



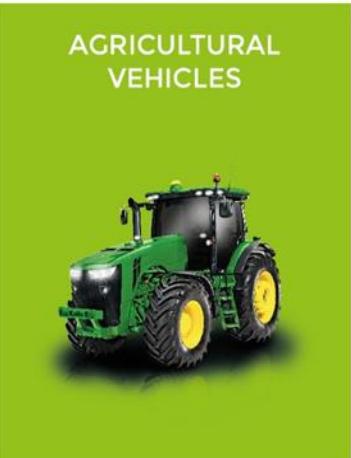
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AGRICULTURAL VEHICLES



JALTEST AGV 18.3

Presentation of Innovations



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1. INTRODUCTION TO JALTEST AGV

The new software version Jaltest AGV 18.3 once again offers more improvements and innovations that consolidate this tool as a benchmark in multibrand diagnosis for Agricultural Tractors, Combine Harvesters, Forage Harvesters, Telescopic Handlers, **and much more...**

Below is a summary of the Jaltest AGV 18.3 version update, which includes, among others, the following innovations:

- New Isobus (ISO 11783) function
- New specific harvest systems, Claas Harvesters
- New checks and maintenance functions, Final Tier 4 Deutz Engines
- New functions on Mercedes Benz Final Tier 4 Engine
- New parameters, John Deere systems
- New maintenance system, Massey Ferguson 700 Series Final Tier 4 DCC cluster
- New parameters, Valtra transmissions
- New specific diagnosis for ZF Transmissions

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](#).

2. NEW SOFTWARE FUNCTIONS

2.1. JALTEST SOFT

2.1.1. Model filter "Search by system"

A new filter is added in the model selection of a brand. In order to facilitate the model selection, from now on you can filter the model family, search by name, search by category and/or use the new "Search by system" filter.

2.1.2. Component search in the model system list

In which system can I find a specific sensor?

Which control unit is the rear hitch position sensor in a John Deere 6170R model connected to? In the central computer, in the instrument cluster or maybe in the hydraulic system?

From now on, with Jaltest Soft you can search a component through the "Component search in the model system list" hyperlink by selecting the model which you want to search in. This option is available in the "Diagrams" main menu.

