

BIKE Solutions



www.texa.com

TEXA



GLOBAL SPECIALISTS IN DIAGNOSTICS

TEXA has always been a reference point in the world of automotive equipment, and this leading position has been consolidated through the design and manufacture of innovative tools for electronic autodiagnosis, electrical diagnosis, exhaust gas analysis and air conditioning system service stations, for use on cars, trucks, motorcycles, agricultural vehicles and marine applications. Over the years, TEXA has built up an extensive global network of over 700 distributors in over 100 countries.

A complete and modular offer

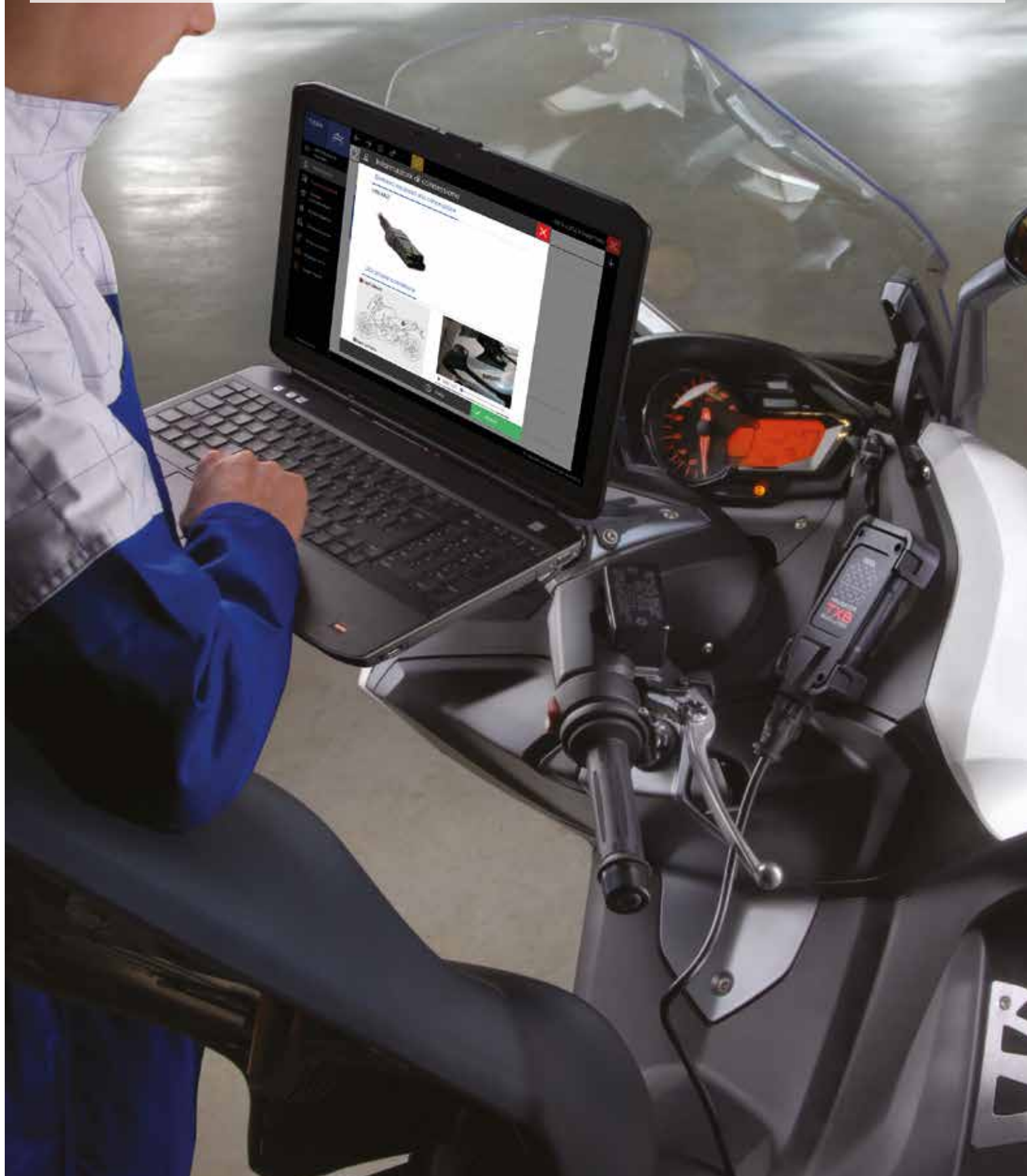
TEXA offers the technician total assistance during all phases of a repair, from the analysis of fault symptoms to the identification of the right spare part. TEXA boasts an unrivalled offering of tools and services designed to satisfy all possible needs. From dedicated workshop tools to operating software, specialist training and customer services.



