

Transmission calibration in John Deere: John Deere 3R Series tractor



John Deere is the main brand in the Agricultural Machinery industry in America. With Jaltest, many different actions can be performed that are essential for the tractor maintenance. In this case study, it will be shown how a transmission calibration in a John Deere 3R Series tractor with PTH transmission can be easily performed with our tool.

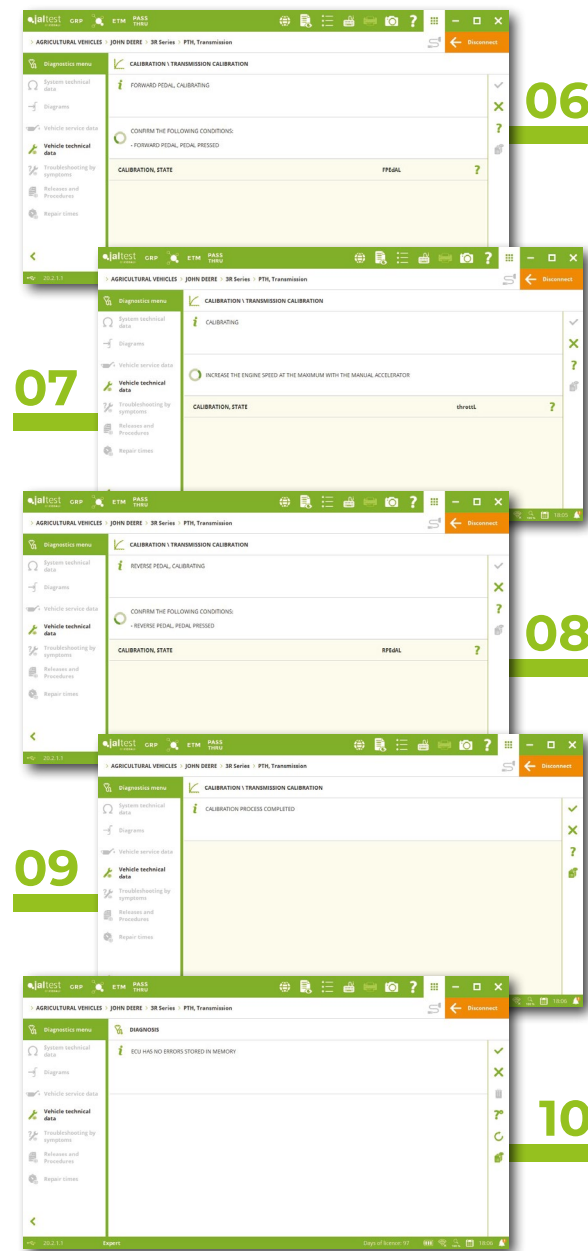
Once it is noticed that the transmission is behaving in an abrupt way, or if a component has been switched recently, you may need to calibrate it. This procedure can be performed in an easy way with Jaltest AGV in a large number of models, including the model 3R.

First of all, you will need to select the ECU of the vehicle (PIC 1). Jaltest helps the user during the connection, showing how to connect the needed cables (PIC 2). If the action to perform is already known, you could use the available direct accesses (PIC 2.1).

When connecting, the main diagnosis menu is accessed (PIC 3.). When doing the diagnosis fault codes can be found that will give you clues that a calibration is needed (PIC 4). The calibration menu needs to be selected and it is easy to calibrate the transmission to solve the problem just by following the described steps in the tool (PIC 5), (PIC 6), (PIC 7), (PIC 8), (PIC 9).

Once the calibration is performed, read the fault codes and find out that those fault codes have been cleared (PIC 10).

You will save time and money with Jaltest!



