



MULTIBRAND DIAGNOSTICS

Installation
Guide



Jaltest.com



Installation Guide



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1 General information

1.1 INFORMATION ON THE PRODUCT

Jaltest is provided along with a user's guide. However, COJALI S.L. offers the user a wide range of training in electronic systems for commercial vehicles. That way, the user has the chance to subscribe the training he considers necessary.

For manufacturing faults, Jaltest has a one-year warranty from its manufacturing date onwards. The manufacturing fault must be acknowledged by Cojali's technical support team. This warranty is an obligation for Cojali to efficiently restore or replace the product, or to restore the faulty items for free.

Cojali ensures the quality and efficiency of this product, which has been tested by the quality department and the commercial organization.

Cojali, or a service authorized by it, will carry out all the repairing works related to the warranties.

Jaltest® and Cojali® are registered trademarks around the world.

1.2 DEVICE SYMBOLS

SYMBOL	DESCRIPTION
	· Caution! Refer to the explanation in this Manual
	· Direct Current (DC)
	· Complies with European Directives
	· Complies with USA Federal Communications Commission (FCC)
	· Complies with CANADA Innovation, Science and Economic Development (ISED)
	· Complies with Restriction of Hazardous Substances Directives
	· Do not dispose of this product as unsorted municipal waste. Contact a qualified recycler

1.3 SAFETY INFORMATION AND RECOMMENDATIONS

Serious injury or damage may occur if unqualified persons attempt to work with the diagnosis tool or if the safety warnings are not followed.



- . If the power cord of the diagnosis tool is damaged, it must not be used until a qualified specialist performs the necessary checkings and repairing works.



- . The power cord must not be placed on tables, workbenches or lockers. Do not place near heat sources or rotating parts.



- . The Jaltest tool must not be operated near open fuel containers or any other open containers with flammable substances, due to risk of explosion or fire.



- . Make sure there is adequate ventilation when working on vehicles with the engine running in order to avoid the risk of poisoning by carbon monoxide.



- . Use the Jaltest diagnosis tool only as described in the operating manual. Use only the accessories which are recommended by the manufacturer.



- . If the Jaltest unit is opened without authorization or if improper repairing works are carried out, you could cause a situation of serious risk.



- . In order to reduce the risk of overloading on the unit, do not use it in wet surfaces and do not expose it to rain. The fluctuations and deviations of the main tension which are above the allowed tolerance may cause electronic failures.



- . When working directly on the vehicle, place it properly. Use the appropriate safety tools in order to avoid the risk of entrapment, severe bruising or even death.



- . This equipment is not suitable for use in locations where children are likely to be present.

1.4 INFORMATION ABOUT REGULATIONS

Jaltest Link has been tested to comply to the appropriate EU, FCC and IC directives.

1.4.1 CE DECLARATION OF CONFORMITY

Jaltest Link fully complies with the essential requirements of the following EU directives:

- RED 2014/53/EU
- RoHS 2011/65/EC

The actual version of EU Declaration of Conformity can be downloaded from customer service area of Jaltest website.

1.4.2 FCC/ISED COMPLIANCE

Jaltest Link has been tested to fulfil the FCC and IC requirements.

The regulatory notices about FCC/ISED can be downloaded from customer service area of Jaltest website.

2 General overview

2.1 INTRODUCTION

Jaltest is a multibrand and multisystem diagnosis tool intended for the systems with electronic control in commercial vehicles. Jaltest allows the display of the data received from the control units of the vehicle.

Jaltest is able to display graphics and technical information which makes it easier and faster for the user to understand the obtained data. Jaltest can be easily updated in any moment.

The connection between the PC and the diagnosis interface can be carried out through USB or Bluetooth connection.

2.2 GENERAL RULES OF USE

Read carefully the instructions on this guide for the use of the Jaltest unit. Do not allow unauthorized personnel to use your Jaltest unit; that way, you will avoid any accidents or damages in the components.

For a proper use of the Jaltest unit, please follow these recommendations:

- Always store the Jaltest unit and all its components inside the suitcase that composes the Jaltest DIAGNOSIS KIT.
- Keep the Jaltest unit and all its components away from water and/or other liquids. This could cause irreversible damage on the unit.
- Store the Jaltest unit and all its components in a dry place and away from heat sources or sunlight.
- Do not hit the Jaltest Link communications interface.

2.3 EQUIPMENT

Your Jaltest unit is provided with all the elements indicated in the packing list.

The customer service staff will inform you about auxiliary elements.

2.4 REQUIREMENTS

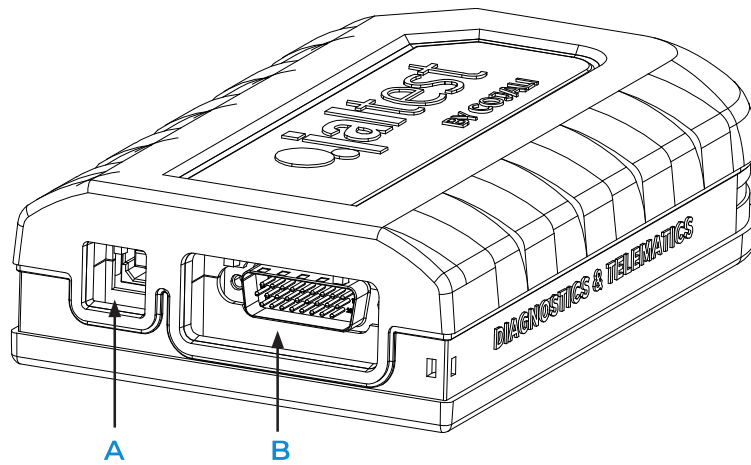
- Software installation requirements:
 - It is mandatory to have the Jaltest Link device
 - Jaltest can be installed only with the license in force
 - It is recommended to activate the Internet connection of the PC
- Operating System:
 - Compatible with: Windows 10 / Windows 11 (32 and 64 bit support)
- Minimum PC requirements:
 - CPU: Intel(R) Core (TM) i5-6300U CPU @ 2.40GHz 2.50 GHz or similar
 - RAM: 8 GB
 - Available Hard Disk space of a minimum of: 40 GB (NTFS file system is required)
 - Microsoft Office 2016 or higher
 - Hard disk type: SSD
 - Screen minimum resolution: 1366x768
 - USB communication port: 2.0 or higher. USB Type-C compatible
 - Bluetooth connectivity
 - Internet connection if the project so requires

In case of incompatibility with the anti-virus software installed in your PC, please, use the exclusion methods offered by those applications.