IDC5 SOFTWARE

Diagnosis without frontiers

IDC5 is the latest generation of TEXA's renowned operating system, and another step forward to assist technicians. Thanks to major improvements in code the new system is faster than ever and guarantees virtually instant communication with a vehicle's control units.



An even more intuitive software interface

The graphic interface of IDC5 is designed to resemble the latest consumer applications, **simplifying and making the various steps** in maintenance and repair procedures **more intuitive**. On top of this, all diagnostic pages have been redesigned to give a fuller view of the most relevant information and the menu has been revised and is now arranged vertically. This new solution lets you scroll rapidly through all available options without ever having to change pages. A simple touch is all that is needed to zoom in on the functions you want.

The new "Interactive Wiring Diagrams" function lets you view wiring diagrams using animations of a system's devices and an interactive map generated to show signal flows to and from the control units. Another new function allows you to view and manage vehicle parameters. These can be displayed in graphic form and can be filtered using text searches or by selecting those specifically required. Even the **downloading of updates is faster** in the new software. IDC5 is constantly evolving and is open to new technologies that appear in the near future.



A whole world of functions and services

IDC5 provides an extensive series of exclusive functionalities developed and optimised by TEXA's own R&D department.



SOLVED PROBLEMS powered by Google™

Implemented in **collaboration with Google**, this amazing function allows you to access TEXA databases easily, to search for repair procedures already encountered and registered by our international call centres. Vehicle repairers can access **thousands of practical troubleshooting cases**, tested on site by mechanics all over the world, **24/7**.



Vehicle search

This function makes finding the vehicle you are working on easier and more accurate than ever. In addition to the classic selection process based on make, model, engine number and year of manufacture, the function now offers two new search modes: MANUAL and AUTOMATIC.

MANUAL

By registration number: This function lets you search for a vehicle in the customer management database. You can select a vehicle from those available in IDC5 and access the functions available for it, simply by entering its registration number.

By VIN: Using this method, you correctly identify the vehicle by entering its frame number (VIN) manually. As soon as you key in the 17 characters of the VIN and start the search, IDC5 lists the vehicle or vehicles available for selection.

NOTE: This function is currently available for BMW, HARLEY-DAVIDSON and MV AGUSTA.

AUTOMATIC

Identify and select the right vehicle in just a few clicks. All you have to do is click on the function button, located near the manufacturer, then connect the diagnostic tool to the vehicle. After scanning the various ECUs, IDC5 automatically selects the right vehicle.

NOTE: This function is currently available for BMW, HARLEY-DAVIDSON and KTM.



Rapid Diagnosis

Vehicle systems can be accurately diagnosed and the right model selected in just a few clicks. Simply click on the desired function button, located near the brand, then connect the diagnostic tool to the vehicle. The software accesses the injection system directly or runs a scan and lists all the systems available for diagnosis. This function is currently available for a number of makes, including Honda and Suzuki.



Nominal Values

This function provides practical datasheets listing reference values for each individual electronic component involved in autodiagnosis, as well as solutions to possible problems. This information can be consulted directly even during autodiagnosis, simply by clicking on the DOCUMENTATION icon. To make searches easier and more intuitive, data is arranged by system and specific device or by error code.



Global Scan

In addition to extremely thorough diagnostics, TEXA also offers customers a number of special functions. These include Global Scan, which scans the entire vehicle for ECUs, reads their contents and detects any recorded errors. Global Scan is currently available for the following makes: DUCATI, BMW, HARLEY DAVIDSON, SEA-DOO, CAN AM, SKI-DOO, LYNX, MV AGUSTA, HONDA.



Special Functions

This section provides special functions applicable to the selected vehicle, such as the CIP function for BMW (changing display settings, activating heated grips, etc.) and special settings for Harley Davidson (idle setting, activating/deactivating Active Exhaust Control).



Freeze Frame

Freeze Frame lets you view the display of parameters and data detected and recorded at the moment a fault occurs. The actual information displayed by Freeze Frame may vary from one vehicle manufacturer to another and from one type of system to another.



