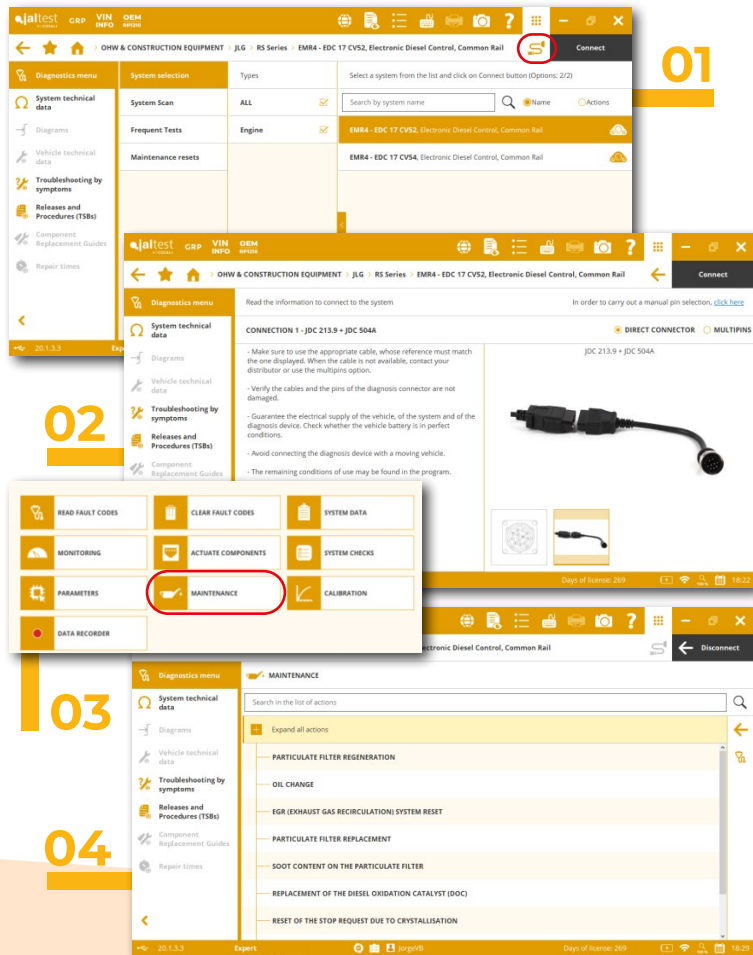


Jaltest Coverage on JLG: DPF Regeneration



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click on images to enlarge

One of the most frequent actions working with JDG elevators are the engine maintenance: like oil changes, resets or DPF regenerations, in order to keep the normal performance of the engine. Jaltest Diagnostics, the all makes, all models and all systems diagnostics tool, allows us to do these maintenances under the same software than diagnosis, bidirectional actions, OEM technical information or troubleshooting repair guides on JLG and 73 more heavy duty makes.

The following Jaltest screenshots show a JLG CV52 RS Series DPF Regeneration though very simple steps.

First of all, you have to select the ECU that you want to connect with (pic1). Jaltest helps you with this connection, showing you how to hook up and the cables needed (pic 2). In this case, you connect to the Deutz engine using a JLG 504A connector.

Once we have connected to the engine, you will see the main Jaltest Diagnostics Menu (pic 3). There you can check and clear faults, monitoring live data, doing system checks, calibrations, etc. By clicking on Maintenance, you will be able to do 10 different actions on this JLG RS (pic 4).

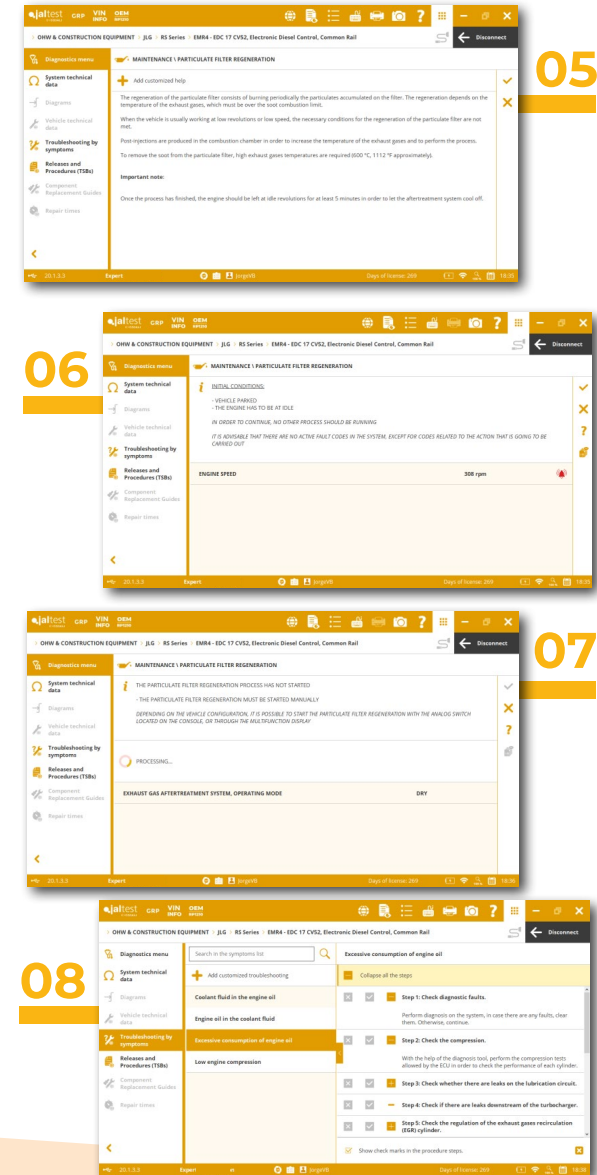
Selecting one option: Particulate Filter Regeneration, Jaltest will guide you during the whole process.

