

e altest commercial vehicles

INNOVATIONS 20.3











SOFTWARE INNOVATIONS

The new software version **Jaltest 20.3** once again offers more improvements and innovations that consolidate this tool as a benchmark in **multibrand diagnosis** for commercial, agricultural and OHW (Off-Highway) vehicles.

Next, the most relevant software innovations are shown.

Update process without user intervention

The update process without user intervention is based on the configuration of previous installations.

Jaltest 20.3.1.1		>
	Welcome Welcome to the update program of Jaitest 20.3.1.1	
	ut to start. If you want to perform the update process unattended, check the following option. Otherwis amied out manually.	э,
✓ I agree to performed and the second se	rm the update in an unattended way (the configuration of previous installations will be used)	
Confirm that n	y diagnosis device is connected via USB to the PC and that the internet connection of the PC works	
Please, read carefu perform the installati	ly the terms of the agreement of licence of use. It is necessary that you accept the licence agreement to on.)
	See terms of the agreement of licence of use	
] I have read an	d accept the terms of the agreement of licence for use.	
	ogram is protected by Copyright Law and International Treaties. The unauthorized reproduction or ogram may result in severe civil and criminal measures. Non-compliance is prosecuted by the law until th nces.	ie
Quick Support	Next	

Jaltest Tools references

Tools from Jaltest Tools catalogue associated in troubleshooting, technical releases and actions. For example, it is possible to find information on Jaltest Tools references in ADAS system calibration guides, on engine flywheel rotator tools in start-up guides in IVECO Cursor engines among others, on Jaltest PTE (Portable Trailer E-Supply) device in connections to Trailer systems, etc.











ejaltest GRP 💓	ETM PASS THRU	⊕ 見 🗄	≝⊜©?≡-□×		Jaltest Tools	🖨 🔯 🛪
🔶 🚖 🏫 🤉 trai	LER > TRAILER > Trailer > Halo	dex EB+ 2nd generation, Brake management system	Connect	PTE (Portab	ble Trailer E-Supply)	
🖏 Diagnostics menu	Gialtest To connect, you	can use Jaltest Tools references <u>click here.</u>		Reference	: 50004001	
Ω System technical data	Available connections: 4	CONNECTION 1 - JDC 213.9 + JDC 110A	DIRECT CONNECTOR MULTIPINS			wer supply and the signals that are transferred
-J Diagrams	CONNECTION 1	Make sure to use the appropriate cable, whose reference must match the one disolayed. When the cable is	Location 1	communic	cation. In addition, PTE can be used as	, such as lighting, signalling signals, and CAN external power supply in the towed vehicle, with electronic control through the Jaltest
Vehicle service data	CONNECTION 2	not available, contact your distributor or use the multiplins	MALE ISO7638		c tool without tractor head.	and the control through the prices.
Vehicle technical data	CONNECTION 3	verify the cables and the pins of the diagnosis connector are not				
Troubleshooting by symptoms	CONNECTION 4	damaged.			12 12 12	
Releases and Procedures		the vehicle, of the system and of the diagnosis device. Check whether the vehicle battery is in perfect				
Repair times		conditions.				
		- Avoid connecting the diagnosis device with a moving vehicle.			112	
<		The remaining conditions of use may be found in the program.				
et.			0.000 (D)			

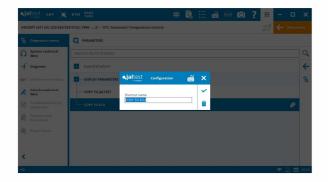
VIN data

- 😭 📅 5423AI	RT (A21 (NL 223/263/283/313) [1996])		
Diagnostics menu	System selection	Types 🔨	~	Select a system from the list and click on Connect button (Options: 48/48)
☐ System technical data	All Systems Scan	ALL	2	Bearch by system name Q Name OActions
Diagrams	Main Systems Scan	Antipollution	¥	ABS Ci12, Antilock braking system
Vehicle service data	Special functions (shortcuts)	Brakes	×	ABS Gamma 2E/2M, Antilock braking system
Yehicle technical data	ODR data (shortcuts)	Central computer	8	ABS KB3AL, Antilock braking system
Troubleshooting by symptoms	Maintenance reset (shortcuts)	Chassis module	×	ABS/ASR C, Antilock braking system
Releases and Procedures	Manual diagnosis	Climate HVAC	×	ABS/ASR D/E, Antilock braking system
Repair times		Data registration, telematics and	×	ATC, Automatic Temperature Control
		Electronic module	×	BUS ECAS, Electronically Controlled Air Suspension
<		Engine	Z	CRT filter, Catalyst continuous regeneration

The VIN number appears in the model selection path with accesses to the vehicle from GRP (number plate is also taken into account), from the vehicle browser by VIN or when connecting to a system if this data is obtained.