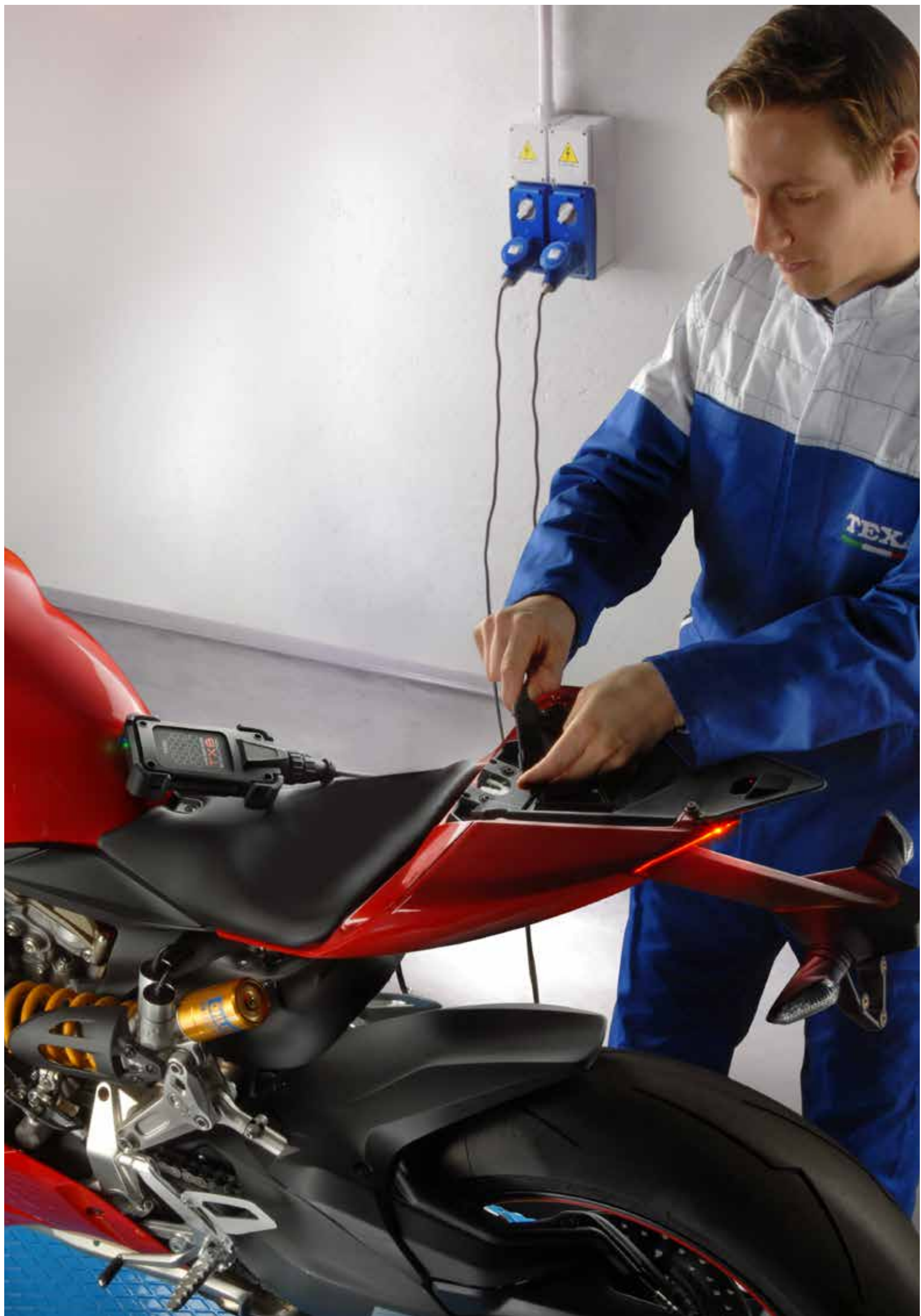
Wiring Diagram Detail

This function makes an instant link between the error read from the control unit and the corresponding component on the wiring diagram. From the wiring diagram you can access the test functions and device descriptions typical of the IDC5 operating environment.



Error Help

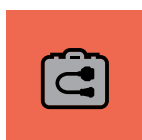
"Error Help" is the easiest and most accessible way to obtain information on errors. The help content provides useful information on the meaning of error messages and if necessary, on what checks to perform first.