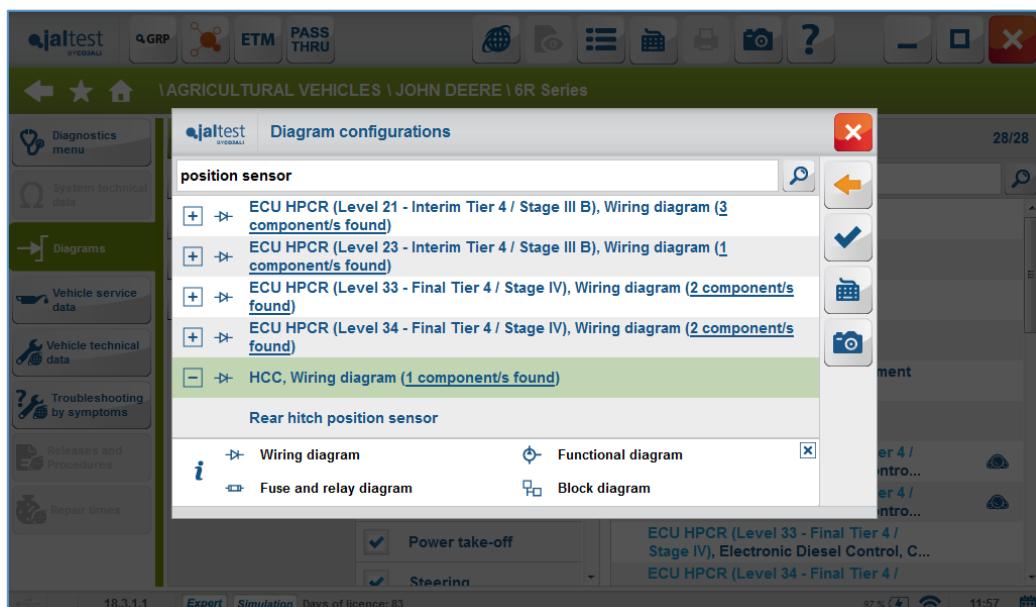


Image 1 Search by text "position sensor" in the diagram configurations

2.1.3. Maintenance reset shortcuts

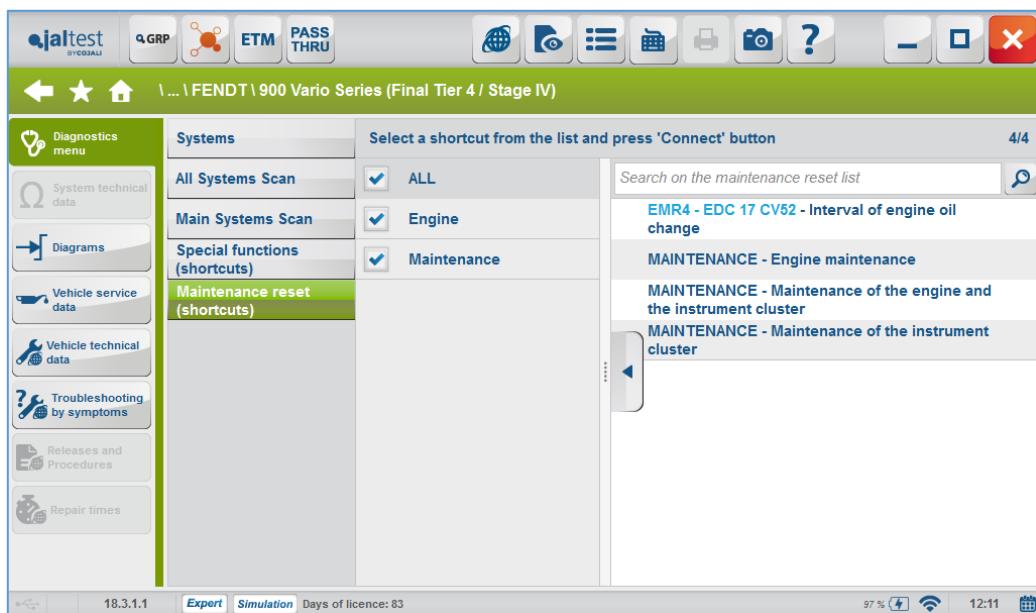


Image 2 Maintenance reset shortcuts in Fendt 900 Vario Final Tier 4

2.1.4. Other functions

- **The function list of a system is adjusted to the parameter configuration** in the vehicle. If a parameter that affects to the configuration is changed, that is, to the number of actions that are listed in the diagnosis menu of a system, the functions dependent on the new established configuration are added or deleted.
- **Memory of the measurement selection** in the same diagnosis session. The measurements that have been displayed remain selected if you do not disconnect from the system. This allows you navigating and launching other functions without losing the previously selected measurements.
- **Improvement in the maintenance report configuration.** In this version, you can select whether or not the technical data sections of a maintenance service are displayed in the reports.

2.2. GRP

2.2.1. *Tool use history*

The “Tool use history” function is within the “Workshop management” menu of GRP and is only available to the “Administrator” user. In this menu, you can filter by user, by Jaltest Link device (for GRP Enterprise) and by date.

3. NEW DIAGNOSIS FUNCTIONS 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](#).

3.1. Isobus (ISO 11783)

- New **Isobus (ISO 11783)**, Available for compatible AGV vehicles.