Shortcuts to special functions

When completing an action of a system (only if it has been carried out), the user can include it in the shortcut menu and customise the shortcut list to special functions.



🖏 Diagnostics menu	System selection	Types		Select a special function from the list and click on Connect button (Options: 28/28)
Ω System technical data	All Systems Scan	ALL	×	Bearch in the list of shortcuts to special functions
- Diagrams	Main Systems Scan	Antipollution	×	ABS KB3AL - Checking of the wheel speed sensors performance
Vehicle service data	Special functions (shortcuts)	Brakes	×	ATC - COPY TO ECU
K Vehicle technical data	ODR data (shortcuts)	Central computer	×	BUS ECAS - Calibration of suspension height sensors
Troubleshooting by symptoms	Maintenance reset (shortcuts)	Climate HVAC	×	EBS Knorr-Bremse 2.2-2.3 - Calibration of the yaw rate sensor
Releases and Procedures	Manual diagnosis	Engine	×	EBS Knorr-Bremse 2.2-2.3 - Check brake pads wearing
Repair times		Suspension	×	EBS Knorr-Bremse 2.2-2.3 - Steering angle sensor calibration process
				EBS2 - Wabco CBU - Reset or reboot of the system's safety memory and shutdown of the failure lamp











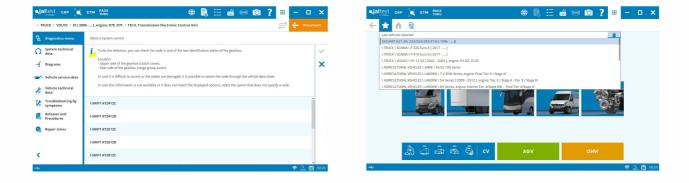
Others

Browser of the model families. A search filter has been included in the display form of the brand model list.

Display of the variant helps in the same form. The selection or edition helps of variants can be displayed in the same form. Users do not need to access through INFO button but they appear directly in the same edition or selection form of variant.

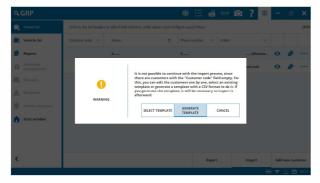
Edition of the table column size. The width of the table columns can be modified in the course of an action allowing the user to display better the data shown.

Deletion of the last diagnosed vehicle record.



GRP

Export/Import client list



It is possible to export/import the client list through Excel or CSV files quickly and easily. This allows the user to share the clients created in Jaltest with others from other platform or ERP of their company, and vice versa.

To do this, a new compulsory and single field called "Customer Code" has been created for each client. This field must be

completed before using this function. When clicking on "Import" button, the programme will advise the user about it providing them with a template so that they can fill out this field previously for all their current clients in GRP.











If the client list in GRP is empty, first of all, "Export" function should be used to create a template where table headers are generated. It is important not to modify the header value or column position of the table.

1	A	B	C	D	E	F	G	H	1	J	K
1	Customer Code	Name	VAT No.	Address	City	Postal code	Province	Country	Phone number	Fax	email
2	11	Name 1	CIF 1	Address 1	City 1	Postal code 1	Province 1	Country 1	Phone number 1	Fax 1	email 1
3	23	Name 2	CIF 2	Address 2	City 2	Postal code 2	Province 2	Country 2	Phone number 2	Fax 2	email 2
4	45	Name 3	CIF 3	Address 3	City 3	Postal code 3	Province 3	Country 3	Phone number 3	Fax 3	email 3
5	67	Name 4	CIF 4	Address 4	City 4	Postal code 4	Province 4	Country 4	Phone number 4	Fax 4	email 4
6	83	Name 5	CIF 5	Address 5	City 5	Postal code 5	Province 5	Country 5	Phone number 5	Fax 5	email 5

If clients in GRP already exist, "Export" function should be used to export an empty template or the template with data of the

current clients. In this way, it is possible to update the data from them. By using these templates and creating data in the table, the user can already import all the clients of their ERP and keep GRP up to date in Jaltest.

