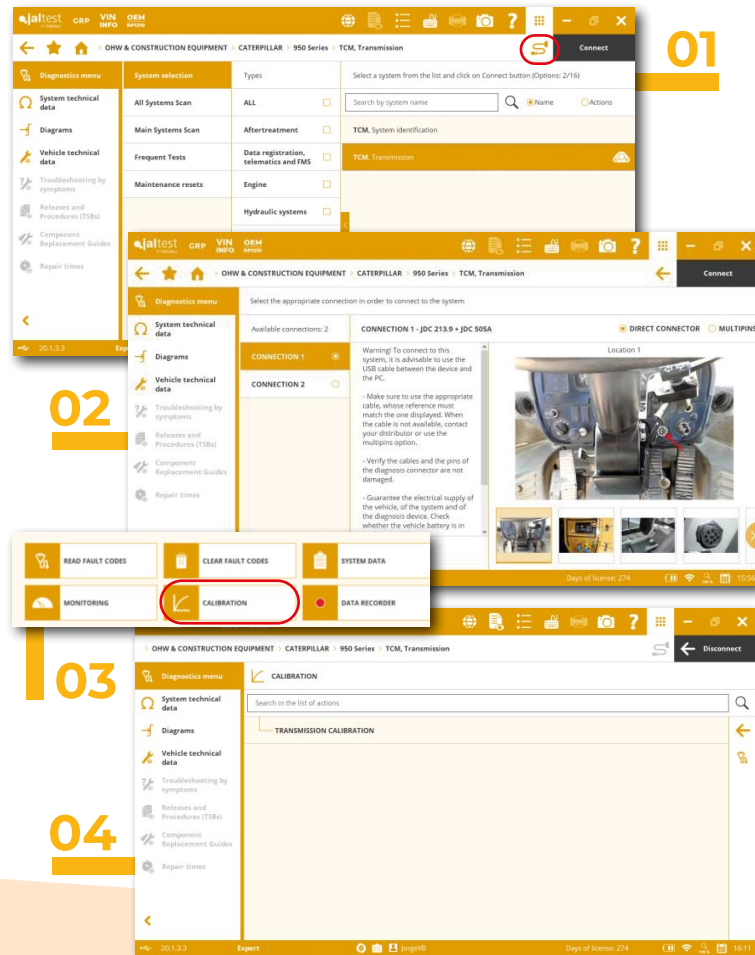


Caterpillar 950 Series Transmission Calibration with Jaltest



One of the most frequent actions working with Wheel Loaders are the transmission calibrations. Jaltest Diagnostics, the all makes, all models and all systems diagnostics tool, allows us to do this calibration under the same software where you can do diagnosis, bidirectional actions or check OEM technical information for each HD Vehicle.

The following Jaltest screenshots show a Caterpillar 950 Wheel Loader transmission calibration though very simple steps.

