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| **Diagbox Diagnostic Tool** |
| **Diagnostic tool manual** |



Sommario

[1. TITOLO 1 2](#_Toc495648770)

[1.1. Asdfsdfsdf 2](#_Toc495648771)

[1.2. Asdfsdfsdfggg 2](#_Toc495648772)

# DIAGBOX

## DIAGBOX Diagnostic tool

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| DIAGBOX_1.1.jpg  **Cod. ED0014604210-S - \* Pn to the complete kit tool** |

## Contents of suitcase

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| DIAGBOX_1.2_EN.jpg |

# Connections

## Connection with OBD II connector

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| DIAGBOX_2.1_EN.jpg |

## Connection with DEUTSCH connector

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| DIAGBOX_2.2_EN.jpg |

## USB connection

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| DIAGBOX_2.3.jpg |

## Complete connection with DEUTSCH

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| DIAGBOX_2.4.jpg |

## Complete connection with OBD II

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| DIAGBOX_2.5.jpg |

# PC Arrangement for Diagbox software

## PC Arrangement for Diagbox software

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| Z_Pericolo.jpg  **Warning**  Start the engine; connect the test equipment ONLY after starting the engine.  **NOTE** : if the test equipment is connected before starting the engine, hunting may occur.  To cure the issue, disconnect test equipment cable from the engine, allow a few seconds and then reconnect the equipment. | |
| To download the "Setup DiagBox.exe" oftware, perform the following operations:  Go to website [**"http://iservice.lombardini.it"**](http://iservice.lombardini.it) and click on "KDI KOHLER DIESEL".  DIAGBOX_3.1_IT.jpg  Read carefully "PRIVACY" box and click on "I ACCEPT"  DIAGBOX_3.2_EN.jpg  Enter the "Username and Password", flag "I AM NOT A ROBOT" and clicking "Log-in"  DIAGBOX_3.3_EN.jpg  If you have no "USER ID" and "PASSWORD", register by clicking on "SIGN IN".  DIAGBOX_3.4_EN.jpg | |
| Fill out the required fields and “DIAGNOSTIC TOOL CODE (ONLY IF YOU HAVE THE TOOL)" box. | DIAGBOX_3.5.jpg |
| Wait for the email to confirm your registration. | |
| Click on "DIAGNOSIS AND FLASHING"  DIAGBOX_3.6_EN.jpg  Click on "DIAGNOSTIC TOOL"  DIAGBOX_3.7_EN.jpg  Download from i-Service Setup DiagBox.exe and click on "Salva file".  DIAGBOX_3.8_EN.jpg  Click on "Esegui".  DIAGBOX_3.9_IT.jpg  Z_Pericolo.jpg  **Warning**  If you upgrade your software, you can:  - uninstall the earlier version and install the most recent version using the wizard, or  - launch the new software installation wizard directly (click on "Modify" when prompted) | |
| Z_Pericolo.jpg  **Warning**  In the event that the PC is equipped with anti-virus protection, proceed as follows  Click on "Azioni".  DIAGBOX_3.10_IT.jpg  Click on "Run anyway".  DIAGBOX_3.11_EN.jpg  Click on "Allow this file".  DIAGBOX_3.12.jpg  Select the desired language (1) and press "OK" (2).  DIAGBOX_3.13_IT.jpg  Click on "Next".  DIAGBOX_3.14_EN.jpg  Click on "Next".  DIAGBOX_3.15_EN.jpg  Tick "Create a desktop icon" (1) and then click on "Next" (2).  DIAGBOX_3.16_EN.jpg  Click on "Install".  DIAGBOX_3.17_EN.jpg  Please wait while setup installs DiagBox on your computer.  DIAGBOX_3.18_EN.jpg  DIAGBOX_3.19_EN.jpg  Click on "Next"  DIAGBOX_3.20.jpg  Click on "Next"  DIAGBOX_3.21_EN.jpg  Click on "I have read the licence conditions" and press "Install"  DIAGBOX_3.22_EN.jpg  Please wait while setup installs on your computer.  DIAGBOX_3.23_EN.jpg  Click on "Finish".  DIAGBOX_3.24_EN.jpg  DIAGBOX_3.25_EN.jpg  DIAGBOX_3.26_EN.jpg  Z_Pericolo.jpg  **Warning**  The USB DRIVER will be installed automatically when Diagbox is connected to the PC for the first time | |

# Information on resources used in graphics software

## Home Screen

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| The purpose of this document is to provide a reference for the images that characterise the graphical user interface of software.    Z_Pericolo.jpg  **Warning**  The screens are for information purposes.  DIAGBOX_4.1_EN.jpg |

