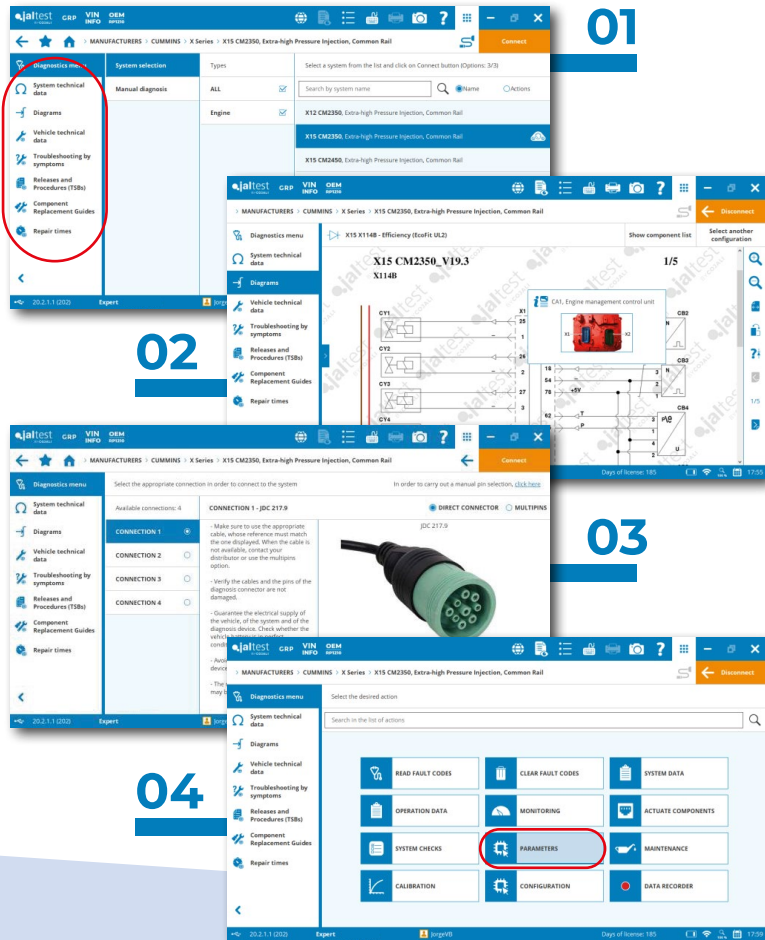


Jaltest Coverage on Cummins X15: Parameter ECU Copy



Jaltest Diagnostics goes further than any other Aftermarket Solution. A proof of that are the multiple advance functions that Jaltest performs. ECU Copies are an example of that. Jaltest can save a copy of your current Engine ECU and then, after replacing it for a new one, you can write that information to the new ECU. This type of actions are very useful and can save you a lot of time and money.

The following Jaltest screenshots show a guided ECU Copy through very simple steps in a Cummins X15.

In order to access directly to this specific engine, we would click on Manufacturers, select Cummins and then choose Cummins X Series (X15). There, and before connecting, Jaltest provides a lot of technical information through the menu that is on the left side. For example, wiring Diagrams (pic 2), Technical Data of each component, Troubleshooting or Repair Times. Moreover, Jaltest helps you with the connection, showing you how to hook up, the cables needed or if there are more possible ways (pic 3).

Once we have connected to the Central Computer of the engine, you will see the main Jaltest Diagnostics Menu (pic 4). There, you will be able to perform an advance diagnostics with related information of each component, troubleshooting by faults and also bidirectional tests like System C checks, Calibrations, Maintenances, Configurations, etc.

Selecting the option: Parameters (pic 5), Jaltest will guide you during the whole process of Copying the ECU (both from the old ECU to Jaltest and from Jaltest to the new ECU):

1. Explanation of what is an ECU Copy. (pic 6).
2. Initial conditions required before performing the action.(pic 7).
3. The execution: an automatic ECU copy followed by an emerging window to save the file (pic 8). We will use this file later to write on the new ECU the previous information. After saving the file, we would have concluded the ECU Copy in Jaltest.

If we want to perform the opposite process (Copy

from Jaltest to ECU), we have to be sure about the compatibility between the two ECU.

After selecting the file and copying in the new ECU, Jaltest will ask for turning the ignition key in lock position for 70 secs, that you can time in Jaltest itself (pic 9) and then to turn it on and press valid in order to conclude the whole proces

Now copying ECU data is easier than ever before.

Jaltest will save your money and your time!



