

# a cricultural vehicles

# **INNOVATIONS 23.1**













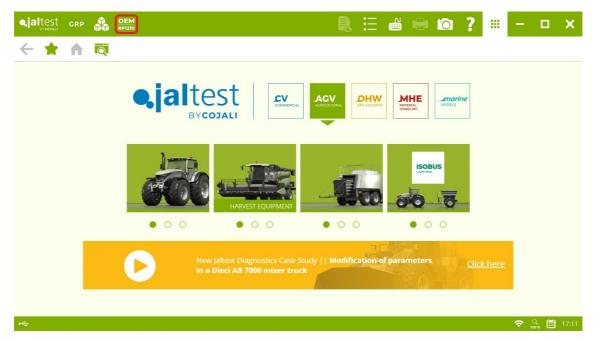
# SOFTWARE INNOVATIONS

The new software version Jaltest 23.1 once again offers more improvements and innovations that consolidate this tool as a benchmark in multi-brand diagnostics for commercial vehicles, agricultural equipment, OHW equipment, material handling equipment and vessels.

Overall, there are new improvements in the software usage, including:

- Ordering the measurement display by the user.
- Displaying the support information of a System Display in an action.
- Improved parameter confirmation with more limits, conditions and exceptions.

The additional module OEM|RP1210 module has also been added. Through the module OEM|RP1210 it is possible to configure and execute diagnostics tools of manufacturers that have been designed according to the standardised communication method RP1210, which defines good practices established by the TMC organisation with the aim of using communication devices compatible with this standard, such as Jaltest Link.



This version also enables the download of the **Jaltest University** training program from additional modules.













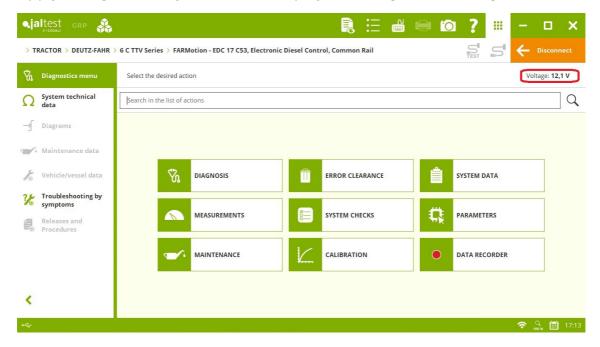
#### Connection test and communication bus test

Shortcut to the connection test and the communication bus test of the vehicle, allowing to verify the power supply, as well as the connection and communication errors in the diagnostics connector of the vehicle. In addition, enhanced display of the communication bus test by indicating the pins of the OBD and 9-pin Deutsch connectors that are checked.

← ★ <b>n</b> >=>	J > 8R Series > ECU HPCR (	Level 21 - Interim Tier 4 / 5	itage III I	B), Electronic Diesel Control, Common Rail
		Types 🔨	~	Select a system from the list and click on Connect button (Options: 44/44)
System technical data	All Systems Scan	ALL	≤ 1	Search by system name OActions
Diagrams	Main Systems Scan	Central computer	8	CAB. Cabin module
Maintenance data	Special functions (shortcuts)	Climate HVAC	×	CCU, Body computer
Vehicle/vessel data	Maintenance recet (shortcuts)	Electronic module	×	CLC, Cabin module
Troubleshooting by symptoms	Manual diagnosis	Engine	×	ECU HPCR (Level 21 - Interim Tier 4 / Stage III 8), Electronic Diesel
Releases and Procedures		Gearbox	≤	ECU HPCR (Level 24 - Tier 2 / Stage II), Electronic Diesel Control, Common Rail
		Hydraulic systems	8	ECU HPCR (Level 25 - Tier 3 / Stage III), Electronic Diesel Control, Common Rail
		Instrument cluster	8	ECU HPCR (Level 33 - Tier 4F/5 - Stage IV/V), Electronic Diesel Control,
<		Power take-off	×	ECU HPCR (Level 40 - Tier 4F/5 - Stage IV/V), Electronic Diesel Control, Common Rui



The supply voltage of the system is also displayed throughout the diagnostics session.















## GRP

Improved user experience in GRP thanks to the following innovations:

- Saving audios assigned to a report.
- Creating alarms from client lists, vehicles or reports.
- Improved management of report e-mail sending.
- GRP Analytics information by device in GRP Enterprise.