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01

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GRP

VIN
INFO

OEM
RP1210

> AGRICULTURAL VEHICLES > JOHN DEERE > 3R Series > PTH, Transmission

Connect

Diagnostics menu

System technical data

Diagrams

Vehicle service data

Vehicle technical data

Troubleshooting by symptoms

Releases and Procedures (TSBs)

Component Replacement Guides

Repair times

System selection

System Scan

Frequent Tests

Types

ALL

Aftertreatment

Engine

Instrument cluster

Transmission

Select a system from the list and click on Connect button (Options: 5/5)

Search by system name

☒ Name ☐ Actions

DCU, Exhaust gas treatment system

EDC Yanmar Bosch, Engine Control Module

EDC Yanmar Denso, Engine Control Module

ICC, Instrument cluster

PTH, Transmission

20.3.1.1 (303)

Expert

Days of license: 350

21:17

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OEM RPT210

> AGRICULTURAL VEHICLES > JOHN DEERE > 3R Series > PTH, Transmission

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Read the information to connect to the system

In order to carry out a manual pin selection, [click here](#)

CONNECTION 1 - JDC 217.9

☒ DIRECT CONNECTOR ☐ MULTIPINS

Location

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2.1



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Aftertreatment

Engine

Transmission

Select a special function from the list and click on Connect button (Options: 9/9)

DCU - Temporary cancelation of the engine power reduction

EDC Yanmar Bosch - Injectors coding

EDC Yanmar Bosch - Pressure relief valve reset (PRV)

EDC Yanmar Bosch - Replacement of the Diesel Oxidation Catalyst (DOC)

EDC Yanmar Bosch - Replacement of the Diesel Oxidation Catalyst (DOC) and the Particulate Filter (DPF)

EDC Yanmar Bosch - Replacement of the DPF filter (Diesel Particulate Filter)

EDC Yanmar Bosch - Values restart of the Diesel Particulate Filter (DPF)

PTH - Configuration of the tire size

PTH - Transmission calibration

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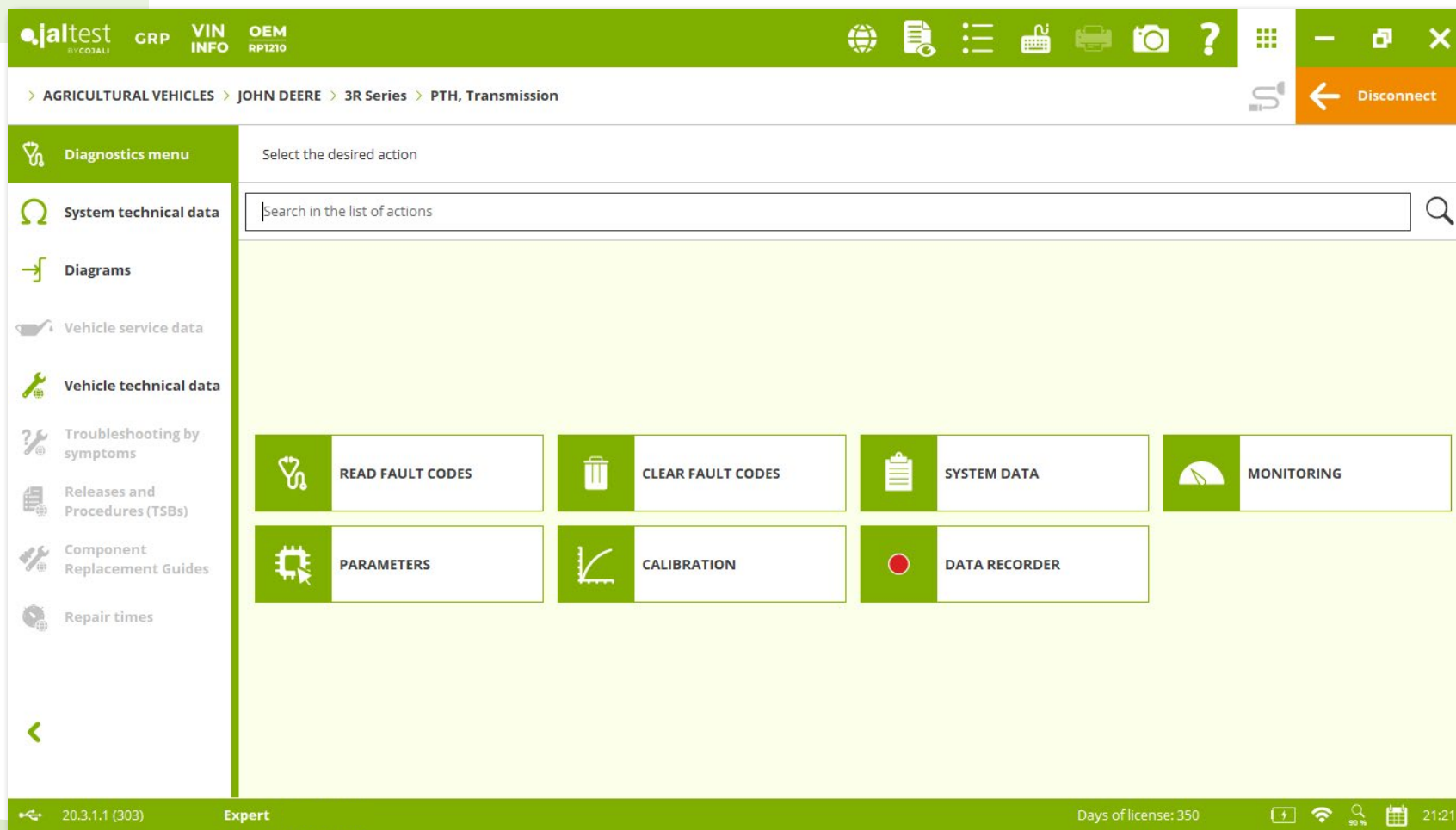