For more information visit:
cojaliusa.com

click on images to enlarge



01

GRP

VIN
INFO

OEM
RP1210

MANUFACTURERS > CUMMINS > X Series > X15 CM2350, Extra-high Pressure Injection, Common Rail

Connect

Diagnostics menu

System technical data

Diagrams

Vehicle technical data

Troubleshooting by symptoms

Releases and Procedures (TSBs)

Component Replacement Guides

Repair times

System selection

Manual diagnosis

Types

ALL

Engine

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

Search by system name

☒ Name ☐ Actions

X12 CM2350, Extra-high Pressure Injection, Common Rail

X15 CM2350, Extra-high Pressure Injection, Common Rail

X15 CM2450, Extra-high Pressure Injection, Common Rail

20.3.1.1 (303) Expert

Days of license: 350

100 % 02:10

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02

ialtest BY COJALI GRP VIN INFO OEM RP1210

MANUFACTURERS > CUMMINS > X Series > X15 CM2350, Extra-high Pressure Injection, Common Rail

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

X15 X114B - Efficiency (EcoFit UL2)

Show component list
Select another configuration

X15 CM2350_V19.3
X114B

1/5

CA1, Engine management control unit

X1 X2

54 -
78 +5V
62 T
45 P

25
1
26
2
27
3
49
73
50

CB2
CB3
CB4

P/U
U

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GRP

VIN INFO

OEM RP1210

> MANUFACTURERS > CUMMINS > X Series > X15 CM2350, Extra-high Pressure Injection, Common Rail

Connect

Diagnostics menu

Select the appropriate connection in order to connect to the system

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

System technical data

Diagrams

Vehicle technical data

Troubleshooting by symptoms

Releases and Procedures (TSBs)

Component Replacement Guides

Repair times

Available connections: 4

CONNECTION 1

☒

CONNECTION 2

☐

CONNECTION 3

☐

CONNECTION 4

☐

CONNECTION 1 - JDC 217.9

- 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.

DIRECT CONNECTOR

MULTIPINS

Pin-out

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DIAGNOSTICS

COMMERCIAL

GRP
VIN INFO
OEM RP1210

MANUFACTURERS > CUMMINS > X Series > X15 CM2350, Extra-high Pressure Injection, Common Rail

Disconnect

Diagnostics menu
Select the desired action

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

Search in the list of actions

READ FAULT CODES

CLEAR FAULT CODES

SYSTEM DATA

OPERATION DATA

MONITORING

ACTUATE COMPONENTS

SYSTEM CHECKS

PARAMETERS

MAINTENANCE

CALIBRATION

CONFIGURATION

DATA RECORDER

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Expert
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100 %
02:22

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The screenshot displays the JALTEST diagnostic software interface. The top navigation bar includes the JALTEST logo, vehicle identification fields (GRP, VIN INFO, OEM RP1210), and various tool icons. The breadcrumb trail indicates the path: MANUFACTURERS > CUMMINS > X Series > X15 CM2350, Extra-high Pressure Injection, Common Rail. A 'Disconnect' button is visible in the top right corner.

The left sidebar contains a 'Diagnostics menu' with the following options: System technical data, Diagrams, Vehicle technical data, Troubleshooting by symptoms, Releases and Procedures (TSBs), Component Replacement Guides, and Repair times.

The main area is titled 'PARAMETERS' and features a search bar. Below the search bar, there is a list of actions: 'Expand all actions', 'CALIBRATION REVISION', 'VGT ACTUATOR UPDATING', 'ECU MEMORY' (which is currently selected and highlighted in blue), 'COPY TO JALTEST', 'COPY TO ECU', 'DISPLAY PARAMETERS', and 'ECU INFORMATION'.

The bottom status bar shows the software version '20.3.1.1 (303)', the user role 'Expert', the license status 'Days of license: 350', and system icons for battery, Wi-Fi, and a calendar showing the time '02:23'.

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GRP VIN INFO OEM RP1210

MANUFACTURERS > CUMMINS > X Series > X15 CM2350, Extra-high Pressure Injection, Common Rail

Disconnect

Diagnostics menu

System technical data

Diagrams

Vehicle technical data

Troubleshooting by symptoms

Releases and Procedures (TSBs)

Component Replacement Guides

Repair times

PARAMETERS \ ECU MEMORY \ COPY TO JALTEST

Add customized help

If, for any reason, the control unit has to be replaced, with this function configuration and parameters can be copied from the old control unit to the diagnosis tool.

In addition, this function is useful if you wish to make a copy of the parameters and transfer them later to the same control unit.