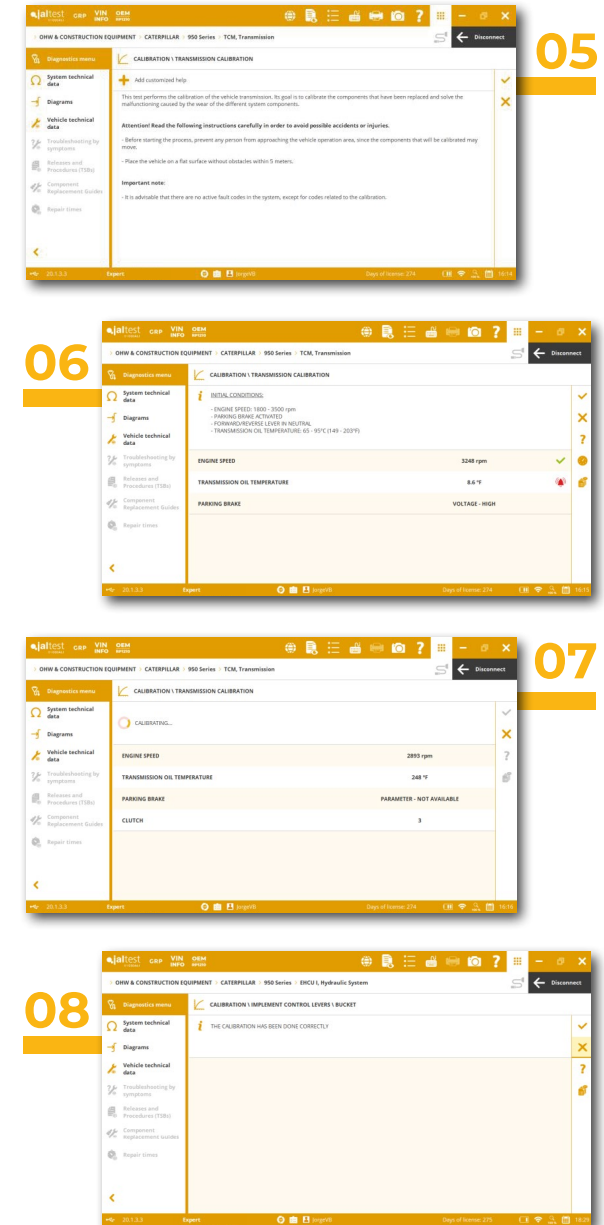
First of all, we have to select the ECU that we want to connect with (pic1). Jaltest helps you with this connection, showing you how to hook up, cables needed and the location within the vehicle (pic 2).

Once we have connected to the Transmission System, we will see the main Jaltest Diagnostics Menu (pic 3). There we can check and clear faults, monitoring live data, doing bidirectional actions, etc. By clicking on Calibration, we will be able to calibrate the transmission (pic 4) in other systems there will appear different actions that Jaltest allows us to take.

Jaltest will guide us during the whole calibration process, asking for expert mode in order to let you know that this action can make changes in the vehicle. Also, Jaltest will show some safety instructions before starting (pic 5) and the initial requirements: parking brake on or the engine speed between 1800 3500 rpm... (pic 6).

This process will calibrate the transmission automatically (pic 7) and Jaltest will let you know when is over (pic 8).

Among many other actions, with Jaltest Diagnostics you will be able to check transmission diagrams through Diagrams with real photos or checking OEM technical information of every single component of each system at System Technical Data.



For more information visit:
cojaliusa.com

click on images to enlarge



01

GRP

VIN
INFO

OEM
RP1210

> OHW & CONSTRUCTION EQUIPMENT > CATERPILLAR > 950 Series > TCM, Transmission

Connect

Diagnostics menu	System selection	Types	Select a system from the list and click on Connect button (Options: 2/16)
System technical data	All Systems Scan	ALL ☐	<div>Search by system name <input type="text"/></div> <div>☒ Name ☐ Actions</div>
Diagrams	Main Systems Scan	Aftertreatment ☐	TCM, System Identification
Vehicle service data	Frequent Tests	Data registration, telematics and FMS ☐	TCM, Transmission
Vehicle technical data	Maintenance resets	Engine ☐	
Troubleshooting by symptoms		Hydraulic systems ☐	
Releases and Procedures (TSBs)		Instrument cluster ☐	
Component Replacement Guides		Transmission ☒	
Repair times			
Reduce size			

20.3.1.1 (303) Expert

Days of license: 346

13:57

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02

jaltest
BY COJALI

GRP

VIN
INFO

OEM
RP1210

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> OHW & CONSTRUCTION EQUIPMENT > CATERPILLAR > 950 Series > TCM, 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

⏪

Select the appropriate connection in order to connect to the system

Available connections: 2

CONNECTION 1

CONNECTION 2

CONNECTION 1 - JDC 213.9 + JDC 505A

⚠️ Warning! To connect to this system, it is advisable to use the USB cable between the device and the PC.

