IDC5 SOFTWARE UPDATE

OHW 23.0.0

TEXA

IDC5 OHW 23.0.0

Dear Customer,

the new diagnostic features included in the **IDC5 OHW 23.0.0** update, which also contains the continuous updates **22.0.1 / 22.0.2 / 22.0.4 / 22.1.0 / 22.1.1 / 22.1.3 / 22.2.0 / 22.2.1 / 22.2.2 / 22.2.3 / 22.2.4 / 22.2.5 / 22.2.6 / 22.2.7**, 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.

Moreover, the ENGLISH - AMERICAN language has been added.

The OHW 23.0.0 update also offers new, very useful Wiring Diagrams and DASHBOARDS.

Per conoscere più a fondo la straordinaria copertura messa a disposizione da TEXA, visita il sito:

www.texa.com/coverage

IMPORTANT NOTICE FOR CUSTOMERS WHO OWN A PC with Windows 7

Dear customers, Windows 7 is by now an obsolete operating system, no longer supported by Microsoft. To make the most of all the functions in TEXA's IDC5 diagnostic software, we recommend you update your Personal Computer to the latest version of the operating system Windows 10 and Windows 11.

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 on some vehicles the diagnosis or certain specific functions may not be compatible with old generation TEXA tools (VCIs) that have a serial number with "DNTxxxxxxx".

For further information contact your TEXA retailer.



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Dashboard

Coverage

IDC5 TRUCK 23.0.0 contains new possible selections for the major makes worldwide, among which:

ALLISON. AEBI. ANTONIO CARRARO. ARBOS. ASTEC. ATLAS. ATLAS COPCO, BOBCAT, BOMAG, CASE CE, CASE CE (LATAM), CASE iH, CASE iH (LATAM), CATERPILLAR, CHALLENGER, CLAAS, CUMMINS, CVS FERRARI, DEUTZ - FAHR, DEUTZ, DEUTZ-FAHR, DIECI, DITCH WITCH, DOOSAN, DOOSAN, DOTTO TRAIN, DYNAPAC, EATON, ENERGREEN, ERO, EUROCOMACH, EUROMACH, FARESIN, FENDT, FPT, FUCHS, GEHL, GENIE, GREGOIRE, GRILLO, GROVE, HAMM, HANSA, HATZ, HAULOTTE, HIDROMEK. HITACHI, HOLDER, HURLIMANN, HYSTER. HYUNDAI CE, ISUZU, JCB, JLG, JOHN DEERE, JOHN DEERE (Brazil), JOHN DEERE CE, JUNGHENRICH, KAMAZ, KÄRCHER, KÄSSBOHRER GELÄNDEFAHRZEUG, KATO IMER, KATO WORKS, KAWASAKI CE, KIOTI, KOBELCO, KOHLER, KOMATSU FOREST, KRAMER, KRONE, KUBOTA, KUBOTA, LAMBORGHINI, LANDINI, LAVERDA, LEEBOY, LIEBHERR, LINDE, LINK-BELT, LS MTRON, MAFI, MAGNI, MANITOU, MASSEY FERGUSON, McCORMICK, MENZI MUCK, MERCEDES-BENZ, MECALAC, MERLO, MITSUBISHI, MTU, MUSTANG by MANITOU, MWM Engine, NEW HOLLAND, NEW HOLLAND CE, NEW HOLLAND CE (LATAM), PAUS, PB, PERKINS, PETTIBONE, PONSSE, PRINOTH, SAME, SANY, SCANIA, SCHÄEFF, SENNEBOGEN, SHIBAURA, SISU, SNORKEL, SOLMEC, SPIERINGS MOBILE CRANES, SUNWARD, TADANO, TAKEUCHI, TAMROCK, TAYLOR, TEREX, THWAITES, TORO, VALTRA, VM, VÕGELE, VOLVO CE, VOLVO PENTA, WACKER NEUSON, WEIDEMANN, WIRTGEN, XCMG, XTREME, YANMAR, ZF.



Sanity Check

This new function introduced with the OHW 23 version allows users to perform a guided and in-depth check to solve a problem.

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.

те	XA	Ц.	$\leftarrow \rightarrow \bigcirc \sigma \sim =$ IDCS v.	23.0.0 🗡
			😫 Menu Diagnosis Agricultural Vehicles KUBOTA M7000 Series)Tier 3 / Tier 4 / Stage V /II)	\downarrow
	Manual id	dentification		
Q	Self-diagr	nosis	Vehicle Maintenance	
łŧ	Wiring Dia	agrams	Qa System sanity check	
Б	Technical	data sheets	DPF Sanity Check	-
02	Technical Checks	data and	SCR Sanity Check	-
	Troublesh	ooting		-
	iSupport			
	Customer managem			
බ	Special Co	ode		
CO TRUCK	Workshop			
	21/06/2022	16:29	le copyright and databas	right 2016-202

Start from quick menu.

TEXA O C <thc< th=""> <thc< th=""> <thc< th=""> <thc< th=""></thc<></thc<></thc<></thc<>	Self-diagnosis 🗙
DPF Sanity Check	日 ②
Error reading	
P0543- DPF upstream temperature	
P0546- DOC upstream temperature	
Select the error to solve 6 Press CANCEL to exit from the Sanity Check procedure	CONFIRM
	CANCEL

Error reading.



	Live data reading	
	Exhaust gas temperature 1 14 °C ?	
	Exhaust gas temperature 1 output voltage 5 V ? 🗸	
Help		← ⊜ A- ▲ A* 🗙
10/01/2018 Exhaust ga	as temperature sensor chaŭ procedine. Enhant gas temperature sensor	← ⊕ A- ▲ A+ <mark>×</mark>
10/01/2018 Exhaust gas Component of Recommended cher	check procedure: Enhaust gas temperature sensor CKS	← ⊕ A- A A+ 🗙
10/01/2018 Exhaust gas Component of Recommended cher	which procedure. Exhaust gas temperature sensor tcks indications recommended below are standard checks and must be carried out by expert personnel with the appropriate electrical/electronic knowledge	← ⊕ A- ▲ A• ×
10/01/2018 Exhaust gas Component Recommended cher INFORMATION: the I	which procedure. Exhaust gas temperature sensor tcks indications recommended below are standard checks and must be carried out by expert personnel with the appropriate electrical/electronic knowledge	← ⊕ A · A A × X

Error parameter reading with help sheet and component sheet.

TEX		-4: 6 5 1/1ie 4 / Stage V\\\Diesel injection ount-\-\Tie 3 - Stage V			Self-diagnosis 🗙
	LIVE DATA	FAULTS	ECU INFO	ACTIVATIONS	SETTINGS 4/6
	DPF (Diesel Particulate Filter)	regeneration interval time reset			0
	DPF (Diesel Particulate Filter)	soot load reset			
	DPF manual regeneration				
ð wts	DPF Sanity Check				0
() WE8	Injector coding				0
	Supply pump learning				
₽	Filter				start 🕐

Start from diagnostic system.

TEXA	⊘ & Contraction and the state of the state	Self-c	liagnosis 🗙
	DPF Sanity Check	l	0
	← Technical data sheet check		
	Exhaust gas temperature 1 14 C	8 A- A A' <mark>X</mark>	
	If the temperature measured by the sensor upstream of the DPF differs too much from the one calculated downstream of the DPF, the fault is detected. Consider the changes in the ambient temperature.		
Once the o	Cethnical data sheet 6 Check is complete, select if the issue has been found 6 ICEL to exit from the Sanity Check procedure 6	CONFI	RM
		CANC	

Error parameter reading with technical sheet.

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TEXA

OHW 23.0.0

TEXA O O Image: O		Self-diagnosis 🗙
DPF Sanity Check		日 ⑦
Wiring diagram check Exhaust gas temperature 1 14 1		
Carry out 'ECU check procedure'	>>>)	
Check the wiring diagram Once the check is complete, select if the issue has been found	ð	CONFIRM
Press CANCEL to exit from the Sanity Check procedure		CANCEL

Parameter reading with wiring diagram and detected fault.

Generic vehicle search

Starting from the OHW 23 version, a new function has been implemented in the "Manual identification" menu: it is now possible to find a vehicle using the search bar.

\times		දු 문을	теха
\downarrow	2 ☆ Menu Diagnosis	80	
		l identification	🖗 Manu
	log Category:	eshooting	Troub
	Agricultural Vehicles	rt	E <mark>ộ</mark> iSupp
		l Code 🔕	🖯 Specia
			Sec. Works
	age Trains	ostic coverage	▶ Diagn ● list
	inuusinai engines		
	Industrial engines		





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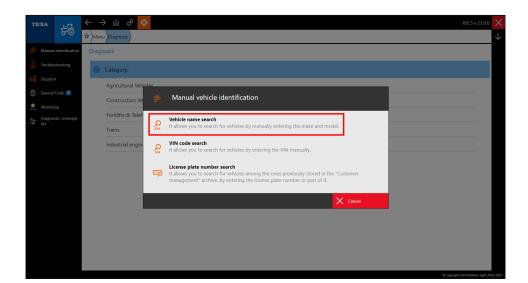
FORKLIFTS & TELEHANDLERS



Consulting a wiring diagram

Dashboard

Coverage



Vehicle name search.

теха		ŵ ° ∢	0				
4 18	🕈 🖉 Menu 🖉	Diagnosis					
Manual identification	Diagnosi	is					
Troubleshooting	@ (a	ategory:	🌼 🛛 Manual vehicle	identification			
- iSupport	_						
Special Code 👩	Ag	gricultural Veh	Vehicle name sear	ch			
Workshop	Co	onstruction Ve	VOLVO CE			SEARCH	
Diagnostic coverage	Fo	orklifts & Teleh	Vehicles found: 26				
₱ list	Tra	ains		vehicle or press Cancel to reject.			
	In	dustrial engin	Construction Vehicles & Special Veh	icles VOLVO CE (26)	_	_	
_			Asphalting machine	Tier 3 / Tier 4 Interim		Volvo	
			Asphalting machine	Tier 4 Final		Volvo	-
			Backhoes	VOLVO			
			Cold planer	Tier 3 / Tier 4 Interim		Volvo	
_			Cold planer	Tier 4 Final		Volvo	_
			Compact Loader 5,5t-6,1t	Tier 3 → Tier 4 Final		Volvo	-
			Compact Loador 6 2t 0 5t	← Back ✓ OK	>	Cancel	

Search bar.



