



CAR SOLUTIONS

TEXA

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The worldwide diagnostics specialists

For twenty years now TEXA has been synonymous with automotive diagnostics all over world, with products covering electronic and electrical diagnostics, exhaust gas emissions control and vehicle air-conditioning diagnostics and recharging. TEXA has progressively developed an extraordinary worldwide network, with around 700 distributors operating in almost 100 countries.

Complete and modular offering

TEXA offers automotive technicians complete support during all stages of vehicle repairs: from analysis of fault symptoms, to identification of the right spare part. TEXA guarantees an unrivalled offering of tools and services that meet all customer requirements:



Autodiagnostics tools, on-board diagnostics, electrical diagnostics, emissions diagnostics, air-conditioning system diagnostics and maintenance.



Operating software that's always updated with vast databases of diagnostics, technical and service information.



Customer service through call centers, online repair support and an extensive database of solutions.



Specialist training through courses for automotive technicians and students of professional and technical training institutes.

Just one display tool can be used to manage all types of diagnostics operations, on-board diagnostics, electrical diagnostics, emissions diagnostics and air-conditioning diagnostics. That's not all: with the introduction of "Apps", additional services can be made available for immediate access to exclusive functions, ensuring a unique vehicle servicing experience.

Diagnostics solutions



**A highly efficient
professional partner,
an essential workmate.**



TEXA provides diagnostics solutions for five different sectors: CAR, TRUCK, BIKE, OFF-HIGHWAY (AGRI and CONSTRUCTION) and MARINE, and within each of these offers unrivalled coverage of makes and models, ranging from European to Asian and US vehicles, managed by a worldwide development team.

TEXA has developed IDC4 CAR (specific software platform for cars and light commercial vehicles), for managing all routine workshop operations.

This software provides: diagnostics resources, a database with interactive wiring diagrams, detailed system and component datasheets, technical bulletins and mechanical data. It is constantly updated by the TEXA technicians who work in the field every day, so as to extend and increase the number of makes/vehicles our diagnostics solutions can be used on, both the latest models and older versions. Product development exploits the continuous feedback received from automotive technicians, who in order to provide autodiagnosics services require accurate and up-to-date technical documents.

IDC4 VEHICLE COVERAGE

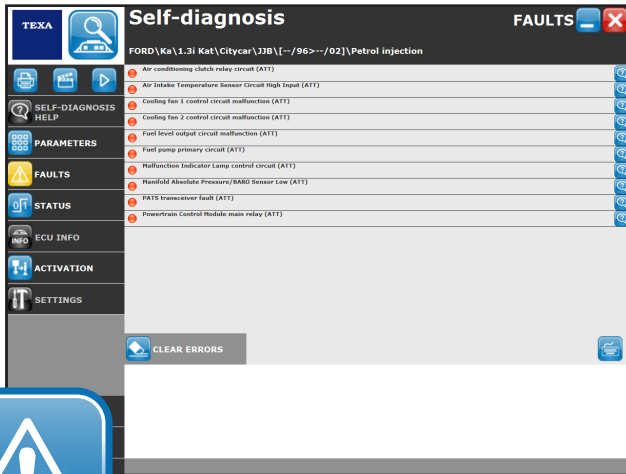
CARS AND LIGHT COMMERCIAL VEHICLES

ABARTH	GONOW	MERCEDES-BENZ	VAZ
ACURA	GREAT WALL	MG	VICTORIA GIOTTI
AGRALE	HONDA	MINI	VOLKSWAGEN
ALFA ROMEO	HUMMER	mitsubishi	VOLVO
ASTON MARTIN	HYUNDAI	NISSAN	
AUDI	IKCO	OPEL (GM)	
AUTOBIANCHI	INFINITI	PERODUA	SUPERCAR
BEDFORD	INNOCENTI	PEUGEOT	ALFA ROMEO
BIGAS	ISUZU	PIAGGIO	BENTLEY
BMW	IVECO	RENAULT	CHEVROLET
BSI VEICOLI	JAGUAR	RENAULT SAMSUNG	DODGE
CADILLAC	JEEP	ROVER	FERRARI
CHERY	KATAY	SAAB	LAMBORGHINI
CHEVROLET	KIA	SCION	MASERATI
CHRYSLER	LADA	SEAT	MORGAN
CITROËN	LANCIA	SKODA	PAGANI
DACIA	LAND ROVER	SMART	PORSCHE
DAEWOO	LANDI RENZO	SOLLERS FIAT	
DAIHATSU	LDV	SPERANZA	
DODGE	LEXUS	SSANGYONG	
DR	LOTUS	SUBARU	
FAW	MAHINDRA	SUZUKI	
FIAT	MARUTI	TATA	
FORD	MAYBACH	TOYOTA	
GAZ	MAZDA	UAZ	

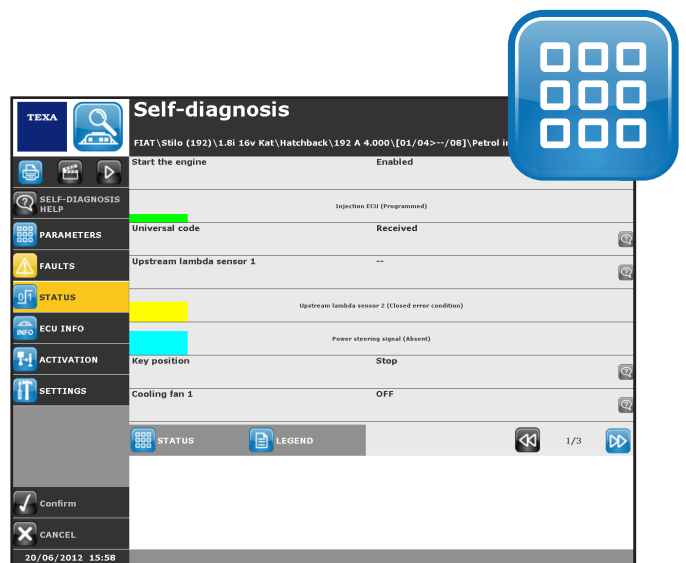
Unbeatable autodiagnosics

Autodiagnosics are the heart of the system, the main function required by technicians for efficient servicing. It is also the area where TEXA has focused its extensive know-how.

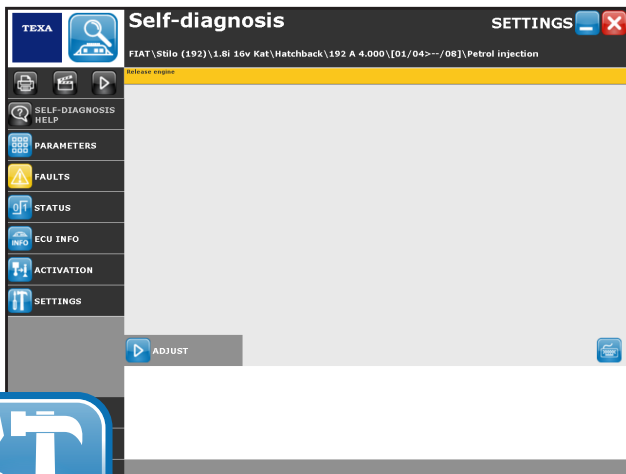
The TEXA IDC4 autodiagnosics environment provides direct access to individual functions, such as reading parameters and system status, reading errors, activation of individual components to check operation, and setting and calibration functions.



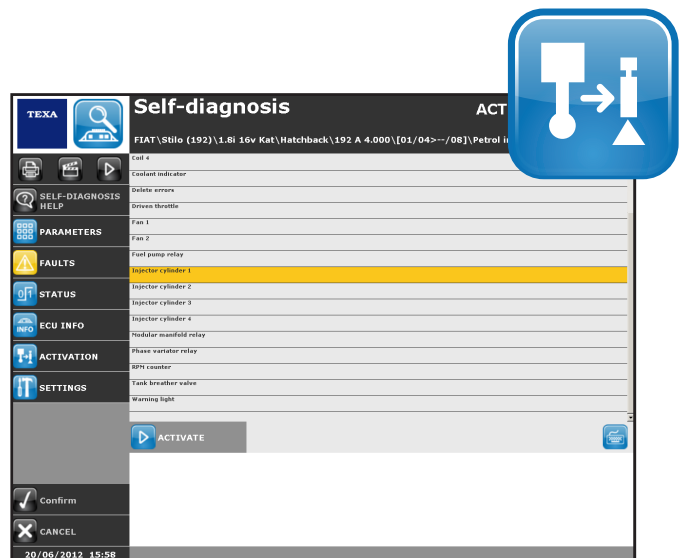
ERROR screen listing the faults/malfunctions saved in the ECU, with a detailed description of each one.



