

IDC5 OHW 24.0.0 SOFTWARE UPDATE

Dear Customer,

the new diagnostic features included in the **IDC5 OHW 24.0.0** update, which also contains the continuous updates **IDC5 OHW 23.0.1 / 23.0.2 / 23.1.0 / 23.1.1 / 23.1.2 / 23.1.3 / 23.2.0 / 23.2.1 / 23.2.2 / 23.2.3 / 23.3.0 / 23.3.1**, allow working on a large number of vehicles that belong to makes of the most popular manufacturers. The work TEXA's developers carried out on agricultural vehicles, forklifts, telehandlers, construction vehicles and special vehicles guarantees all mechanics the opportunity to use diagnostic tools that are always updated and state-of-the-art, to operate successfully on the vast majority of the vehicles on the road.

IDC5 OHW 24.0.0 includes new possible selections for the major makes on the market, among which: **ALLISON, AMMANN, ANTONIO CARRARO, ASV, ATLAS COPCO, AUSA, AVANT, BAOLI, BERGMANN, BOBCAT Engine, CASE CE, CASE iH, CATERPILLAR Engine, CHALLENGER, CLAAS, CLARK, CNH, CROWN, CUMMINS Engine, DETROIT Engine, DEUTZ Engine, DEUTZ-FAHR, DOOSAN, DOOSAN Engine, EBERSPÄCHER, EXTREME, FARESIN, FARMOTION Engine, FENDT, FPT Engine, GEHL, GENIE, GRADALL, GROVE, HAKO, HAMM, HATZ, HIDROMEK, HINO Engine, HITACHI, HITACHI , HURLIMANN, HYDREMA, HYUNDAI, HYUNDAI CE, ISUZU Engine, JACTO, JCB, JLG, JOHN DEERE, JOHN DEERE (Brazil), JOHN DEERE CE, KÄSSBOHRER GELÄNDEFahrzeug, KOBELCO, KOHLER Engine, KOMATSU, KRONE, KUBOTA Engine, LAMBORGHINI, LANDINI, LIEBHERR, LINDE, LINDNER, LINK-BELT, MAGNI, MAHINDRA, MAN ENGINES, MANITOU, MASSEY FERGUSON, McCORMICK, MECALAC, MERCEDES-BENZ Engine, MERLO, MITSUBISHI, NEW HOLLAND, NEW HOLLAND (LATAM), NEW HOLLAND CE, PERKINS Engine, PRINOTH, SAME, SANY, SCANIA Engine, SISU Engine, SKYJACK, SNORKEL, STEYR, STILL, SULLAIR, SUMITOMO, TADANO, TAKEUCHI, TEREX, TIDD, TOYOTA, VALPADANA, VALTRA (LATAM), VERMEER, VOLKSWAGEN Engine, VOLVO CE, VOLVO PENTA, WACKER NEUSON, XCMG, YANMAR Engine, ZETOR, ZF.**

The **OHW 24.0.0** update also offers new, very useful Wiring Diagrams and DASHBOARDS.

NEW SOFTWARE FEATURES

Guided Diagnosis.