System search bar

Starting from the OHW 23 version, a new function has been implemented in the "Self-diagnosis" menu: it is now possible to find a specific system using the search bar.

TE	XA	* 84	← → ŵ ♂	IDC5 v.23.0.0
	6	С о	🕸 Menu Diagnosis Agricultural Vehicles NEW HOLLAND 77 Series Tier 4 Final - M.Y. 2018 Full Powershift 175 / 190 / 210 With Fully-equipped A	rmrest
	Manual	Identification	n Self-diagnosis	
2	Self-dia	ignosis	Global system scan Actions on the vehicle	I
-0-	Technica	al data sheets		
	Troubles	shooting		
	iSuppor	rt	Activation Tests	
1	Custom manage	ier ement	TGS3s	
	Special	Code (5)		
	Workshe	юр	Systems Scan	
			Diagnosis by system	
			Q System search	
			✓ Diesel injection ○	
			& Additional instrumentation	
			* Air conditioner	
			Armrest control	
			Auvillanz distributors	

Search bar.

"Most used" adjustments and codings

Starting from the OHW 23 version, a new sub-family, called "Most used", has been implemented in the "Adjustments and coding" and "Device check" menus. This new sub-family groups all the activations most frequently used when diagnosing a vehicle.

		4	ን ක අ 📀 🖳	IDC5 v.23.0.0	×
TE	xxa Ç				
			nu JDiagnosis /Construction Vehicles & Special Vehicles /VOLVO CE /Compact Loader 6,2t-9,5t / Tier 3 / Tier 4 Interim / <mark>Nolvol</mark>		\downarrow
P	Manual identification		search A		
Q	Self-diagnosis	Adj	ustments and Coding		
×,	Resetting	*	Most used		
ļŧ	Wiring Diagrams		DPF manual regeneration		
Ę	Technical data sheets		Injector coding		
023	Technical data and Checks	ō			
() HE	Troubleshooting				
Ξĝ	iSupport	8	SCR/DPF after-treatment system		
Ē	Customer management				
බ	Special Code (5)				
Co TRUCK	Workshop				
				and database sight 201	

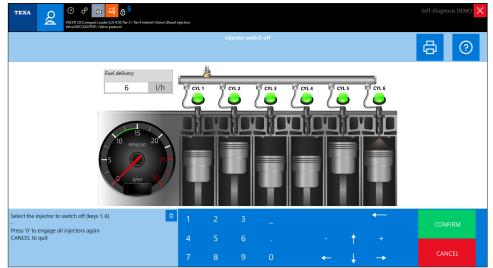
"Most used" sub-family.

TEXA



PRINT button for adjustment and activation DASHBOARDS

Starting from the OHW 23 version, a new button has been implemented, for the dashboards associated with the adjustments or activations, that allows printing a report in PDF format.



PRINT button.

	SELF-DIAG	SNOSIS REPO	ORT	TEX
Workshop data				
Company name				
Address		Province		
City Telephone number		Postcode E-mail		
Operator	Default user	C-mail		
Vehicle data				
License plate number		VIN	L45F11111111111V0LV0	
Make	VOLVO CE	Model	Compact Loader 6,2t-9,5t	
Engine type	Tier 3 / Tier 4 Interim	Vehicle ID*	Volvo	
Outline System	Diesel injection	Period		
Odometer	Diesei Injection			
outmeter		* identification code refe	arred to the VIN or to the engine code	
Instrumentation				
SW version	TEXA IDC5 OFF-HIGHWAY 23.0.0			
VCI serial number	000000			
Info ECU				
VIN	B 533722			
Hardware code: ECU serial number	20977019P04 08351944			
Manufacturing date	28/8/2008			
Speed limiter	40 km/h			
Software code	*21670298P			
Data kit 1	*21025267P			
Data kit 2	21670166P			
OEM Diagnosis code	VOLVO 8392			
	0392			
General test data Date	27-05-2022			
Date Time	27-05-2022			
Test	Injector switch off			
ACTIVATIONS/SET				
				_
For				
TEXA Sp.A. declines any resour	The second			e.
			Stamp and si	

Example of a report.

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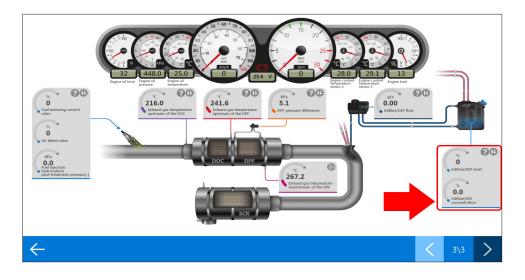


TEXA

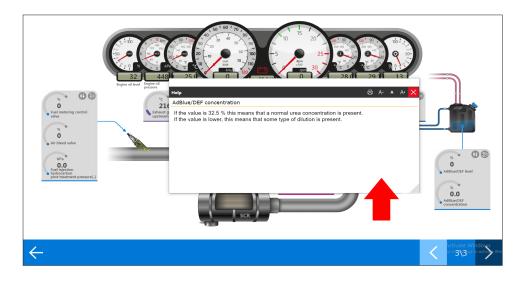
Help section for the DASHBOARD parameters

Starting from the OHW 23 version, a new function has been implemented to display the help section directly from the parameter dashboard.

By clicking on the parameter in the dashboard, you will be redirected to the corresponding help section.



Dashboard with help section.

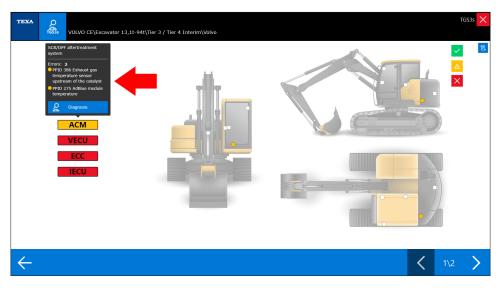


Parameter's help section.

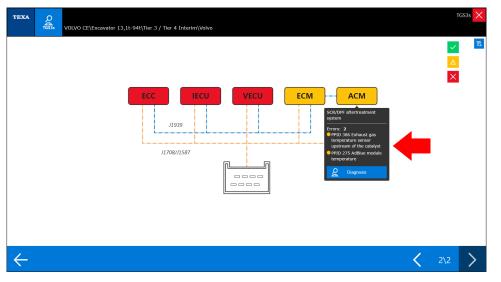


Error description display in the TGS3s DASHBOARDS

Starting from the OHW 23 version, a new function has been implemented to display the error description in the TGS3s dashboard.



Error description in the TGS3s DASHBOARD.



Error description in the TGS3s DASHBOARD.

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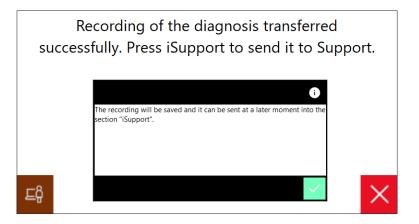


Consulting a wiring diagram

Dashboard

Fault notification ticket without Internet connection

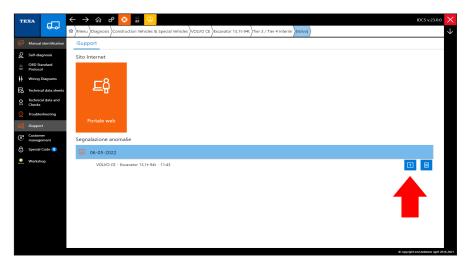
Starting from the OHW 23 version, if no Internet connection is available, the fault notification recording file will be saved in the "iSupport" section to be sent at a later time.



Recording successfully saved message.

TEXA	铙		:5 v.23.0.0 🗙
	<u></u> бо	🖈 Menu Diagnosis Construction Vehicles & Special Vehicles VOLVO CE Excavator 13,1t-94t /Tier 3 / Tier 4 Interim /Volvol	\checkmark
🌮 Mani	ual identification	Autodiagnosi	
g sett-	fiagnosis	Scansione globale impianti Interventi sul veicolo	1
Eo Tech	nical data sheets	9.6	
O Tech 123 Chec	nical data and ks		
Troul	oleshooting	Manutenzione Veicolo Regolazioni e codifiche	
Eộ iSup	oort	17653s	
Custo mana	omer igement		
Spece	al Code (5)	Scansione Sistemi	
e Worl	shop	Diagnosi per impianto	
		 <i>QRicerca implanto</i>	
		Diesel injection o	
		SCR/DPF aftertreatment system 0	
		* Air conditioner	
		2 Engine-vehicle adjustment	
		02 Instrument menel	

iSupport button.



Icon to send the recording.



Automatic Troubleshooting translation

Starting from the OHW 23 version, the automatic translation function has been implemented for the Troubleshooting in the on-line portal. The translation will be provided in the language set in IDC5 and it is also possible to view the original language.