PARAMETER/STATUS screen showing the inputs and outputs managed by the ECU, displayed in numeric format and on graphs.



SETTINGS screen, offering the possibility to run the calibration, initialisation and programming functions required by the system, thus completing any repairs.



ACTIVATIONS screen, with functions for testing the components.

“SOLVED PROBLEMS” powered by Google*

This extraordinary function on IDC4 allows automotive technicians, via an internet connection and exploiting Google search technology, to access the TEXA troubleshooting database, containing solutions found by technicians all over the world and collected by TEXA's international call centres.



The procedure is very simple and intuitive: once having selected the vehicle being serviced, the technician can send a request by typing in a description of the problem, then receiving the solution in just a few seconds.

* Optional

Vehicle search by VIN

This extremely useful function lets you identify the model of the vehicle you are diagnosing rapidly and accurately on the basis of its VIN number. Vehicle searches can be performed in two ways:

1. "VIN SCAN":

With the diagnostic tool connected to the vehicle's OBD socket, this function automatically retrieves the VIN and selects the exact model of vehicle in IDC4 software.

2. MANUAL SEARCH:

If the "VIN SCAN" function fails to retrieve the VIN automatically, you can enter it manually to identify the model you are working on. IDC4 also lets you perform vehicle searches by entering the engine number or registration number. Searches performed using these methods are limited to vehicles already present in IDC4's "Customer Management" database.

TGS3s function

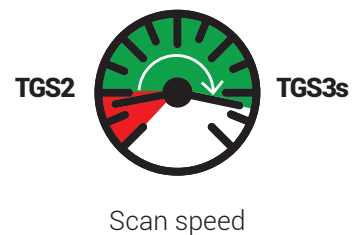
TGS3s (TEXA Global Scan 3) is an innovative function that **automatically scans all diagnosable* electronic control units on a vehicle in a matter of seconds.**







In addition to being super-fast in accessing and automatically recognising different ECUs, as soon as the scan ends and results have been processed, TGS3s displays all the **errors detected on the vehicle** along with **codes** and **descriptions**, and allows errors to be **cancelled** with a single click. As soon as the results of the scan become available, you can select any control unit from the list to run an autodiagnostic test on it. This important new function makes diagnostic operations easier than ever and can even display and print a **detailed scan report** to deliver to the customer.

The following table shows the number of ECUs installed and the TGS3s scan time for some of the most popular vehicles currently in circulation.

Make & model	ECUs installed	TGS3s scan time
Alfa Mito 1.6 JTDm	18	38 seconds
Fiat Stilo 1.9 JTD	35	80 seconds
Ford Focus 1.6i Petrol	33	30 seconds
Toyota Avensis 2.2 Diesel	28	28 seconds
Volkswagen Golf V 1.6 Petrol	36	46 seconds



-  Control unit recognised, and error/s detected
-  Control unit not recognised
-  Control unit recognised, no error/s detected
-  Control unit not found



TGS3s scanning may not function with older models of vehicle since previous generation control units may not support the latest scanning functionalities.

Unrivalled coverage

Vehicle diagnostics is TEXA's core business. To keep ahead of the competition, TEXA is committed to offering its customers the best possible coverage of vehicles in circulation. The various teams operating in TEXA's European subsidiaries have recently been complemented by new teams working directly in Asia to ensure prompt and accurate coverage for Japanese, Korean, Chinese and Indian vehicles. This network guarantees customers all over the world unrivalled coverage in terms of the number of vehicles covered and the quality of the coverage provided.

**Over 400.000
diagnostic options.**

An impressive figure indeed! TEXA's excellent coverage puts you in the ideal position to be able to handle even the most the difficult workshop tasks. Regular updates are guaranteed by subscription to TEXPACK.



























You can now visit a brand new portal to learn more about the diagnostic capabilities of IDC4 software even if you are not already a TEXA customer. To find out more, simply go to: www.texa.com/coverage.

This extremely useful portal lets you select your diagnostic environment, the type and the brand of vehicle you are interested in. Once you have done so, you can view a complete and constantly up-to-date application list with information on models, engines, systems and the diagnostic functions available for that specific vehicle.

TEXA		Diagnostic Coverage List	Latest version application list
LIGHT TRUCKS	HYUNDAI		
PASSENGER CARS	MODEL	ENGINE	SYSTEM
	Accent I [94>00] (X3)	1.3i Kat	Airbag -
	Accent I [94>00] (X3)	1.3i Kat	Airbag -
	Accent I [94>00] (X3)	1.3i Kat	Immobilizer -
	Accent I [94>00] (X3)	1.3i Kat	Petrol injection - (GEN)
	Accent I [94>00] (X3)	1.3i Kat	Petrol injection - (IMM)
	Accent I [94>00] (X3)	1.3i Kat	Petrol injection -
	Accent I [94>00] (X3)	1.5i 16v Kat	Airbag -
	Accent I [94>00] (X3)	1.5i 16v Kat	Airbag -
	Accent I [94>00] (X3)	1.5i 16v Kat	Immobilizer -
	Accent I [94>00] (X3)	1.5i 16v Kat	Petrol injection - Mitsubishi ECI-Multi
	Accent I [94>00] (X3)	1.5i Kat	Airbag -
	Accent I [94>00] (X3)	1.5i Kat	Airbag -
	Accent I [94>00] (X3)	1.5i Kat	Immobilizer -

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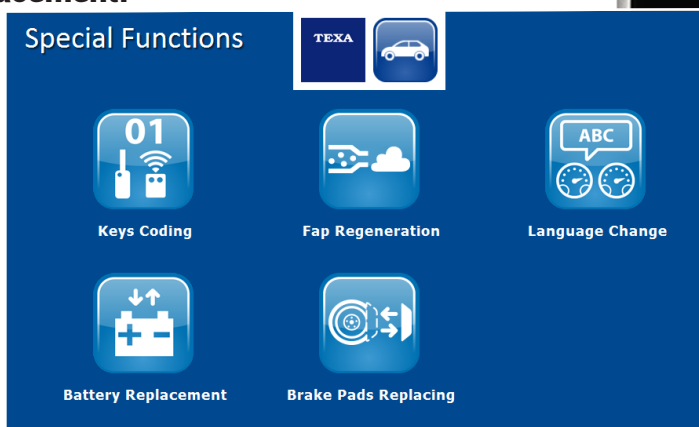
Total coverage, extraordinary functions

 Airbag	 Errors
 Parking help	 Parameter
 Alarm	 Status
 Body computer	 Settings
 Sunroof ECU	 Activations
 Windshield wiper ECU	 Self-diagnosis help
 Rescue call	 Wiring diagrams
 Doors locking	 Mechanical data
 Cabin control	 Recording of the diagnosis session (Rec & Play)
 Distance control	 Scheduled maintenance
 Steering stalk	 Component location
 Steering wheel electronics	 Printouts
 Driver side door	 Database and log of customers/works
 Passenger side door	 Spare parts management
 and many other...	 and many other...

Exclusive functions to AXONE 4 and IDC4 PREMIUM

Exclusive to **AXONE 4**, the software comes with important new features that provide concrete support for the everyday work of automotive technicians. IDC4 PREMIUM has updated and very user-friendly graphics, with the menu divided into five scrolling screens for direct access (**Diagnostics, Data, Measurements, myTEXA APP, Settings**).