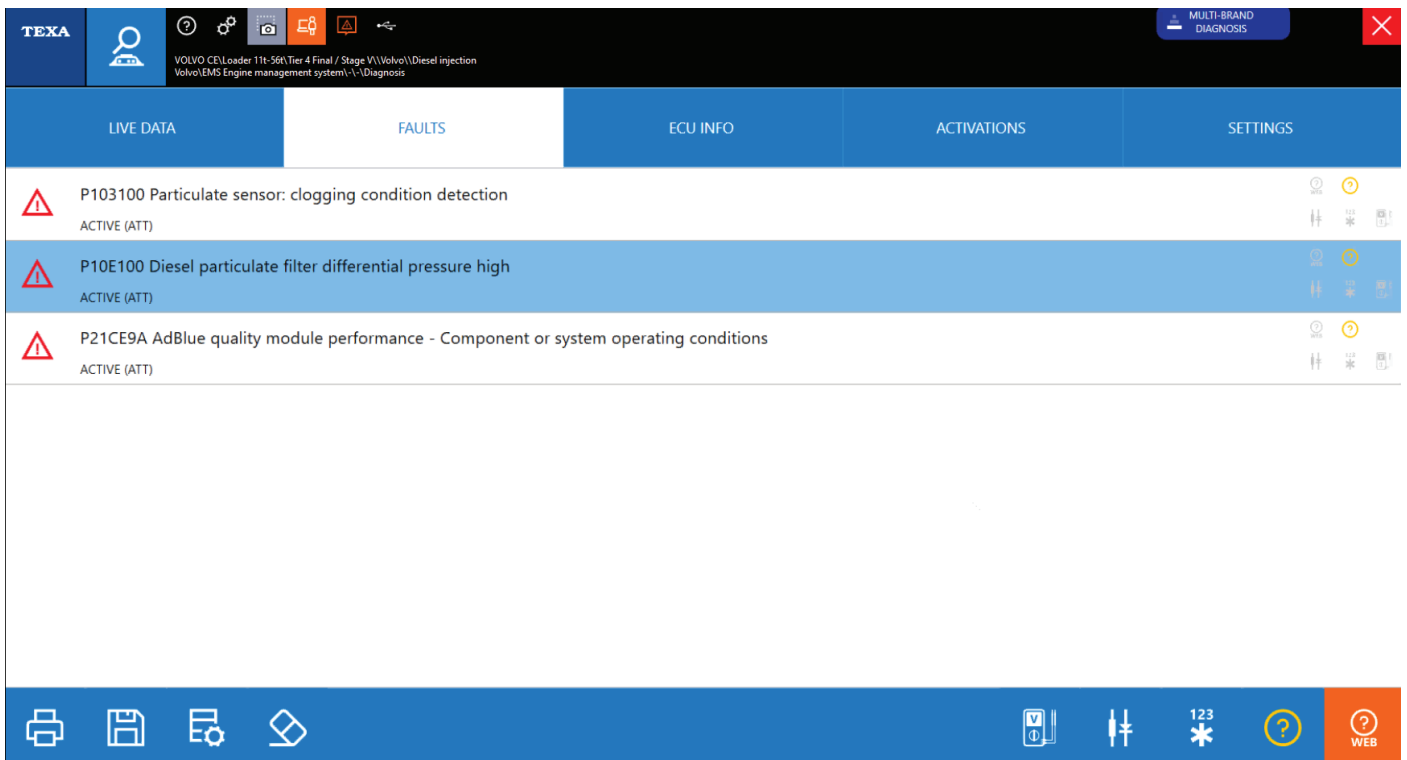
Introduced with the **IDC5 OHW 24.0.0** version and based on the principle of the previous "System Sanity Check" process, this new function allows users to perform a guided and in-depth troubleshooting check.

The guided diagnosis will show in a graphic, intuitive and interactive way, the actions to be taken to perform a specific repair or to check a component, guaranteeing its solution through suggestions and indications based on a logical process.

When available for a specific diagnostic system, the Guided Diagnosis function can be recalled



in the error page, through the specific icon associated with the error.



Error page screen.

The procedure will show the value of the parameters associated with the error, then it will be up to the mechanic to evaluate whether the value can be considered correct, and to confirm by clicking whether it is valid or not.

The screenshot shows the 'DPF guided diagnosis' interface. At the top, there's a header with 'TEXA' and 'MULTI-BRAND DIAGNOSIS'. Below that, a navigation bar contains 'DPF guided diagnosis', a printer icon, and a help icon. The main area is titled 'Live Data Evaluation' and displays a list of parameters:

DPF pressure difference	2.6	kPa	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Engine speed	640.0	rpm	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust gas temperature upstream of the DOC	216.0	°C	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust gas temperature upstream of the DPF	241.6	°C	<input type="checkbox"/>	<input type="checkbox"/>
Exhaust gas temperature downstream of the DPF	267.2	°C	<input type="checkbox"/>	<input type="checkbox"/>

At the bottom, a blue bar contains the text 'Press CANCEL to exit from the guided diagnosis procedure' and two buttons: 'CONFIRM' (green) and 'CANCEL' (red).

