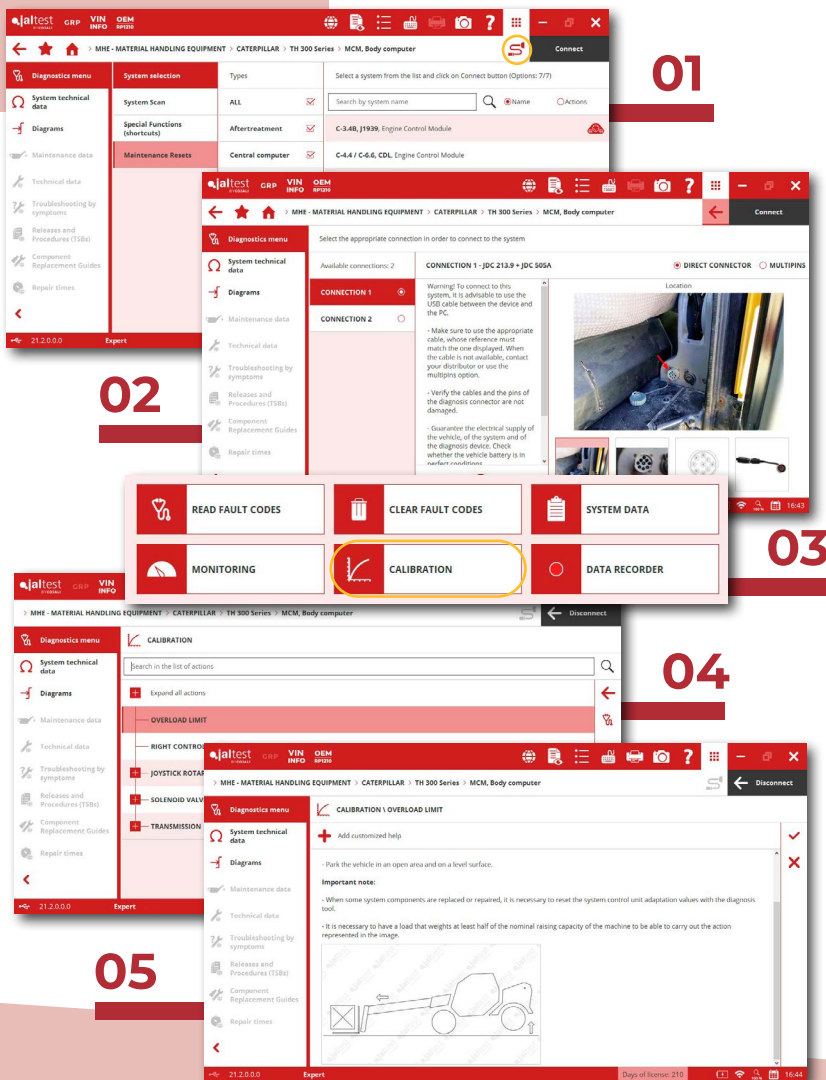


Caterpillar TH 300 Series Overload Limit calibration



Excessive Downtime? Frustrated clients? To many extra costs? And only because you need a Overload Limit calibration? Forget about all of that. Say no to unexpected problems!! With Jaltest, you can solve your problems!!

In the following Screenshots you will find all the direction you need to perform an Overload Limit calibration on a Caterpillar TH 300 Telescopic Handler, step-by-step.

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

Once in the Body computer System, we will see the main Jaltest Diagnostics Menu (pic 3). In this menu we can check and clear faults, monitor live data, run bidirectional controls, etc. By clicking on Calibration, we will be able to calibrate the Overload Limit (pic 4). Each system will have its specific actions, yet the approach will be identical.

Jaltest will guide you during the whole calibration process, asking for expert mode in order to let you know that this action can make changes in the ECM and might need consideration.

Our 3-step process will show (1) safety instructions before starting (pic 5); what the (2) initial requirements are: parking brake on or gear lever position in neutral, etc. (pic 6); and finally, (3) carry out the action.

First, we will have to place the machine in maximum till position (pic 07). After that, Jaltest will ask to place the machine in its initial position (pic 08).

After that, there will be an automatic checking process (pic 09). When the process finishes on its own, the software lets you know (pic 10). With this, you would be all set, a calibration in less than 10 steps.