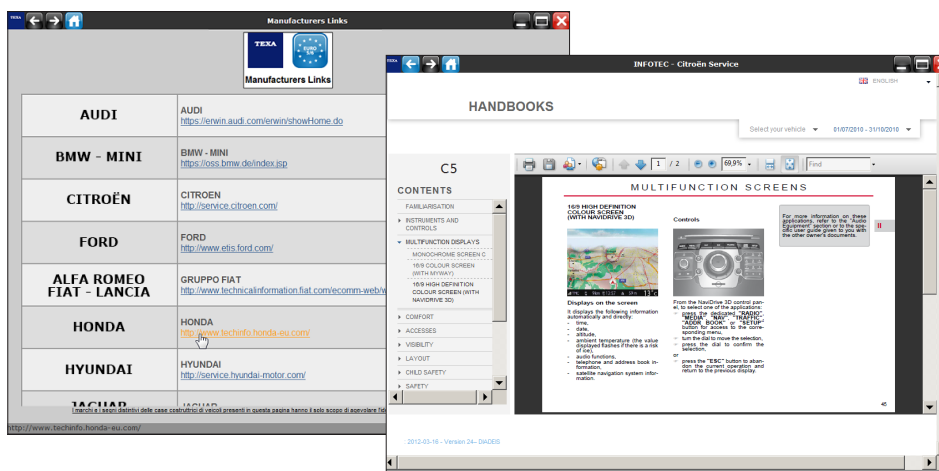
Via the Diagnostics menu, users can also access the **"Special Functions"** for carrying out frequent procedures, such as **Program Keys/Keyless Remotes, Regenerate Particulate Filter, Change Dashboard Language, Replace Battery, Brake pad replacement.**



Using the **"Remote Assistance"** function, when needed TEXA personnel can establish a remote connection to the tool and see exactly what is happening with the customer's vehicle.



The **Data** menu contains useful information for accessing vehicle technical data and locating components. One special application, the **"Manufacturer Link"**, is particularly useful as it allows direct access to all the technical information provided by manufacturers relating to the vehicle's original equipment.



The App concept*

Electronics are becoming increasingly common on modern vehicles, spreading to components that not so long ago were simply mechanical. This has created a situation in which new requirements arise due to diversification of the services offered by automotive technicians and the evolution of customer vehicle fleets.

As a consequence, automotive technicians need to carry out a much vaster range of procedures, making it harder to choose the best diagnostics tools and subscription services for their

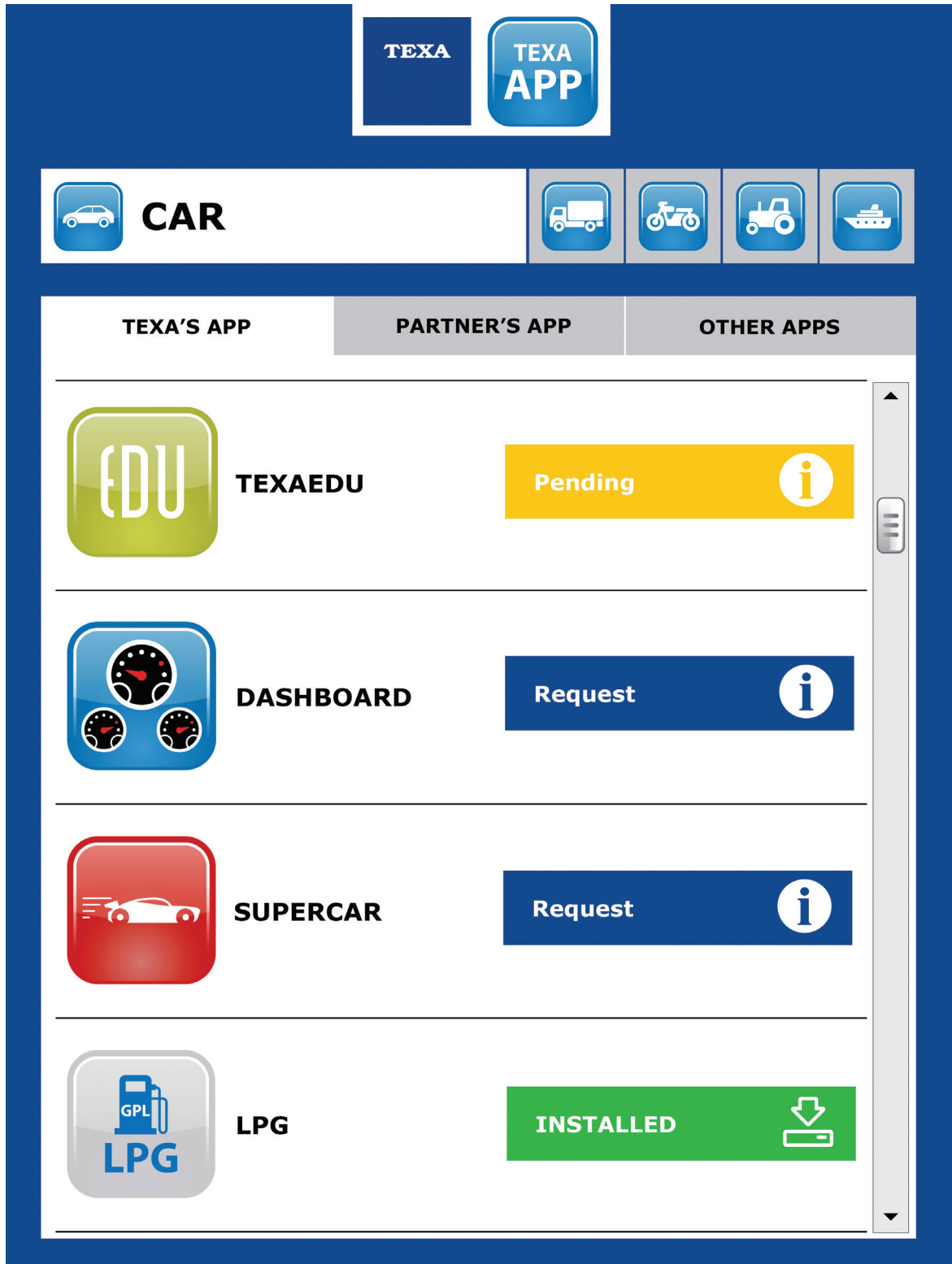


workshop. To meet these new requirements, TEXA not only provides traditional subscriptions and upgrade options, but also an innovative diagnostic "App" concept, inspired by the world of consumer electronics.



From the IDC4 main menu, customers can now access the TEXA APP, offering a list of Apps available: functions that are not available for the customer's profile are identified by a darker icon.

To order any of these Apps, customers can simply click the icon, opening a simple and user-friendly procedure to order the App from the reseller and install it on their tool.



As well as functions available on payment, free applications will also be provided, either by TEXA directly or its partners. TEXA has introduced this new concept as a way of offering automotive technicians the possibility to develop a modular tool that reflects their professional development, implementing new functions and upgrades at any time.

* Check the availability of TEXA Apps for your tool.

Multibrand diagnostics

AXONE S



AXONE S is designed to satisfy the latest maintenance needs that have emerged as a result of constant evolution in electronics, affecting all vehicle components. Today, not just mechanics but tyre fitters, suspension tuners, FAST-FIT centres and even service station operators have to be able to interface with and diagnose electronic systems.

AXONE S is TEXA's first Multiutility tool, and is currently available in DIAGNOSIS, FAST-FIT, and TPS configurations, with others due to be added in future. Specialists can therefore choose the tool most appropriate to their needs.

DIAGNOSIS Utility: satisfies the demand for a diagnostic system that is simple to use but still incorporates all the basic functions of IDC4 software (TGS3s, SCAN VIN, "SOLVED PROBLEMS", EOBD Scan Tool, etc.). This version is also ideal for garages who need a second diagnostic tool to complement their main tool or a personal tool for each mechanic. This configuration includes IDC4a DIAGNOSIS software.

FAST-FIT Utility: permits users to perform essential repair and maintenance tasks on the braking system, air conditioning system, starting system, steering and steering column systems, instrumentation, lights and even certain engine functions. This version also performs extremely useful service resets. This configuration includes IDC4a FAST-FIT software.

TPS Utility: ideal for tyre fitters who need a tool capable of performing operations connected with the TPMS system, including the reprogramming of control units. TPMS becomes obligatory in Europe from 1st November 2014. This configuration includes TPS KEY and IDC4a TPS software.

