If using the mouse, please click on the related icon.

In the work frame it is possible to distinguish several operational areas, grouped as follows:



Copyright and database right

By double clicking, selection of Copyright and database right, an explanatory page will appear giving details of the copyright regulations and the status of the installed versions.



System and Utility Functions and Icons

In the previous figures, different icons contained in the IDC3 environment are shown. Among them there are general icons related to system commands or to functions or to utility programs. These icons are always available from the place in which you are.

Note: These icons are displayed on IDC3 PC installed or on Axone 3

Icon	Functions	Notes
	By clicking on the left icon you come back to the previous selection. With the right one you go to the next selection.	It is often used to do the executed path backwards.
	Clicking on this icon you go back to the initial page (the one appearing at the start up)	It is used to start a new selection.
	Clicking on this closes the present page/frame	
	This icon opens the submenu of the instrumental tests.	The tools are launched in manual mode, then they are not configured with the data taken from the IDC3 file.

Note: Icons available on Axone 3 platform only

Icon	Function	Notes:
 	These icons appear by clicking on the first icon, which extends the whole sequence of the available icons,	Fold away icons, available on the lower right corner for installation on platform Axon 3 Mobile only.
	This icon activate the virtual keyboard and can be used in case entering alphanumeric data is required	It is used when Axone 3 Mobile is not connected to a keyboard
	Enters a service menu which displays the charge status of the battery	

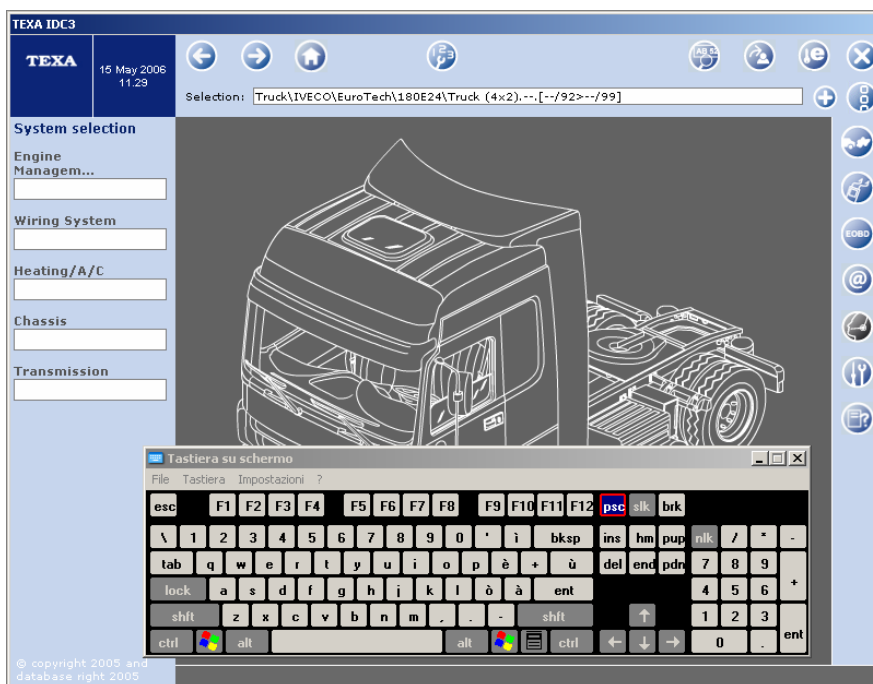
	Enables the access to particular service functions with the password request	Assistance only
	Touch screen regulation	To be used in case of wrong pointing
	Enters a service menu which displays the GSM level signal	
	Recalls the SMS display application	To be used for the visualization of the received SMS
	Allows to visualize the instrument series number	To be used in case of assistance for identifying your own instrument.

2.1 Keyboard use (for Axone 3 only)

As seen in the previous table, it is possible to recall any time the virtual keyboard which will be placed over the active frame.



By clicking this icon you enable the keyboard. It is possible to move the keyboard in the more comfortable area of the screen by dragging it with the nib, after having pressed on the higher bar of the keyboard (where the inscription On-Screen Keyboard appears).



Before typing the number or the word with the keyboard, please verify that the cursor is placed in the window in which you want to enter the data. This is possible by clicking on the window. Then, please type.

2.2 Touch Screen Calibration (for Axone 3 only)

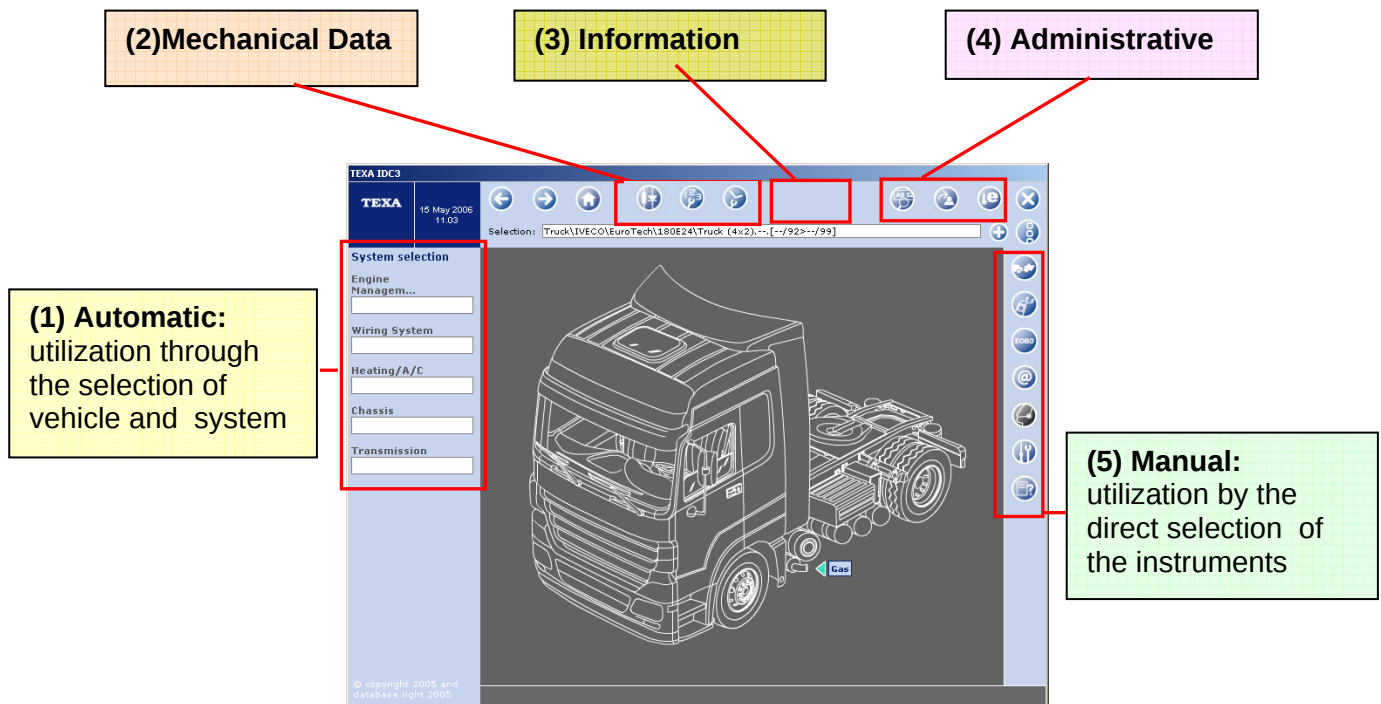


By clicking on this icon you activate the Touch-screen calibration window. Please follow this procedure by clicking “Task” proposed by the program. This will allow the operational system to store and synchronize the nib position with the screen one.



2.3 Operational Functions Utilization Modes

The work environment IDC3, provides several modes and utilization resources, which are synthesized in 5 different areas in the following figure.



1. Automatic selection area, for selection of a vehicle. In this case all instruments will be configured and prepared directly by the program without need of manual operation.
2. Mechanical and maintenance data area
3. Information area (bulletins and cards)
4. Clients and parts administrative programs area
5. Manual selection area, for direct selection of the instruments. In this case the selected instrument is available in generic mode, without particular reference data or configuration.

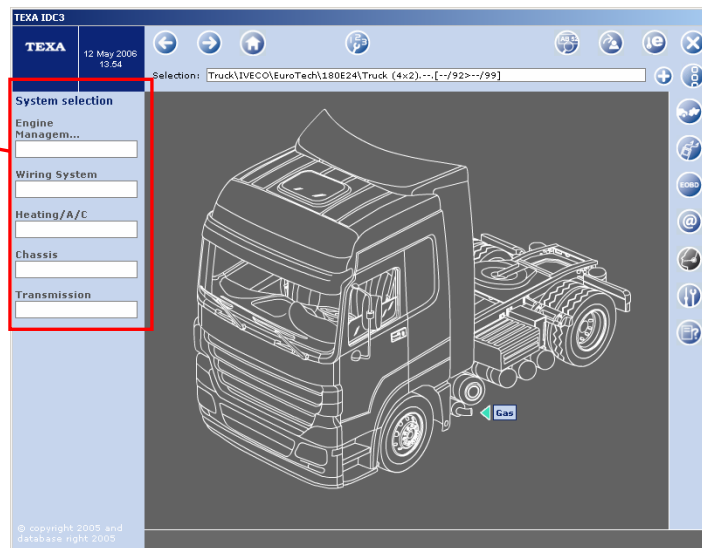
In this manual the diagnostic resources description provided by several instruments like:

- Oscilloscope
- Autodiagnosis (EOBD scan tools only)
- Gasoline engines exhaust gas analysis
- Diesel engines exhaust gas analysis

are described in a single paragraph for convenience. However, the utilization procedures are separated according to the initial type 1 choice "Utilization through the selection of a vehicle and system" or type 2 "Utilization through the direct selection of the instruments".

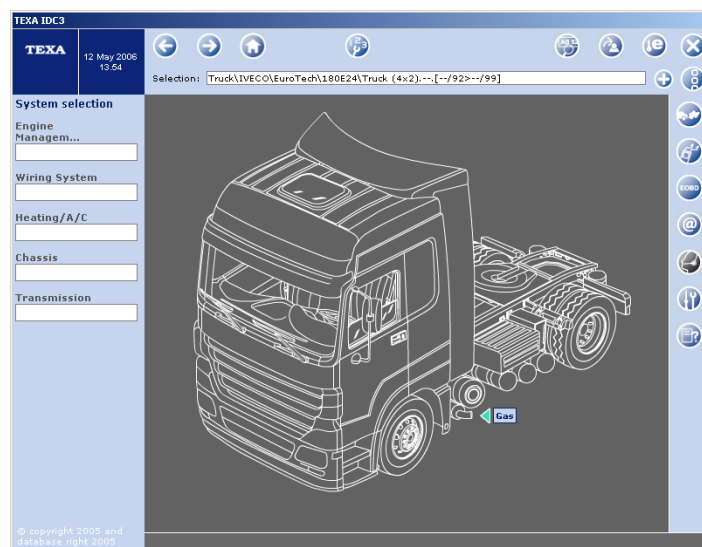
2.4 Automatic selection of a vehicle (area1)

Automatic:
Utilization through
the selection of a
vehicle and system



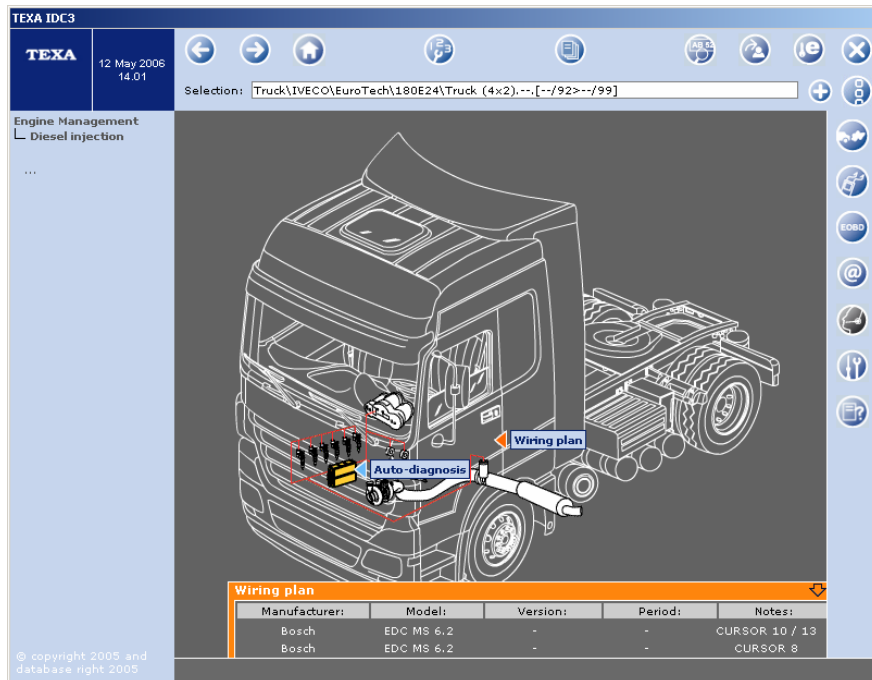
During the selection of the vehicle, there is the possibility to directly access to the Zero Setting Functions, Gas Analysis, Fumes, Analysis, Clients Administration and Spare Administration. The example shows the zero setting of the Airbag light.

The IDC3 environment has been created for containing information about different categories. The first selection can in fact request the choice of a specific category among the ones indicated in the list:

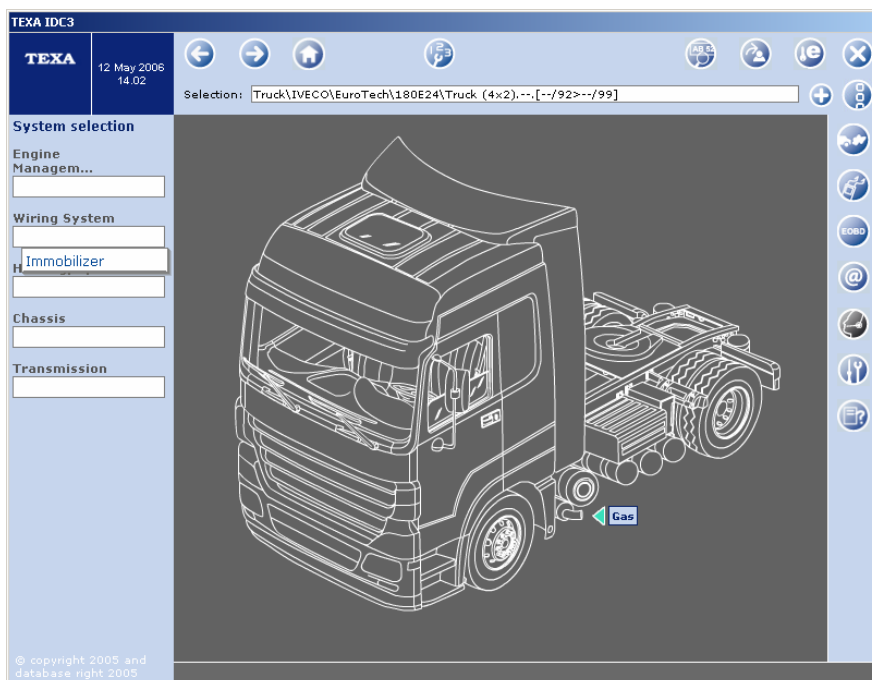


After having selected the trademark, the model, the engine and the vehicle code, IDC3 shows a series of general electrical, mechanical and maintenance information. The availability of said information is highlighted by the display of

specific selection icons appearing on the vehicle silhouette and on the areas of command which form the frame work.



As the selection proceeds in detail, information bulletins or specific cards for a given specific level of selection are available.



At this point the choice can proceed or stop as per the kind of test to be performed. If the motor mechanic wants, for example, to proceed with the emission analysis (e.g. emission conform vehicle -blue certificate-), he will click on the icon on the back side of the car (under GAS).

If, on the contrary, the test has to involve an electronic system, he proceeds in particular with the selection of the specific electronic system chosen from six types, given below:

- Engine management
- Bodywork (comfort)
- Electric System
- Heating/ Air conditioning
- Chassis (driving help)
- Transmission

The subdivision in systems brings in groups different electronic systems, as per their function. In detail the six previously listed families are comprised of:

ENGINE MANAGEMENT	IGNITION GASOLINE INJECTION DIESEL INJECTION GAS INJECTION INJECTION 2 INJECTION 3 DIESEL PUMP ENGINE ELECTRICAL	ELECTRICAL CARBURETOR ENGINE COOLING SPEED REGULATION ADDITIONAL HEATING ENGINE GAS OIL ADDITIVE CHECK GEAR MANAGEMENT
BODYWORK	ANTITHEFT DEVICE SOS CALL CENTRALIZED LOCK SEAT REGULATION PASSENGER SEAT REGULATION DRIVE SIDE REAR SEAT REGULATION MIRRORS SEATS REGULATION ELECTRIC ROOF ROOF ELECTRONIC CENTRAL DRIVE DOOR JUNCTION PASSENGER DOOR JUNCTION RIGHT REAR DOOR JUNCTION LEFT REAR DOOR JUNCTION RIGHT SLIDING DOOR LEFT SLIDING DOOR	COMFORT SYSTEM DRIVE SIDE FOOTBOARD PASSENGER SIDE FOOTBOARD SPOILER REGULATION ADDITIONAL RESERVOIR FUEL PRESENT SYSTEMS SEARCH DISTANCE CONTROL AIRBAG NETWORK SYSTEMS FRONT FRAME COMPUTER BODY COMPUTER REAR FRAME COMPUTER MAINTENANCE SERVICE FRONT ELECTRIC ROOF CENTRAL ELECTRIC ROOF REAR ELECTRIC ROOF
WIRING SYSTEM	CAR RADIO SOUND SYSTEM DATA TRANSMISSION CONNECTION DATA TRANSMISSION ENTERTAINMENT TELEPHONE INSIDE LIGHTING AUDIO CONTROL VOICE CONTROL MULTIFUNCTION DISPLAY FLYING ELECTRONIC TV TUNER INDICATION AND COMMAND UNIT INDICATION AND COMMAND UNIT REAR AIUTOPARKING NAVIGATION SYSTEM RAIN SENSOR	LIGHTS SENSOR CROON TACHIGRAPH BATTERY START UP BATTERY RECHARGE CODIFIED ANTI START UP INSTRUMENTATION PANEL AUTOMATIC LIGHTS SWITCH LEFT LIGHT MODULATION RIGHT LIGHT MODULATION LIGHTS REGULATION ELECTRIC START UP NETWORK ALIGNMENT VEHICLE DATA INTERFACE CD MULTI READER DEVIANT DRIVE

HEATING AIR CONDITIONING	AIR CONDITIONING AUXILIARY HEATING	SEATS HEATING REAR AIR CONDITIONING
CHASSIS	BRAKE SYSTEM STEERING WHEELS POWER STEERING SUSPENSIONS BRAKE FORCE AMPLIFIER BRAKE FORCE SUPPORT SENSOR TURN ANGLE TIRE PRESSURE	HAND BRAKE KNOT LEVEL REGULATION STEERING LOCK KEYLESS SYSTEM WINDSHIELD WIPER CENTRAL OVERTURNING PROTECTION SYSTEM
TRANSMISSION	AUTOMATIC GEAR ELECTRONIC CLUTCH FOUR WHEEL DRIVE TRACTION CHECK	TRAILER CENTRAL TRAILER PROTECTION CENTRAL GEAR SELECTOR LEVER GEAR AUTOMATIC CLUTCH

3 AUTODIAGNOSIS

The AUTODIAGNOSIS program provides connection of a diagnosis TEXA instrument or interface, with different control units (ECU) mounted on the vehicle. These units have different features as per the trademark or as per the electronic system they govern, but from the operator's point of view, the use of the program stays identical. The available functions and the operational procedures that each electronic system proposes are not defined by TEXA but by the unit and vehicle manufacturer.

For the IDC3 operational environment and in particular for the autodiagnosis program utilization, the vehicle connection mode is the one defined in the initial system operations configuration. The software installed on Axone 3 Mobile or on a normal PC, uses without distinction the different modes of connection to the vehicle. In the two following examples the different connection modes, obtained through the foreseen possible interfaces, are shown.



In the example it is highlighted that, it is possible to use the internal and direct connection module of the vehicle, or the Navigator Mobile, Navigator Wireless and Tribox Mobile interfaces, for the Axone Mobile 3 instrument. While for a normal PC, only the connections through the Navigator Mobile, Navigator Wireless and Tribox interfaces are provided and not the direct connection with the module.

3.1 Precautionary and Utilization Responsibility

Given the importance of some functions and resources of the auto diagnosis program, their use will be possible only if, during the first start up of the AUTODIAGNOSIS program, or in case of a new start up following the update of a new version, the terms governing the use of a tool are accepted in a relative way, especially as far as the REGULATIONS functions are concerned. After having read and approved the following rules and responsibilities, the program proceeds with the activation of the functions which is the object of the declaration. In case of NON acceptance, the program goes on functioning in every part except for the functions which are the object of declaration.

**IMPORTANT: READ CAREFULLY. THE FOLLOWING TEXT
CONTAINS INFORMATION REGARDING PREVIOUS VERSIONS**

THE SELECTED SOFTWARE PROGRAM WILL CONTINUE ONLY AFTER THIS TEXT HAS BEEN READ AND THE DECLARATION OF THE CHOICE THAT IT SPECIFIES HAS BEEN EFFECTED BY THE OPERATOR TECHNICIAN WHO WILL USE THIS PROGRAM:

This general version of program and updates to following versions enable the specific functions, particularly contained in the autodiagnosis program given below and switching-off of lights. These functions provide special operations of programming / configuration / regulation / switching-off of light for fault report that can concern the electronic control systems of the engine, the comfort and the security of the analyzed vehicle.

In particular the functions of programming / configuration / regulation / switching-off of light for fault report can influence and modify the behavior of the vehicle components subject to electronic control, including devices and security systems.

Those who perform these operations of this product using the software program licensed by TEXA S.p.A., must carefully follow all the indications, sequences and phases.

The functions of programming / configuration / regulation provide, for their execution, the reconfirmation by the operator technician. This reconfirmation excludes accidental activations and deliberates the explicit will by the operator technician to proceed with the selected function. Moreover, it is possible that for some special functions, the program asks for the input of a "Special Code" of activation. This code can be obtained by a special request form which also provides a declaration according to which the user takes the responsibility for the use of the special functions of the autodiagnosis program. The document can be requested when participating in courses or in general to the friendly dealer.

In case of replacement or activation of electronic systems which demand for / permit their programming / configuration / regulation or more simply the switching-off of the lights for fault report, these operations must be exclusively performed:

after having read the configuration of the original control unit that has to be replaced

after having identified with security and compared the type of control unit of the device with that selected by the program

after having requested eventual confidential data, with the owner of the vehicle, necessary for particular operations.

In case of control units seriously damaged, from which it is impossible to obtain the above-mentioned configuration references, in case data have been lost by the vehicle owner or in any case if there are doubts about the identification of the control unit and of its correspondence to the ones proposed by the program, the functions of programming / configuration / regulation and switching-off of the lights for fault report must not be performed. These operations, in this case, must be performed only by an authorized center specific for the vehicle brand. Only in the official authorized centers, indeed, it is possible to date back or obtain again in a legal, accurate and secure way the information and data necessary for the appropriate performance of the above-mentioned operations.

TEXA S.p.A. and its Authorized Dealers decline any responsibility for damage to things or persons arising as a result of non compliance to the above-said behavior and improper use of the software and hardware tools made available to the operator technician.

By selecting and pressing the button "I ACCEPT", the operator technician using this product by TEXA S.p.A. so DECLARES:

- * to have read and understood this document;
- * to have understood the implications and limitations about the use of the solutions implemented in the TEXA S.p.A. tool;
- * to free TEXA S.p.A. from any civil and criminal responsibility, taking responsibility on his own for the improper use of this product;
- * to proceed with the reactivation of the lock of the special functions preventing their use in case the tool is given to others for any reason;
- * to take any responsibility concerning the use of software and of the enabled functions, undertaking complete responsibility for their eventual illicit use;
- * to accept and consider as valid for legal purposes the digital registration of its choice.

By selecting and pressing the button "I DO NOT ACCEPT", the operator technician using this product by TEXA S.p.A. so DECLARES:

- * to accept and consider as valid for legal purposes the digital registration of its choice;
- * to have read and understood this document;
- * that he does not want to use the programming, regulation and configuration functions

and therefore to be aware that these functions will be automatically eliminated and it will not be possible to use them, till the next proposal which will take place at next update.

3.2 Enabling the “SPECIAL CODE”

There are some special functions that demand an absolute and detailed knowledge for using them and which, for their security and responsibility reasons are protected by a second-level unblocking code called “SPECIAL CODE”.

This code will be released only after having accepted to take the responsibility, signing a request document for a "SPECIAL CODE" which can be obtained from Texa or from the area retailer. Otherwise, when access is done to one of these specific programming and/or adaptation functions, a message showing the impossibility to proceed due to “non acceptance of terms” will be displayed. This code will have to be inserted in the REGULATIONS ENABLING page, shown in the Service program.

TEXA 17 May 2006 11:04 Auto-diagnosis

Serial number

Special code

ENABLE ADJUSTMENTS

UPD. OBD

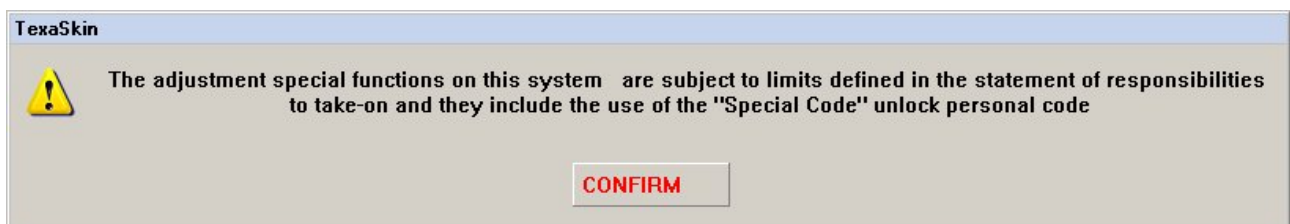
DEVICE CONFIGURATION

CLOSE

ENABLE

Insert Special Code

After having enabled by the Special code, at each selection of a system equipped with those special regulation functions, a warning message will be displayed:



3.3 Fast Autodiagnosis

The fast autodiagnosis is used for serial communication protocols that can transmit in real time data, read and processed by the electronic control unit (ECU) with which the communication is done. The following functions are normally available:

- Engineering parameters
- Errors
- Status
- Start-ups
- Configurations
- Regulations
- Control unit data

3.4 Slow Autodiagnosis

The autodiagnosis systems using this function do not provide for all the data that can be detected by the previously analyzed “fast autodiagnosis” system. Particularly the “Engineering parameters” and “Status” functions are not supported and, in any case it is possible to proceed to the error reading, start-ups and to regulations. The communication takes place in extended timeframe and sometimes demands manual operations.

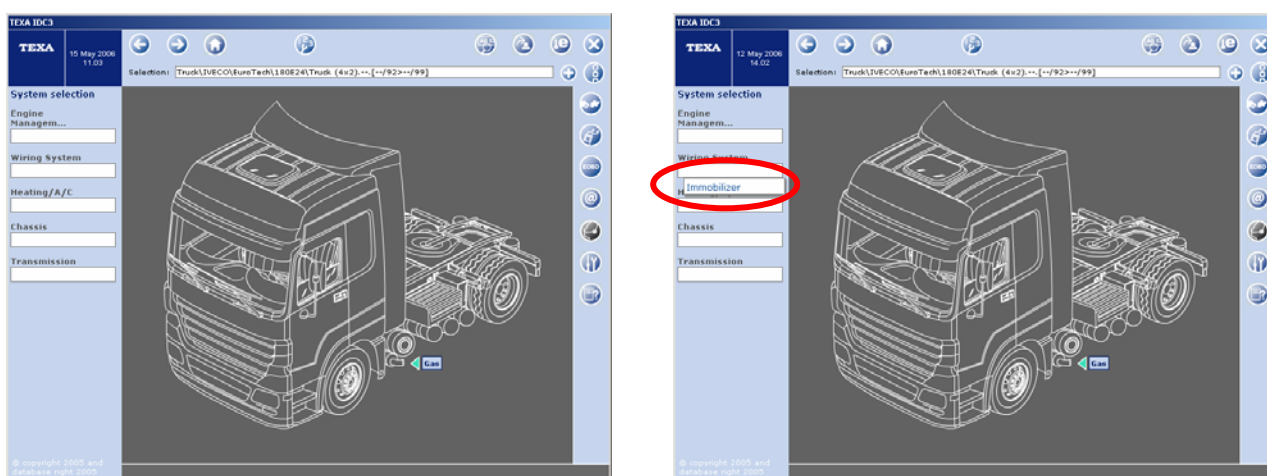
PERFORMING A TEST



In the case of communication by the TriBox tool, the autodiagnosis software can be closed before supplying it.

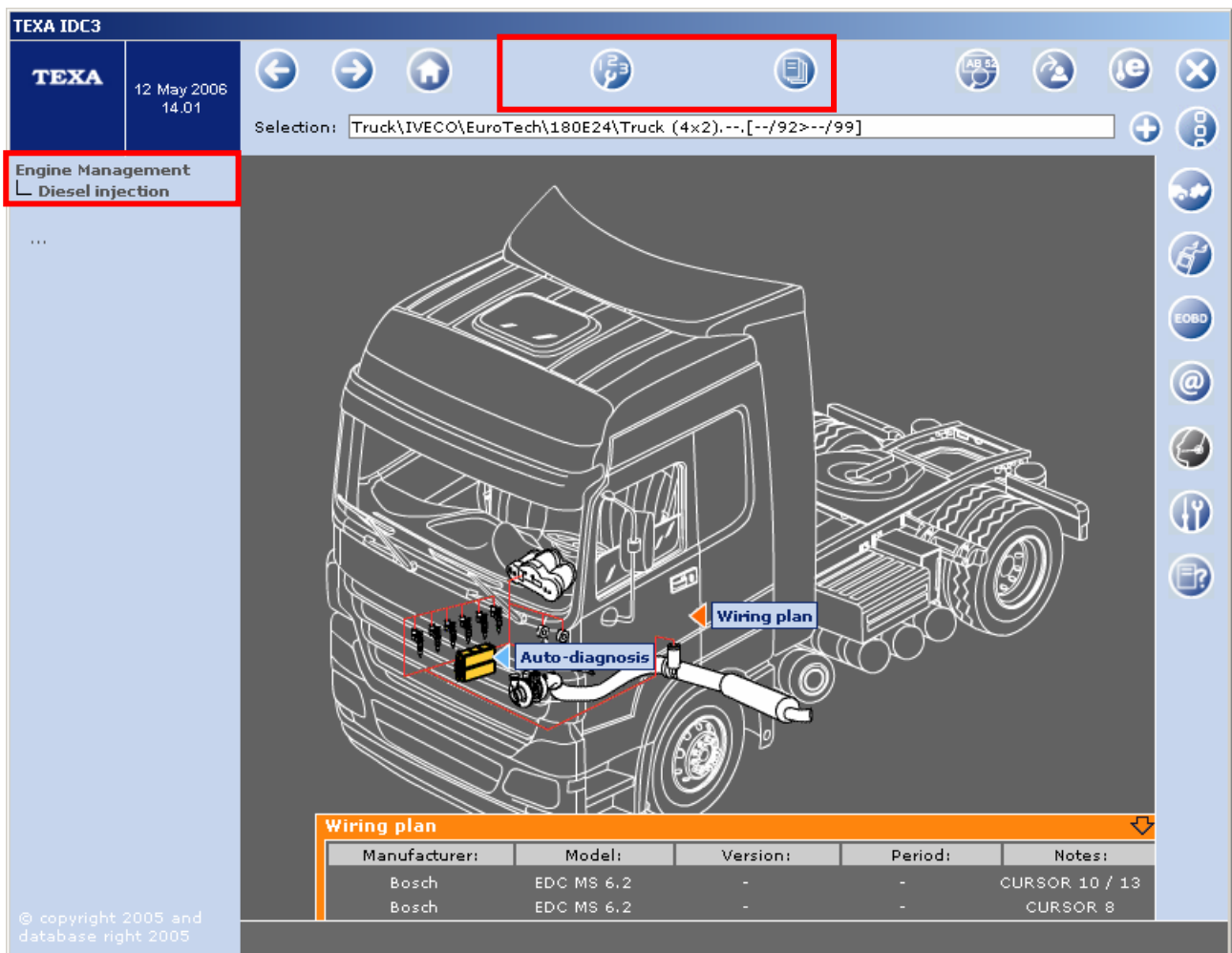
3.5 Selection and Connection

After having selected the brand, the model, the drive type, the equipment type and the version of the vehicle to be checked, start up the autodiagnosis program by directly clicking on the displayed icon in the car



and particularly on that related to the control unit which is to be checked.

An example of **Gasoline Injection** equipment selection follows.



A series of information will be displayed such as:

- the image of the diagnostic grasping
- the type of connection to be performed
- the type of connector to be used
- the need to connect to a power source such as the vehicle battery. The lighter can be used only in case of difficulty in connecting to the battery, due to which some vehicle models supply the lighter only with the key in the running position.

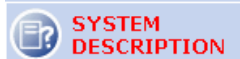
The indications in place of the diagnostic grasping can be provided for under the form of a short film. Alternatively a highlighted vehicle image is available by colored ball.



In this start-up page there are two particular resources:

1. equipment card button
2. help button (help)
3. the selection box for the remote autodiagnosis via GPRS

(1) Equipment Card Button



This allows retrieving a card describing the characteristics of the equipment under trail , giving important information for repairing this equipment:

24/01/2005

Door node unit

General operating descriptions and strategies
The driver's door ECU manages is housed in the driver side door handle and manages electric windows and rear-view mirror controls in general.



Driver's door ECU node unit (seen from above)

Functions and special characteristics
The driver's door ECU manages electric window and rear-view mirror controls in general. The secondary functions are:

- Front puddle light supply and timing Left/Right
- Electric window control
- Rear electric window inhibition
- Rear-view mirror adjustment
- External temperature signal transmission for air conditioner, defroster and display

Warning: The body computer will continue to supply electric window motors for approximately three minutes after the key is turned to OFF. The door locking system remote control receiver is located in the body computer. System operation is disabled in the following cases:

(2) Help Button (help)



It allows retrieval (when necessary), a data sheet describing the particular functions and resources of the autodiagnosis program which you are about to use.

A set of small navigation icons typically found in software windows, including arrows and a close button.

28/06/2002 CLASSIFICAZIONE INIETTORI

Allo scopo di attenuare il livello di emissioni dei gas di scarico e garantire che questi siano sempre entro i limiti previsti dalle normative di legge, le vetture del gruppo FIAT, ALFA ROMEO e LANCIA alimentate a gasolio e prodotte a partire dal 09/2001 per i modelli JTD con propulsore da 2.4 cc e dal 10/2001 per le vetture con motore JTD da 1.9 cc, sono equipaggiate con iniettori del tipo "classificabili".

La caratteristica di questi iniettori è quella che permette di stabilire la giusta quantità di gasolio da iniettare in base alla loro classe di appartenenza e sono riconoscibili attraverso il numero di identificazione del produttore (*Bosch 0 445 110 119*) riportato sulla parte superiore di ogni iniettore. Nella stessa zona è inoltre riportato il numero che contraddistingue la classe di appartenenza. Questo numero può essere 1, 2 oppure 3 e si trova all'interno di un cerchio.

A close-up photograph of a Bosch fuel injector. The injector is a dark, cylindrical component with a brass-colored nozzle at the bottom. On its side, there is a circular area containing the Bosch logo and the part number "0 445 110 119". Above this, the number "2212" is stamped, followed by "2445" and "38805". The injector is connected to a black plastic fuel rail with a metal hose.

(3) Selection Box for the Remote Autodiagnosis via GPRS

☐ GPRS remote autodiagnosis

It allows activation of the use mode for the autodiagnosis program by remote communication via GPRS. For the use of this function, please refer to the specific use section. The tele-diagnosis mode can only be activated by the use of the TIRBOX interface tool, of the GPRS communication module and from an Internet connection.

Note: Only for Axone 3

Connection Procedures

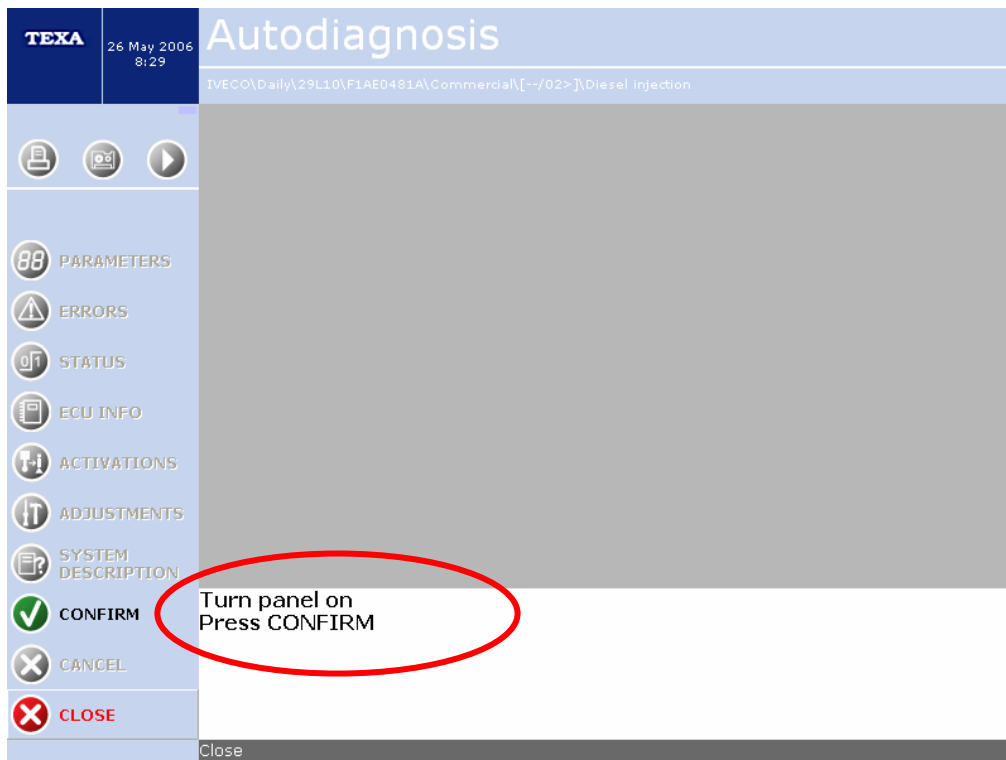
After having performed the necessary connections and the prescribed set-ups, it is possible to start the execution of the test by pressing the button CONFIRM.

The program runs with the initialization of the TEXA interface system towards the vehicle.

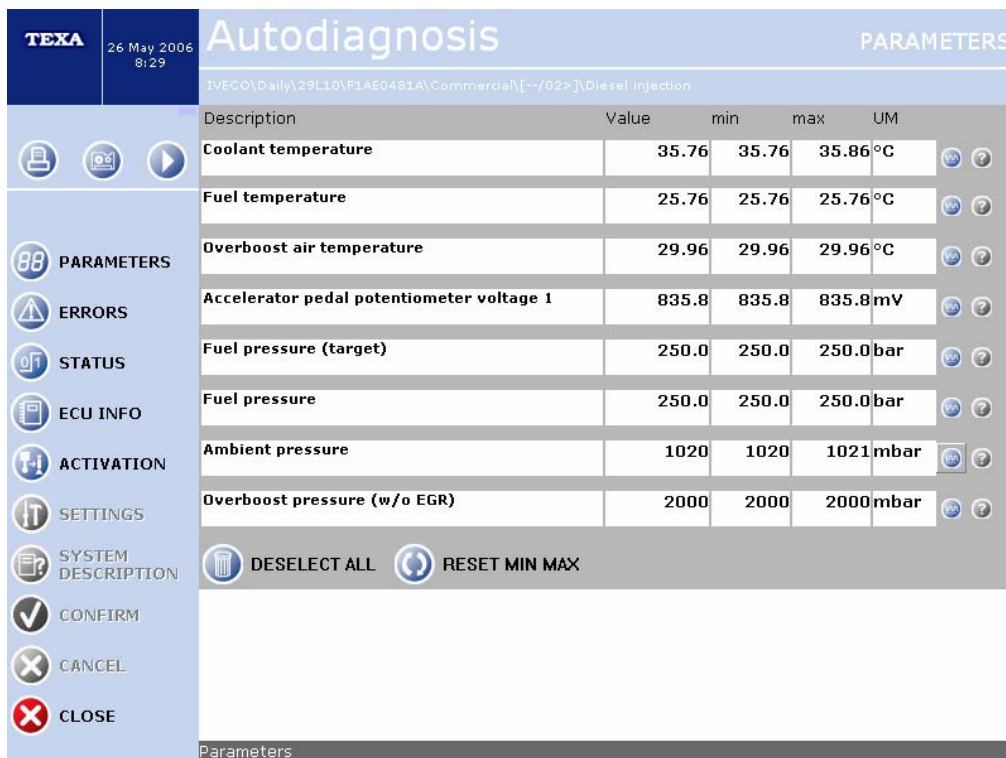
In case of lack of communication, an error message will be displayed as follows, otherwise the program will proceed with the activation of the communication with the vehicle control unit.



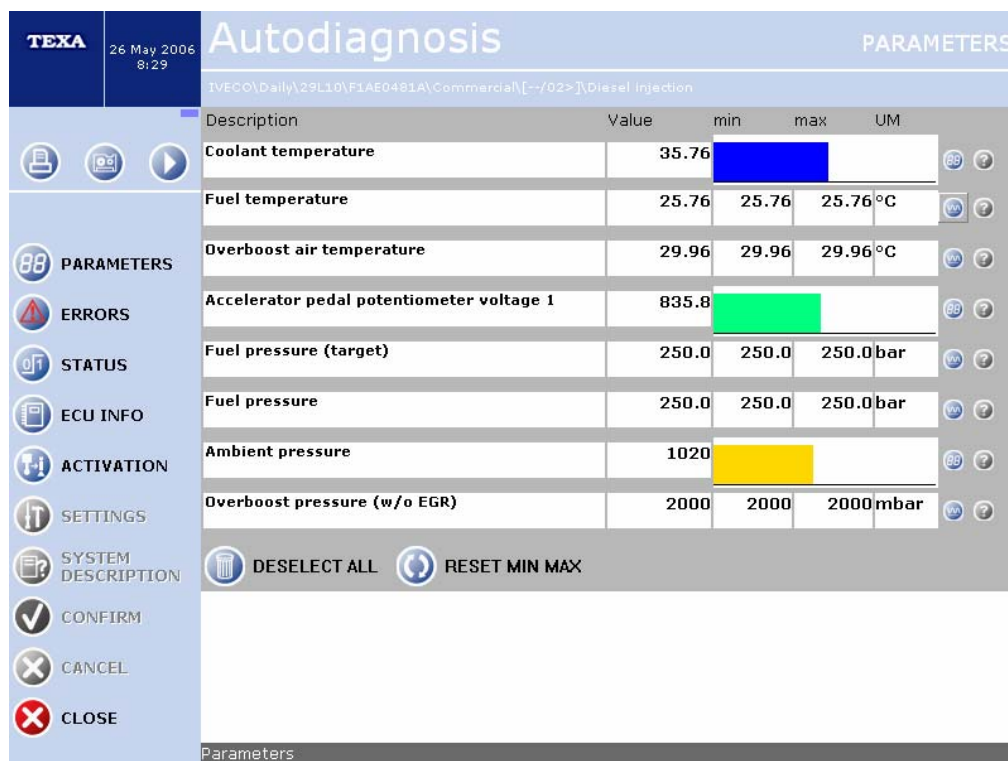
After having completed the initialization of the communication device, the activation phase of the communication with the vehicle control unit is performed. This procedure is required to act on the vehicle ignition key.



The program then proceeds with the start-up of the communication which is confirmed by enabling of the selection buttons (blue icons).



3.6 Engineering Parameters



The control unit provides for the physical parameters detected by sensors and sent to the actuators under the form of numeric values (e.g.: revolutions sensor, injectors, pressure sensors, temperature, idle valves, etc.) updated in real time. This function allows the selection of engineering parameters made available by the system, analyzing the minimum and maximum values and displaying even under the form of a graph (function retrievable by clicking on the right buttons). The graphic function allows verification of different values and their synchronization in time.

By pressing the button “Register” one can start up the storage of the parameters selected at that moment.



The update frequency of the data read by the control unit generally depends on the number of selected data. When a fast display and a rapid storage are requested, it is advisable to reduce the number of selected parameters.

TEXA

26 May 2006
8:29

Autodiagnosis

PARAMETERS

IVECO\Daily\29L10\F1AE0481A\Commercial\--/02>\Diesel injection

Description	Value	min	max	UM
Coolant temperature	35.76	35.76	35.86	°C
Fuel temperature	25.76	25.76	25.86	°C
Overboost air temperature	29.96	29.96	29.96	°C
Accelerator	835.8	835.8	835.8	mV
Fuel pressure	250.0	250.0	250.0	bar
Fuel pressure	250.0	250.0	250.0	bar
Ambient pressure	1020	1021	1021	mbar
Overboost pressure (w/o EGR)	2000	2000	2000	mbar

Record length:

30 min

Recording sample:

01.00 s

RECORD

CANCEL

DESELECT ALL

RESET MIN MAX

Adjustment

The registration can be defined in its length and in the reading frequency of values (sampling) depending, on the characteristics of the analyzed control unit, just as we have seen.

TEXA

26 May 2006
8:29

Autodiagnosis

PARAMETERS

IVECO\Daily\29L10\F1AE0481A\Commercial\--/02>\Diesel injection

Description	Value	min	max	UM
Coolant temperature	35.86	35.76	35.86	°C
Fuel temperature	25.76	25.76	25.86	°C
Overboost air temperature	29.96	29.96	29.96	°C
Accelerator	835.8	835.8	835.8	mV
Fuel pressure	250.0	250.0	250.0	bar
Fuel pressure	250.0	250.0	250.0	bar
Ambient pressure	1021	1020	1021	mbar
Overboost pressure (w/o EGR)	2000	2000	2000	mbar

Recording terminated

SAVE

CANCEL

DESELECT ALL

RESET MIN MAX

Adjustment

The test can be associated to a particular client / car number plate by pressing the button “Save”. Afterwards, using the Clients Management Software, this test can be retrieved and displayed.

TEXA - Printer Center

Print

Close

TEXA

Auto-diagnosis Results

File parameters

Dati Officina

Ragione Sociale

Address

Town

Telefono

Post code

Email

Vehicle data

Number plate

Tests Detail

motorization

Silhouette

AA123TG

IVECO

29L10

F1AE0481A

Chassis

Model

Code engine

Period

231232

Daily

Commercial

[--/02>]

Test Results

Date

20060525

Time Begin

17:21

Time End

17:22

Result

Auto-diagnosis values

11.57

0

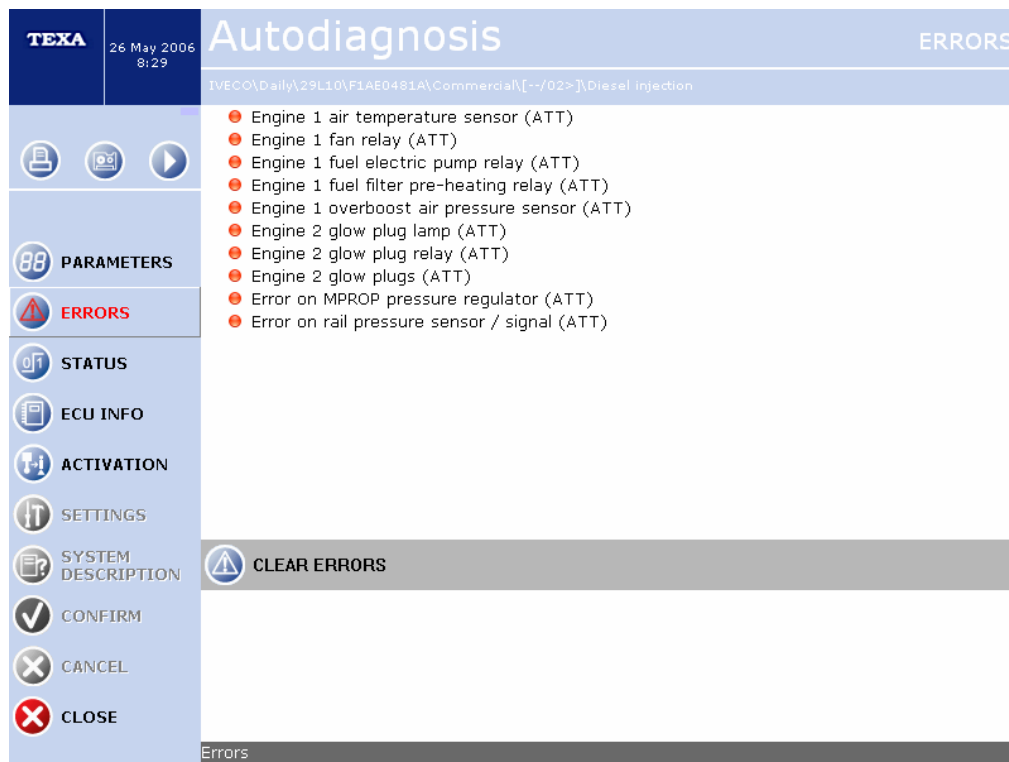
Tensione batteria

11.53 V

Velocità del veicolo

0 km/h

3.7 Errors



The control unit detects possible errors occurred during the engine operation in most of the equipments; it files them in a permanent memory. In this way the user can know if the fault rarely occurs (in some conditions) or if it is always present.

So the errors can be highlighted in two different modes:

- **“ATT” Present Mode:** it displays an error present at the connection, so not stored on the control unit, but present at the moment
- **“MEM” Memory Mode:** it displays an error stored on the control unit, but not present anymore at the moment.

Once the error reported, the program will provide for indications on the type of fault.

At that point the operator will try to rectify the fault to proceed to erase the error from the control unit memory.

If at a subsequent diagnosis the memory cannot contain more errors, it means that the fault has been eliminated.

It is useful to remind that in some control units, the malfunctions of the sensors on the lines connected to the control unit are acquired only in well determined conditions: some with stopped vehicle and only with panel on, others with engine started or with running vehicle or after a certain period of time.

The **STO Function** (Automatic Storage) allows keeping in memory in the Texa tool a certain error which has been erased from the control unit.

According to the error condition, the ball color changes itself on the left of the description item of the error.

3.8 Status

Description	Status
Heated fuel filter relay	OFF
Engine state	Engine off
Glow plug relay	OFF
HVAC compressor relay	OFF
HVAC ON	OFF
Fan relay	OFF
Second speed limiting switch (if fitted)	OFF
Cruise control RESUME	OFF

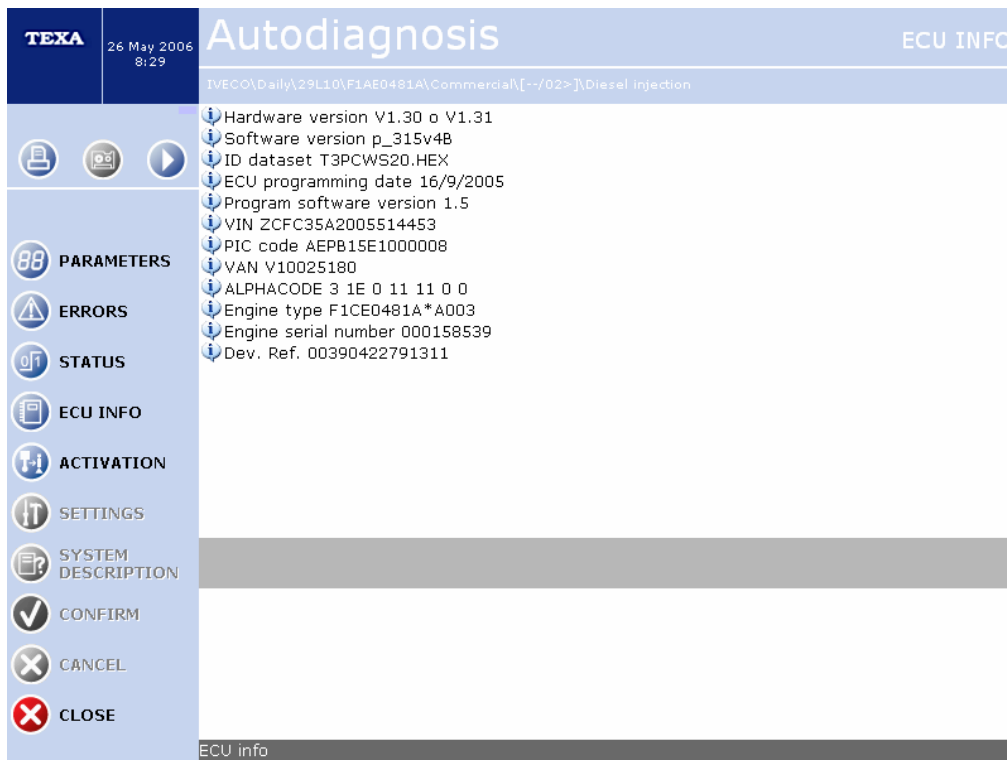
DESELECT ALL RESET GRAPHS

They represent the conditions of some inputs and outputs of the control unit. This information can only have default status and conditions, for most of the time with indications, for example: ON/OFF, e.g.: engine started up / not started up, Lambda probe ON/OFF, etc. The graphic functions allow the synchronized display of the status of the various devices managed by the control unit.



The meaning of the color and of the associated status varies according to analyzed device; please refer to the legend displayed near the device.