S Reg	fehicle list leports Vorkshop nanagement	Click on the list headers Customer code V 12 34	to add of hide columns, order valuers and Name Name 1 Name 2	d configure search filte Phone numbe Phone	er 1 email		~		(5/
👩 Rej	teports Vorkshop nanagement	12	Name 1	Phone numb	er 1 email				
Mo ma	Vorkshop nanagement					1	C		
lul ma	nanagement	34	Name 2	Phone numb					
100 M					er 2 email	2	C		
and my	ily tasks	56	Name 3	Phone numb	er 3 email	3	C		
A Res	teception	78	Name 4	Phone numb	er 4 email	4	o		
∰р На	luman resources	90	Name 5	Phone numb	er 5 email	5	c		
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	<	¢	<	¢	<	K taper.	C Export Import	Expert Ac	C Expert Expert Addresses

Improvement of client and vehicle list forms

Possibility of showing more columns in the vehicle and client lists, show/hide columns function, possibility of ordering new filters, etc.

Price/Hour by user

		names	
2 Clark	Mille	er.	
E-Mail		Prie	e / Hour
*User		*User type	
clark		Service manage	r 🗸
	receive an email with a cated instructions.	a temporary passwo	rd, please,

The possibility of defining a Price/Hour for each user in GRP allows the user to create diagnosis and repair order reports with more accurate data. If a Price/Hour is not defined for each user, the one defined in the Configuration menu (user settings)> Company data will be used.











BRANDS AND MODELS

FIAT

Talento 1.6 with R9M engine type.

FORD

Transit Custom 2.0 [2018 - ...].

HYUNDAI

H-1, iMax, iLoad 2.5 CRDi Euro 6 and MIGHTY models (Asia & Oceania).

IVECO

Scudato (LATAM) models.

MAHINDRA

Scorpio Pick-Up 2.2 CRDe (LATAM, Indian).

MERCEDES-BENZ

Sprinter 910 with OM 651 engine type.

MITSUBISHI

L200/Triton with 4N15 engine type.

MITSUBISHI FUSO

Supergreat 17 with OM470 engine.

NISSAN

Frontier 2.5 YD25 with D40 engine type.

PSA Group

Citroën Jumper and Peugeot Boxer 2.2 BlueHDi [2019 - ...] models.

UD TRUCK

Quon Euro 4 (GE13 Nissan Diesel).

VOLKSWAGEN

Amarok 3.0 TDI.











DIAGNOSIS 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, technical information and troubleshooting of the most common error codes in the workshop have been expanded thanks to the communication channels with clients such as the technical support offered by the project, training, Jaltest Feedback and "Product improvement" option.

We work each update to expand the references and variants of all systems increasing coverage and ensuring the reliability of interactions with vehicle systems.

The SAE J1939 regulation has been expanded and updated with more than 4300 new measurements and 4000 error codes.

We continue working on developing the most important actions that offer solutions for workshop, for example, the programming of the Denoxtronic 2.2 module has been developed in the **Cummins ISB6.7 CM2250** system that is in several brands. In this brand, Multiplex parameters have been developed in more than 20 systems.

TRUCK and BUS

DAF

EAS/EAS2 exhaust gas aftertreatment system, module programming *(functionality available with Internet access).*

EAS 3 exhaust gas aftertreatment system, system checks such as the fuel metering valve activation among others.

EAS 4 exhaust gas aftertreatment system, unlock function of the Diesel Particulate Filter regeneration.

ZF Traxon transmission, activations in System Display.

BEM battery supply Control Unit in **CF** and **XF E6** models, battery charge level reset and replacement.











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> TE	RUCK > DAF > XF105 >	EAS/EAS-2, Exhaust gas treatment system								S	÷	
8	Diagnostics menu	PARAMETERS \ PROGRAMMING OF THE CONTR	DL UNIT (ISOLAT	ED ECU)								
Ω	System technical data	1 THE PROCESS HAS FINISHED										~
-ſ	Diagrams											×
•	Vehicle service data	VIN CODE (VEHICLE IDENTIFICATION NUMBER)						XLRTE	47MS06	652259		?°
10	Vehicle technical data	SOFTWARE VARIANT: COMPONENTS GROUP 1084							1818644			6
3%	Troubleshooting by symptoms	SOFTWARE VARIANT: COMPONENTS GROUP 1087							194559	5		
٢,	Releases and Procedures	PARAMETERS TABLE VARIANT: COMPONENTS GROU	P 1088						178759			
0	Repair times	SOFTWARE VARIANT: COMPONENTS GROUP 1093							1742443	,		
		SOFTWARE VARIANT: COMPONENTS GROUP 1283							174244	1		
<		LAST PROGRAMMING DATE										