Recording of diagnostic sessions Rec & Play

A fault may occur in a vehicle under specific operating conditions only: for example, power may be lost only when driving uphill or when the engine is under a high load, or perhaps a warning light comes on only when the engine is hot. Under conditions like these, the Rec & Play function offers the perfect solution, as it lets you record parameter values and any errors that occur during a road test. Data can be viewed and analysed later and even printed out as a report on the test.



Cables APP

This App provides useful help on the availability and use of diagnostic cables, for which no standard yet exists. The app consists of four sections that provide access to a list of all the cables used by the software, a list of the cables used by each manufacturer, a list with descriptions of catalogue cable cases and information on the adapters required for use with tools compatible with other environments.

Support for Autodiagnosics

Technical Data sheets and Wiring Diagrams provide detailed information on the functionalities of individual systems to support autodiagnostic tests. In addition, users can also look up specific mechanical data for each vehicle.



Data sheets

TEXA's technical bulletins provide superbly accurate information on the selected vehicle, including instructions for performing a manual reset after servicing, overviews of specific mechatronic systems and much more besides.



Interactive wiring diagrams*

Interactive Wiring Diagrams let you perform more detailed fault finding by interacting with the various components shown in them. You can select specific components to identify their cables and their electrical and logical connections to other components on the wiring diagram. Another function lets you see the direction of signals, showing whether they are inputs to or outputs from the control unit. You can also see the correlation between ECU pins and device pins and use interactive links between pages to view associated data sheets and connections.

*Present only in part of the wiring diagrams. Increasing with the various updates.

Diagnostic solutions

TEXA's diagnostic solutions are based on the powerful **AXONE 5** and **AXONE Nemo** display units and on the robust **NAVIGATOR TXB Evolution** interface. These devices interconnect via Bluetooth and communicate with the vehicle's electronic control units. They guarantee levels of speed and performance that are simply unrivalled in the world of multi-brand diagnostics. TEXA devices provide unique support for today's vehicle technicians and also stand out for their ease of use and versatility. All TEXA interfaces are fully compatible with standard personal computers.





AXONE 5

AXONE 5 is the complete, easy-to-use tool for all the diagnostic operations in the **CAR** and **BIKE** environments.

It has a **9.7 inch** capacitive **touch screen** with a **resolution of 2048x1536 pixels** and a 5-megapixel camera with flash and autofocus.

Inside, a quad-core ARM® Cortex® A9 processor provides the tool with high computing power.

Thanks to the software **IDC5a PLUS**, AXONE 5 is quick and intuitive, the ideal solution for those who wish to have the utmost diagnosis available on the market with a limited investment.

DIAGNOSTIC
SOLUTIONS





AXONE Nemo

The AXONE Nemo is the most technologically complete and powerful display unit on the market today, with characteristics easily comparable to those of leading commercial tablets. Unlike a tablet, AXONE Nemo is incredibly solid and **capable of resisting to strong shocks**, including falling in water: thanks to a special TEXA patent, the Nemo is the world's only PC-type device that floats*. The casing of the AXONE Nemo is made entirely from magnesium, a noble metal that stands out for its light weight and efficient heat dispersal. This high level of functionality is equalled by TEXA's traditional attention to style: the Nemo is not just practical but attractive too. It is also packed with advanced technology, starting from a **12-inch capacitive touch-screen** with the impressive **resolution of 2160x1440**, with tough **Gorilla Glass** protection.

The heart of the Nemo is an Intel® Quad Core N3160 processor with 8 GB of RAM and 250 GB of storage. Connectivity is guaranteed by an advanced, double channel Wi-Fi system and a Bluetooth® 4.0 Low Energy module. Another distinctive feature is the presence of two 5 megapixel cameras, one forward facing and one rear facing complete with flash/torch and autofocus.



*Impermeability and floatability are features that are available purchasing the special "AXONE Nemo Waterproof" version.





NAVIGATOR TXB Evolution

The NAVIGATOR TXB Evolution is a **latest-generation interface**, a state-of-the-art tool especially developed **for the motorcycle environment**.

Its hardware features make it compatible with all current protocols and its integrated **16-pin CPC connector** allows the use of all the BIKE diagnostic cables. Other than the "classic" diagnosis, it also allows recording the diagnostic session while moving*.