Before starting the regen, it will ask for Expert Mode, letting you know that the following action will make changes in the engine. Also, Jaltest will show you some Safety Instructions (pic 5) and Initial Requirements, like the parking brake on or the engine at idle (pic 6). Once the regen has finished, Jaltest will let you know if any other action is needed.

Among many other helpful features, Jaltest Diagnostic allows you to check engine diagrams through Diagrams Menu with real photos and locations. Also, OEM technical information of every single component of each system at System Technical Data. Jaltest provides repair guides byfault, by symptom (pic 8) and much more.

Update coming for more than 70 makes including JLG!

Jaltest 20.2 available in June will introduce new modelsand a deeper coverage for JLG. Jaltest will save your money and your time!



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01

GRP

VIN
INFO

OEM
RP1210

> OHW & CONSTRUCTION EQUIPMENT > JLG > RS Series > EMR4 - EDC 17 CV52, Electronic Diesel Control, Common Rail

Connect

Diagnostics menu

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System selection

Types

Select a system from the list and click on Connect button (Options: 3/3)

System Scan

ALL

☒

☒ Name

☐ Actions

Frequent Tests

Engine

☒

EMR4 - EDC 17 CV52, Electronic Diesel Control, Common Rail

Maintenance resets

Hydraulic systems

☒

EMR4 - EDC 17 CV54, Electronic Diesel Control, Common Rail

Manual diagnosis

HYDRAULICS, Hydraulic lift

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Select the appropriate connection in order to connect to the system

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

Available connections: 2

CONNECTION 1
☒

CONNECTION 2
☐

CONNECTION 1 - JDC 213.9 + JDC 504A

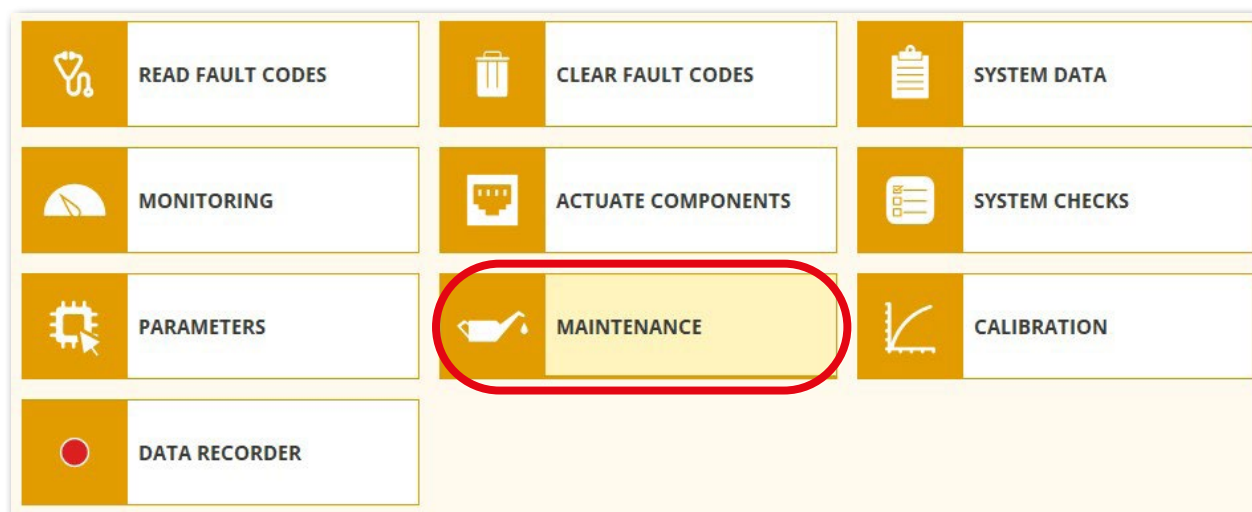
☒ DIRECT CONNECTOR
☐ MULTIPINS

JDC 213.9 + JDC 504A

- 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.
- Avoid connecting the diagnosis device with a moving vehicle.
- The remaining conditions of use may be found in the program.