Important note

When replacing the ECU, please take into account:

- Before replacing the ECU, copy to Jaltest its parameters.
- These parameters must be copied to the new ECU with Jaltest.

It is highly recommended that the target control unit where this parameter set will be copied is equivalent and completely compatible, since some functions may be limited. Otherwise, a system malfunction may occur and diagnosis faults may appear.

20.3.1.1 (303) Expert Days of license: 350 100 % 02:24

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GRP
VIN INFO
OEM RP1210

MANUFACTURERS > CUMMINS > X Series > X15 CM2350, Extra-high Pressure Injection, Common Rail

Disconnect

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Repair times

PARAMETERS \ ECU MEMORY \ COPY TO JALTEST

THE CONTROL UNIT PARAMETERS WILL BE COPIED INTO THE DIAGNOSIS TOOL.

INITIAL CONDITIONS:

- ENGINE STOPPED

ATTENTION! IT IS HIGHLY RECOMMENDED THAT THE TARGET CONTROL UNIT, WHERE THIS PARAMETERS DATASET WILL BE COPIED, IS EQUIVALENT AND COMPLETELY COMPATIBLE SINCE SOME FUNCTIONS MAY BE LIMITED. OTHERWISE, A SYSTEM MALFUNCTION MAY OCCUR AND DIAGNOSIS FAULTS MAY APPEAR.

ENGINE SPEED	1788 rpm	
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Expert
Days of license: 350

100 %

02:24

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GRP
VIN
INFO
OEM
RP1210

MANUFACTURERS > CUMMINS > X Series > X15 CM2350, Extra-high Pressure Injection, Common Rail

Disconnect

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

PARAMETERS \ ECU MEMORY \ COPY TO ECU

MODIFICATION SUCCESSFULLY DONE
TURN THE IGNITION KEY UNTIL IT IS SET TO THE "LOCK" POSITION AND KEEP IT FOR MORE THAN 70 SECONDS. NEXT, SET THE KEY TO THE "ON" POSITION AND PRESS VALID
AFTER COMPLETING THIS ACTION, IT IS ADVISABLE TO READ THE FAULT MEMORY AGAIN

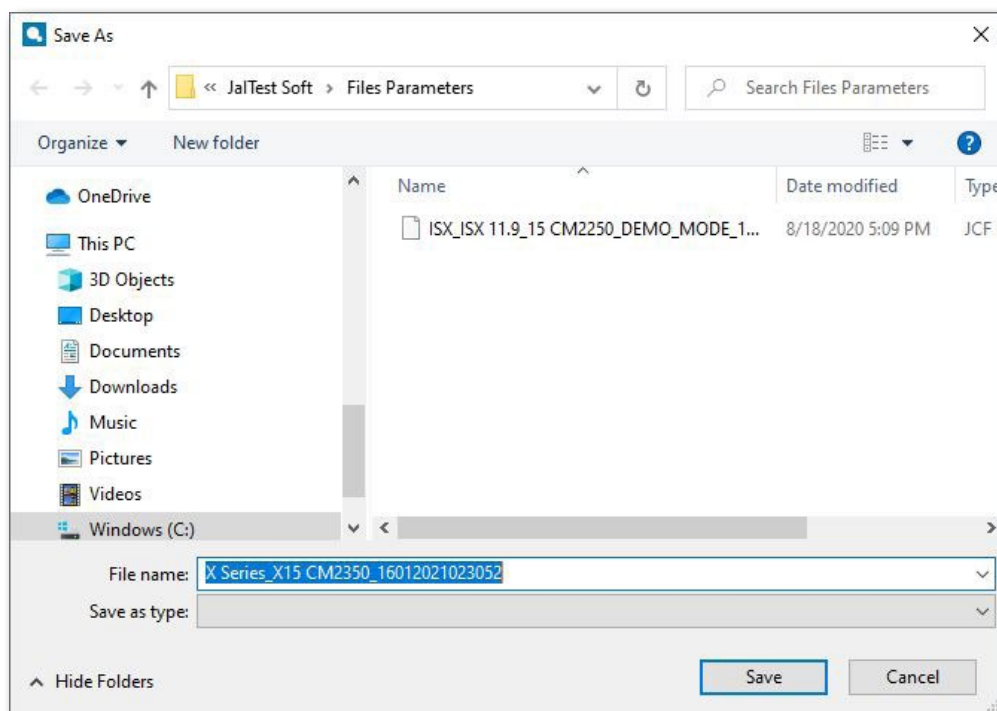
01:10
RESET START

20.3.1.1 (303)
Expert
Days of license: 350
100 %
02:26

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09



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