Parameter evaluation.

If the value of the parameters is considered to be within standard, the Guided Diagnosis procedure will show a possible series of additional checks or the possibility to clear the error.

This screenshot shows the 'DPF guided diagnosis' interface with a 'Help' window open on the left. The 'Help' window displays reference values for 'DPF pressure difference':

- Engine OFF: -1.2...1.2 kPa (-1.7...1.7 psi)
- Engine at idle: 0...35 kPa (0...5 psi), the value increases as the engine speed increases
- With clogged filter: > 35 kPa (> 5 psi)
- Operating range: -2...140 kPa (-0.29...20.3 psi)

The main interface shows 'Live data reading' with the following options:

DPF pressure difference	2.6	kPa	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Live data evaluation			<input type="checkbox"/>	<input type="checkbox"/>
Error clearing			<input type="checkbox"/>	<input type="checkbox"/>

At the bottom, a blue bar contains the text 'Select if the live data value is correct' and 'Press CANCEL to exit from the guided diagnosis procedure', along with 'CONFIRM' and 'CANCEL' buttons.

Possibility to clear the errors.

TEXA MULTI-BRAND DIAGNOSIS

VOLVO CE Loader 11t-56t Tier 4 Final / Stage V \Volvo\Diesel injection
Volvo EMS Engine management system \Diagnosis

DPF guided diagnosis

Technical data sheet check

DPF pressure difference 2.6 kPa

Self-diagnostic device sheets

Incorrect fuel quality
Fault in the differential pressure sensor

Recommended repair

Perform the following checks:

- Check and correct the error codes related to the engine or differential pressure sensor
- Check the efficiency of the DPF and its proper assembly
- Verify the efficiency of the differential pressure sensor and its electrical and pneumatic connections
- Make sure there are no obstructions to the passage of the exhaust gases also in the section after the DPF, verify the absence of crystallised urea in the SCR
- Remove the flexible pipe and activate the accelerator a few times to eliminate any possible loose deposits of soot
- Check if there is visible smoke when activating the accelerator in neutral
- If there is an abnormal amount of smoke coming from the engine
- Check for the presence of oil in the flexible pipe or in the silencer's intake
- If there is oil, visually check the turbocharger
- Check for possible fuel leaks from the injectors
- Check the accelerator, if applicable
- Check for possible leaks in the exhaust system

Notes

Evaluation with technical bulletin.

TEXA MULTI-BRAND DIAGNOSIS

VOLVO CE Loader 11t-56t Tier 4 Final / Stage V \Volvo\Diesel injection
Volvo EMS Engine management system \Diagnosis

DPF guided diagnosis

Wiring diagram check

DPF pressure difference 2.6 kPa

Device card

27000002 Component sheet
Check list for Differential pressure sensor

Information
This technical sheet supplies general information regarding the electrical/electronic component selected.
This type of information sheet is only available for the components for which a detailed technical sheet is not provided for.

Description
A differential pressure sensor is used to measure the pressure drop between two points.
In fact, it has two inputs that correspond to the two measurement points.
It is a combined sensor, made up of two pressure sensors built into a single body.

Evaluation with wiring diagram.

