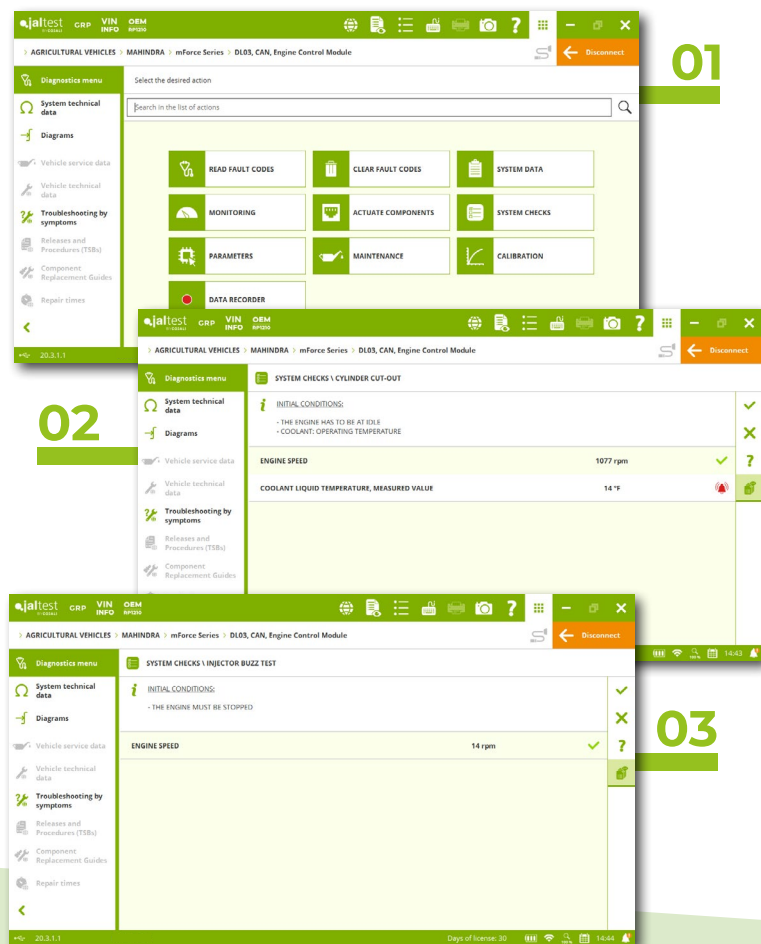


# Injector Coding, Cylinder Cut, Out & Injectors Test in a MAHINDRA



Experiencing an unexpected performance on your AG Vehicle? Maybe a strange noise coming from the engine? It might happen that one of the injectors is not working properly and, unfortunately, this could mean an expensive repair... Jaltest helps you prevent and check your vehicle injectors. Even when you don't have any other choice than changing them, our tool will allow you to codify a new injector and make it work correctly on your engine system.

Let's run a cylinder cut-out test. Follow the example as we work on Mahindra Tractor, mForce Series with a Doosan Engine.

By performing this Cylinder Cut-Out check, we will be able to stop the fuel injection for each of the cylinders. This means that every time we turn off one of the injectors, we should be able to hear a different noise coming from the engine. If we do not feel this difference from the engine noise, it probably means that the injector is not working well.

After you have selected your vehicle and connected to the engine, you will find this action in the System Checks menu [Pic1]. This process can be performed manually (selecting individually each injector and turn it off and on) or automatically (injectors will be tested one by one) [Pic2].