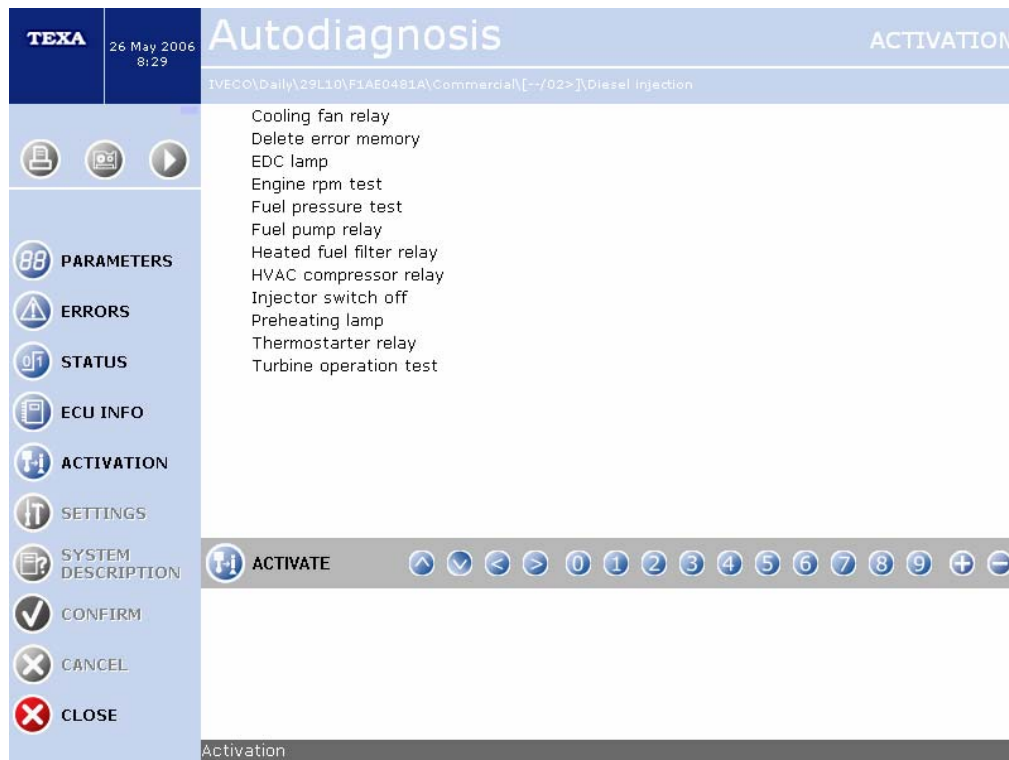
3.9 ECU Information



It displays the information concerning the electronic control unit to allow its accurate identification. It is especially useful when it is necessary to correctly set up a new electronic control unit in case of replacement for breakdown.

It is then possible to proceed with the verification of the control unit settings inserting them in an identical way, in the new control unit.

3.10 Start up

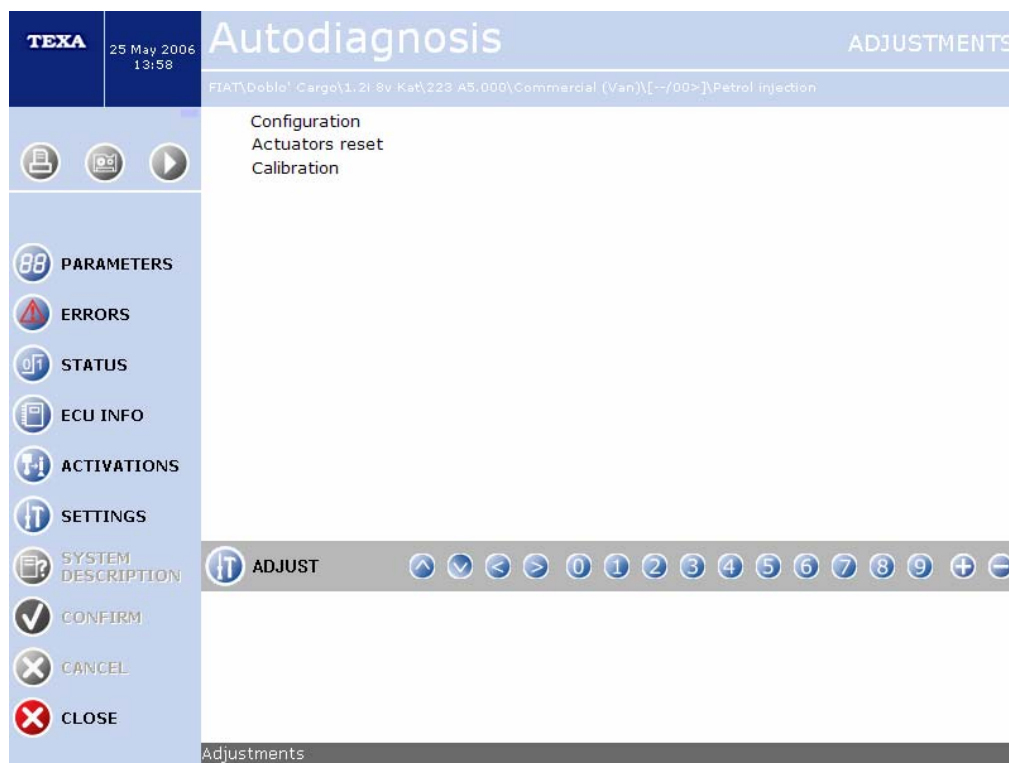


From this page it is possible to check by activation of devices piloted by the control unit (actuators) in order to test their operation.

This procedure allows the verification both of the efficiency of the actuator and of the control unit. The activation methods used by the analyzed electronic system (control unit) can vary from manufacturer to manufacturer.

In some systems, indeed, the test length can be decided by the operator whereas in others the lengths and control sequences are fixed by the program available in the in the control unit.

3.11 Regulations



This window allows the access to regulation functions supported by the analyzed control unit. In some equipments there are regulations (CO, idling...) which can be operated only by a system connected to the diagnostic grasping of the control unit.

The regulation procedures generally comprise of three stages:

- entry in the Regulations function;
- variation of the default parameters;
- storage of the new regulation.

This rule can vary according to the type of regulation or as per the procedure set by the manufacturer.

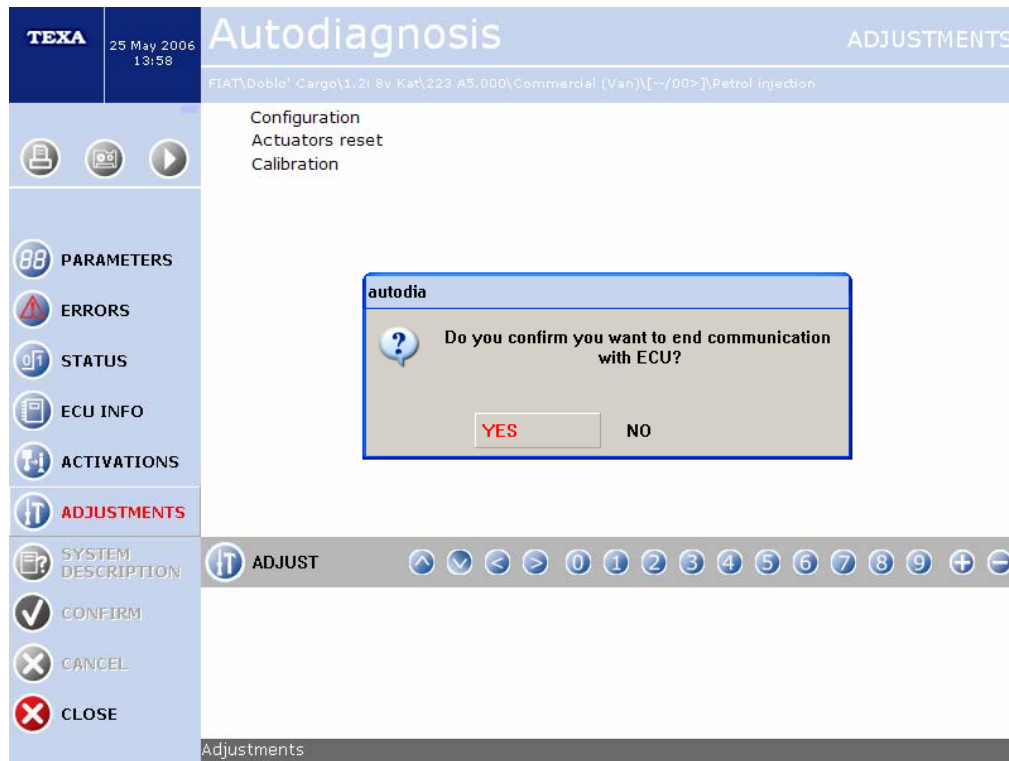
For this reason, when it is necessary, the operational details are described in a special record card retrievable by the Help button present in the main page, as previously described.

Given the particular “attention” with which the regulation and configuration functions must be treated, their use in some cases can be limited to the request of a “Special code”.

In this case the operator will have to provide the code which has been given to him in the request window.

3.12 Delete

Through this button the end of communication with the control unit is requested (after confirmation).

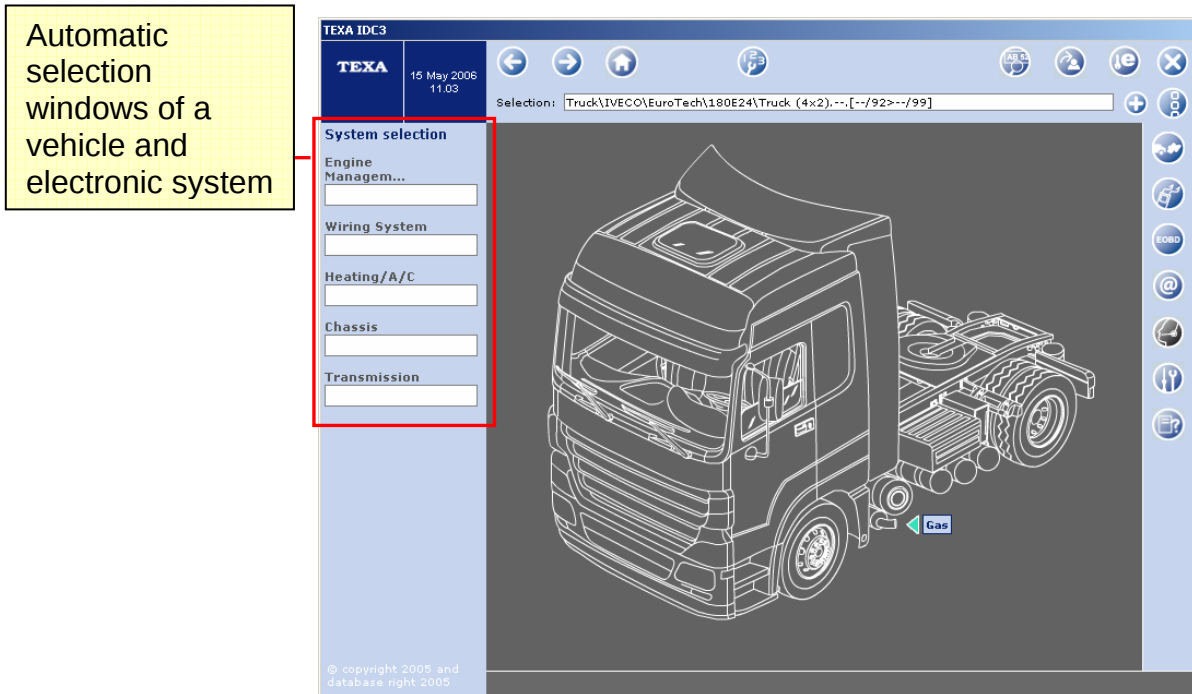


3.13 Printing of Function

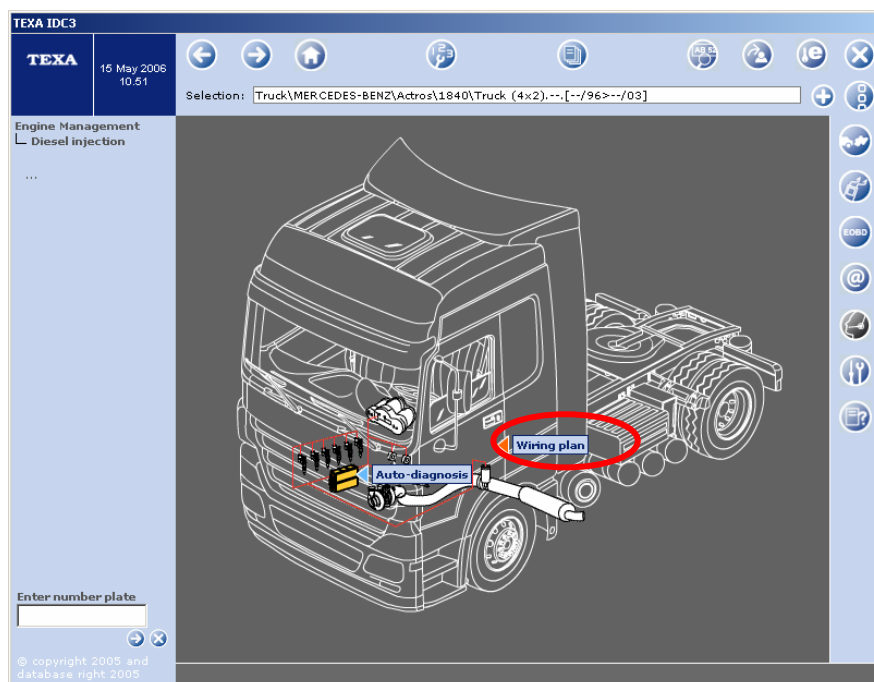
The printing out of function, available in the Parameters, Status and Error windows, allows generating in a first phase of print view and even printing on paper. The parameters, status and errors printed are those detected instantaneously when the printing is done.

4 WIRING DIAGRAM

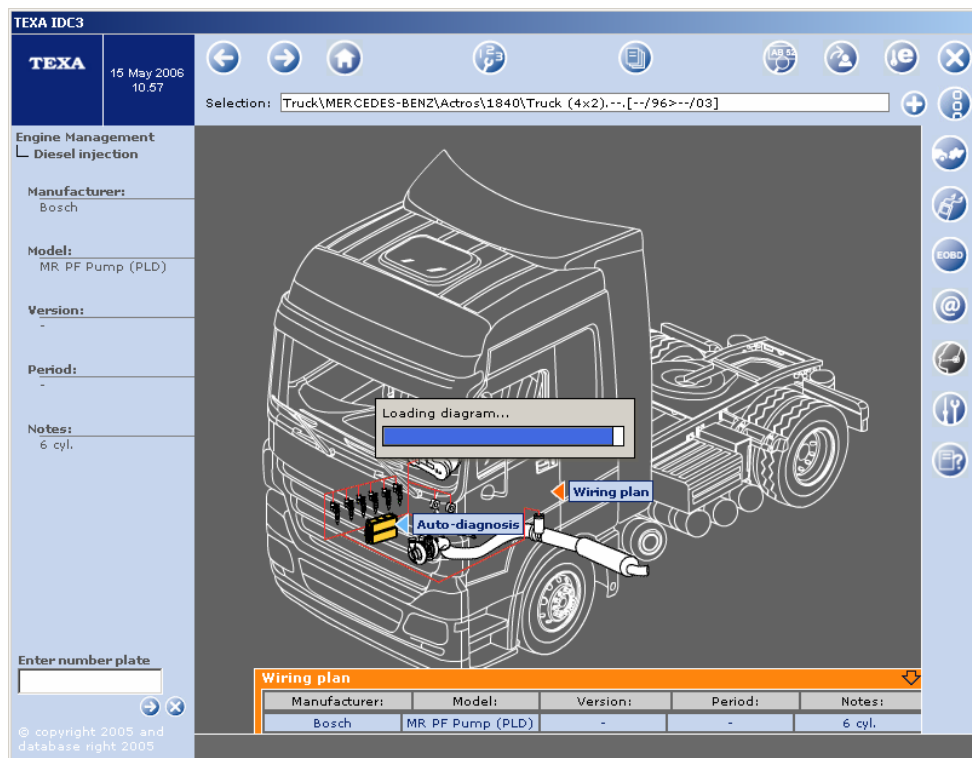
For the electronic systems used on the vehicle, and particularly those provided in autodiagnosis resources, Texa produces the standardized wiring diagrams for every equipment.



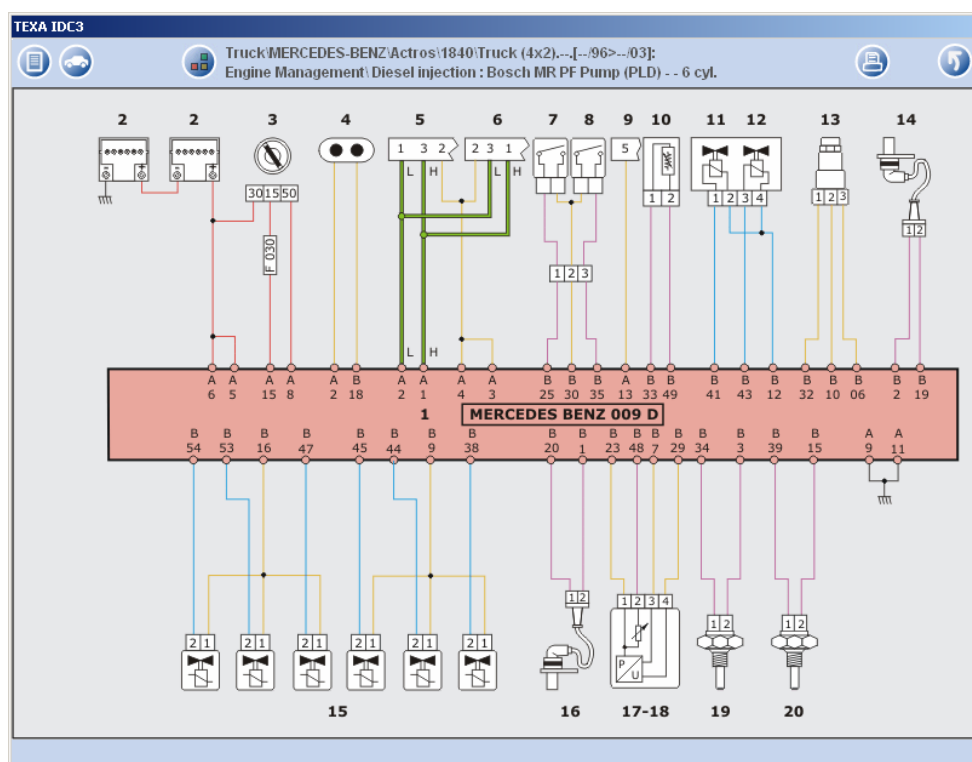
After the selection of the brand, model, drive and electronic system, the page proposes the icons to access both to the diagram and to the autodiagnosis program.



Clicking on the icon “Wiring plan” and selecting the desired electronic system,



a full display page appears, with the diagram of the selected equipment:

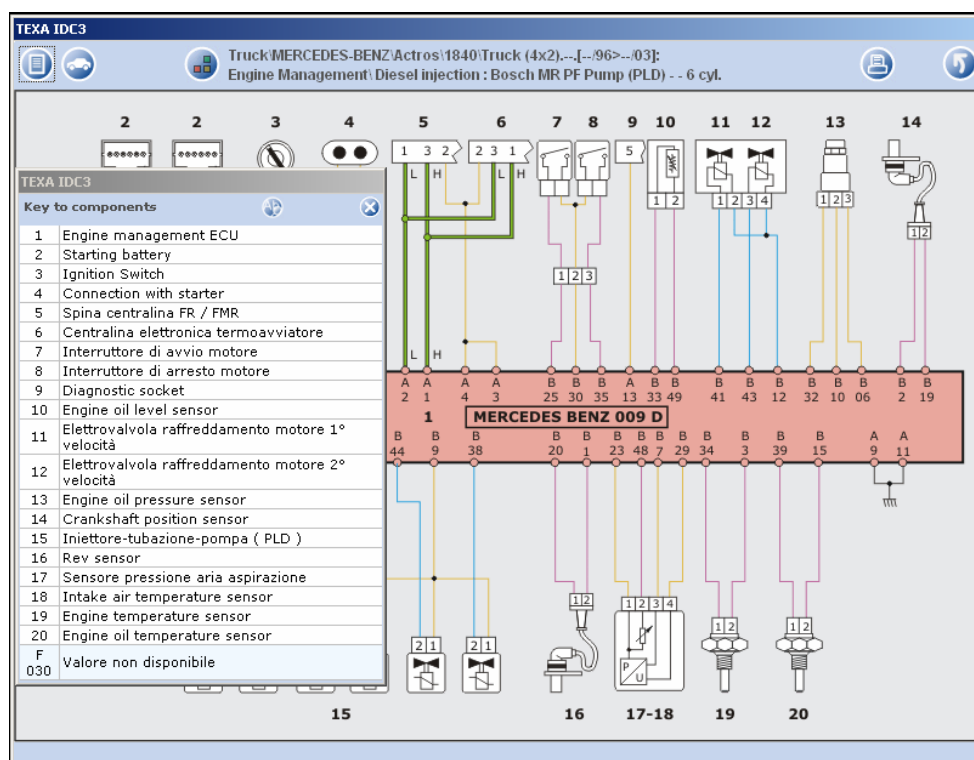


Function and Icons:

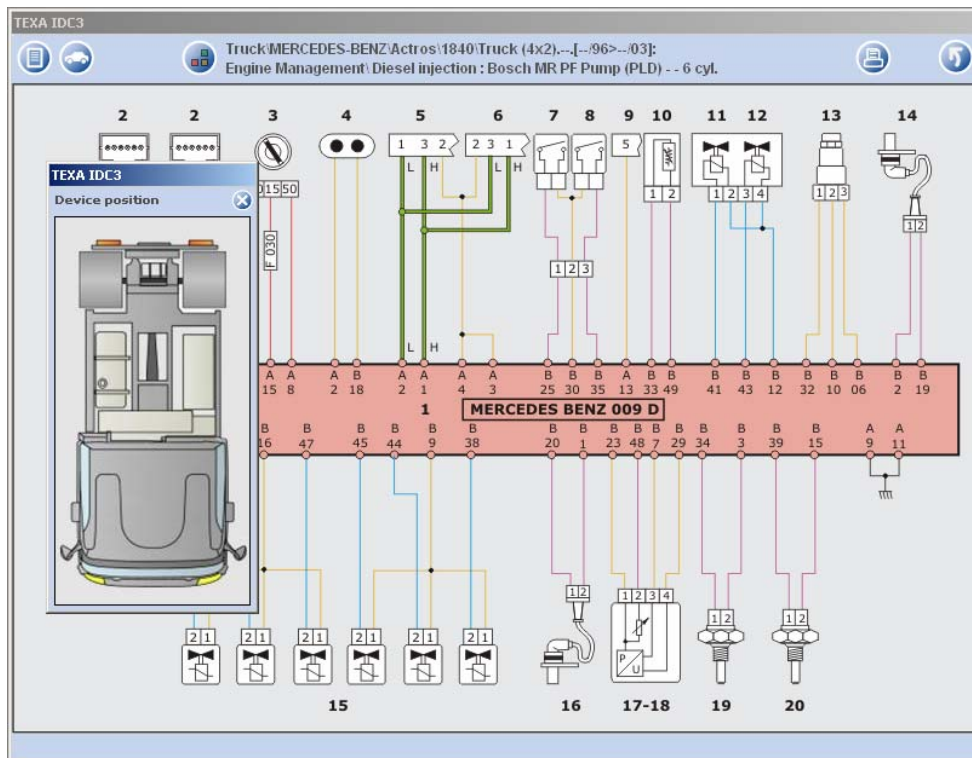
On the upper left side according to the complexity of the diagram retrieved there appears a series of icons, as described below:

Icon	Associated Function	Notes
	Retrieves the legend from the diagram	By clicking on the legend item it directly switches to the corresponding component in the diagram
	Location of the device	A red ball moves on the image of the vehicle indicating the position in which the selected device is
	Switches to the previous diagram section	Only for diagrams developing in more than one page
	Switches to the following diagram section	Only for diagrams developing in more than one page
	Retrieves the legend by the meaning of the colors related to the links	

Legend Components: moving on the elements of the wiring diagram (for example, sensors, actuators...), the detail on the legend components is highlighted. Vice versa by clicking on one line of the legend components, the component in the wiring diagram is displayed.

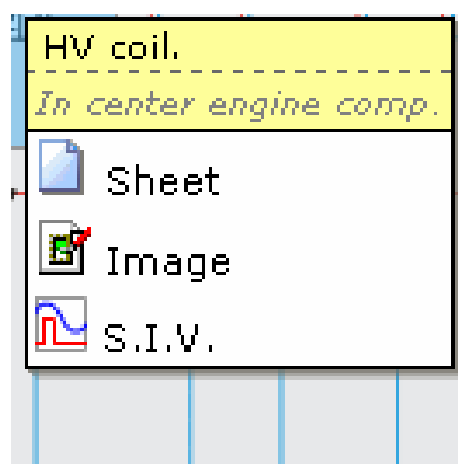


Components Location: the location is highlighted by a red ball appearing when moving on the wiring diagram components.

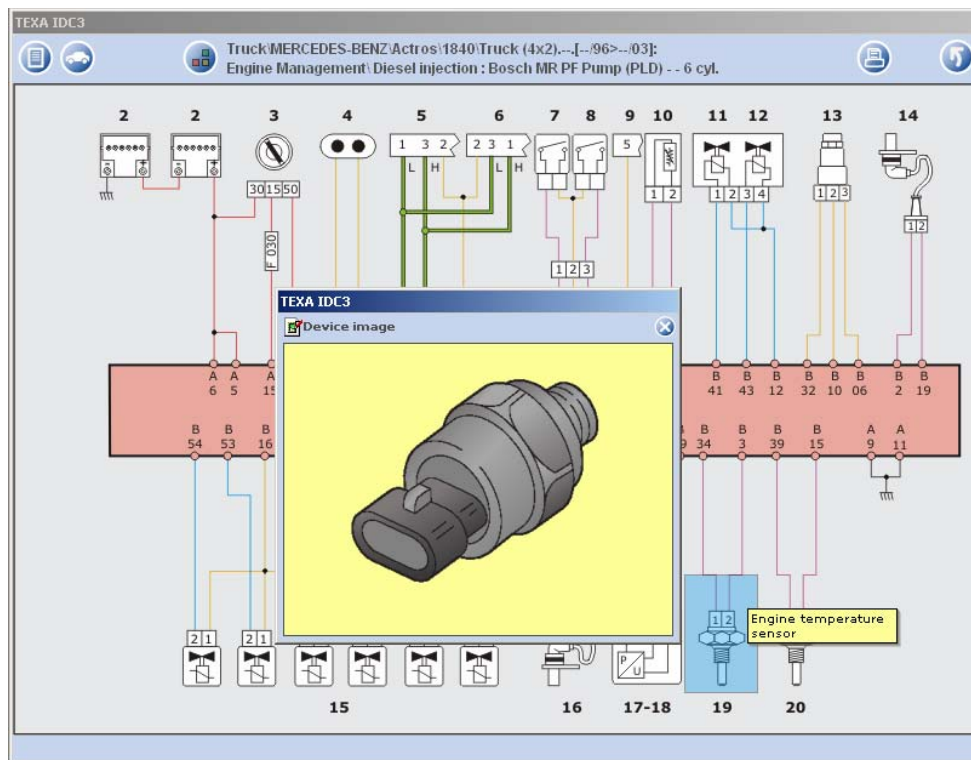


By clicking twice on the component, a little window showing the following main items is opened:

- Sheet
- Image
- S.I.V. (System Information Viewer)

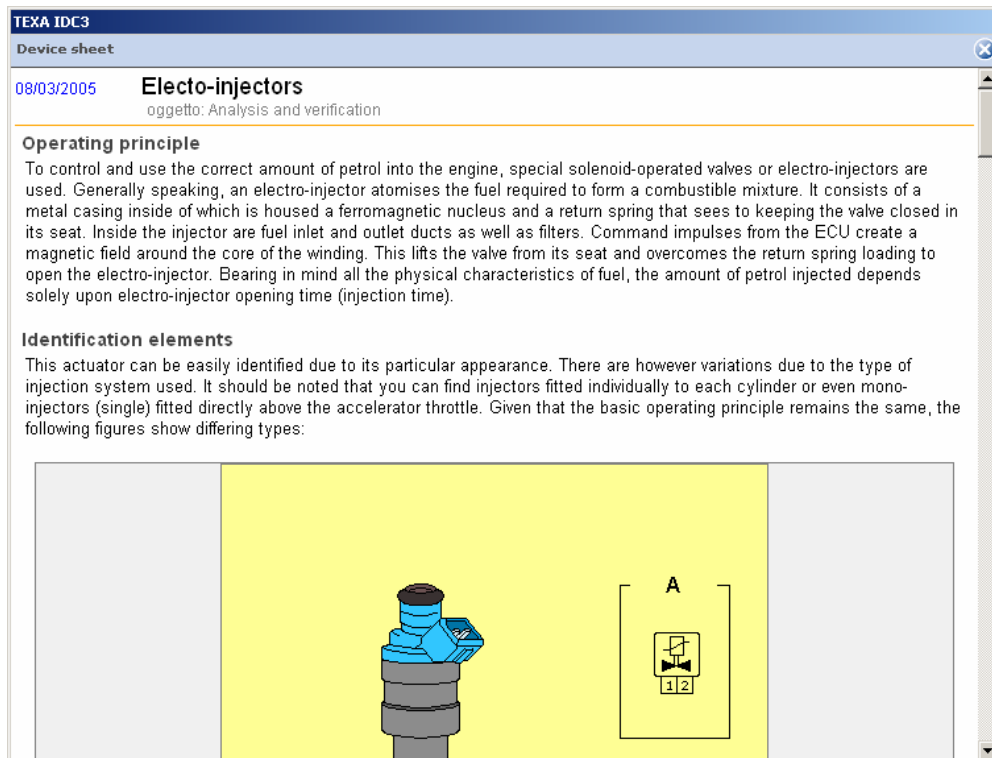


On clicking the “image”, it shows if a picture or a drawing of the selected component is available.



Clicking on “card” a document about the selected device is retrieved. It provides a series of important information, which generally can be about:

- device operation principle
- identification elements
- electric operation characteristics
- electric tests laid down
- test connection
- sample oscillogram
- data for the autodiagnosis (reference values).



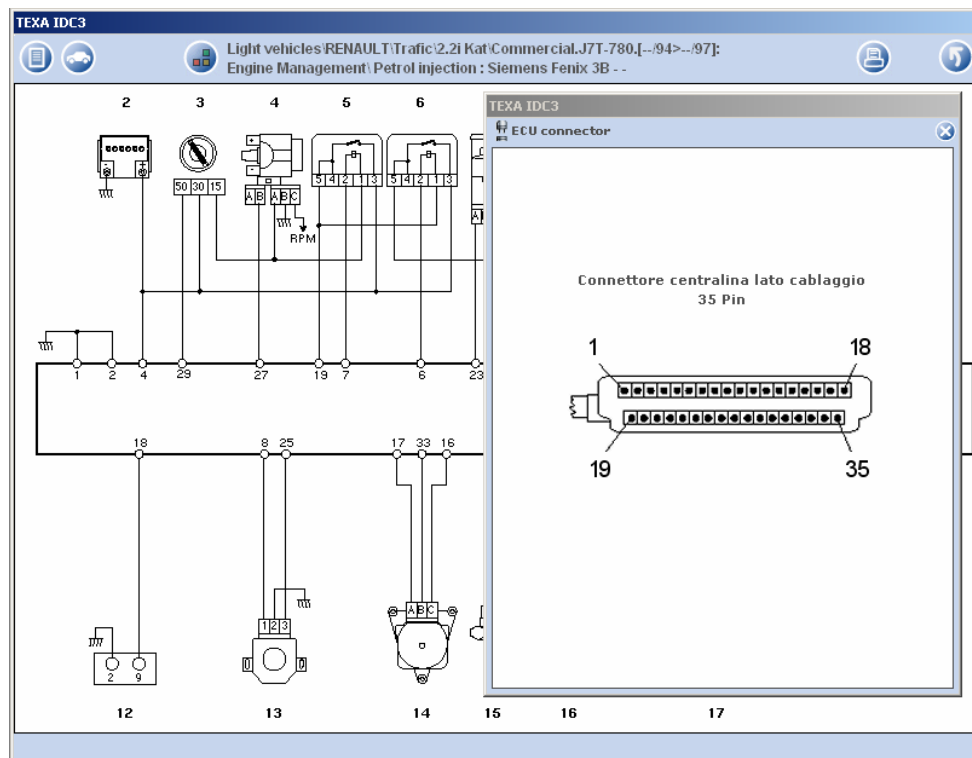
The remote card provides a very important resource, related to the reference values, which are provided by a dynamic chart proposing a series of parameters connected between them and for which it is possible to detect dozens of values by simply scrolling on the data by the “navigation” buttons put on the chart itself.



Buttons for the use of the dynamic graph of the reference values:

- A. Data Zoom.** It is used to see all the available data in a single display;
- B. Scroll Up and Down on Data.** In case of minimum zoom it allows to scroll up and down on the available data;
- C. Cursor.** It allows putting the cursor in a certain position of the graph to verify the available data on a given operating situation.

Besides the information related to the components, useful information related to the control unit is available, for example, the image of the connector for the identification of the output pins.

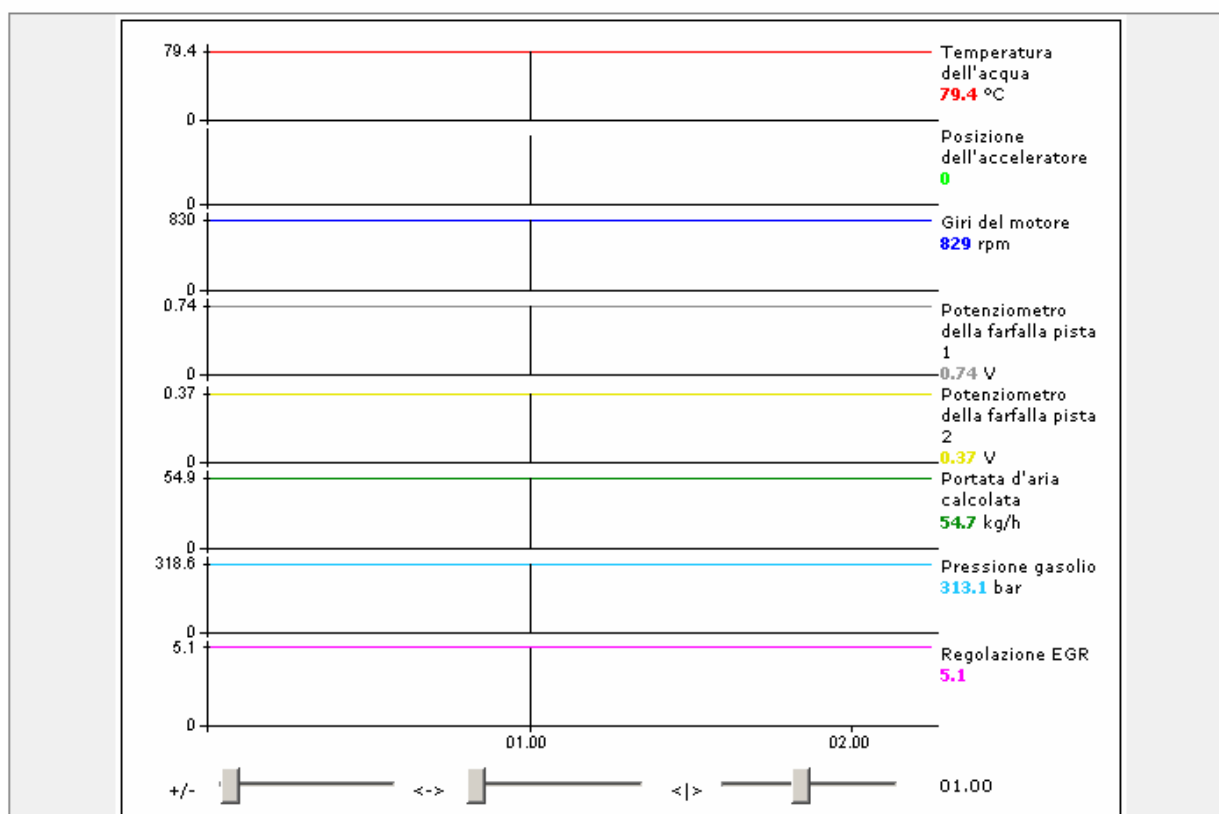


Always from the symbol of the control unit it is possible to retrieve, a page concerning the reference values detected on that system, whenever it is available.



Note: The sample parameters can be retrieved even by the Technical Cards Menu. 

Reference value chart



The dynamic chart shown here allows reference values for the devices used by this ECU to be checked. The following information is useful relating to methods for acquiring these readings and how to best use the information. It is important to remember that when comparing these readings with test results, they should be **similar** but not **the same**. This is for a number of reasons, for example linked to: environmental conditions, engine ageing, variations in the ECU etc. The reference values listed on the chart do not show "Target Value" parameters. In effect in this case, the current value should correspond to the target value.

Initial vehicle conditions

Engine at ambient temperature. Initial temperature values can change due to the ambient temperature when the test data was recorded. In general, these two conditions are met:

- Cold engine. Water temperature less than 35°C.
- All supplementary engine loads are switched off (headlights, air-conditioning, power-steering etc.).

Test methods

In general, the values shown in the following chart were measured on a stationary vehicle. Data acquisition generally began with vehicle start-up. The sample was taken at the speed of 250 m/s. (4 samples per second). There can be other systems where taking samples is slower due to the data processing limitations of the ECU being tested. The following chart shows the time scales and conditions of acquired data:

The remote cards show the values which have been detected by two modes:

- The first mode describes importing data in a non restricted way. The registration and the corresponding graph follow a trend exclusively depending on the operational conditions of that vehicle and which have to be interpreted connecting the data between them.
- The second mode respects on the contrary particular standard detection conditions, which are:

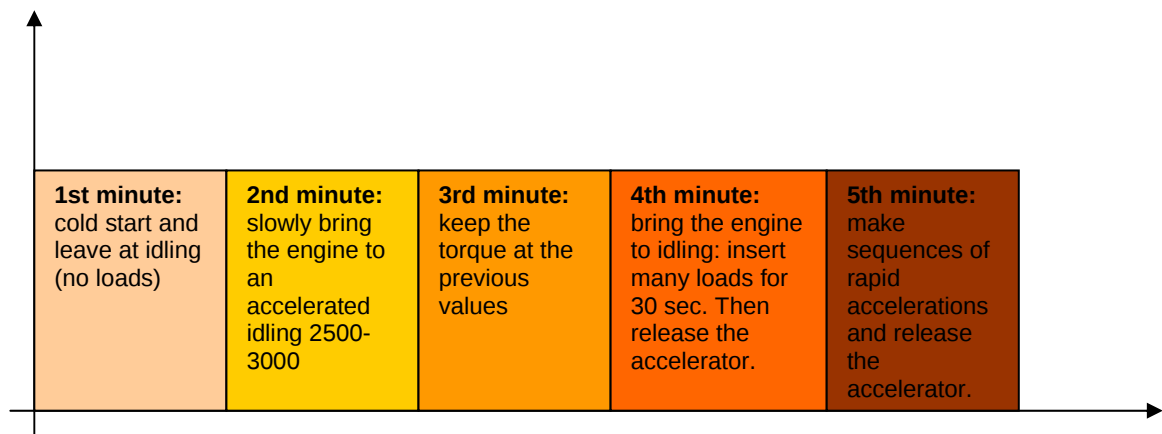
Initial Conditions of the Vehicle:

Cold engine (water temperature less than 30°C).

All the loads are disconnected (lights, air conditioner, power steering, etc).

4.1 Storage Mode

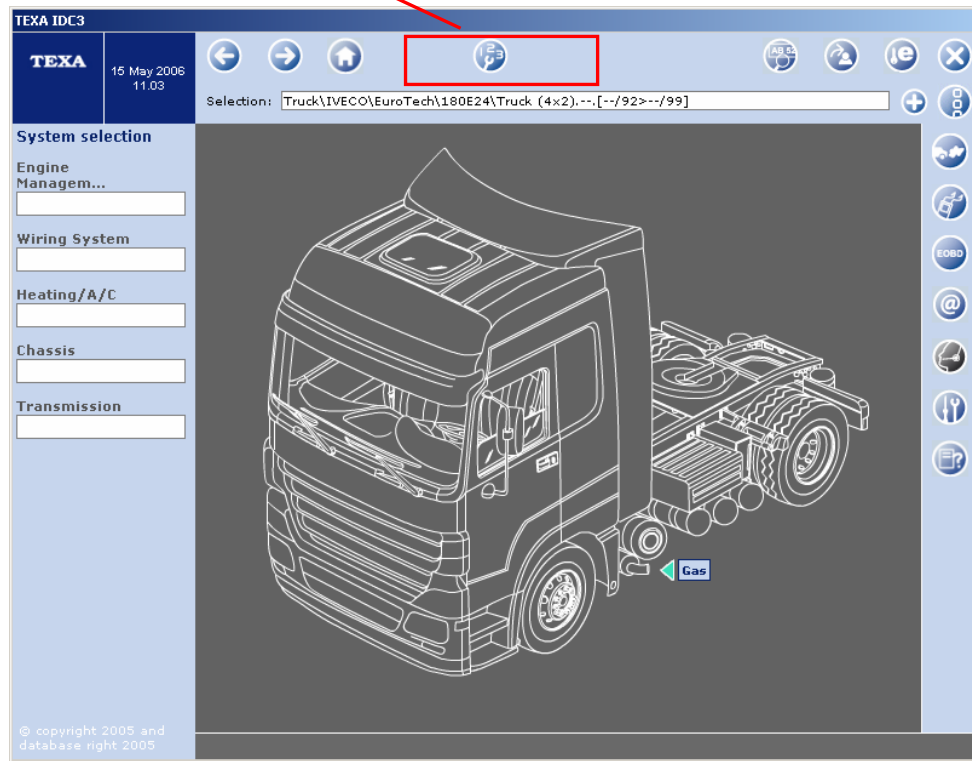
1. Parameter capture at stopped vehicle, during the start phase up to that of idle engine.
2. Parameter capture at stopped vehicle at 2500-3000 constant revolutions / min. (accelerated idling), up to bringing the vehicle to a thermal torque. In this phase accelerate and release the accelerator to create a phase of engine load, even if short. Then quickly release the accelerator to highlight the cut-off and the release phase. Insert all the loads to start the idling regulation.
3. Test drives
4. Data capture with the vehicle by land in third gear a 3000 constant revolutions / min.
5. Switch to the fourth gear with full acceleration up to 3500 revolutions / min.
6. Quickly release the accelerator leaving decelerate up to 1000 revolutions / min. (never touch the accelerator pedal).



So the standard data capture generally develops a sequence which lasts about 5 minutes.

5 MECHANICAL AND MAINTENANCE DATA (AREA 2)

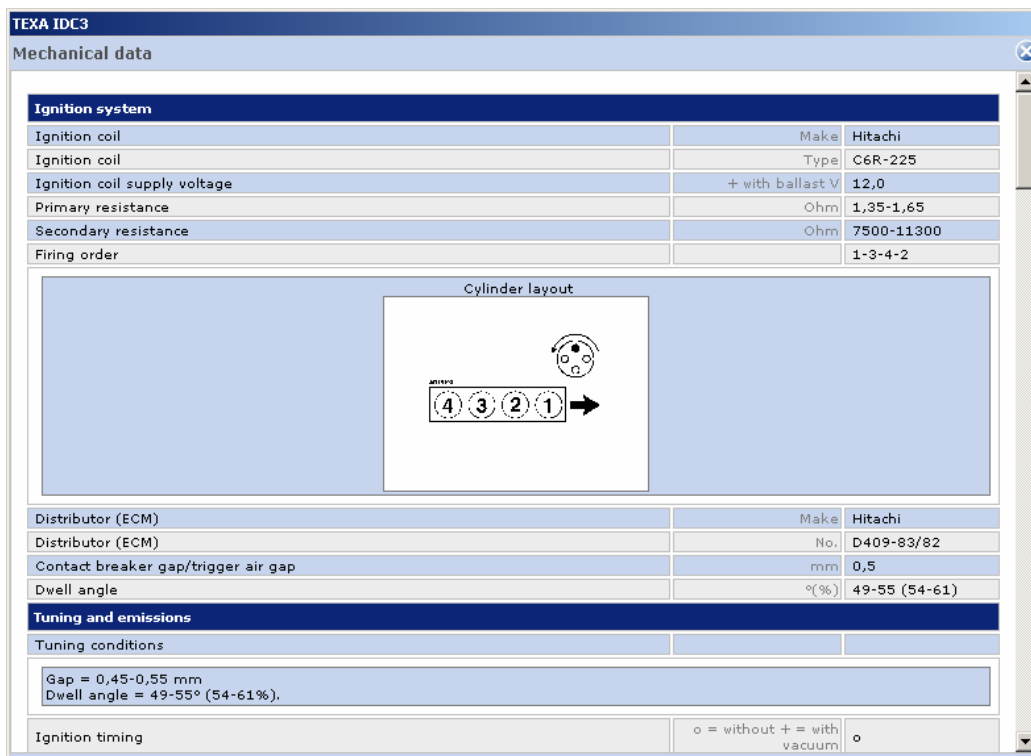
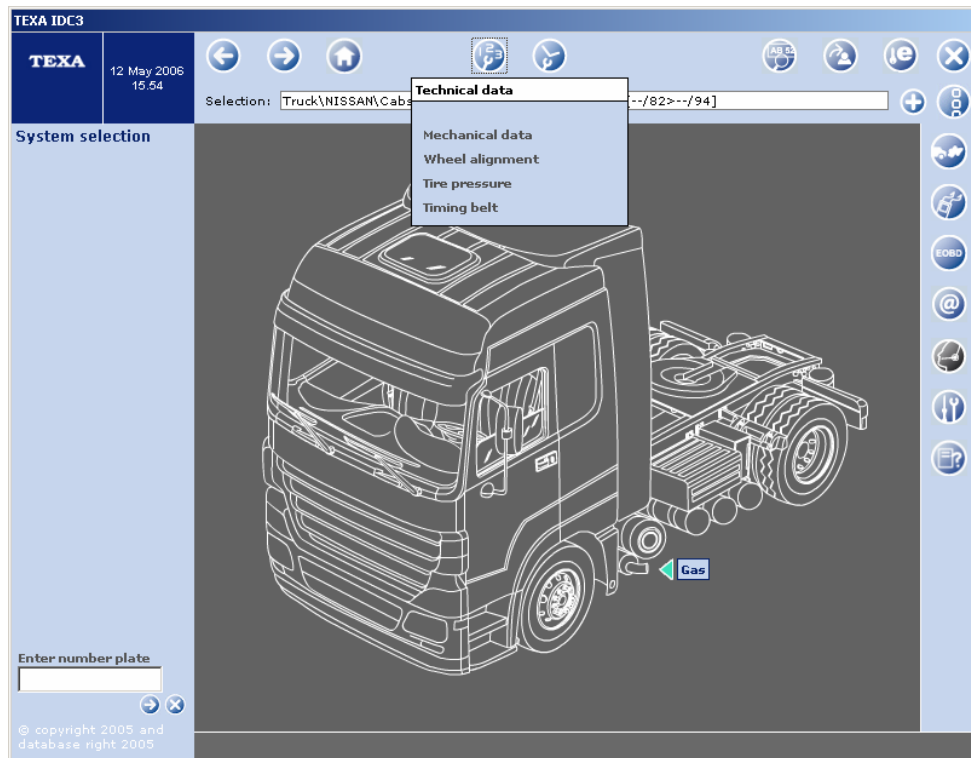
Mechanical Data



The selection area of mechanical data is already available when one reaches the first levels of the selection, in which the brand, model and drive have been selected. At this point, also general information is available for the user, such as:

- additional wiring diagrams of systems not having an autodiagnosis
- technical data of the vehicle
- wheel alignment
- pressures
- air conditioning
- drive belt
- periodical maintenance.

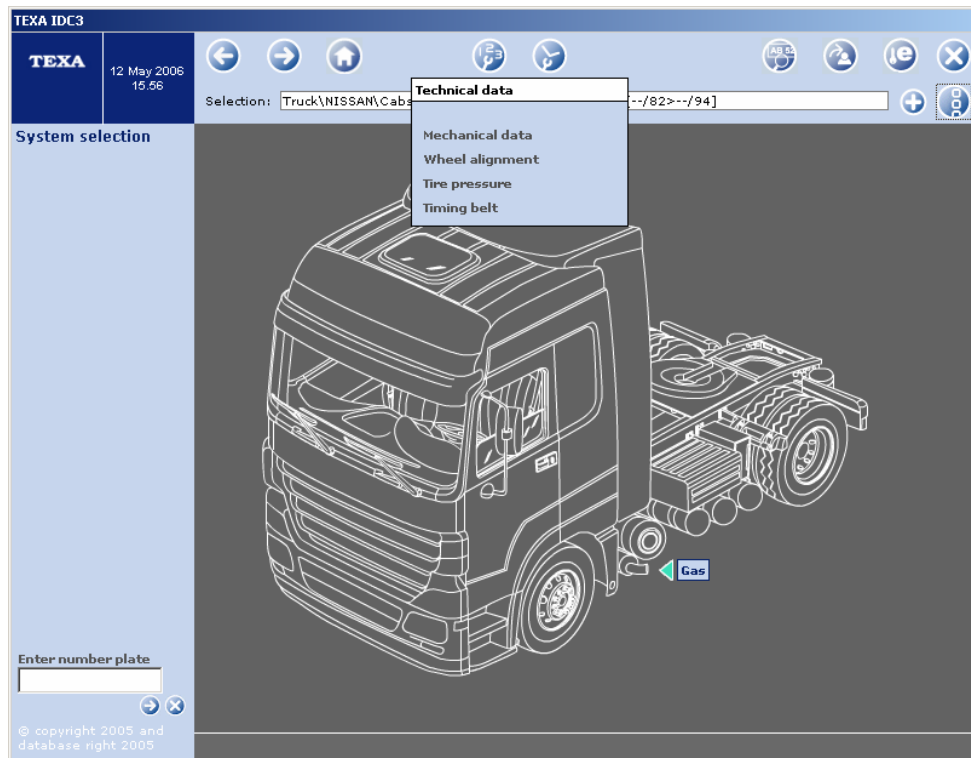
5.1 Vehicle Technical Data



The technical data sheet shows values of mechanical and electrical type, ignition order, exhaust emission values, etc.

5.2 Wheel Alignment

Another item which can be selected on the same menu is the one about regulation data for the wheel alignment.

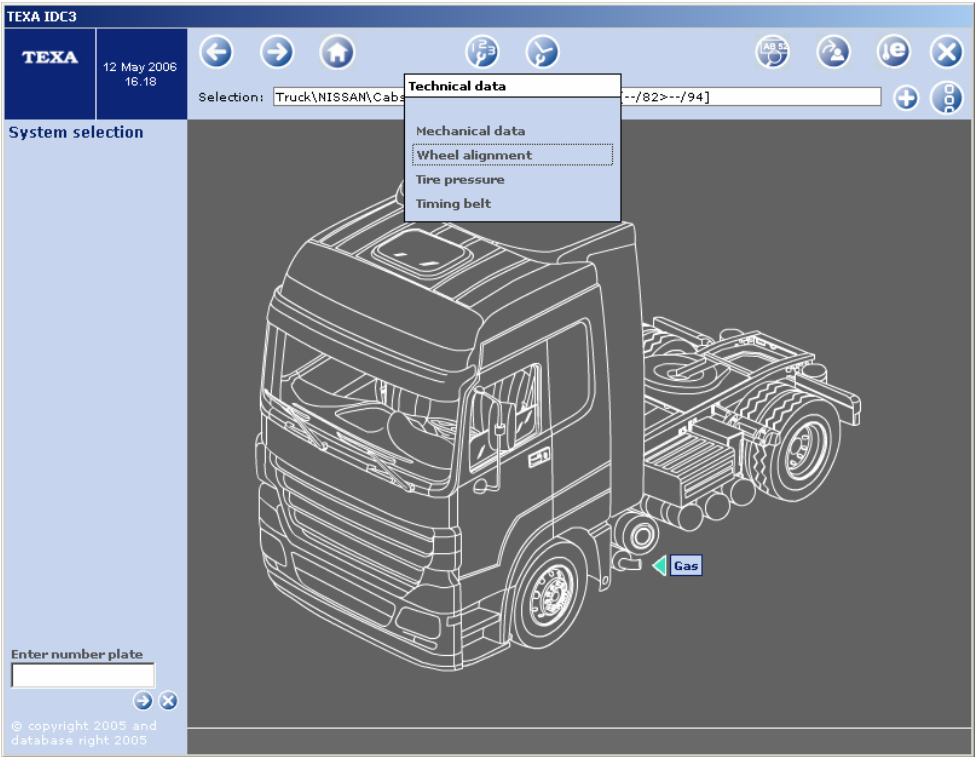


In the sheet the convergence, incidence, tilt, coupling torque values, etc. are listed.

TEXA IDC3		
Wheel alignment		
Dimensions		
Wheelbase	mm	2515
Track - front/rear	mm	1410/1380
Tightening torques		
Tightening torque - steel wheels		118-147 Nm
Trackrod locknut/clamp		25-28 Nm
Checking range - Front wheels		
Load positioning		Unladen
Fuel tank - percentage full	%	100
Toe-in (N = negative, toe-out)	mm	0 - 2
Toe-in	deg	0° - 0°15'
Toe-in	deg-1/100	0 - 0,25
Camber	deg	0°25'N - 0°35'P
Camber	deg-1/100	0,42N - 0,58P
Castor	deg	0°30' - 1°30'
Castor	deg-1/100	0,50 - 1,50
Setting data - Four wheels		
Load positioning		Unladen
Fuel tank - percentage full	%	100
Toe-in (N = negative, toe-out)	mm	1±1
Toe-in	deg	0°8'±8'
Toe-in	deg-1/100	0,13±0,13
Camber	deg	0°5'±30'
Camber	deg-1/100	0,08±0,08
Camber adjustment		Adjustable
Camber adjustment		

5.3 Pressures

The item 'pressures' shows the specific pressure data of the tires.