Troubleshoot	ing
6	
od	Codice guasto: 171 (SPN: 523212 - FMI: 9 - Codice lampeggiante: 3-3-3) (DEUTZ AG)
°	powered by Google Leggin rightee
en	Errori diagnostici Codice di errore: 171 "Errore di limeout di CAN-Receive-Frame ComEngPrit"
ed	Protezione del motore. Siltotaria Sigli diguansitica accesa.
	Cause Errore di timeout (messaggio bus CAN mancante). Soluzioni Controllare il cablaggio dei bus CAN.
i Te iai	Controlla gli orari degli autobus.
du	Controllare la polantà. Vertificare la presenza di contocicuiti.
	Verificare l'interruzione dell'alimentazione. Controllere il lorotocolo di deis dei ricevitore.
op	Verificare la gamma funzionale CAN.
itic	
cii	178771
ric:	Barregegiante: 14-3 (DEUTZ AG) Codice guasto: 750 "Entros sensore pressione differenziale filtro ana; contocircuito verso positivo" Circuito aperto contocircuito verso positivo.
	Codice guasto: 38 (SPN: 523925 - FMI: 3 - Codice lampeggia… 🤟
	Códice guado: 38 (SPN: 529925 - FAit 3 - Codice Cocine quado: 39 (USC: Contractivative vero positivo del relà 3 definituatore" i componenti sui pin Adã e K57 mar possono server attivido: Stado do potenza della centralinia interna spento.
	Codice guasto: 40 (SPN: 523927 - FMI: 3 - Codice lampeagia *
	Cource gausto. Ho (or N. 525527 = 1 Mil. 5 = Cource lampeggia
	Coulde guidado, en jor 14. Judidad e 14. Juni 34. Contacto en la mini a contracto en la mini programa Ju- Coular guidad, 46. PKR 202077 - PH - A - Contacto en la mini programa su participado en la contractor en la mini programa su participado en la contractor de la contractore su participado en la contractore de la contractore de la contractore su participado en la contractore su participado en la contractore de la contractore su participado en la contrac
	Codice guastio: 40 (SPN: 503927 - FMI 4 - Codice Codice guastio: 40 'UBS, Contocincuito verso positivo del relè 5 dell'attuatore'i componenti sui pin A04 e

Example of Troubleshooting.

Troubleshooting			
uali	T 🗧 Fault cod	2: 171 (SPN: 523212 - FMI: 9 - Blink code: 3-3-3) (DEUTZ AG)	×
iblest			
port	Diagnostic errors	Fault code: 171 "Timeout error of CAN-Receive-Frame ComEngPit" Engine protection.	
64 C	Symptoms	Diagnostic lamp ON. Timeout error (missing CAN bus message).	
kaho		Check the CAN bus wiring. Check the bus scheduling.	
	Age	Check the polarity. Check for short circuits.	
nost Relo	Syst	Check for power interruption. Check the test protocol of the receiver.	
	Die	Check the CAN functional range.	
	Cra		
			DT20171
		Fault code: 417 "Sensor error SCR system environment temperature; DPF system air inlet temperature; signal range check high"	
		Fault Code: 249 (Cummins engines: QSK19 CM2350 K105)	
		Fault code: 249 PID: P171 SPN: 171 FMI: 3/3 "Ambient air temperature sensor 1 circuit - voltage above normal or short circuit to positive"	
		Fault Code: 249 (Cummins engines: ISL8.9 CM2150 L110)	
		-arise 111 FMI: Fault code: 249 PID: P171 SPN: 171 FMI: 3/3 "Ambient at temperature sensor 1 circuit - voltage above normal or short circuit to positive"	
		Fault Code: 249 (Cummins engines: ISF3.8 CM2220 F110)	
		-lars- 11 FMI: Fault code: 249 PID: P171 SPN: 171 FMI: 3/3 "Ambient air temperature sensor 1 circuit - voltage above normal or short circuit to positive"	
		Fault Code: 249 (Cummins engines: ISL8.9 CM2880 L112)	
		-lars- 11 FMI: Fault code: 249 PID: P171 SPN: 171 FMI: 3/3 "Ambient air temperature sensor 1 circuit - voltage above normal or short circuit to positive"	
		Fault Code: 249 (Cummins engines: ISF3.8 CM2350 F109)	

Troubleshooting in the original language.

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Consulting a wiring diagram

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AGRICULTURAL VEHICLES

ALLISON Transmission

The "Allison Generation 5" automatic transmission has been updated.

ANTONIO CARRARO

The "Transmission Control Module" automatic transmission system has been developed for the KUBOTA Tractor model.

BOSCH SCR

The "Bosch Denoxtronic 1-2" SCR/DPF after-treatment system has been updated.

CASE iH

New models have been developed:

- Farmall A Series;
- Farmall B Series;
- Farmall C Series;
- Farmall CL Series;
- Farmall M Series;
- Farmall N Series;
- Farmall U Series;
- Farmall U Series;
- Farmall V Series;
- Luxxum Series Stage V;
- Luxxum Series Tier 4 Final M.Y. 2018;
- Magnum Series Tier 4 Final M.Y. 2018;
- Maxxum Series Tier 4 Final M.Y. 2018;
- Optum Series Stage V M.Y. 2019;
- Optum Series Tier 4 Final M.Y. 2018;
- Puma Series Tier 4 Final M.Y. 2018;
- Vestrum Series Stage V.

CASE iH (LATAM)

New models have been developed:

- Farmall A Series;
- Farmall Power Shuttle Series.

CATERPILLAR Engine

• The "Caterpillar" Diesel injection system has been updated.

• The "Caterpillar DEF Controller" SCR/DPF after-treatment system has been updated.

CHALLENGER

- The new Self-propelled sprayer model has been developed.
- The "Transmission module" automatic transmission system has been updated.

CLAAS

- All the diagnostic systems in the following models have been updated:
- Arion 400 Series;
- Arion 500 Series;
- Arion 600 Series;
- Elios 200 Series;
- Nexos 200 F / VE / VL Series;
- Axion 800 Series;
- Axion 900 Series.

• The "DriveTronic 3" automatic transmission system has been updated.

- The "Transmission control module" automatic transmission system has been updated.
- The "CEBIS terminal" multifunction display system has been updated.
- The "REH Rear Electro-hydraulic Hoist" rear hydraulic linkage system has been updated.
- The "TCE15T Rear electro-hydraulic linkage" system has been updated.
- The "DBD2 Instrument panel" instrument cluster system has been updated.
- The "HYD Hydraulic distributors" system has been updated.

CVS FERRARI

The "Dana Transmission control unit" automatic transmission system has been developed for the F 478.5 model.

DEUTZ-FAHR

- New models have been developed:
- 3E Series;
- 4E Series;
- 5D Series;
- 5D Ecoline Series;



- 5D TTV Series;
- 5DF / 5DS / 5DV TTV Series;
- 5E Series;
- 5F Ecoline Series;
- 5G Series;
- 5G TB Series.

The "Bosch DCU Dosing Control Unit 17 CV 51" SCR/DPF after-treatment system has been updated.

DEUTZ Engine

• The "Bosch EMR4/EMR5 EDC 17/MD1 Tier 4 / Stage V" Diesel injection system has been updated.

- The "Bosch EMR3 EDC 16" Diesel injection system has been updated.
- The "Liebherr EMR L1" Diesel injection system has been developed.

DOOSAN Engine

• The "Bosch ECU Engine control unit" Diesel injection system has been updated.

• The "Bosch EDC 7" Diesel injection system has been updated.

FENDT

• The 200 Vario Series model has been updated.

• The "Bosch Rexroth Hydraulic control valves control module" remote control valve system has been updated.

FPT Engine

- The "Bosch MD1CE101" Diesel injection system has been developed.
- The "Bosch EDC 7 UC 31 CAN line diagnosis" Diesel injection system has been updated.
- The "Bosch EDC 16 C 39" Diesel injection system has been updated.
- The "Bosch EDC 17 CV 41" Diesel injection system has been updated.
- The "Bosch EDC 17 C 49" Diesel injection system has been updated.

HURLIMANN

- New models have been developed:
- XA Series;
- XA Tradition Series;
- XA V-Drive Series;
- XB Series;
- XB TB Series;
- XE Series;
- XF / XS / XV V-Drive Series;
- XF Spirit Series;
- XF Tradition Series.

The "Bosch DCU Dosing Control Unit 17 CV 51" SCR/DPF after-treatment system has been updated.

JOHN DEERE

- The new 8500 Series Shredder model has been developed.
- The new 5R (M.Y. 2017) Series model has been developed.

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• The "John Deere ECU Engine Control Unit Tier 2 / Tier 3 / Tier 4" Diesel injection system has been updated.

• The "EPC PowerQuad/AutoQuad Plus control unit" automatic transmission system has been updated.

• The "PTQ AutoQuad Plus and PowrQuad Plus transmission control unit" automatic transmission system has been updated.

• The "PTR Power Train Reverser transmission control unit" automatic transmission system has been updated.

• The "CAB Cabin control unit" passenger compartment control system has been updated.

JOHN DEERE (Brazil)

The new 5R (M.Y. 2017) Series model has been developed.

KÄRCHER

New models have been developed:

- B / C Series;
- MIC 26;
- MIC 35 / 42;
- S Series.

KOHLER Engine

• The "Kohler SCR Exhaust gas treatment" SCR/DPF aftertreatment system has been developed.

• The "Kohler" Diesel injection system has been updated.

KOMATSU FOREST

New models have been developed:

- Feller bunchers 900 Series;
- Feller bunchers XT Series;
- Forestry forwarder 800 Series.

KUBOTA Engine

• The "Kubota SCR Exhaust gas treatment" SCR/DPF aftertreatment system has been updated.

• The "Denso ECU Engine Control Unit" Diesel injection system has been updated.

LAMBORGHINI

New models have been developed:

- Crono Series;
- RF Series;
- Spark VRT Series;
- Spire Series;
- Spire F / Spire S / Spire V VRT Series;
- Spire F Target Series;
- Spire Target Series;
- Strike Series;
- Strike TB Series.

The "Bosch DCU Dosing Control Unit 17 CV 51" SCR/DPF after-treatment system has been updated.

LS MTRON

The new H Series Perkins model has been developed.

MASSEY FERGUSON

The "Hydraulic control valves control module" remote control valve system has been developed for the 66xx / 76xx / 77xx Series model.

MERCEDES-BENZ Engine

The diesel injection system "Bosch MR PF pump (PLD)" has been updated.

MTU Engine

• The "CPC Powertrain Controller" Diesel injection system has been updated.

• The "ACM Exhaust gas after-treatment" SCR/DPF aftertreatment system has been updated.