## Language selection

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| DIAGBOX_4.2_EN.jpg  DIAGBOX_4.3_EN.jpg |

## Diagnosis selection

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| Press the "Check" push button to access the "Diagnosis" display screen.  DIAGBOX_4.4_IT.jpg  Press on "I agree"  DIAGBOX_4.5_IT.jpg  DIAGBOX_4.6_IT.jpg  Press the "KDI" push button to access the "KDI engine series diagnosis"  DIAGBOX_4.7_EN.jpg  Press "OK" to enter the "Engine parameters" menu.  01_EN_DB.jpg |

## Diagnosis menu

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| DIAGBOX_4.9_EN.jpg |

## Parameters menu

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| Press the ''Param.'' push button to access the ''Parameter'' display screen.  DIAGBOX_4.10_EN.jpg  ***Parameters***  DIAGBOX_4.11_EN.jpg  DIAGBOX_4.12_EN.jpg  Press the ''i'' push button to access the ''Help'' display screen.  DIAGBOX_4.13_EN.jpg  ***Engine log***  Press "HF" to start engine parameters  log. "Attention" box is displayed when log starts.  Click “OK” to stop the log..  DIAGBOX_4.14_EN.jpg  Z_Pericolo.jpg  **Warning**  Log can record a maximum of 40 minutes  Once engine parameters are logged, the relevant file will be saved to "Documents > Lombardini Kohler > Road tests" which was automatically created upon software installation.  DIAGBOX_4.15.jpg  Click "ROAD TESTS" and then .csv excel file to view engine parameters.  DIAGBOX_4.16_IT.jpg  Z_Pericolo.jpg  **Warning**  When several log files are recorded, it is recommended to move any previous log file to another folder and rename it, or it will be overwritten |

## Relay status menu and ECU sensors

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| Press the ''Status'' push button to access the ''Status'' display screen.  DIAGBOX_4.19_EN.jpg  ***List of existing engine statuses displayed***  DIAGBOX_4.20_EN.jpg  DIAGBOX_4.21_EN.jpg  Press the ''i'' push button to access the ''Help'' display screen.  DIAGBOX_4.22_EN.jpg |

## Menu information reported in ECU

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| Press the ''Info'' push button to access the ''Information'' display screen.  DIAGBOX_4.23_EN.jpg  ***List of information engine statuses displayed***  DIAGBOX_4.24_EN.jpg  DIAGBOX_4.25_EN.jpg  Press the ''i'' push button to access the ''Information'' display screen.  DIAGBOX_4.26_EN.jpg |

## Activation menu for active diagnosis

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| Press the ''Activate'' push button to access the ''Activation'' display screen.  DIAGBOX_4.27_EN.jpg  ***List of activation engine statuses displayed***  Menu_POLAR_EN.jpg  ***Reset PLV opening times***  To open the "Reset no.PLV" menu, use arrow button to select "Select other detail from list" and then "Replace selected activation with activation not displayed".  Once you open the "Reset no.PLV" menu, press "ACT" to reset the number of PLV opening times.  POLAR_EN.jpg  QR injectors entry code  DIAGBOX_4.29_EN.jpg  Press the ''i'' push button to access the ''Activation" (information)' display screen.  DIAGBOX_4.30_EN.jpg  Push the button "ACT" to activate the QR code writing procedure.  DIAGBOX_4.31_EN.jpg  DIAGBOX_4.32_EN.jpg  **The injector code is composed of 30 characters to insert at two different times.**  **Insert the first 15 characters of the code and press "OK"**  DIAGBOX_4.33_EN.jpg  Wait for confirmation to insert the second 15 characters of the injector code  DIAGBOX_4.34_EN.jpg  Insert the second 15 characters of the code and press "OK"  DIAGBOX_4.35_EN.jpg  ***"Activate" diagnosis example*** ***.***  If you wish to verify the operation of the EGR valve, follow this procedure:  DIAGBOX_4.27_EN.jpg  To access the "EGR valve on/off" display screen, press the right push button "Activation selection / scroll up and down".  DIAGBOX_4.37_EN.jpg  DIAGBOX_4.38_EN.jpg  By pressing the "ACT" push button, it activates the "EGR" test.  DIAGBOX_4.39_EN.jpg  Press "OK"  DIAGBOX_4.40_EN.jpg  **NOTE** : For another active diagnosis, select the desired activations by following the previous example |

## Error menu

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| Press the ''Error'' push button to access the ''Error'' display screen.  DIAGBOX_4.41_EN.jpg  DIAGBOX_4.42_EN.jpg  Press the "HF" push button to access the "Active error image information" video display  DIAGBOX_4.43_EN.jpg |