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03



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04

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GRP

VIN
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> AGRICULTURAL VEHICLES > JOHN DEERE > 3R Series > PTH, Transmission

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READ FAULT CODES

FAULT CODE(S) STORED IN MEMORY: 4

	91.3	x1	Potentiometer of manual accelerator. The signal voltage is too high.				
	601.3	x1	Cruise Control "Resume" Switch. Overvoltage or short circuit to +Vbatt.				
	523591.3	x1	Reverse pedal position sensor. Voltage is too high.				
	524254.4	x1	Electronic Control Unit Supply Voltage Input. The supply voltage is too low.				

ACTIVE FAULT

NON-ACTIVE FAULT

OTHER FAULT STATES

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CALIBRATION \ TRANSMISSION CALIBRATION

Add customized help

This test performs the calibration of the vehicle transmission. Its goal is to calibrate the components that have been replaced and solve the malfunctioning caused by the wear of the different system components.

Attention! Read the following instructions carefully in order to avoid possible accidents or injuries.

- Before starting the process, prevent any person from approaching the vehicle operation area, since the components that will be calibrated may move.
- Place the vehicle on a flat surface without obstacles within 5 meters.

Important note:

- It is advisable that there are no active fault codes in the system, except for codes related to the calibration.

✓

✗

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CALIBRATION \ TRANSMISSION CALIBRATION