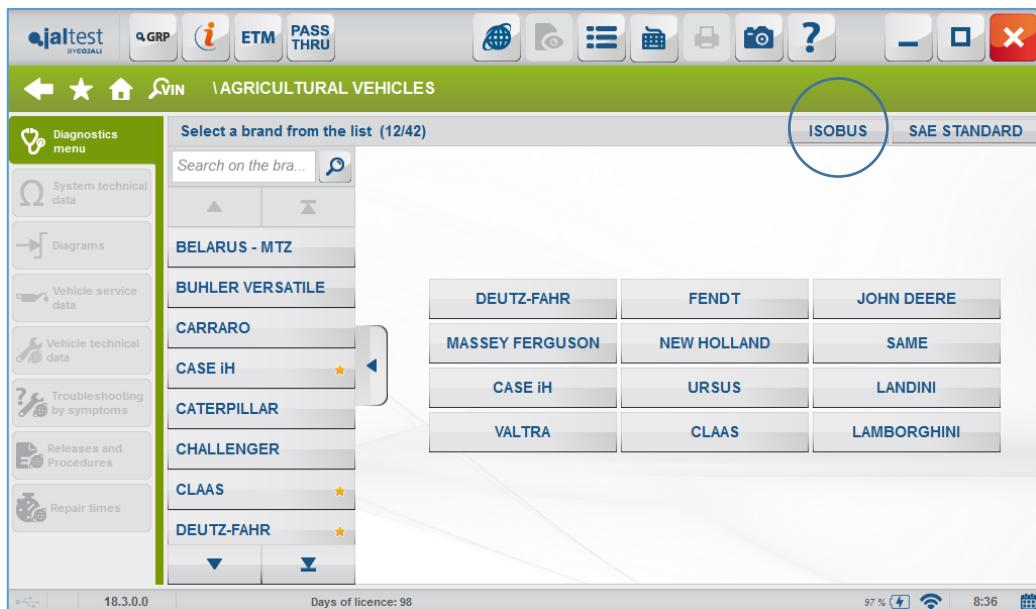


Image 3 Main AGV menu

- Advanced **diagnostic functions** for all systems.
- Specific **measurements selection** for all systems.
- Tractor ECU (**TECU**) compatibility check.
- **Isobus functionality check** for all systems.

3.2. Claas

- New functions on MCM and ACM, Mercedes Benz Final Tier 4, Forage and Combine Harvesters
 - o Injector coding
 - o Actuation of the Boots Pressure Actuator
 - o Actuation of the Exhaust Gas Recirculation actuator
 - o Cylinder compression
 - o Quantity correction at idle check
 - o Exhaust Gas Recirculation actuator check
 - o Exhaust Gas Recirculation actuator calibration
 - o Metered quantity measurement, Adblue/Def check
 - o Adblue/Def pump check
 - o Sealing of the Adblue/Def dosing unit check
- New specific harvest systems: Combine Harvesters
 - o CFM - Fan Drive Module
 - o EHS - Electro-hydraulic Gearshift Module
 - o ACU - Advanced Control Unit
 - o ACU 2 - Advanced Control Unit 2
 - o RSM - Radial Spreader Module
 - o HPA - Cutting angle adjustment module
 - o GUA - Grain tank Unloading Aid module

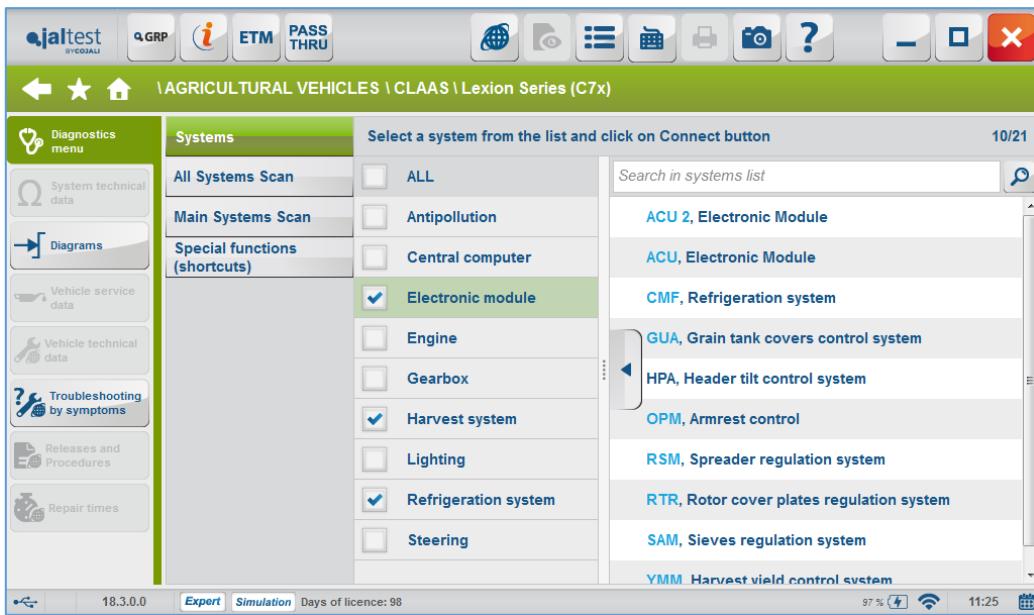


Image 4 New Combine Harvesters systems

- Available in models:
 - o Lexion Series (C4x)
 - o Lexion Series (C5x)
 - o Lexion Series (C6x)
 - o Lexion Series (C7x)
- **New specific harvest systems:** Forage Harvesters
 - o OPM - Operating Panel Module
 - o SBM - Shearbar Adjustment Module
 - o ACU - Advanced Control Unit