NEW HOLLAND

New models have been developed:

- Combine harvester CH Series;
- Combine harvester CX series;
- Combine harvester CL Series;
- Combine harvester CS & CSX Series;
- Self-propelled shredder FR Series.

PERKINS Engine

• The "Perkins DEF Controller" SCR/DPF after-treatment system has been updated.

• The "Perkins ECM Engine Control Module" Diesel injection system has been updated.

PONSSE

The new Forestry forwarder model has been developed.

SAME

New models have been developed:

- Argon Series;
- Dorado Series;
- Dorado Classic Series;
- Dorado CVT Series;
- Dorado Natural Series;
- Explorer Series;
- Explorer TB Series;
- Frutteto / Frutteto F / Frutteto S / Frutteto V CVT Series;
- Frutteto 3 Classic Series;



- Frutteto Classic Series;
- Frutteto Natural Series.

The "Bosch DCU Dosing Control Unit 17 CV 51" SCR/DPF after-treatment system has been updated.

TORO

The new 7500-D Series model has been developed.

VALTRA

- The "Transmission module TC" automatic transmission developed for the N Series AC24.5
- > AC27.51 model.
- The "Transmission module TC" automatic transmission developed for the T Series AC24.5
- > AC27.51 model.
- The "Auxiliary control valves" system has been updated.

YANMAR Engine

• The "Yanmar ECU Engine Control Unit" Diesel injection system has been updated.

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ALLISON Transmission

The "Allison Generation 5" automatic transmission has been updated.

ASTEC

New models have been developed:

- Carlson CP Series;
- Roadtec SP Series;
- Roadtec RX Series;
- Roadtec SX Series.

ATLAS COPCO

The new Air compressor model has been developed.

BOBCAT

• The new E Series Stage V Excavator model has been developed.

• The new S & T Series Stage V Skid steer model has been developed.

• The "Bosch ECU Engine control unit 17 CV 51" Diesel injection system has been updated.

• The "Bosch Denoxtronic 1-2" SCR/DPF after-treatment system has been updated.

CASE CE

• The "Denso ECM Engine Control Module" Diesel injection system has been developed for the SHIBAURA Skid steer SE & SV Series model.

• The new G Series Stage V Excavator model has been developed.

• The new G Series Tier 4 Final Excavator model has been developed.

CASE CE (LATAM)

• The new G Series Tier 2 Excavator model has been developed.

• The new C Series Motor grader model has been developed.

CATERPILLAR

• The new Roller-compactor model has been developed.

• The "Wireless transceiver" GPS system has been developed.

CUMMINS Engine

• The "Cummins J1939 Core 2 - Proprietary protocol" Diesel injection system has been updated.

DEUTZ Engine

• The "Bosch EMR4/EMR5 EDC 17/MD1 Tier 4 / Stage V" Diesel injection system has been updated.

• The "Bosch EMR3 EDC 16" Diesel injection system has been updated.

• The "Liebherr EMR L1" Diesel injection system has been developed.

DOOSAN Engine

• The "Bosch ECU Engine control unit" Diesel injection system has been updated.

• The "Bosch EDC 7" Diesel injection system has been updated.

DOTTO TRAIN

• The new Big Boy model has been developed.

• The new Muson River model has been developed.

EATON Transmission

• The "Eaton" automatic transmission system has been updated.

FPT Engine

• The "Bosch MD1CE101" Diesel injection system has been developed.

• The "Bosch EDC 7 UC 31 CAN line diagnosis" Diesel injection system has been updated.

• The "Bosch DCU15 Denoxtronic 2" SCR/DPF aftertreatment system has been updated.

• The "Bosch EDC 16 C 39" Diesel injection system has been updated.

• The "Bosch EDC 17 CV 41" Diesel injection system has been updated.

• The "Bosch EDC 17 C 49" Diesel injection system has been updated.

FUCHS

• The new Material handler model has been developed.

GROVE

• The "Knorr – Bremse ABS Anti-lock Braking System" has been developed for the GMK Serie Tier 4 model.

HANSA

• The new Excavator model has been developed.

HITACHI

• The new CUMMINS ZW Series Loader model has been developed.

• The new ZX Series 7 Excavator model has been developed.

ISUZU Engine

• The "Isuzu ECU Engine control unit Tier 4 / Stage V" Diesel

TEXA



injection system has been developed.

• The "Isuzu SCR Exhaust gas treatment" SCR/DPF after-treatment system has been updated.

• The "Isuzu ECU Engine control unit Tier 2 / Tier 3" Diesel injection system has been updated.

JCB

- The "Delphi DCM 7.24" Diesel injection system has been developed.
- The JCB Ecomax Hydradig Excavator model has been updated.
- The ISUZU AMS Excavator model has been updated.

• The "Bosch DCU Dosing Control Unit 17 CV 51" SCR/DPF after-treatment system has been updated.

• The "Delphi DCM 3.3+ Tier 4" Diesel injection system has been updated.

KÄSSBOHRER GELÄNDEFAHRZEUG

The new Polarnik model has been developed.

KATO IMER

The new Mini excavator model has been developed.

KATO WORKS

• The new HD Series Excavator model has been developed.

• The "Bosch/Denso Common Rail Tier 3 CAN line diagnosis" Diesel injection system has been developed for the Mobile crane SR Series model.

KOBELCO

• The new ISUZU Series 140-160 Tier 2 / Tier 3 Excavator model has been developed.

KOHLER Engine

- The "SCR Exhaust gas treatment" SCR/DPF after-treatment system has been developed.
- The "Kohler" Diesel injection system has been updated.

KUBOTA Engine

• The "Kubota SCR Exhaust gas treatment" SCR/DPF after-treatment system has been updated.

• The "Denso ECU Engine Control Unit" Diesel injection system has been updated.

LEEBOY

- New models have been developed:
- Asphalt paver;
- Motor grader;
- Sweeper.

LIEBHERR

The new DEUTZ Loader model has been developed.

MAFI

The new T Series model has been developed.

MECALAC

• The new PERKINS TA Series Site Dumper model has been developed.

MENZI MUCK

• The new VOLKSWAGEN Dumper model has been developed.

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• The new DEUTZ Spider excavator model has been developed.

MERCEDES-BENZ Engine

• The "Bosch MR PF pump (PLD) 4-cylinder" Diesel injection system has been updated.

MTU Engine

• The new "ADEC (Advanced Diesel Engine Control) ECU 7" Diesel injection system has been developed.

• The "Continental CPC Powertrain Controller" system has been updated.

• The SCR/DPF after-treatment system "Conti Temic ACM Exhaust gas after- treatment" has been updated.

NEW HOLLAND CE

New models have been developed:

- Loader C Series Tier 4 Final;
- Loader C Series Stage V;
- Motor graders F Series Tier 4 Final;
- Loader D Series Stage V.

NEW HOLLAND CE (LATAM)

The new D Series Tier 2 Loader model has been developed.

PAUS

- The new CUMMINS Loader model has been developed.
- The new UNI 50 Series model has been developed.

PERKINS Engine

• The "Perkins DEF Controller" SCR/DPF after-treatment system has been updated.

• The "Perkins ECM Engine Control Module" Diesel injection system has been updated.

SANY

• The new ISUZU Excavator model has been developed.

• The new MITSUBISHI FUSO Excavator model has been developed.

SULLAIR

• The new Air compressor model has been developed.

SCANIA Engine

The "Scania EMS Engine Management System Tier 3 / Tier 4" Diesel injection system has been updated.

SCHÄEFF

New models have been developed:

- DEUTZ Loader;
- YANMAR Loader;
- Loader KUBOTA;
- Excavator DEUTZ.

SHIBAURA Engine

• The "Denso ECM Engine Control Module N4LDI" Diesel injection system has been developed.

• The "Shibaura ECM Engine Control Module N843 / N844" Diesel injection system has been developed.

SOLMEC

• The new Material handler model has been developed.

TAKEUCHI

• The new TLV2 Series Skid steer model has been developed.

TAMROCK

• The new Drill model has been developed.

VÖGELE

• The new Asphalt paver model has been developed.

VOLVO CE

- New models have been developed:
- Asphalt paver Tier 4 Final;
- Compact Loader 5.5 t 6.1 t
- Skid steers.
- The "Volvo ACM Exhaust gas after-treatment" SCR/DPF after-treatment system has been updated.

• The "Volvo EDC UIS/PDE" Diesel injection system has been updated for the Mini Excavator Tier 4 model.

VOLVO PENTA Engine

The "Volvo ECU Engine Control Unit" Diesel injection system has been updated.

WEIDEMANN

The new KOHLER Loader model has been developed.

XCMG

The new SDEC Loader model has been developed.

YANMAR Engine

The "Yanmar ECU Engine Control Unit" Diesel injection system has been updated.





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BOBCAT

- The new Series T / TL / TR Stage V Telehandler model has been developed.
- The "ECU Engine Control Unit 17 CV 51" Diesel injection system has been updated.

CATERPILLAR

• The new Forklift model has been developed.

CATERPILLAR Engine

- The "Caterpillar" Diesel injection system has been updated.
- The "Caterpillar DEF Controller" SCR/DPF after-treatment system has been updated.

CUMMINS Engine

• The "Cummins J1939 Core 2 - Proprietary protocol" Diesel injection system has been updated.

DEUTZ – FAHR

· The new Telehandler model has been developed.

DEUTZ Engine

• The "Bosch EMR4/EMR5 EDC 17/MD1 Tier 4 / Stage V" Diesel injection system has been updated.

- The "Bosch EMR3 EDC 16" Diesel injection system has been updated.
- The "Liebherr EMR L1" Diesel injection system has been developed.

DOOSAN

• The new Stage V Forklift model has been developed.

DOOSAN Engine

- The "Bosch ECU Engine control unit" Diesel injection system has been updated.
- The "Bosch EDC 7" Diesel injection system has been updated.