COMPATIBLE DIAGNOSIS PRODUCTS



NAVIGATOR
NANO S



TPS KEY



TEXA

View, modello e motore

- VOLKSWAGEN Golf V [05-08] (5M1)...
1.6i 16v FSI Kat Multispazio compat...
- A VOLKSWAGEN Golf VI [08-12] (6K1)
1.6i Kat Berlina 2 volumi BSE [09/08-12]
- Ir FORD Focus [08-11] Turnier
1.6i Kat Station Wagon OGD8 [-/08-...
- S ALFA ROMEO 147 [05-10]
1.9 JTD Multispazio 182 8'9.000 [06-...
- V VOLKSWAGEN Golf VII [12-] (6G1)
2.0 TDI BlueMotion



Multibrand diagnostics

AXONE 4 Mini



The AXONE 4 Mini is a compact diagnostic tool that incorporates most of the extraordinary functions that have made the AXONE 4 tablet such a success.

Its refined styling is centred on a generous 7 inch resistive touch screen offering a record resolution of 800x1280. Its Cortex A8 processor is amazingly fast and completes tasks in only half the time taken by the previous generation of tools.

Thanks to its incredible versatility, mechanics will enjoy using the AXONE 4 Mini for many years to come and keeping abreast of the latest developments in vehicle electronics.

The dedicated IDC4 PM software ensures superb usability based on swipe screens as used by today's most popular consumer electronic products. Navigating through the various diagnostic functions has never been so easy and intuitive. A Bluetooth module ensures easy communication with TEXA interfaces while a Wi-Fi card provides internet connectivity. As with all TEXA products, the AXONE 4 Mini is extremely robust, as proven by its homologation to military standard 810F and its IP42 protection rating. In short, the AXONE 4 Mini is a tough and practical tool for challenging workshop environments, with the added benefit of a protected operating system.

By installing TPS KEY, AXONE 4 Mini allows you to complete all the operations related to the electronic TPMS Tyre Pressure Monitoring System, which is mandatory starting in Europe from November 1st 2014, such as the tyre replacement, rotation and crossing, the replacement of the valve's sensor.

COMPATIBLE DIAGNOSIS PRODUCTS

									
NAVIGATOR NANO S	NAVIGATOR TXTs	NAVIGATOR TXC	TWINPROBE	UNIPROBE	GASBOX	OPABOX	RC3	RC2	TPS KEY



Multibrand diagnostics

AXONE 4



AXONE 4 is a tool designed especially to solve all problems that may occur both inside and outside the workshop. It can withstand knocks, falls, mud and dust, and is compliant with military standard MIL STD 810F. AXONE 4 communicates with all TEXA diagnostic interfaces via Bluetooth. It can connect to the workshop's network over a Wi-Fi link to download the latest database updates, or use a smartphone to connect to the internet if you are away from the workshop. AXONE 4 also has a remote assistance function to allow TEXA's experts to connect remotely and see exactly what is happening with the customer's vehicle.

The DUAL MODE function also allows simultaneous connection to two different interfaces, so that you can run autodiagnosics on one component while monitoring the signal of another on the oscilloscope, for example.

By installing TPS KEY, AXONE 4 allows you to complete all the operations related to the electronic TPMS Tyre Pressure Monitoring System, which is mandatory starting in Europe from November 1st 2014, such as the tyre replacement, rotation and crossing, the replacement of the valve's sensor.



AXONE 4 Docking Station with steering wheel clip



AXONE 4 classic Docking Station for TEXA bench or trolley



Handle



Adjustable support, to be used with classic Docking Stations for DIAG STATION, ECO STATION and Economy trolleys



DVD drive for AXONE 4



Cover



Bag



Tool case

EXCLUSIVE FOR AXONE 4

IDC4 PREMIUM software with special functions for faster access to the desired applications.

COMPATIBLE DIAGNOSIS PRODUCTS

NAVIGATOR NANO S	NAVIGATOR TXTs	NAVIGATOR TXC	OBD MATRIX	TWINPROBE	UNIPROBE	GASBOX	OPABOX	RC3	RC2	TPS KEY

WATERPROOF
&
ANTISHOCK



Multibrand diagnostics

Navigator nano S



Navigator Nano S is a latest generation vehicle interface from TEXA that lets you run all kinds of diagnostics on cars, light commercials, motorcycles, scooters, quads and jetskis.

Every aspect of the Navigator Nano S has been carefully designed and developed to fully satisfy the needs of the modern garage and to allow mechanics to complete all diagnostic tests quickly and easily.

This compact, lightweight and ergonomic interface is designed to function simply and automatically with TEXA's latest generation display units like the AXONE 4, AXONE 4 Mini, AXONE S and MULTI PEGASO.

Using a special adapter and brand-specific cables, the Navigator Nano S can diagnose vehicles with an OBD socket and even pre-OBD and BIKE vehicles.

Note: Always check what adapter cables are needed to connect the tool to specific vehicles and verify diagnostic compatibility with motorcycles.

COMPATIBLE DIAGNOSIS PRODUCTS

			
AXONE 4 MINI	AXONE 4	MULTI PEGASO	AXONE S

Multibrand diagnostics NAVIGATOR TXC



NAVIGATOR TXC is an advanced diagnostics interface for running autodiagnosics tests and displaying engineering parameters and system status, activating components and performing settings and configurations, including resetting maintenance, service and airbag indicator lights, configuring electronic control units, keys and keyless remotes. It connects via Bluetooth to AXONE 4, AXONE 4 Mini, MULTI PEGASO or to a stand-alone PC. NAVIGATOR TXC is the result of TEXA's ongoing commitment to finding solutions that can simplify the work of automotive technicians and ensure highly practical use.

NAVIGATOR TXC is compatible with the PASS-THRU protocol*, which allows any workshop to connect to each manufacturer's central server and download software packages or official technical information. The PASS-THRU function can be used whenever needing to update the software on one or more electronic control units, in the event of malfunctions.

* Go to www.texa.com/passthru to verify compatibility and the functions made available by individual vehicle makers.

COMPATIBILITY

			
AXONE 4 MINI	AXONE 4	MULTI PEGASO	WINDOWS PC

Multibrand diagnostics

NAVIGATOR TXTs



NAVIGATOR TXTs 26 pin is a powerful multibrand diagnostics and autodiagnosics tool that connects directly to the vehicle's diagnostic socket, and communicates via Bluetooth with the AXONE 4, AXONE 4 Mini and MULTI PEGASO display units, or alternatively with a Windows PC. Wireless connectivity means users can carry out diagnostics testing while being free to move around the vehicle and workshop.

NAVIGATOR TXTs can perform all common autodiagnosics tests, including: read and clear errors, display engineering parameters and activation status, set and configure oil change, service and airbag indicator light reset, ECU configuration, keys and remote controls. NAVIGATOR TXTs is compatible with the PASS-THRU protocol*, which allows any workshop to connect to each manufacturer's central server and download software packages or official technical information. The PASS-THRU function can be used whenever needing to update the software on one or more electronic control units, in the event of malfunctions.

* Go to www.texa.com/passthru to verify compatibility and the functions made available by individual vehicle makers.

COMPATIBILITY

			
AXONE 4 MINI	AXONE 4	MULTI PEGASO	WINDOWS PC






Diagnosics for tyre specialists and **FAST-FIT** centres

European legislation requires that from 1st November 2014, all vehicles destined for the transport of passengers must be equipped as standard with TPMS (Tyre Pressure Monitoring System).

TEXA has developed two solutions: a classic one, TPS, and a "plus" solution, the AXONE S TPS. The AXONE S TPS is able to diagnose malfunctions in the pressure monitoring system and dashboard warning light circuits and handle all the other tyre-related operations tyre fitters have to deal with on a daily basis, including tyre changes, summer/winter tread pattern changes and regular tyre rotations.





Diagnostics for tyre specialists and FAST-FIT centres

TPS



TPS is the basic TEXA tool for tyre-related operations. It boasts an exceptional coverage of makes and models as well as TEXA's traditionally robust design and build quality.