- Make sure to use the appropriate cable, whose reference must match the one displayed. When the cable is not available, contact your distributor or use the multipins option.

- Verify the cables and the pins of the diagnosis connector are not damaged.

- Guarantee the electrical supply of the vehicle, of the system and of the diagnosis device. Check whether the vehicle battery is in perfect conditions.

DIRECT CONNECTOR

MULTIPINS

Location 1





20.3.1.1 (303)

Expert

Days of license: 346

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100 %

13:58

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jaltest
DIAGNOSTICS

OHW OFF-HIGHWAY



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04

The screenshot displays the jaltest diagnostic software interface. The top header bar is orange and contains the jaltest logo, vehicle information (GRP, VIN INFO, OEM RP1210), and various utility icons. Below the header, a breadcrumb trail indicates the current path: > OHW & CONSTRUCTION EQUIPMENT > CATERPILLAR > 950 Series > TCM, Transmission. A 'Disconnect' button is visible in the top right corner. The left sidebar, also orange, lists the 'Diagnostics menu' with options: System technical data, Diagrams, Vehicle service data, Vehicle technical data, Troubleshooting by symptoms, Releases and Procedures (TSBs), Component Replacement Guides, and Repair times. The main content area is titled 'CALIBRATION' and features a search bar labeled 'Search in the list of actions'. Below the search bar, a yellow highlighted section is labeled 'TRANSMISSION CALIBRATION'. The bottom status bar shows the connection ID '20.3.1.1 (303)', the user role 'Expert', the license status 'Days of license: 346', and system icons for battery, Wi-Fi, and search, along with the time '13:59'.

For more information visit:
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GRP
VIN INFO
OEM RP1210

> OHW & CONSTRUCTION EQUIPMENT > CATERPILLAR > 950 Series > TCM, Transmission

Disconnect

Diagnostics menu

System technical data

Diagrams

Vehicle service data

Vehicle technical data

Troubleshooting by symptoms

Releases and Procedures (TSBs)

Component Replacement Guides

Repair times

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.

20.3.1.1 (303)
Expert

Days of license: 346

100 %

14:00

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GRP
VIN INFO
OEM RP1210

> OHW & CONSTRUCTION EQUIPMENT > CATERPILLAR > 950 Series > TCM, Transmission

Disconnect

Diagnostics menu

System technical data

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Troubleshooting by symptoms

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Repair times

CALIBRATION \ TRANSMISSION CALIBRATION

INITIAL CONDITIONS:

- ENGINE SPEED: 1800 - 3500 rpm
- PARKING BRAKE ACTIVATED
- FORWARD/REVERSE LEVER IN NEUTRAL
- TRANSMISSION OIL TEMPERATURE: 65 - 95°C (149 - 203°F)

ENGINE SPEED	676 rpm		
TRANSMISSION OIL TEMPERATURE	222.8 °F		
PARKING BRAKE	VOLTAGE - HIGH		

20.3.1.1 (303)
Expert
Days of license: 346

100 %

14:00

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GRP
VIN INFO
OEM RP1210

Disconnect

> OHW & CONSTRUCTION EQUIPMENT > CATERPILLAR > 950 Series > TCM, Transmission

Diagnostics menu
 System technical data
 Diagrams
 Vehicle service data
 Vehicle technical data
 Troubleshooting by symptoms
 Releases and Procedures (TSBs)
 Component Replacement Guides
 Repair times