In addition, shortcuts to GRP vehicles can be created as favourites in brand forms. The management is performed from the vehicle list. This allows the user to create shortcuts to client fleets, vehicles, etc.

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Client list	Vehicles/vessels	€ (C) Vehicle/vessel groups				
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Reports	U Vehicle/vessel Vehicle/vessel	First Name	Ť			
Workshop management	TRACTOR	GROUP1		8	0	
My tasks	TRACTOR	GROUP2		8	0	
Reception						
Human resources						
Jaltest Telematics (ODF)						
Alarms and notifications						
Go back to Jaltest						
¢			Delete vehicle/vessel groups		Add nev e/vesse	



# **BRANDS AND MODELS**

Take into account that this document is only a summary of the most relevant information of this new version. For further information, please visit Jaltest Report.

Some of the new models and brands in Jaltest are listed below.

### TRACTOR

#### ARBOS

4090E, engine: Interim Tier 4/Stage IIIB 7220, engine: Tier 5/Stage IV 7260, engine: Tier 5/Stage IV













#### **CASE iH**

Steiger AFS Series – CVT, engine: Tier 5/Stage V

#### **DEUTZ-FAHR**

Agrokid 210/220/230 Agroplus F Keyline 5 DV/DS/DF TTV Series 5 G TB Series 5 Series

#### **KUBOTA**

LX Series

#### **MASSEY FERGUSON**

3300 F Series 4200 Series 6700 R Series

#### VALTRA

A 800 R A 990 R A 63F A 144 HiTech

## HARVEST EQUIPMENT

In this version, **BOURGOIN**, **OMC** and **OXBO** brands have been included.

#### CLAAS

Jaguar Series (502) forage harvester.













## SELF-PROPELLED AND TRAILING IMPLEMENT

This version includes **FLORY** (Self-propelled implements), **JACOBSEN** (Professional mowers) and **THOMAS** (Conveyor belts) brands.

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🔶 ★ 🏫 👼	> SELF-PROPELLED AND TRAILING IMPLEMENT > THOMAS						
	Search by category	^	Q	OName	OSystem	Category	OPropulsion type
Ω System technical data →∫ Diagrams	Conveyor belt Self-propelled hopper. 180 Elevator						
Maintenance data	2ft Drive Over Elevator						
🎉 Vehicle/vessel data	3ft Drive Over Elevator						
Troubleshooting by symptoms	Back-Over Elevator						
Releases and Procedures	Nut Bankout						
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# DIAGNOSTICS AND SYSTEMS

Take into account that this document is only a summary of the most relevant information of this new version. For further information, please visit Jaltest Report.

Overall, there are new technical information and troubleshooting guides (now **SMART guides**) by symptoms and of the most common fault codes in the workshop thanks to the communication channels with clients such as the technical support offered by the project, training, Jaltest Feedback and "Product improvement" option.

New maintenance of AdBlue/DEF module cleaning in **Deutz EMR4 – EDC 17CV52**, **EMR5 – EDC MD1**, **Sisu EEM4F – EDC 17 CV41** and **FPT EDC 17 CV41 + Denox 2.2** engine control systems.

The **MVCU** maintenance control system, of brands such as CLAAS, DEUTZ-FAHR, HÜRLIMANN, LAMBORHINI and SAME, extends its coverage with advanced functions such as the calibration of the hydrostatic unit or the slope sensor.













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> T	RACTOR > MASSEY FERGU	SON > 5700 Dyna-4 Series (Global) > EEM4F - EDC 17 CV41, Electronic Diesel Control, Common Rail	s	÷		
8	Diagnostics menu	SYSTEM CHECKS \ ADBLUE/DEF MODULE CLEANING				
Ω	System technical data	Clean the AdBlue/DEF circuit.				~
-{	Diagrams	Search in the guide	Q	$\checkmark$	^	×
	Maintenance data	Expand all steps				?
1	Vehicle/vessel data	Safety precautions.			^	
36	Troubleshooting by symptoms	- Step 1: Previous steps.				
	Releases and Procedures	F Step 1.1: Purge the AdBlue/DEF system.				
		Step 1.2: Locate the AdBlue/DEF dosing module.				
		Step 1.3: Remove the AdBlue/DEF injector.				
<		<ul> <li>Step 1.4: Place an appropriate container at the end of the pipe.</li> </ul>				
*		~	(+	<b>?</b>	Q 🛗	09:10

# TRACTOR

#### ARBOS

DCU exhaust gas aftertreatment system in Kohler engines, advanced system functions.