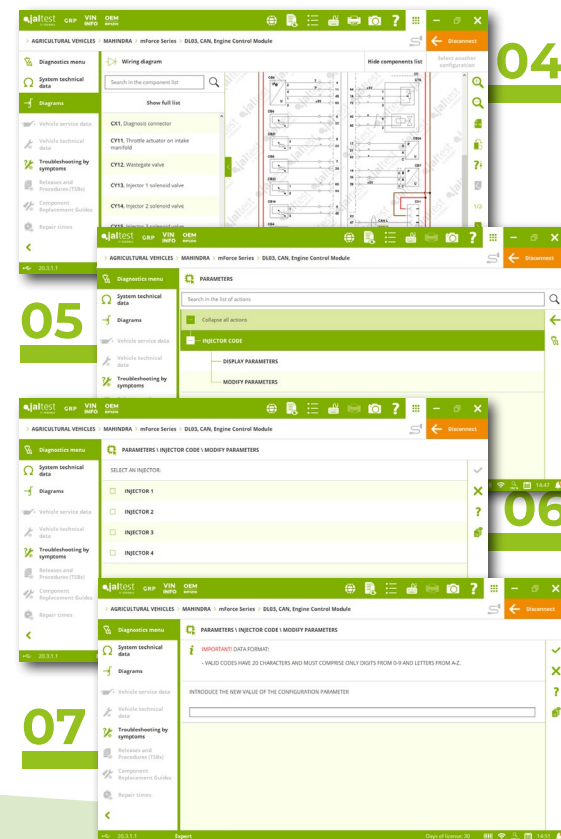
You can also test the injector's buzz. If the injector buzz is working fine, we should be able to hear a clear "tic" sound repeatedly. [Pic3].

In order to change an injector, we need to check the pinout information for the component as well as how it is connected to the ECU (Electronic Control Unit) of the engine. We can find this information on our Wiring Diagrams. [Pic4]

Then, we would need to access our menu

option "Parameters" and click on "Injector Code". Here we will find two important options: The first one is to Display the codes for the current injectors installed on the vehicle, and the second one is to Modify these codes so we can codify the new injector that we are installing for this engine. [Pic5]

We just need to select here the number of the injector we want to replace [Pic5], type in the code of the new injector and click on the check mark [Pic6]. Usually, these codes are engraved on the injector. For you to double check the process was successful, a new screen will pop up showing all the injectors and codes in the vehicle. You are now all set!