2.5 JALTEST LINK

2.5.1 GENERAL DESCRIPTION

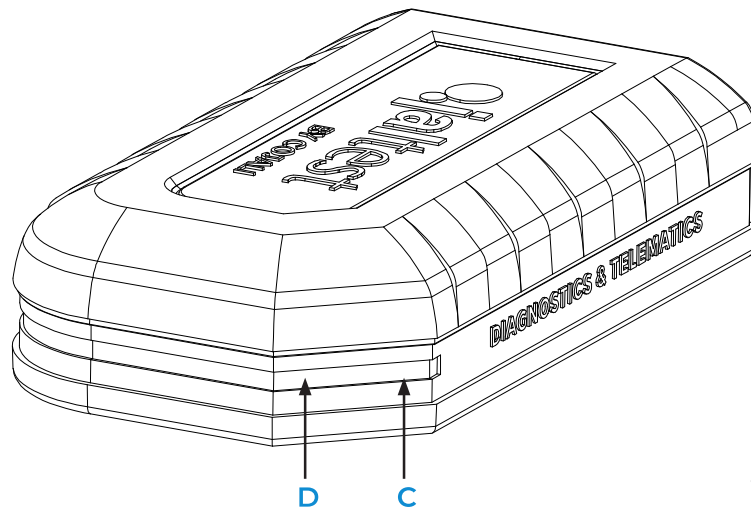
Front view of the diagnosis interface.



A, USB connection

B, SUB-D26 diagnostic connection

Rear view of the diagnosis interface.



C, LED 1

D, LED 2

2.5.2 LEDS FUNCTIONS

Communication states

	LED 1	LED 2
Rest (Only USB connection)	Blinking x1 s	OFF
Rest (External power supply)	ON	OFF
Working mode	ON	Blinking x10 s
Hardware error ¹	Blinking x1 s	Blinking x1 s
Loading firmware	Blinking x10 s	Blinking x10 s

1) LEDs are blinking alternately.

2.6 BLUETOOTH

Bluetooth has become a short-range wireless protocol very common for the data transmission between different devices.

Jaltest is equipped with a Bluetooth antenna that can be used rather than using a USB cable.

However, the use of Bluetooth or other wireless devices is NOT recommended for diagnosis purposes in vehicle.

2.6.1 IMPORTANT INFORMATION ON BLUETOOTH

The frequency range of the Bluetooth technology is very common, therefore, the overlapping of frequencies may cause interferences based on the environmental conditions, such as for instance, in WLAN connections (WLAN: Wireless Local Area Network), cell phones, alarm installations...



Bluetooth technology may cause a drop on the bandwidth of WLAN networks. It is advisable to keep the communication antennas of the WLAN and Bluetooth away from each other at least 30 centimetres. If necessary, use a USB extension cable.

In order to improve the quality of the Jaltest Link connection, please take into account the following:

- Use the unit in places where you can avoid physical elements that hinder the communication of the computer with Jaltest Link.
- Use the USB connection if problems with the Bluetooth connection are detected.
- Use one Bluetooth hardware in the computer only; otherwise a proper connection with Jaltest Link will not be carried out.

2.6.2 BLUETOOTH SYMBOLS INFORMATION

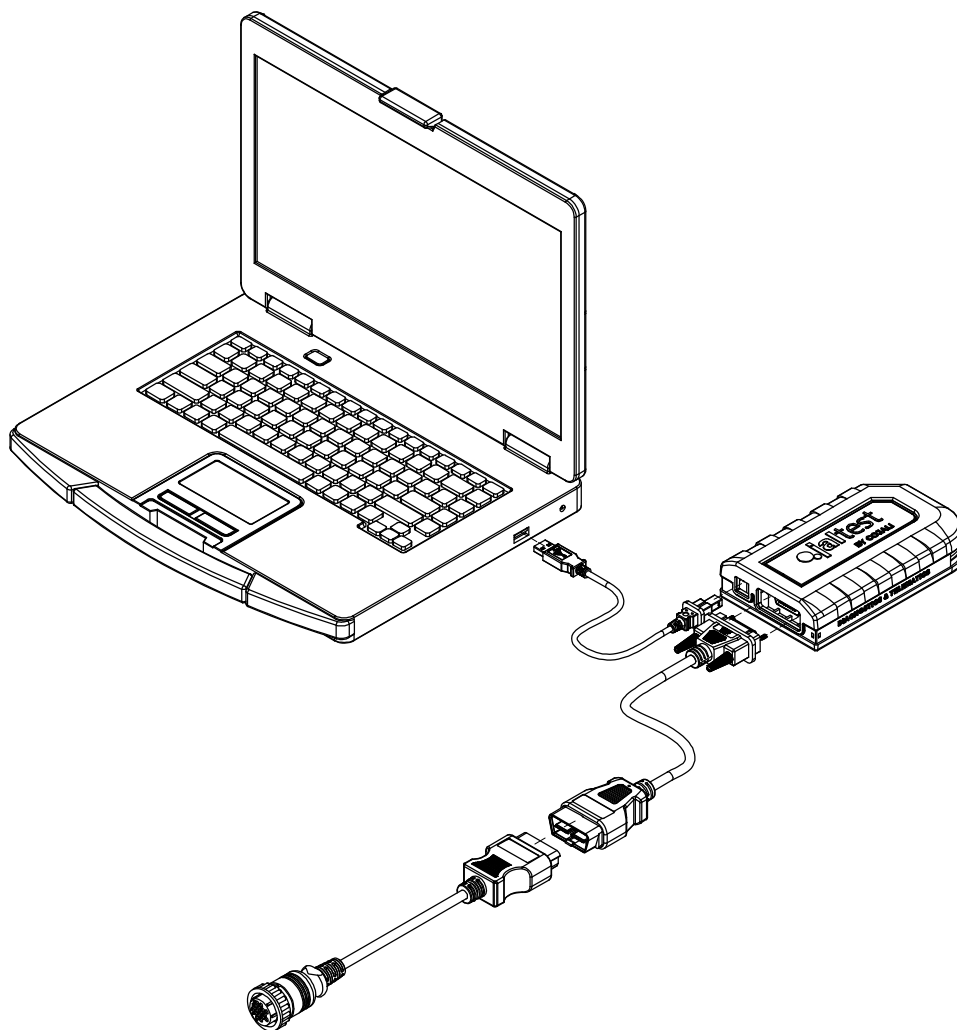
SYMBOL	STATE
	No Bluetooth adapter.
	Bluetooth ready to connect.
	Bluetooth connecting to device.
	Bluetooth connected to device.