#### **CASE iH**

ostics menu		Voltage:	12,1 V
n technical	Search in the list of actions		
ims	Expand all actions		
enance data	- CONFIGURATION		5
le/vessel data			
leshooting by	DISPLAY PARAMETERS		
ses and dures	MODIFY PARAMETERS		
	n technical ims enance data le/vessel data leshooting by coms ses and	In tachinitati         Search in the lost of actions           Instantiation         Search in the lost of actions           Image: Search and all actions         Image: Search actions           Image: Search actins         Image: Search actins	trabilital         Evention the list of actions           continuities         Evention the list of actions

**REHR** spool valve control system, spool valve coding for Tier 5/Stage V models.

**TCM** transmission system, system parameter configuration.

Troubleshooting guides by fault code in several brand systems.

#### CHALLENGER

- New Chassis Controller Hitch hydraulic lift system.
- Auxiliar Husco Valves auxiliary hydraulic system.
- ⊕ MCM central computer.

C-18, J1939 engine control system, ash cleaning regeneration.













#### CLAAS

**MVCU** maintenance control system, checks of the forward and reverse clutches and the main clutch.

**EMR2** – **EDC** engine control system, signal activation.

**ACM** anti-pollution system, activation of the AdBlue/DEF system heaters.

#### **DEUTZ-FAHR**

⊕ **CLUSTER** instrument cluster.

**EMR4 – EDC 17 CV56** engine control system, AdBlue/DEF system checks.

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> TF	RACTOR > DEUTZ-FAHR	> 5 G TB Series > CLUSTER, Instrument cluster	
		Select the desired action	
Ω	System technical data	Search in the list of actions	Q
-{	Diagrams		
	Maintenance data		
ŀ,	Vehicle/vessel data		
3%	Troubleshooting by symptoms	🕅 DIAGNOSIS 📋 ERROR CLEARANCE	
Ø,	Releases and Procedures	MEASUREMENTS RARAMETERS O DATA RECORDER	
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#### FENDT

EOL 7 vehicle configuration control system in 400 Vario Series, engine: Tier 3/Stage III A and 700 Vario Series, engine: Tier 2/Stage II models.

New wiring diagram configurations of **Sisu** engine control systems in **900 Vario MT Series Final Tier 4/Stage IV** and **1100 MT Series Final Tier 4/Stage IV** models.

EEM4F - EDC 17 CV41 Master/Slave engine control system, component activation.

#### HÜRLIMANN

MVCU maintenance control system in XS/XV Series and XF Series models.

#### **JOHN DEERE**

🕀 TIQ transmission system.

TRACTOR > JOHN DEERE	> 8R Series > ECU HPCR (Level 40 - Tier 4F/5 - Stage IV/V), Electronic Diesel Control, Common Rail 🗧 🛒 🧲 Discon	tect
	E SYSTEM CHECKS \ CYLINDER PERFORMANCE TEST	
System technical data Diagrams	1 RULL PREST HE ACCLURATION ROAL REDCOVER NOTIONS THE BLORK HILL OF REAL PLANE THAT ATTRIBUTE BLOCKLITONS HIME REACED THE MAXIMUM RED BLOCK THE ROTATION REDUCE THE MALE REAL PROMINICALLY REDUCED TO IOL SPEET. THEN FRUIT RELAKE THE ACCLURATE REDAK, REPART HIS OPPENDIX ON THE PRE OF RADIANCE ALL PRESS HERE AND REDUCED TO IOL SPEET. THEN FRUIT RELAKE THE ACCLURATE REDAK, REPART HIS OPPENDIX ON THE PRE OF RADIANCE AND REDAK THE ACCLURATE REDUCED TO IOL SPEET. THEN FRUIT RELAKE	
Maintenance data	O PROCESSING	1
Troubleshooting by symptoms	CYUNDER 2	
Releases and Procedures		

#### ECU HPCR (Level 40 - Tier 4F/5 - Stage

**IV/V)** engine control system, cylinder cut-out, compression test and cylinder performance test.

**PTR** transmission system, system parameter configuration.

Dynamic System Display in the **QSX 15 CM2350** engine control system.