FPT Engine

- The "Bosch MD1CE101" Diesel injection system has been developed.
- The "Bosch EDC 7 UC 31 CAN line diagnosis" Diesel injection system has been updated.
- The "Bosch DCU15 Denoxtronic 2" SCR/DPF after-treatment system has been updated.
- The "Bosch EDC 16 C 39" Diesel injection system has been updated.
- The "Bosch EDC 17 CV 41" Diesel injection system has been updated.
- The "Bosch EDC 17 C 49" Diesel injection system has been updated.

HATZ Engine

• The "Hatz ECU Engine Control Unit" Diesel injection system has been developed.

JCB

- The new Articulating boom lift model has been developed.
- The "Delphi DCM 7.24" Diesel injection system has been developed.
- The JCB Dieselmax Stage V 500 series Telehandler model has been updated.

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• The JCB Ecomax 500 series Telehandler model has been updated.

JLG

- The new KUBOTA Boom lift model has been developed.
- The new KUBOTA Scissor lift model has been developed.

KOHLER Engine

• The "SCR Exhaust gas treatment" SCR/DPF aftertreatment system has been developed.

• The "Kohler" Diesel injection system has been updated.

KUBOTA Engine

• The "Kubota SCR Exhaust gas treatment" SCR/DPF aftertreatment system has been updated.

• The "Denso ECU Engine Control Unit" Diesel injection system has been updated.

LINDE

• The new DOOSAN H Series model has been developed.

• The "DPF Burner control unit" SCR/DPF after-treatment system has been developed for the VOLKSWAGEN H Series model.

• The "Bosch EDC 17 CP 20" Diesel injection system has been developed for the VOLKSWAGEN H Series model.

The "Instrument panel" system has been updated.

MANITOU

• The "Sauer Danfoss Hydrostatic Transmission" automatic transmission system has been developed for the MERCEDES-BENZ Tier 4 Telehandler model.

MERCEDES-BENZ Engine

• The "Bosch MR PF pump (PLD) 4-cylinder" Diesel injection system has been updated.

MTU Engine

• The "Continental CPC Powertrain Controller" system has been updated.

• The SCR/DPF after-treatment system "Conti Temic ACM Exhaust gas after- treatment" has been updated.

PB

• The new Scissor lift model has been developed.

PERKINS Engine

• The "Perkins DEF Controller" SCR/DPF after-treatment system has been updated.

• The "Perkins ECM Engine Control Module" Diesel injection system has been updated.

SNORKEL

- New models have been developed:
- Boom lift CUMMINS;
- DEUTZ boom lift;
- KUBOTA boom lift;
- Boom lift YANMAR.

TAYLOR

• The new CUMMINS Forklift model has been developed.

• The new VOLVO PENTA Forklift model has been developed.

VOLVO PENTA Engine

• The "Volvo ECU Engine Control Unit" Diesel injection system has been updated

XTREME

• The "ZF Ergo Power EST 37" automatic transmission system has been developed for the XR Series Telehandler model.

YANMAR Engine

• The "Yanmar ECU Engine Control Unit" Diesel injection system has been updated.



WIRING DIAGRAMS

AEBI

New wiring diagrams have been developed for the models:

- MT Series;
- Vario.

ALLISON Transmission

New wiring diagrams have been developed for the automatic transmission system "Allison Generation 5".

ANTONIO CARRARO

New wiring diagrams have been developed for the models:

- KUBOTA tractor;
- YANMAR tractor.

ARBOS

New wiring diagrams have been developed for the model: • VM tractor.

ATLAS COPCO

New wiring diagrams have been developed for the model: • Roller-compactors.

ATLAS

New wiring diagrams have been developed for the model: • Excavator.

ASTEC

New wiring diagrams have been developed for the model:

- Roadtec RX Series;
- Carlson CP Series.

BOBCAT

New wiring diagrams have been developed for the model: • Excavator E Series;

• Telehandler T / TL / TR Series.

BOMAG

New wiring diagrams have been developed for the model:

- BF Series;
- BM Series;
- BW Series.

CASE CE

New wiring diagrams have been developed for the models:

• Excavator CX Series;

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Coverage

texa.com/coverage



- Excavator CXD Series;
- Backhoes SM Series;
- Dozer 1150K / 1650L;
- Dozer 550L / 650L / 750L / 850L;
- Dozer M Series;
- Loader E Series;
- Loader F Series.

CASE iH

New wiring diagrams have been developed for the models:

- Farmall A Series;
- Farmall B Series;
- Farmall C Series;
- Farmall CL Series;
- Farmall M Series;
- Farmall N Series;
- Farmall V Series;
- Farmall U Series;
- Combine harvester Axial Flow FPT / Tier 4 Interim;
- Steiger Tier 4 Interim;
- Steiger Tier 4 Final;
- Sugar cane harvester Tier 4;
- Telehandler Farmlift Series Tier 4;
- Titan Series Sprayer Tier 4 Interim.
- Maxxum Series Tier 4 Interim M.Y. 2011;
- Puma Series Tier 4 Interim M.Y. 2011.

CATERPILLAR

New wiring diagrams have been developed for the models:

- Asphalt paver;
- Cold planer;
- Bulldozer;
- Dumper;
- Graders;
- Loaders;
- Road reclaimer;
- Telehandler;
- Thresher Lexion;
- Roller-compactors.

CATERPILLAR Engine

New wiring diagrams have been developed for the "Caterpillar" Diesel injection system.

CHALLENGER

New wiring diagrams have been developed for the models:

- MT 700-800 B;
- MT 700-800 C;
- MT 900 C.

CLAAS

New wiring diagrams have been developed for the models:

- Axion 900 Series FPT Tier 4 Interim (A23);
- Combine harvester Lexion 500 Series;
- Combine harvester Lexion 600 Series;
- Combine harvester Lexion 700 Series;
- Combine harvester Tucano 400 Series;
- Torion Series;
- Xerion Series;
- Telehandler Scorpion Series.

CUMMINS Engine

• New wiring diagrams have been developed for the "Cummins" Diesel injection system.

DEUTZ – FAHR

New wiring diagrams have been developed for the models:

- 5 Series;
- 5D Series (Mother regulation M.Y. 2018);
- 5DF / 5DS / 5DV TTV Series (Mother regulation M.Y. 2018);
- 5G Series/FARMotion (Mother regulation M.Y. 2018);
- 6 Agrotron Series;
- 6G Agrotron Series;
- 6 Agrotron TTV Series;
- 7 Agrotron Series;
- 9 Agrotron Series;
- Telehandler.

DEUTZ Engine

• New wiring diagrams have been developed for the "Liebherr EMR L1" Diesel injection system.

DIECI

New wiring diagrams have been developed for the model: • Telehandler.

DITCH WITCH

New wiring diagrams have been developed for the model: • Horizontal drills.

DOOSAN

New wiring diagrams have been developed for the models:

- Excavator DX Series;
- Mini Excavator DX Series.

DYNAPAC

New wiring diagrams have been developed for the model:

• Roller-compactors.



ENERGREEN

New wiring diagrams have been developed for the model: • ILF Series.

ERO

New wiring diagrams have been developed for the model: • Grape harvester.

EUROCOMACH

New wiring diagrams have been developed for the models:

- Excavator;
- Mini Excavator;
- Skid steers.

EUROMACH

New wiring diagrams have been developed for the model: • Spider excavator.

FARESIN

New wiring diagrams have been developed for the model:

- Mixer Wagon Leader;
- Mixer Wagon Pioneer;
- Telehandler FH Series.

FPT Engine

• New wiring diagrams have been developed for the "Bosch EDC 7 UC 31" Diesel injection system.

• New wiring diagrams have been developed for the "Bosch Denoxtronic 2" SCR/ DPF aftertreatment system.

FENDT

New wiring diagrams have been developed for the models:

- Vario 300 Series Tier 4 Interim (st 3b);
- Vario 500 Series Tier 4 Interim (st 3b) / Tier 4 Final (S4);
- Vario 700 Series Tier 4 Interim (st 3b) / Tier 4 Final (S4);
- Vario 800 Series Tier 4 Interim (st 3b) / Tier 4 Final (S4);
- Vario 900 Series Tier 4 Interim (st 3b) / Tier 4 Final (S4).

FUCHS

New wiring diagrams have been developed for the model:

Material handlers

GEHL

New wiring diagrams have been developed for the models:

- Loader;
- Excavator Compact;
- Skid steers.

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GENIE

New wiring diagrams have been developed for the models:

- Boom lift S & SX Series:
- Telehandler.

GREGOIRE

New wiring diagrams have been developed for the model: • Grape and Olive harvesters.

GRILLO

New wiring diagrams have been developed for the model: • FD Series.

НАММ

New wiring diagrams have been developed for the models: • Compactor DV Series;

Compactor HD Series.

HAULOTTE

New wiring diagrams have been developed for the model: • Boom lift.

HIDROMEK

New wiring diagrams have been developed for the model: • Excavator.

НІТАСНІ

New wiring diagrams have been developed for the model:

- Excavator ZX Series 3;
- Excavator ZX Series 5;
- Excavator ZX Series 6;
- Excavator ZX Series 7;
- Loader ZW Series.

HOLDER

New wiring diagrams have been developed for the model: • X / C / S Series.

HURLIMANN

New wiring diagrams have been developed for the model:

- XA Series (Mother regulation M.Y. 2018);
- XF / XS / XV V-Drive Series (Mother regulation M.Y. 2018);
- XB Series/FARMotion (Mother regulation M.Y. 2018);
- XL Series;
- XM Series.

HYSTER

New wiring diagrams have been developed for the model:

• Forklifts.

HYUNDAI CE

New wiring diagrams have been developed for the model:

- Excavators;
- Mini Excavator.

ISUZU Engine

• New wiring diagrams have been developed for the "SCR Exhaust gas treatment" SCR/DPF after-treatment system.

• New wiring diagrams have been developed for the "Isuzu ECU Engine Control Unit Tier 2 / Tier 3" Diesel injection system.