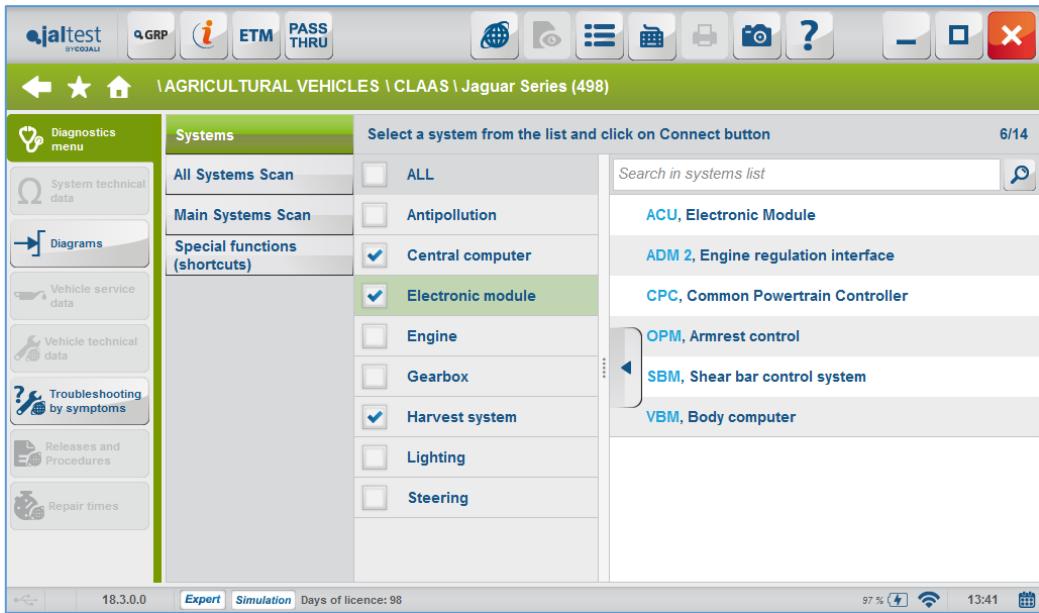


Image 5 New Forage Harvesters systems

- Available in models:
 - Jaguar Series (494)
 - Jaguar Series (496)
 - Jaguar Series (497)
 - Jaguar Series (498)
 - New Air Conditioning Systems for Tractors
 - ACM - Automatic air Conditioner Module (Includes Calibration)
 - ACC - Automatic Climate Control
 - Available in models:
 - Arion 4X0 (A32 / A43)
 - Arion 5X0 (A18 / A34 / A35)
 - Arion 6X0 (A19 / A36 / A37)
 - Axion 8X0 (A09 / A30 / A31 / A40 / A41)
 - Axion 9x0 (A23 / B06)
 - New Calibration for TR1, Transmission Quadrishift/Hexashift

- Available in models:
 - Arion 4XO (A21)
 - Arion 5XO - Hexashift (A34 / A35)
 - Arion 6XO - Hexashift (A36 / A37)
 - Axion 8XO - Hexashift (A40)
- New Calibration for REH, Rear Electronic Hitch
- Available in models:
 - Arion 4XO (A32 / A43)
 - Arion 5XO (A34 / A35)
 - Arion 6XO (A36 / A37)
 - Axion 8XO (A40 / A41)
 - Axion 9xO (A23 / B06)
- New Calibration for TCU, Transmission Cmatic
- Available in models:
 - Arion 5XO - Cmatic (A34 / A35)
 - Arion 6XO - Cmatic (A36 / A37)
- New wiring diagrams and system technical data in Combine Harvesters
 - ACU - Advanced Control Unit
 - ACU 2 - Advanced Control Unit
 - GDM - Ground Drive Module
 - RTR - Rotor cover plate adjuster module
 - MCM - Motor Control Module (Final Tier 4)
 - ACM - Aftertreatment Control Module (Final Tier 4)
 - MR - Motor Regelung (Interim Tier 4)
 - SCR Bluetec (Interim Tier 4)
- Available in models:
 - Lexion Series (C4x)
 - Lexion Series (C5x)
 - Lexion Series (C6x)
 - Lexion Series (C7x)