> TR	RUCK > DAF > XF E6 (Ne	KTM PASS (# 1960) (# 1990) (#
8	Diagnostics menu	MEASUREMENTS \ SYSTEM DISPLAY \ System status (Activations)
Ω	System technical data	
ſ	Diagrams	Start tot totant solvewar o 15000
· ·	Vehicle service data	
	Vehicle technical data	
12	Troubleshooting by symptoms	
٢,	Releases and Procedures	
Q,	Repair times	
<		SECTOR GALF FORTON SAVE GROUP FORTON SOUTH GROUP

HINO

N04C engine control system in **300 Series** models, Diesel Particulate Filter reset.

A05C engine control system in 500 Series models, operation data reset.

ISUZU

• New 6WG1 and 6WF1 engine control systems in C&E -GIGA Series models (JDC 219A connector in Oceania).

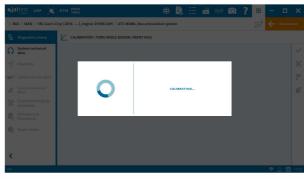
ADAS system, Wabco OnGuard Plus for ISUZU in N Series models.

IVECO

MAN

Denoxtronic 2.1 exhaust gas aftertreatment system, programming of the module for some of its variants. This programming is also possible in **IRISBUS buses** *(functionality available with Internet access)*.

BCM central computer in Euro 6 models, battery replacement.



ADC MD1 ASM2020 engine control system, component activation.

EAM compressed air processing and generation system in **12C** and **18C Lion's City** buses, dryer filter calibration after replacing the component.

ATC Mobil articulation system, calibration of the front rotation angle sensor and articulation sensor.









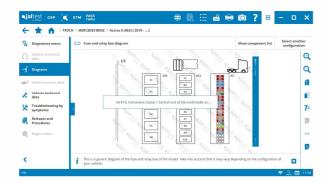


MERCEDES-BENZ

MPC lane change detection system in buses, dynamic calibration of the camera.

⊕ New systems in Actros 5 (963) and Arocs 5 (964) models with technical information available such as the EAPU 03T compressed air processing and generation system.
 Fuse and relay box diagram is included in the models.

Engine type technical data in **Unimog** and **Econic** models.





MITSUBISHI-FUSO

4M50 (K Line) engine control system in **Rosa** buses, reset and regeneration of the Diesel Particulate Filter, automatic configuration of the transmission, etc.

4P10 Euro 6 engine control system, power take-off parameters, speed limit configuration, etc.

NISSAN

EXAMPLE 2F 6AS700 transmission in NT500 models.

RENAULT

VECU engine control unit in models with V2 technology, fan working parameters.

VMCU engine control unit, battery reset and automatic shutdown of the engine at idle parameter.

CCM climate control, activations in the auxiliary heater components.

m technical ams	1 NEXT, ENTER AND/OR SELECT VALUES OF THE	PARAMETERS THAT YOU WISH TO SET	
ams			
le service data	SHUTDOWN OF THE ENGINE AT IDLE (EXECUTION CONDITION: ENGINE WARMI	OK (EXECUTION CONDITION: APPLICABLE)	OK (EXECUTION CONDITION: V
le technical	SHUTDOWN OF THE ENGINE AT IDLE, LIMIT TEMPERATURE OF ENGINE WARM-UP	44 °C	47
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SCANIA

Diesel Particulate Filter replacement procedure in Euro 6 models with access from "Vehicle data" and "Releases and Procedures" menu. New **DC07 Euro 6** engine types have also been included in **New P Series** models.