JCB

New wiring diagrams have been developed for the models:

- Backhoes CX Series;
- Compactor VM Series;
- Dumper;
- Excavator;
- Excavator Compact;
- Forklifts JCB Ecomax;
- Loader 300 Series JCB Dieselmax;
- Loader 400 Series JCB Dieselmax;
- Loader 400 Series JCB Ecomax;
- Loader TM Series JCB Dieselmax;
- Loader TM Series JCB Ecomax;
- Site Dumper JCB Dieselmax;
- Site Dumper JCB Ecomax;
- Skid steers JCB Ecomax;
- Telehandler 500 Series JCB Dieselmax;
- Telehandler 500 Series JCB Ecomax;
- Road rollers JCB Ecomax.

JCB Engine

• New wiring diagrams have been developed for the "Delphi DCM 3.3+" Diesel injection system.

JLG

New wiring diagrams have been developed for the models: • Boom lift:

• Telehandler

JOHN DEERE CE

New wiring diagrams have been developed for the models:

- Loader L Series;
- Excavator D Series;
- Excavator G Series;
- Skid steers.



JOHN DEERE

New wiring diagrams have been developed for the models:

- 15xx Series;
- 2R Series;
- 3R Series;
- 4R Series.

JUNGHENRICH

New wiring diagrams have been developed for the model: • Forklifts.

KAMAZ

New wiring diagrams have been developed for the model: • T215.

KÄSSBOHRER GELÄNDEFAHRZEUG

New wiring diagrams have been developed for the model: • BeachTech 5500.

KATO WORKS

New wiring diagrams have been developed for the model: • Crane truck CR Series;

• Excavator HD Series.

KAWASAKI CE

New wiring diagrams have been developed for the model: • Loader.

ΚΙΟΤΙ

New wiring diagrams have been developed for the model: • PX Series.

KOBELCO

New wiring diagrams have been developed for the models:

- Excavator 10-85 Series;
- Excavator 140-160 Series;
- Excavator 200-850 Series.

KRAMER

New wiring diagrams have been developed for the models: • Loader;

Telehandler.

KRONE

New wiring diagrams have been developed for the model: • Shredder Big X Series LIEBHERR.

КИВОТА

New wiring diagrams have been developed for the model:

Software

Sanity Check

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"Most used" adjustments and codings

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CONSTRUCTION VEHICLES & SPECIAL VEHICLES

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WIRING DIAGRAMS

Consulting a wiring diagram

Dashboard



- Excavator;
- Loader;
- M100 Series;
- M4000 Series;
- M5000 Series;
- M6000 Series;
- M7000 Series;
- MGX Series;
- Mxx40 Series;
- Mxx60 Series;
- RTV Series;
- Skid steers RT Series;
- Skid steers SVL Series;
- Telehandler KTH Series.

LAMBORGHINI

New wiring diagrams have been developed for the models:

- Mach Series;
- Nitro Series;
- R6 Series;
- Spark VRT Series;
- Spark Series;
- Spire Series (Mother regulation M.Y. 2018);
- Spire F / Spire S / Spire V VRT Series (Mother regulation
- M.Y. 2018);
- Strike Series (Mother regulation M.Y. 2018).

LANDINI

New wiring diagrams have been developed for the model:

- 4 Series;
- 5 Series;
- 5H Series;
- 5H Series;
- 6 C Series;
- 6 Series;
- 7 Series;
- 7000-9000 Series;
- Alpine Series;
- Landpower Series;
- PowerFarm Series;
- Powermondial Series;
- Rex Series;
- Trekker Series;
- Vision Series.

LAVERDA

New wiring diagrams have been developed for the model:

Combine harvester CATERPILLAR.

LIEBHERR

New wiring diagrams have been developed for the model:

- Bulldozer;
- Excavator;
- Loader;
- Telehandler.

LEEBOY

New wiring diagrams have been developed for the model: • Asphalt paver KUBOTA.

LINDE

New wiring diagrams have been developed for the models:

- H Series VOLKSWAGEN;
- H Series DEUTZ.

LINK-BELT

New wiring diagrams have been developed for the models:

- X2 Series;
- X3 Series;
- X4 Series;

MAGNI

New wiring diagrams have been developed for the models:

- Boom lift;
- Scissor lift;
- Telehandler.

MANITOU

New wiring diagrams have been developed for the models: • Telehandler.

MASSEY FERGUSON

New wiring diagrams have been developed for the models:

- 54xx Series;
- 57xx S Series;
- 64xx Series;
- 77xx S Series.

McCORMICK

New wiring diagrams have been developed for the models:

- C-Max Series;
- CX Series;
- F Series;
- F-N Series;
- MC Series;
- MTX Series;
- T-Max Series;
- TX4 Series;
- V Series;



- X4 Series;
- X5 Series;
- X6.4 Series;
- X6.4M;
- X7.4 Series;
- X7.6 Series.

MECALAC

New wiring diagrams have been developed for the models:

- Loader;
- Backhoes TLB Series.

MENZI MUCK

New wiring diagrams have been developed for the model: • Spider excavator.

MERLO

New wiring diagrams have been developed for the models:

- Concrete-mixer DBM Series;
- MMX Series;
- Telehandler MF MULTIFARMER Series;
- Telehandler P Panoramic Series;
- Telehandler ROTO Series;
- Telehandler TF TURBOFARMER Series.

MUSTANG by MANITOU

New wiring diagrams have been developed for the model: • Skid steers.

PAUS

New wiring diagrams have been developed for the models:

- Loader;
- Dumper;
- Telehandler.

PETTIBONE

New wiring diagrams have been developed for the models:

- Telehandler Extendo Series;
- Telehandler Traverse Series.

PRINOTH

New wiring diagrams have been developed for the model:

- Beast;
- Trooper.

SAME

New wiring diagrams have been developed for the models:

- Audax ST Series;
- Dorado Series (Mother regulation M.Y. 2018);

Software

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Consulting a wiring diagram

Dashboard



- Explorer Series (Mother regulation M.Y. 2018);
- Frutteto F / Frutteto S / Frutteto V CVT Series (Mother regulation M.Y. 2018);
- Fortis Series;
- Rubin Series;
- Virtus Series.

SANY

New wiring diagrams have been developed for the model: • Excavator.

SCHÄEFF

New wiring diagrams have been developed for the models:

- Loader;
- Excavator.

SENNEBOGEN

New wiring diagrams have been developed for the models:

- Crane truck;
- Excavator.

SNORKEL

New wiring diagrams have been developed for the model: • Boom lift.

SOLMEC

New wiring diagrams have been developed for the model: • Material handlers.

SUNWARD

New wiring diagrams have been developed for the model: • SWE Series.

SPIERINGS MOBILE CRANES

New wiring diagrams have been developed for the model:

- SK 1265 AT6 Euro 6+ (239->);
- SK 2418 R Euro 6+ (010->);
- SK 387 AT3 Euro 6+ (001->);
- SK 597 AT4 Euro 6+ (173->).

TADANO

New wiring diagrams have been developed for the model:

• GR Series.

TAMROCK

New wiring diagrams have been developed for the model: • Drills.

TAKEUCHI

New wiring diagrams have been developed for the models:

- Excavator TB Series;
- Skid steers TL Series;
- Skid steers TLV2 Series.

TEREX

New wiring diagrams have been developed for the models:

- Loader;
- Excavator;
- Skid steers;
- Site Dumper TA Series
- Backhoes TLB Series.

THWAITES

New wiring diagrams have been developed for the model: • Dumper.

VERMEER

New wiring diagrams have been developed for the model: • Horizontal drills.

VÖGELE

New wiring diagrams have been developed for the model: • Asphalt paver.

VOLVO CE

New wiring diagrams have been developed for the models:

- Compact Loader 5.5 t 6.1 t
- Compact Loader 6.2 t-9.5 t
- Dumper Tier 4 Final;
- Loader 11 t 56 t Tier 4 Final;
- Loader 13.1 t 94 t Tier 4 Final;
- Mini Excavator 1.6 t 9.9 t
- Backhoes.

WACKER NEUSON

New wiring diagrams have been developed for the models:

- Loader;
- Dumper;
- Excavator;
- Telehandler.

WEIDEMANN

New wiring diagrams have been developed for the models:

- Loader;
- Telehandler.



WIRTGEN

New wiring diagrams have been developed for the models:

- Planer;
- Scraper and stabilizer;
- Scraper;

XTREME

• New wiring diagrams have been developed for the model:

• Telehandler XR Series.

YANMAR

New wiring diagrams have been developed for the models:

- Loader;
- Excavator B7 Series;
- Excavator B75W / B95W / B110W Series;
- Excavator SV Series;
- Excavator ViO Series.

Software

Sanity Check

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WIRING DIAGRAMS

Consulting a wiring diagram

Dashboard

Coverage

texa.com/coverage



Consulting a wiring diagram

The interaction (diagnosis link) with the wiring diagrams has been improved and new technical sheets have been associated in the following models:

AEBI

- MT Series;
- Vario.

ANTONIO CARRARO

- Tractor KUBOTA.
- YANMAR tractor.

ARBOS

• VM tractor.

ATLAS COPCO

Roller-compactors.

ATLAS

• Excavator.

ASTEC

- Roadtec RX Series;
- Carlson CP Series.

BOBCAT

- Excavator E Series;
- Telehandler T / TL / TR Series.

BOMAG

- BF Series;
- BM Series;
- BW Series.

CASE CE

- Excavator CX Series;
- Excavator CXD Series;
- Backhoes SM Series;
- Dozer 1150K / 1650L;
- Dozer 550L / 650L / 750L / 850L;
- Dozer M Series;
- Loader E Series;
- Loader F Series.

CASE iH

- Farmall A Series;
- Farmall B Series;
- Farmall C Series;Farmall CL Series;
- Farmall CL Series
- Farmall M Series;
 Farmall N Series;
- Farmall V Series;
- Farmall U Series:
- Combine harvester Axial Flow FPT / Tier 4 Interim;
- Steiger Tier 4 Interim;
- Steiger Tier 4 Final;
- Sugar cane harvester Tier 4;
- Telehandler Farmlift Series Tier 4;
- Sprayer Titan Series Tier 4 Interim.
- Maxxum Series Tier 4 Interim M.Y. 2011;
- Puma Series Tier 4 Interim M.Y. 2011.