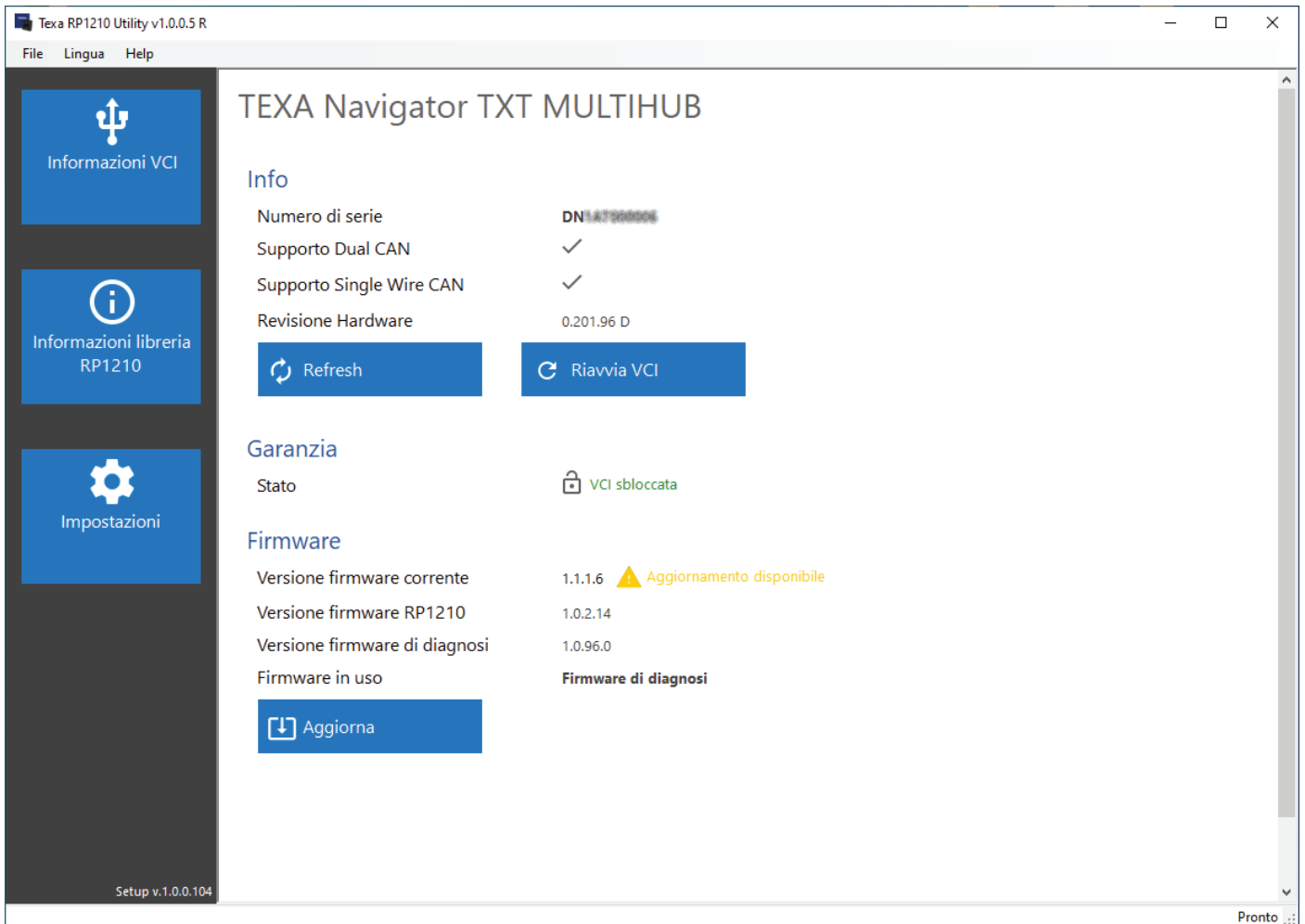
RP1210 function.

Starting from the **IDC5 OHW 24.0.0** version, the new **PASS-THRU** functions have been implemented.

Using the TEXA RP1210 application, the RP1210 protocol has been implemented, which can only be used with the TEXA Navigator TXT MULTIHUB VCI.