CALIBRATING

CONTINUE PRESSING THE CORRESPONDING PEDAL

CALIBRATION, STATE

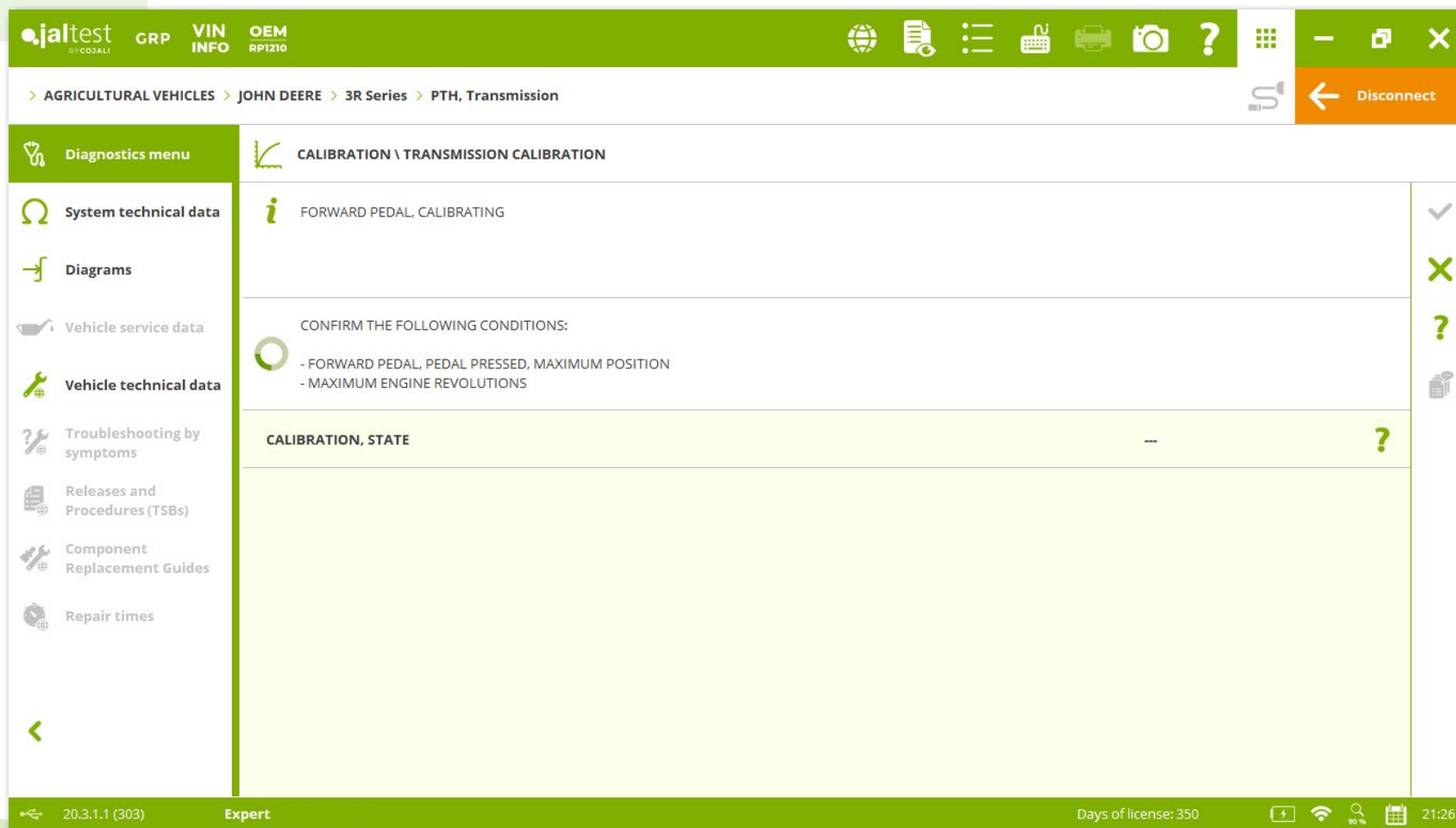
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➤ AGRICULTURAL VEHICLES ➤ JOHN DEERE ➤ 3R Series ➤ PTH, Transmission

 ← Disconnect

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 CALIBRATION \ TRANSMISSION CALIBRATION