2.7 USE AND CONNECTIONS

Jaltest Link must be connected to the PC via Bluetooth or through USB port.

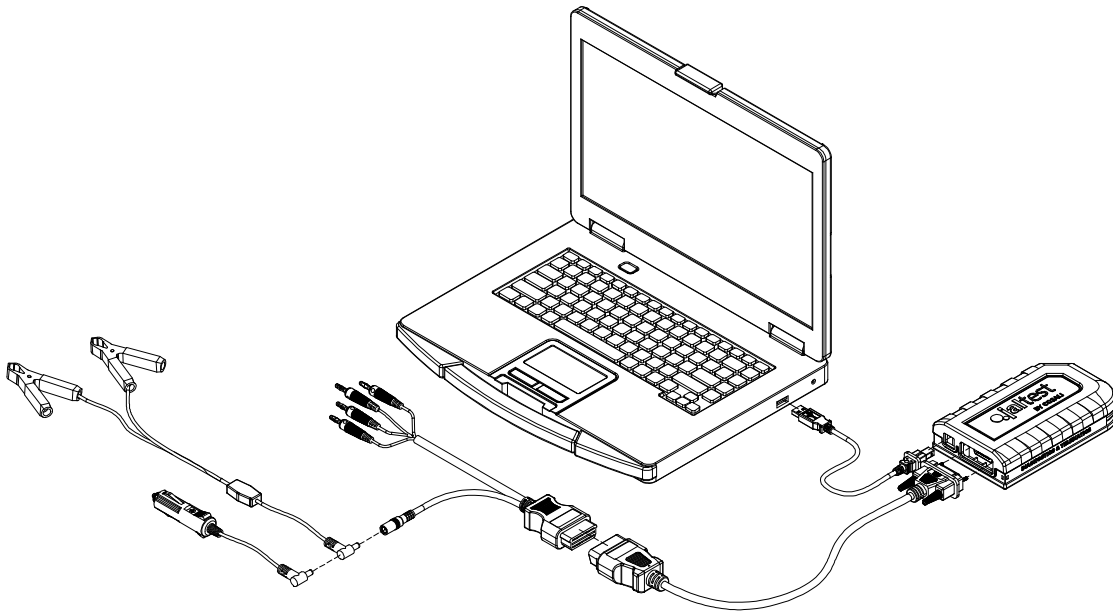
In order to connect the Jaltest Link to the vehicle, you can use a direct connector or the multipins kit.

There is also an extension cable (ref. JDC 100).



Connection detail using the direct connector and the USB cable.

In case of using the multipins connection, it is necessary to use the external electrical power supply (lighter or battery).