Functioning is extremely simple: all you have to do is select the vehicle and TPS dialogues automatically with the valve sensors. Moving the tool closer to the sensors allows you to activate them and check their efficiency even if they are in stand-by mode. The tool's own display reads out pressure, temperature and battery charge level (where available), as well as the relevant identification codes and all other diagnostic information provided by the vehicle manufacturer. The procedure is facilitated by a highly intuitive menu that guides you through the various options step by step. TPS allows tyre fitters to check the condition of TPMS sensors and replace them if necessary.

If the original valve is replaced by a universal model, TPS can even program the new valve to assign it the same identification code as the old one and link it to the receiver or vehicle control unit.

TPS also uses its radio link capabilities to provide a valuable accessory function: the tool can dialogue with remote control systems for door opening checking the battery charge level.

Diagnostics for tyre specialists and FAST-FIT centres

AXONE S TPS



AXONE S TPS is the TEXA Multiutility solution that lets you dialogue with a vehicle's TPMS system and connect to the OBD socket to reprogram tyre pressure control units. In many vehicles, especially the latest models, the TPMS control unit has to be reprogrammed every time a tyre is changed or tyres are rotated, summer/winter tread types are changed or faulty sensors are replaced.

AXONE S TPS is the best solution currently available and allows tyre fitters to perform all tyre-related operations and dialogue with the systems of all vehicle manufacturers. Simplicity is guaranteed by the Android™ operating system, which follows you step by step, and provides instant access to all menus.

Among the many advantages of this great tool are its robust design and solid build and a superb 5 inch colour capacitive touch screen that clearly displays all available functions and data.

Thanks to the Multiutility design of AXONE S, you can even install additional functions, adding FAST-FIT functionality to the initial TPS configuration, for example. In this way you can use the same tool to set up steering angle sensors, replace brake pads, adjust the height of electronic suspension systems, perform a range of tasks on the air conditioning, starting, instrument and lighting systems, adjust certain engine functioning parameters and perform service resets – an extremely useful function. With the DIAGNOSIS utility AXONE S becomes a simple diagnostic tool but extremely effective.

COMPATIBLE DIAGNOSIS PRODUCTS



NAVIGATOR
NANO S

Electrical diagnostics

TwinProbe



TwinProbe is the TEXA tool for acquiring the analogue and digital measurements needed for all conventional diagnostic testing. It comes at a lower price than UNIProbe, its “big brother”, however both share in common outstanding practicality and precision for all automotive service operations. It communicates with all TEXA display units or a Windows PC, either via a USB connection or over a Bluetooth wireless link. The tool can be managed by the IDC4 operating software, or MSS (Measurement System Software) when used on a PC.

TwinProbe includes:

- Oscilloscope: two independent analogue channels, with inputs up to $\pm 200V$, complete with SIV function for interpreting the measured signal.
- Signal generator: for simulating the pulses generated by sensors and the commands generated by control units and for testing solenoid valves, for example.
- Ammeter: for measuring electric current intensity. A BICOR clamp-on ammeter is needed to allow TwinProbe to run these tests.



COMPATIBILITY

			
AXONE 4 MINI	AXONE 4	MULTI PEGASO	WINDOWS PC

Electrical diagnostics UNIProbe



UNIProbe is a device for acquiring the analogue and digital measurements needed for all conventional diagnostic testing. It communicates with all TEXA display units or a Windows PC, either via a USB connection or over a Bluetooth wireless link. An internal lithium battery guarantees excellent autonomy. The tool can be managed by the IDC4 operating software, or MSS (Measurement System Software) when used on a PC.

Incorporates six different tools in the one unit:

- Oscilloscope: four independent analogue channels, complete with SIV function for interpreting the measured signal.
- Battery Probe: for testing the battery, as well as analysing and checking the entire starting and charging system.
- TNET: for measurement and electrical analysis of CAN automotive communication networks.
- Signal generator: for simulating the pulses generated by sensors and the commands generated by control units and for testing solenoid valves, for example.
- Multimeter: for voltage, resistance and current measurements (using a clamp-on ammeter).
- Pressure tester: for checking fuel supply and turbocharger pressure on all vehicles.

COMPATIBILITY



AXONE 4
MINI




AXONE 4



MULTI
PEGASO



WINDOWS
PC



On-board diagnostics tools

The increasingly widespread use of electronic systems on vehicles involves a number of critical issues relating to sporadic or intermittent problems that only occur in certain driving conditions and that, if not promptly solved, may undermine the automotive technician's credibility and professionalism. Moreover, diagnostics can only be performed on some more recent electronic systems when the vehicle is moving. To respond to these needs, TEXA has developed OBD Log and OBD MATRIX, two mini-tools which have revolutionised the approach to vehicle repairs.



TEXA 080 MATRIX



On-board diagnostics

OBD Log



OBD Log is an electronic device that, connected directly to the car's diagnostic socket, records engine management errors and parameters in accordance with the EOBD standard for petrol vehicles starting from the EURO 3 emissions standard, and EURO 4 for diesel engines. All this while the customer drives their car normally, consequently reducing workshop time. OBD Log can, for example, provide complete analysis of engine parameters for emissions testing, or alternatively check the right fuel/air mix for LPG engines.

At end of the period in which the vehicle is monitored, the device is removed from the car and connected to the workshop's PC. OBD Log SW Suite downloads the recorded parameters and sorts them according to individual journey, so as to further assist the automotive technician in identifying the situation in which the fault occurs.

OBD Log won the "International Grand Prix Award for Automotive Innovation" in the "Workshop Tools" category at the Paris Equip Auto show in 2009.

COMPATIBILITY



WINDOWS
PC

OBd Log SW SUITE

OBd Log SW Suite is the program used to download and display on a PC all the data recorded by the OBd Log tool over the period in which this is connected to the vehicle, so as to monitor engine management problems. It can also be used to configure the tool according to parameters such as Vehicle Speed, Engine Revs, Engine Temperature, Throttle Position and several others. In addition, it manages a database with all the tests carried out on the vehicle, sorted by date.

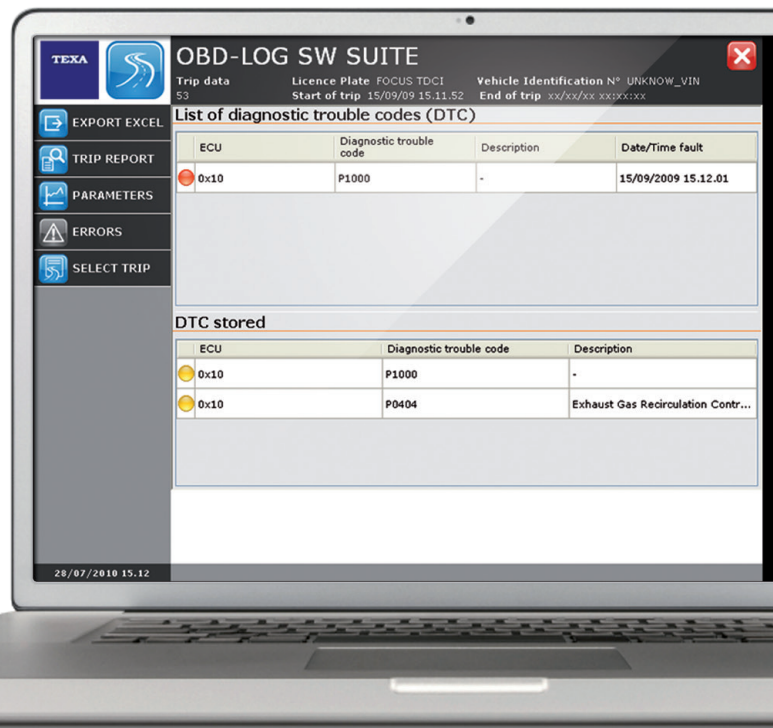


Figure 1
Tool configuration: OBd Log can be configured based on specific user requirements.

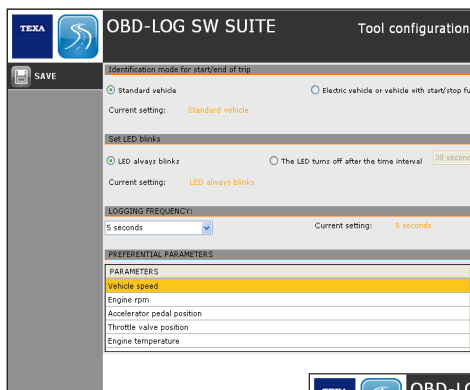


Figure 2
Errors: the software displays the list of errors identified during the various journeys.