CATERPILLAR

- Asphalt paver;
- Cold planer;
- Bulldozer;
- Dumper;
- Graders;
- Loaders;
- Road reclaimer;
- Telehandler;
- Thresher Lexion;
- Roller-compactors.

CHALLENGER

- MT 700-800 B;
- MT 700-800 C;
- MT 900 C.

CLAAS

- Axion 900 Series FPT Tier 4 Interim (A23)
- Combine harvester Lexion 500 Series;
- Combine harvester Lexion 600 Series;
- Combine harvester Lexion 700 Series;
- Combine harvester Tucano 400 Series;
- Torion Series.



• Xerion Series.

Telehandler Scorpion Series

DEUTZ – FAHR

- 5 Series;
- 5D Series (Mother regulation M.Y. 2018);
- 5DF / 5DS / 5DV TTV Series (Mother regulation M.Y. 2018);
- 5G Series FARMotion (Mother regulation M.Y. 2018);
- 6 Agrotron Series;
- 6G Agrotron Series;
- 6 Agrotron TTV Series;
- 7 Agrotron Series;
- 9 Agrotron Series;
- Telehandler.

DIECI

• Telehandler.

DITCH WITCH

• Horizontal drills.

DOOSAN

- Excavator DX Series;
- Mini Excavator DX Series.

DYNAPAC

• Roller-compactors.

ENERGREEN

• ILF Series.

EUROCOMACH

- Excavator;
- Mini Excavator;
- Skid steers.

EUROMACH

• Spider excavator.

FARESIN

- Mixer Wagon Leader;
- Mixer Wagon Pioneer;
- Telehandler FH Series.

FENDT

- Vario 300 Series Tier 4 Interim (st 3b);
- Vario 500 Series Tier 4 Interim (st 3b) / Tier 4 Final (S4);
- Vario 700 Series Tier 4 Interim (st 3b) / Tier 4 Final (S4);
- Vario 800 Series Tier 4 Interim (st 3b) / Tier 4 Final (S4);

Software

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Consulting a wiring diagram

Dashboard



• Vario 900 Series Tier 4 Interim (st 3b) / Tier 4 Final (S4).

FUCHS

Material handlers.

GEHL

- Loader;
- Excavator Compact;
- Skid steers.

GENIE

- Boom lift S & SX Series:
- Telehandler.

GREGOIRE

• Grape and Olive harvesters.

GRILLO

• FD Series.

НАММ

- Compactor DV Series;
- Compactor HD Series.

HAULOTTE

• Boom lift.

HIDROMEK

Excavator.

HITACHI

- Excavator ZX Series 3;
- Excavator ZX Series 5;
- Excavator ZX Series 6;
- Excavator ZX Series 7;
- Loader ZW Series.

HOLDER

• X / C / S Series.

HURLIMANN

- XA Series (Mother regulation M.Y. 2018);
- XF / XS / XV V-Drive Series (Mother regulation M.Y. 2018);
- XB Series (Mother regulation M.Y. 2018);
- XL Series;
- XM Series.

HYSTER

• Forklifts.

HYUNDAI CE

- Excavators;
- Mini Excavator.

JCB

- Backhoes CX Series;
- Compactor VM Series;
- Dumper;
- Excavator;
- Excavator Compact;
- Forklifts JCB Ecomax;
- Loader 300 Series JCB Dieselmax;
- Loader 400 Series JCB Dieselmax;
- Loader 400 Series JCB Ecomax;
- Loader TM Series JCB Dieselmax;
- Loader TM Series JCB Ecomax;
- Site Dumper JCB Dieselmax;
- Site Dumper JCB Ecomax;
- Skid steers JCB Ecomax;
- Telehandler 500 Series JCB Dieselmax;
- Telehandler 500 Series JCB Ecomax;
- Road rollers JCB Ecomax.

JLG

- Boom lift;
- Telehandler.

JOHN DEERE CE

- Loader L Series;
- Excavator D Series;
- Excavator G Series;
- Skid steers.

JOHN DEERE

- 15xx Series;
- 2R Series;
- 3R Series;
- 4R Series.

JUNGHENRICH

• Forklifts.

KAMAZ

• T215.



KÄSSBOHRER GELÄNDEFAHRZEUG

• BeachTech 5500.

KATO WORKS

- Crane truck CR Series;
- Excavator HD Series.

KAWASAKI CE

• Loader.

KIOTI

• PX Series.

KOBELCO

- Excavator 10-85 Series
- Excavator 140-160 Series;
- Excavator 200-850 Series.

KRAMER

- Loader;
- Telehandler.

KRONE

• Shredder Big X Series LIEBHERR.

KUBOTA

- Excavator;
- Loader;
- M100 Series;
- M4000 Series;
- M5000 Series;
- M6000 Series;
- M7000 Series;
- MGX Series;
- Mxx40 Series;
- Mxx60 Series;
- RTV Series;
- Skid steers RT Series;
- Skid steers SVL Series;
- Telehandler KTH Series.

LAMBORGHINI

- Mach Series;
- Nitro Series;
- R6 Series;
- Spark VRT Series;
- Spark Series;
- Spire Series (Mother regulation M.Y. 2018);
- Spire F / Spire S / Spire V VRT Series (Mother regulation M.Y. 2018);

Software

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Consulting a wiring diagram

Dashboard



• Strike Series (Mother regulation - M.Y. 2018).

LANDINI

- 4 Series;
- 5 Series;5H Series:
- 6 C Series;
- 6 Series;
- 7 Series:
- 7000-9000 Series;
- Alpine Series;
- Landpower Series;
- PowerFarm Series;
- Powermondial Series;
- Rex Series;
- Trekker Series;
- Vision Series.

LAVERDA

Combine harvester CATERPILLAR.

LIEBHERR

- Bulldozer;
- Excavator;
- Loader;
- Telehandler.

LEEBOY

• Asphalt paver KUBOTA.

LINDE

- H Series VOLKSWAGEN;
- H Series DEUTZ.

LINK-BELT

- X2 Series;
- X3 Series;
- X4 Series;

MAGNI

- Boom lift;
- Scissor lift;
- Scissor lift;

MANITOU

• Telehandler.

MASSEY FERGUSON

• 54xx Series;

- 57xx S Series;
- 64xx Series;
- 77xx S Series.

McCORMICK

- C-Max Series;
- CX Series;
- F Series;
- F-N Series;
- MC Series;
- MTX Series;
- T-Max Series;
- TX4 Series;
- V Series;
- X4 Series;
- X5 Series;
- X6.4 Series;
- X6.4M;
- X7.4 Series;
- X7.6 Series.

MECALAC

- Loader;
- Backhoes TLB Series.

MENZI MUCK

• Spider excavator.

MERLO

- Concrete-mixer DBM Series;
- MMX Series;
- Telehandler MF MULTIFARMER Series;
- Telehandler P Panoramic Series;
- Telehandler ROTO Series;
- Telehandler TF TURBOFARMER Series.

MUSTANG by MANITOU

• Skid steers.

PAUS

- Loader;
- Dumper;
- Telehandler.

PETTIBONE

- Telehandler Extendo Series;
- Telehandler Traverse Series.



PRINOTH

- Beast;
- Trooper.

SAME

- Audax ST Series;
- Dorado Series (Mother regulation M.Y. 2018);
- Explorer Series (Mother regulation M.Y. 2018);
- Frutteto F / Frutteto S / Frutteto V CVT Series (Mother regulation M.Y. 2018);
- Fortis Series;
- Rubin Series;
- Virtus Series.

SANY

• Excavator.

SCHÄEFF

- Loader;
- Excavator.

SENNEBOGEN

- Crane truck;
- Excavator.

SNORKEL

• Boom lift.

SOLMEC

Material handlers.

SUNWARD

• SWE Series.

SPIERINGS MOBILE CRANES

- SK 1265 AT6 / Euro 6+ (239->);
- SK 2418 R / Euro 6+ (010->);
- SK 387 AT3 / Euro 6+ (001->);
- SK 597 AT4 / Euro 6+ (173->).

TADANO

• GR Series.

TAMROCK

• Drills.

TAKEUCHI

- Excavator TB Series;
- Skid steers TL Series;

Software

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Consulting a wiring diagram

Dashboard



• Skid steers TLV2 Series.

TEREX

- Loader;
- Excavator;
- Skid steers;
- Site Dumper TA Series;
- Backhoes TLB Series.

THWAITES

• Dumper.

VERMEER

• Horizontal drills.

VÖGELE

• Asphalt paver.

VOLVO CE

- Compact Loader 5.5 t 6.1 t
- Compact Loader 6.2 t-9.5 t
- Dumper Tier 4 Final;
- Loader 11 t 56 t Tier 4 Final;
- Loader 13.1 t 94 t Tier 4 Final;
- Mini Excavator 1.6 t 9.9 t;
- Backhoes.

WACKER NEUSON

- Loader;
- Dumper;
- Excavator;
- Telehandler.

WEIDEMANN

- Loader;
- Telehandler.

WIRTGEN

- Planer;
- Scraper and stabilizer;
- Scraper;

XTREME

• Telehandler XR Series.

YANMAR

- Loader;
- Excavator B7 Series;
- Excavator B75W / B95W / B110W Series;
- Excavator SV Series;
- Excavator ViO Series.



Dashboard

A new type of dashboard with interactive buttons and components has been developed.

ALLISON Transmission

New dashboards have been developed for all the vehicles with the automatic transmission system "Allison Generation 5".

CASE iH

New dashboards have been developed for the model:

• Puma Series.

New dashboards have been developed for the "Bosch MD1CS069" Diesel injection system.