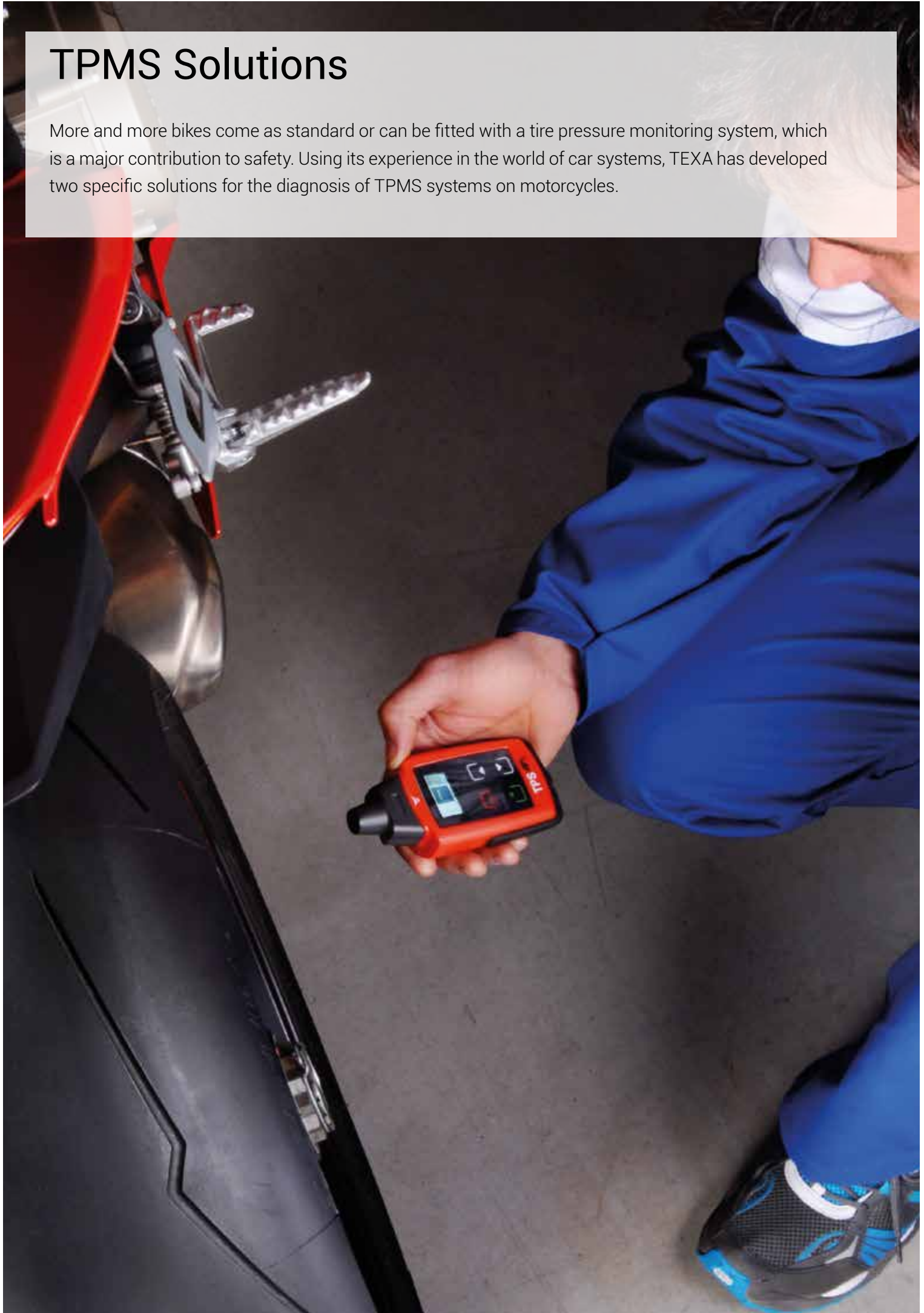
DIAGNOSTIC
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*For the diagnostic tests while moving, carefully read and follow the prescriptions you find at: www.texa.com/test-drive. TEXA S.p.A. is not liable for any damage resulting from an improper and non-compliant use of the indications, the sequences and the phases indicated in the page mentioned above, in the guide and in the product's user manual.

TPMS Solutions

More and more bikes come as standard or can be fitted with a tire pressure monitoring system, which is a major contribution to safety. Using its experience in the world of car systems, TEXA has developed two specific solutions for the diagnosis of TPMS systems on motorcycles.