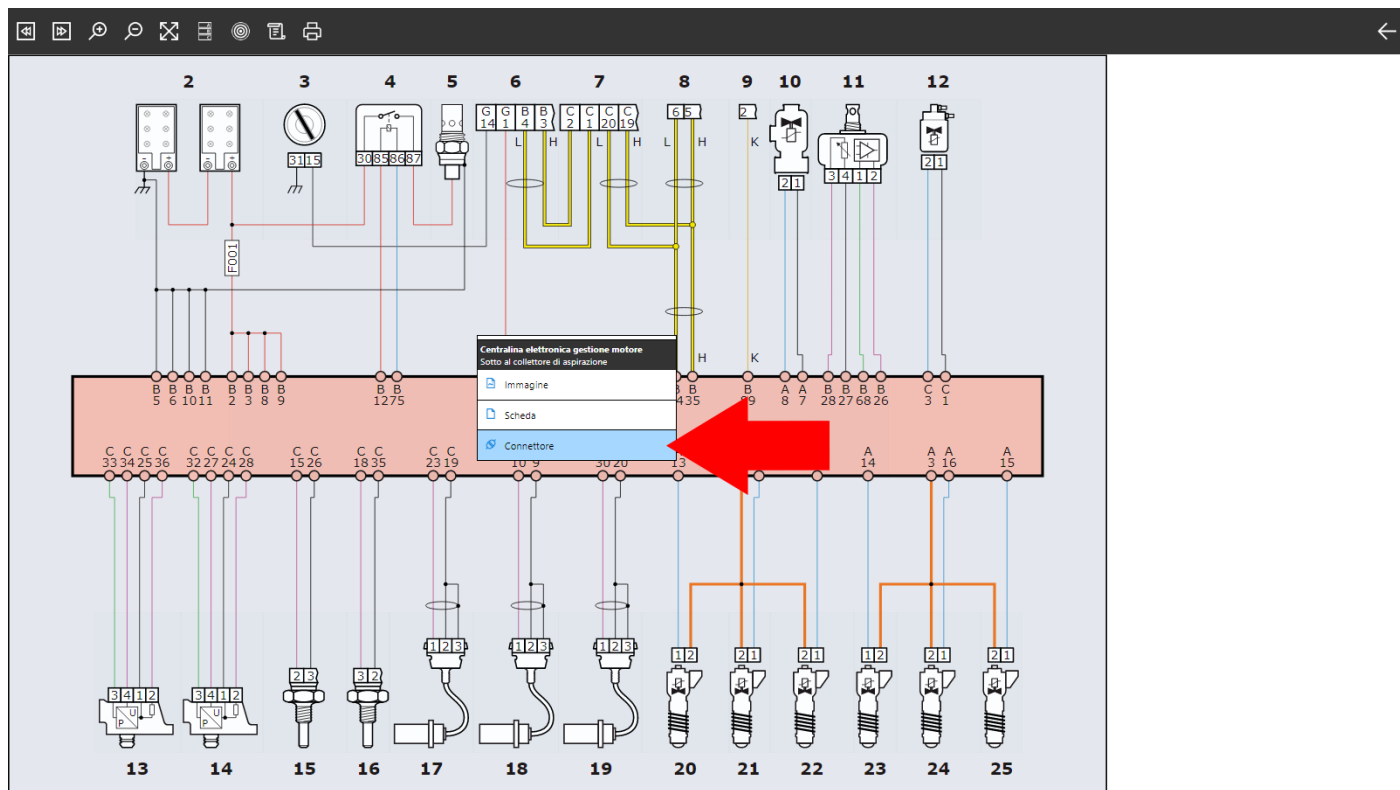
RP1210 application.



TEXA RP1210 menu.

Zoomed image of connector in wiring diagram.

Starting from the **IDC5 OHW 24.0.0** version, the new image zoom function has been implemented for connectors in the wiring diagram.



Wiring diagram connector image.