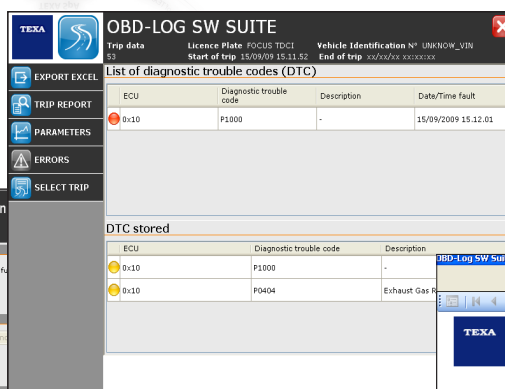


Figure 3
Error graph: the software compares errors measured against predefined engine parameters.

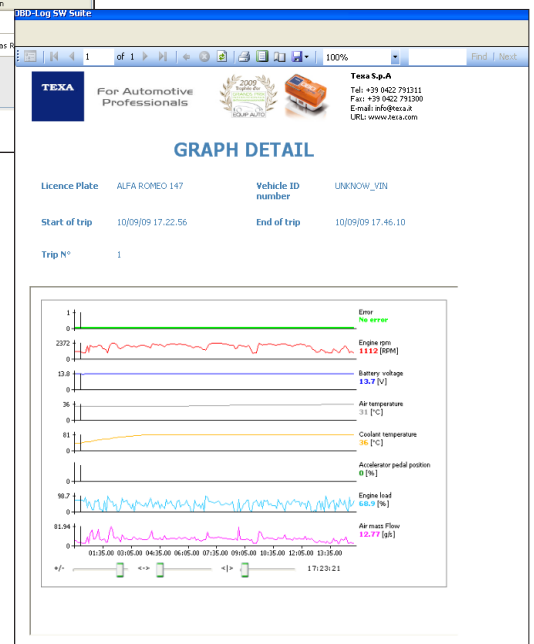
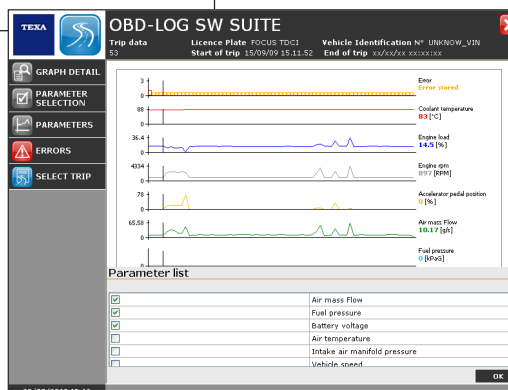


Figure 4
Graph report: a graph can be printed to give to the customer or keep as a record.

On-board diagnostics

OBD MATRIX



automechanika
innovationaward



OBD MATRIX is an innovative tool that connects to the car's OBD socket, used for diagnostics functions and setting the vehicle's accessible electronic systems (except for those relating to safety) while the vehicle is moving, meaning the vehicle spends less time in the workshop. Sporadic or intermittent faults in the various ECUs that are hard to identify when the car is stationary, are now easily resolved using this sophisticated tool.

OBD MATRIX can carry out diagnostics on all makes, models and electronic systems managed by the IDC4 MATRIX software. After monitoring the vehicle for a certain period, the automotive technician simply connects the tool to a PC and downloads the data. All the parameters recorded by OBD MATRIX can be displayed, regardless of whether these highlight any faults or unusual situations.

In 2010 OBD MATRIX won the "Automechanika Innovation Award" in the "Repair&Diagnostics" category at the Automechanika Exhibition in Frankfurt, while in 2011 it took home the "Galería de Innovación" prize in the "Electronic Diagnostics" category from the Motortec international exhibition in Madrid.

COMPATIBILITY



WINDOWS
PC



AXONE 4

IDC4 MATRIX

IDC4 MATRIX is a software that allows automotive technicians to easily and instantly control the OBD MATRIX tool for working on a large number of makes and electronic systems, reading parameters in specific engine operating conditions. It is also very useful when needing to monitor correct operation of an injector or the automatic transmission, turbo rpm sensor, oil change or air-conditioner pressure.

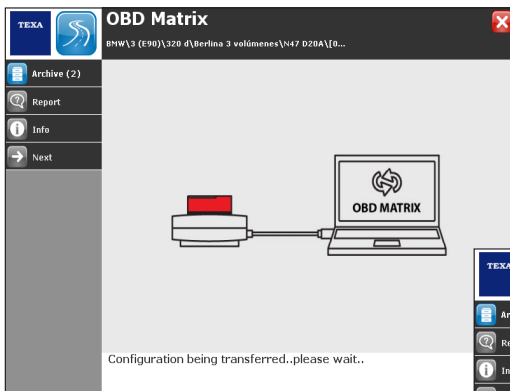


Figure 1
Tool configuration: the cradle supplied is used to configure the tool and transfer data to the PC.

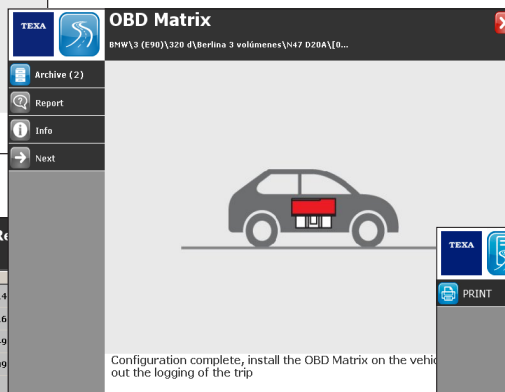


Figure 2
Tool installation: after having configured OBD MATRIX, it can be plugged into the vehicle's socket to start monitoring.

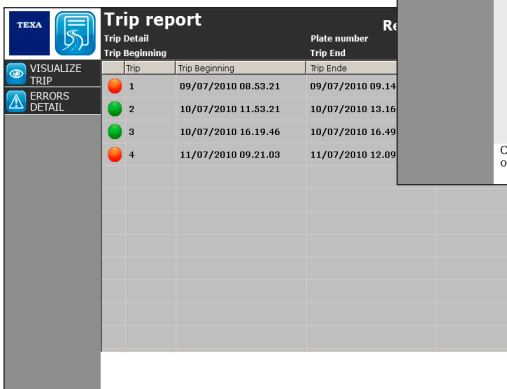


Figure 3
Journey display: when the vehicle returns to the workshop, connect OBD MATRIX to the PC again and then download the data relating to the individual journeys.

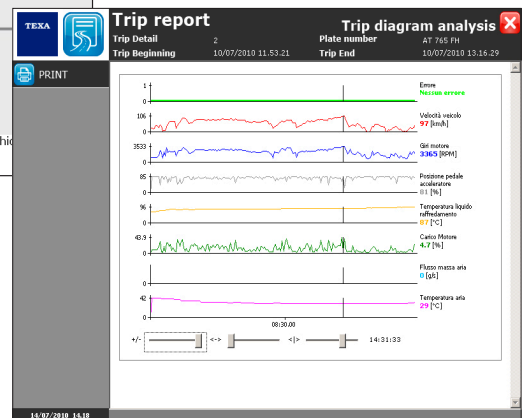


Figure 4
Journey report: graphs analysing the various journeys show the parameters recorded by the tool for comparison.

Emissions diagnostics

The TEXA solution for exhaust gas analysis includes a series of tools for performing all the tests and analyses currently required by emission control legislation: GASBOX Autopower, OPABOX Autopower, GAS Mobile, MULTI PEGASO, RC2 and RC3.



Analysis chambers



OPABOX Autopower and GASBOX Autopower are the TEXA analysis chambers used for diesel engines and petrol engines respectively, featuring a practical trolley that makes them easy to move around the workshop. To make these solutions even more flexible, as well as being plugged into any standard mains power socket, OPABOX and GASBOX can also be used with Power Pack, a practical module that is removable and rechargeable separately. This clever solution means that one or more batteries are charged and ready to use at all times.