- Lexion Series (5xx)
 - Medion Series
 - Mega Series
 - Tucano Series (Lxx)
 - Tucano Series (COx)
 - Tucano Series (C24 / C26 / C28)
 - Tucano Series (C30 / C34 / C38)
 - Tucano Series (C20 / C21 / C22)
- New **wiring diagrams** and system **technical data** in **Forage Harvesters**
- VBM - Vehicle base module
 - GDM - Ground Drive Module
 - ACU - Advanced Control Unit
 - MCM - Motor Control Module (Final Tier 4)
 - ACM - Aftertreatment Control Module (Final Tier 4)
 - MR - Motor Regelung (Interim Tier 4)
 - SCR Bluetec (Interim Tier 4)
- Available in models:
- Jaguar Series (492)
 - Jaguar Series (493)
 - Jaguar Series (495)
 - Jaguar Series (494)
 - Jaguar Series (496)
 - Jaguar Series (497)
 - Jaguar Series (498)
- New **Vehicle technical data** and **Vehicle service data**, all **Claas Tractors**
- Available in models:
- | | |
|-------------------|-------------------------|
| ○ Ares 5X6-6X6 | ○ Ceres |
| ○ Ares 5X7-6X7 | ○ Elios |
| ○ Arion 5X0 Cebis | ○ Arion 4X0 |
| ○ Arion 5X0 Cis | ○ Arion 5X0 - Hexashift |
| ○ Arion 6X0 Cebis | ○ Arion 5X0 - Cmatic |
| | ○ Arion 6X0 - Hexashift |
| | ○ Arion 6X0 - Cmatic |

- Arion 6X0 Cis
- Atles 9X5-9X6
- Atles 9X5-9X6
- Axion 8X0 Cebis
- Axion 8X0 Cis
- Celtis
- Arion 6X0 C
- Axos

3.3. SDF Group (Same, Deutz-Fahr, Lamborghini and Hürlimann)

- New functions on Engine Deutz EMR4 EDC 17 CV52
 - System Checks
 - EGR System Test
 - EGR Valve opening control
 - Intake throttle valve
 - Diesel particulate filter
 - Maintenance
 - EGR (Exhaust gas recirculation) System Reset
 - Particulate filter replacement
 - Soot content on the particulate filter
 - Replacement of the diesel oxidation catalyst (DOC)
- Available in models:
 - 6 Series
 - Match Series
 - R6 100 Series (IT4)
 - R6 200 VRT Series
 - Audax
 - Fortis 100 Series

- 6 TTV Series
 - 7 Series
 - 7 ST Series
 - 7 TTV Series
 - 9 Series
-
- **Display System Scan**, Increasement of the models with manual diagnosis
-
- **Display System Scan**, Increasement of manual calibrations
 - Clutch pedal calibration.
 - Accelerator manual calibration.
 - Calibration of the accelerator pedal
 - Rear lift calibration
 - Steering angle sensor calibration process
 - Climate control calibration.
 - Transmission calibration
 - Calibration of the power take-off solenoid valve
 - Calibration of the front axle speed sensor
 - Cabin suspension calibration.
 - Spool valves joystick calibration
-
- **New functions** on ZF Transmissions, PowerShuttle T7000 Series
 - New Calibrations
 - Oil pressure of the clutch engagement
 - Clutch pedal potentiometer
-
- #### 3.4. Fendt
- **New functions** on Engine Deutz EMR4 EDC 17 CV52

- System Checks
 - EGR System Test
 - EGR Valve opening control
 - Intake throttle valve
 - Diesel particulate filter
- Maintenance
 - EGR (Exhaust gas recirculation) System Reset
 - Particulate filter replacement
 - Soot content on the particulate filter
 - Replacement of the diesel oxidation catalyst (DOC)

3.5. John Deere

- New **System PTA**, Transmission Autopower IVT
 - PTA, Advanced functions available: Transmission calibration and transmission system check