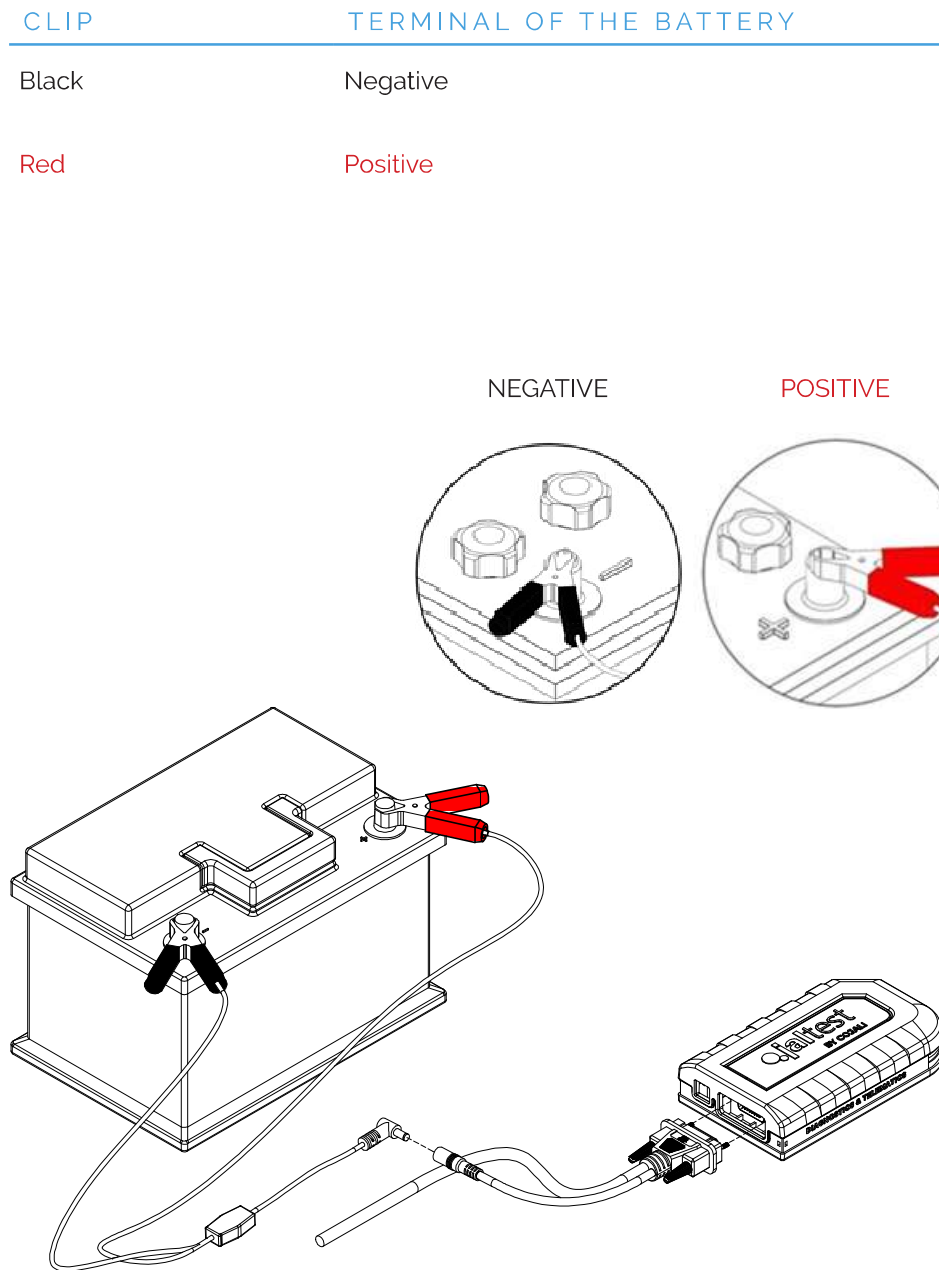
Connection detail using the multipins connector.

In the case of using the extension cable, the power supply jack of this cable or of the multipins cable can be used. Although using both at the same time does not present any risk to the device or the vehicle, it is recommended to use only one of them.



A change in polarity may damage the device. When using external power supply, it is mandatory to respect the battery polarity to which the cable JDC10AM2 is connected (Jack-clips) in order to supply the Link.

Correct connection:

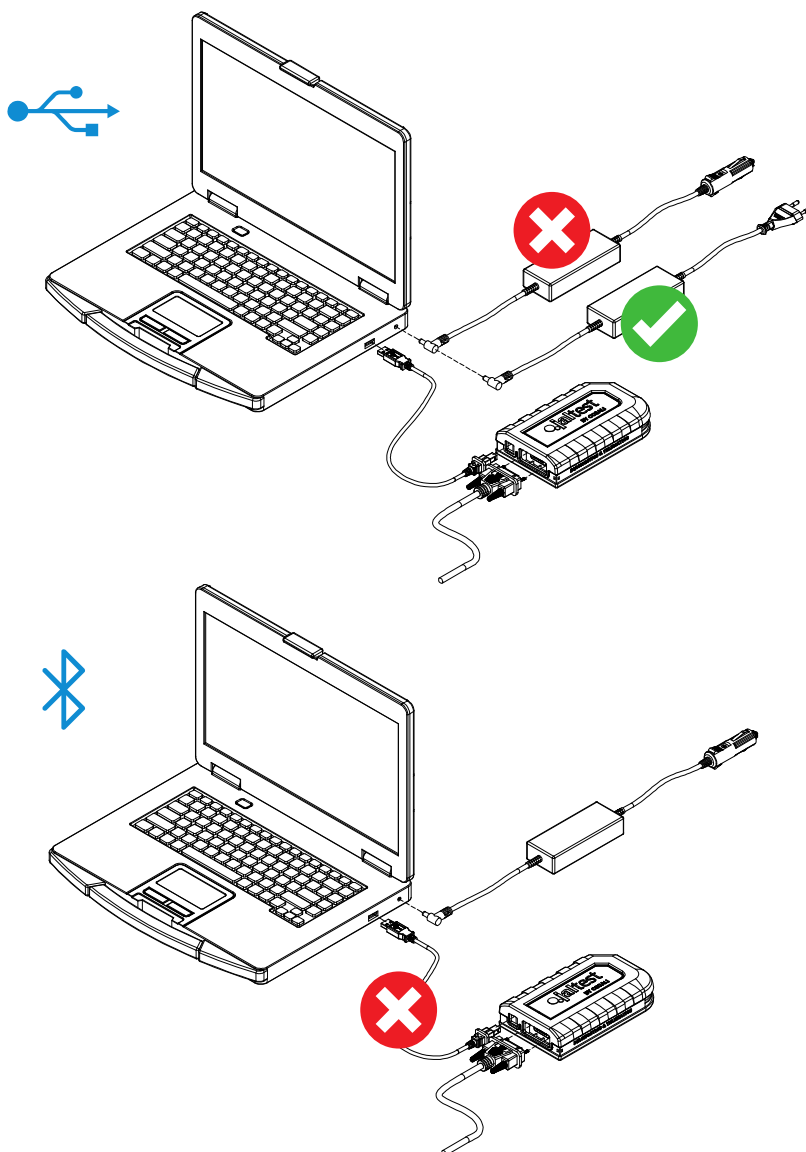




To prevent incompatibilities between the power adapters for PCs which are connected to the lighter and to Jaltest Link, it is completely forbidden to use the USB connection between the PC and Jaltest Link when a power supply adapter is connected to the lighter of the vehicle which is being diagnosed.