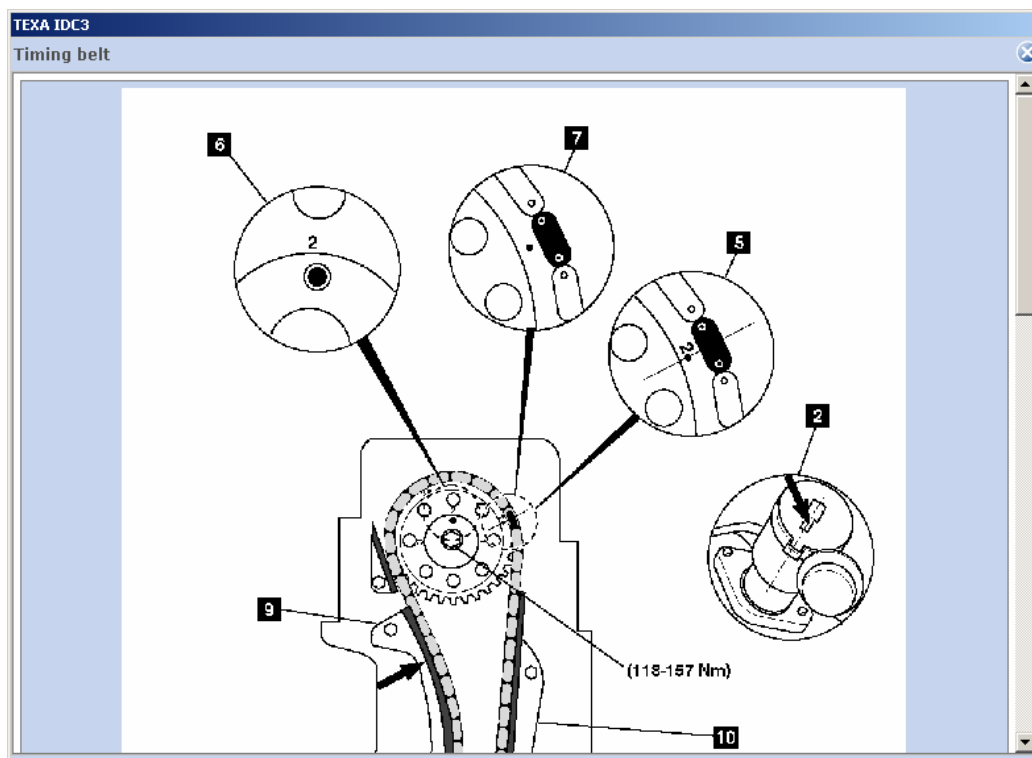
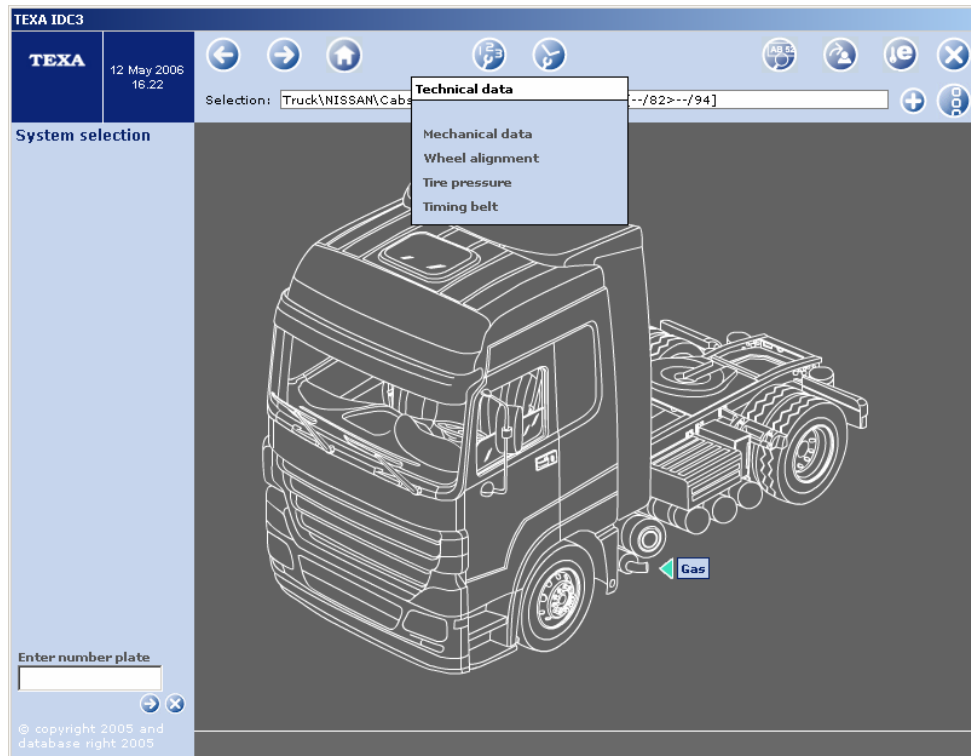
TEXA IDC3

Tire pressure

Rim size	Tyre size	Model	Front bar(psi)	Rear bar(psi)
5,5x15	6.70 R 15 C-10PR	-	3,5 (50)	5,2 (74)

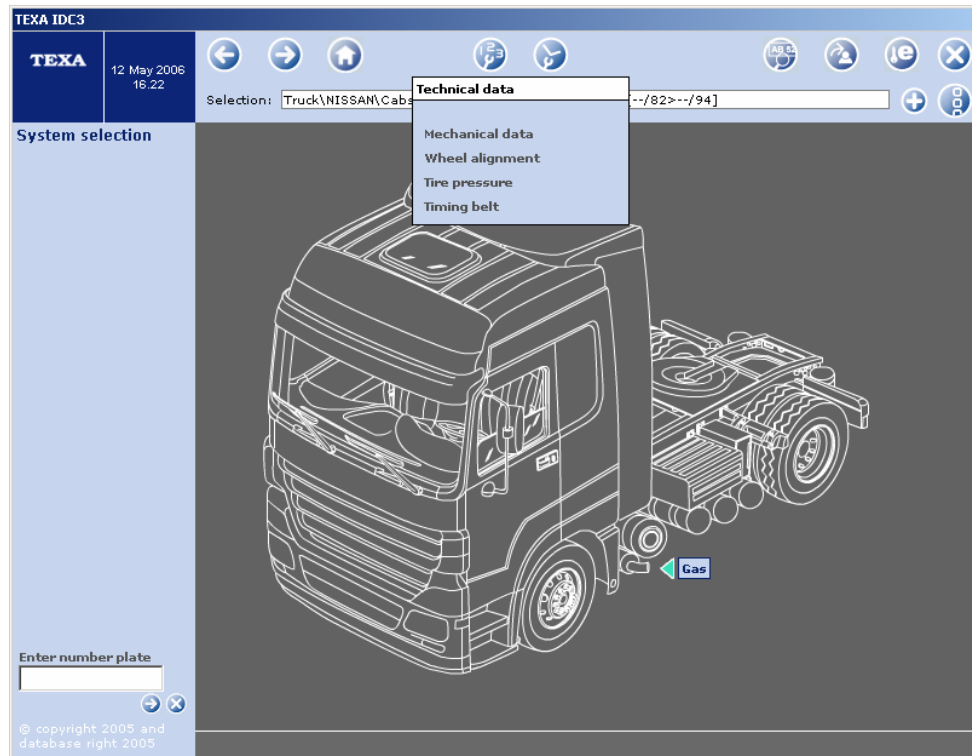
5.4 Drive Belt

Access is given to the assembly diagram of the drive belts, with the detailed descriptions of the appropriate assembling procedures. By clicking on the image one can zoom it forward.



5.5 Periodic Maintenance

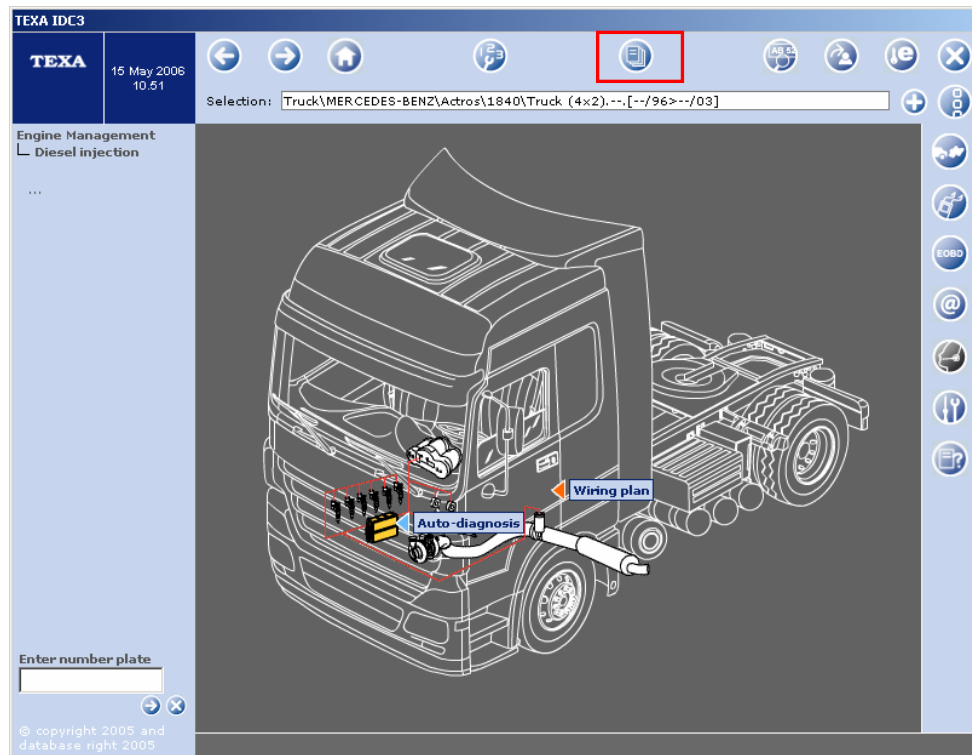
By retrieving this information, access is given to a series of tables proposed according to the kilometric performance or to the vehicle lifetime related to the verifications done by the manufacturer for the periodic maintenance.



TEXA IDC3		
Scheduled maintenance		
08.86-91		15000 km 6 months
1	VEHICLE ON FLOOR	
1.0190	Front wiper blades - Check/report	☐
1.0220	Front screen wash - Check/adjust	☐
1.0230	Rear wiper - Check/report	☐
1.0240	Rear screen wash - Check/adjust	☐
1.0260	Instrument illumination - Check/report	☐
1.0270	Direction indicators/hazards - Check/report	☐
1.0280	Lighting system - Check/report	☐
1.0300	Headlights - Check/report	☐
2	VEHICLE FULLY RAISED	
2.0020	Engine oil - Drain/refill	☐
2.0030	Engine oil filter - Renew	☐
2.0080	Clutch hydraulic system - Check/report	☐
2.0100	Gearbox oil leaks - Check/report	☐
2.0110	Gearbox oil - Check/top-up	☐
2.0410	Steering joints - Check/report	☐
2.0430	Steering rack/box - Check/report	☐
2.0450	PAS hoses - Check	☐
2.0470	Steering column couplings - Check/report	☐

6 TECHNICAL INFORMATION: REMOTE CARDS AND FORMS (AREA 3)

The electronic media of the IDC3 environment proposes different kinds of information. Among this information, the most direct and important ones refer to the technical forms and remote cards describing the characteristics and operation strategies of the various electronic systems. The technical forms refer to the problems related to the element selected at that moment and therefore can be made available at different times.

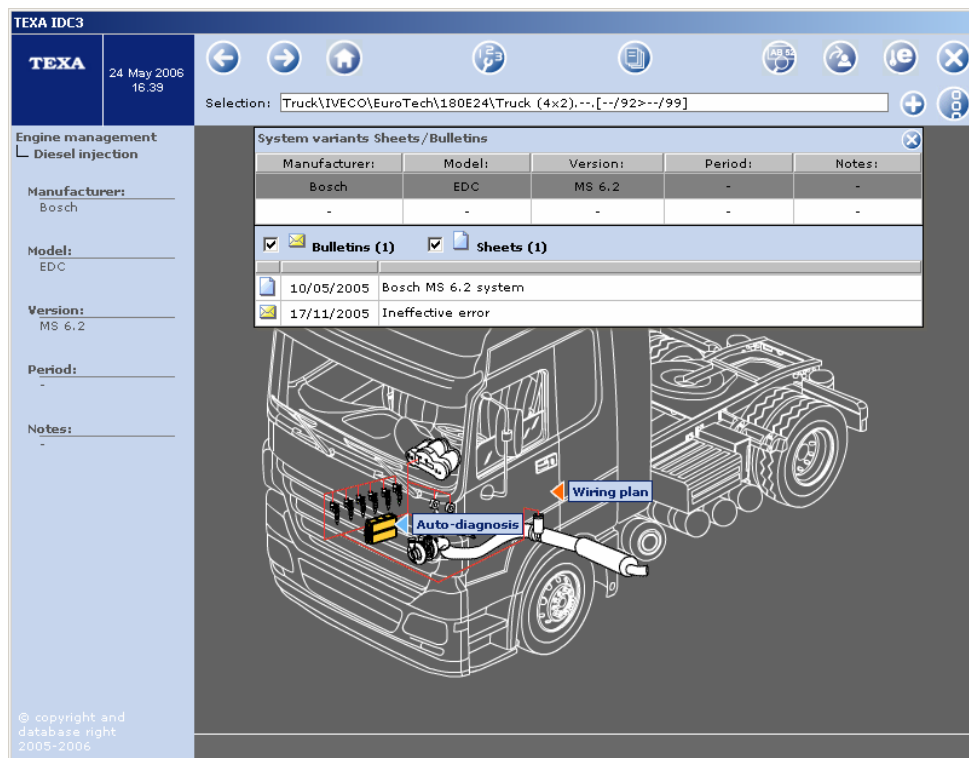


The presence of this kind of information is highlighted by the flashing icon



located in the upper area of the display.

By pressing the icon, one can access the remote cards and technical forms archive represented, by a window highlighting the number of remote cards and forms present, as displayed in the figure.



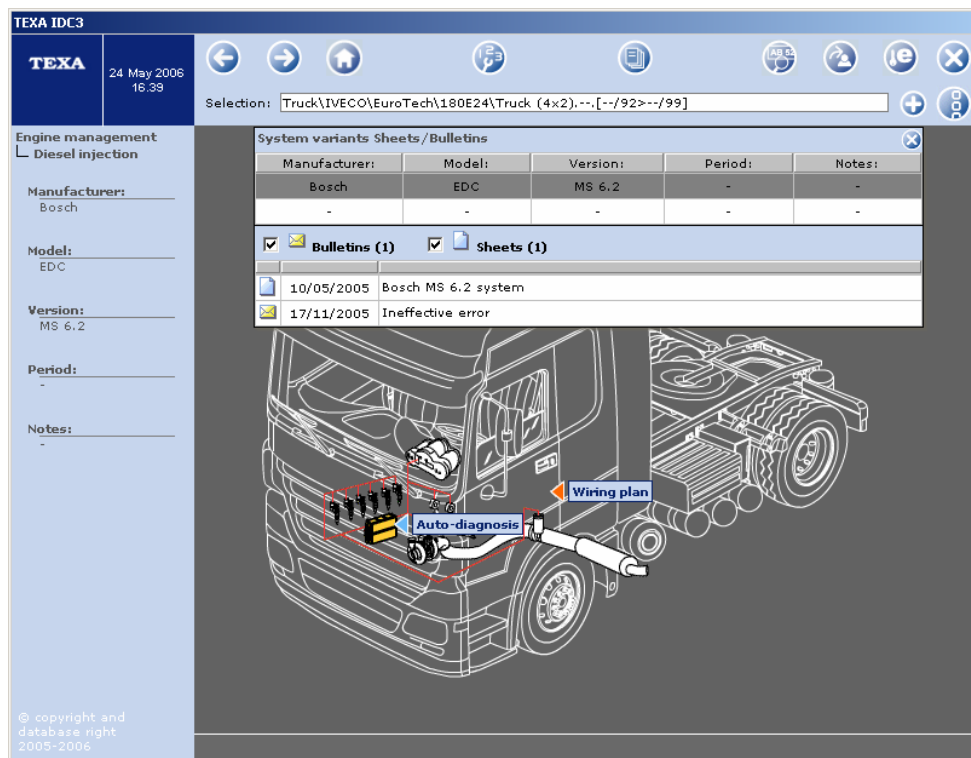
For some vehicles, both forms and equipment remote cards (see different icons) will be present in the list of available information. In the following example this situation is highlighted:

System variants Sheets/Bulletins				
Manufacturer:	Model:	Version:	Period:	Notes:
Bosch	EDC	MS 6.2	-	-
-	-	-	-	-
☒ Bulletins (1) ☒ Sheets (1)				
10/05/2005	Bosch MS 6.2 system			
17/11/2005	Ineffective error			

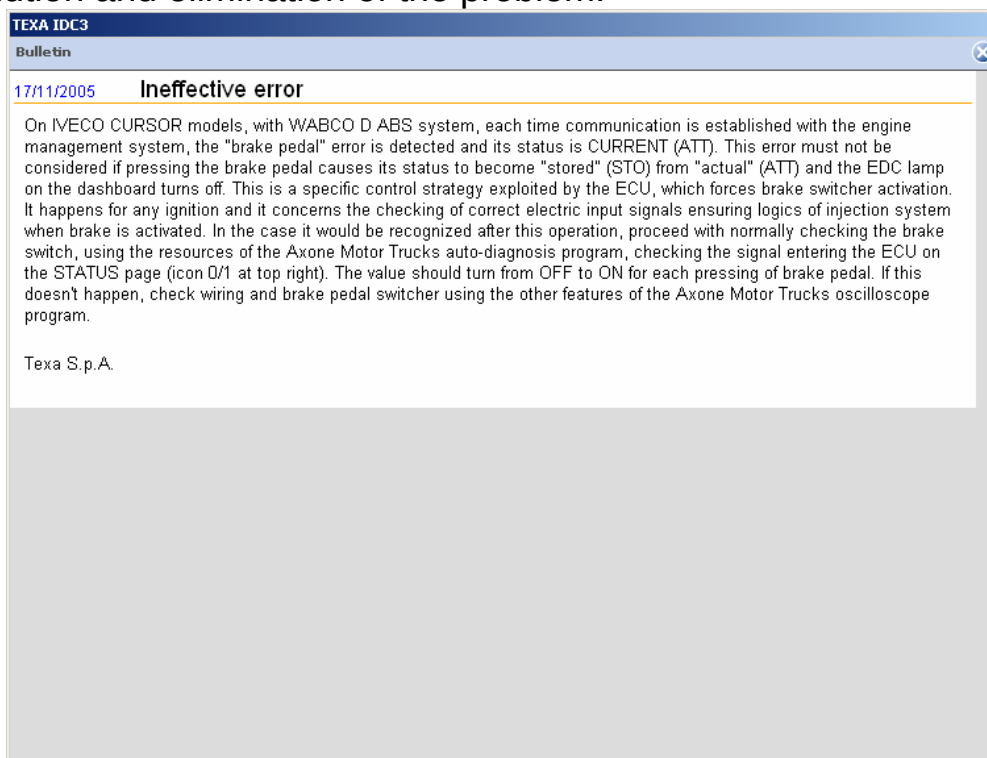
The information that we have seen follows the context of selection done at that moment. According to the stage in the selection or to the type of choice done, the forms, if provided, will be directly be available.

Using the tick mark, it is possible to display only the forms or only the record cards or both as displayed in the figure.

By pressing on the line corresponding to the record card or the form, only its content is opened.

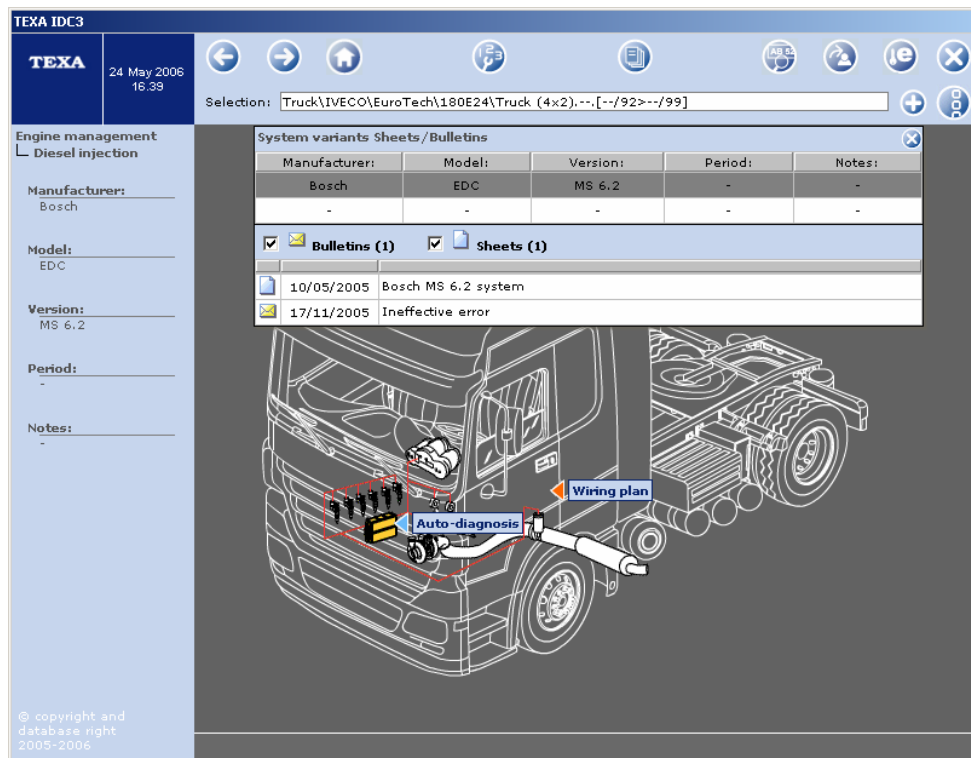


The form retrieves a remote card in which all the details necessary to solve a specific problem, already tackled and solved for the brand, the model, the electronic system on which we are working at that moment, are displayed. The forms generally refer to a particular anomaly and provide for direct information about the likely cause and about the appropriate procedure for the resolution and elimination of the problem.



6.1 System Descriptive Sheets

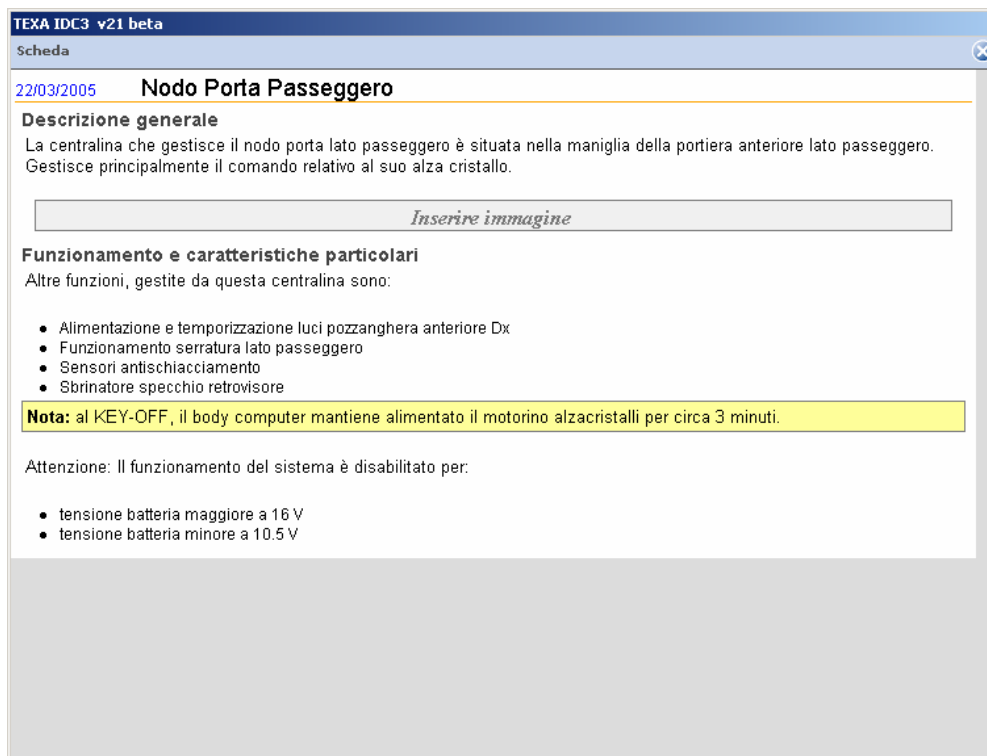
Always on the basis of the context of the selection the program makes available a system descriptive card that contains a series of important information to work safely on the system.



In the following example the electronic system “Driver’s Seat Door Node” is selected and for which a specific data sheet is made available. Generally these cards have contents organized in the same way and they include:

- general system description and operation strategies
- operation and specific characteristics
- connection and disconnection.

The information about the operation is very useful when you work on systems with network technologies. It is possible, indeed, to know how the control unit shares the information with the other systems (operation strategy). So in the analyzed example we discover that the system detects the data about the outside temperature. These data are then sent to the control units that need them, for example the air conditioner control unit.



6.2 Direct Communications from Texa with Automatic Reception (SMS) and Sheets Filing

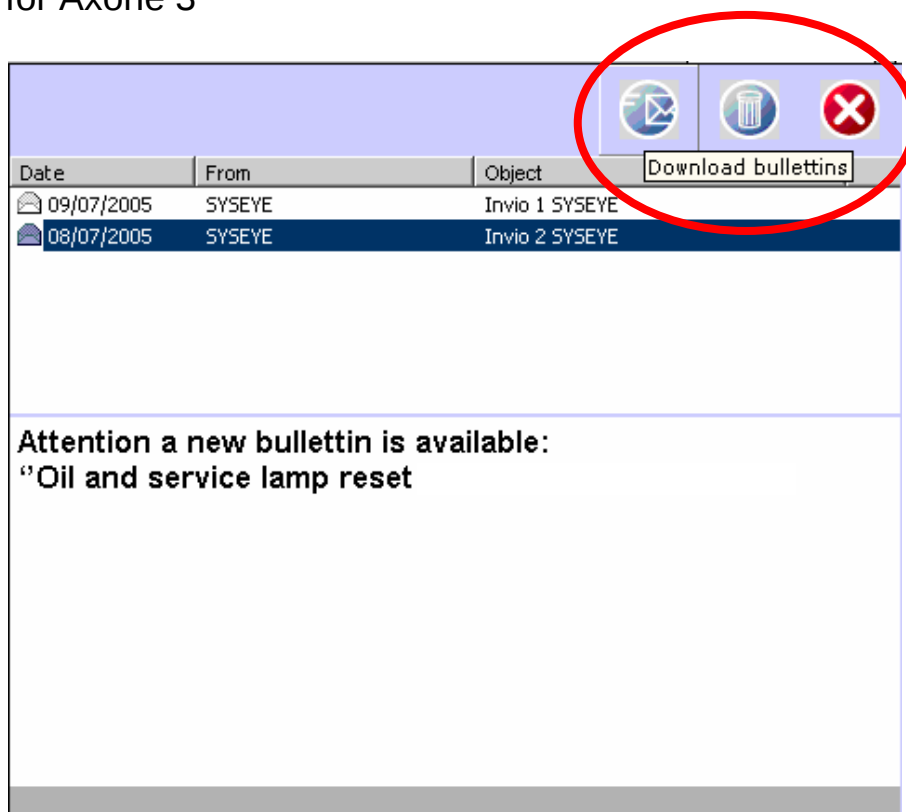
To improve the service related to the information transfer, a GSM module for capturing SMS type messages has been integrated in the Axone 3 Mobile. With the use of this service the customer can rapidly receive, from Texa, useful information related to the issue of new sheets, releases of new version, etc.

A SMS message can be received at any time during the normal use of Axone 3 Mobile. The arrival of a new SMS is reported by a little window displayed on the bottom right side of the display.

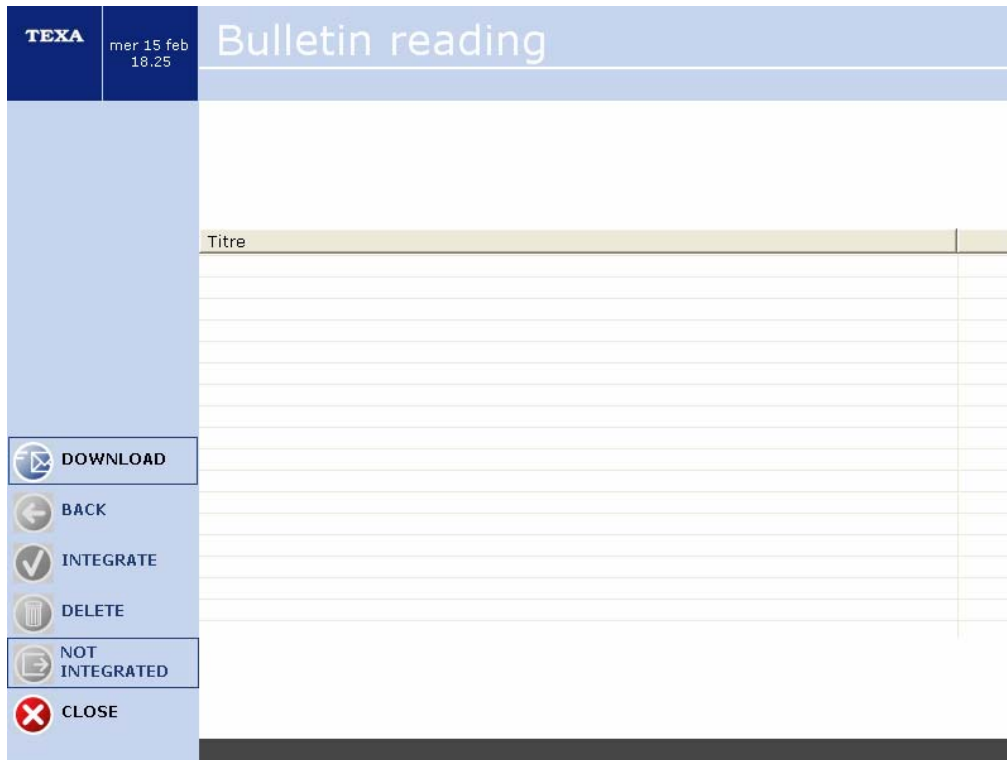


In case of SMS related to the issue of new sheets, the button “Sheets Download” is automatically displayed.

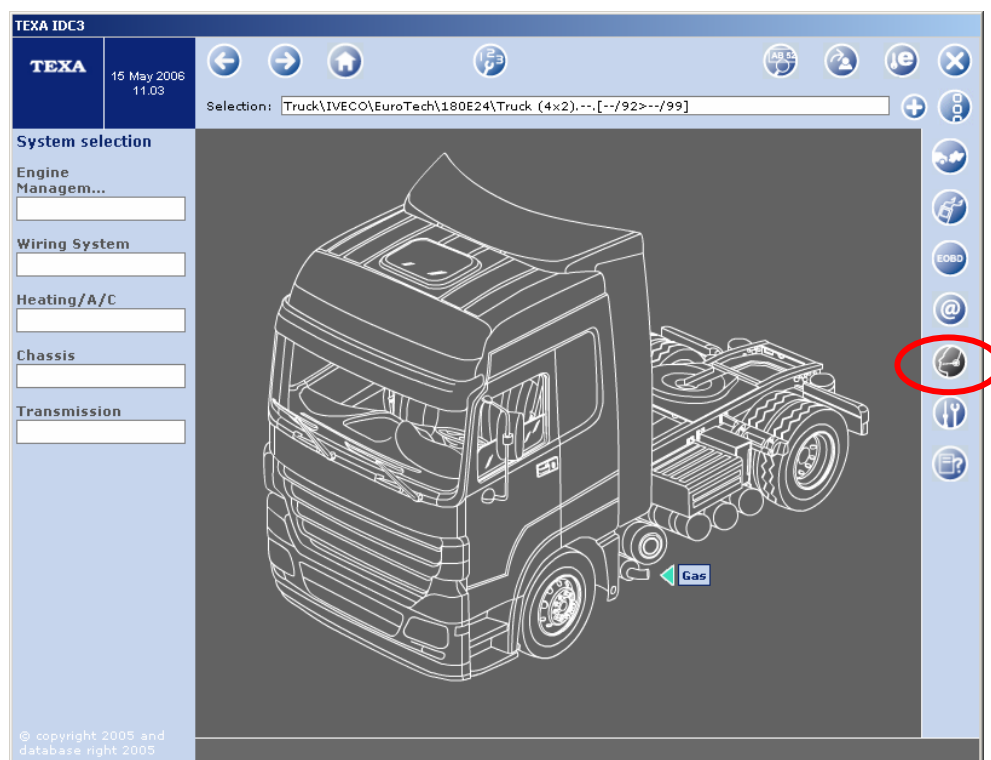
Note: Only for Axone 3



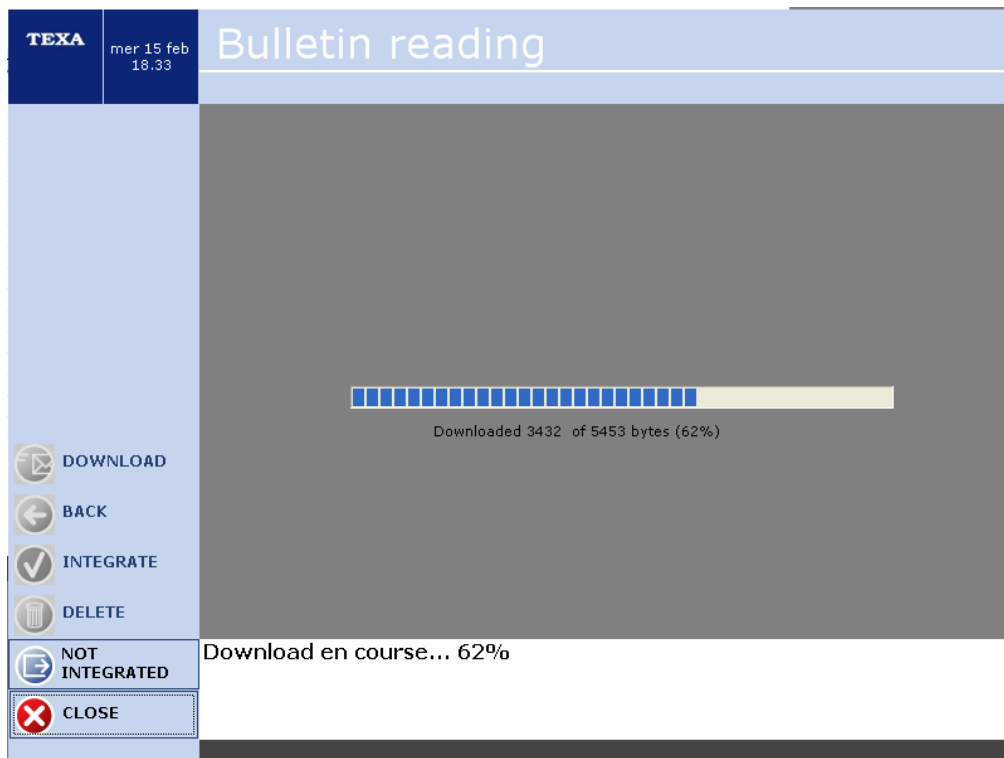
By pushing the  button, the “Sheets Download” software gets started automatically.



This software can be manually started by the “Functions Toolbar”, as described in the following figure:

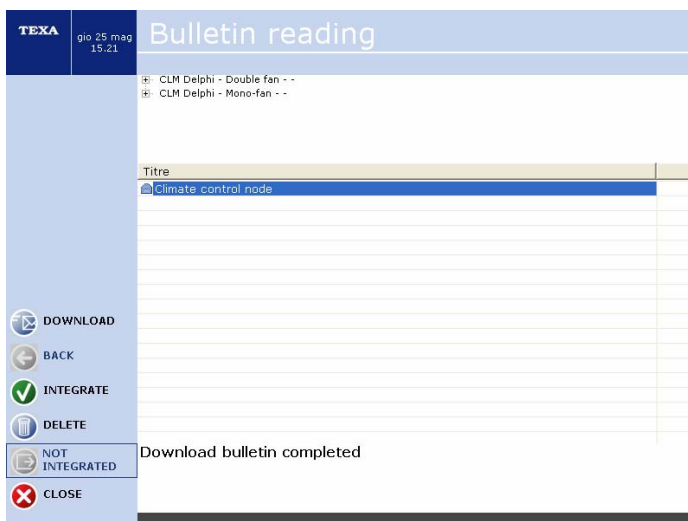


By selecting the “Download” button, the Sheets Download procedure is started.



Once the sheets have been downloaded, they can be consulted by a double click on the concerned sheet, deleted by the “DELETE” function, or integrated into the databank by using the “INTEGRATE” function. This function saves the sheet in the correct position, associating it to the brand, the model, the system, the component or function to which the sheet refers.

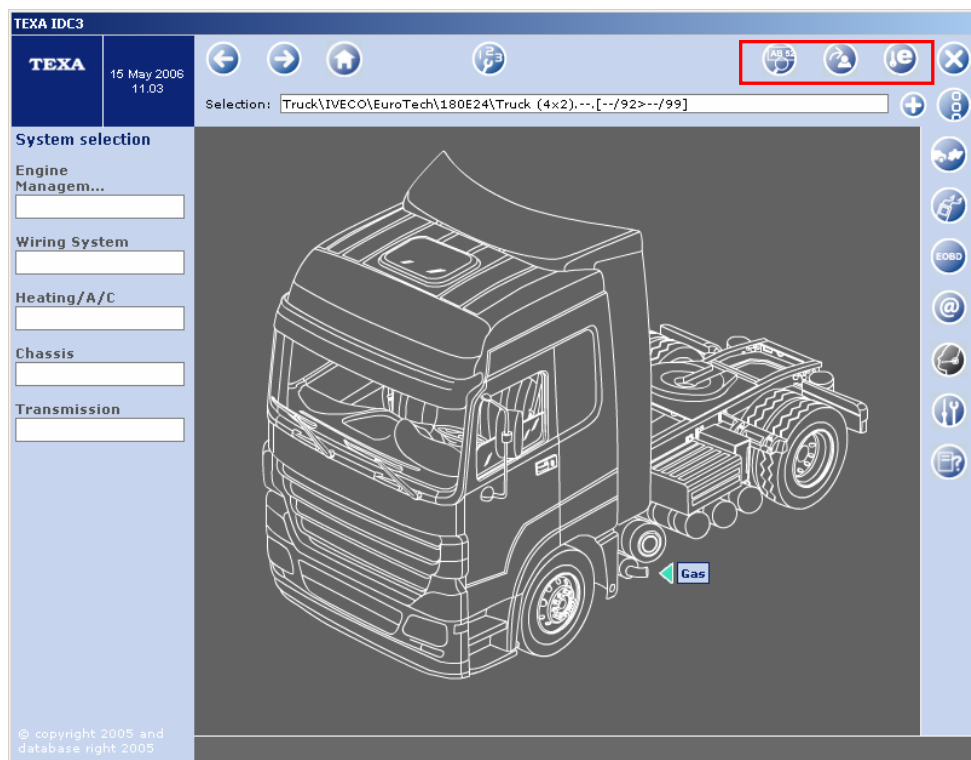
Attention the “DELETE” function does not delete the sheet fully, but moves it to a new section which can be consulted by the “NON INTEGRATED” button.



By selecting the concerned sheet, the models and the systems to which the sheet is associated are displayed on the upper part of the window.

The **NON INTEGRATED** button allows accessing those deleted sheets for which the integration in the databank has not been made available.
The sheet could be available only if the vehicle or the electronic system to which the sheet refers are not present in the used version of the software.

7 ADMINISTRATIVE SOFTWARE (Customers and Spare Parts) (Area 4)



In the main page at the top right side the command icons are present to access some specific programs created to help the operator to manage the works done by the customers and to manage spare parts.



Button to search the customer by vehicle number plate.

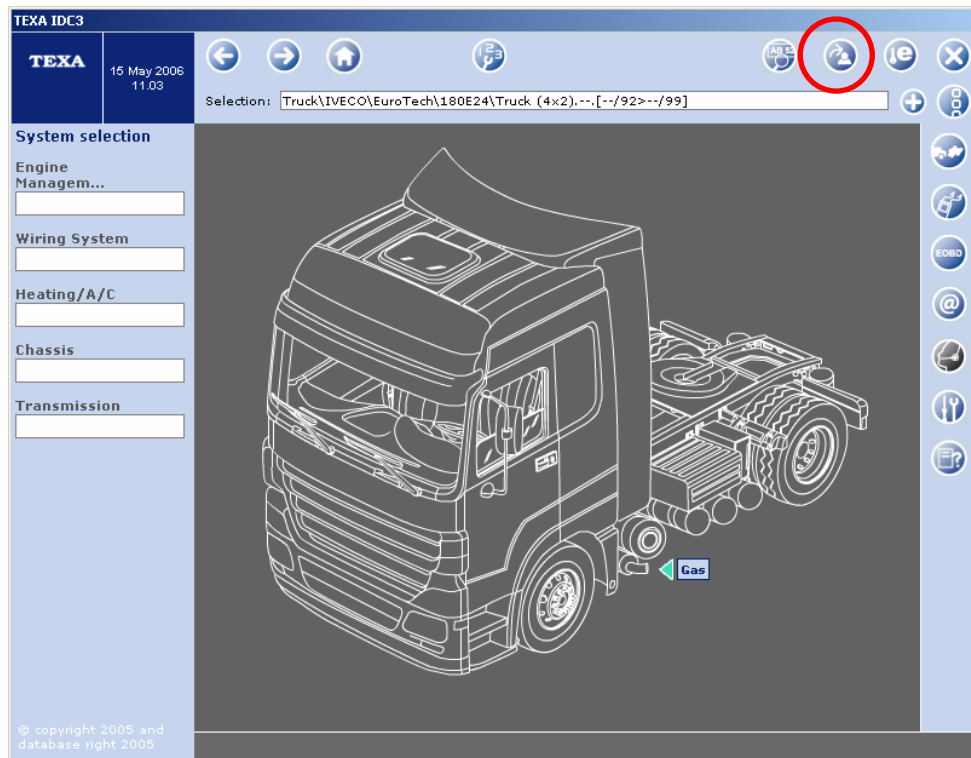


Button to access the management program, the customers file and the related recorded tests.



Button to access the spare parts portal for the management of estimates and spare parts orders.

7.1 Customers Management



By clicking on the icon  access is given for the management of customers and of the activities performed on their vehicles. On the other hand the icon on left is used to search for and retrieve a car model from the number plate. The starting page of the customers management program allows to open a new customer record card or to search for a card already recorded. From the following figure it is possible to see how the operator can input the specific data of the customer. The association is always made with reference to the number plate.

TEXA 15 mag 2006 8.44 **Customer Management** OPEN THE DOSSIER

Plate AB234CD Client Insert

Model
Truck
IVECO
EuroTech
180E24
Truck (4x2)
--
[--/92>--/99]

Vehicle Detail

Plate Registration date / /

Chassis Registration country

Notes

Search
☒ Surname
☐ Company

Owner's data

Surname Name

Company

Street

Town Region

Country Post code

So it is possible to go ahead with the function allowing the operations carried out to be recorded, distinguishing them by:

- problem reported by the customer
- problem really detected and its origin
- repair / retrieval operation carried out.

Assistance Report

Assistance Repair
Open date kilometres Reading State

Type of Repair

Reported Problem

Description

Noticed Problem

Description

Performed Repair

Description

Once saved, the remote card is permanently filed.

The information can afterwards be searched and retrieved by selecting the search button, as shown in the following frame:

TEXA
15 mag 2006
8.59

Customer Management

FREE SEARCH

Plate Client

Model
Truck
IVECO
EuroTech
180E24
Truck (4x2)
--
[--/92>--/99]

☒ Client
☐ Company

Plate

Results

Plate	Client	Type	Tests
AB234CD		IVECO - EuroTech	0
AZ444RE		IVECO - EuroTech	1
BC456KL		NISSAN - Cabstar (F22)	1
CD234FG		MERCEDES-BENZ - Actros	1

The program allows to search by number plate or customer / company name. After having found the customer, it is possible to retrieve the model set-up by clicking on the “Model Set-up” button and so proceed with assistance activities or display the operations already performed on that vehicle. The following examples show the exhaust emission values check test and the one related to the autodiagnosis parameters measurement.

TEXA
17 mag 2006
9.51

Customer Management

REPAIR

Plate Client

Model

Operations
Recorded tests
Maintenance
Materials

Tests done

Date	Type of test	Delete
17/05/2006 9.50	Measurement	Delete

Detail

Detection	Measurement	Value	Max	Min	Result
Engine speed	rpm	0	-	-	-
Oil Temperature	°C	93	-	-	-
CO	% vol.	0.00	-	-	-
CO2	% vol.	0.00	-	-	-
CO Corr	% vol.	-	-	-	-
HC	% vol.	4	-	-	-
O2	% vol.	20.80	-	-	-
Start	-	-	-	-	-

TEXA

15 mag 2006 9.16

Customer Management

REPAIR

Plate

AK989TY

Client

Maintenance

Model

Truck

NISSAN

Cabstar (F22)

2.0

Truck (4x2)

Z 20

[--/82>--/94]

Operations

Recorded tests

Maintenance

Materials

Type of maintenance

Date	Type	Choice	Delete
15/05/2006 9.14	15000 km 6 months	08.86-91	Delete
15/05/2006 9.14	30000 km 12 months	08.86-91	Delete

Detail

Description	Result
Footbrake travel - Check/report	OK
Instruments - Check/report	OK
Rear wiper - Check/report	OK
Lighting system - Check/report	OK
Engine oil filter - Renew	OK

Print preview

SEARCH

VEHICLES

CLIENTS

REPAIR

REPORT

CLOSE

Some data can be displayed even in a graphic format.

TEXA - Printer Center

Print

Close

TEXA

Auto-diagnosis Results

File parameters

Dati Officina

Ragione Sociale

Address

Town

Telefono

Post code

Email

Vehicle data

Number plate

Tests Detail

motorization

Silhouette

AA123TG

IVECO

29L10

F1AE0481A

Chassis

Model

Code engine

Period

231232

Daily

Commercial

[--/02>]

Test Results

Date	Time Begin	Time End	Result
20060525	17:21	17:22	

Auto-diagnosis values

11.57

0

Tensione batteria

11.53 V

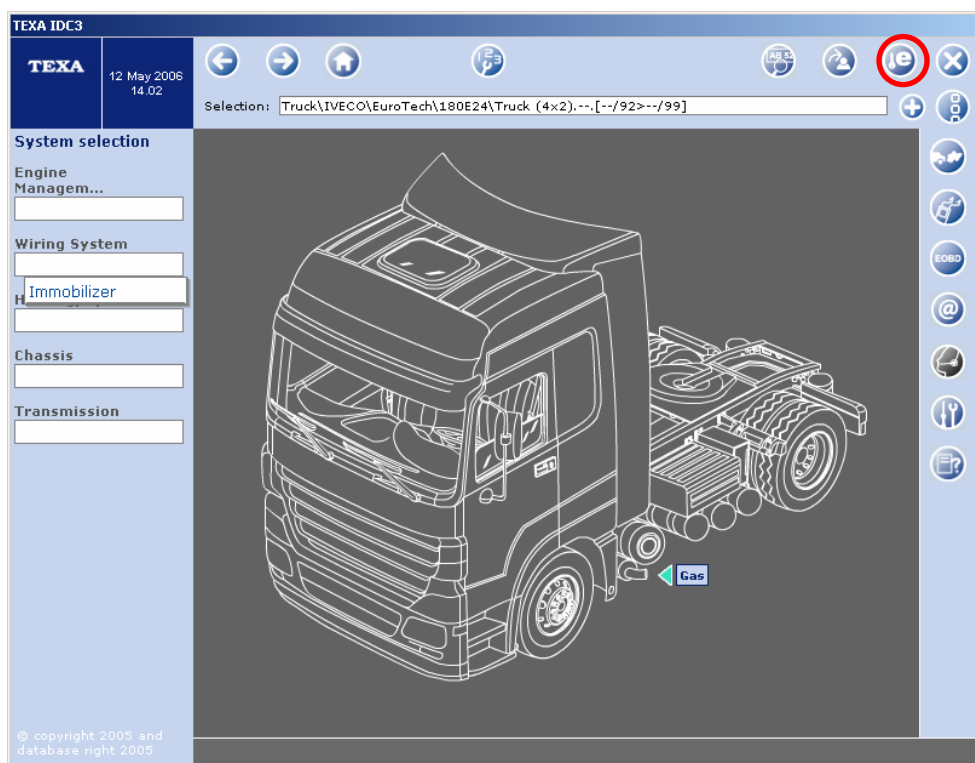
Velocità del veicolo

0 km/h

Both the tests can be displayed in data format and in a graphic format .
In this example, the remote card related to the maintenance intervention has been retrieved:

7.2 Spare Parts Portal

In the spare parts portal it is possible to perform a simple and efficient spare parts management.



By clicking on the icon highlighted in the following figure, access is given to the specific program where it is possible to manage the estimates and spare parts orders.

The program stores the selection of the vehicle that was being checked, automatically giving the order or the estimate with all the necessary details to correctly detect the spare part, eventually providing only the data related to the spare part itself as codes, brand, description...

Moreover, by using IDC3 on Axone 3 it is possible to use a new important resource, that is the Web Camera which can take pictures of the spare parts.

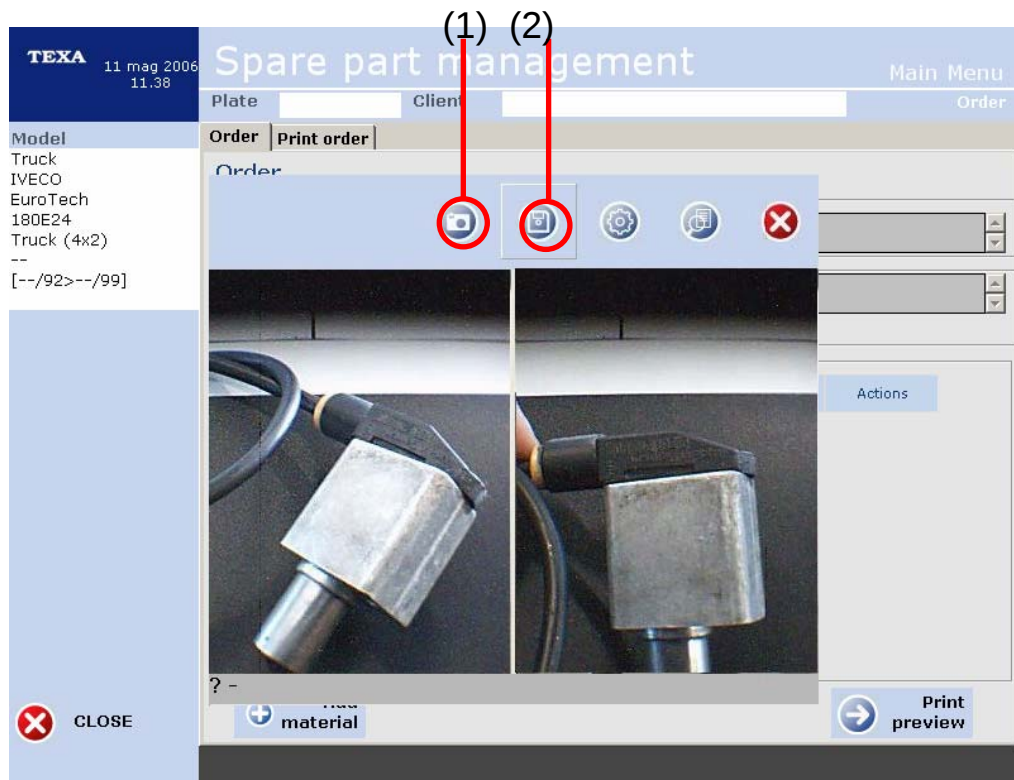
7.3 Web Camera

AXONE 3 Mobile has a little camera inside which can be used for taking pictures and for sending images. The camera is also an important tool which integrates and completes the simple and accurate management of the search and request for estimates of the spare parts.

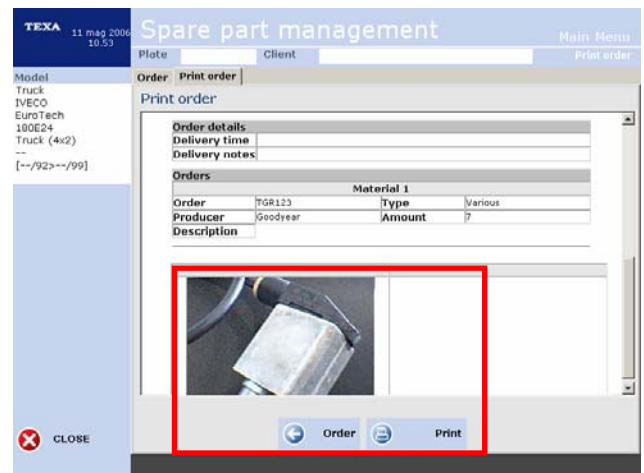
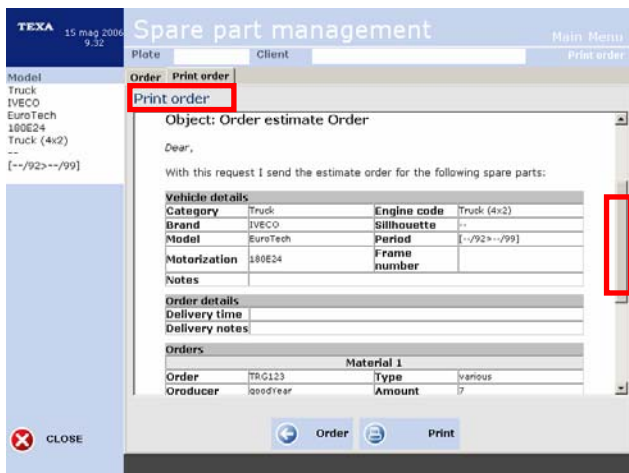
Note: only for AXONE 3 Mobile

By using the selection data already available (as the data from the tests performed on the vehicle), the program provides a page for the completion of eventual details and input of the detail references of which availability and quotation can be asked for.

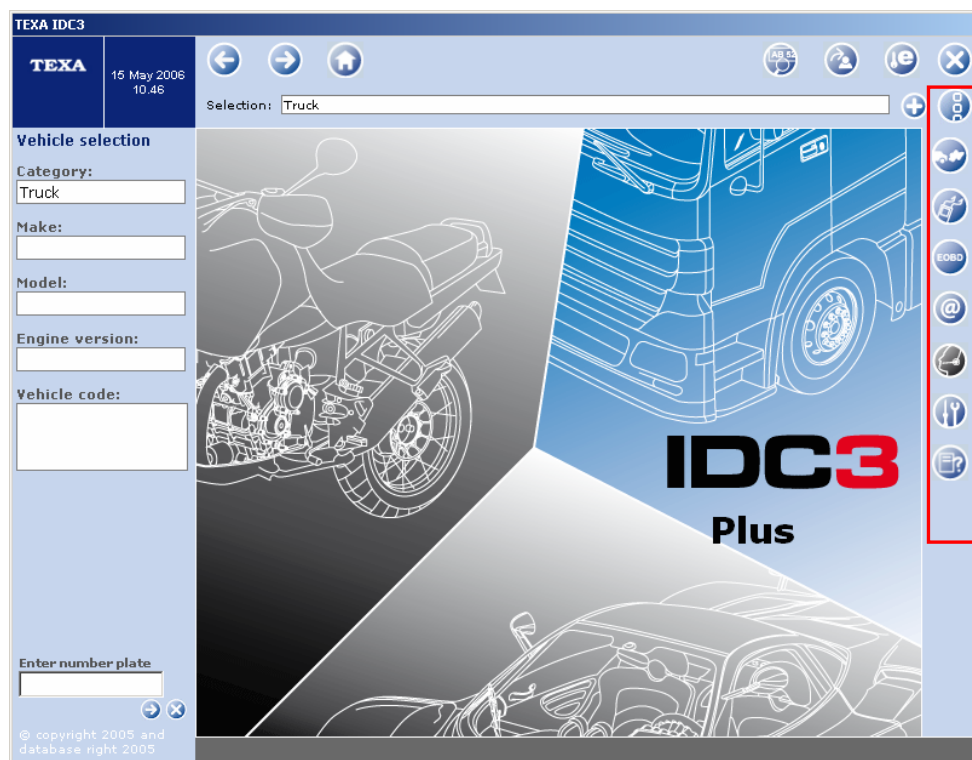
At this point it is possible to insert also the picture detail in the request. By clicking on the icon "Take the Picture" the window shown in the following figure appears. By selecting the (1) button the picture is taken, by selecting the (2) button the picture is stored and it is combined to the request document.