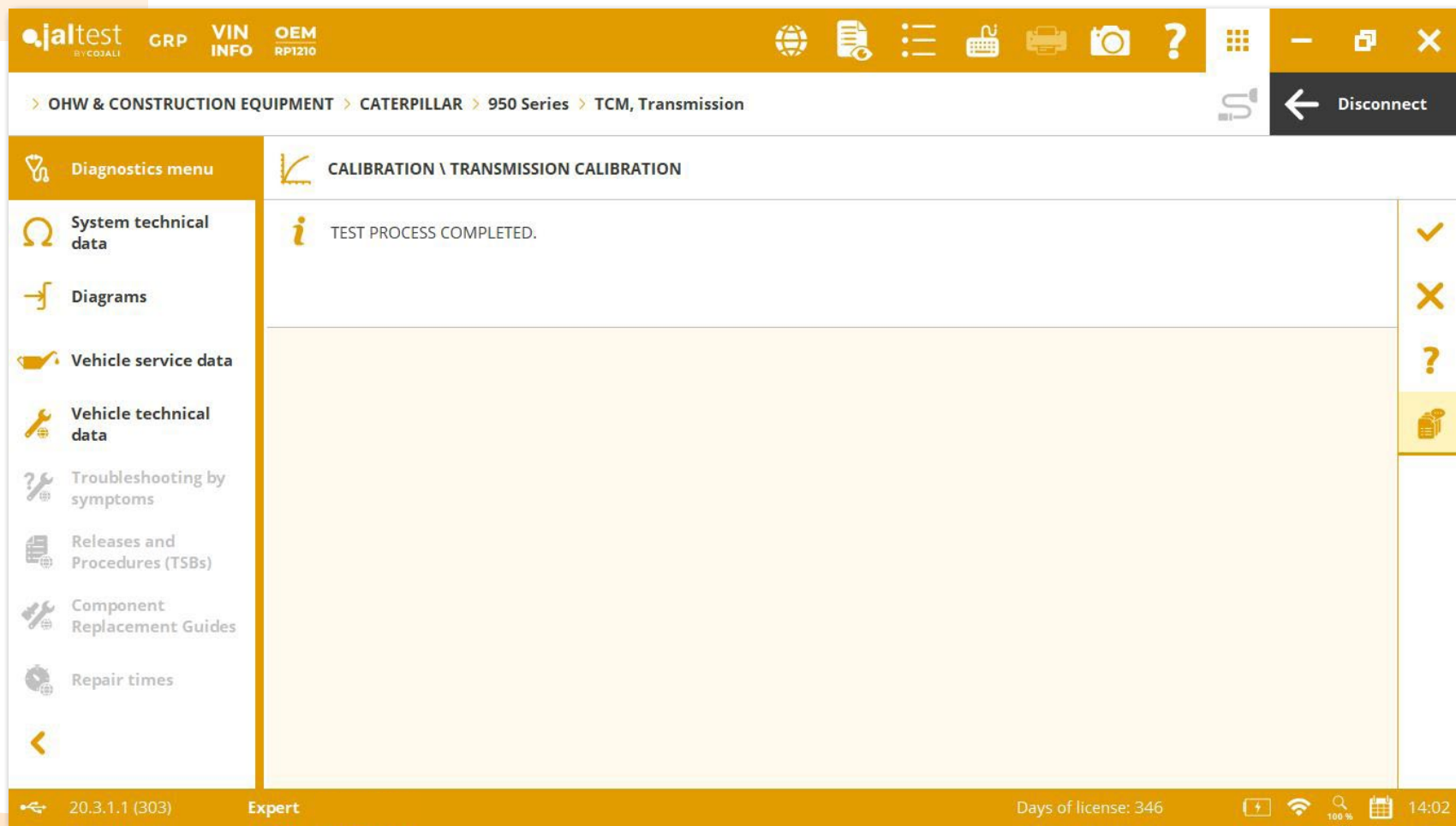
CALIBRATION \ TRANSMISSION CALIBRATION

CALIBRATING...

ENGINE SPEED	303 rpm
TRANSMISSION OIL TEMPERATURE	249.8 °F
PARKING BRAKE	WRONG DATA
CLUTCH	8

20.3.1.1 (303) Expert Days of license: 346 100% 14:01

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