## Freeze frame menu

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| Displays engine parameters that are memorised at the time of the error.  Press the ''Freeze'' push button to access the ''Freeze Frame'' display screen"  DIAGBOX_4.44_EN.jpg  DIAGBOX_4.45_EN.jpg  Press "FF" to scroll the "Freeze Frame" referred to any errors.  Every error will create a .csv file and data will be saved to "Documents > Lombardini Kohler > Freeze Frame".  At the end of the list, the following page will be displayed.  DIAGBOX_4.46_EN.jpg  Page "Documents > Lombardini Kohler > Freeze Frame".  DIAGBOX_4.45_IT.jpg  Click "FREEZE FRAME" and then file .csv.  DIAGBOX_4.46_IT.jpg |

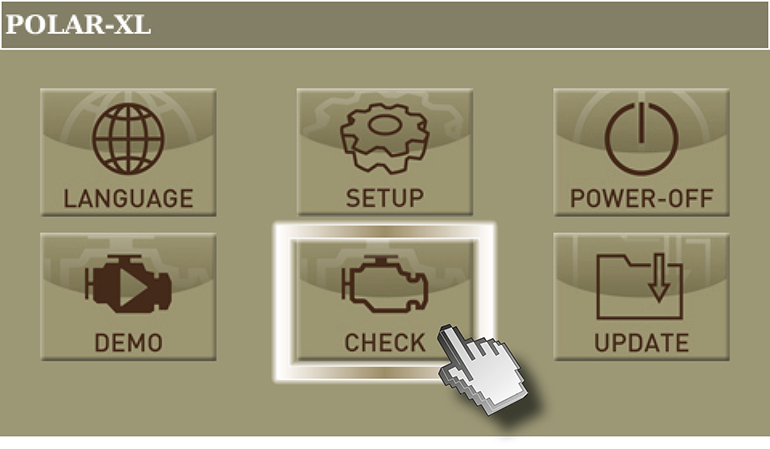
# Flashing

## Map download from the KOHLER server

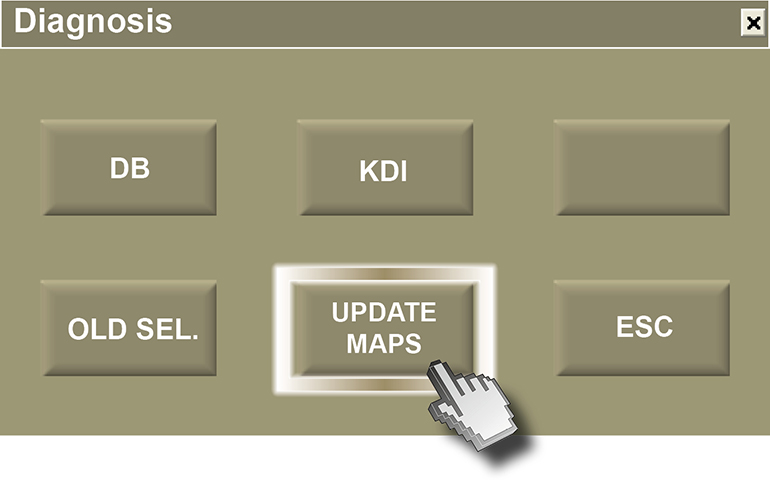
|  |
| --- |
| Go to websiteo [**"http://iservice.lombardini.it"**](http://iservice.lombardini.it/)  and click on "KDI KOHLER DIESEL"  Read carefully "PRIVACY" box and click on  "I ACCEPT"  DIAGBOX_3.1_IT.jpg  Enter the "Username and Password", flag "I AM NOT A ROBOT" and clicking "Log-in".  DIAGBOX_3.3_EN.jpg  Click on "DIAGNOSIS AND FLASHING"  DIAGBOX_3.6_EN.jpg  Click on "FLASHING"  DIAGBOX_5.4_EN.jpg  Enter the Username and Password, then click on "Login"  DIAGBOX_5.5.jpg  Click on "Flashing ROM"  DIAGBOX_5.6.jpg  Click on "Obtain MAC address" (1) and then enter the "Serial number" (2). Click on "Search" (3) and then "Download" (4).  DIAGBOX_5.7.jpg  Z_Pericolo.jpg  **Warning**  If the "MAC address" is not detected automatically, perform the following operations:  Click on "START" > "All programs" > Accessories > Command prompt.  DIAGBOX_5.8_EN.jpg  Write: **ipconfig/all.**  DIAGBOX_5.9.jpg  Press enter.  DIAGBOX_5.10_EN.jpg  Per i PC portatili, nella scheda "LAN wireless Connessione rete wireless" è indicato il numero dell' "Indirizzo fisico"; per i PC fissi l'indirizzo fisico si trova nella scheda "Ethernet Ethernet".  Each computer has a different number.  Write down the physical address number (1) (separating the numbers with ":" and no longer with "-") in the "MAC address" field of the PC.  Enter the "Serial number" (2) and then click on "Search" (3).  DIAGBOX_5.11.jpg  When the search is complete, the name of the file will appear, identified by the engine K of the relevant map.  DIAGBOX_5.12_IT.jpg  Click on "Download" (4) and click on "Save" (5).  DIAGBOX_5.13_IT.jpg  The file will be saved automatically to the "Download" folder of the computer.  DIAGBOX_5.14_IT.jpg |