It is possible to display the document preview by clicking on the item “Order Print-out” (1). It is possible to scroll up and down the document by dragging on the right side cursor of the window. The request document preview also shows the picture detail.



8 USE DIRECT SELECTION OF TOOLS (AREA 5)



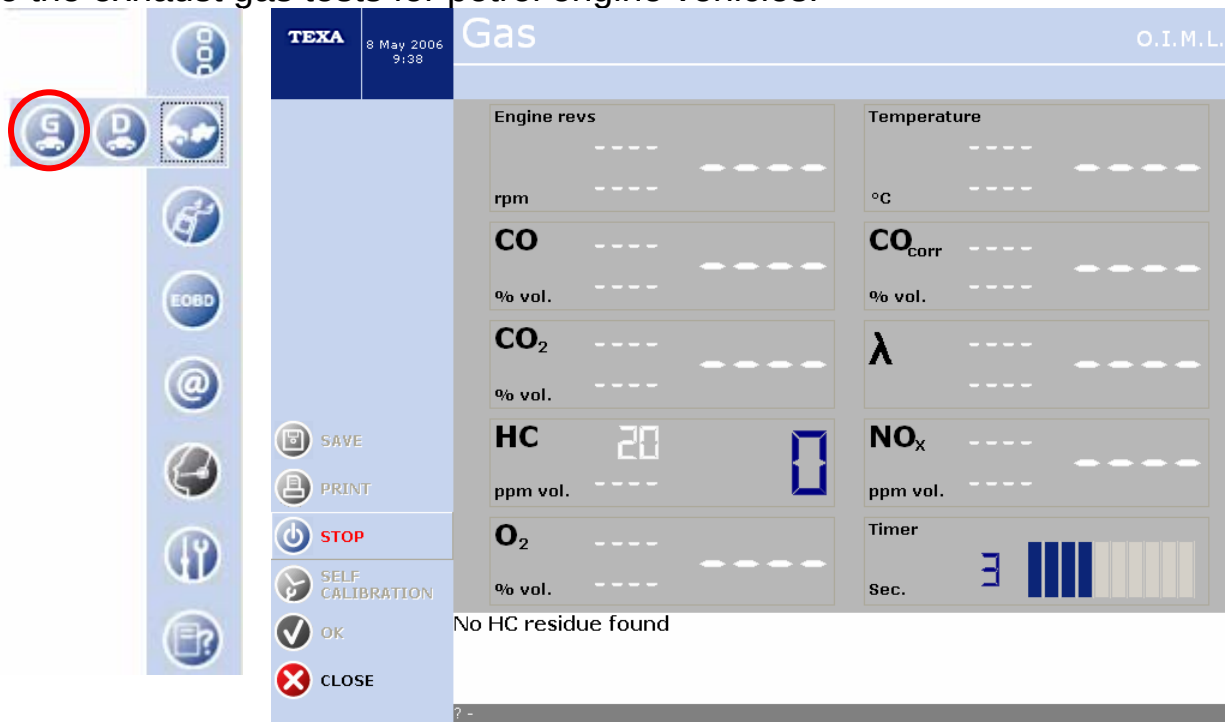
By clicking on this button placed on the top right, a bar (ToolBar) grouping a series of icons appears, by which one can retrieve some kinds of tools (according to the version of the program used). Particularly, the following icons are available:

Icon	Function	Reference Chapter
	It starts up the program for the gas emissions test for petrol engine vehicles.	GAS Analyzer (TOOLS Section)
	It starts up the program for the gas emissions test for diesel engine vehicles.	Opacimeter (TOOLS Section)
	It starts up the program for the oscilloscopic tests.	Oscilloscope (TOOLS Section)
	It starts up the multimeter program.	not available
	It starts up the program for the electrical analysis of the ignition system.	not available
	It starts up the program for the pressures measurements.	not available

	It starts up the program for the tests of the battery circuits, start-up and recharge.	not available
	It accesses the Internet communication. Resources	not available
	Technical Sheets update	Service Menu
	It starts up the help function with remote assistance.	not available
	Service program and setups	Service Menu (TOOLS Section)
	Function to display online the user manual of the IDC3 software.	- -

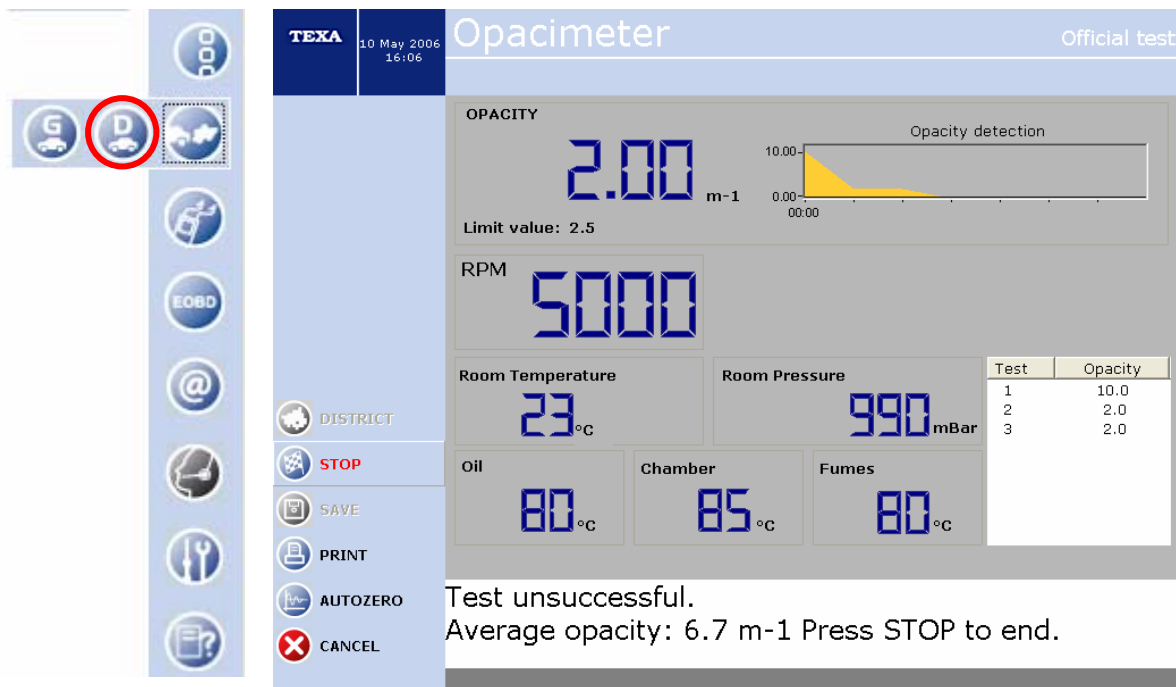
1.1 Direct Access Gas Test

By clicking on this button and if a Texa Analyzer is available, access is given to the exhaust gas tests for petrol engine vehicles.



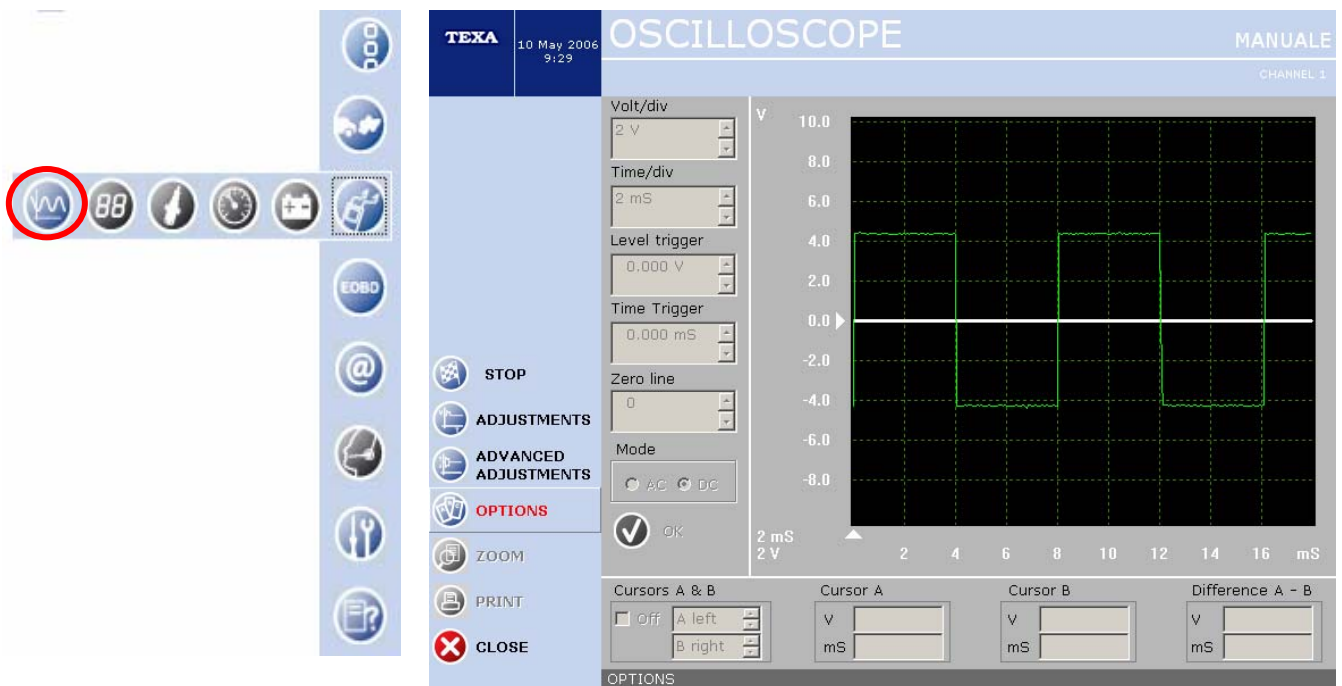
8.1 Direct Access Fume Test

By clicking on this button and if a Texa Opacimeter is available, access is given to the fume test for diesel engine vehicles.



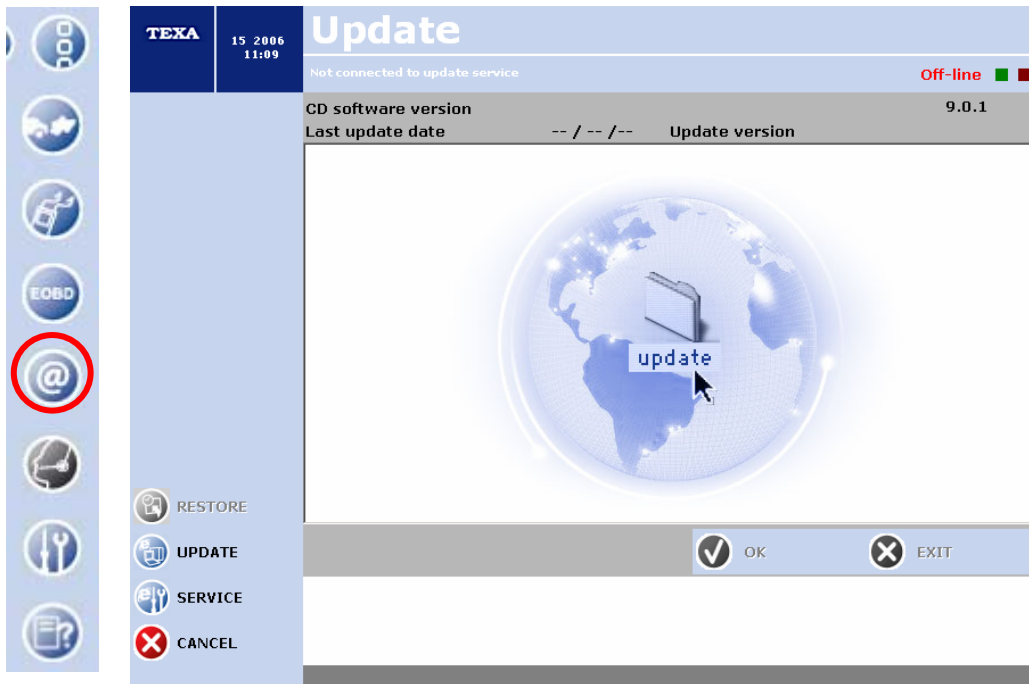
8.2 Direct Access Oscilloscope Test

By clicking on this button and if the ACQ Module is available, access is given to the measurement and oscilloscope tests.



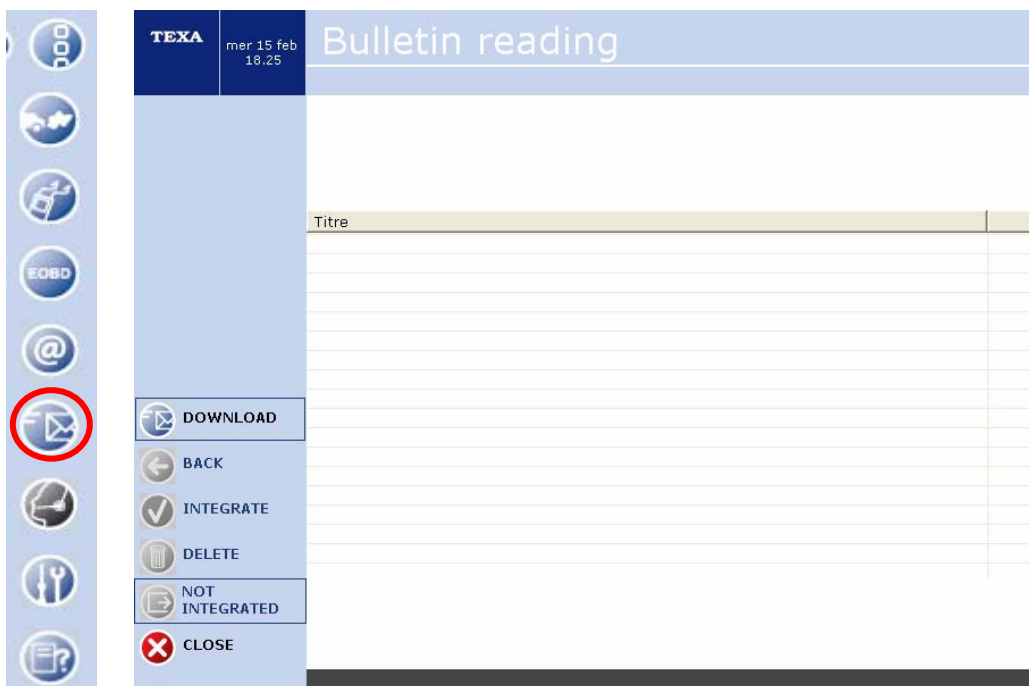
8.3 Software Update

By clicking on this button, if connected to the Internet, it is possible to update the IDC3 software package.



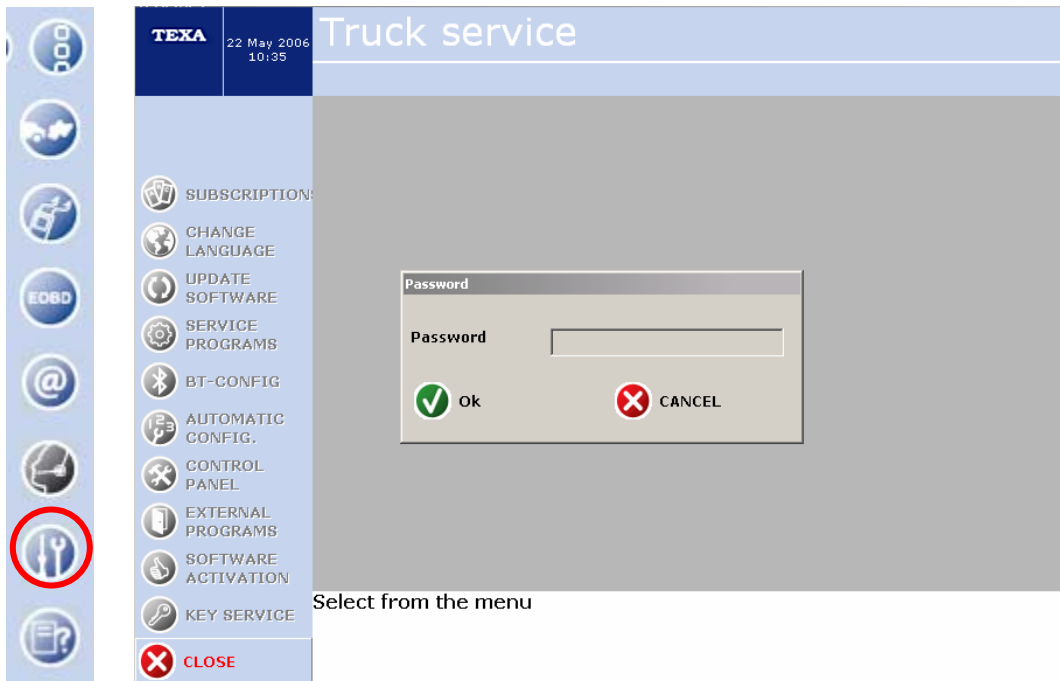
8.4 Technical Sheets Update

By clicking on this button, if connected to the Internet, it is possible to update the technical sheets.



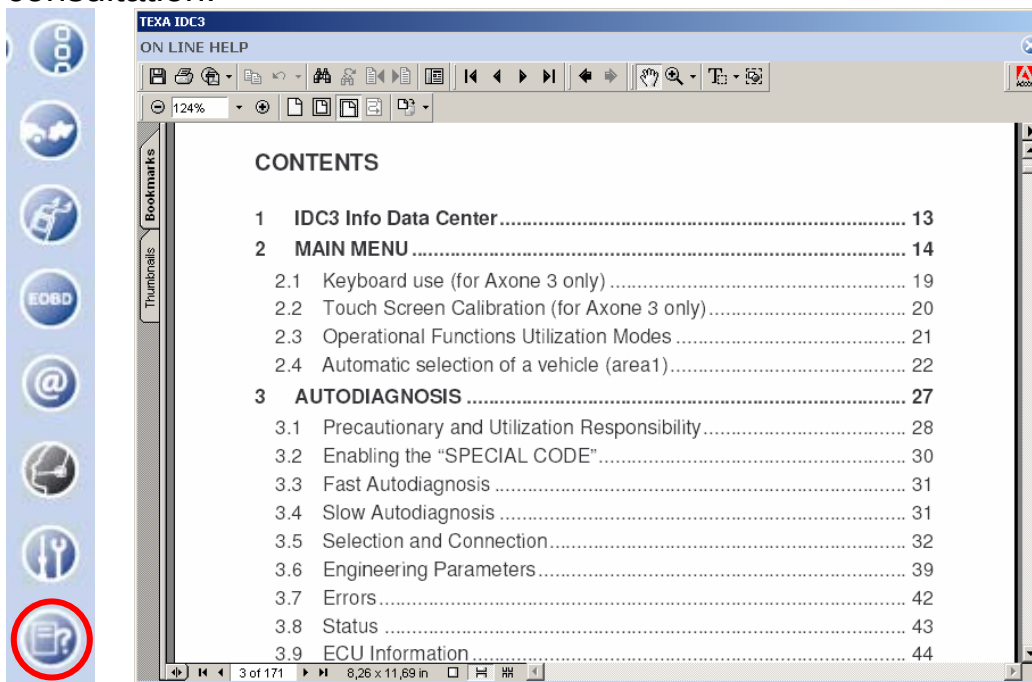
8.5 “ IDC3 Service “ Set Up

By clicking on this button, access is given to the service menu of the IDC3 software (see chapter IDC3 Service).



8.6 Online Help

By clicking on this button, one can access the service manual of the IDC3, for consultation:

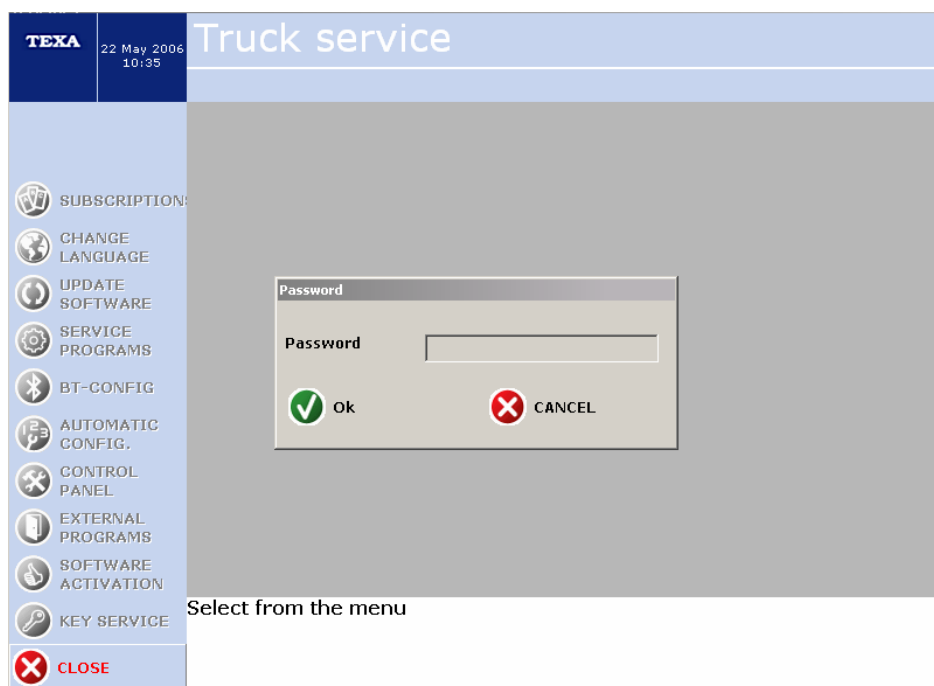


9 IDC3 SERVICE

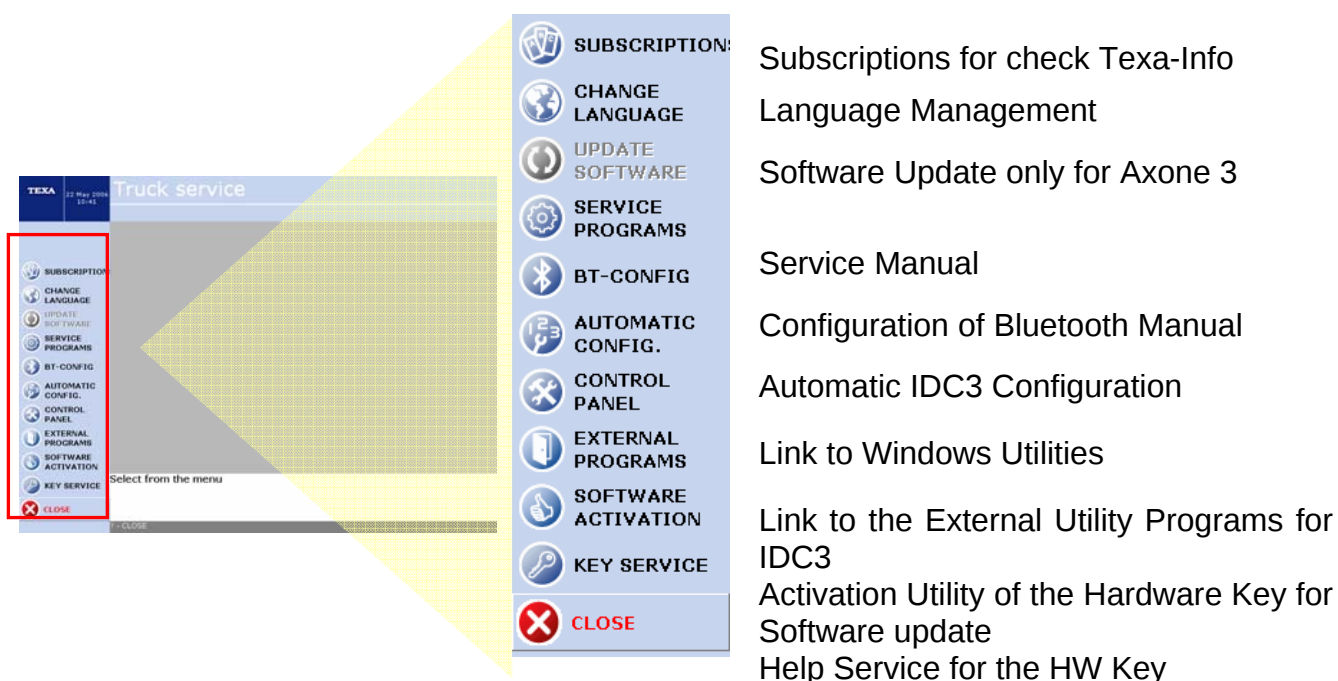


This application allows one to manage all that is supporting the IDC3 software package; the following functions can be retrieved from here:

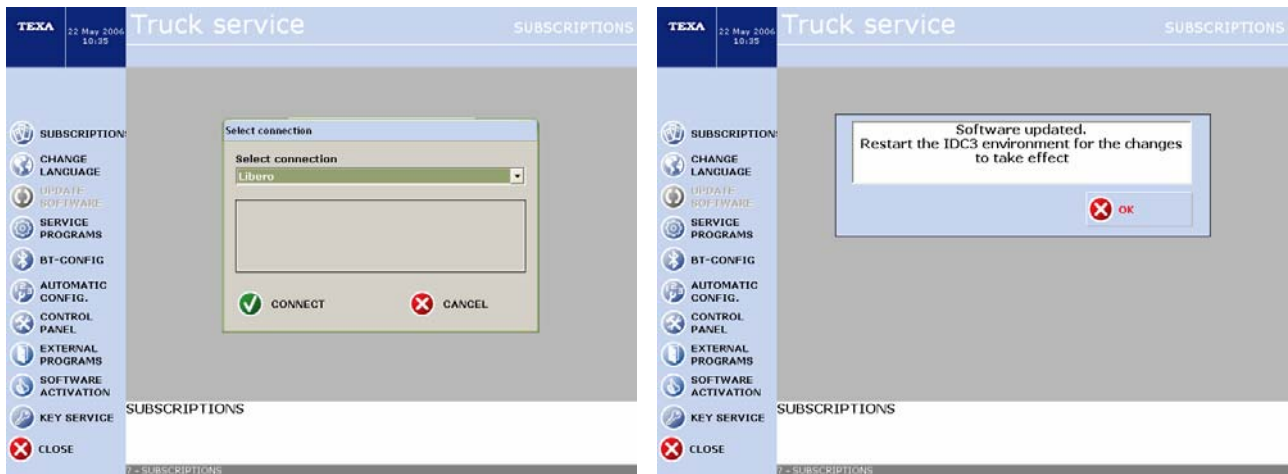
- every service of the various programs comprising the IDC3,
- some windows utilities programs for the configuration of the date, printers, network, etc...,
- the activation services of the hardware key:



After having typed the access password, the following dialog box will be displayed:



Subscriptions allows to verify the validity of one's subscription to TexaInfo.



The subscription to TexaInfo allows to download and display the technical sheets.

Activation Mode of TexaInfo:

- counter code
- Internet update
- use of the check function for the TexaUtility subscription.

Some Practical Examples:

If TexaInfo is not active, only the sheets with a date prior to the contract expiry date are displayed.

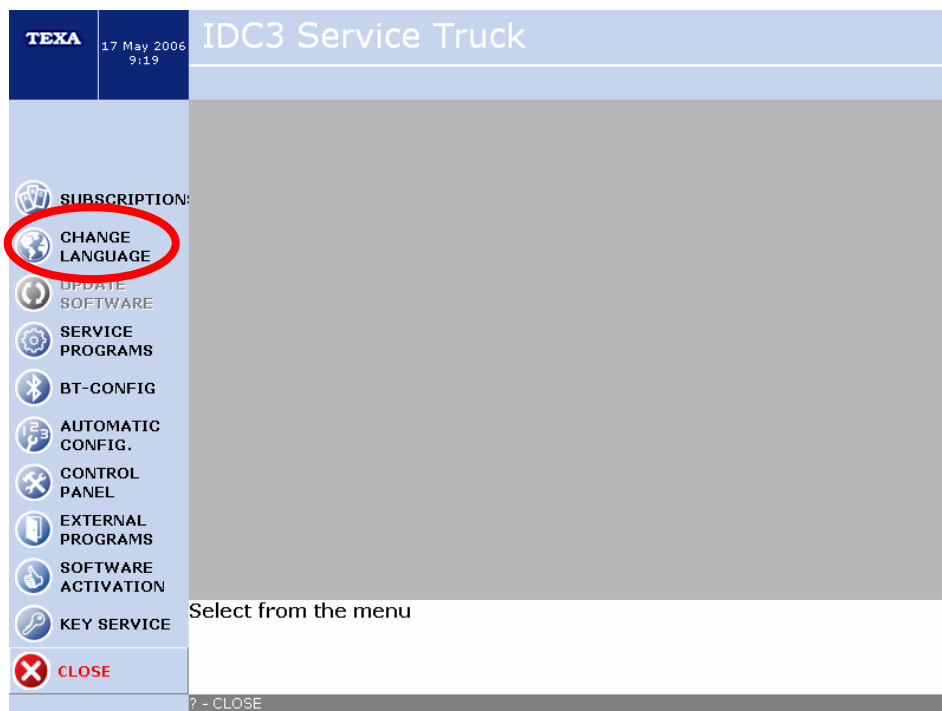
If a Customer never activates TexaInfo, only the sheets present on the version of first installation, will be displayed:

Languages update: The following sequence of operations allows to change the language in which the visualization of IDC3 software can be displayed.

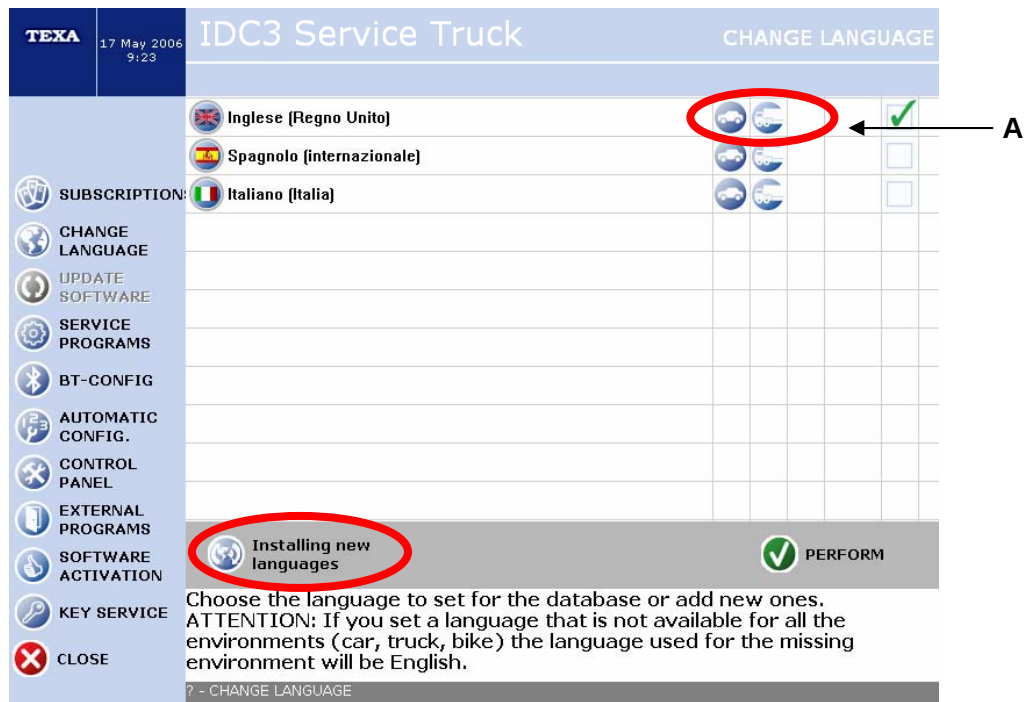
In the initial page, with the button SETTINGS in the IDC3 pull-down menu, insert the password 1236 to access IDC3 service



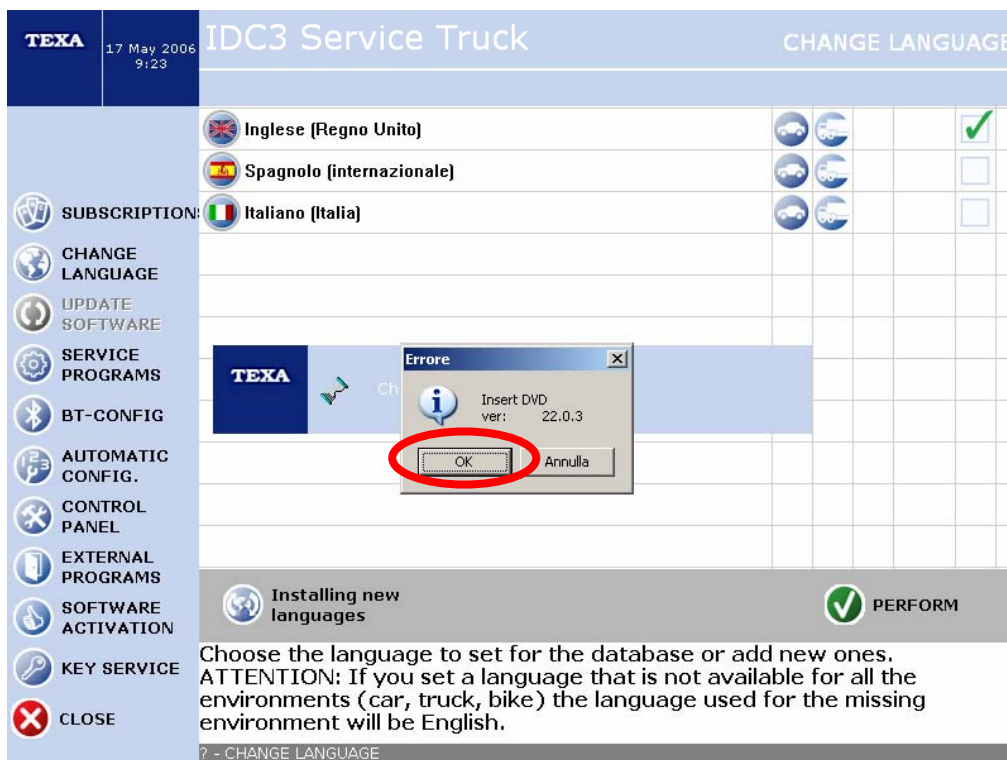
Select Change Language



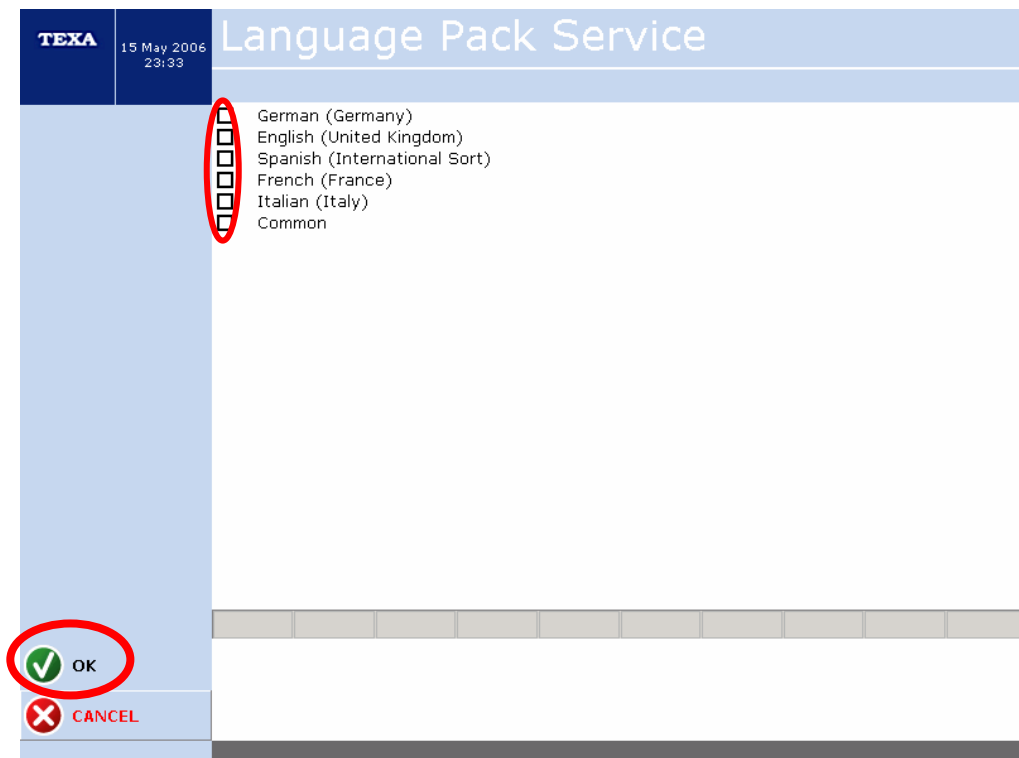
Select "INSTALLING NEW LANGUAGES".



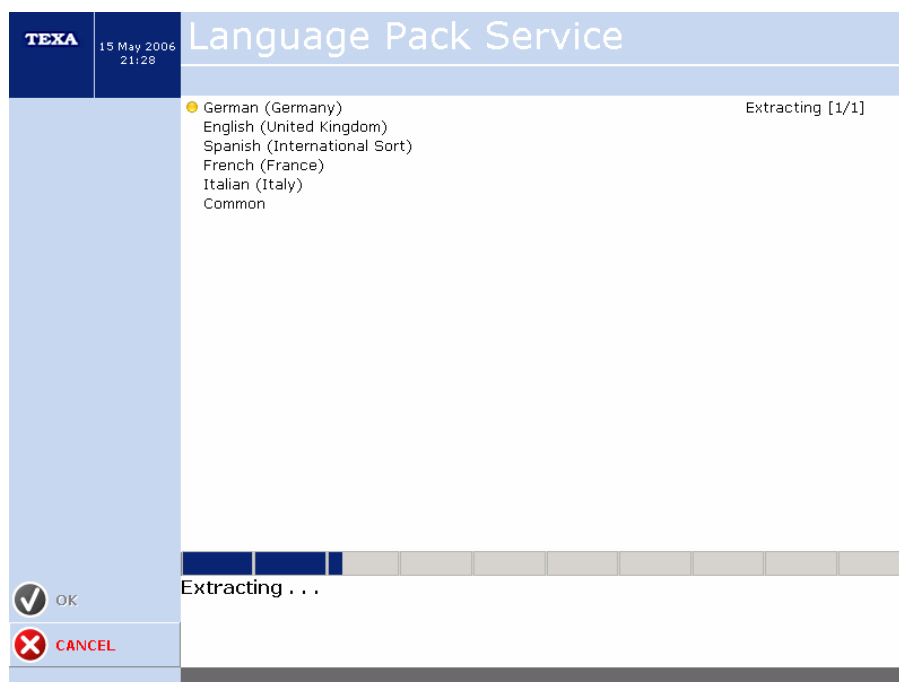
Attention: if there are more than one category it will be necessary to update the additional languages for any requested category Car, Truck, Bike (A). For the upgrade of the language, use the IDC3 DVD or an Internet connection (for Axone 3: the upgrade of the languages can be performed with the Docking Station PLUS, with an external DVD reader connected through the adapter, supplied by default with the instrument, or by an Internet connection (*for the external DVD reader use the type suggested by the technical support service*). The program will start to search for the new languages both in Internet and in the DVD support. Insert the DVD of the requested IDC3 version and press “OK”.



Select the desired languages and press “OK”

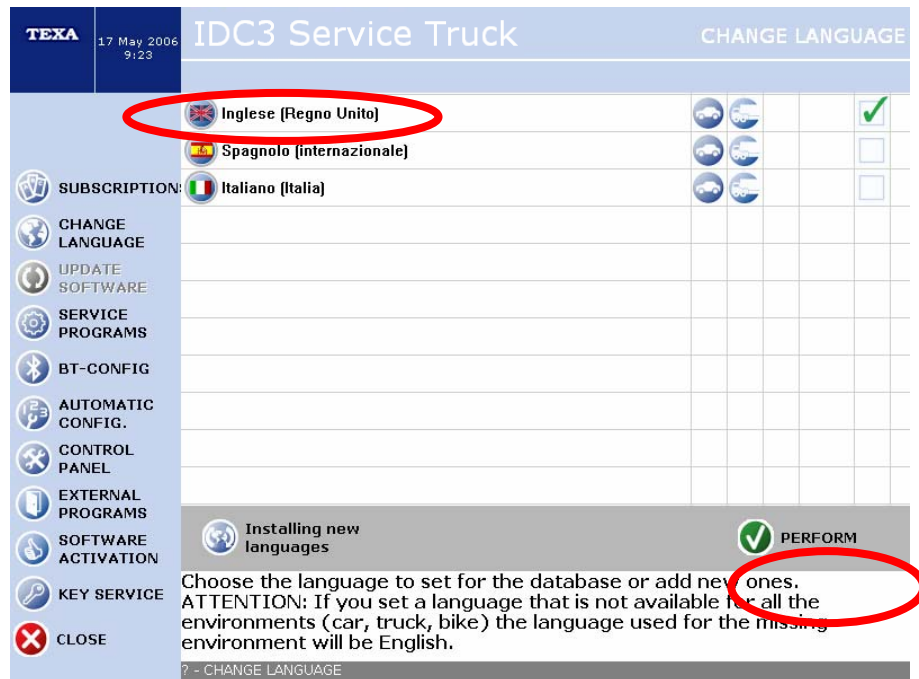


The language installation will start, this operation could last some minutes, wait for the end of the extraction.



The program will extract the selected languages and will show the progress of the operation.

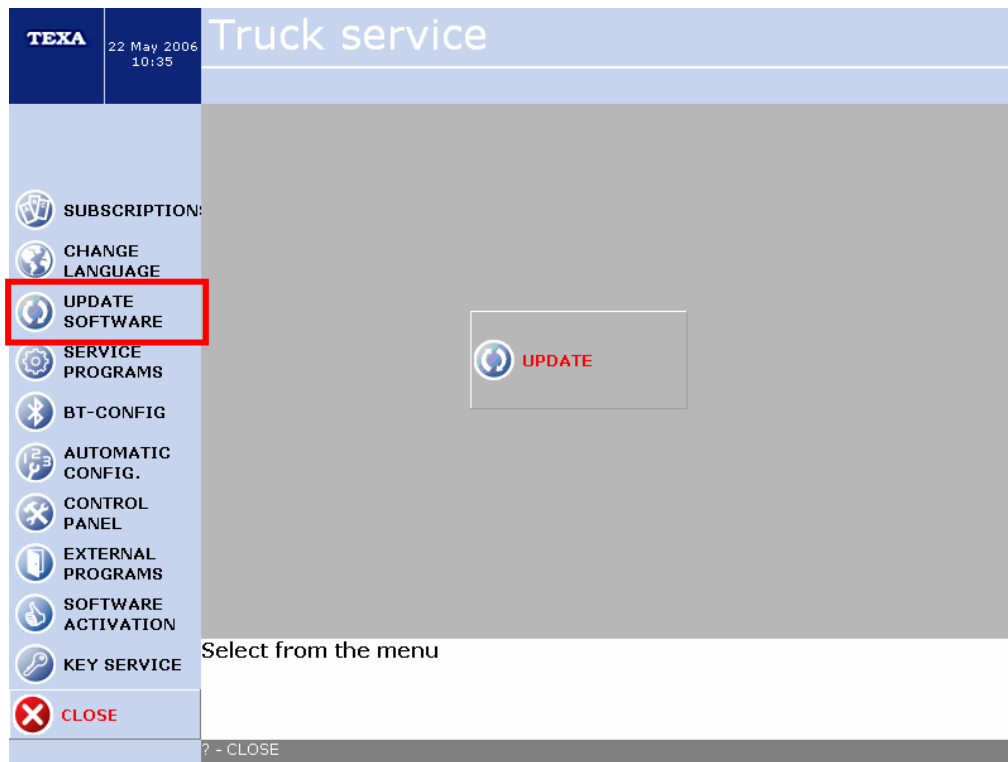
Once the languages installation has finished, select the usage language and confirm the choice with the button “PERFORM”



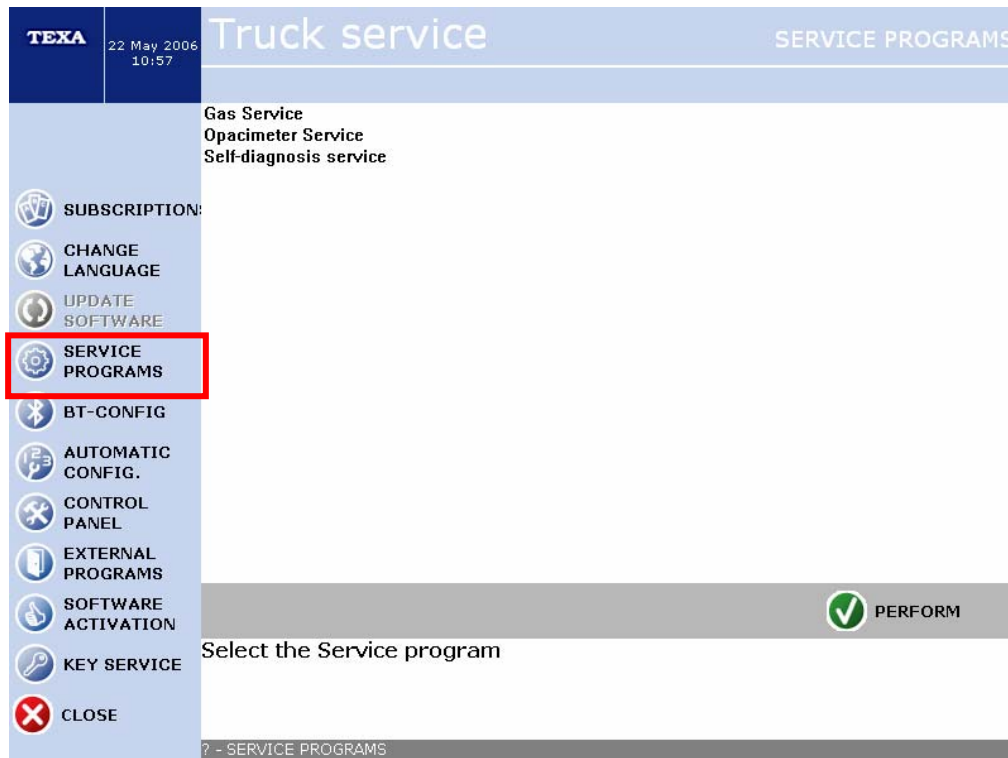
The IDC3 will be automatically restarted in the chosen language.



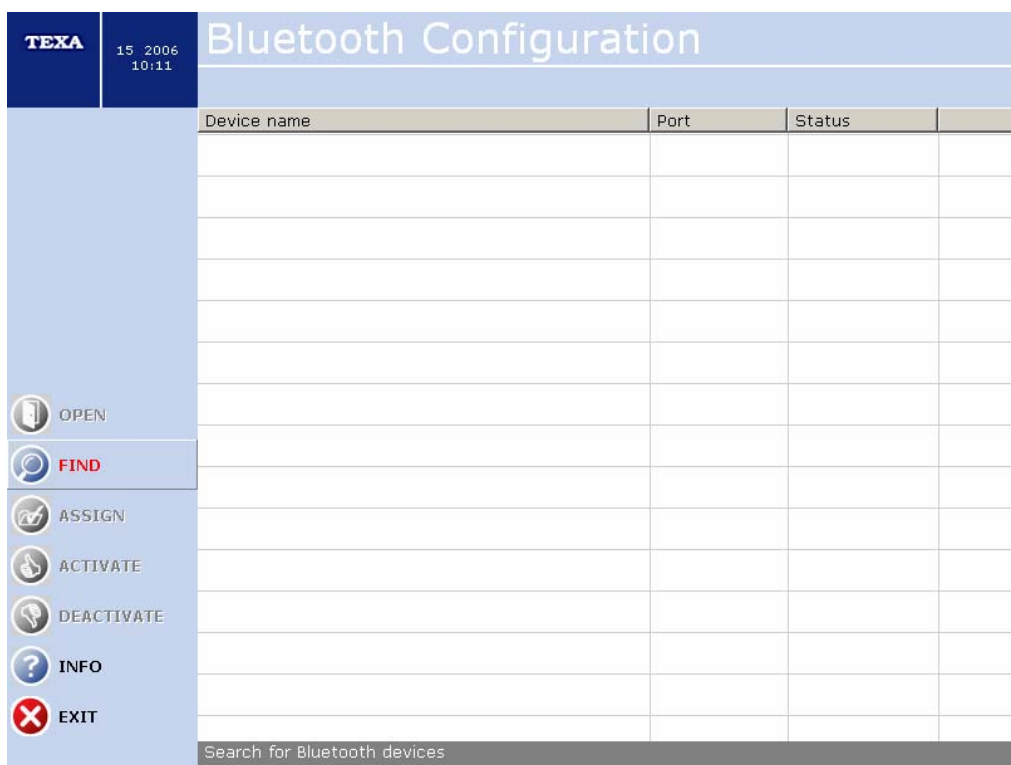
Software Update (function available only for the use of software with Texa Axone 3 Mobile) allows the update to a new version of the IDC3 software. After having checked for the presence of the TEXA DVD, the software proceeds with the start-up of a new IDC3 installation setup.



Program Service allows to access the various service menus of each program.



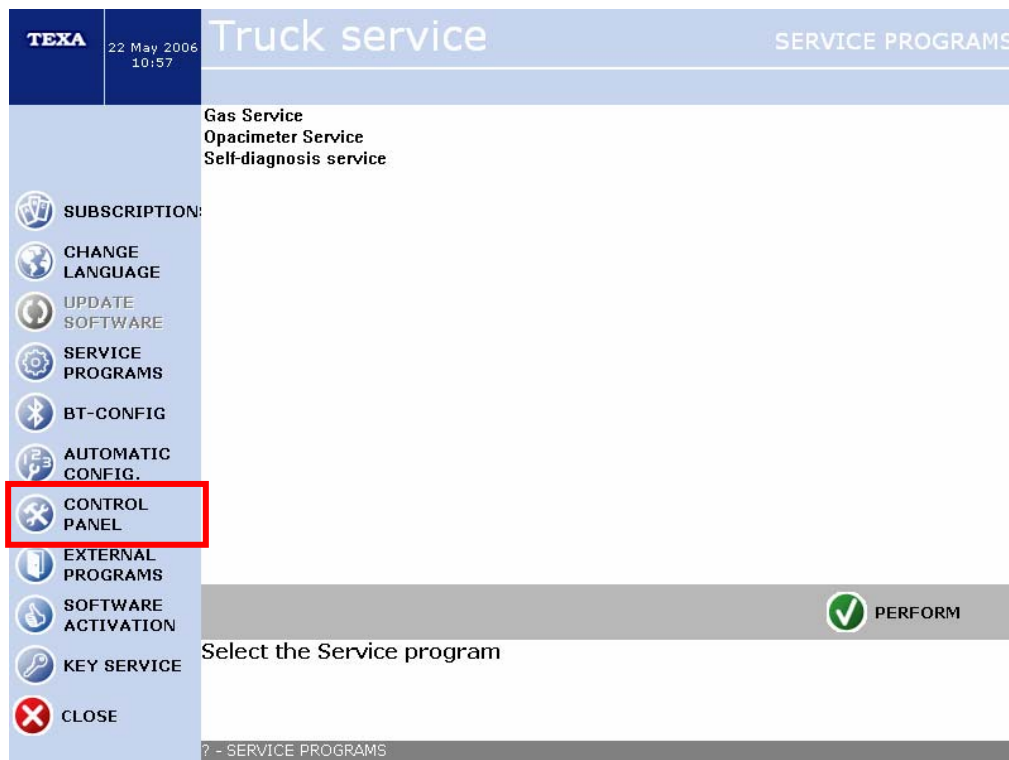
Bt-Config allows to access the configuration program of Texa products with the *Bluetooth* technology.



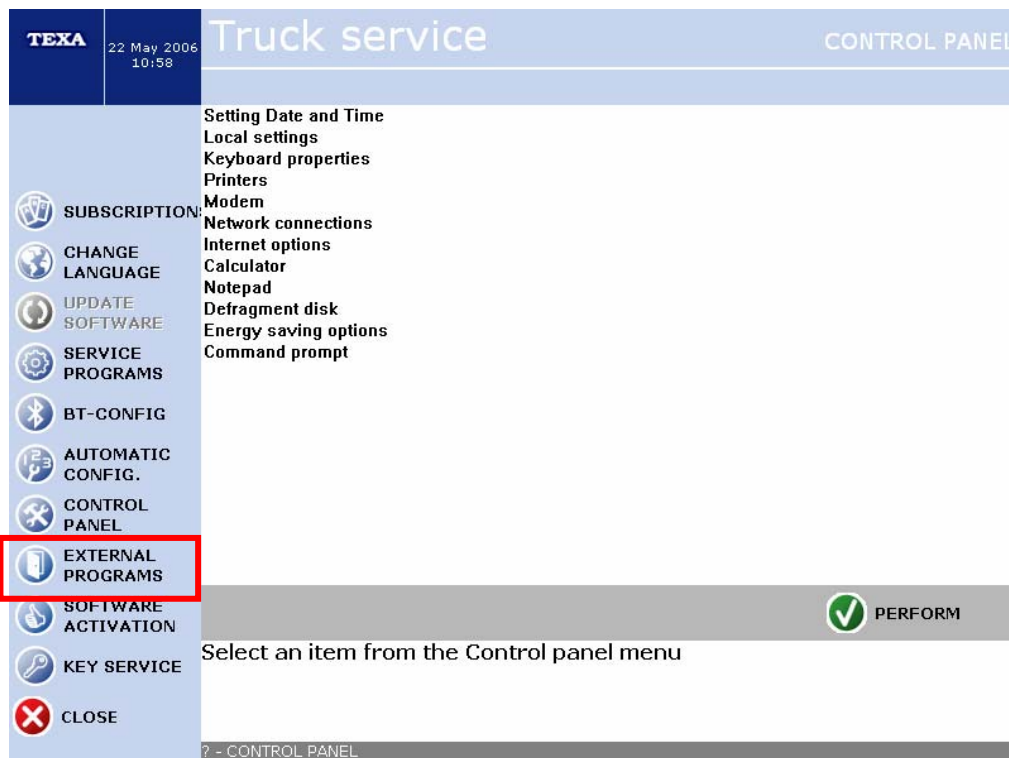
Wizard allows to access the automatic configuration application of Texa tools.