- 🛣 🏦 > TRU	ICK > SCANIA > P 410 Euro 6 [2017]		🗲 🚖 🏠 > TRU	CK > SCANIA > P 410 Euro 6 [20	17]		
Diagnostics menu	Replace the diesel particulate filter (DPF)	←	🐕 Diagnostics menu	Engine type: 410 (DC13 141) XPI - Euro 6 [2017]		Select another engine type
System technical data	Collapse all the steps		Ω System technical data	Types 🔨 🗸	Sections 🔨 🗸	Search in technical data	$q \vee$
Diagrams	Step 3.5: Install the assembly and disassembly tool of the particulate filter	^	-J Diagrams	Oversupply	Crankshaft	Tightening torques (Cylinder head)	
Vehicle service data	Adjust the extraction screw (4) in the pressure plate (C) and block it with the closing rod (D). The washer and the nut (B) must lean against the inner side of the support element		Vehicle service data	Lubrication	Connecting rod	Cylinder head Tighten the screws in numerical order according to the fig	gure
Vehicle technical data			to Vahicla technical data	Cooling system	Cylinder head	Use the screws 3 times maximum. Make a mark on the screws' head with a punch; if three m replace them.	narks are observed,
Troubleshooting by symptoms			% Troubleshooting by symptoms	Adjustments and tolerances	Flywheel	1 ATON	
Releases and Procedures			Releases and Procedures	Tightening torques	Vibration damper	1 0 0 s	
Repair times			Repair times	Liquid capacity and quality	Rocker arm	1609	
	Step 3.6: Adjust the pressure plate in the particulate filter manually			Anti-pollution system	Engine lubrication	6-0 0-1 2	
	Show check marks in the procedure steps.		(Electrical system	Fuel system	1st phase: 60 Nm	

EMS EMD1 engine control system, basic adjustment of the power take-off adaptation and new checks such as the Diesel Particulate Filter differential pressure sensor test, among others.

EMO2 (LNG Euro 6) engine control system in the **R 410 Euro 6** model, system activations.

New parameters such as the driving behaviour in **GMS** transmissions or the light configuration in the **VIS** lighting system.

Example 2F Ecolife 4 transmission in buses.

VOLVO

Replacement procedure of the sleeves and injectors in Common-Rail **D13K** engines of Euro 6 model.

US driver assistance camera in models with V4 technology.

EBS braking system in models with V4 technology, configuration of the brake performance factor of the tractor head regarding the trailer.

TECU transmission in models with V3 and V4 technologies, check of the clutch synchronisation and modification of the highest starting gear parameter.











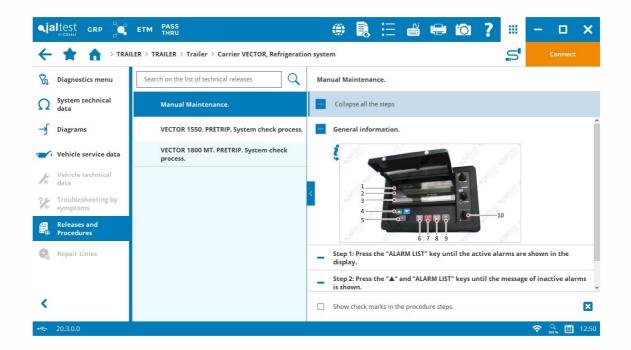
TRAILER

CARRIER

Vector system, manual maintenance procedure.

KNORR-BREMSE

TEBS Gen2 braking system, continuous updating and improvement of developed references and variants.



LIGHT VEHICLES

FIAT

CFC 348 CAN transmission in **Ducato** models, it includes wiring diagram.

FORD

⊕ SID 212 engine control system in Transit Custom 2.0 [2018 - ...] models, it includes wiring diagram.

IVECO

Agile (K Line) transmission in Euro 3/4 models, it includes wiring diagram.











MERCEDES-BENZ

FAG 910 (9G-Tronic) transmission in the new Sprinter WDB910 model with OM651 engine.

CR41 engine control system, Diesel Particulate Filter regeneration and reset, activations, operation data, checks, etc. in the **Sprinter WDB907** model. In this model, the instrument cluster maintenance reset and the ESP sensor calibration have also been developed.

EFB parking brake system in the **Vito [447]** model, calibration after replacing brake pads.

NISSAN

EDC 17 C84 engine control system in the NV300 model with R9M engine, maintenances.

PSA Group

DCM 6.2 engine control system in **Citroën Jumper** and **Peugeot Boxer 2.0 BlueHDi [2015** - **2019]** models, injector coding, EGR calibration, activations...

RENAULT

In these models, the Diesel Particulate Filter regeneration and injector coding have also been developed in the **SID 310** engine control system and technical information has also been included in the **UDM** AdBlue/DEF dosing system.

VOLKSWAGEN

EDC 17 C64 UDS engine control system in Crafter [2E, 2F] [2011 – 2016] models, checks and maintenances.