GAS Mobile



This is a lightweight and compact portable device featuring a high-visibility graphic LCD display used to test all types of engines, running on petrol, diesel or alternative fuels. It exploits Bluetooth wireless technology to communicate with OPABOX Autopower, GASBOX and the RC2 and RC3 engine speed and temperature gauges. The lithium-ion batteries offer a full day's autonomy, meaning the device does not need to be plugged into the mains or the vehicle's power supply, and can be conveniently used inside the vehicle.

MULTI PEGASO



The MULTI PEGASO is a complete unit designed to work with all exhaust gas analysis tools. It is equipped with a 1.86 GHz, Intel Atom dual-core processor, 2 GB of RAM, 340 GB hard disk, 19" display, DVD burner and air mouse remote control. The operating system is Windows 7. Hardware also includes a Bluetooth module and a colour printer. The bottom section of the unit houses two compartments containing connectors for recharging the GASBOX Autopower and OPABOX Autopower modules. A combination of solidity and easy handling makes the MULTI PEGASO ideal for workshop use.

RC2 and RC3



Tools used to measure engine RPM and temperature that communicate with the TEXA display units and with MULTI PEGASO wireless using Bluetooth wireless technology. RC2 carries out the measurements using a microphone and based on residual battery signal, or an induction clamp via a piezoelectric sensor. In addition to these modes, RC3 can also read the data directly from the OBD socket.

A/C diagnostics stations for R1234yf and R134a

The KONFORT 700 line features seven models, with different specifications and operating modes, used for effective maintenance on both vehicles with new R1234yf refrigerant, and those using the "old" R134a. To guarantee unrivalled quality and lasting reliability, TEXA products are manufactured on highly automated assembly lines. Components and complex sub-assemblies undergo advanced computerised checks and tests at the pre-assembly stage. KONFORT features a total of eight registered international patents. The components used all have exceptional characteristics and guarantee refrigerant recovery efficiency in excess of 95%. The essential and neat design combines with easy handling, sturdiness and safety to make all maintenance operations simple and easy.



Air-conditioning diagnostics KONFORT 780R

R134a
R1234yf



This model is top of the 700 series range, and offers everything that is required for the market. The 780R version is the same size as the other units, but offers two tanks and two separate circuits for recovery, recycling and refilling, in order to operate with both refrigerants simultaneously (the original R134a and the new R1234yf). The entire service procedure is completely automated with a hermetically sealed oil/UV bottle system.

A scale locking system and automatic refrigerant leakage check. It also has a special procedure for cleaning the internal circuits during the refrigerant change procedure. The operator is able to select the correct refrigerant dependant on the vehicle's requirement. The machine carries out the flushing procedure automatically in order to clean out the system when changing from one refrigerant to the other. This procedure takes approx. one minute.

The 780R will provide a solution for workshops' who are required to deal with new vehicles fitted with the new R1234yf refrigerant, but also maintain vehicles which will continue using the traditional R134a refrigerant.

MAIN FEATURES

- Dual refrigerant management R134a & R1234yf
- High visibility colour TFT display
- Graphic interface
- DATABASE/SERVICE management via SD card
- Rotating gauge display (excluding Germany)
- 2x 12Kg tank
- Load precision +/- 15gr
- High efficiency refrigerant recovery (over 95%)
- Dual stage vacuum pump
- Hermetically sealed oil bottles
- High precision automatic oil injection
- Automatic bottle recognition
- Automatic refrigerant precision check
- Scale lock system
- Automatic service management
- Functionality:
 - DATABASE
 - PERSONALISED SERVICE
 - MY DATABASE
- Multilingual software coverage
- Service hose length compensation
- Automatic service messages
- Simplified unit service
- Automatic non condensable management
- Thermal printer

OPTIONAL

Flushing kit, VDC Kit, Climate control efficiency, refrigerant identifier, air conditioning system autodiagnosics.

KONFORT 705R



The KONFORT 705R is the latest TEXA "entry level" recharge station for vehicle air conditioning systems, designed with the precise objective of offering mechanics a simple but complete unit for all recovery and recharge jobs involving only R134a refrigerant, at an extremely competitive price.

The KONFORT 705R possesses the same basic characteristics as the other models in the KONFORT range and therefore represents an ideal solution for garages committed to offering customers impeccable service while keeping their business costs under control.

KONFORT 710R



In this period of transition from old to new gas, TEXA hasn't forgotten about recharging stations that work with R134a only, a gas still used on many of the vehicles currently in circulation.

Despite being a basic model, the TEXA KONFORT 710R provides several important functions from the KONFORT 700 line as standard, such as automatic leak detection, refrigerant weighing on electronic scales, automatic timed injection of oil and UV tracer and high-efficiency refrigerant recovery (over 95%).

KONFORT 720R



The KONFORT 720R station is ready for use on all car, commercial vehicle, HGV and tractor A/C systems, at an affordable purchase price yet without compromising on the technology of the KONFORT range. It features automatic refrigerant recovery and recycling and oil drain functions. The amount of oil and UV tracer are controlled by an automatic system, leaving the operator to carry out just a few simple manual operations. It can be purchased ready for traditional R134a refrigerant, or alternatively for the new R1234yf, where necessary changing over from one to the other using an optional retrofit kit.

KONFORT series is approved by:

BMW
CHEVROLET
HYUNDAI
JAGUAR

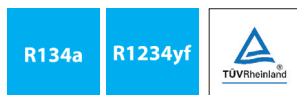
KIA
LAND ROVER
MAZDA
MERCEDES-BENZ

MINI
MITSUBISHI
NISSAN
OPEL

RENAULT
SUBARU
SUZUKI
TOYOTA

Please check at your TEXA dealer which model and which refrigerant type is recommended by the manufacturers listed above.

KONFORT 760R AND 760R BUS



Maintenance operations are completely automated, without using any manual valves. Extra features compared to version 720R are hermetically-sealed oil tanks, fully automatic maintenance management, scales locking/unlocking device and automatic checking of correct refrigerant weight.

The 760R BUS version is developed specifically for larger systems, and comes with a 30 kg tank, a 21 cc compressor and two-stage vacuum pump. The unit can be purchased ready for traditional R134a refrigerant, or alternatively for the new R1234yf, where necessary changing over from one to the other using an optional retrofit kit.

KONFORT 770S



KONFORT 770S - for R1234yf gas only - implements exclusive technological solutions based on the specifications defined by German car makers.

The refrigerant tank is fitted on sturdy electronic scales, with a safety system to prevent changes to calibration during transport.

It comes with an automatic leak detection system, combined with EN837 Class 1 certified pressure gauges, ensuring maximum precision.

Refrigerant weighing performance guarantees a maximum error of +/- 15 g.

REFRIGERANT IDENTIFIER KIT



TEXA has developed an innovative refrigerant identifier solution, the only one of its type to be made in Europe, fitted as standard on the KONFORT 770S and as an option on all other versions (except for the 705R, 710R and 720R). Covered by three registered international patents, it ensures the purity of either the R134a or R1234yf, and prevents technicians from carrying out any risky operations involving hazardous combinations of refrigerant.

Please visit us on www.texa.com/konfort

For more news and details on the innovative KONFORT 700, go to www.texa.com/konfort.

There you will find all the information, pictures and demo videos on our future-ready recharge station.

TECHNICAL TRAINING

TEXA believes customer training to be particularly important, since adequate technical competence and the correct use of diagnostic tools are critical to the success of repair work. The teaching methods used in TEXA courses are based on an ideal mix of theory and practice on vehicles. Practice plays a fundamental part, as it combines testing and simulations with use of the mechanic's own TEXA diagnostic tools, thus stimulating more active and dynamic participation and more effective learning.



GAS SPECIALIST TRAINING PATH **LPG AND METHANE VEHICLES**

Duration: 16 h

G12a FUNCTIONING AND DIAGNOSTICS OF METHANE SYSTEMS

Duration: 8 h

Functioning and diagnostics of the latest generation of methane systems developed by leading manufacturers (Landi, BRC, etc.) and leading OEMs (Fiat, Volkswagen, etc.). In-depth information and practice in diagnosing various systems; adjustment, configuration and calibration using TEXA diagnostic tools.