Control Panel allows to access some windows utilities for the system configuration.

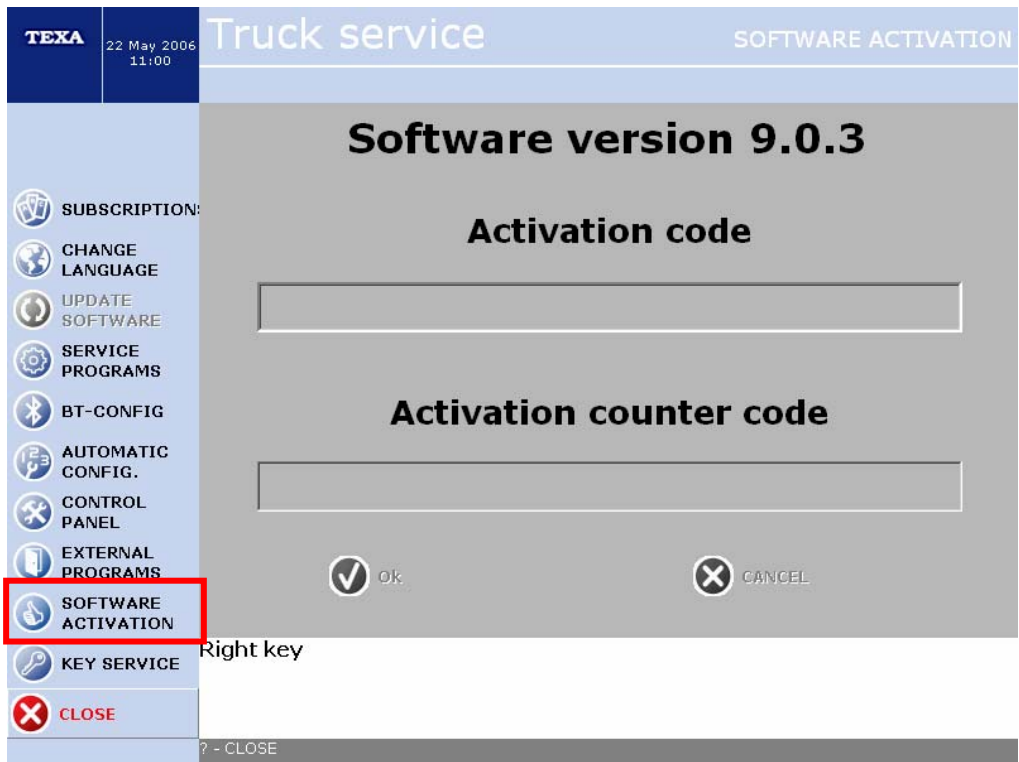


External Programs allows to execute some programs of general utility for the IDC3 program.

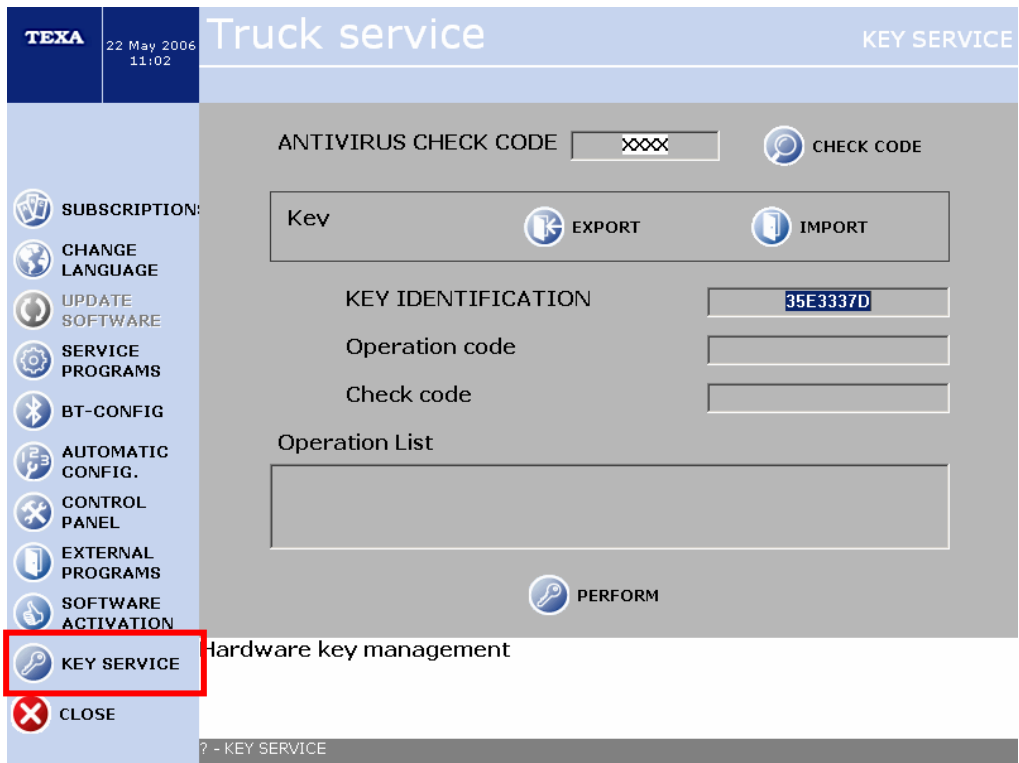


Software Activation: The software version used can be activated by inputting a counter code. This function can be used at the first activation of

the software and at the time of updating the version (updates of the major release).

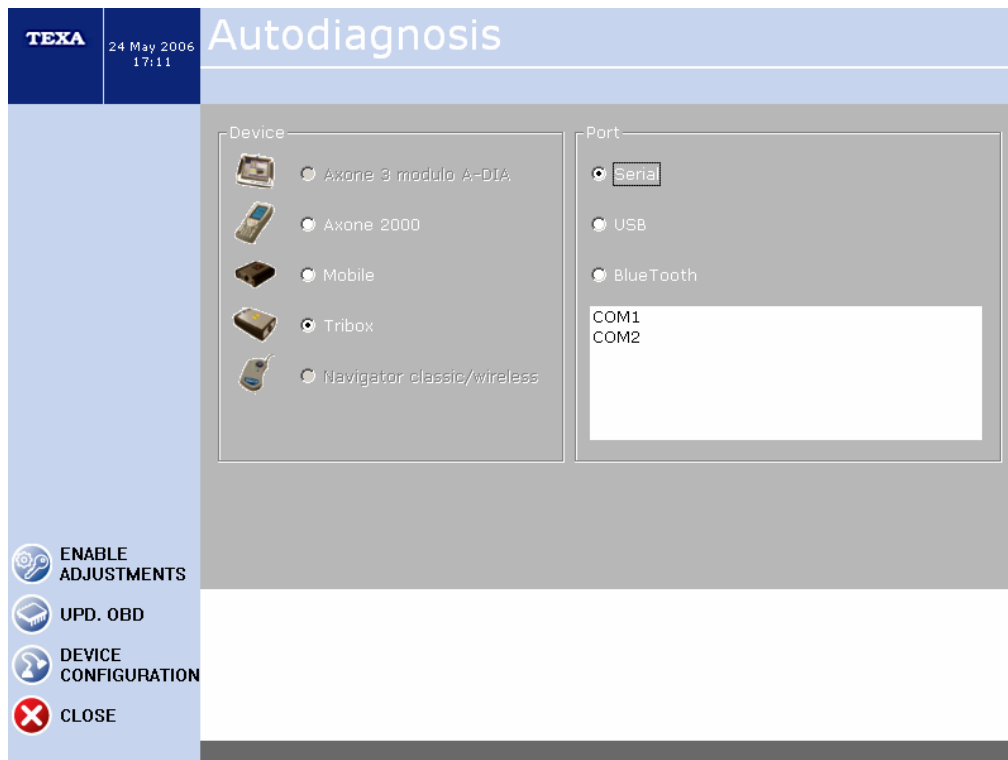


Key Service is a service allowing the remote management of the protection system of the tool.



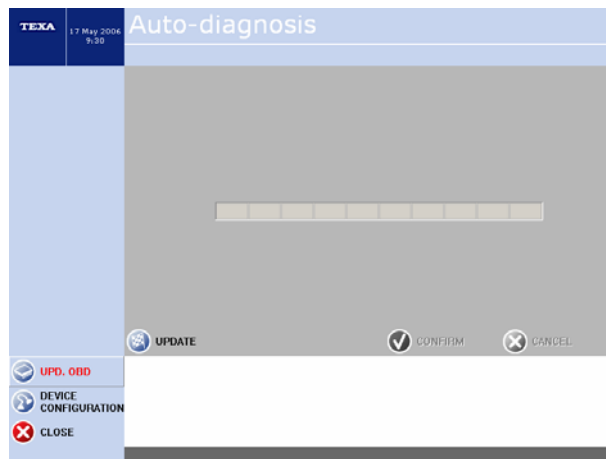
10 AUTODIAGNOSIS SERVICE MENU

To access the “AUTODIAGNOSIS SERVICE MANU” it is necessary, to select Service Programs and then Autodiagnosis Service, from IDC3 Service application:

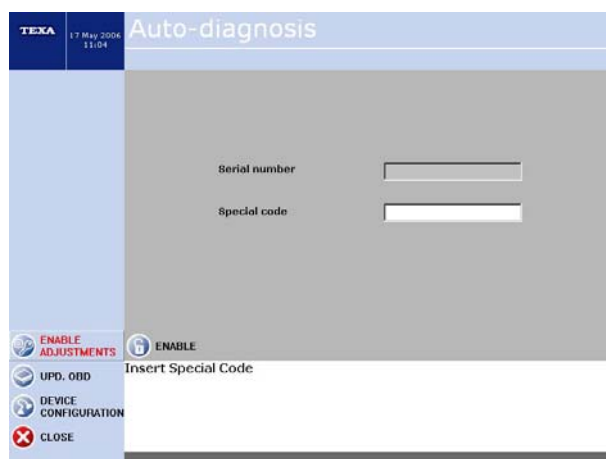
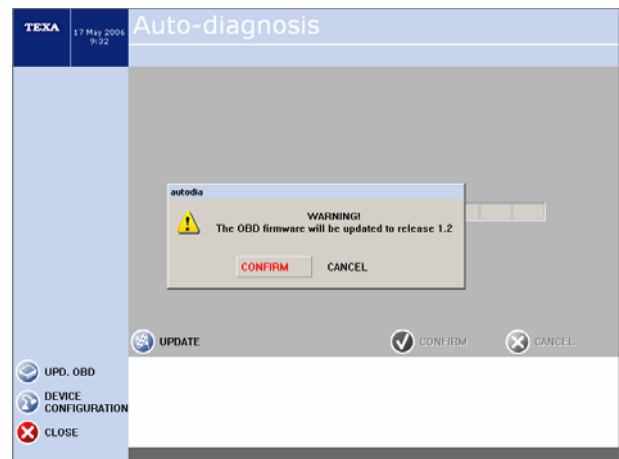
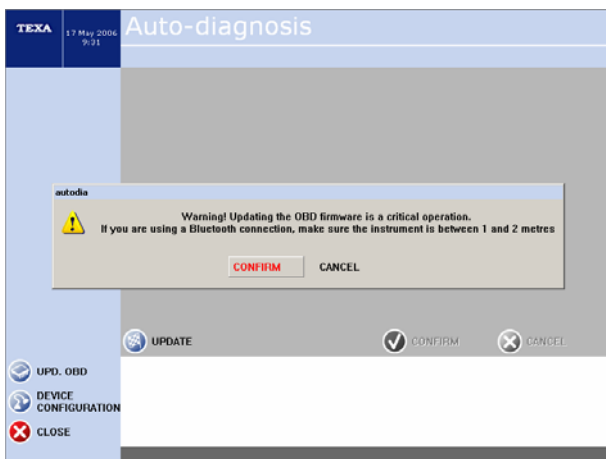


The “AUTODIAGNOSIS SERVICE MENU” allows to select the type of HW device used for the autodiagnosis, the type of link that one wants to use for the autodiagnosis (Serial, USB, *Bluetooth*) and finally the number of the COM used for the communication between the Pc/Axone3Mobile display unit and the Texa operational unit (Nav, Mobile, TriBox...).

This type of configuration can be automatically performed using the Wizard function which can always be consulted from IDC3 Service / Automatic Configuration.



The “OBD Update” functions allows to update the OBD firmware of the selected tool.



The “Regulation Authorizations” function allows authorization of the special functions requesting an absolute and detailed knowledge for their use. For security and responsibility reasons, it is protected by a second-level unlock code called “SPECIAL CODE”.

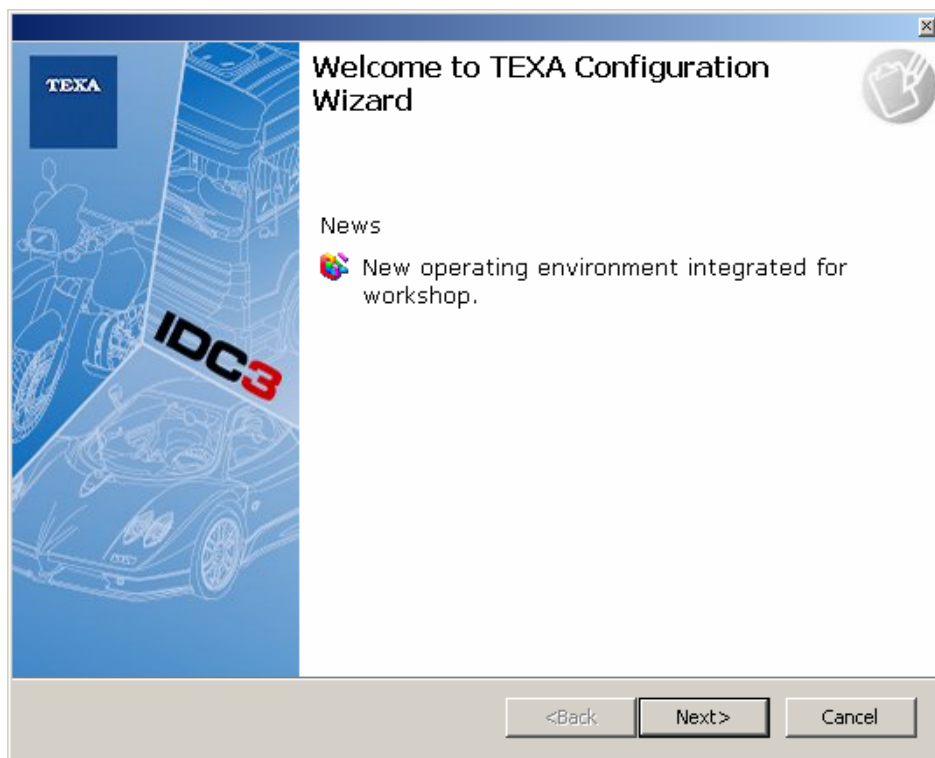
11 CONFIGURATION MENU

To guarantee a high flexibility in the management of the configuration of the various TEXA products, a special application for providing guidance to the user during all the IDC3 package configuration phase has been created.

The checks present in the bottom of the dialog boxes allow user to go forward and back in the configuration at any moment, so that corrections or modifications of eventual choices can be made by the user.

The application gets automatically started up at the end of the first IDC3 installation and manually from the **IDC3 Service / Automatic Configuration** application every time one wants to change the setups of his work environment.

The software interacts with the user displaying a series of frames which can be easily interpreted.



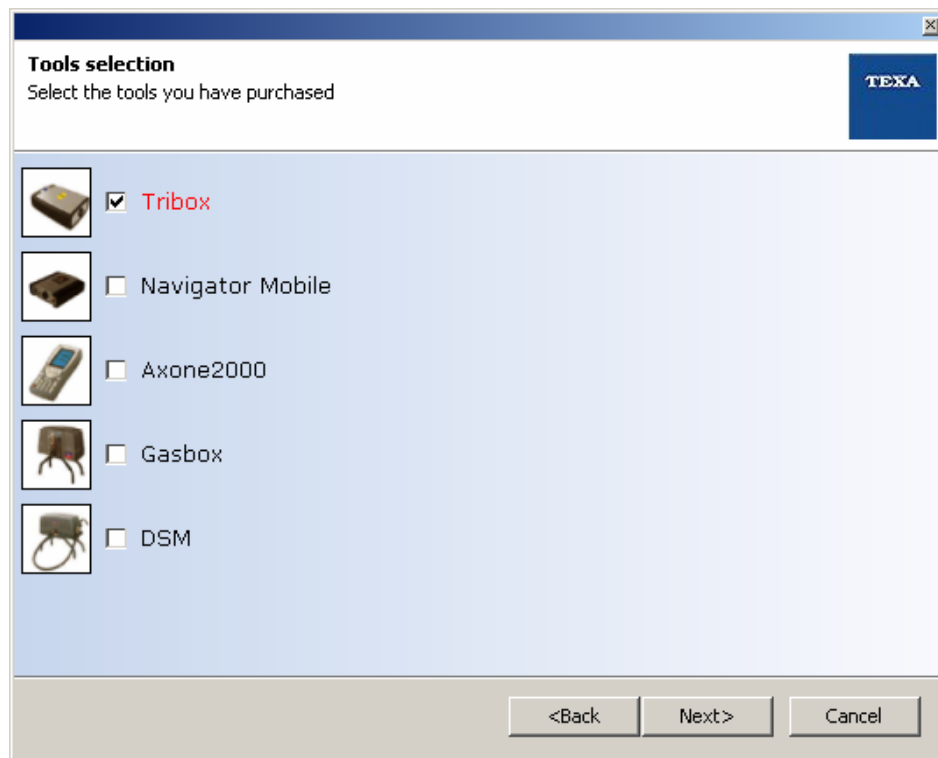
11.1 General Data Configuration

The screenshot shows a software window titled "Personal information" with a subtitle "Enter the requested information" and a "TEXA" logo in the top right corner. The window contains several input fields for company data. The fields are organized as follows:

- *Legal name: Texa S.p.A.
- *Address: Via 1° Maggio
- *Street number: 9
- *Post cod: 31050
- *Town: Monastier
- *Province: Treviso
- *Status: Italia (dropdown menu)
- Phone: (empty field)
- Mobile ph: (empty field)
- FAX: (empty field)
- E-Mail: (empty field)
- Logo: ... Preview
- Footer: ... Preview

At the bottom of the window, there are three buttons: "<Back", "Next>", and "Cancel".

After the input of the reference data, the selection of available Texa tools is requested.

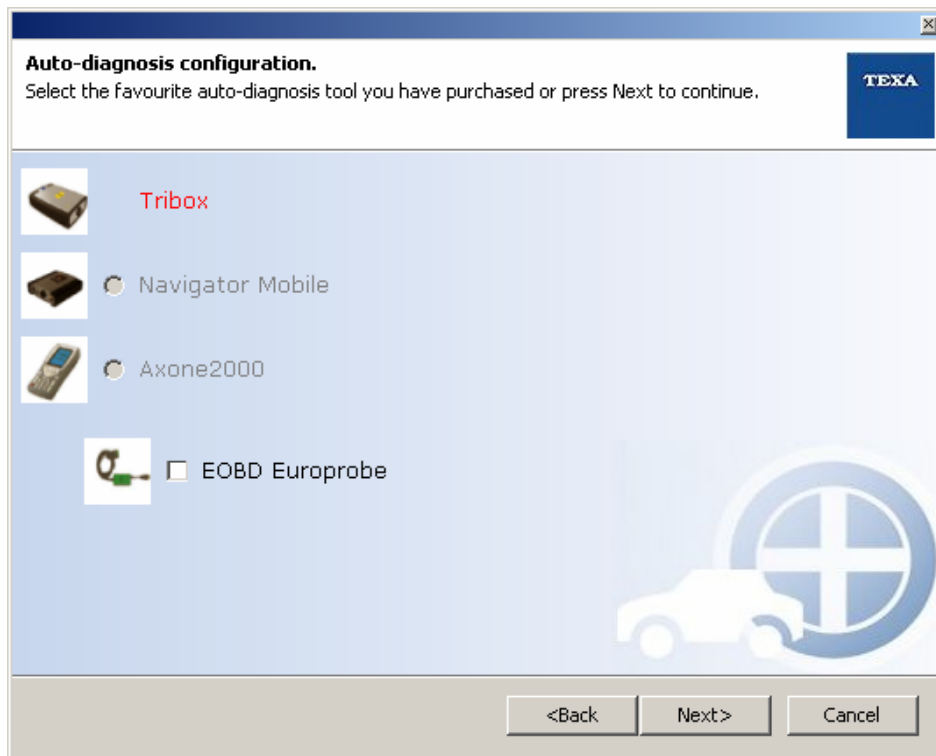


Depending on the selected tools, the software will show a series of pages which are necessary for the correct configuration of the IDC3.

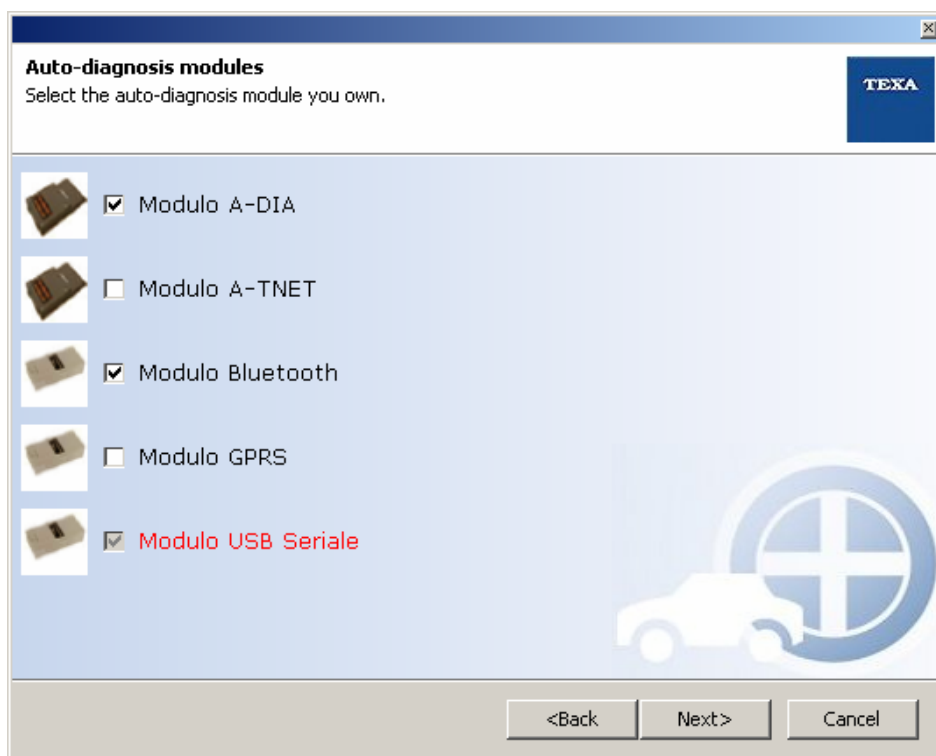
What is shown in the following paragraphs is an example of configuration for performing a diagnosis from Axone3 Mobile connected via Bluetooth with TRIBOX [A-DIA module] and an analogical measure from Axone Mobile using the internal module A-ACQ2.

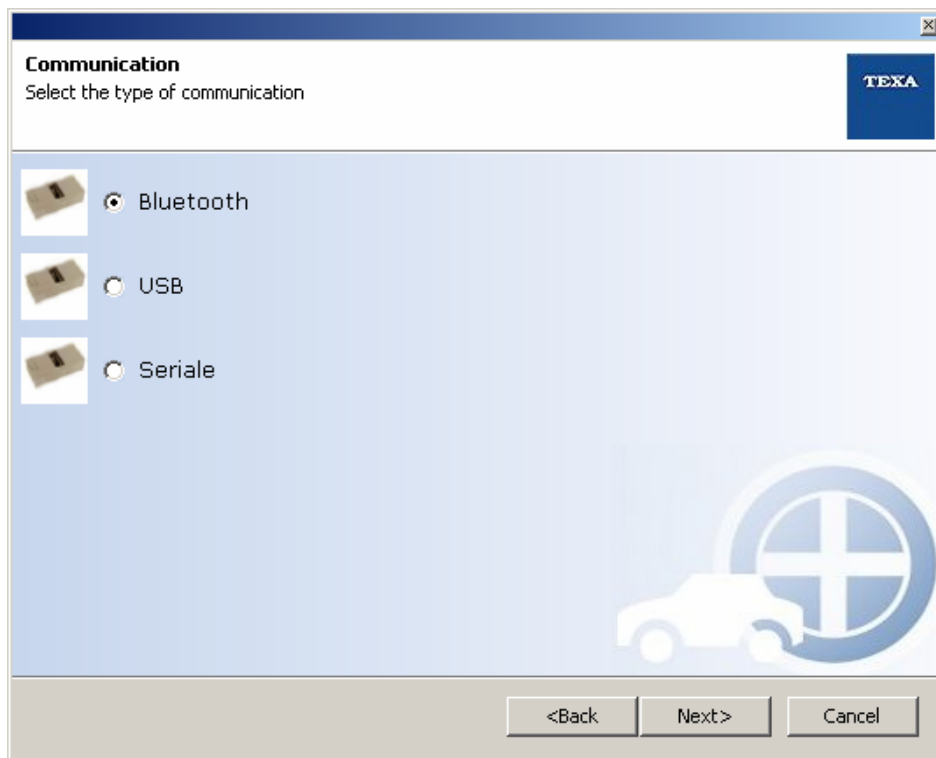
11.2 AUTODIAGNOSIS software configuration

During this phase you are required to select the tool to be used for the autodiagnosis operations.

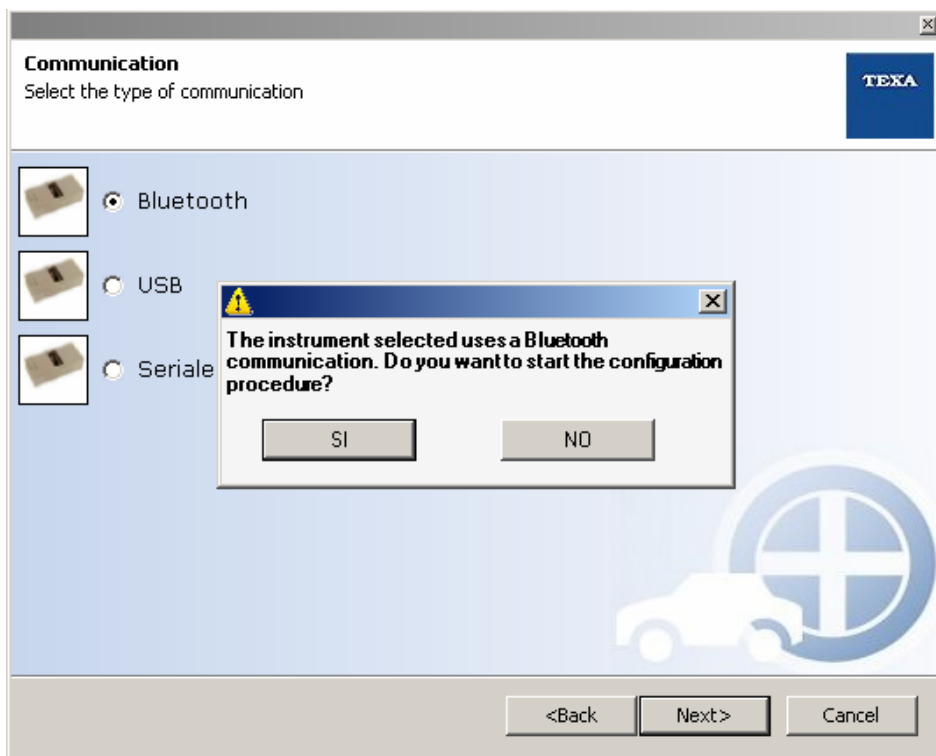


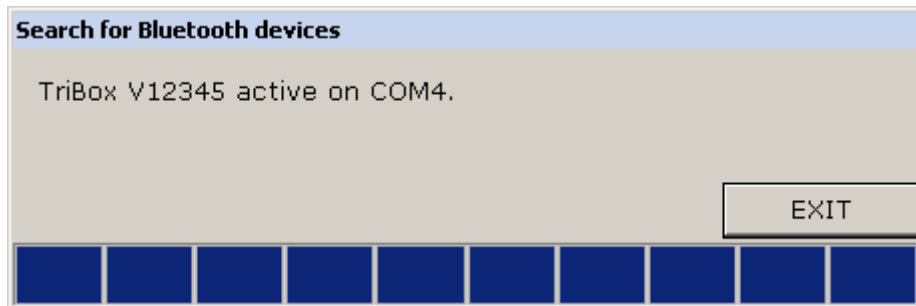
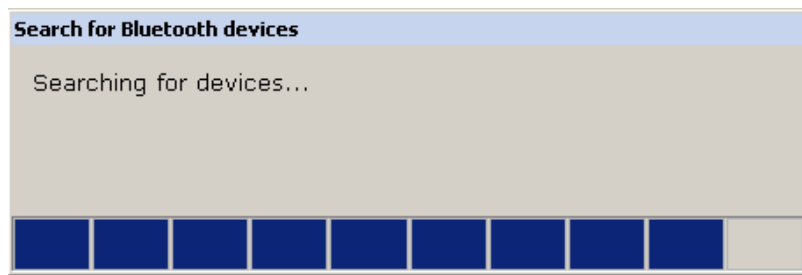
In this example, having selected the TRIBOX, the software also automatically asks for both the operational and communication modules which are available for executing the autodiagnosis.



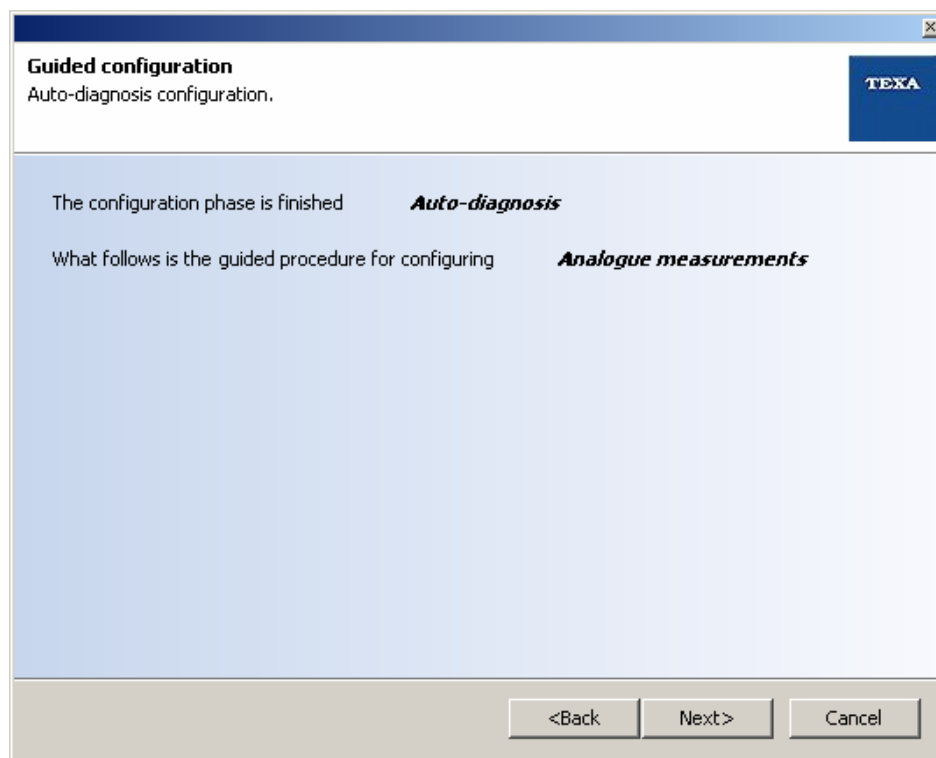


If the kind of communication is Bluetooth, then the shown communication is the automatic one from the Texa wireless configuration communication

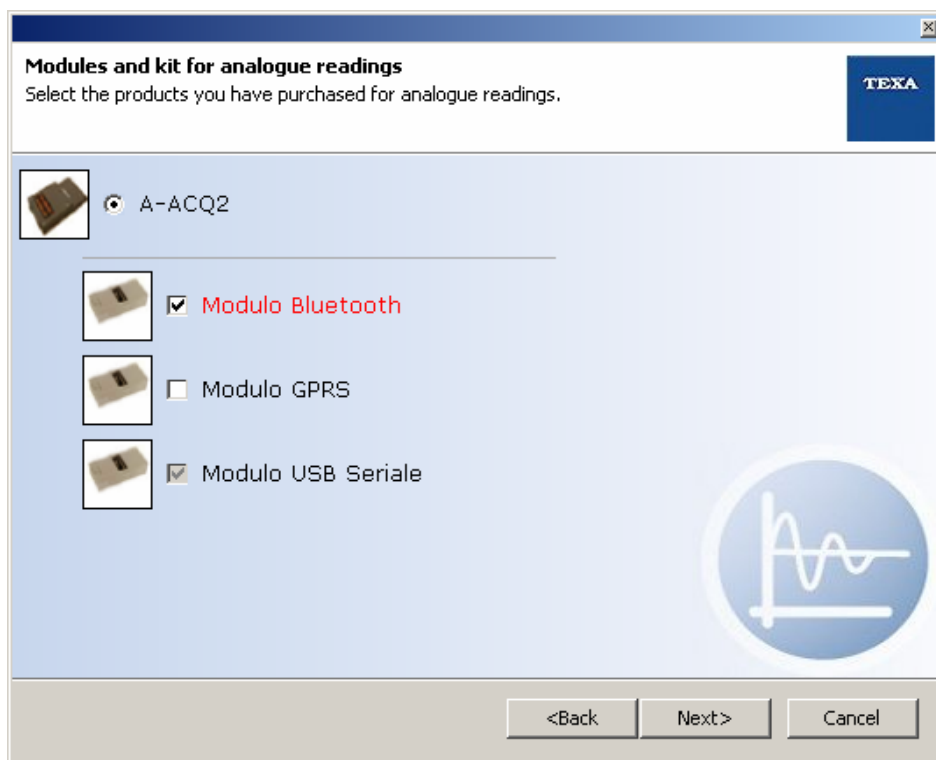
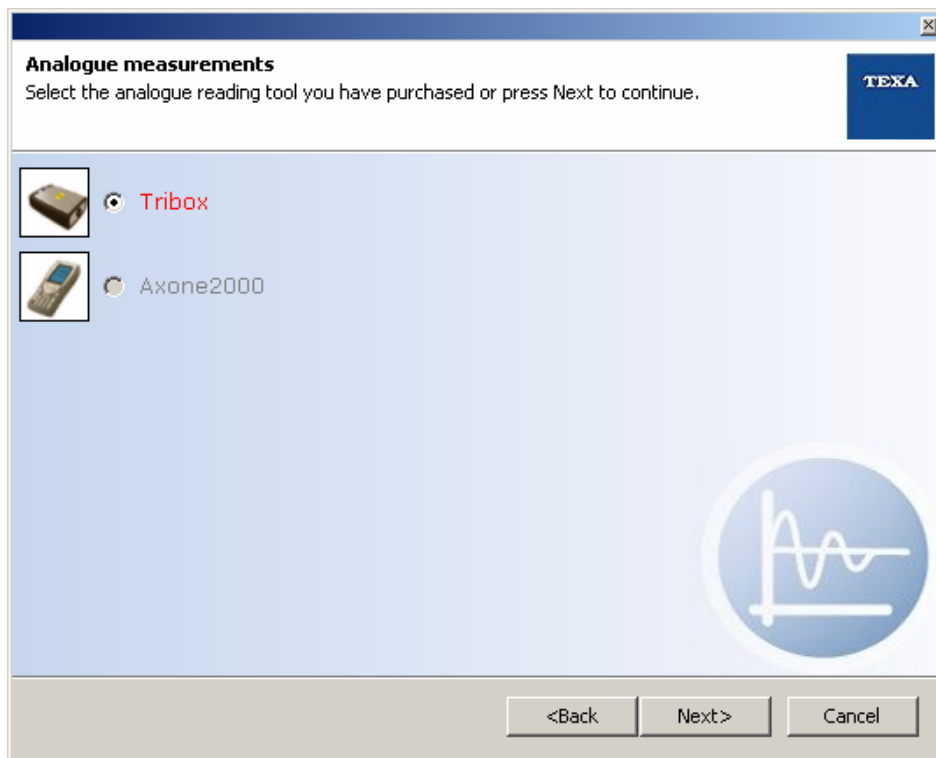




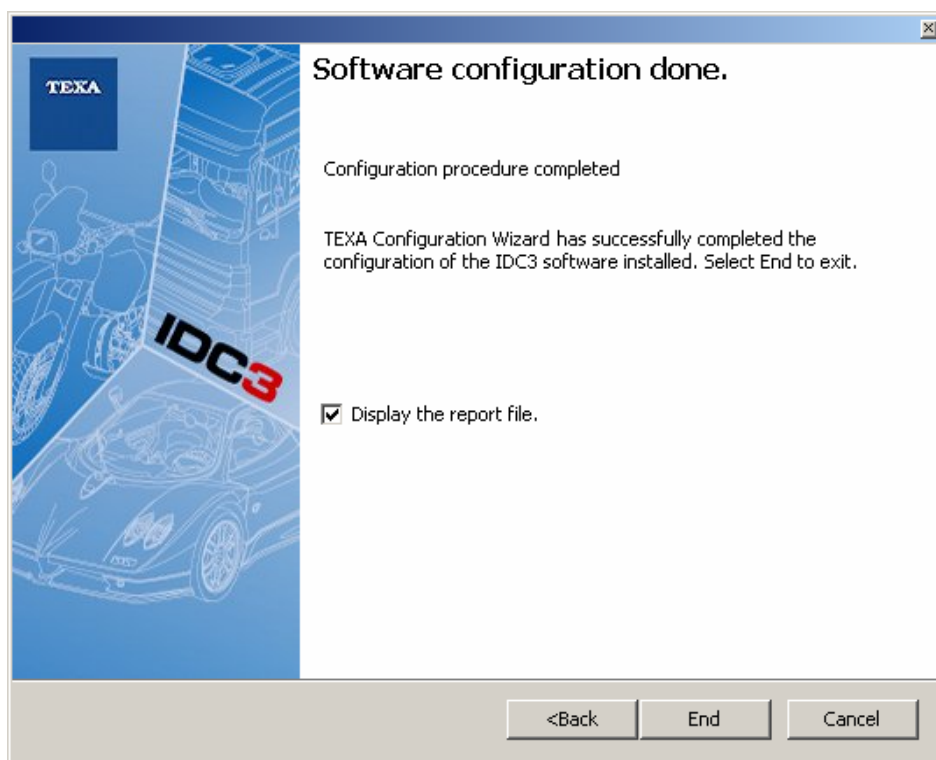
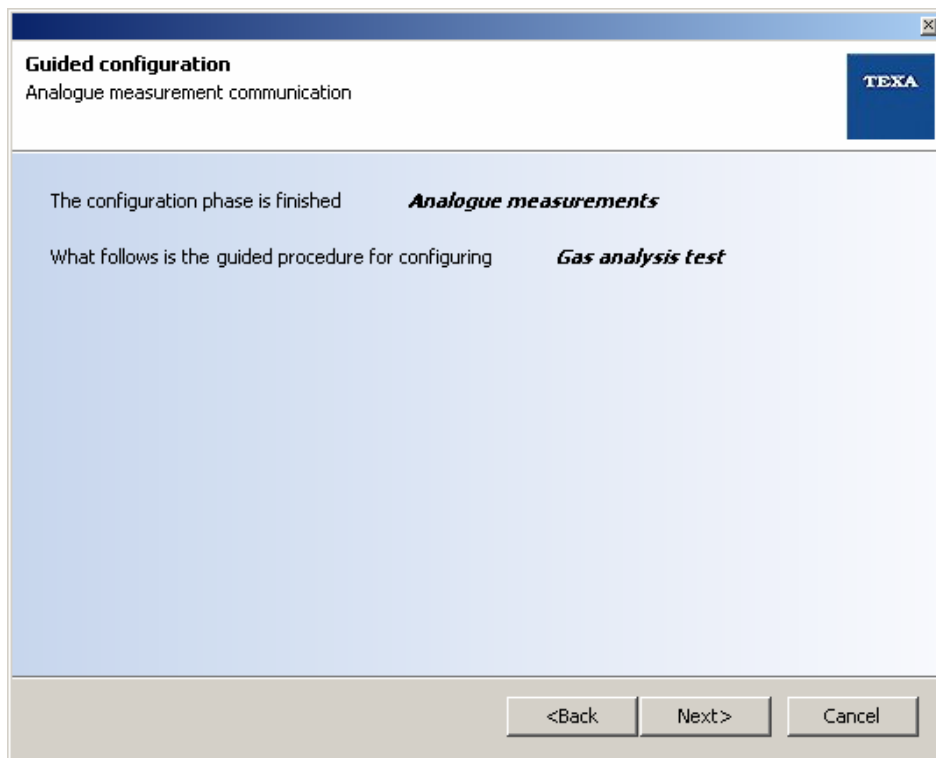
in the configuration file of the autodiagnosis software, The right COM is automatically set.



Now, we show the ANALOGICAL MEASURE configuration; because both the AXONE 3 Mobile and the TRIBOX, support the ACQ MODULE.



The COM to be used is not requested because in this example the communication has been set by default internal module connected to the communication port COM 1



Once the configuration procedure is completed, you can see a synthesis page displaying all the settings that have been recently carried out.

TEXA - Printer Center

 **Print**  **Close**

IDC3 SOFTWARE CONFIGURATION

Personal platform

Platform: PC

Language configuration

Language: Inglese (Regno Unito)

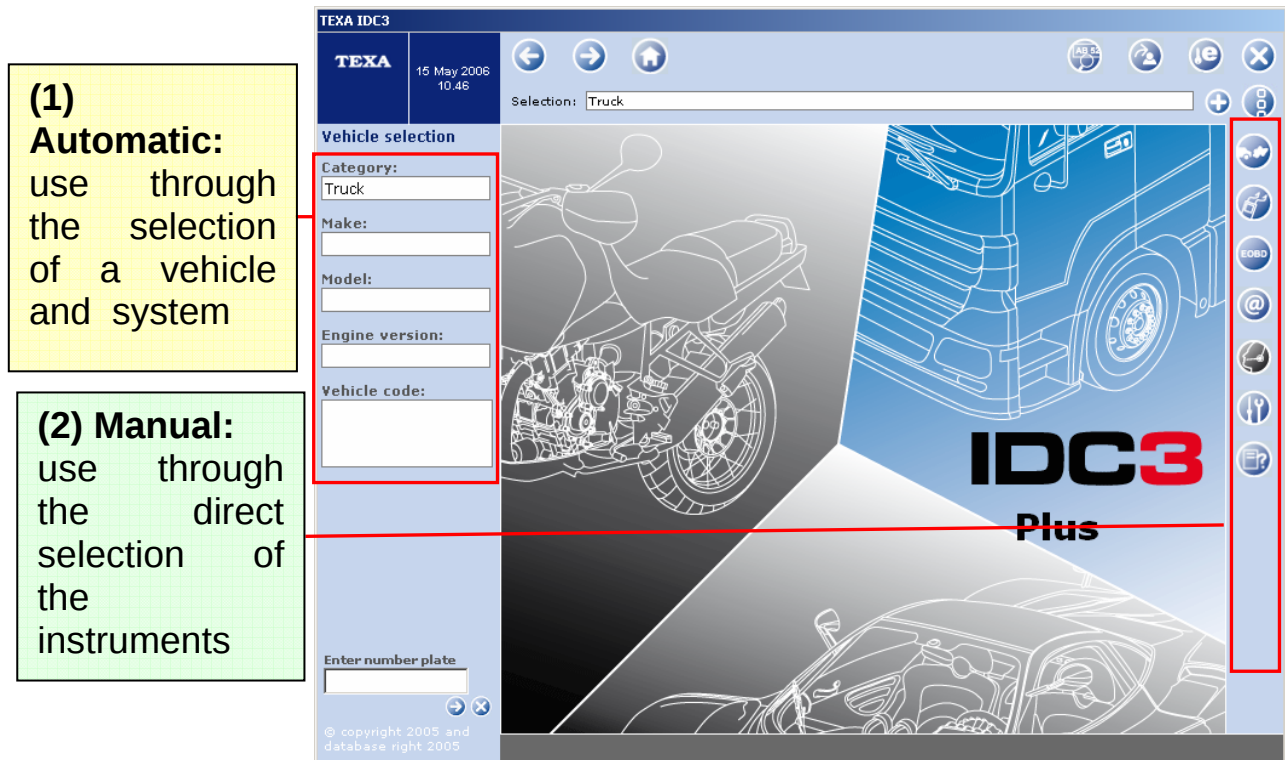
Customer Information

Legal name: TEXA S.P.A.
Address: VIA 1° MAGGIO
Street number: 9
Post code: 31050
City: MONASTIER
Province: TREVISO
State: Italia
Phone:
Mobile phone:
Fax:
Email:

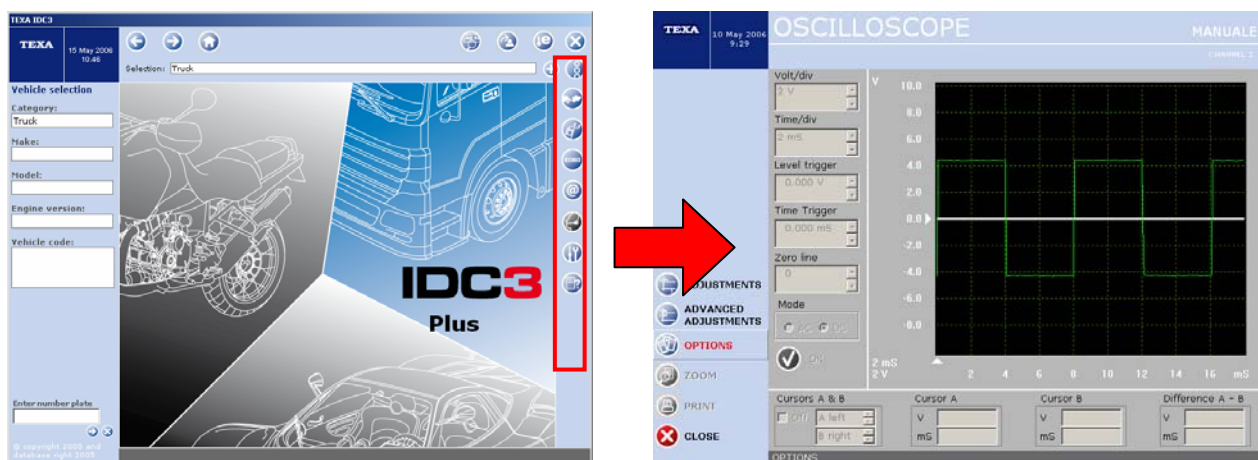
12 OSCILLOSCOPE

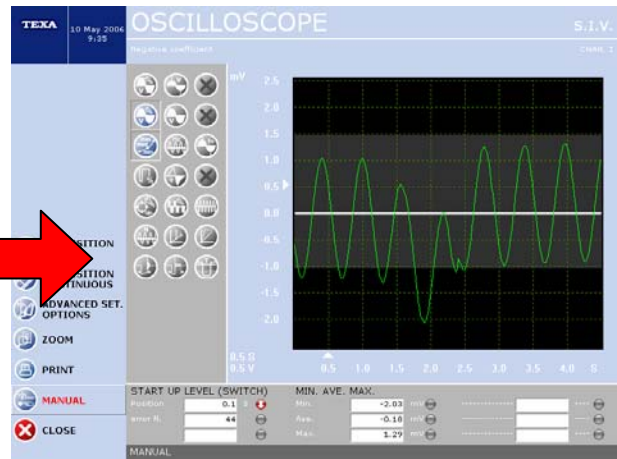
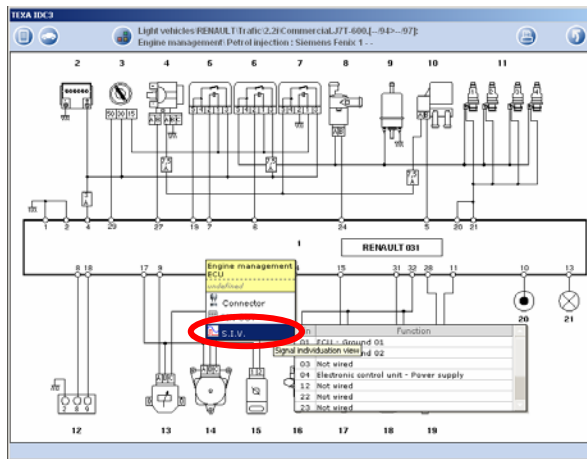
The Oscilloscope program can be launched in two different modes.

- **Automatic mode** (with S.I.V. function, test about the signal information)
- **Manual mode**



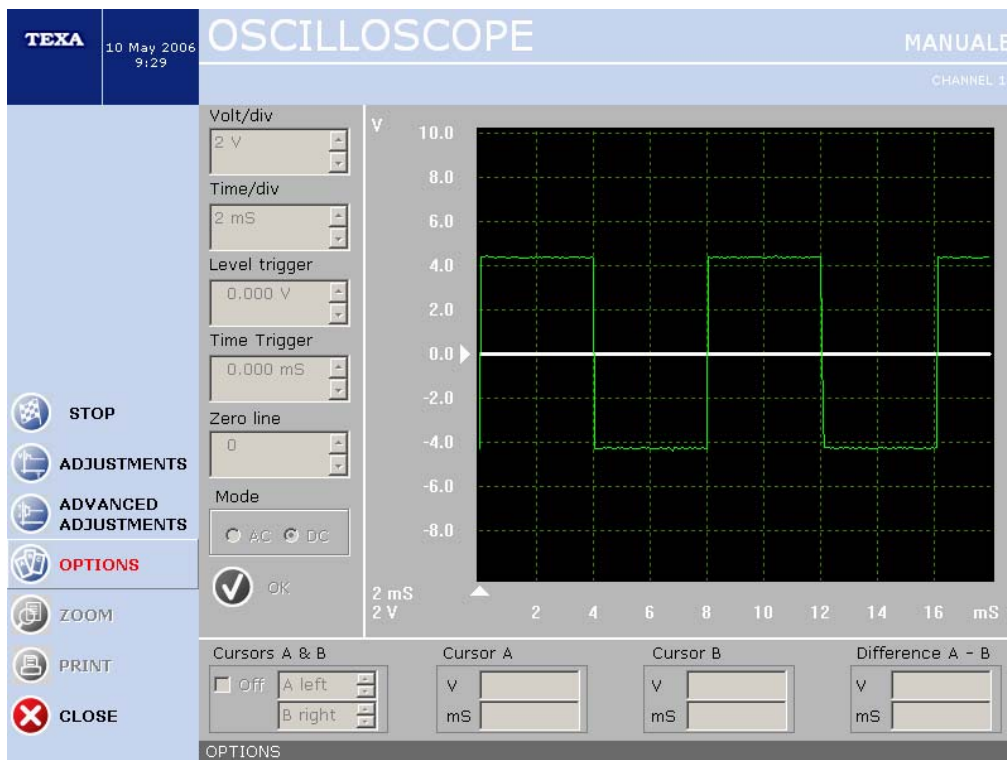
When The software works in **manual mode** it is automatically launched by the toolbar in the main page (2) as far as automatic mode is concerned, the software will be launched from the device menu selected from the wiring diagram.



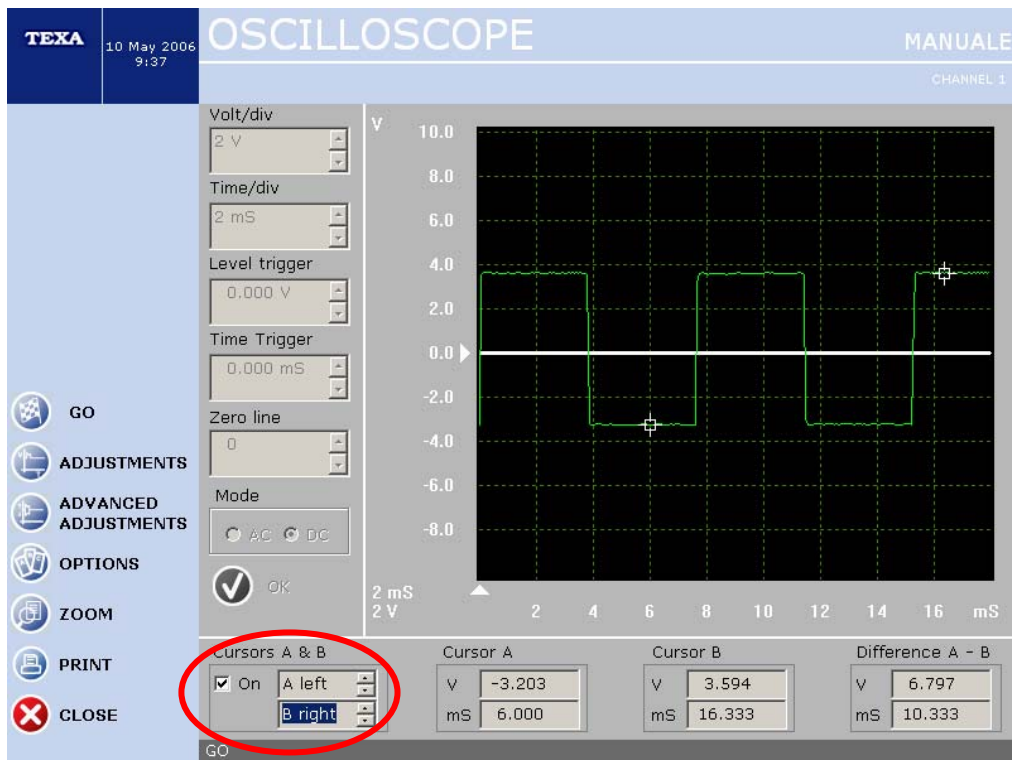


12.1 Manual Function

This function allows manually setting the tool for executing the oscillographic tests, it will be then necessary to select the values from the measurement scale depending on the type of signal to be visualized.