If the diagnosis device, Jaltest Link, can only be connected to the PC via USB, then it will be necessary to use the standard power adapter supplied with the laptop (connected to the power network) if the battery level is not enough.



2.8 TROUBLESHOOTING

Jaltest may display different errors when using the diagnosis in a vehicle or when accessing the display of technical information. A chart with the codes of possible errors is shown next:

CÓDE	INSTRUCTION
004 Communication error with the control unit.	<ul style="list-style-type: none"> · Check the electrical installation between the vehicle and the diagnosis device. · Check the selected system. · Connect with the system again.
005, 006 Communication error with Jaltest. Blockage or electrical power supply loss.	<ul style="list-style-type: none"> · Disconnect Jaltest Link and connect it again. · If the problem continues, restart Jaltest.
007 Connection error with Jaltest. Verify the USB or Bluetooth connection and try again.	<ul style="list-style-type: none"> · Check the USB or Bluetooth connection with the PC. · Check the communication mode selected in Jaltest. · If the problem continues, restart the computer and try again.
016 The connection with the specified Interface is not allowed.	<ul style="list-style-type: none"> · If you want to use the connected Interface, you must activate the license for that device. · Otherwise, connect the interface with the operative license.

CODE	INSTRUCTION
018 The Firmware Version of your Interface is not updated. This may cause and unwanted behaviours in the system. Please, update.	<ul style="list-style-type: none"> · Update the Jaltest device with the Firmware of the latest version.
020 No communication could be established with your diagnosis device. The technical information displayed will close for safety reasons.	<ul style="list-style-type: none"> · Connect Jaltest Link to the PC, using the appropriate channel and visualize the Technical Information again.
021 License expired, please contact your distributor.	<ul style="list-style-type: none"> · Expired license: Activate again. · Corrupt license: Update the Jaltest Link firmware and, after that, activate the license again.
052 Communication error with the control unit.	<ul style="list-style-type: none"> · Check the electrical installation between the vehicle and the diagnosis device. · Check the selected system. · Connect with the system again.
101, 102 Execution Error. Problems when loading data.	<ul style="list-style-type: none"> · Restart Jaltest. · If the problem continues, it is advisable to reboot the PC.

If any of the above errors occur and, after following the steps, the problem is not solved, it is recommended to contact the Jaltest technical assistance service.

INFO ONLINE P004 INSTRUCTION ERRORS

- EMC3001 . Invalid diagnostic device.
- EMC3002
- EMC3003
- EMC3013

- EMC3004 . Error in the seed of the request to the web service.

- EMC3005 . Non-licenced diagnosis device.

- EMC3006 . Expired licence.

- EMC3007 . Invalid Info Online module.

- EMC3008 . Wrong software version.

- EMC3009 . Wrong software project.

- EMC3010 . Error code in the identification to the web service.

- EMC3011 . Error in the date.

- EMC3012 . Invalid licence version.

- EMC3015 . The INFO module is expired.

- EMC3016 . The INFO module is not contracted.

3 Installation

3.1 JALTEST

In order to install Jaltest, you must follow these steps:

1. Finish all open applications.
2. Run "YY_x_x_x_Jaltest_Install.exe" file from a local directory of the PC. The installation process starts.
3. For a proper installation of the software, take into account and follow the indications displayed on the screen.
4. Before proceeding with the copying of the files into the computer, the installer will check the license of your product. In order to process the license of your product, see section 3.3



It is necessary to have Adobe Reader installed in order to read the Jaltest users manuals included in Jaltest.

5. During the installation of Jaltest, the update of Jaltest Link firmware is carried out:
 - Connect the device to the computer via USB (Bluetooth cannot be used).
 - If the firmware is not updated, the updating process will start.
 - Press "Next" in order to perform the firmware updating process (this process will take about 30 minutes).



3.2 USER REGISTRATION

It is necessary to register as Jaltest user to activate the device and use the software.

The user registration can be performed on jaltest.com website or directly during the first installation of Jaltest where in any case you must enter your credentials.

3.2.1 WEB LOG WITH ACTIVATION CODE

You can use this code to log in on jaltest.com website. This registration allows you the download of the current version of Jaltest, the processing of licences in Jaltest, etc.

Steps to be followed in the registration:

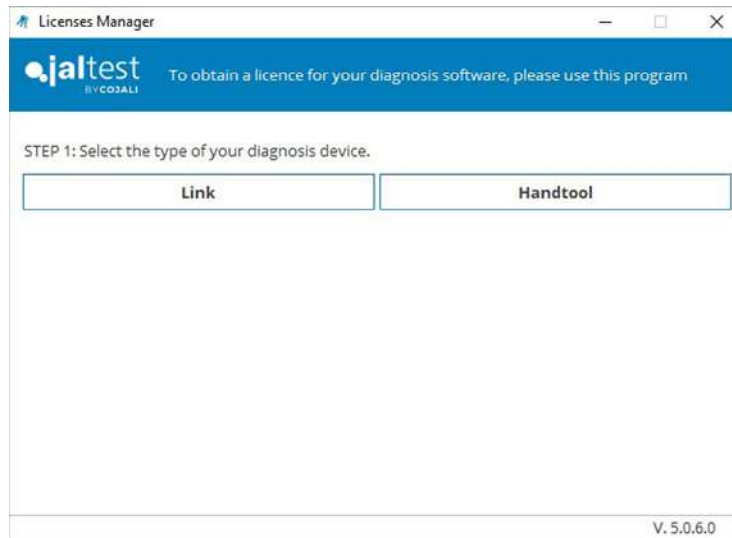
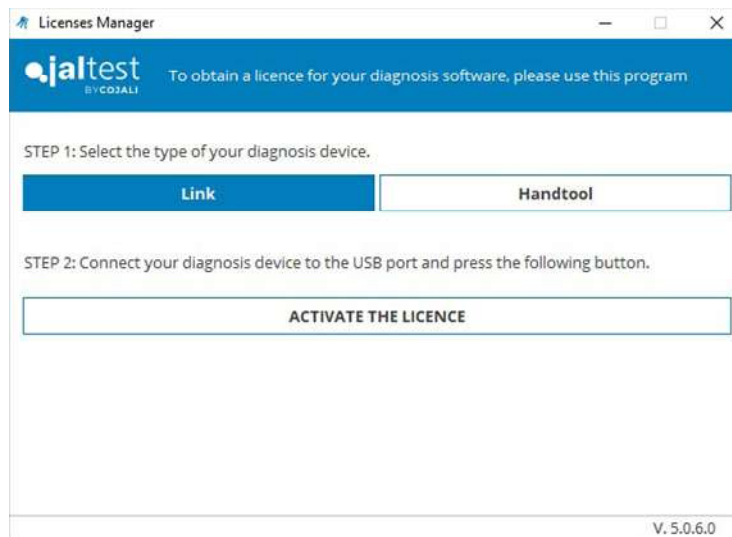
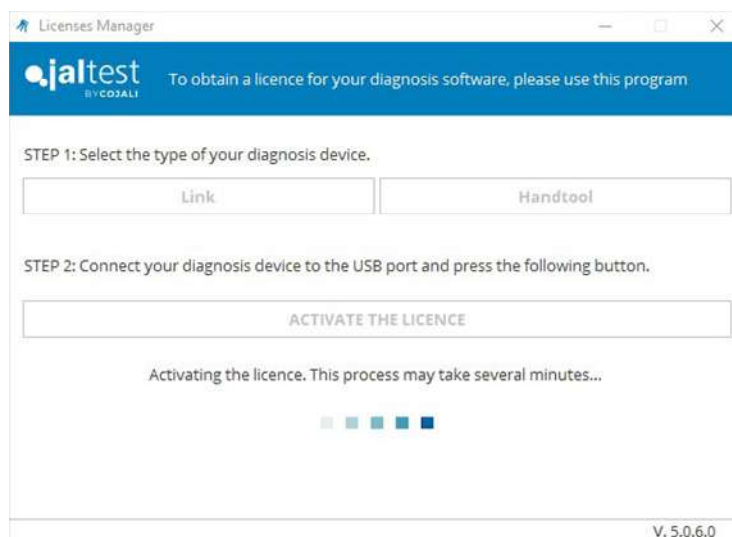
1. Access jaltest.com website.
2. Enter "Customers" option.
3. Click on "Register" button in "Register as Jaltest user" section.
4. Next, fill in the registration form and enter the activation code that you have received with your device.
5. You will receive confirmation of your registration by email and you will be able to access to customer area with the credentials previously indicated.

3.2.2 REGISTRATION IN JALTEST

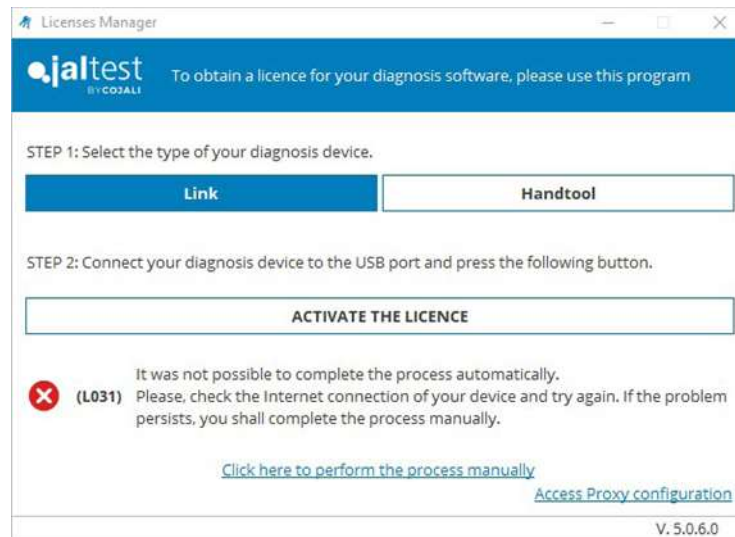
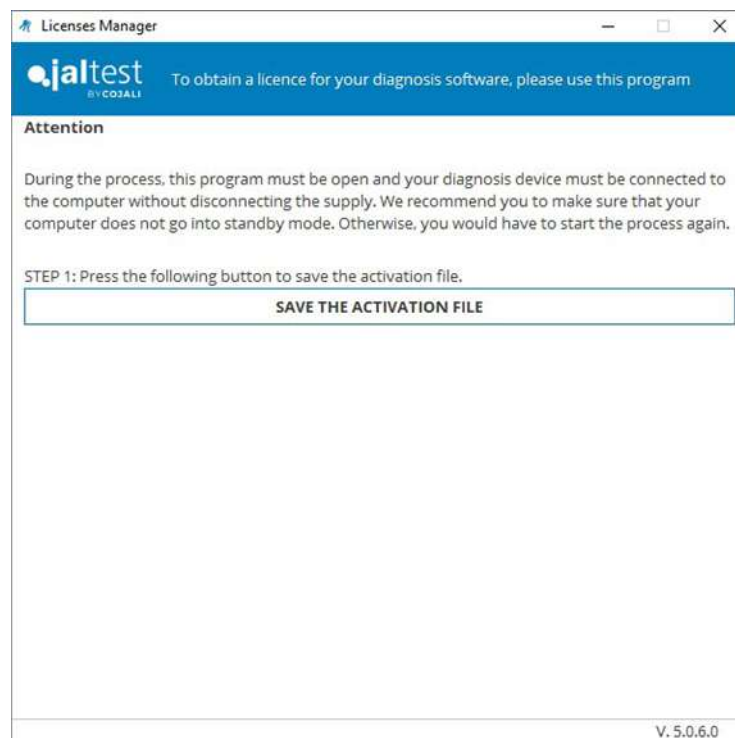
The welcome form to Jaltest registration is shown below. If you have previously registered, select "I am already a Jaltest user" and enter your credentials. If you are not registered yet, select the option "I am not a Jaltest user" and configure your new account. To do this, follow the instructions of Jaltest and fill in the registration form.