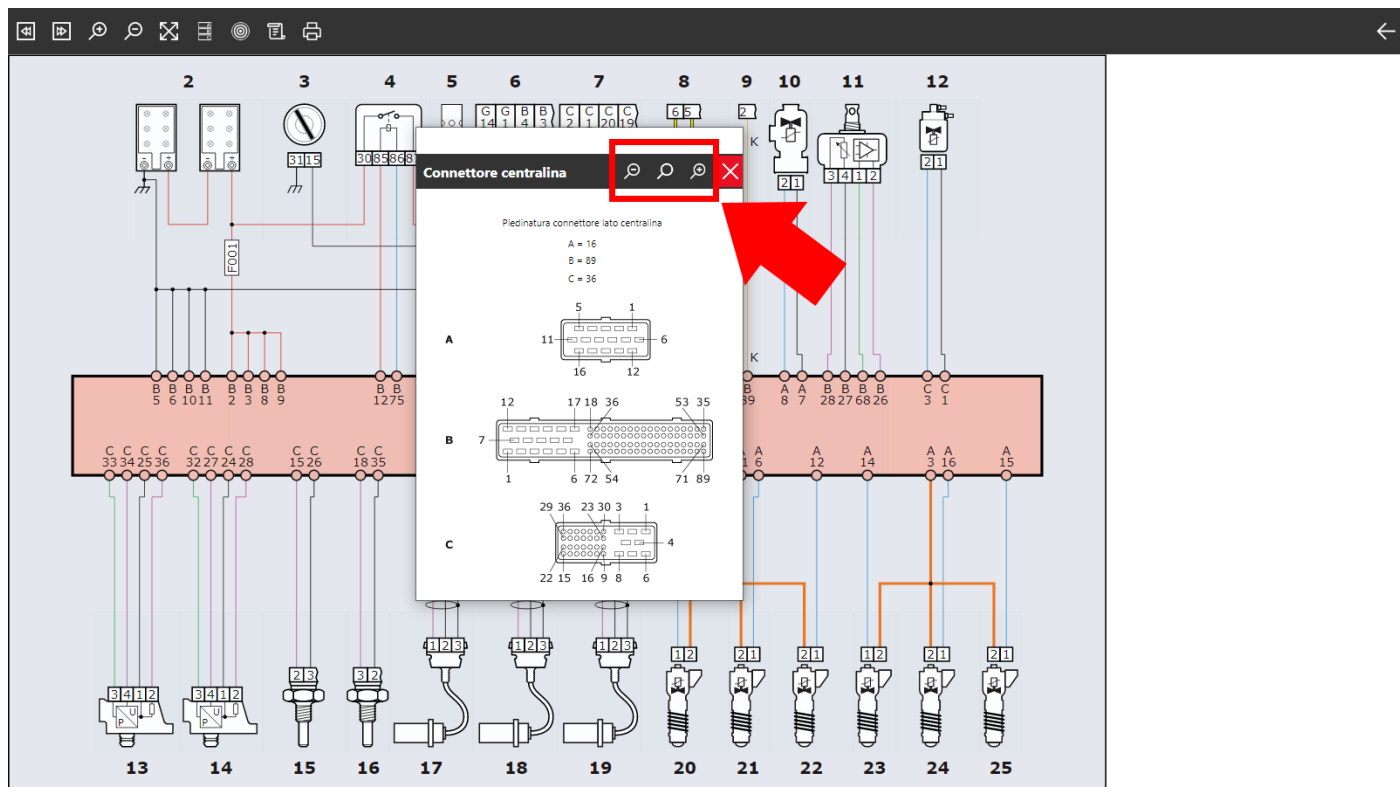


Image zoom.

Dashboard button flashing in the parameter page.

Starting from the **IDC5 OHW 24.0.0** version, a new visual function has been implemented for the Dashboard button in the Parameter page.

The screenshot shows the TEHA diagnostic software interface. The top navigation bar includes the TEHA logo, a user profile icon, and a '5' indicator. The main menu has five tabs: 'PARAMETRI 1/133' (selected), 'ERRORI', 'INFO ECU', 'ATTIVAZIONI', and 'REGOLAZIONI'. The parameter list includes:

Parameter	Value
Pressione dell'olio motore	448.0 kPa
Livello olio motore	N.A. %
Tempo totale motore acceso	4682.3 h
Modalità veicolo	Motore spento
Tensione batteria	25.6 V
Percorrenza totale	5242.9 km
Distanza percorsa totale	891289.6 km
Totale carburante utilizzato durante la guida	167772.2 l
Ore di guida totali	27984.4 h
Totale carburante utilizzato	167772.16 l
Temperatura olio motore	25.0 °C

The bottom navigation bar contains several icons: a printer, a gear, a circular arrow with 'MIN MAX', a star, a red-bordered icon with three circles (the dashboard button), a line graph, a refresh icon, and a help icon. A red arrow points to the red-bordered icon.