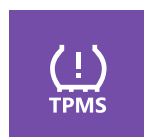
TPS

The TPS communicates with the valve sensors on each wheel, which activates them if they are in standby and verifies their efficiency. The tool's display reads out pressure, temperature and battery charge level (where available), as well as the identification codes and other diagnostic information provided by the vehicle manufacturer. TPS lets you check the efficiency of tire pressure sensors so that you can change them if necessary. TPS can be used to activate sensors when they are being initialised with IDC5 software.



TPS2

This tool has been specially designed for tire specialists and for a complete, professional use with TPMS systems. Its most noticeable characteristics include robustness, speed and user-friendliness. The TPS2 boasts a generous, high resolution colour display that makes reading data and using the tool easy even in bright sunlight. TPS2 has an 8 GB internal memory to store and recall the reports of the operations carried out on customer motorbikes at any time.



TPMS Repair APP

By activating the TPMS Repair APP in combination with TPS or TPS KEY, you can accurately perform all tire-related operations that tire specialists and FAST-FIT centres carry out every day.

Electrical diagnostics

In many cases, autodiagnosics cannot provide the answer. If a vehicle's ECUs have no errors logged, the problem may well lie in an electrical or mechanical failure. Conventional diagnostics are needed in these circumstances and analog and digital measurements are taken to determine the efficiency of components like the battery, sensors, actuators and CAN network. TEXA's UNIProbe and TwinProbe interfaces let you make all the physical measurements you need to perform a conventional diagnosis and identify potential faults.



UNIProbe

The UNIProbe includes:

- **Oscilloscope:**

four independent analogue channels, complete with SIV* function for interpreting measured signals.

- **Battery Probe:**

for testing the battery, analysing and checking the entire starting and charging system.

- **TNET:**

for the 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 testing solenoid valves and other components.

- **Multimeter:**

for voltage, resistance and current measurements (using a clamp-on ammeter).

- **Pressure Tester:**

for checking fuel supply and turbocharger pressure on all vehicles.



TwinProbe

The TwinProbe includes:

- **Oscilloscope:**

two independent analogue channels with inputs up to $\pm 200V$, complete with SIV* function for interpreting measured signals.

- **Signal Generator:**

for simulating the pulses generated by sensors and the commands generated by control units and testing solenoid valves and other components.



*Indication of the range of values that the working component should measure



TTC

The TTC is a special tool for checking the tension of engine cam belts, **developed to Ducati's own specifications**. The TTC measures belt tension by means of a highly sensitive microphone that allows the belt's resonant frequency to be analysed. It requires **no cables** and is self-powered by rechargeable batteries (battery charger supplied).

The TTC does not need to be connected to any other tool as it displays results directly on its screen. Compact and lightweight, the TTC combines advanced technology with a uniquely convenient and practical design that lets you check and adjust cam **belt tension accurately** and professionally.

ENGINEERED TO DUCATI SPECIFICATIONS



ALSO FOR DRIVE BELT
YAMAHA TMAX 530

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, CS9000, GAS Mobile, MULTI PEGASO 3, RC2, RC3, RCM.





Future-proof solutions for PTI center

Exhaust gas analysis is one of the most delicate and important phases in the mandatory testing of old and new motor vehicles. In recent years, advances in technology have led to the development of vehicles that are far more efficient in terms of exhaust gas emissions. Even these vehicles, however, need to be tested and certified to ensure that their emissions remain within the limits established by law. As time passes, emission limits are also becoming stricter, requiring the use of advanced technology to carry out the necessary tests. The demand for exhaust gas analysis tools is therefore constantly growing, not only from authorised vehicle test centres but from conventional garages too. TEXA has the solutions to satisfy that demand. TEXA's innovative exhaust gas analysis products are designed for use by test centers and garages performing pre-test checks. These easy to use tools incorporate TEXA's own, patented measuring technology and ensure accurate and reliable exhaust gas analysis in conformity to the latest emission control standards. Bluetooth communication technology and TEXA's Autopower battery technology mean that these tools can be used without any awkward cables. All TEXA exhaust gas analysis tools come with a practical trolley for easy mobility around the workshop without having to lift and carry them.



GASBOX AUTOPOWER Exhaust gas analyser

The GASBOX Autopower is an exhaust gas analyser for the measurement of CO, CO₂, O₂, HC (and optionally NO) in petrol and gas fuelled vehicles. It is homologated by the Italian Ministry of Transport for use in vehicle test centres on light and heavy vehicles.