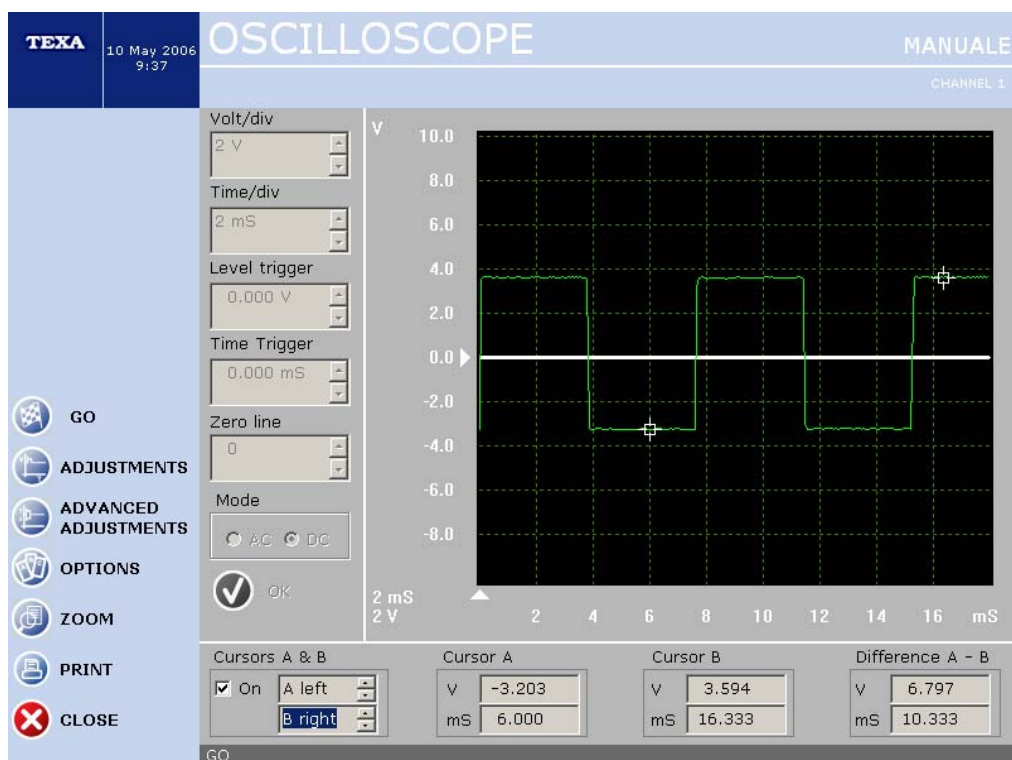
this is done (before performing any test) by selecting the button "REGULATION"



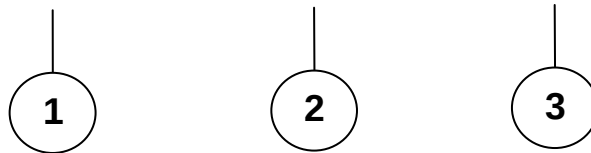
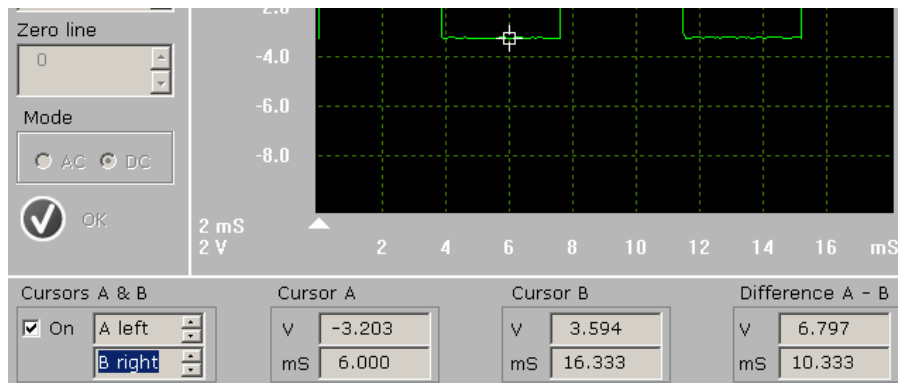
It will be then possible to operate in the various fields (Volt/div and T/div) for correctly setting the instrument. In order to modify the parameters go to the concerned field and use the arrow key.

Once the preparation of the instrument is completed, you have to select the button OK. You will then exit from the setting automatic mode by saving the performed choices.

By blocking the capture with the ALT button and selecting the appropriate box On/Off, it is possible to enable the field "cursor A and B".



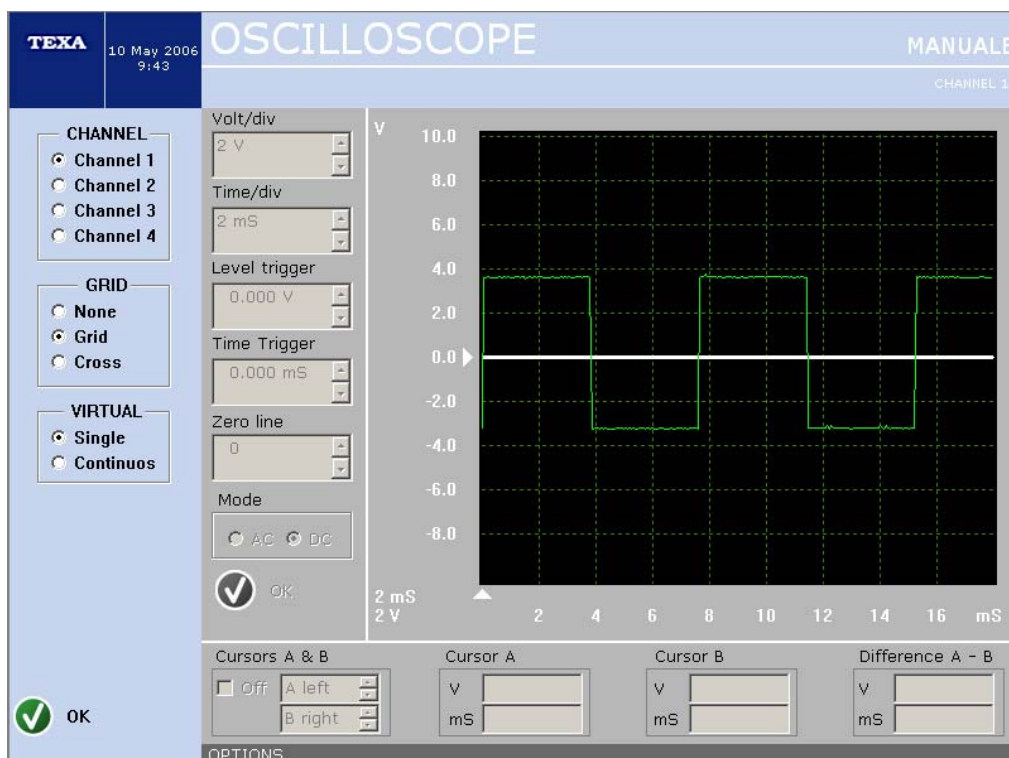
With the active cursor it is possible to limit the visualized signal, through two cross cursors automatically "hooked" to the signal; by acting on the arrow key, it will be possible to place the active cursor for limiting the visualized signal at that moment.



During this operation, the reading values of voltage and time related to the curb point highlighted by the two cursors will be visible instantly.

In window 1 you will read the values of the cursor A, in the window 2 you will read the value of the cursor B, the difference between the time and voltage value of the point A and point B will be shown as absolute value in window 3.

Moreover It is possible to use the button “ADVANCED REGULATIONS” for enabling a menu allowing access to other possible setting of the instrument.



The active settings in the menu “advanced Regulations” allow the user to set the following parameters:

TYPE TRIGGER: As we already know, the trigger prepares the way to stabilize the visualization of the wave/signal shape on the display, there are three possible types of choices:

Internal, in this case the synchronism can be regulated in amplitude and in position by acting on the “trigger level” and “trigger time” windows of the setting menu.

External; used by particular applications only

Manual, the operator decides when performing the data capture by pressing the SUBMIT button. The selection is simply performed by the arrow keys on the synchronism desired row and by pressing the key SUBMIT

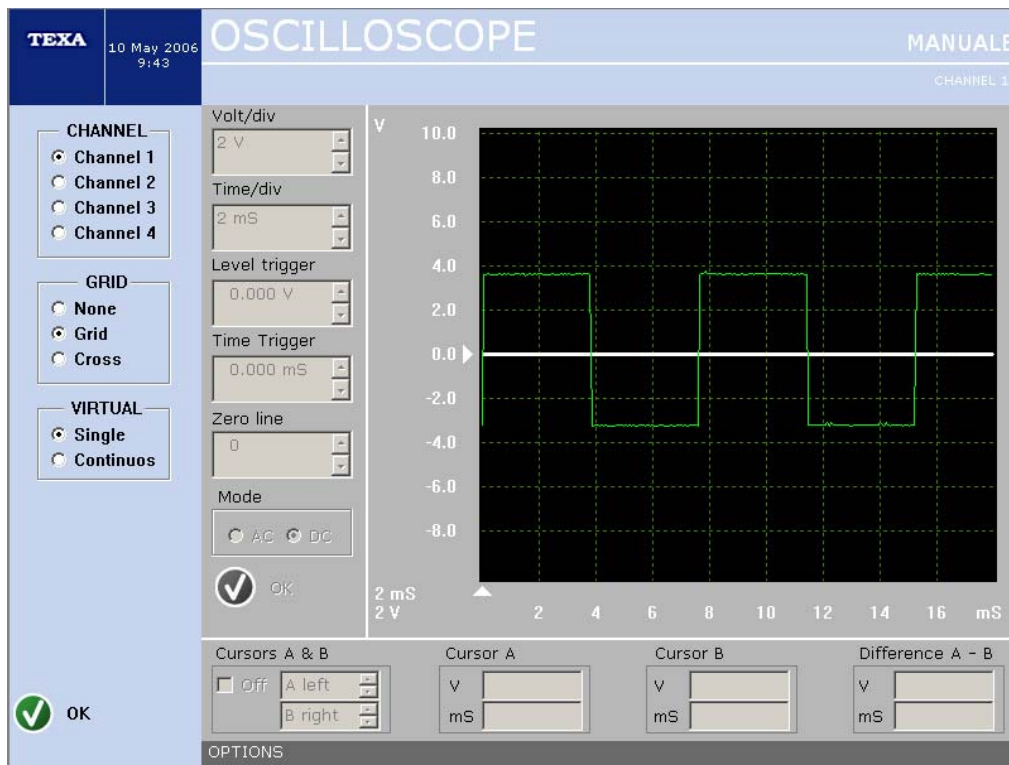
TRIGGER MODE: In normal mode the data capture is single and it is performed when the trigger levels are verified; in automatic mode the data capture is continuous and always within the trigger limits.

FRONT: it allows the trigger mode connection on the positive or negative front of the shown wave shape.

SIGNAL it gives the choice to reverse the acquired signal wave shape.

“OPTIONS” Button

This function allows setting the following functions Channels, Grille and Virtual.



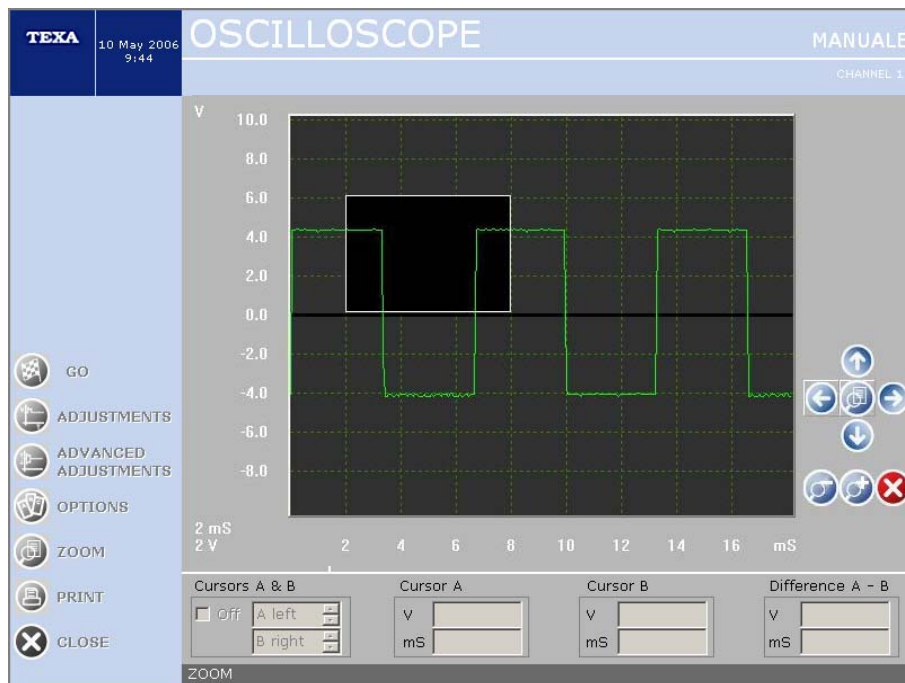
Channels: it is possible to select one of the four entering available channels, this function is also maintained just pressing the keys 1,2,3 and 4.

Grille: it is possible to select the different types of grille and disable it.

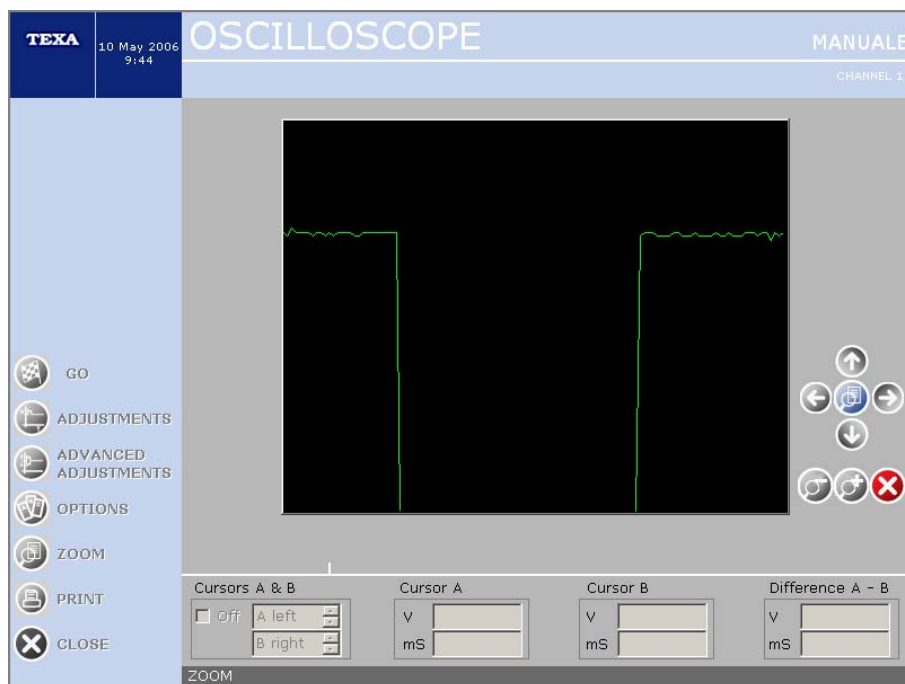
Virtual: for signals using a base of virtual times (higher than s/div, it allows to select the capturing of a single page or of more pages in continuous mode.

12.1.1 Zoom

This function allows performing the enlargement of a portion of the acquired oscillogram. Through the ZOOM button you go in a mode in which you can highlight the oscillogram portion to enlarge.



for removing the selection area one must use the arrow keys, (key + to enlarge and key - to zoom in) by pressing the ZOOM button, the selected part is enlarged.



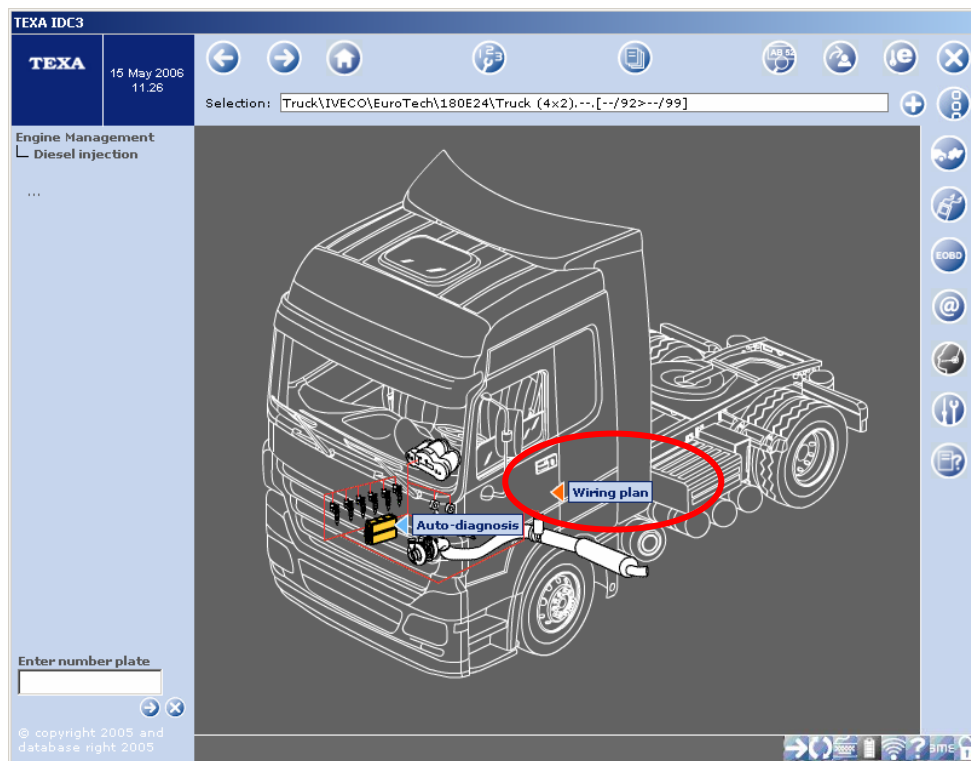
to return to the normal display, please press the exit red key.

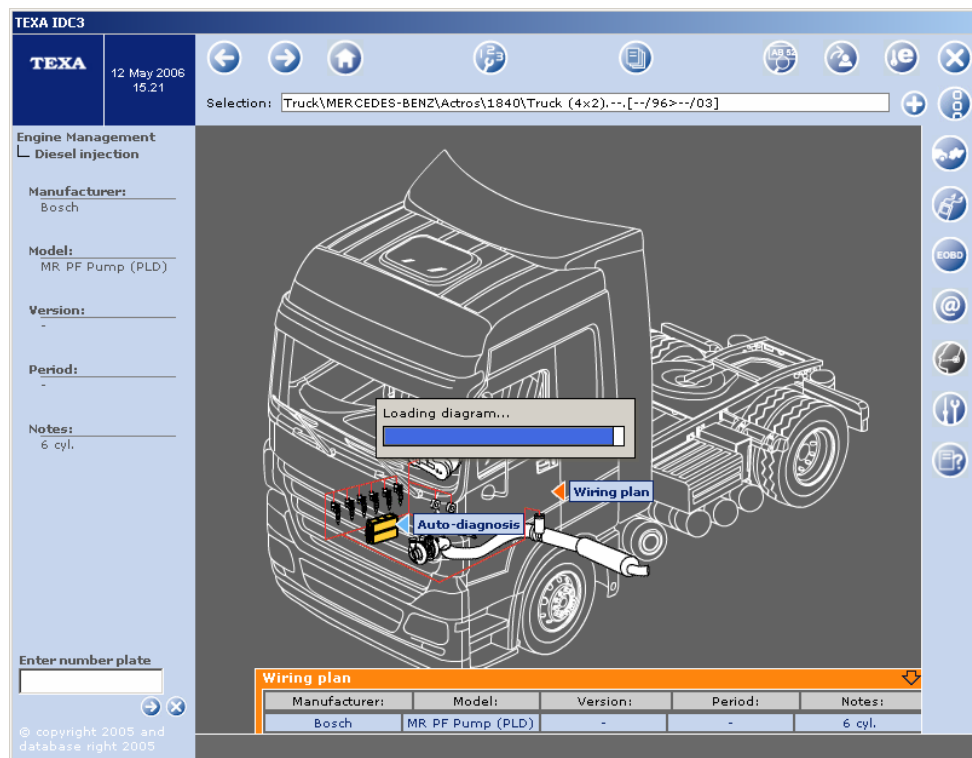
12.1.2 Printing out

The printing out of the acquired oscillogram is performed.

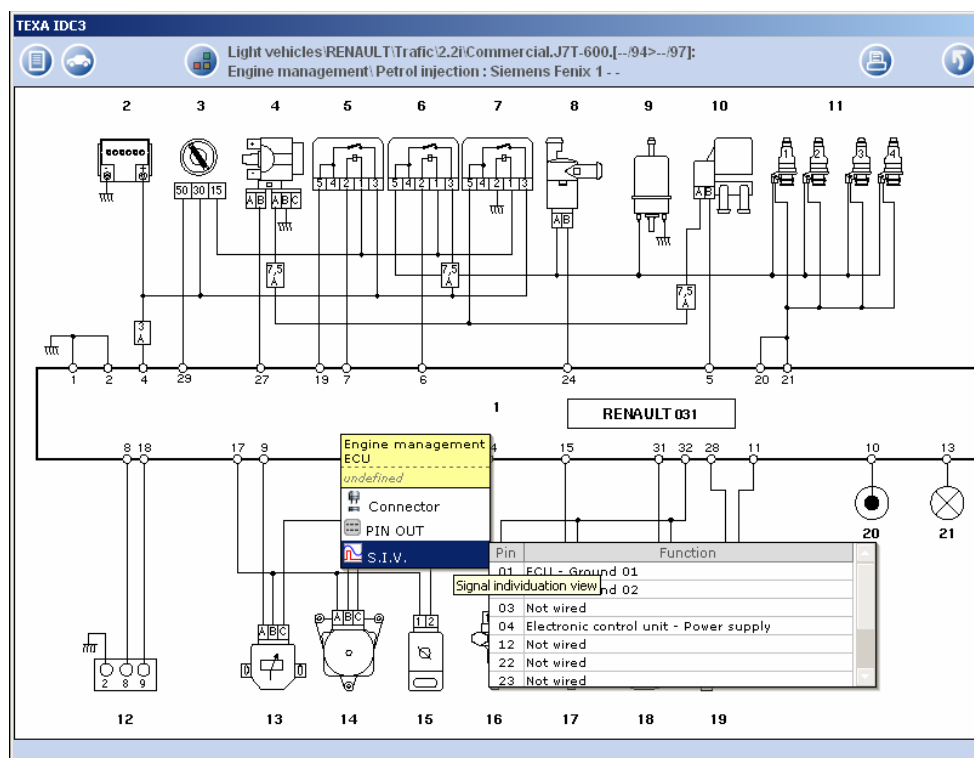
12.2 Automatic Function (S.I.V. test about the signal information)

The automatic function provides access to the oscilloscope starting from the choice of a device in the wiring diagram of the selected vehicle part. Please select “wiring diagram” and then the electronic system for which you need to perform the test:



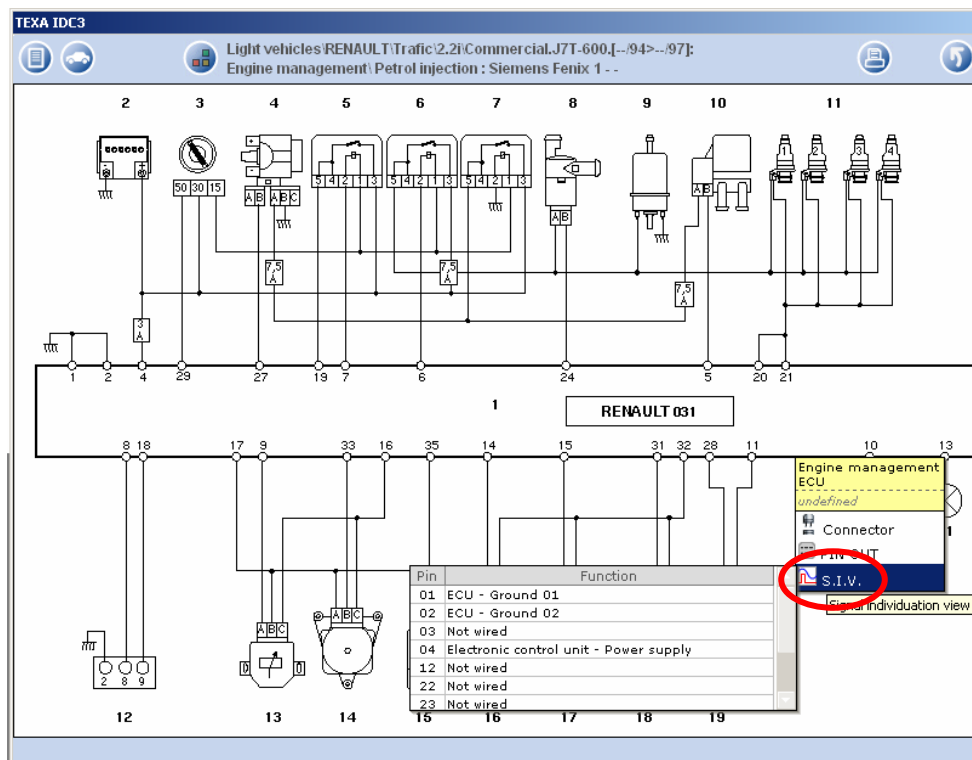


The concerned electronic system selection will recall the visualization of the associated wiring diagram.

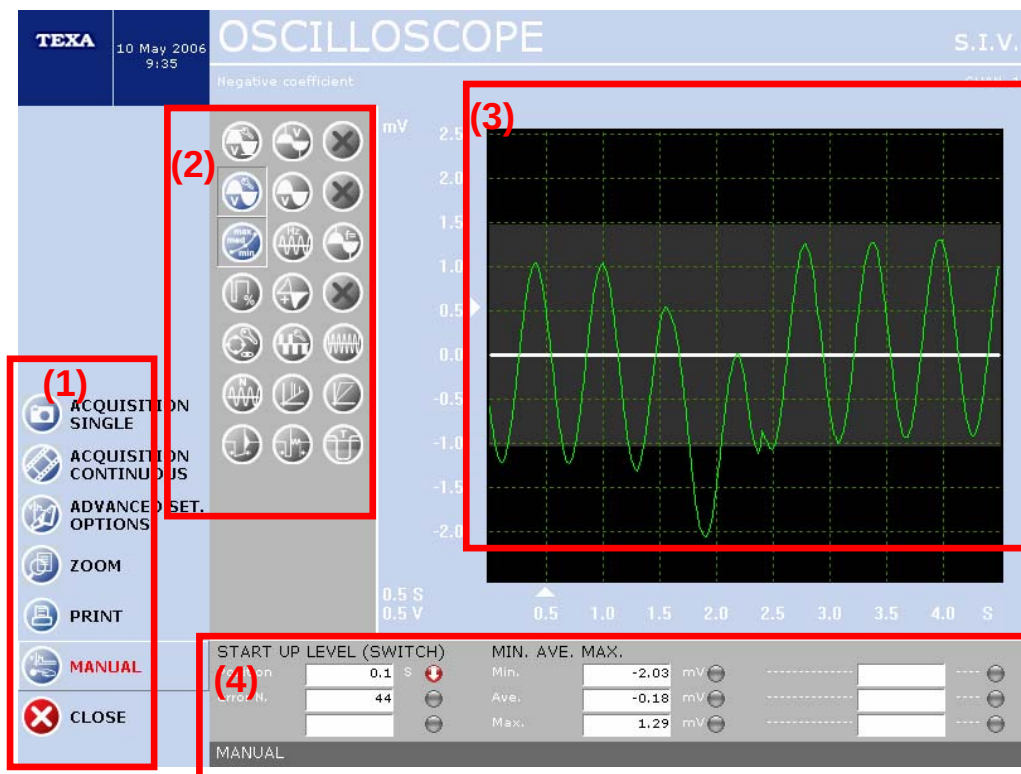


From the diagram we proceed with the device selection. By clicking on the device there appears a window that, in addition to other ones, shows S.I.V. abbreviation (acronym of Signal Information View- analysis on the signal information).

In this way the oscilloscope instrument is recalled.



On the basis of the selected device, the automatic set up of the oscilloscope related to times scales, divisions, trigger and the precision test for the physical information produced by the signal is obtained.



In this page it is possible to see four different areas of work.

The area with the command button (1)

The commands for printing, zoom, regulation (working as already seen in the manual oscilloscope) are available.

The commands: single data capture and continuous data capture allowing start/end of the capture.

The S.I.V. area (2)

It allows to select the S.I.V (Signal Information View) that you want to perform on the signal during the capture phase.

The signal area (3)

During the capture phase, the signal is displayed on the gridded screen.

The results area (4)

There are a series of boxes containing information related to the applied S.I.V : if the signal has no errors, the capture proceeds without blocks and interruptions (the signal is continuously shown). If on the contrary, the acquired signal does not fit the tested requirements, required by the different functions S.I.V., the oscillogram is blocked in the area in which the problem has been found.

12.2.1 Printing out

The printing out of the acquired oscillogram is performed.



In case of communication through the TriBox instrument, the autodiagnosis software must be closed before feeding it.

13 GAS ANALYZER

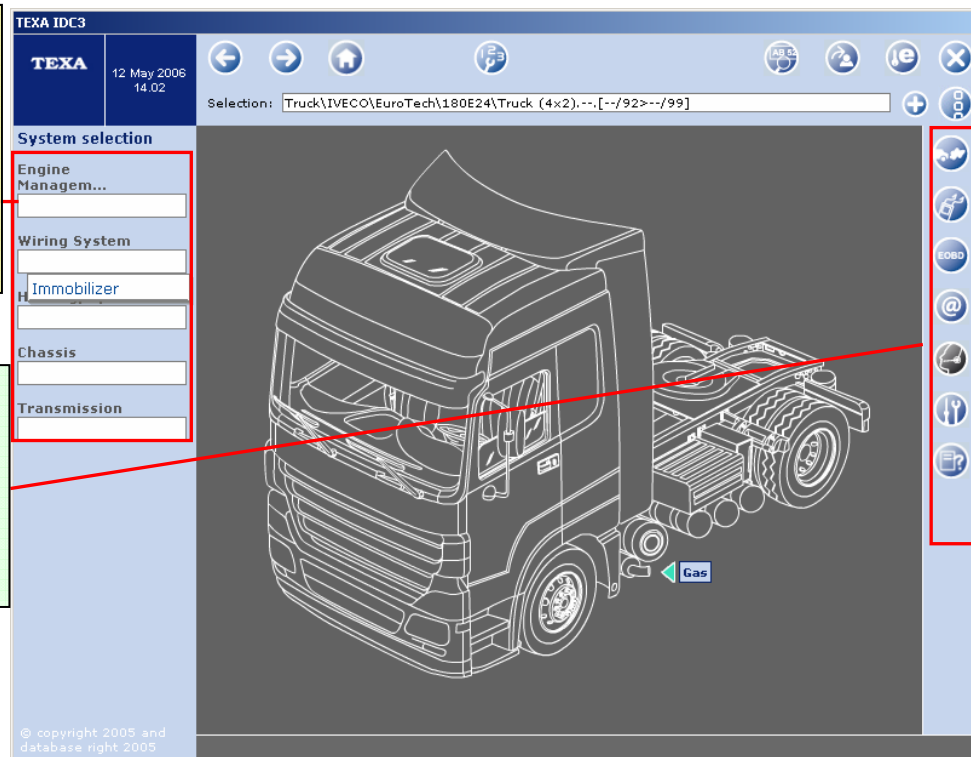
The gas program can be launched in two different modes.

- **Automatic Mode**
- **Manual Mode**

The difference between the two modes is: in case of automatic selection (when necessary) the data for the use of the analyzer are taken from the database. As about the rest, the available tests are the same.

(1) Automatic:
use through
selection of a
vehicle and
system

(2) Manual:
use through the
direct selection
of the
instruments

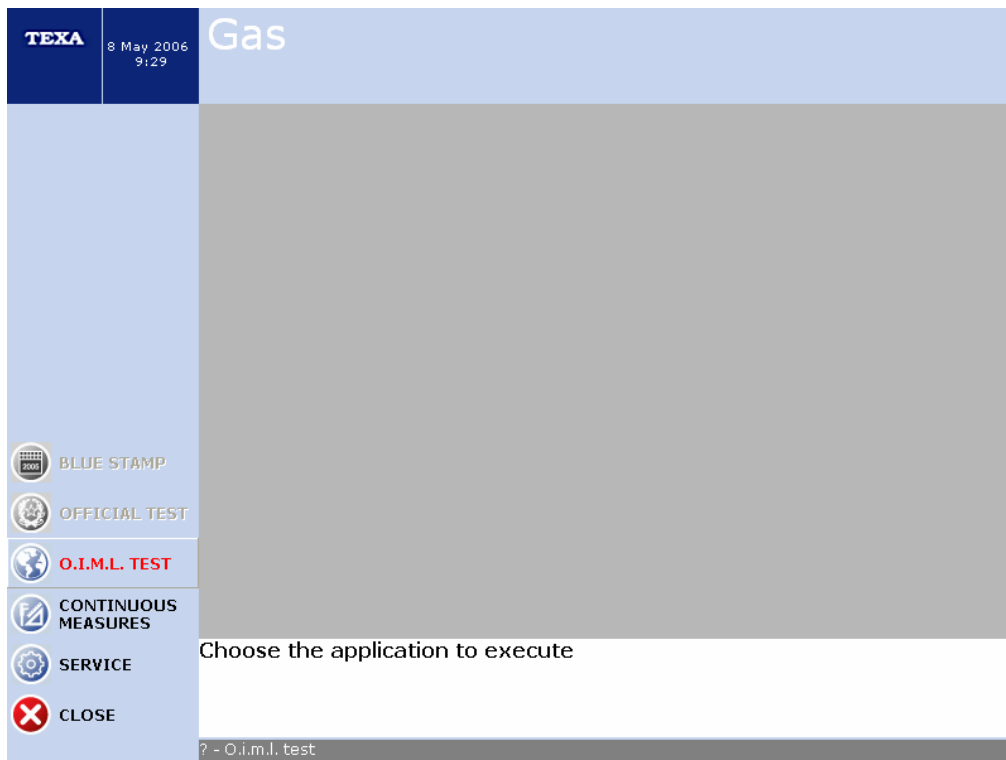


Manual Mode

The following mode allows the use of all functions related to the management of the gas chamber such as Official Test, OIML Test, Emission Conform Vehicle (blue certificate) and Continuous Measure.



In this mode, if the car model to be diagnosed is not indicated, it will not be possible to access the function for saving the performed tests. However, after having performed the test, it will be possible to manually enter the vehicle identity data and the data of the owner as well, only for the printing out the results.



Automatic mode

You can access this mode after having selected the trademark, the model and the type of engine specification of the vehicle to be checked; you will then be able to start all functionalities related the management of the gas chamber such as Official Test, OIML Test, Emission Conform Vehicle (blue certificate) and continuous measure).

In this mode, it will also possible to use the function associated to the vehicle data storage and to the possible client.

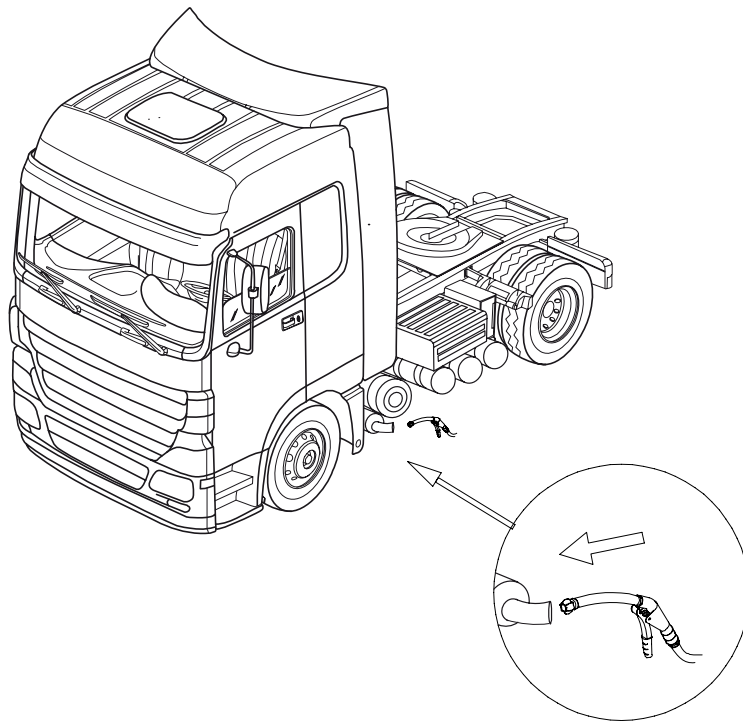
For information about the description of the individual mode functions, please see the following paragraphs.

For further details about the use of the Texa instrument for gas analysis, please see the user's manual in the package.

Before performing the test please check that:

- the room temperature is between 5° and 40° C.
- the exhaust of the vehicle is well soldered. In order to do so, please close the muffler unblocking while the engine is working at the minimal revolution: if the capacity of the exhaust is efficient, no gas air hole will be felt from the junctions.
- the engine rotation revolution at the minimal, matches the one indicated by the manufacturer.
- It is moreover advisable that the engine and oil temperature matches the one indicated by the manufacturer, which usually is about 80° C.

Now, you must enter the fume sensor tool in the exhaust pipe of the vehicle.



13.1 Continuous Measurement

The "CONTINUOUS MEASURE" mode, allows to get a free measure of the gas values (CO, CO₂, O₂, HC), of the temperature and of the engine revolution numbers (if the appropriate probes are used), of the COcorr and azoth oxide NOx values (this last measure channel, if provided without the optional chemical sensor is inactive).

The initial page provides the entering of the feeding type, fuel, ignition time and reference values of the gas if available. Said fields, as previously indicated, already have the reference values if you reach this test from the automatic mode.

FUELS / STROKES / FUEL SYS.S			
Fuel System ☐ Carburetors ☐ Injection ☒ Catalyzed ☐ Retrofit		Fuel ☐ Premium ☒ Unleaded ☐ LPG ☐ Methane	
Strokes ☒ 4 stroke ☐ 2 stroke		☐ D.I.S.	
	Riferimento	min.	max.
CO	%		
CO ₂	%		
HC	ppm		
O ₂	%		
☒ OK		☒ CANCEL	

In the following page, the values compared with the entered limits start.

TEXA

8 May 2006
9:33

Gas

Continuous measures

Engine revs

0

rpm

0

CO

5.09

0.00

% vol.

0.00

CO₂

6.1

0.0

% vol.

0.0

HC

30

0

ppm vol.

0

O₂

10.1

20.7

% vol.

20.7

Temperature

94

°C

94

CO_{corr}

% vol.

λ

1.030

0.970

NO_x

0

ppm vol.

0

Timer

Sec.

SAVE

PRINT

STOP

SELF CALIBRATION

OK

CLOSE

Measuring...

?

Then It is always possible to perform “AUTOZERO” (to redo a measurement start from the electrical calibration of the chamber) and “PRINTING OUT” (entering the vehicle data if possible, and if they are not already available). On the contrary, the function “STORE”, will only be activated in case of complete selection of the vehicle before starting the “GAS” program. The storage helps the user save the performed test data, allowing the user to view them later through the operations management software.

TEXA

17 mag 2006
9.51

Customer Management

REPAIR

Plate

AA234CD

Client

Recorded tests

Model

Car

FIAT

Stilo

1.8i 16v Kat

2-volume saloon

192 A4.000

[10/01>12/03]

Operations

Recorded tests

Maintenance

Materials

Tests done

Date	Type of test	Delete
17/05/2006 9.50	Measurement	Delete

Detail

Detection	Measurement	Value	Max	Min	Result
Engine speed	rpm	0	-	-	-
Oil Temperature	°C	93	-	-	-
CO	% vol.	0.00	-	-	-
CO ₂	% vol.	0.00	-	-	-
CO Corr	% vol.	-	-	-	-
HC	% vol.	4	-	-	-
O ₂	% vol.	20.80	-	-	-
Start	-	-	-	-	-

SEARCH

VEHICLES

CLIENTS

REPAIR

REPORT

CLOSE

Print preview

13.2 Official Test

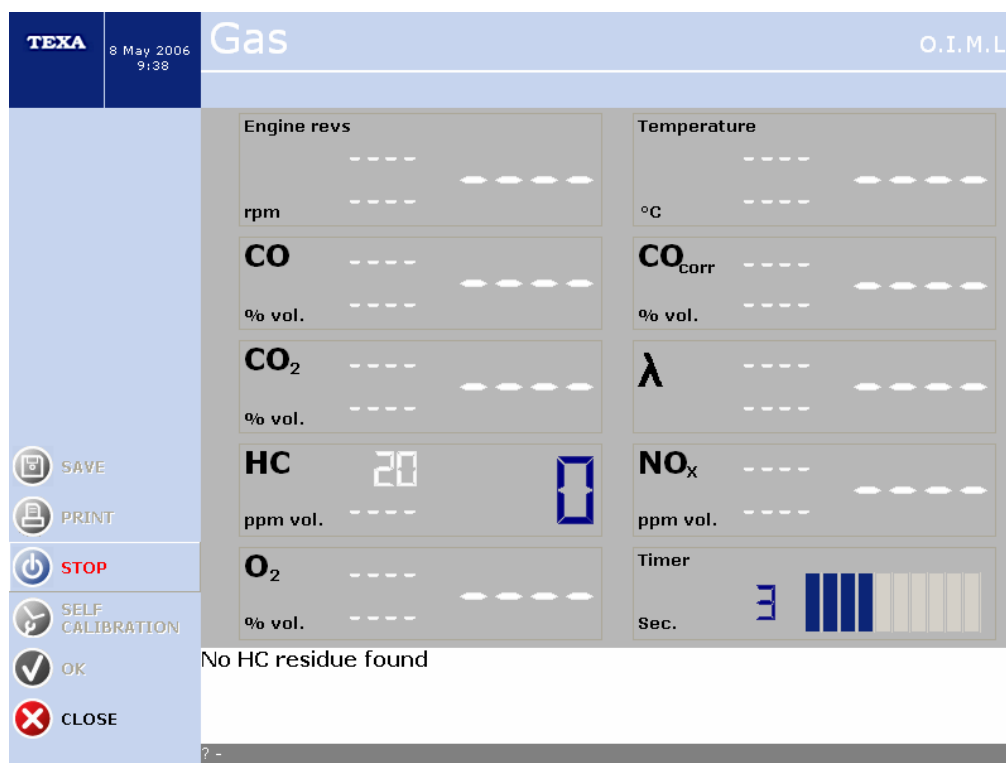
Refer to the regulations current in the country in which it is in use.

13.3 International Official Test (OIML)

The OIML test is very similar to the national OFFICIAL TEST, but its regulations are at European level

In the OIML test the values measurement related to the exhaust gas is preceded by:

- card of fuel/times/feeding
- resistance test (if necessary)
- Electric calibration of the chamber,
- test of the residual HC (the HC value measured at the beginning of the test must be under 20 ppm)



The complete page is shown as follows:

The screenshot displays the 'Gas' measurement screen of a TEXA device. The top header shows the TEXA logo, the date and time '8 May 2006 9:38', the title 'Gas', and the identifier 'O.I.M.L.'. The main display area is divided into two columns of measurement data:

Parameter	Unit	Value
Engine revs	rpm	0
CO	% vol.	0.00
CO ₂	% vol.	0.0
HC	ppm vol.	0
O ₂	% vol.	20.7
Temperature	°C	94
CO _{corr}	% vol.	---
λ		---
NO _x	ppm vol.	0
Timer	Sec.	Bar chart

Below the measurements, the status 'Measuring...' is displayed. A sidebar on the left contains several control buttons: SAVE, PRINT, STOP, SELF CALIBRATION, OK, and CLOSE.

The AUTOZERO function allows redoing of the gas measurement starting from an electric calibration of the chamber.

The possible PRINTING OUT options are three: values printing out, diagnosis and result (the possibility to enter the car data is given by the last two only)

The screenshot shows a 'PRINT' dialog box with the following options:

- ☒ Print values
- ☐ Print report
- ☐ Print diagnosis
- ☐ Single print
- ☐ Double print
- ☐ Car data

At the bottom, there are two buttons: 'OK' (with a green checkmark icon) and 'CANCEL' (with a red X icon).

13.4 Emission Conform Vehicle (blue certificate)

Refer to the regulations current in the country in which it is in use.

13.5 Results Printing Out

Usually, by selecting the function print inside the various menus, depending on the performed test/measure type, it is possible to access a series of different print outs.

- values printing out
- result printing out
- diagnosis printing out

14 OPACITY METER

14.1 Use of the Fume Analysis Chamber

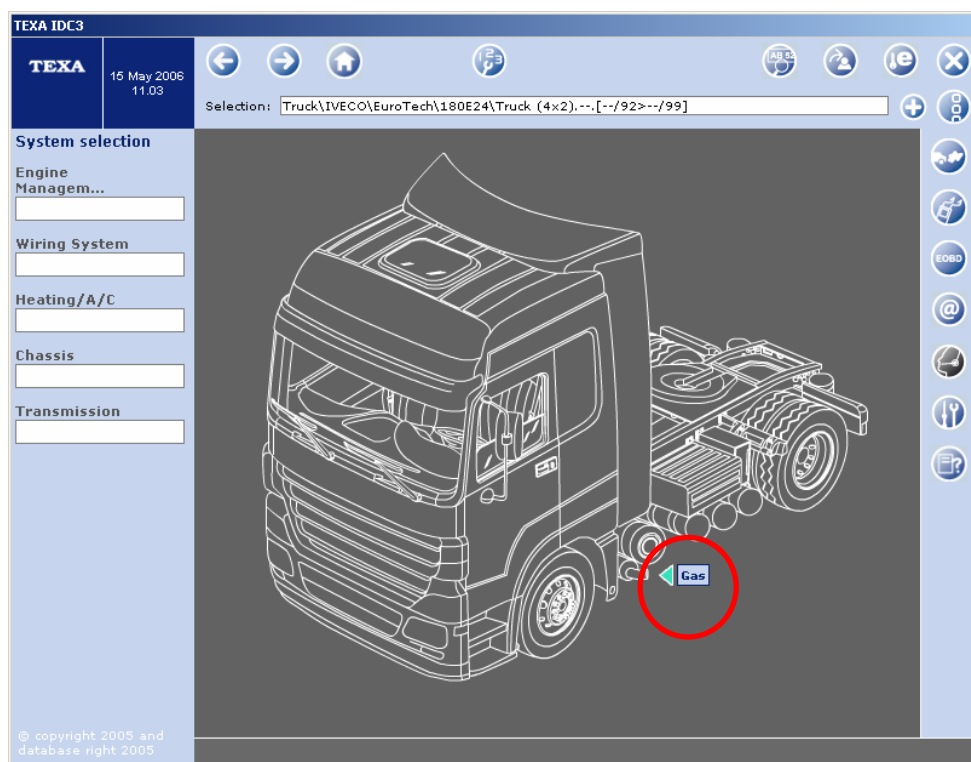
After having completed the necessary connections, the operator can execute all the tests made available by the program FUME ANALYSIS.

The fume analysis chamber can perform the following tests:

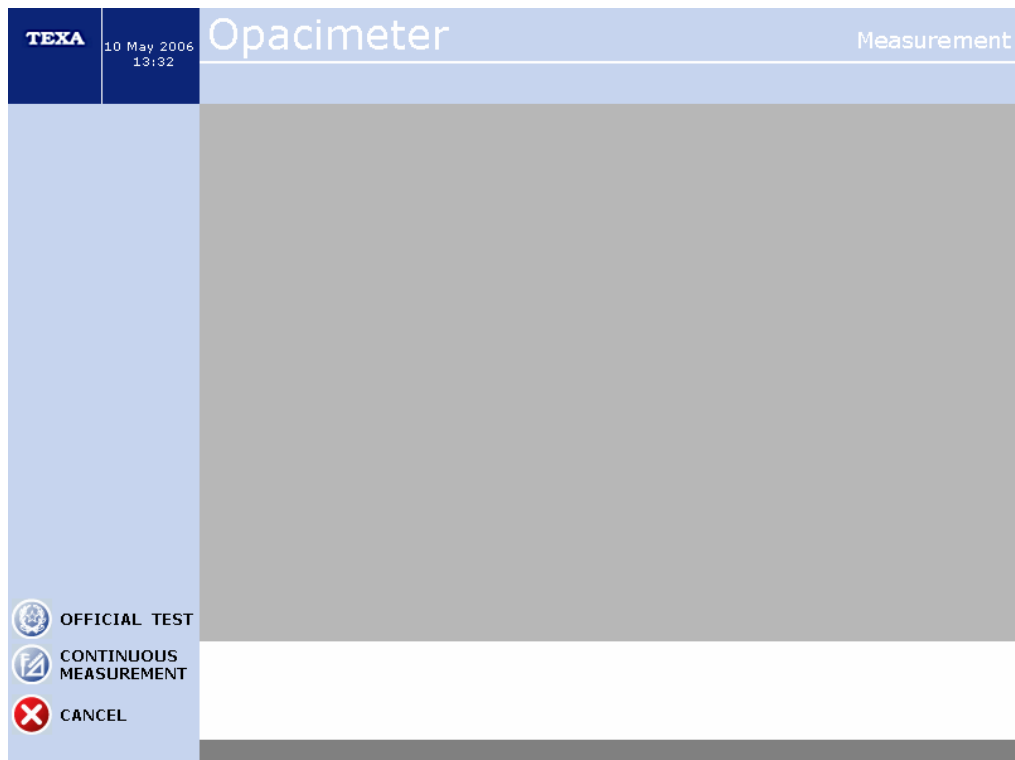
- Opacity (expressed in percentage values and K m-1);
- Number of engine revolutions;
- Engine temperature;
- Fume temperature;
- Fume pressure variation.

14.2 Use of the Fume Analysis Program

The Opacity analysis can be carried out both by the tool bar and by the instruments on the right, and by clicking on the gas icon by selecting the testing vehicle trademark and model.



The program FUME ANALYSIS gets started only if the selected car model is a Diesel one.



The program shows then the following functions:

- CONTINUOUS MEASUREMENT

for performing the tests without any reason related to the search of anomalies. The test is freely executed, without procedure restrictions imposed by law.

-OFFICIAL TEST

for performing the opacity checks according to the concerned legal regulation.

- CANCEL

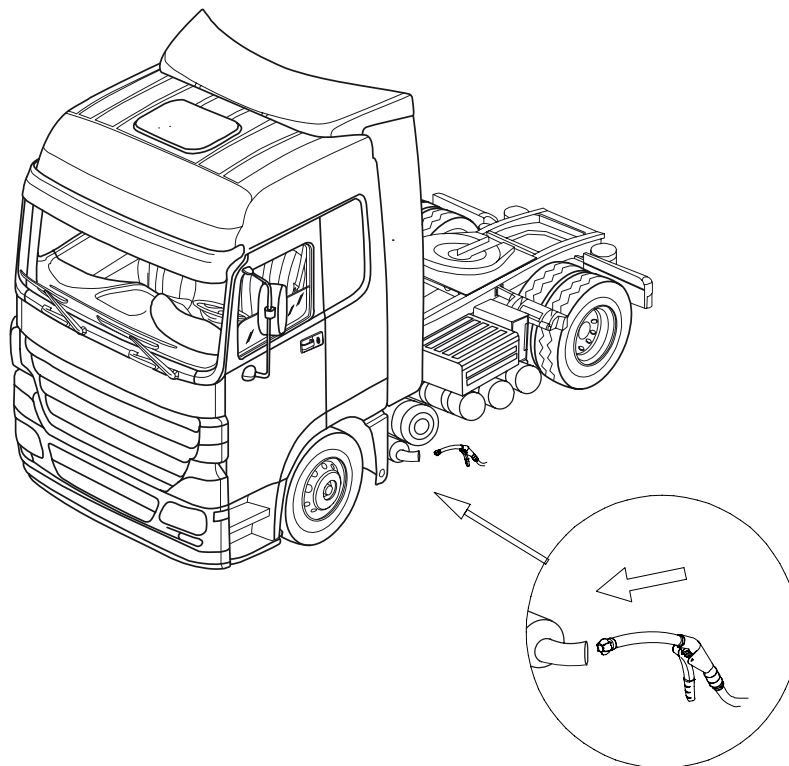
this function allows to exit from the program and return to the previous menu

14.3 Before starting the test

Before performing the test please check that:

- the room temperature is between 5° and 40°C.
- the exhaust of the vehicle is well soldered. In order to do so please close the muffler unblocking while the engine is working at the minimal revolution: if the capacity of the exhaust is efficient, any gas air hole will be felt from the junctions.
- the engine rotation revolution at the minimal matches the one indicated by the manufacturer.
- It is moreover advisable that the engine and oil temperature matches the one indicated by the manufacturer, which usually is about 80° C.

Now, you must enter the fume sensor tool in the exhaust pipe of the vehicle.



14.4 Official Test

By selecting the OFFICIAL TEST

The screenshot shows the 'Opacimetro' software interface. At the top, there is a header bar with the 'TEXA' logo, the date and time '13 Giu 2005 11:08', the title 'Opacimetro', and the word 'Misure'. Below the header, a status bar displays the vehicle information: 'Auto\ALFA ROMEO\147\1.9 JTD\937 A2.000 Berlina 2 volumi [--/00>]'. The main area of the screen is a large grey rectangle. In the center of this area is a smaller window titled 'TIPO VEICOLO'. This window contains two radio buttons: 'AUTO' (which is selected) and 'VEICOLO PESANTE'. At the bottom of this window are two buttons: a green checkmark button labeled 'OK' and a red 'X' button labeled 'ANNULLA'. On the left side of the main screen, there is a vertical menu with three options: 'TEST UFFICIALE' (highlighted with a blue background), 'MISURA CONTINUA', and 'ANNULLA'.

you proceed with the selection of the Vehicle Type. Then, an appropriate window allows the entering of different data needed to perform the OFFICIAL TEST

The screenshot shows the 'DATI TEST UFFICIALE' window. It is divided into several sections. The top section has two columns: 'Tipo motore' with radio buttons for 'Diesel Aspirato' (selected) and 'Turbo Diesel', and 'Opacita'' with a text field for 'Valore limite opacita'' and a unit 'm-1'. The middle section is titled 'Dati supplementari' and includes a text field for 'Data immatricolazione', a checkbox for 'Autobus', and three radio buttons for engine specifications: '72/306/CE' (selected), '1999/96/CE Eur', and '1999/96/CE EEV'. Below these are two more radio buttons: '98/69/CE', '1999/96/CE Eur', and 'App. VIII Art. 23'. The next section is 'Dati manuali' and includes two checkboxes: 'Lettura manuale dei giri' and 'Lettura manuale temperatura olio motore'. Below these are three text fields: 'Giri min' (500), 'Giri max' (3000), and 'Temperatura olio (°C)' (80). The bottom section is 'Dati ambientali' and includes three text fields: 'Temperatura ambiente' (23.2 °C), 'Pressione ambiente' (990 mBar), and 'Umidita'' (80 %). To the right of these fields is a red 'X' button labeled 'AGGIORNA'. At the bottom of the window are two buttons: a green checkmark button labeled 'OK' and a red 'X' button labeled 'ANNULLA'.