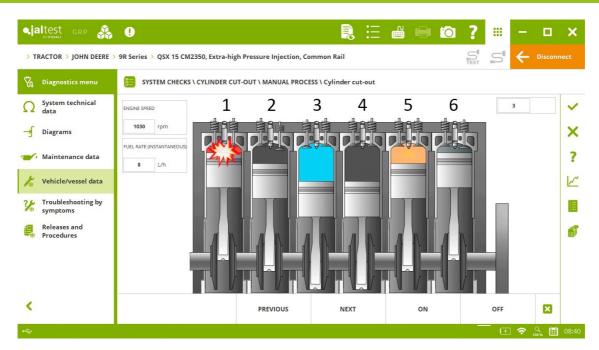












Troubleshooting guides by fault code in several brand systems.

In addition, technical data, wiring diagram configurations and component location images have been included in several systems of the brand.

-		Select another
Diagnostics menu	->- 2015-2017	configuration
☐ System technical data	Search in the component list	
J Diagrams	Show full list	37 s e
Maintenance data	+ Add personalised component information	
Vehicle/vessel data	CA1, Engine management control unit	74. I State I I
Troubleshooting by symptoms	CA210, Air conditioning compressor	?
Releases and Procedures	CA5020, AdBlue/DEF dosing module	
	CASSO1, AdBlue/DEF supply module	
	CAN H Drag Line, CAN High diagnostic	1.8
<	CAN L Diag Line, CAN Low diagnostic line	77 (N)



#### **MASSEY FERGUSON**

• EEM4 – EDC 17 C63 engine control system.

MFA armrest control system, joystick calibration.

#### **NEW HOLLAND**

**ADIC** instrument cluster, system parameter configuration.

**RPTO** front power take-off system, system parameter configuration.

**TCM** transmission system, system parameter configuration.

**ENG** engine regulation interface, system parameter configuration.

Troubleshooting guides by fault code in several brand systems.













In addition, new technical data available for ACM, ADIC and DEC systems in the T6 Series – DCT, engine: Final Tier 4/Stage IV model.

Nagnostics menu ystem technical lata	PARAMETERS \ MODIFY PARAMETERS     NEXT, SELECT A CONFIGURATION OPTION TO			
ystem technical lata	NEXT SELECT & CONFIGURATION OPTION TO			
	•	BE SAVED		
liagrams	THESE PARAMETERS WILL BE MODIFIED WHE	N COMPLETING THE PROCESS SUCCESSFULLY		
Aaintenance data	ENGINE BRAKE, INSTALLATION STATUS	INSTALLED	NOT INSTALLED	~
fehicle/vessel data				
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	ehicle/vessel data roubleshooting by ymptoms eleases and	ehicle/vessel data roubleshowing by repartments eleases and	ehick/wexis das weukschweinig im weukschweinig im	ebick/www.dka ewide/setworks/

	CTOR / NEW HOLDAND >	T4 Series, engine: Interim Tier 4/Stage IIIB > A	TIST III
Diagnostics menu	Components	Search component Q	CA9, Instrumentation
C System technical data		CA9, Instrumentation	Configurations: Wiring diagram ( Go to diagrams )
-J Diagrams		CAN H Diag Line, CAN High diagnostic line	11 4 4 4 1
Maintenance data		CAN L Diag Line, CAN Low diagnostic line	
Vehicle/vessel data		CB10, Rear power take-off revolution sensor	
Troubleshooting by symptoms		CB11, Wheel speed sensor	
Releases and Procedures		CB13, Accelerator pedal sensor	1 11 11 11 11
		CB15, Potentiometer of manual accelerator	
		CB23, Fuel level sensor	
<		CG1, Alternator	

#### SAME

MVCU maintenance control system in Frutteto S/V Series, Frutteto Series, Explorer TB Series and Frutteto CVT Series models.

EMR4 – EDC 17 CV52 engine control system, AdBlue/DEF module cleaning.

#### STEYR

EDC 17 CV41 + Denox 2.2 engine control system, AdBlue/DEF module cleaning.

Troubleshooting guides by fault code in several brand systems.

#### VERSATILE

**TC-PST** transmission system, **FAS** suspension system and **B4.5/6-7 CM2350** engine control system in the **175 Tractor** model.