CS9000

CS9000 is TEXA's special exhaust gas analysis solution for bikes, scooters and quads, designed for use in conjunction with GASBOX Autopower. Four separate probes let you analyse emissions even from multiple exhaust systems. The CS9000 handles all aspects of exhaust gas analysis and fuel injection calibration in a professional manner that ensures maximum performance even in racing applications. The CS9000 is equipped with a fume extraction port for connection to workshop extraction systems.



The GASBOX and OPABOX both come with a practical trolley for easy movement around the workshop. Standard Bluetooth connectivity and the optional Power Pack (external battery pack) make it possible to use both units in a totally wireless way.

MULTI PEGASO 3 and GAS MOBILE

The MULTI PEGASO 3 is an exhaust gas analysis and control station **for conventional vehicle repair shops**. The station comprises a dedicated controller with the latest generation processor, and comes with Bluetooth and Wi-Fi communication modules.

The GAS Mobile 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.



RC3, RC2 and RCM

The RC3 is a **universal rev counter** for use with light and heavy vehicles. It incorporates two data acquisition systems: Battery ripple and OBD cable. As an option, it can also be used with an inductive clamp or piezoelectric sensor. The RC3 supports EOBD protocols: ISO 9141, KW2000, PWM, VPW, CAN BUS and the recent WWH-OBD.

The RC2 is a **rev counter for cars**. It comes with a Battery Ripple sensor but can also be used with an inductive clamp or piezoelectric sensor (both available as optionals).

The RCM is an exclusive **motor vehicle rev counter** from TEXA that uses an innovative directional antenna to measure engine speed with great accuracy. The RCM is ideal for use with fully faired motorcycles on which it is not possible to use an inductive clamp.



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 practical elements. Practice plays a fundamental part, as it combines testing and simulations with use of the technicians own TEXA diagnostic tools, thus stimulating a more active and dynamic participation and effective learning.





G1B: Analysing a bike's electrical and electronic measurements

Learning to understand and read the voltage, current and resistance measurements taken in bikes through the specific measuring tools. How to use the measuring tools: Voltmeter, Ammeter, Ohmmeter. How an oscilloscope works and how to use it to analyse electrical signals; how the main electric and electronic components work in a bike and how to test them. Electrical measurements in the workshop with diagnostic and measuring tools.



G2B: Euro 3 and Euro 4 electronic injection systems

Learning how to carry out the diagnosis in the Euro 3 and Euro 4 electronic injection systems based on the available parameters through the diagnostic tool. Learning the main strategies to determine the injection time and the related map types, and for the self-adaptation of the map. Diagnosing and checking the carburation with the exhaust gas analyser. Practical tests with multimeter and oscilloscope.



G3B: Diagnosing and checking the electric and electronic components in the bike

Carrying out electrical checks to identify any faults correctly. Learning how the main components (sensors and actuators) work. Learning how to check batteries, wiring, power supplies to electronic components, the various electric components: potentiometers, relays, NTC sensors, starter motor, DC motors, ignition coils. Checking various electronic components: pressure sensors, Hall sensors, oxygen sensors, knock sensor, coils with built-in power module.

TEXA

TEXA was founded in 1992 in Italy and is today among the world leaders in the design and production of multi-brand diagnostic and tele-diagnostic tools, exhaust gas analysers and air conditioning service stations. TEXA is worldwide with an extensive distribution network; through its subsidiaries, it sells in Brazil, France, Germany, Japan, Great Britain, Poland, Russia, Spain and the United States. Currently there are approximately 650 TEXA employees in the world, among which 150 engineers and specialists dedicated to Research and Development. Over the years, TEXA has received many awards and international recognitions, among which the Automechanika Frankfurt Innovation Award (2010 and 2014), the National Innovation Award as the most innovative

company in Italy, received by the then President of the Republic Giorgio Napolitano (2011), the Irish Automotive Innovation Award (2014), and the Golden Wrench award in Moscow (2015 and 2017). In 2015, the Mit Technology Review awarded TEXA among the ten most "disruptive" companies in Italy. In 2016, TEXA received the Frost & Sullivan award for "European Commercial Vehicle Diagnostics Customer Value Leadership". All TEXA tools are designed, engineered and built in Italy on modern, automated production lines that guarantee the utmost precision. TEXA pays particular attention to the quality of its products, and obtained the strict certification ISO TS 16949 specially written for original equipment suppliers to the automotive industry.



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

To check on IDC5 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 authorised 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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cod. 8801787
08/2018 - Inglese - V.14.0



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