 REVERSE PEDAL, CALIBRATING



 CONFIRM THE FOLLOWING CONDITIONS:
- REVERSE PEDAL, PEDAL PRESSED



CALIBRATION, STATE

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20.3.1.1 (303) Expert

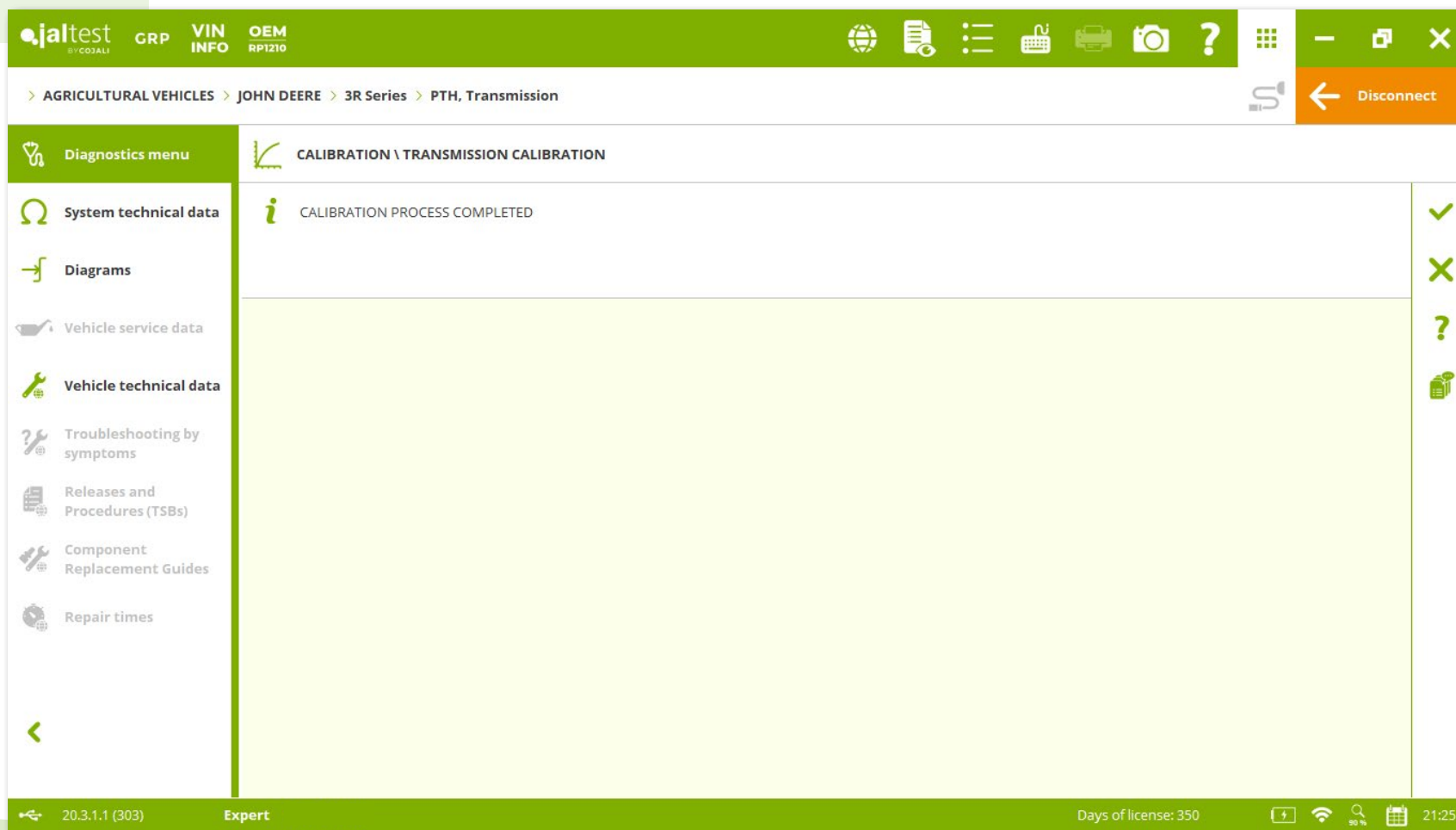