CLAAS

New dashboards have been developed for the models:

- Axion 800 Series FPT Tier 4 (A40-A41);
- Axion 800 Series FPT Stage V (A50-A51);
- Axion 900 Series FPT Tier 4 Interim (A23);
- Axion 900 Series FPT Tier 4 Final (A44).

New dashboards have been developed for the "Claas CMatic" automatic transmission system.

CUMMINS Engine

• New dashboards have been developed for all the vehicles with the "Cummins" Diesel injection system.

DEUTZ Engine

• New dashboards have been developed for the "Bosch EMR4/EMR5 EDC 17/MD1 Tier 4 / Stage V" Diesel injection system.

DOOSAN Engine

• New dashboards have been developed for the "ECU Engine Control Unit 17 C 87" Diesel injection system.

• New dashboards have been developed for the "Bosch EDC 7" Diesel injection system.

FENDT

New dashboards have been developed for the model:

• 200 Vario.

FPT Engine

• New dashboards have been developed for the "Bosch EDC 7 UC 31 Diagnosis in CAN line" Diesel injection system.

• New dashboards have been developed for the "Bosch Denoxtronic 2" SCR after- treatment system.

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Consulting a wiring diagram

Dashboard





• New dashboards have been developed for the "Bosch EDC 17 CV 41" Diesel injection system.

• New dashboards have been developed for the "Bosch EDC 17 C 49" Diesel injection system.

• New dashboards have been developed for the "Bosch MD1CE101" Diesel injection system.

• New dashboards have been developed for the "Bosch EDC 17 CV 41" Diesel injection system.

HATZ

New dashboards have been developed for the "Hatz ECU Engine Control Unit" Diesel injection system.

ISOBUS

New TGS3 dashboards have been developed.

ISUZU Engine

New dashboards have been developed for the "Isuzu ECU Engine Control Unit Tier 4/ Stage V" Diesel injection system.
New dashboards have been developed for the "SCR Exhaust gas treatment" SCR/DPF after-treatment system.

JCB

New dashboards have been developed for the models:

- Telehandler 500 Series JCB Dieselmax Stage V;
- Excavator JCB Ecomax Hydradig model.

New dashboards have been developed for the "DCM 3.3+ Tier 4" Diesel injection system.

JLG

• New dashboards have been developed for the "Vehicle hydraulics management" hydraulic management system.

• New dashboards have been developed for the "Aerial platform management" hydraulic management system.

KUBOTA Engine

 $\boldsymbol{\cdot}$ New dashboards have been developed for the "ECU Engine Control Unit Tier 3

Stage V" Diesel injection system.

• New dashboards have been developed for the "SCR Exhaust gas treatment Tier 4 Final" SCR/DPF after-treatment system.

LIEBHERR Engine

New dashboards have been developed for the "Liebherr ECU2-HD" Diesel injection system.

LINDE

• New dashboards have been developed for the "DPF Burner control unit" SCR/ DPF after-treatment system.

• New dashboards have been developed for the "Bosch EDC 17 CP 20" Diesel injection system.

MASSEY FERGUSON

New dashboards have been developed for the models:

- 77xx S Series;
- 57xx S Series;
- 57xx SL Series.

MERCEDES-BENZ Engine

New dashboards have been developed for the "MR PF pump (PLD)" Diesel injection system.

MITSUBISHI Engine

New dashboards have been developed for all the vehicles with the "Mitsubishi Common Rail" Diesel injection system.

MTU Engine

• New dashboards have been developed for the "MCM Motor Control Module" Diesel injection system.

• New dashboards have been developed for the "ACM After-treatment Control Module" SCR/DPF after-treatment system.

MWM Engine

New dashboards have been developed for the "Bosch EDC 7C1" Diesel injection system.

NEW HOLLAND

New dashboards have been developed for the models:

- T6 Series;
- T7 Series.

SANY

• New dashboards have been developed for the "Mitsubishi ECU Engine Control Unit" Diesel injection system.

SCANIA Engine

• New dashboards have been developed for the "Scania EMS Engine Management System" Diesel injection system.

SISU Engine

• New dashboards have been developed for the "Sisu EEM4 Engine control unit" Diesel injection system.



VALTRA

• New dashboards have been developed for the "TC Transmission module" automatic transmission system.

VM Engine

• New dashboards have been developed for the "Bosch EDC 17 Tier 4" Diesel injection system.

VOLVO CE

- New TGS3 dashboards have been developed for the models:
- Loader 11 t 56 t;
- Compact Loader 5.5 t 6.1 t
- Compact Loader 6.2 t-9.5 t
- Dumper;
- Excavator 13.1 t 94 t;
- Mini Excavator 1.6 t 9.9 t;
- Backhoes.

• New dashboards have been developed for the "Volvo EDC UIS/PDE" Diesel injection system.

• New dashboards have been developed for the "Volvo Engine management" Diesel injection system.

• New dashboards have been developed for the "ACM After-treatment Control Module" SCR/ DPF after-treatment system.

YANMAR Engine

New dashboards have been developed for the "Yanmar ECU Engine Control Unit" Diesel injection system.

ZF

• New dashboards have been developed for the "Ergo Power EST 37" automatic transmission system.

• New dashboards have been developed for the "ZF Ecomat 2 EST 46/47" automatic transmission system.

• New dashboards have been developed for the "ZF Ecomat 4 EST 146/147" automatic transmission system.

Software

Sanity Check

Generic vehicle search

System search bar

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Automatic Troubleshooting translation

Diagnosis

AGRICULTURAL VEHICLES

CONSTRUCTION VEHICLES & SPECIAL VEHICLES

FORKLIFTS & TELEHANDLERS



Consulting a wiring diagram

Dashboard



Coverage

AGRICULTURAL VEHICLES

AEBI

AGRICULTURE TRAILER ANTONIO CARRARO ARBOS BCS **BELARUS BUHLER VERSATILE** CARRARO CASE iH CASE iH (LATAM) CATERPILLAR CHALLENGER CLAAS DEUTZ - FAHR **ENERGREEN FRO** FARESIN FENDT FERRARI FRANZ KLEINE GREGOIRE GRILLO GRIMME HOLDER HOLMER HORSCH HURLIMANN **ISOBUS** JACTO **JCB** JOHN DEERE JOHN DEERE (Brazil) KAMAZ KÄRCHER KIOTI KOMATSU FOREST KRONE KUBOTA LAMBORGHINI LANDINI LAVERDA LINDNER LS MTRON MAC DON MASSEY FERGUSON MASSEY FERGUSON (LATAM) McCORMICK **MERLO** MILLER **NEW HOLLAND**

NEW HOLLAND (LATAM)

PASQUALI PONSSE RENAULT AGRICULTURE ROPA ROSTSELMASH SAME STARA STEYR TORO URSUS VALTRA VALTRA (LATAM) VOLENTIERI PELLENC

CONSTRUCTION VEHICLE

AEBI ASTEC ASTRA ATLAS ATLAS COPCO BFLL BOBCAT BOMAG CARRARO CASE CE CASE CE (LATAM) CATERPILLAR CVS FFRBARI **DITCH WITCH** DOOSAN DYNAPAC FI A7 **EUROCOMACH** EUROMACH FANTU77I FUCHS GEHL GIANT GENIE GROVE HAMM HANSA HIDROMEK HITACHI **HYDREMA** HYUNDAL CF ITURRI **JCB** JLG JOHN DEERE CE

KÄSSBOHRER GELÄNDEFAHRZEUG KATO IMER KATO WORKS **KAWASAKI CE** KOBELCO KOMATSU **KRAMER** KUBOTA LEEBOY LIEBHERR LINK-BELT LIUGONG MAFI MECALAC MENZI MUCK **MERLO** MOW MUSTANG BY MANITOU NEW HOLLAND CE **NEW HOLLAND CE (LATAM)** 0&K **OSHKOSH OVERAASEN** PAUS PERLINI PRINOTH RANDON ROSENBAUER SANDVIK SANY SCHÄEFF SENNEBOGEN SOLMEC SPIERINGS MOBILE CRANES SUNWARD TADANO TAKEUCHI TAMROCK TERBERG TEREX/DEMAG THWAITES TIGERCAT VERMEER VÖGELE **VOLVO CE** WACKER NEUSON WEIDEMANN WIRTGEN XCMG YANMAR

KALMAR



Software

Sanity Check

Generic vehicle search

System search bar

"Most used" adjustments and codings

PRINT button for adjustment and activation DASHBOARDS

Help section for the **DASHBOARD** parameters

Error description display in the TGS3s DASHBOARDS

Fault notification ticket without Internet connection

Automatic Troubleshooting translation

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WIRING DIAGRAMS

Consulting a wiring diagram

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INDUSTRIAL ENGINES

AGCO SISU POWER ATLAS COPCO CATERPILLAR CUMMINS DETROIT DEUTZ DOOSAN FPT HATZ ISUZU **JCB** JOHN DEERE KOHLER POWER SYSTEMS KUBOTA LIEBHERR MAN ENGINES **MERCEDES-BENZ** MTU MWM PERKINS **SCANIA** SHIBAURA SULLAIR SISU VM MOTORI **VOLVO PENTA** YANMAR

TRAIN

CATERPILLAR **CUMMINS** DEUTZ **DOTTO TRAINS** FPT

MAN ENGINES **MERCEDES-BENZ** MTU

FORKLIFTS & TELEHANDLERS

BOBCAT

CASE CE CASE iH CATERPILLAR CLAAS COMETTO **DEUTZ - FAHR** DIFCI DOOSAN FARESIN GEHL GENIE GIANT HAULOTTE HELI HYSTER HYUNDAI **JCB** JLG JOHN DEERE CE JUNGHEINRICH KALMAR **KONECRANES** KRAMER KUBOTA LANDINI LIEBHERR LINDE MAGNI MANITOU MASSEY FERGUSON McCORMICK MERLO **NEW HOLLAND** ото PAUS PB PETTIBONE SENNEBOGEN SNORKEL

TAYLOR

UPLIFTING WACKER NEUSON WEIDEMANN **XTREME** YALE

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TEXA

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