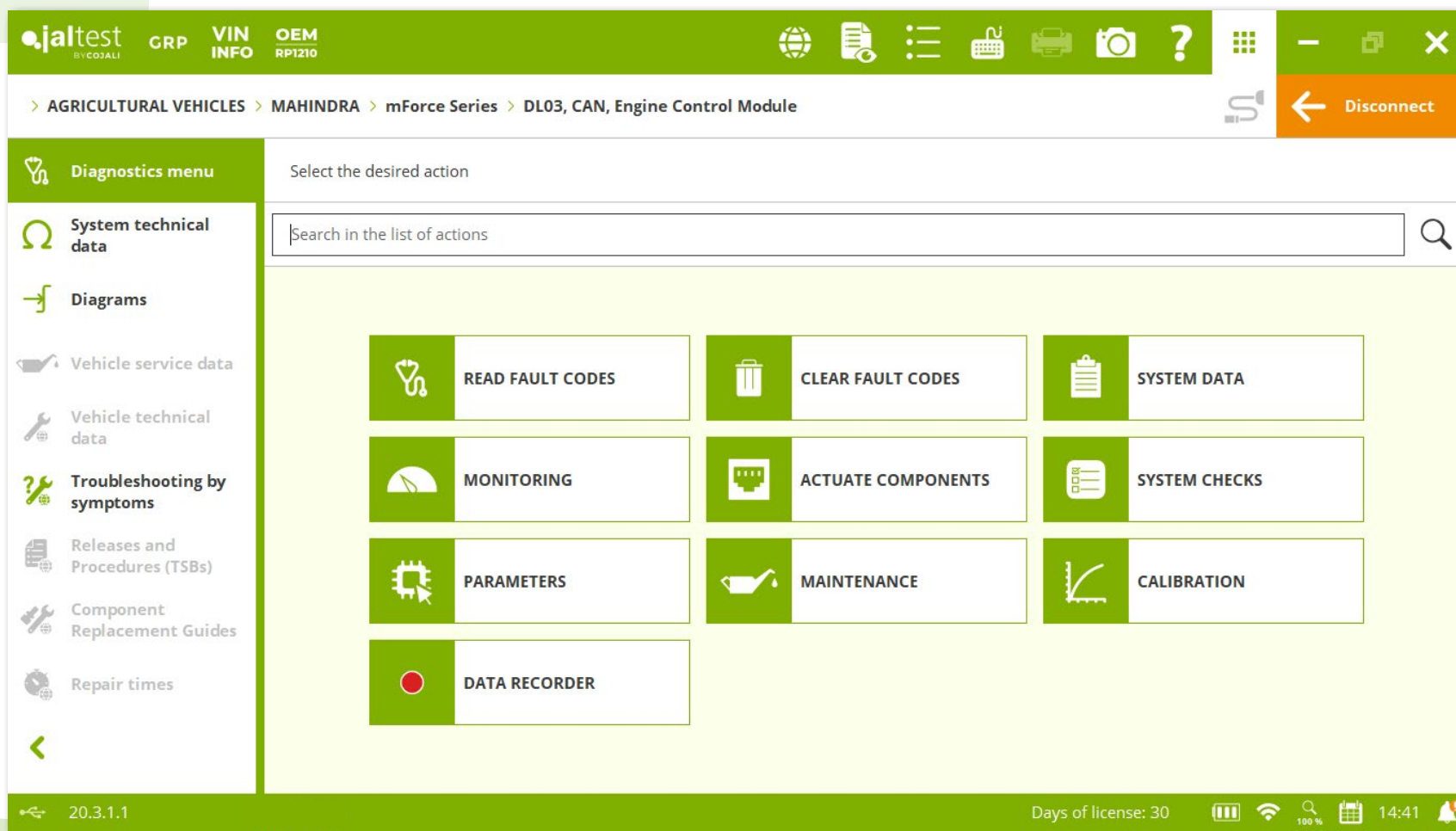


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# 01



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GRP
VIN  
INFO
OEM  
RP1210

> AGRICULTURAL VEHICLES > MAHINDRA > mForce Series > DL03, CAN, Engine Control Module

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 CHECKS \ CYLINDER CUT-OUT

INITIAL CONDITIONS:

- THE ENGINE HAS TO BE AT IDLE
 - COOLANT: OPERATING TEMPERATURE

|                                            |          |   |   |
|--------------------------------------------|----------|---|---|
| ENGINE SPEED                               | 1077 rpm | ✓ | ? |
| COOLANT LIQUID TEMPERATURE, MEASURED VALUE | 14 °F    |   |   |

20.3.1.1
 Days of license: 30
 



14:43

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SYSTEM CHECKS \ INJECTOR BUZZ TEST

INITIAL CONDITIONS:  
- THE ENGINE MUST BE STOPPED

|              |        |   |   |
|--------------|--------|---|---|
| ENGINE SPEED | 14 rpm | ✓ | ? |
|--------------|--------|---|---|

20.3.1.1

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**jaltest** BY COJALI GRP VIN INFO OEM RP1210

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Disconnect

Select another configuration

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**Wiring diagram**

Search in the component list

Show full list

CX1, Diagnosis connector

CY11, Throttle actuator on intake manifold

CY12, Wastegate valve

CY13, Injector 1 solenoid valve

CY14, Injector 2 solenoid valve

CY15, Injector 3 solenoid valve

CY16, Injector 4 solenoid valve

Hide components list

CB6

CB9

CB21

CB8

CB22

CB16

CB4

CV8

CB24

CB7

CX1

KL31

KL30

KL31

KL30

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



 **Disconnect**

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 **PARAMETERS**

 **Collapse all actions**

 **INJECTOR CODE**

 **DISPLAY PARAMETERS**

 **MODIFY PARAMETERS**

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   100 %  14:47 

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GRP

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PARAMETERS \ INJECTOR CODE \ MODIFY PARAMETERS

SELECT AN INJECTOR:

☐ INJECTOR 1

☐ INJECTOR 2

☐ INJECTOR 3

☐ INJECTOR 4









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PARAMETERS \ INJECTOR CODE \ MODIFY PARAMETERS

**IMPORTANT!** DATA FORMAT:  
 - VALID CODES HAVE 20 CHARACTERS AND MUST COMPRISE ONLY DIGITS FROM 0-9 AND LETTERS FROM A-Z.

INTRODUCE THE NEW VALUE OF THE CONFIGURATION PARAMETER

20.3.1.1 Expert
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 100 %
 14:51

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