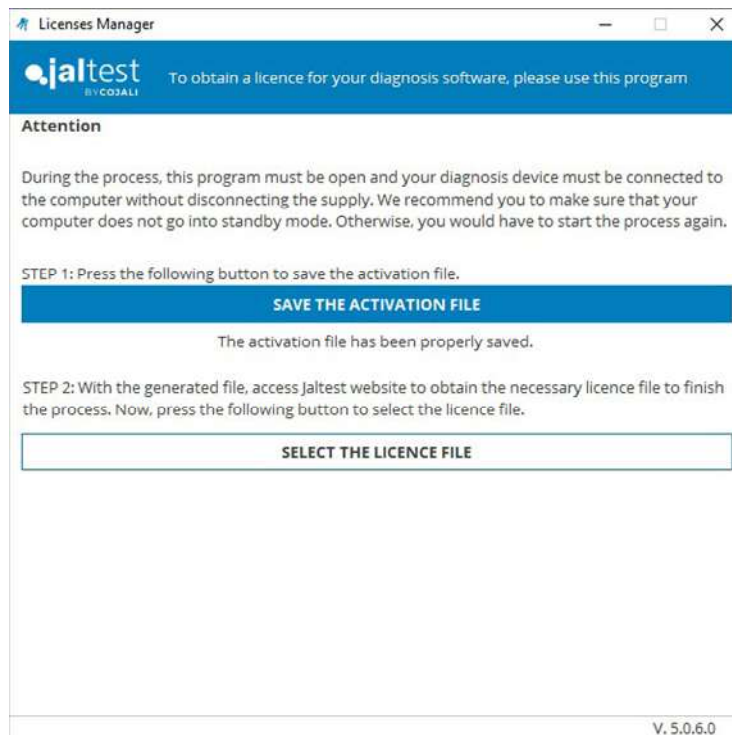
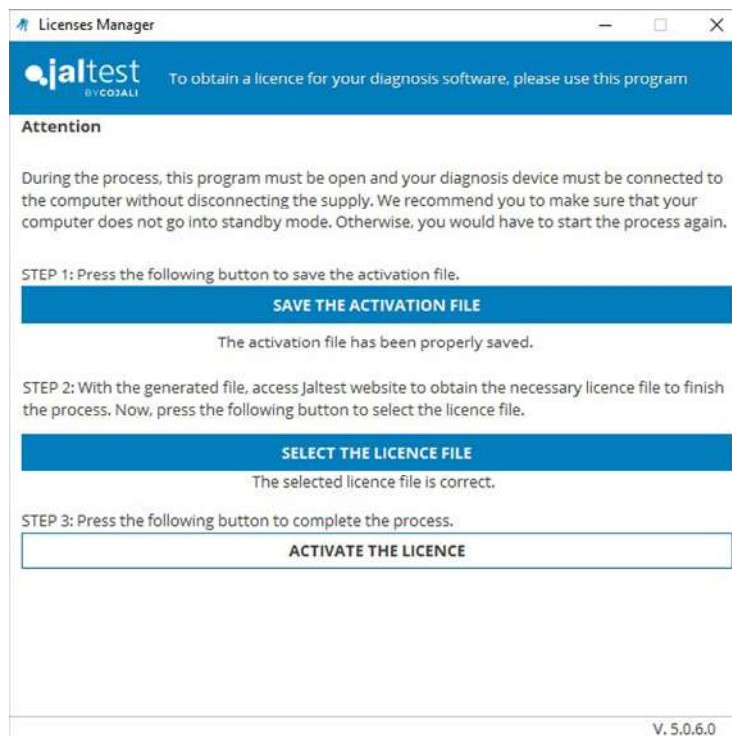
3.3 PROCESSING THE JALTEST LICENSE

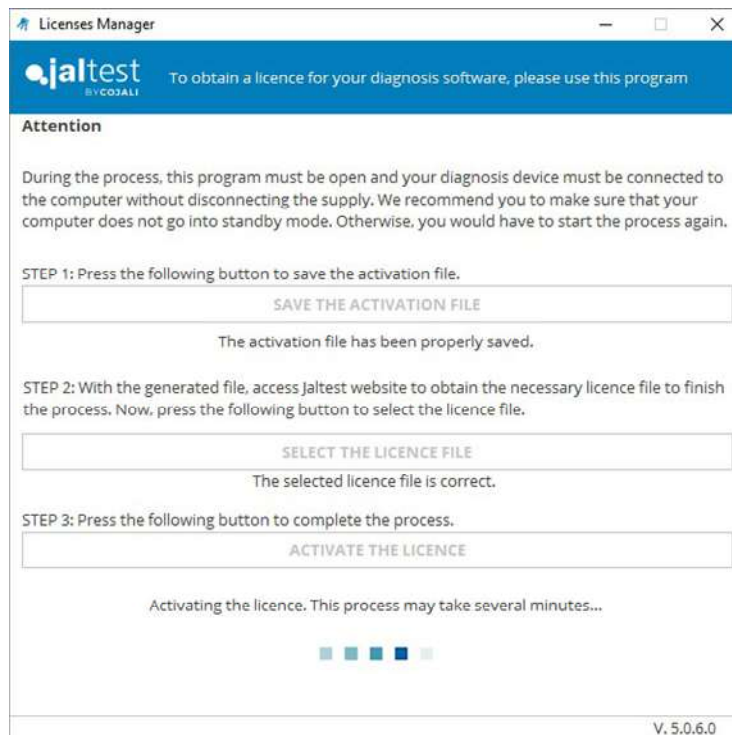
During the installation of Jaltest or after the license expiration, the following wizard will be displayed. You must follow the indicated steps to manage the device license:



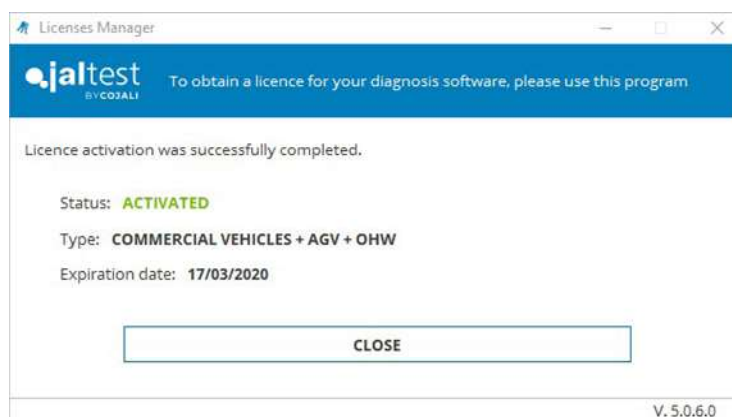
In the event of communication problems with Cojali servers, the process may be performed manually by generating a license file. The following steps will help you in the process:







In both cases, whether the process has been performed automatically or manually, the license is activated until the indicated date:



3.4 BLUETOOTH INSTALLATION

In order to successfully use the Bluetooth connection available with Jaltest and obtain the expected results, it is necessary to register the Jaltest external device in your Operative System. The following steps must be followed in order to achieve this:

1. **You must have a Bluetooth device.** Your personal computer must have a Bluetooth radio device. In case you do not have said device, you will have to use an external device via USB (remember that this procedure is guaranteed for the devices approved by COJALI). When inserting the Bluetooth external device in the USB port of your computer, it will be automatically recognized by the Operative System.
2. **Turn on the Jaltest Link diagnosis interface.** Make sure the Jaltest device you want to add is on and/or properly supplied with power.
3. **Registration of Jaltest Bluetooth external device.** Once the Bluetooth USB has been recognized by the Operative System of your PC, you will be able to add Jaltest Link for the execution of the diagnosis software.

4 Maintenance

4.1 CLEANING

Clean the Jaltest Link housing with a damp cloth. Never use abrasive cleaning products.

4.2 SPARE PARTS AND WEARING

Contact the customer service for these inquiries.

5 Environmental information

The Jaltest Link diagnosis interface is subject to European Directive 2012/19/EU (RAEE).



At the end of the useful life of the Jaltest unit, you must not dispose of it by mixing it with the general waste.

You can hand it over, at no cost, to the distributor who will provide this service.

Warning: Disposing of a residue of an electronic device separately means avoiding possible negative consequences for the environment and health, resulting from an inadequate disposal, and allows a treatment and recycling of the materials it is made up of, obtaining important energy and resources savings.

Note: In order to emphasize the obligation to cooperative with a selective recycling, the warning shown on the picture can be found in the product, indicating that no traditional containers should be used for its disposal.

6 Technical data

6.1 GENERALITIES

Operating voltage	9 V DC - 32 V DC
Power consumption of the vehicle's battery	7 watts
Volume (length x width x height)	169 x 99 x 38 mm
Weight (without cables)	367 g
Service temperature	(-20 °C) - 60 °C
Relative air humidity	90 % (at 25 °C)

6.2 COMMUNICATION PROTOCOLS

For the performance of diagnosis in control units, Jaltest Link supports the following communication protocols according to regulation ISO 15031: ISO 9141-2, SAE J1850 VPW, SAE J1850 PWM, SAE J1708, SCI Haldex, CAN ISO 11898, ISO 15765-4 (OBD), CAN Single Wire...

DIAGNOSTIC INTERFACES	MUX
CAN 2.0B	4
CAN 2.0B (ISOLATED)	1
CAN FD	1
CAN Single Wire	1
K-Line	1
L-Line	1
GMUART	1
TTL	1
RS232	1
SAE J1708	1
SAE J1850	1
PWM	1
SCI Haldex	1
VPP	1

6.3 BLUETOOTH

FCC identifier: RFRMSR
 IC identifier: 4957 A-MSR
 Brand: Telit
 Model: BlueMod + SR
 Type: Class 1 BR/EDR/LE
 Antenna: Integrated/Internal
 Frequency range: 2400 - 2483.5 MHz
 Output power: +7 dBm+

FCC identifier: XPYNINAW15
 IC identifier: 8595A-NINAW15
 Brand: ublox
 Model: NINA-W152
 Type: Bluetooth v4.2 + EDR
 Antenna: Integrated/Internal
 Frequency range: 2400 - 2483.5 MHz
 Output power: +8 dBm

Range Data

PLACE	MINIMUM RANGE
Open space	50 meters
Open door or Windows of the vehicle and engine running	10 meters



AGRICULTURAL.



MATERIAL HANDLING.



COMMERCIAL.



OFF-HIGHWAY.



MARINE.



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Local Distributor