# HARVEST EQUIPMENT

In harvest equipment, the **ACM** anti-pollution system, installed in models of brands such as **CLAAS**, **DEUTZ-FAHR** or **FENDT**, extends its coverage and advanced diagnostics functionalities such as the regeneration of the diesel oxidation catalyst or the system parameter configuration.

#### **CASE iH**

New troubleshooting guides by fault codes in the **ENG** engine regulation interface.

New System Display in the QSC 8.3 CM850 engine control system for Axial-Flow 5088/6088/7088/2566/2688/2799 models.













#### CHALLENGER

**EEM4F – EDC 17 CV41** engine control system, AdBlue/DEF module cleaning. In addition, new wiring diagram configurations.

#### CLAAS

+ CEBIS electronic module.

C4.4 / C6.6, J1939 engine control system, activation of the exhaust gas pressure regulator.

1204F, J1939 engine control system, activation of the fuel pump relay.

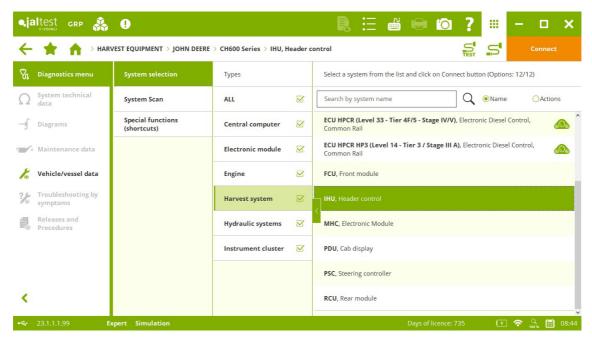
#### FENDT

⊕ ACM anti-pollution system.

New wiring diagram configurations available for the **EEM4 / EEM4F – EDC 17 CV54 / EDC 17 CV41** system.

#### **JOHN DEERE**

- 🕀 IHU header control system.
- ⊕ CSM modular switch panel.
- 🕀 CAB cab module.
- **PDU** cab display.
- + MHC electronic module.
- ⊕ PSC steering controller.
- ⊕ VCU central computer.















New guide to access the menu of harvester calibrations in the **PSC** system of **CH300 Series, CH500 Series** and **CH600 Series** models.

Troubleshooting guides by fault code in several brand systems.

In addition, new wiring diagrams and technical data available for the **FCU** front module.

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ЭН	ARVEST EQUIPMENT >	JOHN DEERE > CH600 Series > PSC, Steering controller	vect
		CALIBRATION \ ACCESS TO THE CALIBRATION MENU	
Ω	System technical data	Access to the calibration menu	~
-{	Diagrams	Search in the guide $Q_{\rm c}\vee\wedge$	×
	Maintenance data	Collapse all the steps	?
k	Vehicle/vessel data	Step 1: Access to the calibration menu	
3%	Troubleshooting by symptoms	Step 2: User calibrations	
e,	Releases and Procedures	Step 2.1: Available calibrations	
		Next, the possible calibrations to be performed are displayed. Depending on the configuration included, it is probably that the list does not coincide with the configurations available in the machine.	
		- Basecutter height.	
		Primany extractor fan	
<		Show check marks in the procedure steps.	
$*q_{\rm F}$	23.1.1.1.99	Expert Simulation Days of licence: 735 🔳 😤 🚆	08:45

#### **NEW HOLLAND**

⊕ EDC 17 CV41 Vector engine control system.

## SELF-PROPELLED AND TRAILING IMPLEMENT

As in tractors and harvest equipment, **Deutz EMR4 – EDC 17CV52**, **EMR5 – EDC MD1**, **Sisu EEM4F – EDC 17 CV41** and **FPT EDC 17 CV41 + Denox 2.2** engine control systems include the AdBlue/DEF module cleaning in models of brands such as **AGRIFAC**, **CASE iH**, **HOLMER**, **PELLENC** or **STORTI**.

Improved wiring diagrams and technical data in the ECU HPCR (Level 34 – Tier 4F/5 – Stage IV/V) system of brands such as COE, ENERGREEN, STRAUTMANN or WEISS MCNAIR.

The **EMS V4** engine control system, installed in models of brands such as **SITREX-AGM TATOMA** or **VERVAET**, extends its coverage with the EGR solenoid valve activation and the exhaust gas recirculation check.