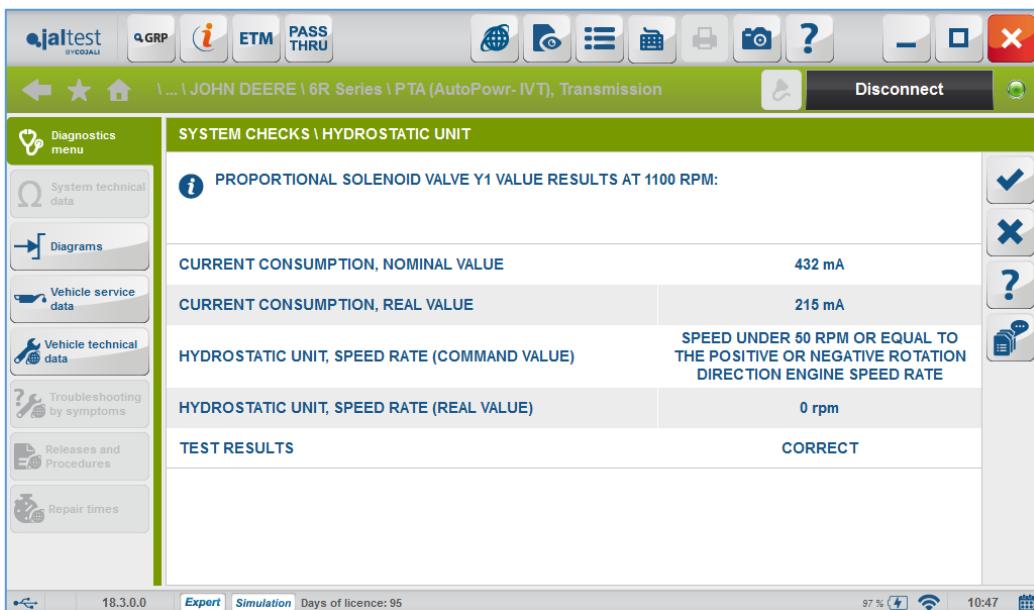


Image 6 PTA, Checking hydrostatic unit

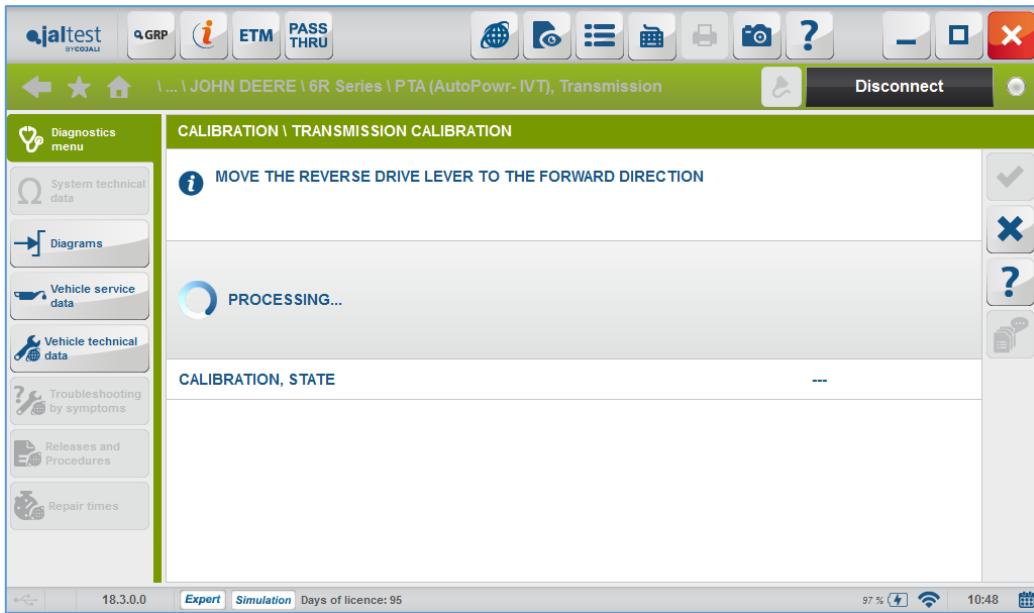


Image 7 PTA, Transmission calibration

- *Available in models:*
 - o 6R Series

- **New parameters** on PTQ Transmissions, PowerQuad (Semi PowerShift)

- *Available in models:*
 - o 7020 Series
 - o 7030 Series
 - o 7R Series

- **New parameters** on PTP Transmission e23 (Full PowerShift)