Dashboard button flashing.

DIAGNOSIS

AGRICULTURAL VEHICLES

41 makes updated.

(ALLISON, ANTONIO CARRARO, BOBCAT Engine, CASE iH, CHALLENGER, CLAAS, CUMMINS Engine, DEUTZ Engine, DEUTZ-FAHR, EBERSPÄCHER, FARESIN, FARMOTION Engine, FENDT, FPT Engine, HAKO, HURLIMANN, JACTO, JCB, JOHN DEERE, JOHN DEERE (Brazil), KOHLER Engine, KRONE, KUBOTA Engine, LAMBORGHINI, LANDINI, LINDNER, MAHINDRA, MASSEY FERGUSON, McCORMICK, MERCEDES-BENZ Engine, NEW HOLLAND, NEW HOLLAND (LATAM), PERKINS Engine, SAME, SISU Engine, STEYR, VALPADANA, VALTRA (LATAM), YANMAR Engine, ZETOR, ZF).

CONSTRUCTION VEHICLES & SPECIAL VEHICLES

59 makes updated.

(ALLISON, AMMANN, ASV, ATLAS COPCO, AUSA, AVANT, BERGMANN, BOBCAT Engine, CASE CE, CATERPILLAR Engine, CUMMINS Engine, DETROIT Engine, DEUTZ Engine, DOOSAN, DOOSAN Engine, FPT Engine, GEHL, GRADALL, GROVE, HAMM, HATZ, HIDROMEK, HINO Engine, HITACHI, HYDREMA, HYUNDAI CE, ISUZU Engine, JCB, JOHN DEERE CE, KÄSSBOHRER GELÄNDEFahrzeuge, KOBELCO, KOHLER Engine, KOMATSU, KUBOTA Engine, LIEBHERR, LINK-BELT, MAN Engine, MECALAC, MERCEDES-BENZ Engine, MERLO, NEW HOLLAND CE, PERKINS Engine, PRINOTH, SANY, SCANIA Engine, SULLAIR, SUMITOMO, TADANO, TAKEUCHI, TEREX, TIDD, VERMEER, VOLKSWAGEN Engine, VOLVO CE, VOLVO PENTA, WACKER NEUSON, XCMG, YANMAR Engine, ZF)

FORKLIFTS & TELEHANDLERS

31 makes updated.

(AUSA, BAOLI, CATERPILLAR Engine, CLAAS, CLARK, CROWN, CUMMINS Engine, DEUTZ Engine, DOOSAN, XTREME, FARESIN, FPT Engine, GENIE, HYUNDAI, JCB, JLG, KOHLER Engine, KUBOTA Engine, LINDE, MAGNI, MANITOU, MERLO, MITSUBISHI, PERKINS Engine, SKYJACK, SNORKEL, STILL, TOYOTA, WACKER NEUSON, YANMAR Engine, ZF)

WIRING DIAGRAMS

467 new wiring diagrams.

DASHBOARD

1656 new dashboards (parameters, settings and activations).

44 new TGS3 dashboards.

TECHNICAL SHEETS

742 new technical bulletins.

WARNINGS

DIAGNOSTIC LIMITATIONS WARNING

Although TEXA strives to keep its diagnostic tools up to date, it ever more often finds itself having to deal with very complex vehicle electronics that requires tools with advanced technological features. For this reason, we inform you that as of 1 March 2023, the software linked to the TEXA NAVIGATOR TXT tools with S/Ns that start with "DNTxxxxxxx" can no longer be updated.

For further information contact your TEXA retailer.

Good luck with your work!

TEXA S.p.A

Please note that this document is confidential. Total or partial copying without authorisation by TEXA S.p.A. is forbidden. Data, descriptions and illustrations may vary with respect to those shown here. TEXA S.p.A. reserves the right to make changes of any kind to its products, without prior notice.