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🔌

← Disconnect

🔧 Diagnostics menu

🔌 System technical data

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🔧 Vehicle service data

🔧 Vehicle technical data

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🔧 Component Replacement Guides

🕒 Repair times

⬅

🔧 MAINTENANCE

🔍

Search in the list of actions

🔍

⊕ Expand all actions

— PARTICULATE FILTER REGENERATION

— OIL CHANGE

— EGR (EXHAUST GAS RECIRCULATION) SYSTEM RESET

— PARTICULATE FILTER REPLACEMENT

— SOOT CONTENT ON THE PARTICULATE FILTER

— REPLACEMENT OF THE DIESEL OXIDATION CATALYST (DOC)

— RESET OF THE STOP REQUEST DUE TO CRYSTALLISATION

←

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🔍 100 %

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MAINTENANCE \ PARTICULATE FILTER REGENERATION

Add customized help

The regeneration of the particulate filter consists of burning periodically the particulates accumulated on the filter. The regeneration depends on the temperature of the exhaust gases, which must be over the soot combustion limit.

When the vehicle is usually working at low revolutions or low speed, the necessary conditions for the regeneration of the particulate filter are not met.

Post-injections are produced in the combustion chamber in order to increase the temperature of the exhaust gases and to perform the process.

To remove the soot from the particulate filter, high exhaust gases temperatures are required (600 °C, 1112 °F approximately).

Important note:

Once the process has finished, the engine should be left at idle revolutions for at least 5 minutes in order to let the aftertreatment system cool off.

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The screenshot displays the JALtest diagnostic software interface. The top navigation bar includes the JALtest logo, vehicle identification (GRP, VIN INFO, OEM RP1210), and various tool icons. The breadcrumb trail indicates the path: OHW & CONSTRUCTION EQUIPMENT > JLG > RS Series > EMR4 - EDC 17 CV52, Electronic Diesel Control, Common Rail. A 'Disconnect' button is visible in the top right corner.

The left sidebar contains a '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 'MAINTENANCE \ PARTICULATE FILTER REGENERATION'. It includes an information icon and the following text:

INITIAL CONDITIONS:

- VEHICLE PARKED
- THE ENGINE HAS TO BE AT IDLE

IN ORDER TO CONTINUE, NO OTHER PROCESS SHOULD BE RUNNING

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

A table displays the current engine speed:

ENGINE SPEED	1907 rpm

The bottom status bar shows the software version (20.3.1.1 (303)), user level (Expert), license duration (Days of license: 346), and system status (battery, Wi-Fi, 100% zoom, 15:22).

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MAINTENANCE \ PARTICULATE FILTER REGENERATION

THE PARTICULATE FILTER REGENERATION PROCESS HAS NOT STARTED
- THE PARTICULATE FILTER REGENERATION MUST BE STARTED MANUALLY

DEPENDING ON THE VEHICLE CONFIGURATION, IT IS POSSIBLE TO START THE PARTICULATE FILTER REGENERATION WITH THE ANALOG SWITCH LOCATED ON THE CONSOLE, OR THROUGH THE MULTIFUNCTION DISPLAY

PROCESSING...

EXHAUST GAS AFTERTREATMENT SYSTEM, OPERATING MODE
UNEXPECTED ANSWER FROM CONTROL UNIT

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100 %
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OEM RP1210

OHV & CONSTRUCTION EQUIPMENT

JLG

RS Series

EMR4 - EDC 17 CV52, Electronic Diesel Control, Common Rail

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Search in the symptoms list

+

 Add customized troubleshooting

Coolant fluid in the engine oil

Engine oil in the coolant fluid

Excessive consumption of engine oil

Excessive fuel consumption of the engine

Loss of engine power

Low engine compression

Malfunction of the exhaust gas recirculation system (EGR)

The engine does not start

Excessive consumption of engine oil

-

 Collapse all the steps

-

 Step 1: Check diagnostic faults.

Perform diagnosis on the system, in case there are any faults, clear them. Otherwise, continue.

-

 Step 2: Check the compression.

With the help of the diagnosis tool, perform the compression tests allowed by the ECU in order to check the performance of each cylinder.

+

 Step 3: Check whether there are leaks on the lubrication circuit.

-

 Step 4: Check if there are leaks downstream of the turbocharger.

+

 Step 5: Check the regulation of the exhaust gases recirculation (EGR) cylinder.

☐ Show check marks in the procedure steps.

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15:26

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