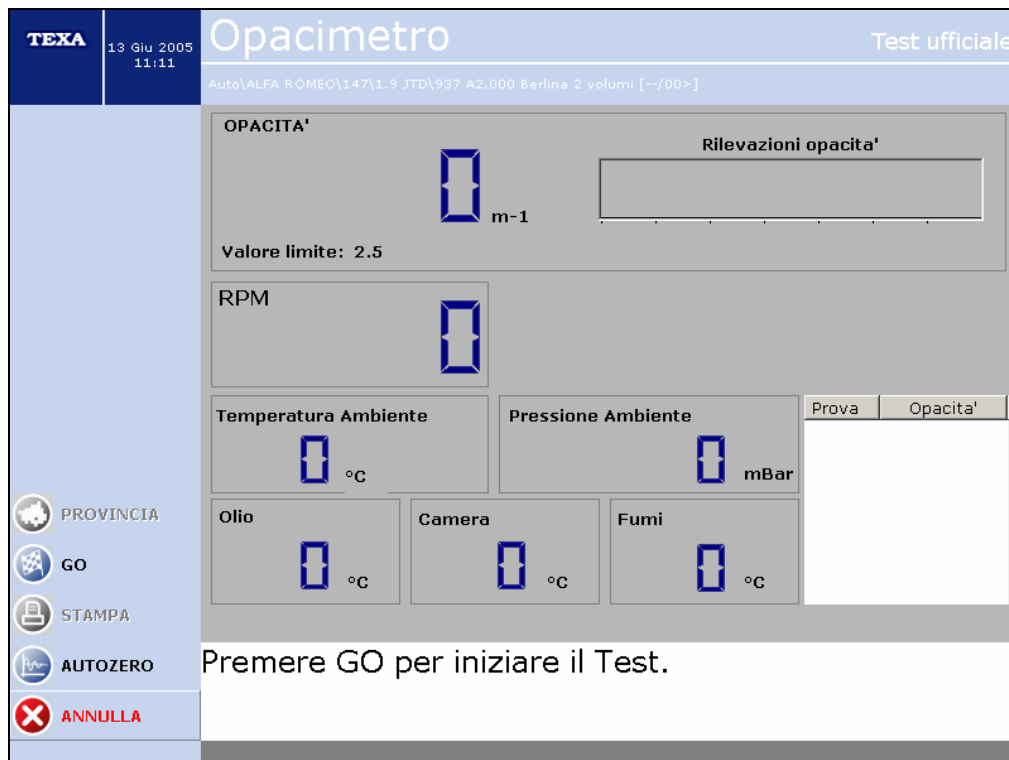
When the program starts, if the fume chamber has not yet reached the temperature, the HEATING procedure is immediately started.



and the message “ HEATING IN PROGRESS” is shown; . the duration of the heating phase depends on the room temperature in which the fume chamber works, it usually does not exceed 5 minutes.

If previously entered, the probe must be removed from the muffler for preventing the small glasses from getting dirty.

At the end of the heating phase, you access the real official test.

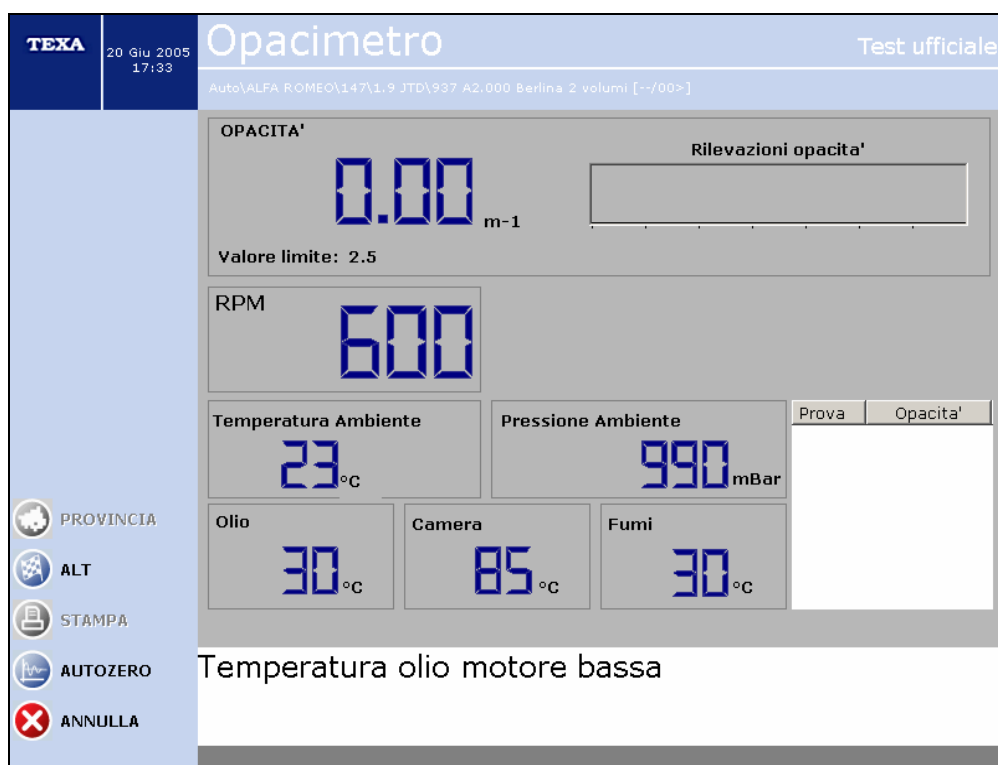


When pressing the key GO the equipment automatically performs the autozero.

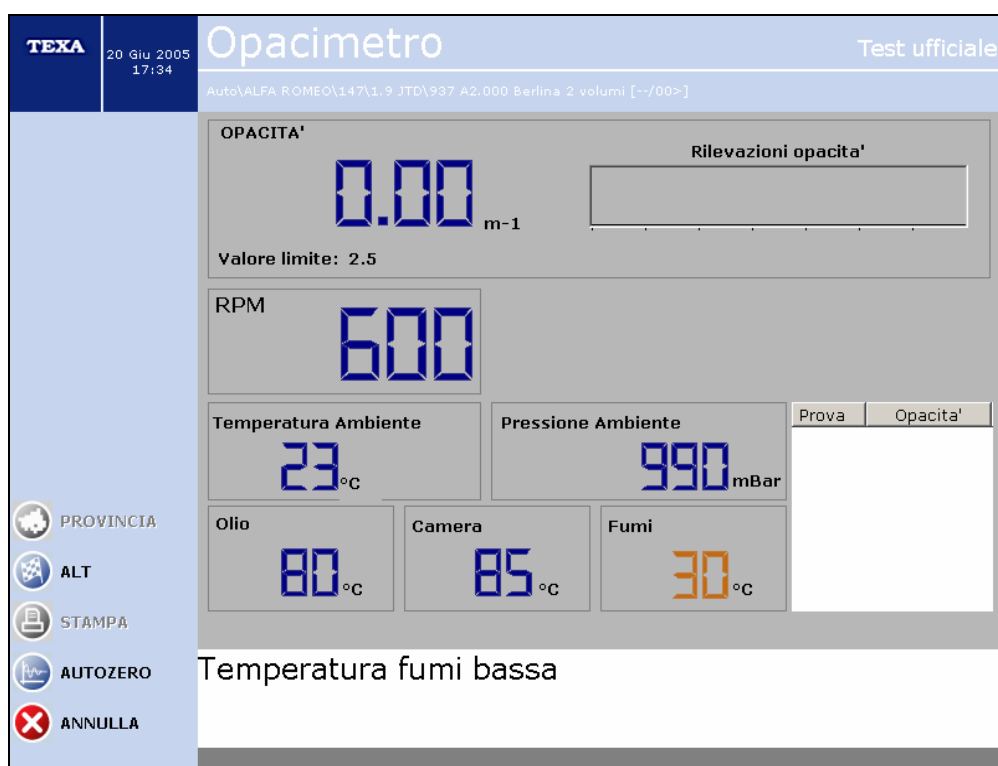
In this phase the equipment automatically performs the recalibration operations of the reference values,



If the engine has a temperature higher than 80°C, the equipment automatically continues the TEST, if not, the message "LOW ENGINE TEMPERATURE" appears and you will have to wait for the right temperature to continue the test.



The same restriction functioning also exists in case of fume temperature is under 70°C, which is the limit provided by the regulation.



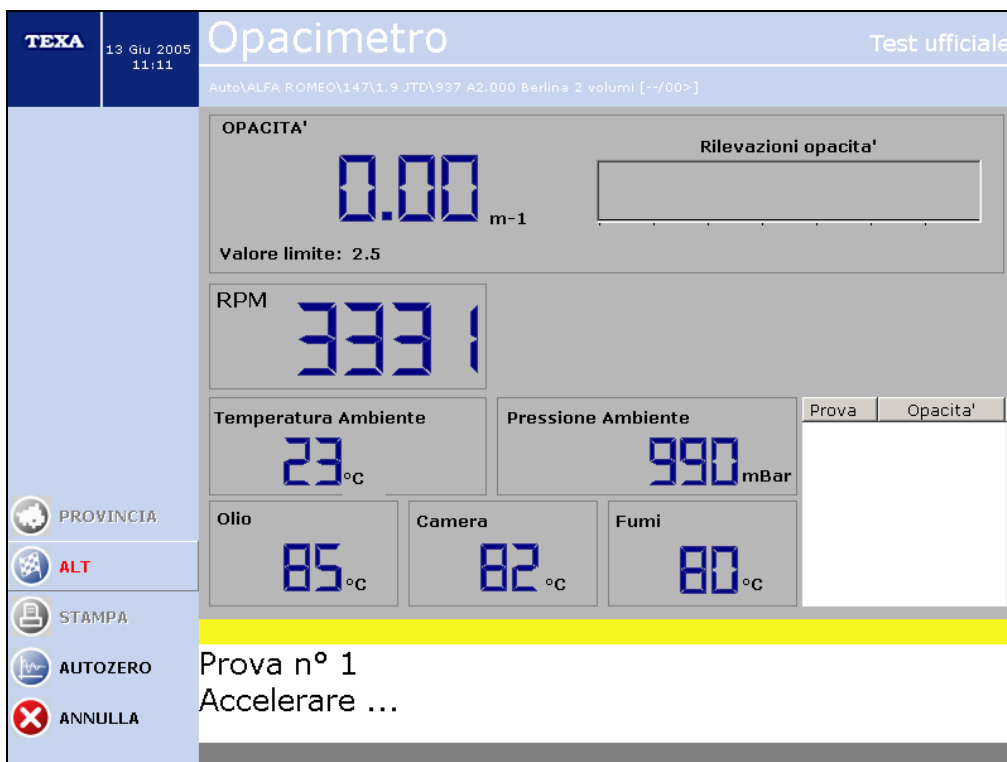
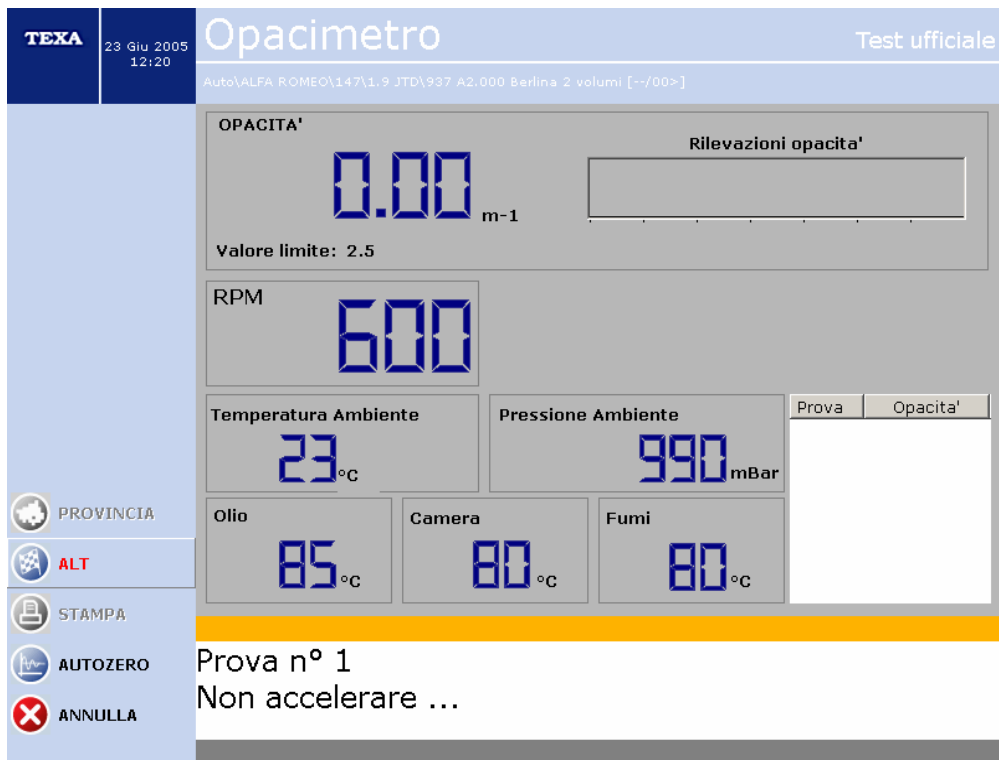
During the test, the pressure related to the fume analysis chamber is constantly measured.

The measured value can vary 7mbar with respect to zero. Only in this way the opacity values are considered correct.
If the pressure variation exceeds this value, the message “LOW CHAMBER PRESSURE” appears on the viewer.



The regulation is applied to the program provided that the official test is performed with 3 consecutive accelerations, each one starting when the message “ACCELERATE” appears on the viewer.

The following figures describe the four different phases of each one of the three acceleration tests needed for the fulfillment of the official test.



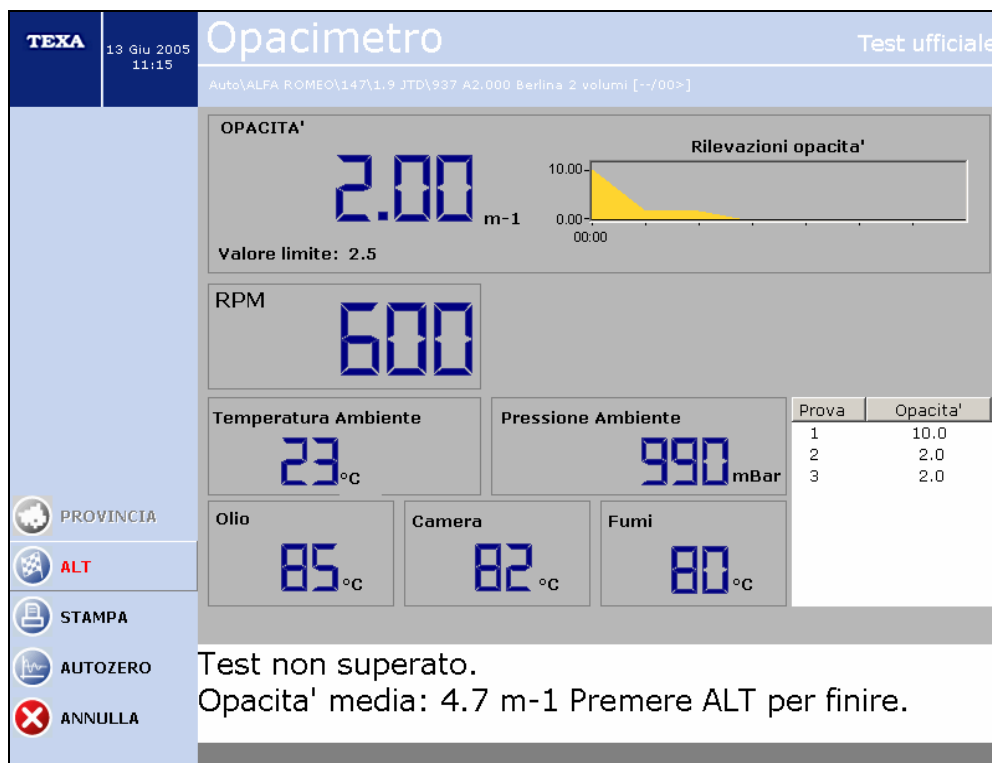


The boxes located at the side of the box OPACITY, indicated in K m-1, show the three values of opacity found in the accelerations.

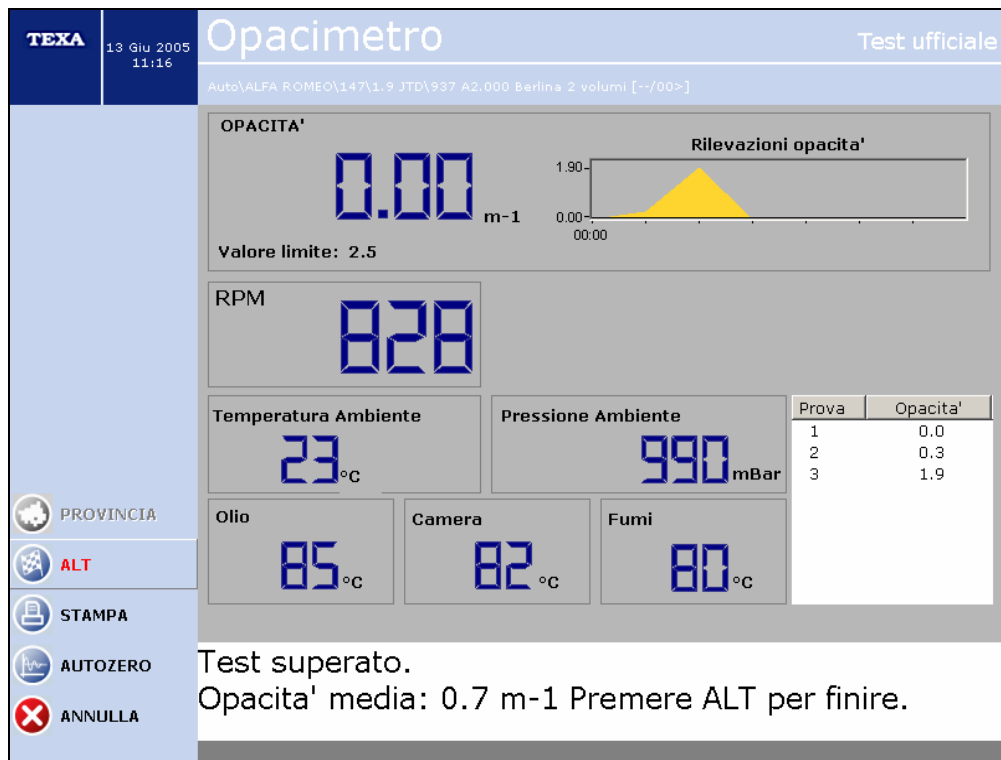
The test is considered successful if all the values in the table are within the limits of parameters.

If the values are not within the limits, then the test will continue up to a maximum of eight accelerations.

If this maximum number of acceleration exceeds, the test will be considered as negative.



The test is considered successful if the average of the last 3 values is within the limit set by law or indicated by the manufacturer. If the tests are not within the parameters set by law, the program will execute further acceleration (up to 10), then, if the result is positive, a message “TEST SUCCESSFUL” will appear.



14.5 Printing out Function

At the end of the test you can access the print menu:

TEXA 10 May 2006 16:22 **Opacimeter** Print

VEHICLE DATA

MAKE AND MODEL:

PLATE: AY 988 TT

CHASSIS NO: 1234567

ENGINE TYPE: ☒ N/A ☐ Turbo

TYPE:

YEAR OF FIRST REGISTRATION: 2005

OPERATOR'S DATA

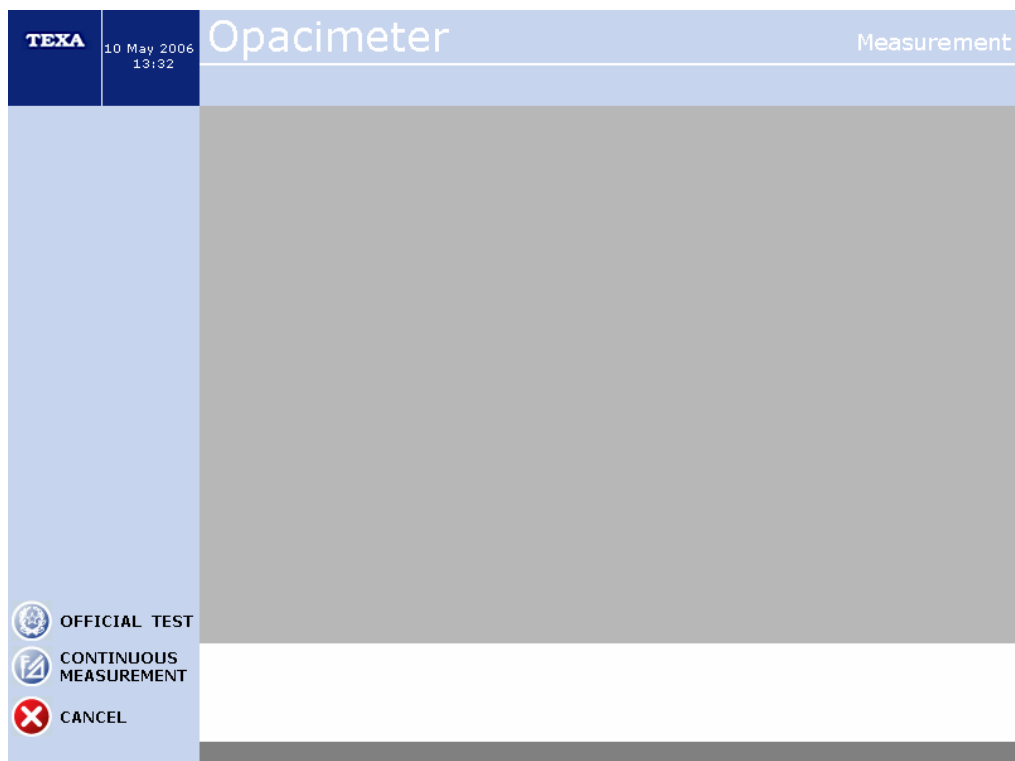
ENGINEER:

☒ OK ☐ CANCEL

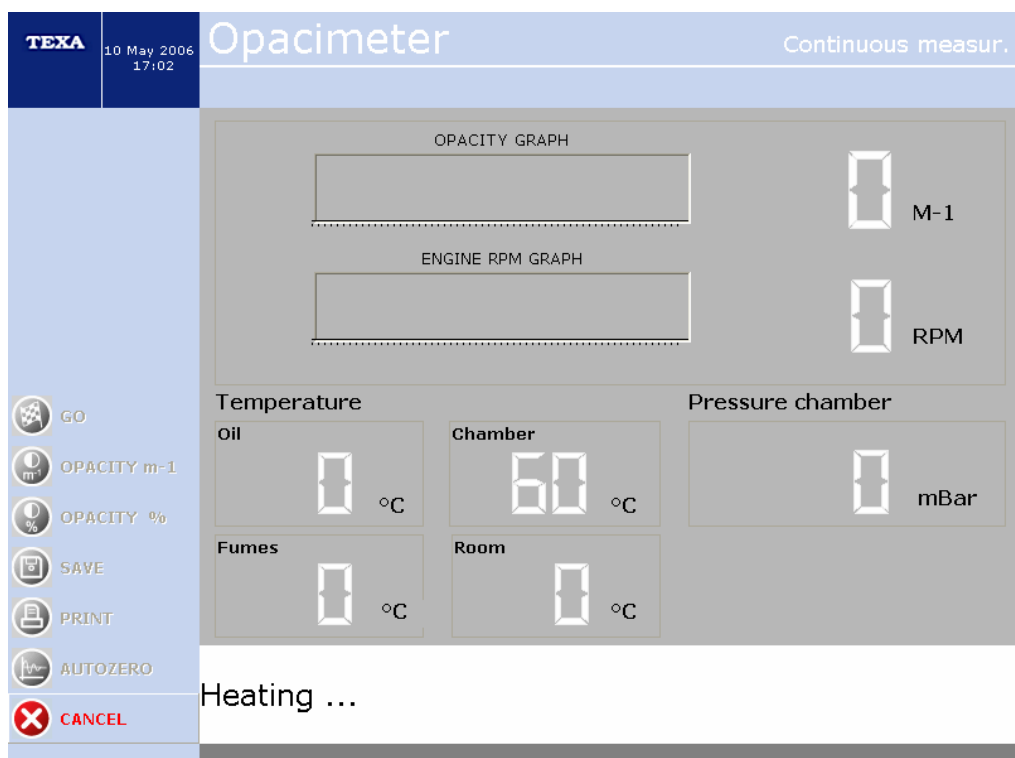
The instrument shows the entering of the vehicle data to be printed.

14.6 Continuous Measurement

In order to access the CONTINUOUS TEST, Please select the function CONTINUOUS MEASURE from the main menu.



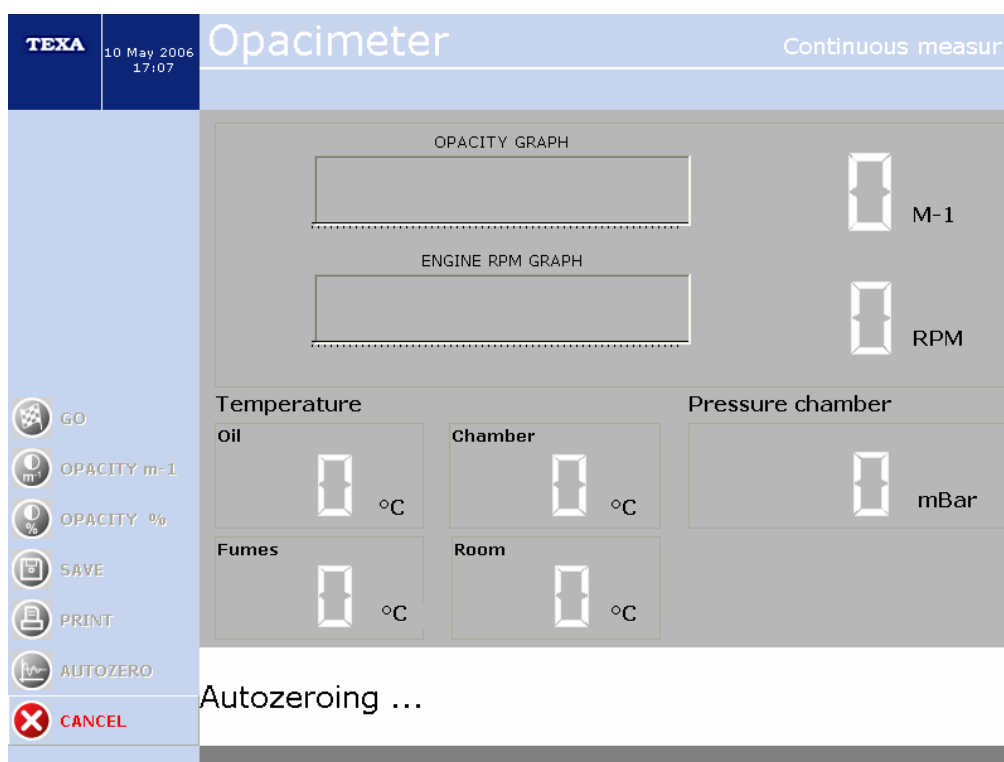
When the program starts, if the fume chamber has not yet reached the temperature, the HEATING procedure is automatically started.



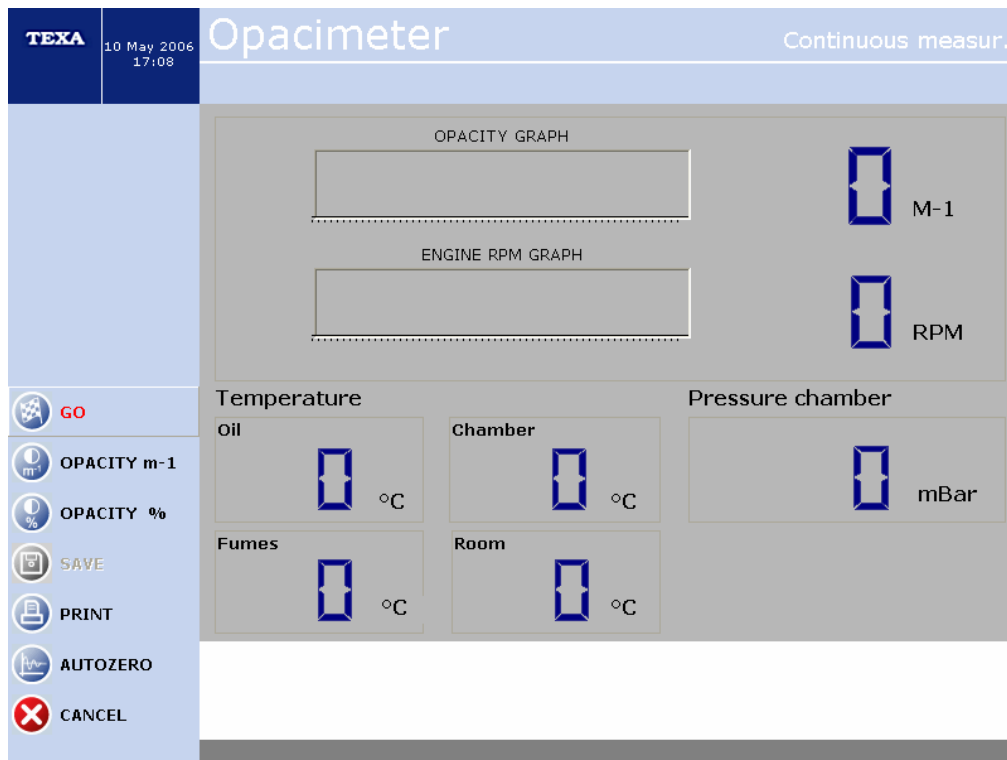
The message "HEATING IN PROGRESS" will appear. . ." this message indicates that the fume chamber is not yet at the right temperature, the duration of the heating phase depends on the room temperature in which the fume chamber works. It usually does not exceed 5 minutes.

If previously entered, the probe must be removed from the muffler for preventing the small glasses from getting dirty.

Once the heating automatic phase is set up, the "AUTOZEROING" function starts, the fume analysis chamber will automatically perform the recalibration operation of the setting values, in order to rectify possible variations caused by the exhaust fume ' impurities put down on the small glasses of the chamber during the previous tests.



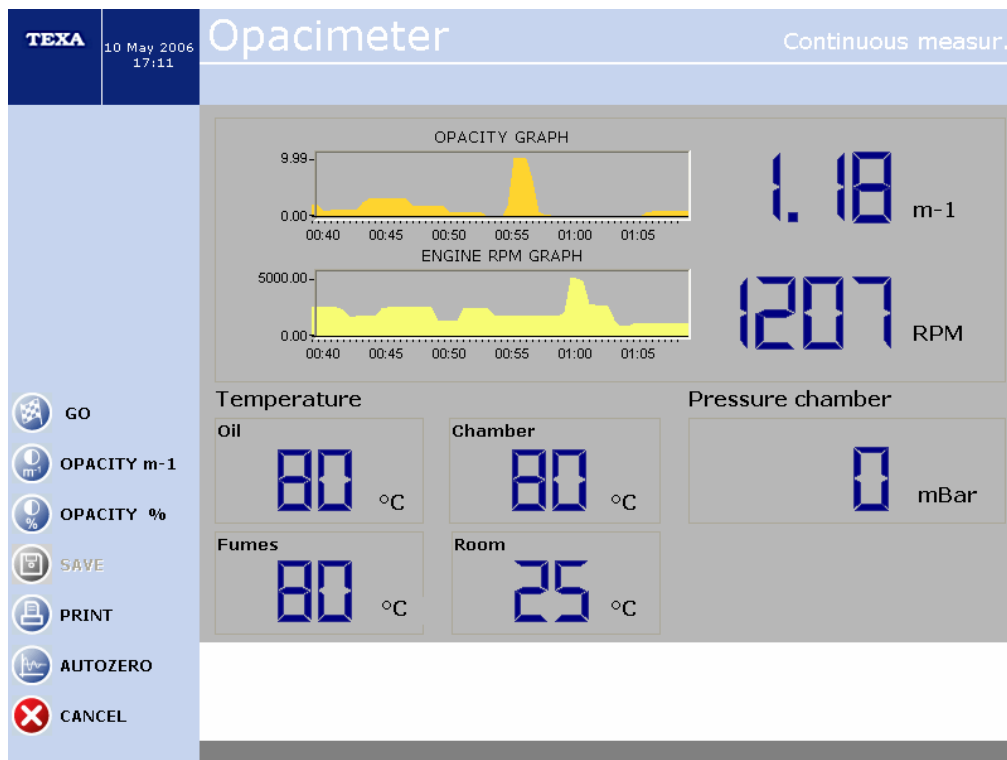
When the AUTOZERO procedure is completed, the system is ready for executing the CONTINUOUS MEASURE TEST.



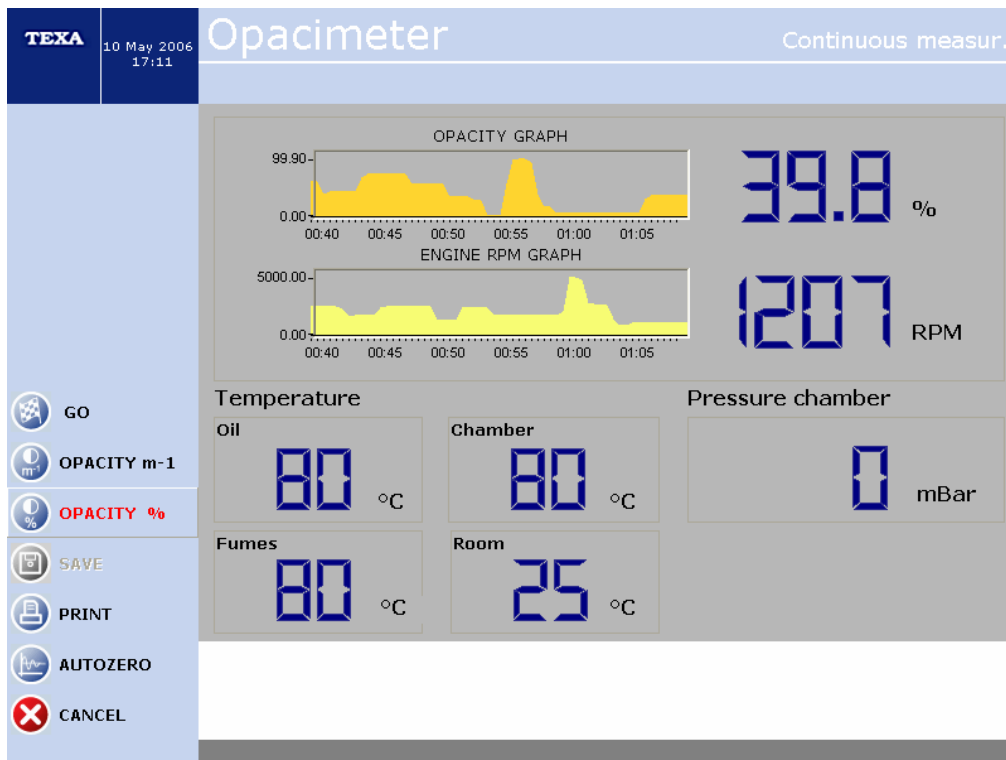
By pressing the key GO, the test continuous measurement starts automatically.

Carry out a series of accelerations as per the test needs to resolve the problem.

For the test you can choose two different measurement units, the first in m^{-1}



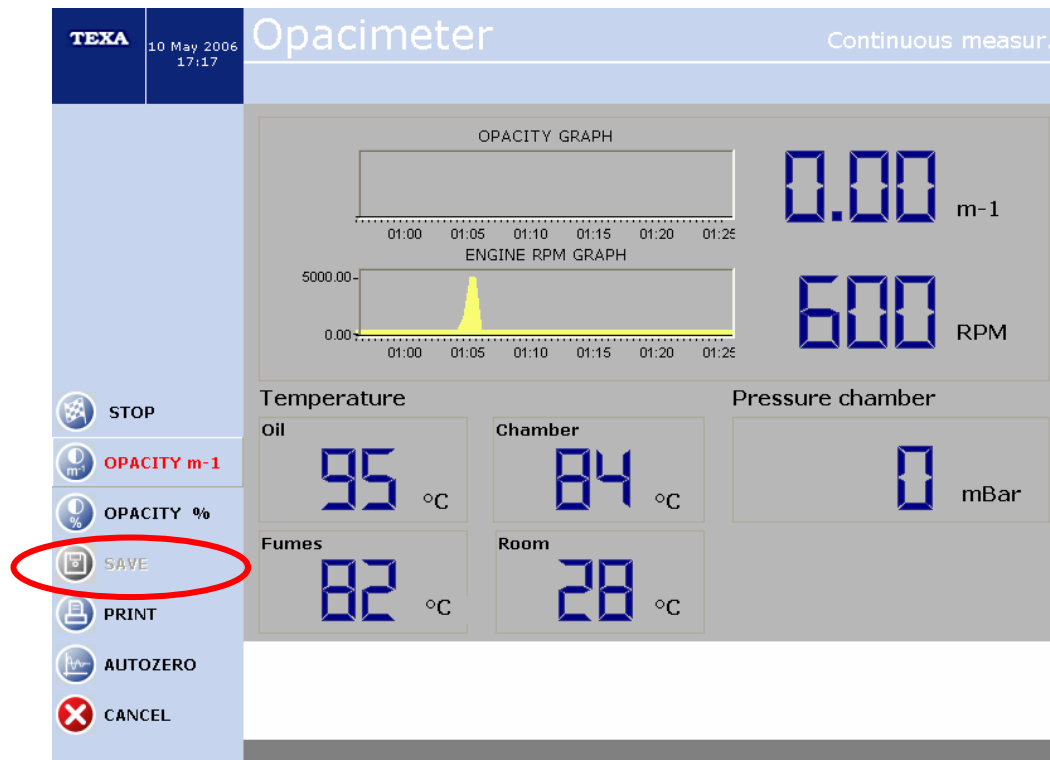
And the second in % :



At the end of the test you can access the print menu:

The screenshot shows the 'Opacimeter' print menu. The top header is identical to the previous screen, but the date/time is '10 May 2006 17:13' and the word 'Print' is on the right. The left sidebar menu is the same, but 'PRINT' is now highlighted. The main area is divided into three sections: 'VEHICLE DATA', 'OPERATOR'S DATA', and 'PRINT SETTINGS'. The 'VEHICLE DATA' section contains fields for 'MAKE AND MODEL:', 'PLATE:' (filled with 'AY 988 TT'), 'CHASSIS NO:' (filled with '1234567'), 'ENGINE TYPE:' (radio buttons for 'N/A' and 'Turbo', with 'Turbo' selected), 'TYPE:', and 'YEAR OF FIRST REGISTRATION:' (filled with '2005'). The 'OPERATOR'S DATA' section has a field for 'ENGINEER:'. The 'PRINT SETTINGS' section has two radio button options: 'Print current values' (selected) and 'Print graph with maximum values'. At the bottom left, the 'OK' button is highlighted with a green checkmark icon, and the 'CANCEL' button is below it.

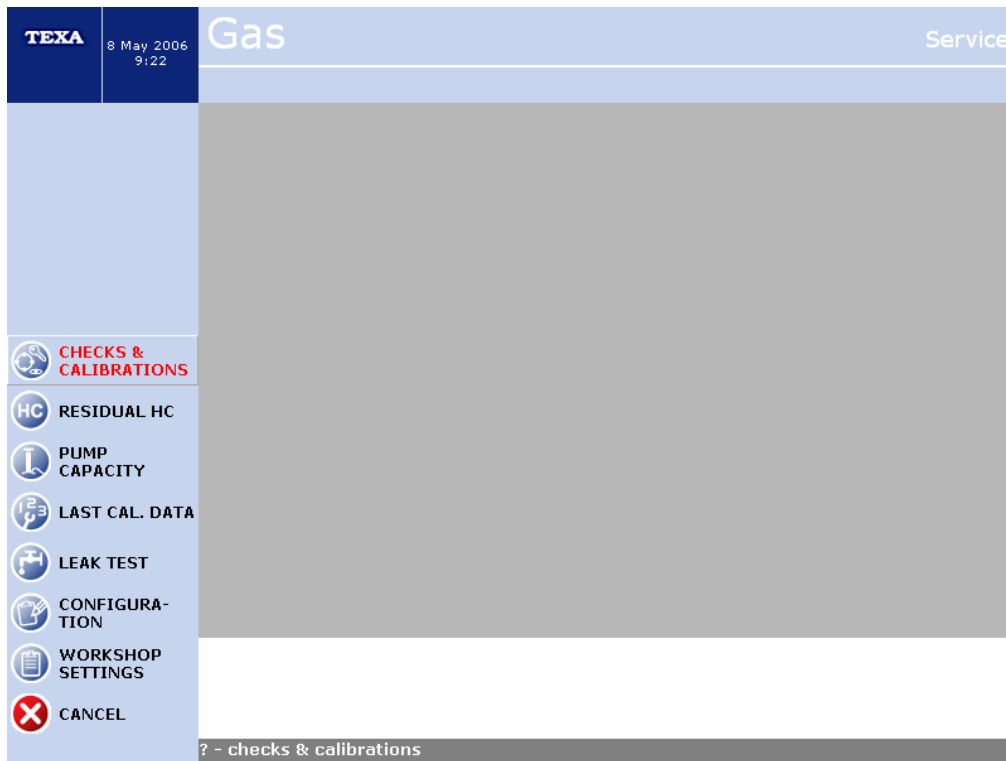
The instrument shows the page for entering the vehicle data to be printed.



On the other hand, the “SAVE” function, will only be activated after ensuring a complete selection of the vehicle before the “OPACITY METER” program. The storage provides saving of the performed test data, allowing the user to view them later, through the operation management software.

15 GAS SERVICE MENU

For accessing the “Gas Service menu” you must select Programs Service from the IDC3 application, and then Gas Service.



The “SERVICE MENU” allows to select several items. Below we indicate only those which can be accessed by the repairing technician, because particular functions are protected by password and are reserved for authorized service centre.

15.1 HC residuals

The HC residuals test allows checking if there are hydrocarbon residuals, in the hydraulic circuit of the instrument, which could damage the following measurements.



The gas sensor tool must not be entered in the exhaust tube of the vehicle.

TEXA 8 May 2006 9:23 Gas Hc residue

Timer sec.

Sec.

HC

ppm vol.

GO

CLOSE

Extract probe so that it sucks in open air.
Press "GO" to start test.

? - go

A counter limiting the duration of the test will appear on the monitor, first, the limit will be at 5 seconds (in order to give the time for removal of the tool from the exhaust tube, if necessary), then at 60 seconds, during which the values of the hydrocarbon are measured. If during three seconds their value is lower than 20ppm, the test will be considered successful or passed.

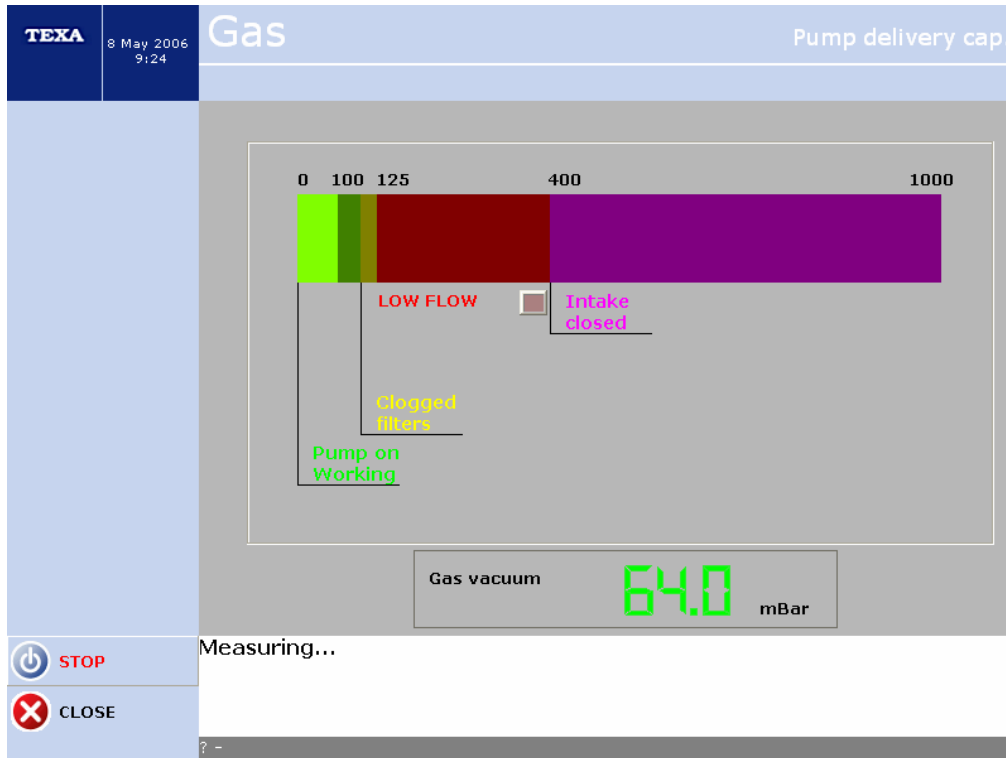
If the test is not successful, you must internally clean the exhaust tube and check the cleanness of the filters, then repeat the test.

On the other hand if any impurity is not found, the message appears stating: "Absence of HC residual verified".

15.2 Pump Capacity

With this function you can check the gas chamber pump service status for finding out, if any repairing is needed.

All the necessary indications are shown in the messages area.



15.3 Last Calibration Date

Some important dates for a good maintenance of the gas chamber are shown.

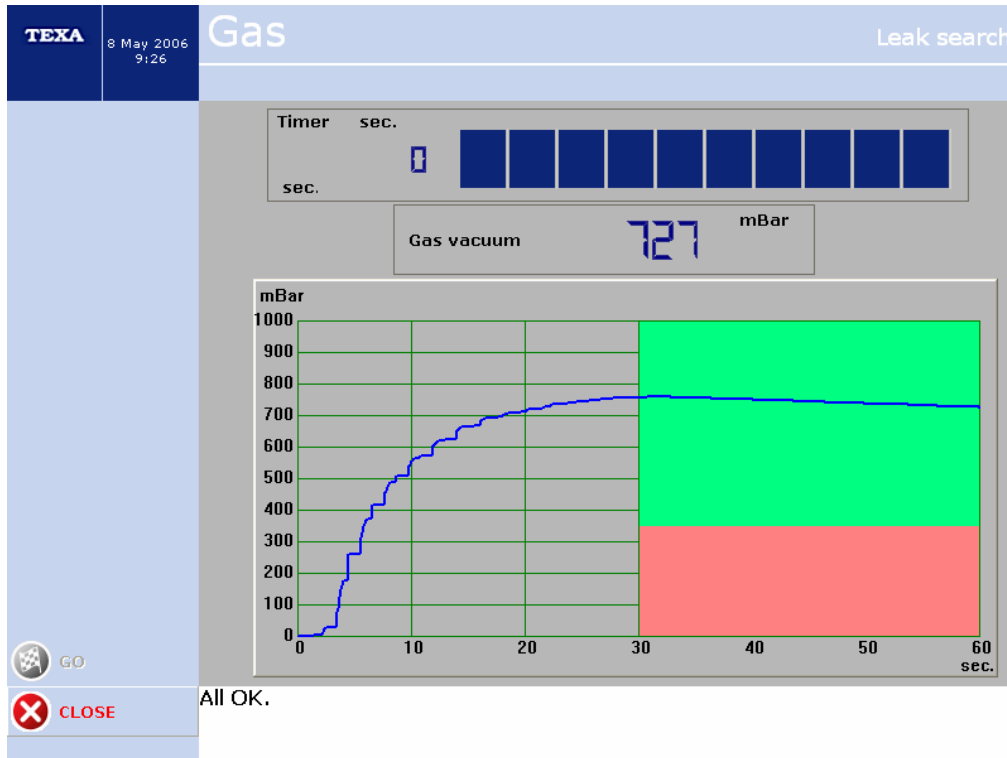
- the date on which the last periodical calibration has been performed (special) and the next date in which it should be performed.
- the date of the last periodic check of the chamber (and the next one).
- the date of the residual hydrocarbon levels (residuals HC test).
- the date of the last tightness (seal) test (and the next one)
- the date of the last electrical calibration performed (autozero)

TEXA		8 May 2006 9:24		Gas		Previous calibration data	
Calibration data		16/02/2006		Next calibration		16/02/2007	
Scheduled check date		03/03/2006		Next scheduled check		03/03/2007	
Residual HC test date		07:35 08/05/2006		Autozero date		09:21 08/05/2006	
Leak test date		07:34 08/05/2006		Next leak test		07:34 09/05/2006	
Operator		----					
Company Name		----					
Branch		----					
Town		----					
Telephone		----					
		Bottle values		Values read			
CO		4.497		----		%	
CO ₂		14.460		----		%	
HC (Propane)		3.193		----		ppm	
O ₂		8.990		----		%	
P.E.F.		0.555					
 DATE AND TIME							
 CANCEL							

If set, also the name of the operators performing the last calibration can appear.

15.4 Tightness (seal) Tests

First of all the login password is requested: please type "1236" for accessing the menu which will allow checking the hydraulic tightness of both external as well as internal circuit of the instrument.



After having executed a calibration, keeping the pump on, please close the instrument/gas withdrawal pump, by plugging the probe end with the appropriate cap.

The analyzer will create a depression in the hydraulic circuit by inhaling air for 30 seconds (see timer), then it will analyze the maintenance of the depression with the pump switched off, for further 30 seconds.

The result of the test is shown depending upon the revealed values, and are within the limits or outside the limits of the prescribed parameters.

If the previous test has provided a negative result, you will have to perform a second tightness (seal) test.

Now, it is possible to perform a second tightness (seal) test, by detaching the gas withdrawal tube from the instrument; the program will perform the internal hydraulic tightness (seal) test of the instrument in automatic mode (because the used automatic connector hydraulically closes the circuit). If this test did not get through, then, possible tightness(sealing) problems have to be searched in the external hydraulic connections of the instrument (tube, probe etc...).

If a leak is found, it is necessary to show to the authorized service centre .

15.5 Configuration

Allows viewing the machine status, by revealing the hardware and software status related to the gas analyzer.

The screenshot displays the 'Gas Configuration' interface. At the top left, the 'TEXA' logo is shown next to the date and time '8 May 2006 9:26'. The title 'Gas' is centered at the top, and 'Configuration' is at the top right. The main area contains several configuration fields: 'Firmware version' (5.30), 'CRC Firmware' (0xCFF2), 'Chamber make' (Texa S.p.A.), 'Chamber model' (Texa S.p.A. GASBOX), 'Chamber number' (A2222), and 'Gas channels available' (5). Below these, there are sections for 'COM selection' and 'Rpm counter choice'. The 'COM selection' section includes 'Gas analyser' (COM1), 'OBD diagnosis tool' (COM3), and 'Baissbarth light pen' (COM1). The 'Rpm counter choice' section has a dropdown menu set to 'CGI'. At the bottom left, there are three buttons: 'CHANGE' (with a gear icon), 'OK' (with a checkmark icon), and 'CANCEL' (with a red X icon). A 'Film maintenance' checkbox is checked. A footer bar at the bottom contains the text '? - change'.

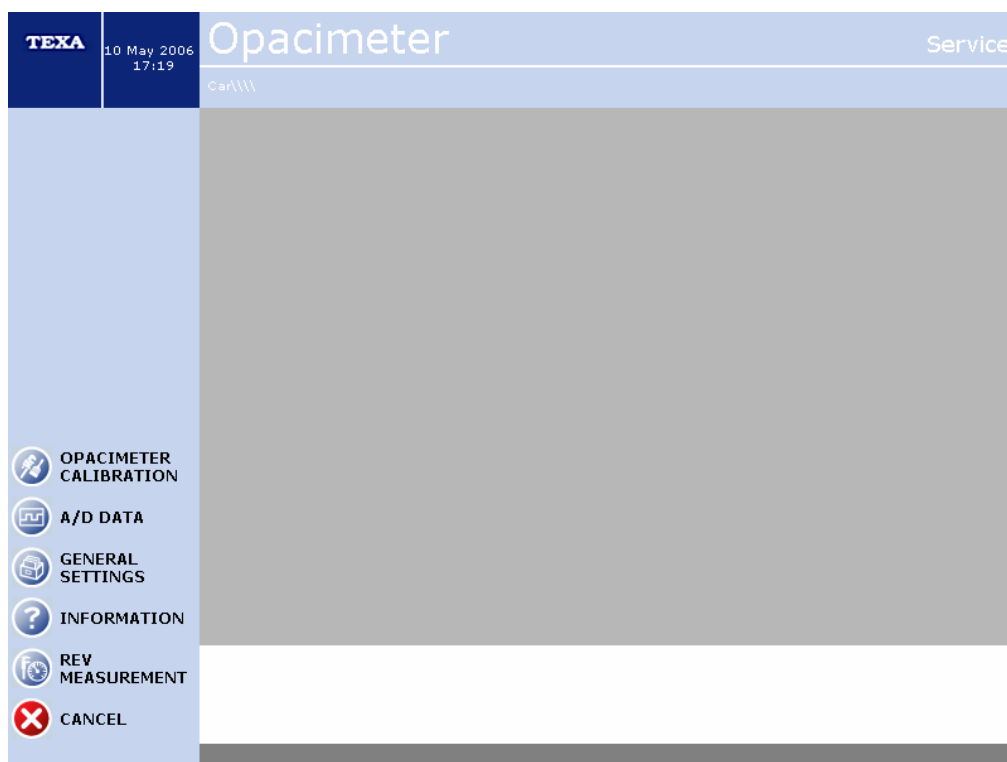
Firmware version	5.30	CRC Firmware	0xCFF2
Chamber make	Texa S.p.A.		
Chamber model	Texa S.p.A. GASBOX		
Chamber number	A2222	Gas channels available	5
COM selection		Rpm counter choice	
Gas analyser	COM1	CGI	
OBD diagnosis tool	COM3		
Baissbarth light pen	COM1		

☒ Film maintenance

? - change

The function “CHANGE” allowing the setting change is protected by password.