G12b FUNCTIONING AND DIAGNOSTICS OF LPG SYSTEMS

Duration: 8 h

Functioning, diagnostics and evolution of LPG systems. In-depth information and practice in fault-finding using manufacturers' calibrations. Injector servicing and calibration procedures; calibration and switching of gas-petrol systems using the LPG application available on TEXA's advanced diagnostic tools.



DIAGNOSTIC TECHNICIAN TRAINING PATH **ELECTRONICALLY CONTROLLED TRANSMISSIONS**

Duration: 16 h

S5a FUNCTIONING AND DIAGNOSTICS OF ROBOTISED GEARBOXES

Duration: 8 h

The principle of functioning of electronically controlled robotised gearboxes; distinguishing between standard and dual clutch gearbox configurations; in-depth information on how to use autodiagnostic resources to detect errors and set parameters, calibrate and align the speeds of Selespeed, Volkswagen DSG gearboxes and the Mercedes gearbox in the SMART. Maintenance and methods for adding oil and changing filters.

S5b FUNCTIONING AND DIAGNOSTICS OF AUTOMATIC GEARBOXES

Duration: 8 h

Functioning of continuously variable transmissions (CVT) and automatic transmissions (AT) with planetary gearsets. Functioning of the torque converter, gearbox oil pump, planetary gears, and mechatronic gearbox brakes and clutches. Diagnostic and configuration procedures for the ECUs of the Mercedes 7G Tronic AT and the ZF 6HP transmissions adopted by BMW, AUDI, LAND ROVER and JAGUAR. Oil changes, oil levels and filter changes.



CERTIFICATION FOR PERSONNEL RECOVERING **FLUORINATED GASES FROM VEHICLE AIR CONDITIONING** **SYSTEMS – EC REGULATION 307/2008**

Duration: 8 h

DPR 43/2012 AIR CONDITIONING QUALIFICATION COURSE

Duration: 8 h

Following the issue of Presidential Decree 43 of the 27th January 2012, implementing EC Regulation 842/06, personnel responsible for the recovery of fluorinated greenhouse effect gases from vehicle air conditioning systems must hold the necessary certification even in order to perform simple tasks like recharging and testing. TEXA's trainers are authorised to issue the necessary certificates at the end of this mandatory training course. This mandatory training course satisfies the minimum requirements of EC regulation 307/08. It teaches all the necessary skills, provides essential information on applicable legislation, and enables you to work in complete safety. In addition to satisfying legal requirements, the course also looks in greater detail at diagnostic procedures for electronically controlled air conditioning systems and the special technology found in the air conditioning systems of hybrid vehicles.



HYBRID SERVICE TRAINING PATH

HYBRID AND ELECTRIC VEHICLES WITH PES/PAV CERTIFICATION

Duration: 28 h

G11 FUNCTIONING AND DIAGNOSTICS OF START&STOP AND HYBRID SYSTEMS Duration: 8 h

Architecture and functioning of "Micro Hybrid" (Start & Stop) systems on Fiat, Citroën and BMW, and "Mild Hybrid" systems on Honda and Volkswagen. Methods for starting, recharging and energy management. Case studies with diagnostics applied to vehicles with the Citroën C4, BMW Series 1, and FIAT Start&Stop system. Reading parameters and errors, configuring the battery and calibrating the various systems using a diagnostic tool.

S7 FUNCTIONING AND DIAGNOSTICS OF THE TOYOTA HYBRID SYSTEM Duration: 8 h

Functioning and description of Toyota hybrid system components: MG1 and MG2 engines, inverter group, HV battery pack, location of control units and hybrid circuit devices. Functioning of the 1 NZ FXE engine and BUS networks, architecture of the low and high voltage electrical networks and repair procedures performed with the aid of autodiagnostic resources. Methods for recovering the vehicle, starting with an auxiliary battery and rendering safe.

Pes/Pav PES/PAV QUALIFICATION: SAFETY IN HYBRID AND ELECTRIC VEHICLES Duration: 12 h

Course leading to the qualification to perform work according to CEI EN 11-27 standard involving electrical risks on electrical or hybrid vehicles, necessary to comply with the requirements of Legislative Decree 81/2008 governing the safety of workers. In-depth information on ensuring the safety of the various types of vehicles currently in circulation, their maintenance and recovery and the replacement of batteries.



DIAGNOSTIC SPECIALIST TRAINING PATH

ADVANCED ROADSIDE DIAGNOSTICS & TROUBLESHOOTING

Duration: 24 h

D1.2 DIAGNOSTICS AND CONFIGURATION OF ELECTRONIC COMPONENTS Duration: 8 h

Diagnostic and troubleshooting procedures based on the reading of errors recorded in control units and interpretation of the engineering parameters of TEXA diagnostic tools. EOBD diagnostics and procedures for resetting electronic components following replacement or maintenance using common autodiagnostic operations on FIAT, BMW, FORD, VOLVO, VAG Group, Renault, etc..

D5 ADVANCED ROADSIDE DIAGNOSTICS & TROUBLESHOOTING Duration: 8 h

Troubleshooting based on real case studies and autodiagnostic parameter records obtained using on board tools like OBD MATRIX and OBD Log, and the Rec & Play function of IDC4 PLUS and PREMIUM. On board diagnostics permit the early identification of engine problems by checking and monitoring all the car's centralised functions.

D3.4 RESET AND CONFIGURATION TECHNIQUES Duration: 8 h

This course teaches the procedures for diagnosing and configuring different latest-generation electronic systems. Engine management, automatic gearboxes, DPF regeneration, AD Blue system, CAS system, electronic brakes, CAN networks, air-bags, battery encoding, brake pad replacement, wheel alignment system and transport mode switching. General information and explanation of the system' in-depth information on autodiagnostic, resetting, setting, activation functions etc. and when and how to use them.

TEXA

TEXA was established in 1992 in Italy at Monastier di Treviso, and today is a European leader in the design and production of multibrand diagnostics tools, exhaust gas analysers and air-conditioning maintenance stations. TEXA has operations virtually all over the world, through an extensive distribution network, while in Spain, France, Great Britain, Germany, the United States, Poland, Russia and Japan, it markets its products directly through its own branches. TEXA now employs some 450 people around the world, including more than 100 engineers and specialists working in Research and Development.

TEXA has also received extensive international recognition over the years: the company won the prestigious Frost & Sullivan award in 2006 and 2007, received the GIPA (Groupement Inter Professionnel de l'Automobile) prize in 2009 for the TEXAEDU program and again in 2013 for Communications. In 2009 TEXA won also a gold medal at the Grands Prix Internationaux de l'Innovation Automobile in Paris. In 2010 it won the Innovation award at Automechanika Frankfurt, and in 2011 the "Galeria de Innovacion" prize at Motortec in Madrid. In 2011, the President of the Italian Republic Giorgio Napolitano presented founder and CEO Bruno Vianello with the national award for Italy's most innovative company. All TEXA tools are designed, engineered and built in Italy, using modern automated production lines, a guarantee of maximum precision. TEXA focuses careful attention to product quality, and has obtained certification in accordance with the strict ISO TS 16949 requirements for suppliers of original equipment to the automotive industry.



To check out the extensive coverage of TEXA products, go to:
www.texa.com/coverage

To check on IDC4 compatibility and minimum system requirements, go to:
www.texa.com/system

WARNING

The trademarks and logos of vehicle manufacturers in this document have been used exclusively for information purposes and are used to clarify the compatibility of TEXA products with the models of vehicles identified by the trademarks and logos. Because TEXA products and software are subject to continuous developments and updates, upon reading this document they may not be able to carry out the DIAGNOSTICS of all the models and electronic systems of each vehicle manufacturer mentioned within this document. References to the makes, models and electronic systems within this document must therefore be considered purely indicative and TEXA recommends to always check the list of the "Systems that can be diagnosed" of the product and/or software at TEXA authorized retailers before any purchase. **The images and the vehicle outlines within this document have been included for the sole purpose of making it easier to identify the vehicle category (car, truck, motorbike, etc.) for which the TEXA product and/or software is intended.** The data, descriptions and illustrations may change compared to those described in this document. TEXA S.p.A. reserves the right to make changes to its products without prior notice.

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TEXA

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