- *Available in models:*
 - o 8R Series
 - o 7R Series

- **New Vehicle configuration** on John Deere Tractors

- *Available in models:*
 - o 5000 RN Series
 - o 5R Series
 - o 5020 Series

- 6020 Series
 - 6E Series
 - 6J Series
 - 6030 Series
 - 7030 Series
 - 7020 Series
 - BIF, Basic Informator
-
- Front power take-off configuration
 - Language
 - Units setting
-
- UIC, User Interface
-
- Rolling radius
 - Units setting
-
- BCU, Body computer
-
- Front power take-off configuration
 - Soft start-up stage of the front power take-off
 - Front pto modulation
 - Working lights mounted at the front of the tractor
 - Working lights on the rear mudguards
 - Working lights on the front part of the cab roof
 - Working lights on the rear part of the cab roof
 - Working lights on the upper part of the cab pillar
 - Working lights on the lower part of the cab pillar
 - Automatic switch-on of lights
 - Rolling radius
 - Units setting
 - Indicators acoustic warning
-
- DTI, Multifunction Display

- Front power take-off configuration
 - Rotating lights
 - Working lights on the front part of the cab roof
 - Working lights on the rear part of the cab roof
 - Working lights mounted at the front of the tractor
 - Working lights on the upper part of the cab pillar
 - Working lights on the lower part of the cab pillar
 - Working lights on the rear mudguards
- New **wiring diagrams** and system **technical data** in Tractors
- RPT – Rear power take-off
 - SFA – Suspension management system in the front axle
 - FCC – Control unit, front module

3.6. Massey Ferguson

- New **Maintenance system**, models with DCC Instrument Cluster
- Available in models:
 - 4700
 - 5700
 - 6700 Series
- New **wiring diagrams** and system **technical data**
 - MFA – Armrest control
 - Autotronic 5 – TECU, Suspension management system in the front axle
 - DCC3 – Instrument cluster
 - EEM4F – EDC 17 CV41, Electronic Diesel Control, Common Rail

3.7. VALTRA

- New **Parameters** on CVT Transmissions
 - PowerShuttle Module
 - Behaviour of the PowerShuttle module during the transition from stopped to forward gear

- Behaviour of the PowerShuttle module during the transition from stopped to reverse gear
 - Behaviour of the PowerShuttle module during the transition from reverse gear to forward gear
 - Behaviour of the PowerShuttle module during the transition from forward gear to reverse gear
 - Behaviour of the PowerShuttle module during the re-engagement of the forward gear
 - Behaviour of the PowerShuttle module during the re-engagement of the reverse gear
 - Behaviour of the PowerShuttle module during the transition from stopped to forward gear, (automatic mode)
 - Behaviour of the PowerShuttle module during the transition from stopped to reverse gear, (automatic mode)
 - Behaviour of the PowerShuttle module during the transition from stopped to forward gear, (clutch pedal)
 - Behaviour of the PowerShuttle module during the transition from stopped to reverse gear, (clutch pedal)
-
- Clutch Pedal
 - Behaviour of the PowerShuttle module during the transition from stopped to forward gear
 - Behaviour of the PowerShuttle module during the transition from stopped to reverse gear
-
- **New Parameters** on PowerShift Transmissions
 - PowerShuttle Module
 - Behaviour of the PowerShuttle module during the transition from stopped to forward gear
 - Behaviour of the PowerShuttle module during the transition from stopped to reverse gear
 - Behaviour of the PowerShuttle module during the transition from reverse gear to forward gear

- Behaviour of the PowerShuttle module during the transition from forward gear to reverse gear
 - Behaviour of the PowerShuttle module during the re-engagement of the forward gear
 - Behaviour of the PowerShuttle module during the re-engagement of the reverse gear
 - Behaviour of the PowerShuttle module during the transition from stopped to forward gear, (automatic mode)
 - Behaviour of the PowerShuttle module during the transition from stopped to reverse gear, (automatic mode)
 - Behaviour of the PowerShuttle module during the transition from stopped to forward gear, (clutch pedal)
 - Behaviour of the PowerShuttle module during the transition from stopped to reverse gear, (clutch pedal)
-
- Clutch Pedal
 - Behaviour of the PowerShuttle module during the transition from stopped to forward gear
 - Behaviour of the PowerShuttle module during the transition from stopped to reverse gear
-
- PowerShift Module
 - Behaviour of the powershift from gear 1 to gear 2
 - Behaviour of the powershift from gear 2 to gear 3
 - Behaviour of the powershift from gear 3 to gear 4
 - Behaviour of the powershift from gear 4 to gear 5
 - Behaviour of the powershift from gear 5 to gear 4
 - Behaviour of the powershift from gear 4 to gear 3
 - Behaviour of the powershift from gear 3 to gear 2
 - Behaviour of the powershift from gear 2 to gear 1