16 OPACITY METER MENU SERVICE



The SERVICE mode of the OPACITY METER software allows accessing a series of information useful for the instrument configuration and for testing its correct functioning.

The access to the various available functions are protected by password (that you already know).

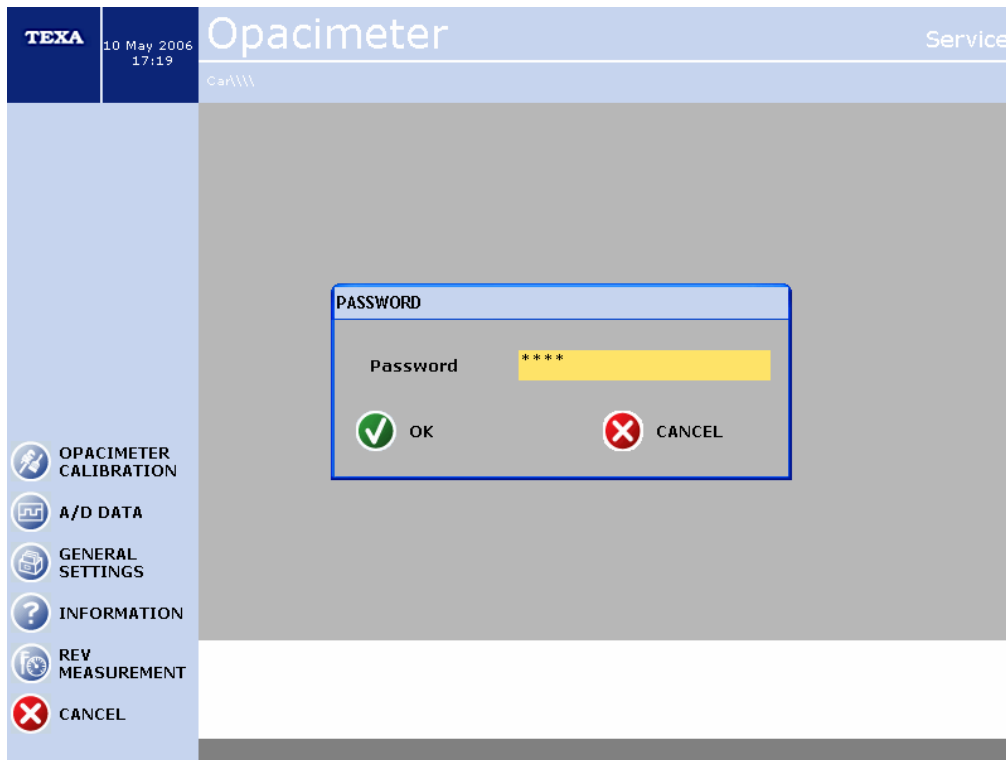
In detail:

1. LANGUAGE: if available, the user can change the language used by the instrument.
2. OPACITY METER CALIBRATION: mode protected by password for the technical assistance only for meter checks.
3. DATA A/D: mode for viewing the electrical channels used by the instrument, from this page you can check the possible anomalies
4. GENERAL SETTING: It allows the configuration of the serial port (COM) used by the instrument for communicating with the view unit (Computer).
5. INFORMATION: summary page with the sensitive data of the instrument
6. REVOLUTIONS METERING: allows the selection of the rev counter you want to use for the official tests.

16.1 Password Entering

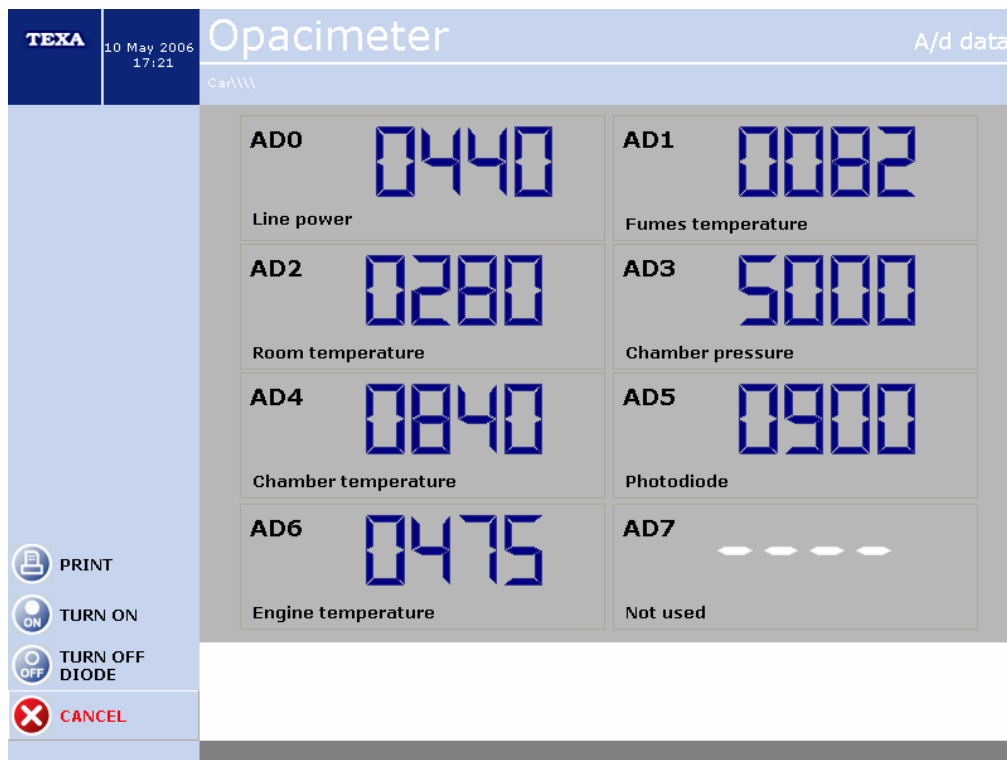
The selection of the described functions asks for entering of a PASSWORD. After having entered the numeric password, please press the key OK.

The system will show the required information.



16.2 Data A/D Function

After having entered the PASSWORD, please confirm by pressing the key OK. The following page will be shown.



The indicated information allows identifying the possible anomalies of the instrument.

By pressing the key PRINT you can print a document in which all the AD values and the related conversions are indicated, said printing out can be particularly useful for informing the retailer about a possible problem, by directly sending useful information in order to be able to find the anomaly.

SWITCHING ON/OFF OF THE DIODE allows illuminating or not the LED used to reveal the opacity

16.3 General Setting Function

After having entered the PASSWORD, please confirm by pressing the key OK. The following page will be shown.

TEXA 10 May 2006 17:22 Opacimeter Settings

Serial port

Port COM1

☐ BLU STAMP TV

Key code

Internet http://bollino.bolliniblutv.it/00_login.

User

Password

OK CANCEL

In the section SERIAL PORT you can select the serial port (COM) which the instrument will use for communicating with the viewing unit (PC). By selecting the arrow towards the bottom a flowing window for the selection of the desired COM will be opened.

The section EMISSION CONFORM (BLUE CERTIFICATE) should be changed by the retailer only if necessary.

16.4 Information Function

After having entered the PASSWORD, please confirm by pressing the key OK. The following page will appear.

Opacimeter	
Model	DIESEL TEST
Serial number	V12345
Approval no.	OM00372Bb
Scheduled overhaul date	16/02/2008
Firmware version	4.1
Software version	22.0.0

Rev. counter	
Model	
Serial number	
Approval no.	
Scheduled overhaul date	30/12/1899

Workshop data	

CANCEL

This page summarizes the sensitive data of the instrument, by revealing, the serial number of the instrument and the expiry date of the periodic check, in particular.

16.5 Revolution Metering Function

After having entered the PASSWORD, please confirm by pressing the key OK. The following page will appear.

The screenshot displays the 'Opacimeter' interface for 'Rev. measurement'. The top header includes the 'TEXA' logo, the date and time '10 May 2006 17:23', and the vehicle identifier 'Car(111)'. The main display area shows 'Rev. detected' with a large digital readout of '600' RPM. Below this, the 'Multiplier factor' is set to '1'. The 'Select rev. counter' section offers three options: 'ODO', 'Injection mode with piezo sensor', and 'Multi probe'. The 'Configuration' section at the bottom allows setting the 'rpm min. limit' to '0' and the 'rpm max limit' to '5500'. On the left side of the screen, there are two buttons: 'CONFIG' with a gear icon and 'CANCEL' with a red 'X' icon.

In this page you will be able to change the type of rev counter used to execute official tests, the associated approved rev counter for the DIESEL TEST instrument usually is the Multi Probe.

17 SOFTWARE UPDATE SERVICE

Texa offers to its clients very important services via Internet, allowing them to get the maximum performances of the Texa instruments and of the software installed in the computer.

With one of these services it is possible to, directly and periodically, install the software update provided by Texa, on the computer. In this way the instrument is always updated.

The Texa Service Update is available overnight and every day of the week for every subscribed user. In this way, you can update the software when you wish do so, even during vacations or free time.

17.1 Modem Configuration

As about the computer configuration, you can have your connection via an usual internet access already configured on the computer when the system starts, if a connection is not yet available, it will ask for the type of internet connection mode.

On the contrary, the connection of Axone3 Mobile access, must be configured by the user.

In order to do this you must have an internet access (LOGIN and PASSWORD) allowing the instrument to access the network for getting the updates provided.

There are several connection modes:

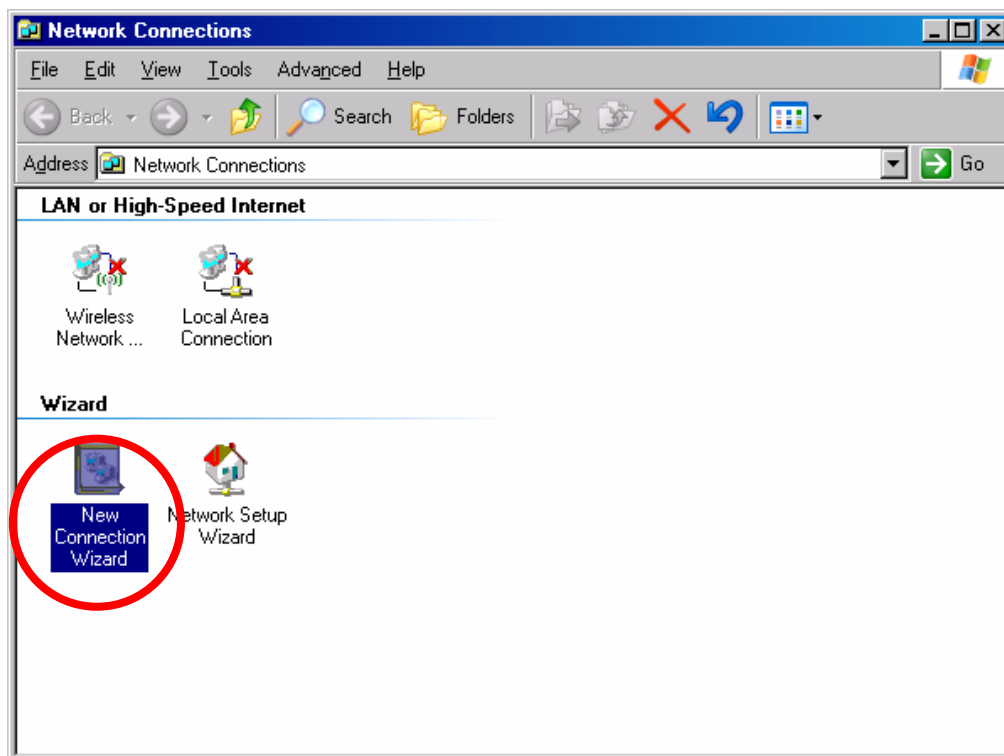
1. via analog modem or ISDN modem
2. via network connection LAN or WiFi

17.1.1 Analog Modem/ISDN (for Axone3 Mobile)

CONNECT YOUR MODEM TO THE USB PORT OF THE INSTRUMENT.

By pressing the SETTING BUTTON of the Axone 3 menu (TOOLBAR), you will access to IDC3 Service by entering your password

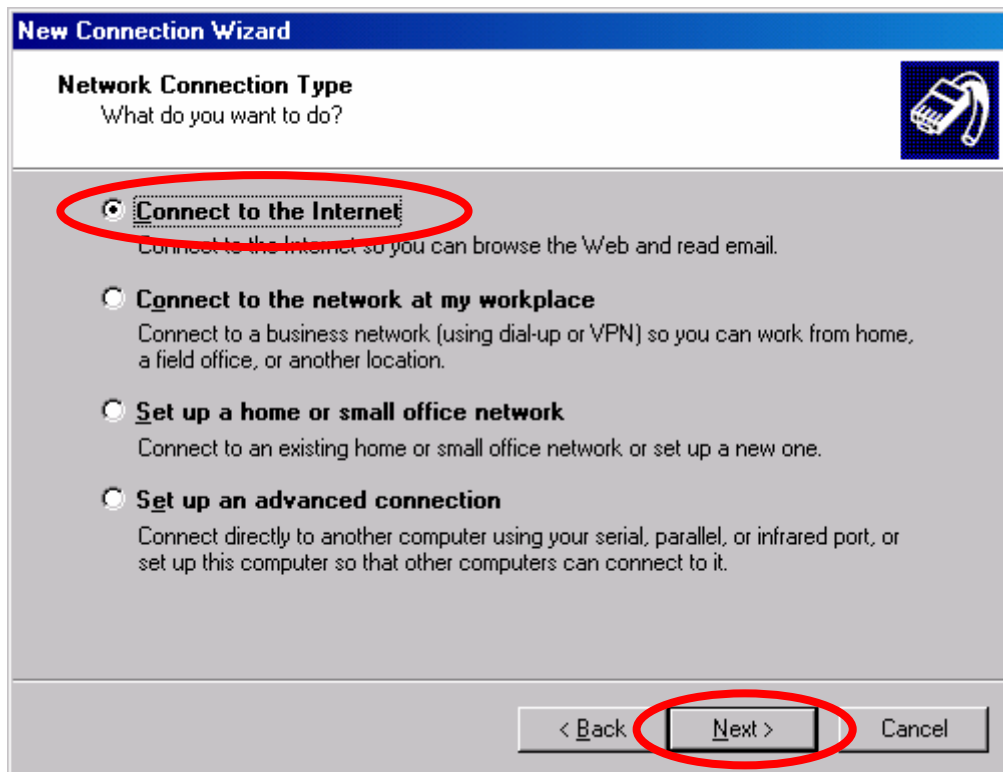
By selecting CONTROL PANEL and then NETWORK CONNECTIONS the following page will appear.



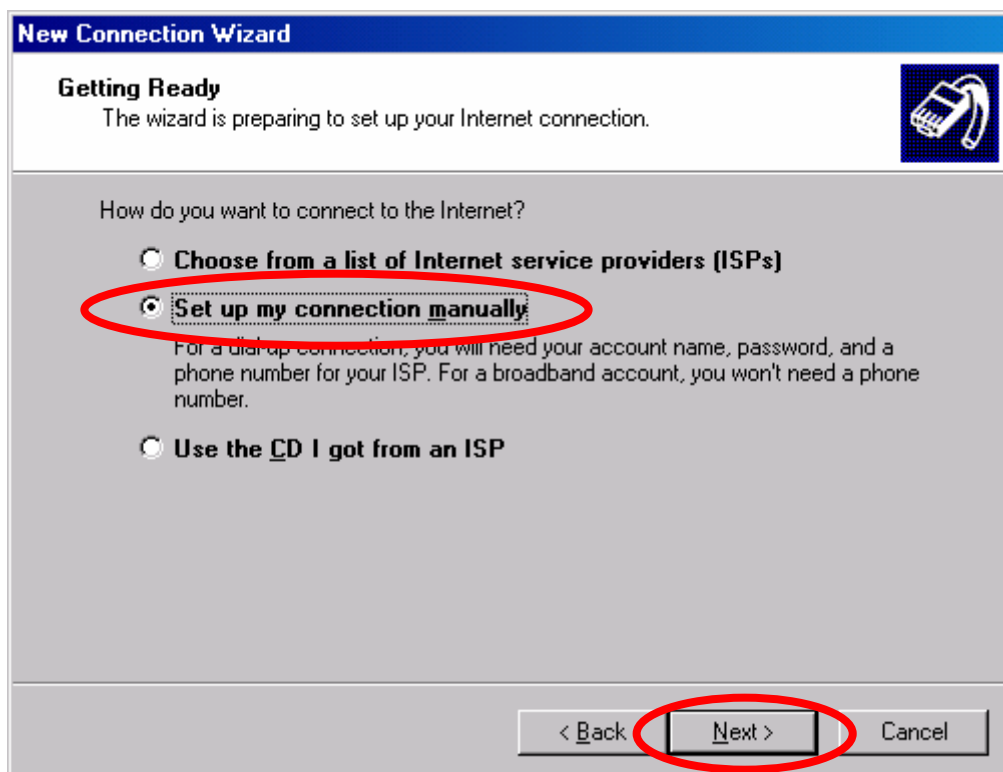
By selecting NEW CONNECTION WIZARD, the configuration procedure for creating a new remote access connection will start. Please start this procedure by pressing the key NEXT.



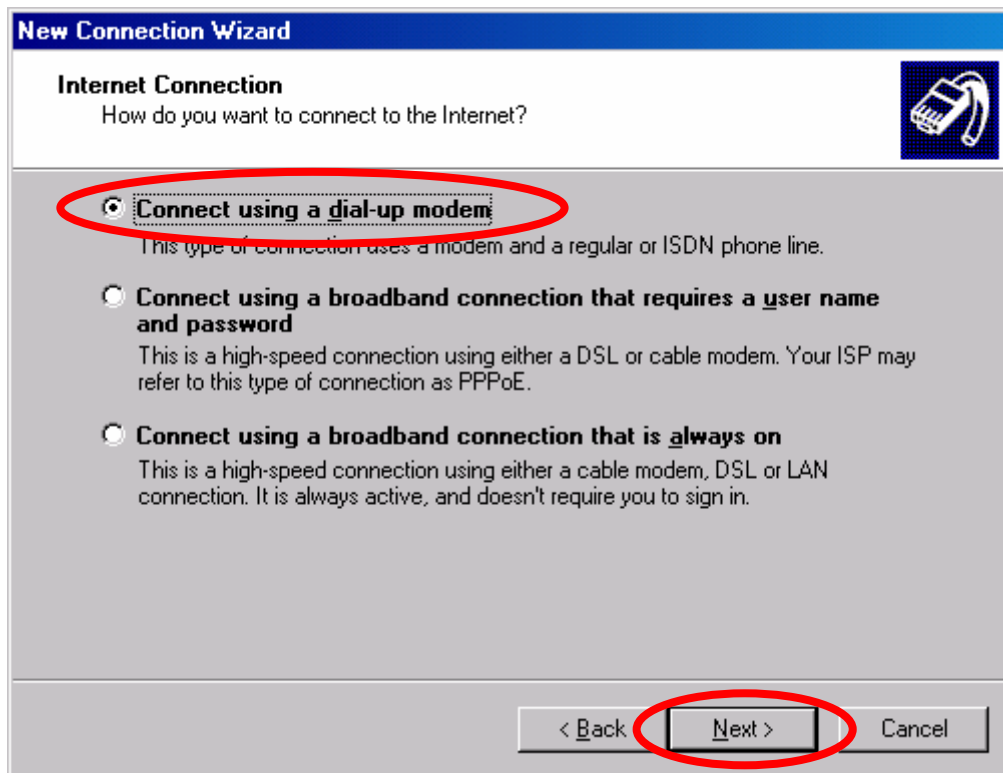
In the following page (Network Connection Type), please select **CONNECT TO THE INTERNET** and confirm by clicking **NEXT**.



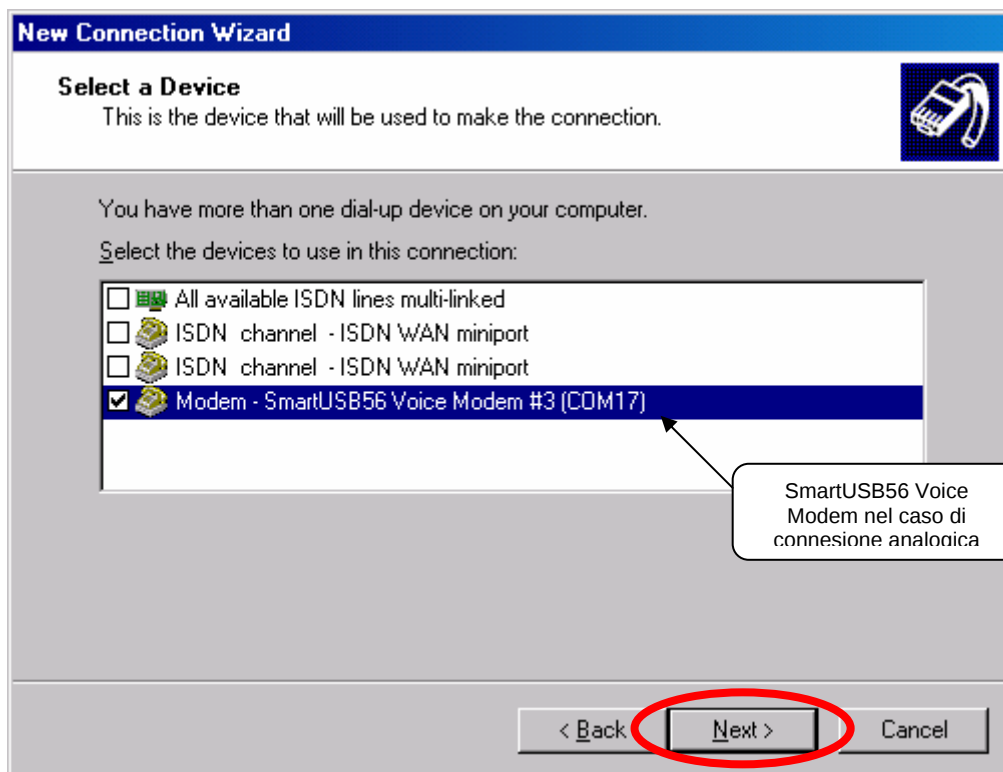
You will then see the configuration mode (Getting Ready), please select **SET UP MY CONNECTION MANUALLY** and go on with the key **NEXT**.



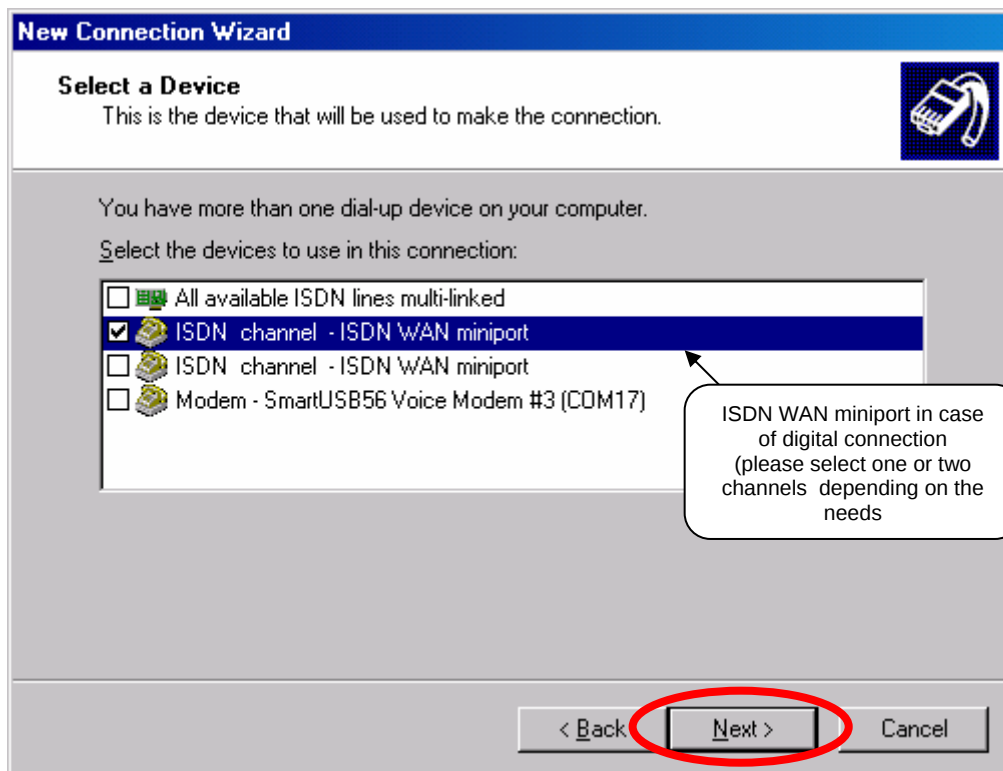
In the following page (Internet Connection) please select **CONNECT USING A DIAL-UP MODEM**, then proceed with **NEXT**.



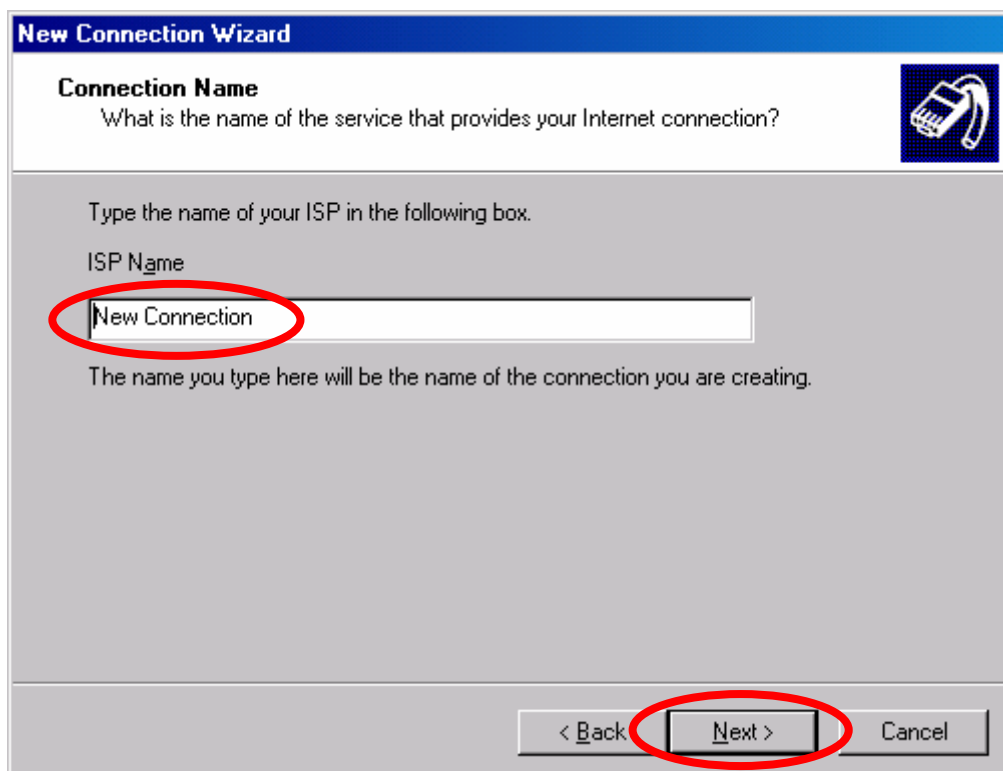
By opening the page "Select a Device", please select the modem that you have already connected to the instrument.
In case of analog modem, please select MODEM-SMARTUSB56



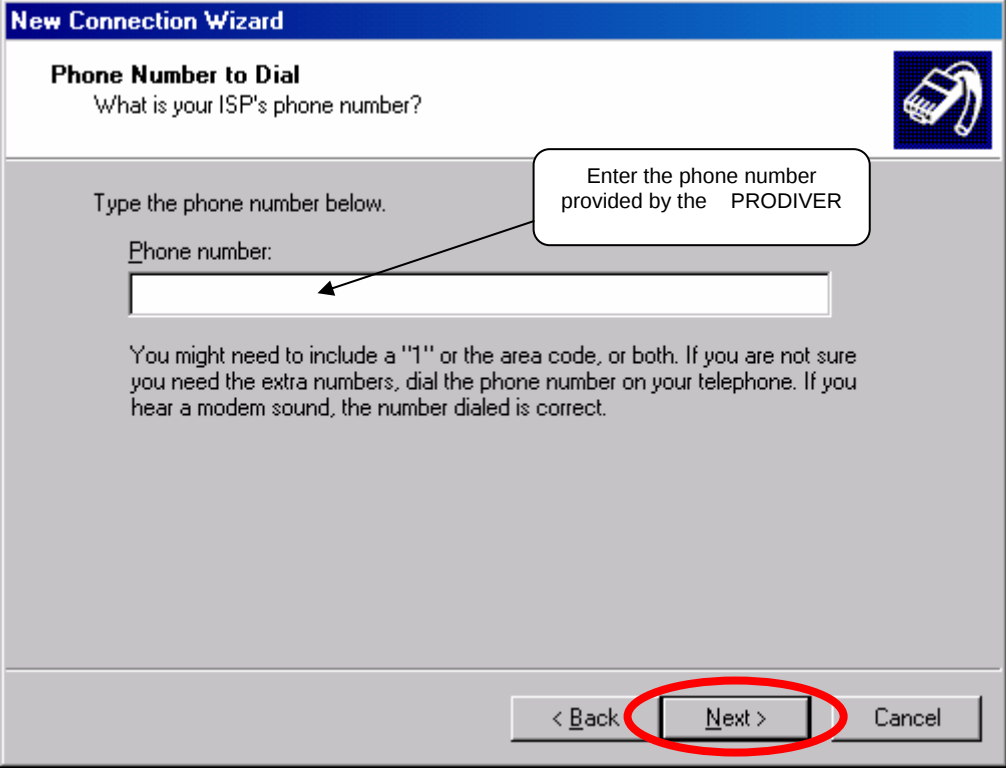
In case of ISDN modem, please select ISDN channel- ISDN WAN miniport



In both cases, please proceed by pressing the key NEXT and complete the configuration by entering the INTERNET SERVICE PROVIDER'S data.



Please enter the name you wish to use for identifying the internet connection in the page “Connection Name”, use the data provided by the internet service provider if available. Please enter the phone number you will have to dial for the internet connection in the space, “Phone Number to Dial”.



The screenshot shows a Windows-style dialog box titled "New Connection Wizard". The main heading is "Phone Number to Dial" with a sub-question "What is your ISP's phone number?". On the right is a small icon of a telephone handset. Below the heading, it says "Type the phone number below." followed by a text input field labeled "Phone number:". A callout box points to this field with the text "Enter the phone number provided by the PROVIDER". Below the input field, there is a paragraph of instructional text: "You might need to include a '1' or the area code, or both. If you are not sure you need the extra numbers, dial the phone number on your telephone. If you hear a modem sound, the number dialed is correct." At the bottom, there are three buttons: "< Back", "Next >", and "Cancel". The "Next >" button is highlighted with a red oval.

In the following page “Internet Account Information” you will be required to type in the USER NAME and PASSWORD. This information is provided by the Internet Service Provider and are essential for completing the configuration of the new remote access.

Please enter the requested data in the following page and confirm by pressing the key NEXT.

New Connection Wizard

Internet Account Information
 You will need an account name and password to sign in to your Internet account.

Type an ISP account name and password, then write down this information and store it in a safe place. (If you have forgotten an existing account name or password, contact your ISP.)

User name:

Password:

Confirm password:

☒ Use this account name and password when anyone connects to the Internet from this computer

☒ Make this the default Internet connection

< Back **Next >** Cancel

Enter NAME USER

Enter PASSWORD

Enter PASSWORD again to confirm

The procedure for creating the remote access is ended; please close “New Connection Wizard” by pressing the key FINISH.

New Connection Wizard

Completing the New Connection Wizard

You have successfully completed the steps needed to create the following connection:

New Connection

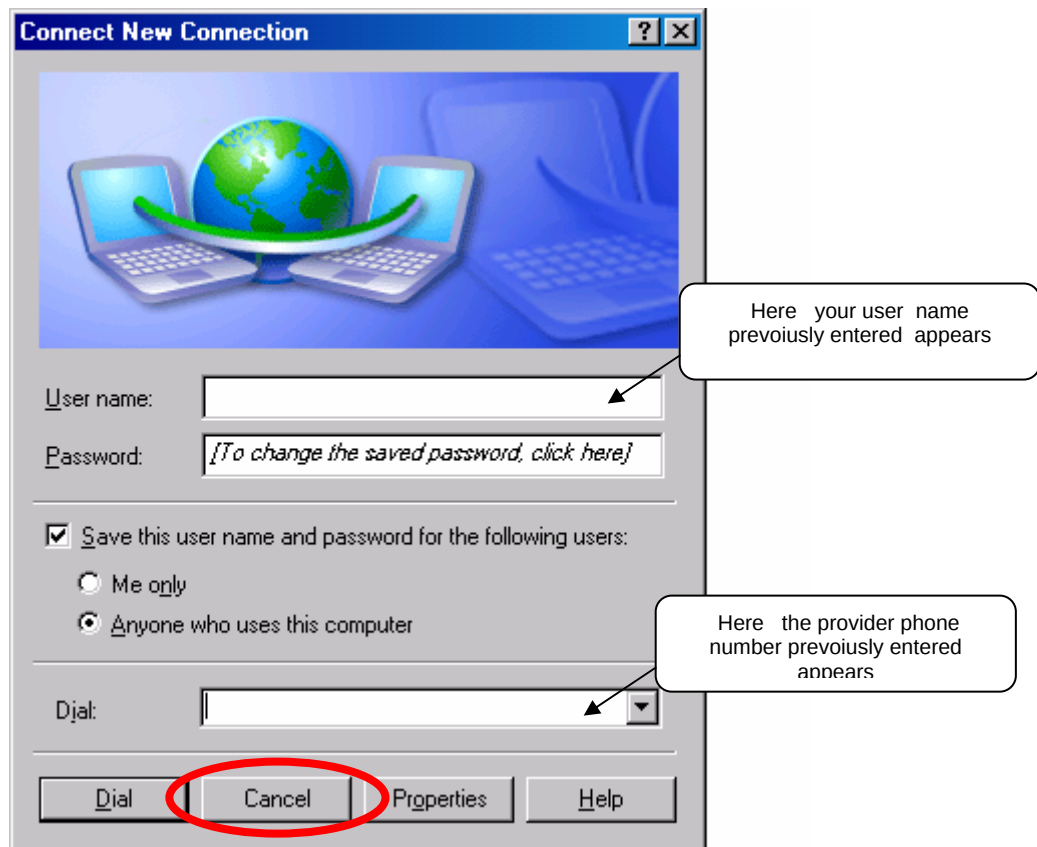
- Make this the default connection
- Share with all users of this computer
- Use the same user name & password for everyone

The connection will be saved in the Network Connections folder.

☐ Add a shortcut to this connection to my desktop

To create the connection and close this wizard, click Finish.

< Back **Finish** Cancel



When the procedure is completed, the connection page (Connect new Connection) will be opened, it is possible to close this window by clicking CANCEL.

17.1.2 Network connection

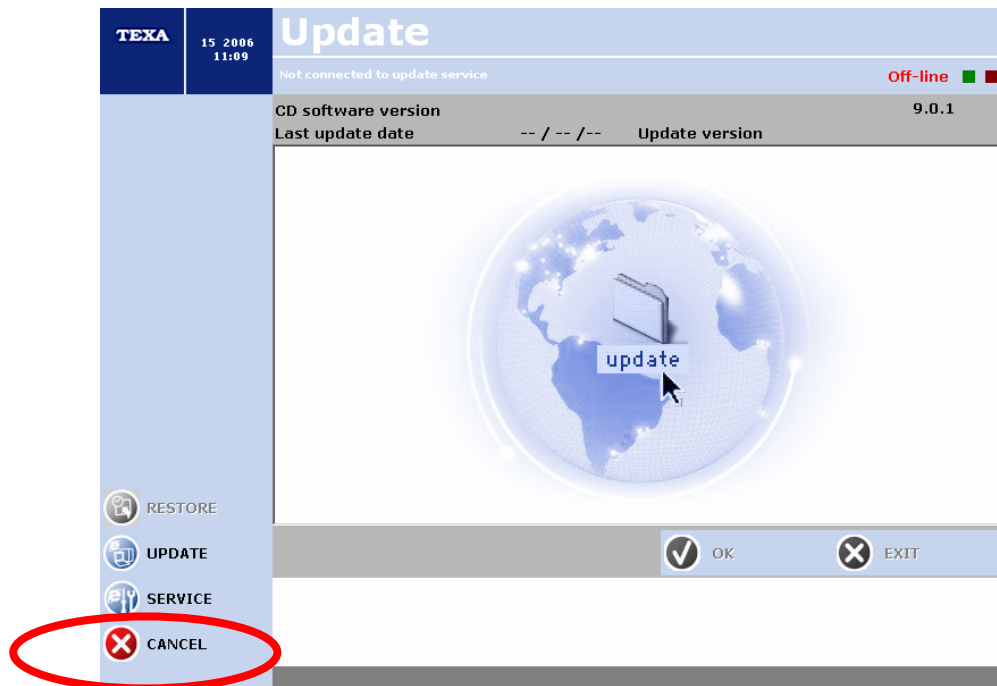
For the internet access configuration via network, you can use two modes:

1. access via LAN network (docking station)
2. access via WiFi network (optional WiFi module)

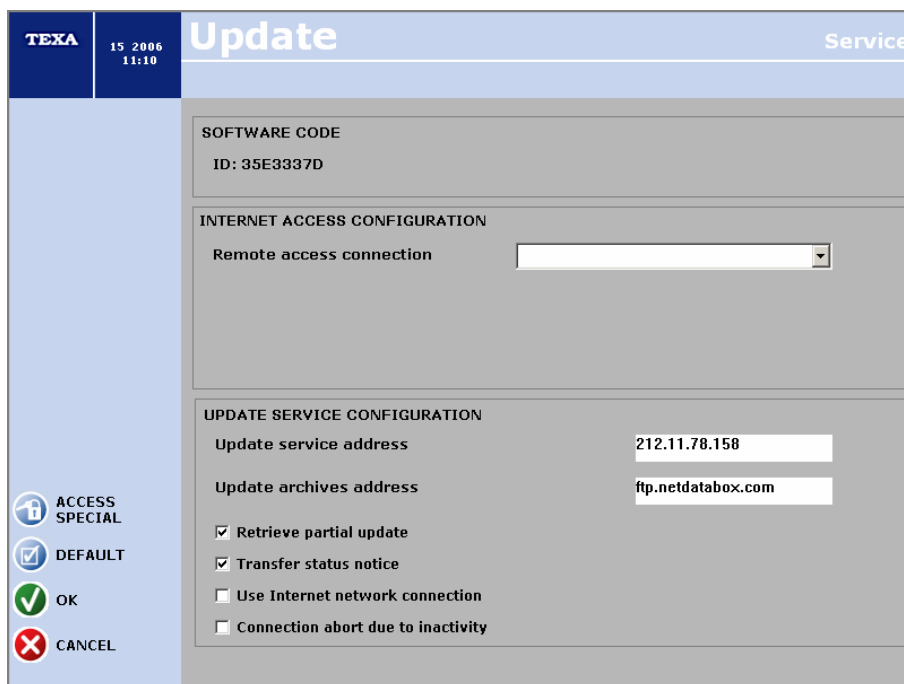
Given the variability of the Ethernet possible configurations, and since it is not possible to provide general details for the internet access definition via network, we recommend you to get in touch with the network administrator.

17.2 Internet Configuration

For configuring the Texa software through the Internet service, you have to select the function INTERNET UPDATE from the Toolbar. Then, please select SERVICE.



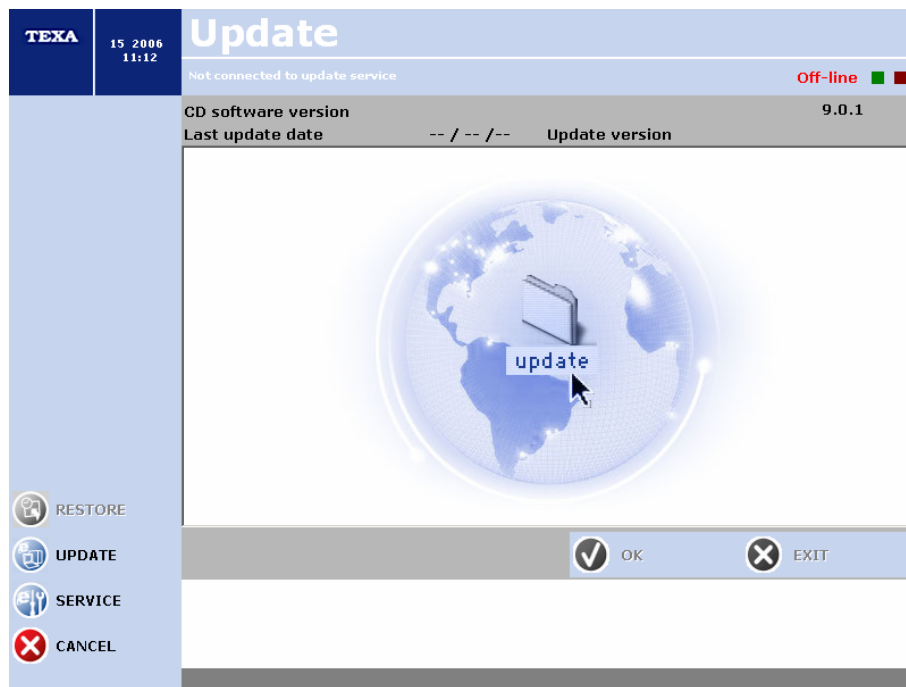
In the window given below, please select the modem connection that you wish to use, out of those that are already set in the Computer, for accessing the Internet.



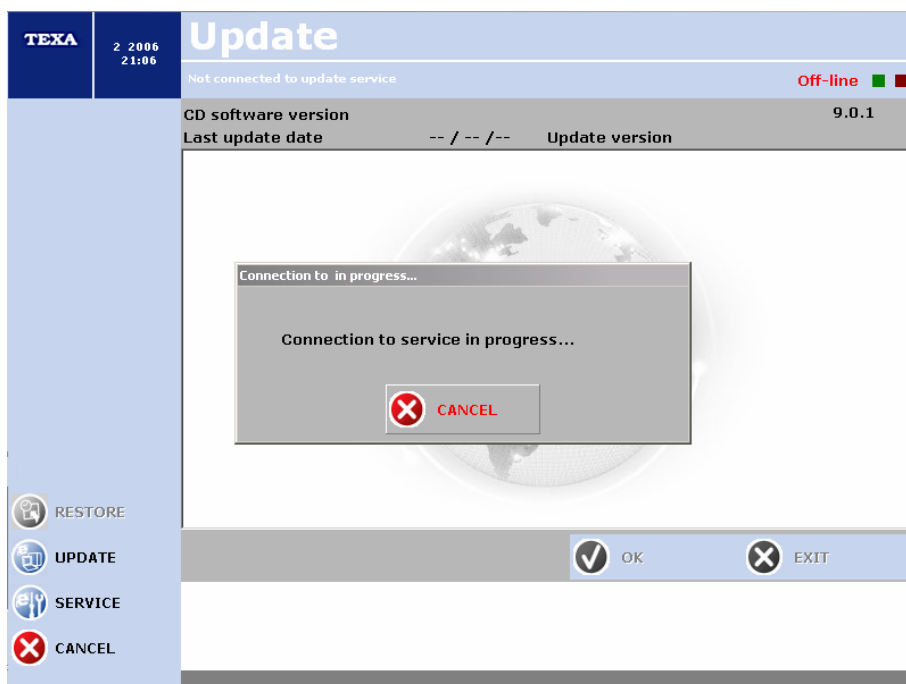
Instructions: If you wish to use the LAN connection instead of the one via phone cable modem, you must leave the box "Remote Access Connection" empty and check the option "Use connection to the Internet network"

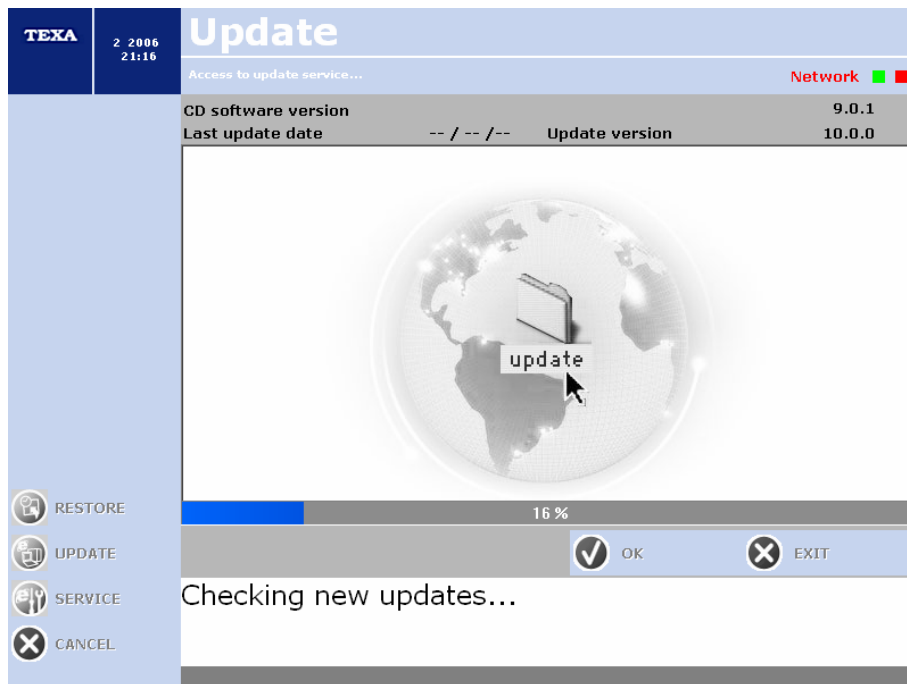
17.3 Software Update

When the Internet configuration procedure has been completed, you can update the software by pressing the key UPDATE.

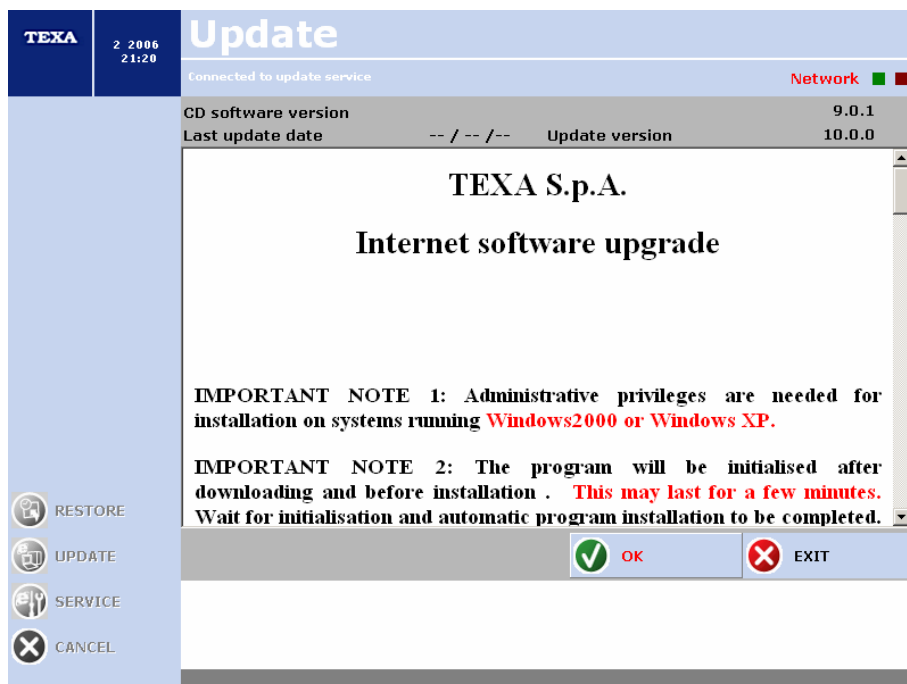


The software starts searching for available software updates and, if they are available, it will begin to install them in the desired computer.





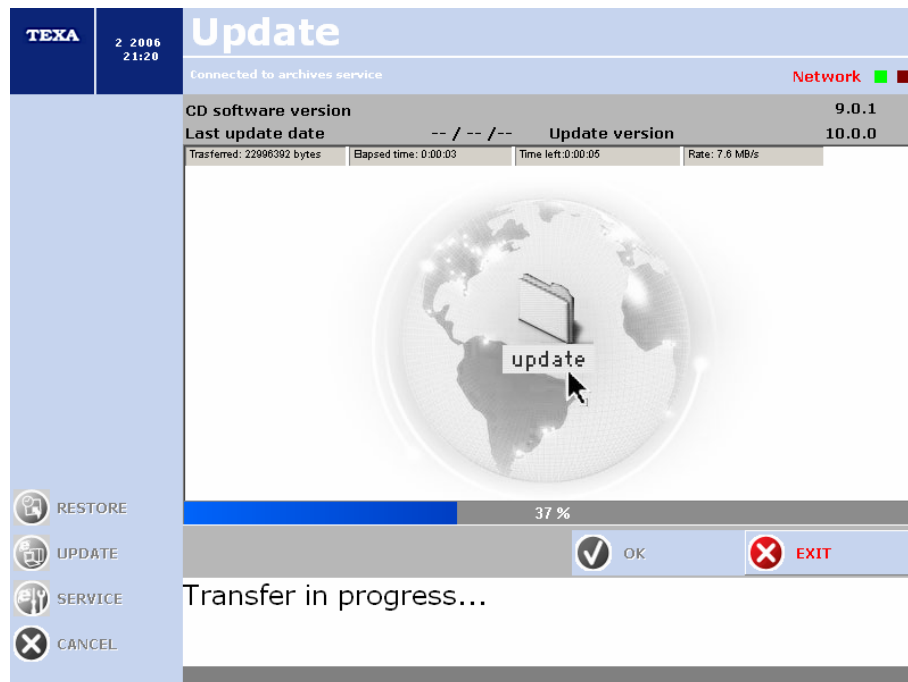
After having found an update, the following message indicating the available updates will appear.



Some information related to current software and the date of the last update and the new software version you are downloading, are available on the top right corner of the dialog window.

The button "OK" allows starting the download of the needed files. The button "EXIT" ends the operation.

On the other hand the information related to the server connection status, is displayed at the bottom. The red LED and the green LED indicate that the data transfer procedure is correctly working.



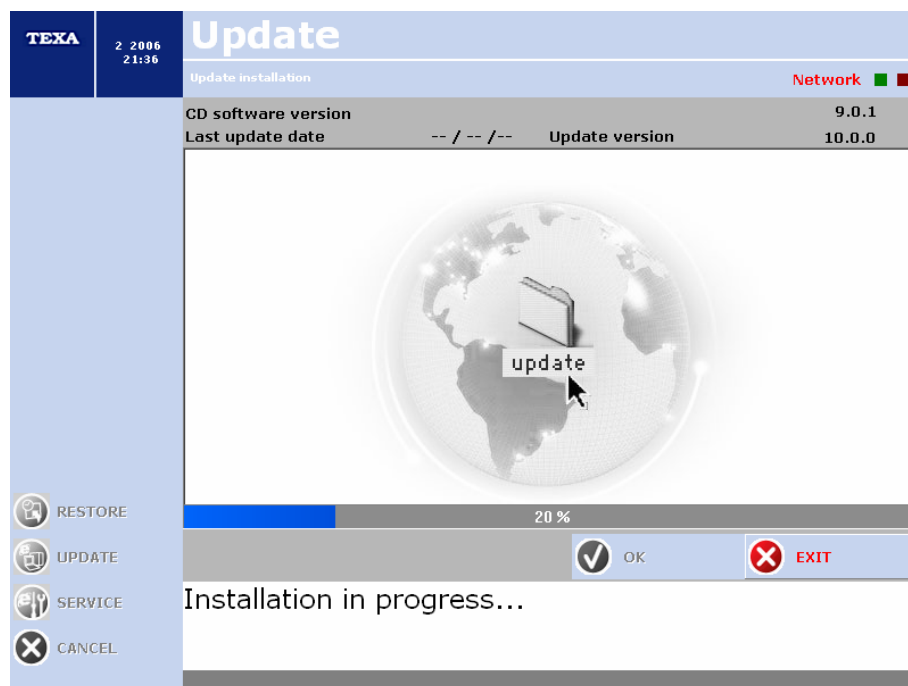
The blue toolbar shows the progress of the data transfer in percentage. Moreover the following data are also provided:

- Transferred bytes
- Elapsed time
- Remaining time
- Download percentage

The data transfer can be interrupted at any moment by pressing the button "Exit". The update automatically restarts from the point at which it was previously interrupted while connecting the next time. In this way you can download heavy updates during subsequent moments, without losing the data that has already been downloaded, even if there is an interruption of the internet connection due to cut off.



Once the file transfer is completed, please press “OK” and the program installs the received files.





When the operation is completed, please press “OK” for ending the procedure.

By pressing the button “CANCEL”, which is now active, the system will automatically reboot.

18 GLOSSARY- Meaning of the words

- **Click :** Pressing the left button of the mouse.
- **Cursor:** lightening or fixed indicator, rectangular or vertical dash shaped , indicating to the user the point in which the characters typed by the keyboard are shown
- **Default:** refers to the program configuration, value, setting etc. which are defined beforehand. The default value can then be replaced by your choice.
- **Download:** Enters “download” in the instrument, programs, information or general data. This operation usually needs the internet connection.
- **Firmware:** program (in a low level language) inserted in the hardware elements (microprocessors – storage) of an electronic system.
- **Hardware:** diagnostic instrument or elaboration and visualization system, it indicates the electrical, electronic or mechanical part of the device.
- **Icons:** small areas of the screen representing buttons and keys having symbolic drawings reminding the functions related to them.
- **Interface:** this word can be used both for referring to a hardware system and a software system indicating an element by which two different systems can exchange information.
- **Mouse:** selection device allowing to place a pointer (little arrow) on the screen. Usually provided with two buttons (left and right). With the left button you select or confirm a choice, a selection, an option etc... With the right button you usually access to auxiliary functions related to the performed selection.
- **Surfing or to surf:** word indicating the passage from a function to another one, from an information to another one, from a diagram to an instrument etc... Or more generally, it indicates the path made available by the program starting from an initial page from which the search starts up to the final one where the research is completed.
- **Peripherals:** Each device and instrument which are secondary in respect of the main unit. Examples of peripherals are; printer, exhaust gas analyzer, autodiagnosis module, DVD etc..
- **Pointer:** generally represented by a little arrow. The pointer moves on the screen with the movement of the mouse for interacting with the program functions.
- **Software:** a diagnostic instrument or an elaboration and visualization. It indicates the programs allowing the use of the hardware parts in several modes.
- **Wireless:** a connection mode between two electric systems established without using electrical cable connections.