If you have any questions, reach out to us at customersupport@jaltest.com

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click on images to enlarge

jaltest
DIAGNOSTICS

MHE
MATERIAL
HANDLING



01

 **GRP** **VIN INFO** **OEM RP1210**

   > **MHE - MATERIAL HANDLING EQUIPMENT** > **CATERPILLAR** > **TH 300 Series** > **MCM, Body computer**

 **Connect**

 Diagnostics menu	System selection	Types	Select a system from the list and click on Connect button (Options: 7/7)
 System technical data	System Scan	ALL 	<input type="text" value="Search by system name"/>  ☒ Name ☐ Actions
 Diagrams	Special Functions (shortcuts)	Aftertreatment 	C-3.4B, J1939, Engine Control Module 
 Maintenance data	Maintenance Resets	Central computer 	C-4.4 / C-6.6, CDL, Engine Control Module
 Technical data		Engine 	C-4.4 / C-6.6, J1939, Engine Control Module 
 Troubleshooting by symptoms		Transmission 	ECM, CDL, Engine Control Module
 Releases and Procedures (TSBs)			MCM, Body computer
 Component Replacement Guides			SCR / DEF, Exhaust gas treatment system 
 Repair times			TCM - CAT Generic, Transmission

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Connect

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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.

Location

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Select the desired action

READ FAULT CODES

CLEAR FAULT CODES

SYSTEM DATA

MONITORING

CALIBRATION

DATA RECORDER

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MHE - MATERIAL HANDLING EQUIPMENT
CATERPILLAR
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CALIBRATION

Expand all actions

OVERLOAD LIMIT

RIGHT CONTROL LEVER

JOYSTICK ROTARY SWITCH

SOLENOID VALVES

TRANSMISSION

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←

Disconnect

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CALIBRATION \ OVERLOAD LIMIT

+

Add customized help

- Park the vehicle in an open area and on a level surface.

Important note:

- When some system components are replaced or repaired, it is necessary to reset the system control unit adaptation values with the diagnosis tool.

- It is necessary to have a load that weights at least half of the nominal raising capacity of the machine to be able to carry out the action represented in the image.

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DIAGNOSTICS

MHE MATERIAL HANDLING

> MHE - MATERIAL HANDLING EQUIPMENT > CATERPILLAR > TH 300 Series > MCM, Body computer

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CALIBRATION \ OVERLOAD LIMIT

INITIAL CONDITIONS:

- PARKING BRAKE ACTIVATED
- GEAR LEVER POSITION: NEUTRAL
- PLACE THE TELESCOPIC BOOM IN MAXIMUM LOWERING POSITION AND COMPLETELY RETRACTED
- PLACE THE STABILIZERS IN COMPLETELY RETRACTED POSITION
- WORK TOOL: NOT INSTALLED

IT IS ADVISABLE THAT THERE ARE NO ACTIVE FAULT CODES IN THE SYSTEM, EXCEPT FOR CODES RELATED TO THE ACTION THAT IS GOING TO BE CARRIED OUT

CONTINUE WITH THE PROCESS

PARKING BRAKE	CONNECTED	
GEAR LEVER POSITION	3	
GEAR LEVER (STATE)	UPDATE - INCORRECT	

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CALIBRATION \ OVERLOAD LIMIT

SLOWLY PLACE THE MACHINE IN MAXIMUM TILT POSITION UNTIL THE REAR WHEELS LIFT ABOVE THE GROUND
 SEE ACTION HELP

CONTINUE WITH THE PROCESS

LOAD STABILITY INDICATOR (LONGITUDINAL), SENSOR, DUTY CYCLE	60 %	✓
LOAD STABILITY INDICATOR (LONGITUDINAL), INSTALLATION STATUS	WARNING - LEVEL 3	✗
PARKING BRAKE	VOLTAGE - LOW	?
GEAR LEVER POSITION	16	📄
GEAR LEVER (STATE)	VOLTAGE - HIGH	

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CALIBRATION \ OVERLOAD LIMIT

SLOWLY PLACE THE MACHINE IN ITS INITIAL POSITION

CONTINUE WITH THE PROCESS

LOAD STABILITY INDICATOR (LONGITUDINAL), SENSOR, DUTY CYCLE	28 %	
LOAD STABILITY INDICATOR (LONGITUDINAL), INSTALLATION STATUS	AUXILIARY VALVE 2 - RETRACTION (ALTERNATE)	
PARKING BRAKE	COMPONENT - FAULTY	
GEAR LEVER POSITION	25	
GEAR LEVER (STATE)	FL	

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CALIBRATION \ OVERLOAD LIMIT

CHECKING...

LOAD STABILITY INDICATOR (LONGITUDINAL), SENSOR, DUTY CYCLE	88 %	?
LOAD STABILITY INDICATOR (LONGITUDINAL), INSTALLATION STATUS	RANGE	
PARKING BRAKE	UPDATE - INCORRECT	
GEAR LEVER POSITION	10	
GEAR LEVER (STATE)	UPDATE - INCORRECT	

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  **Disconnect**

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 **CALIBRATION \ OVERLOAD LIMIT**

 CALIBRATION PROCESS COMPLETED









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