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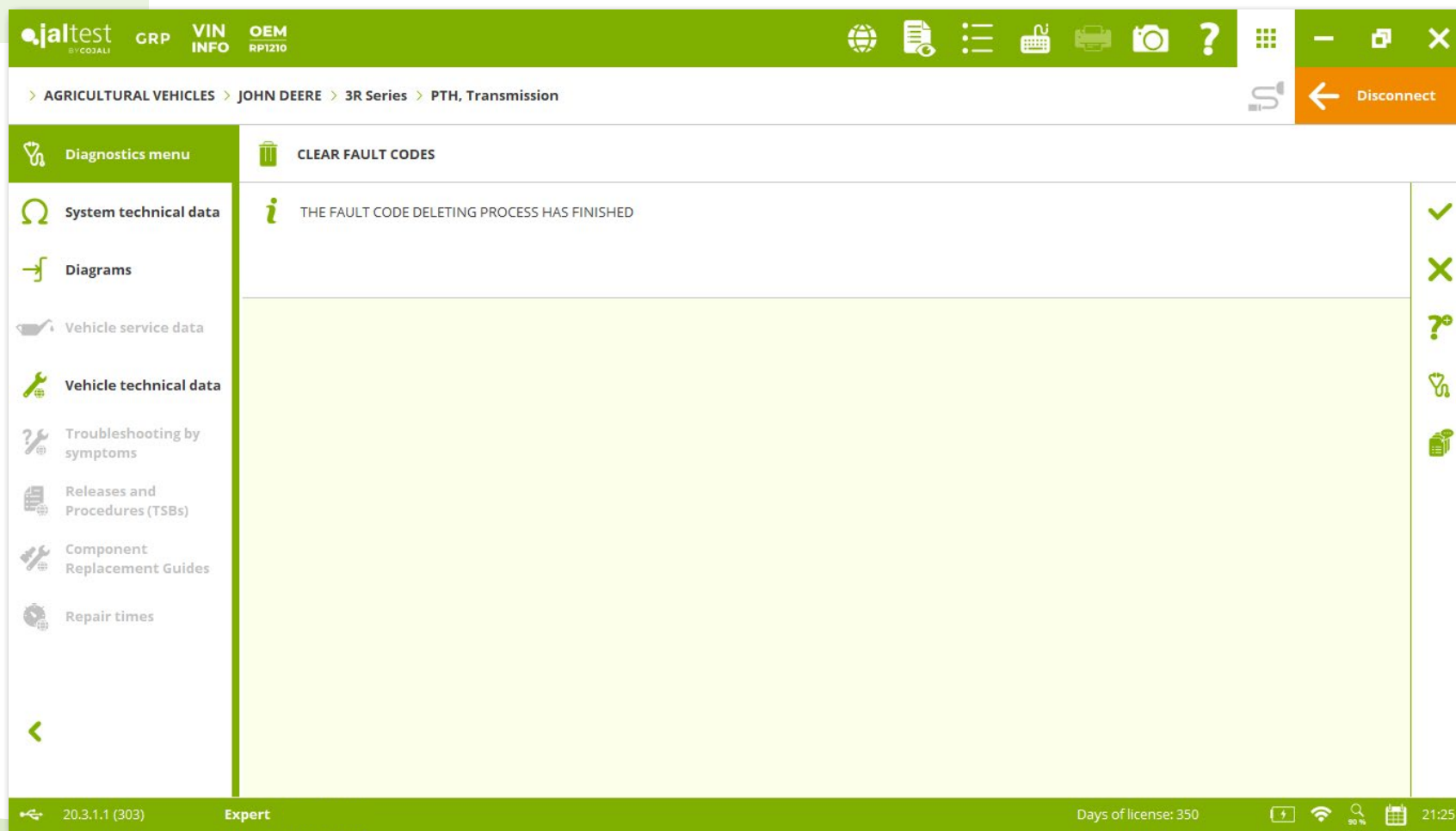
09



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10



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