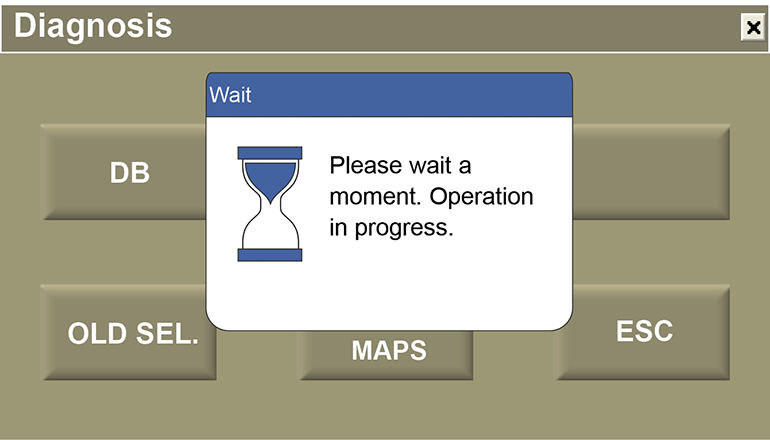
## Flashing

Press the "Check" push button to access the "Diagnosis" display screen.

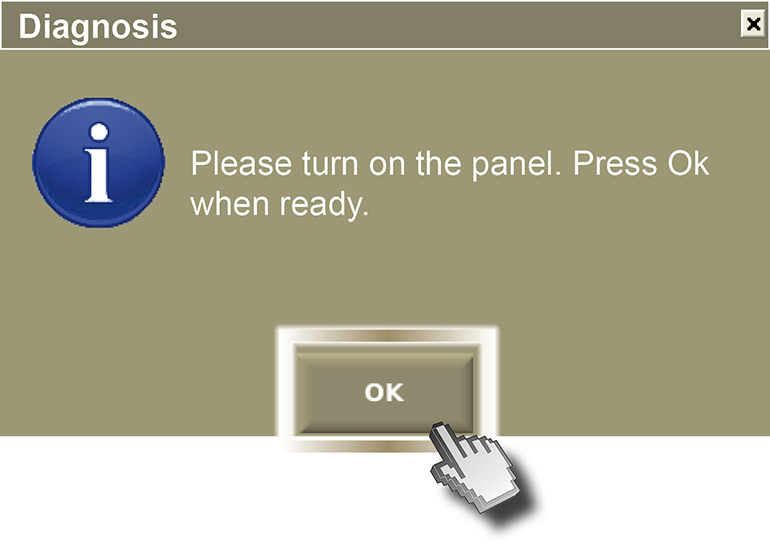


Click on "UPDATE MAPS" and wait some seconds.

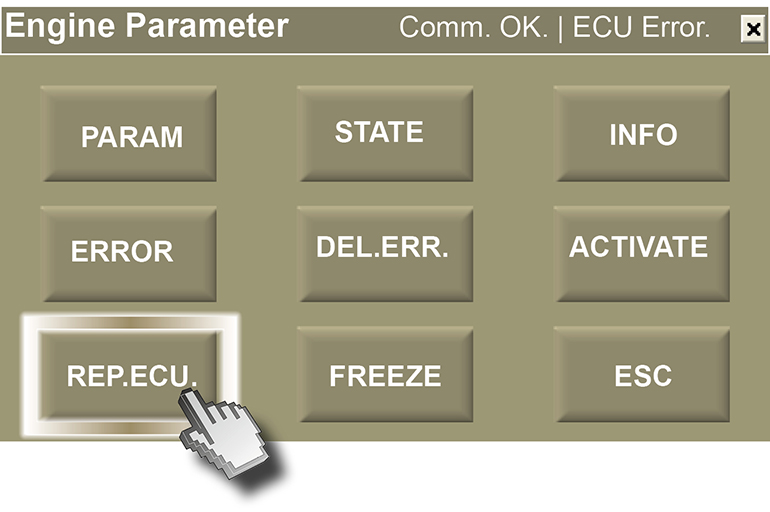




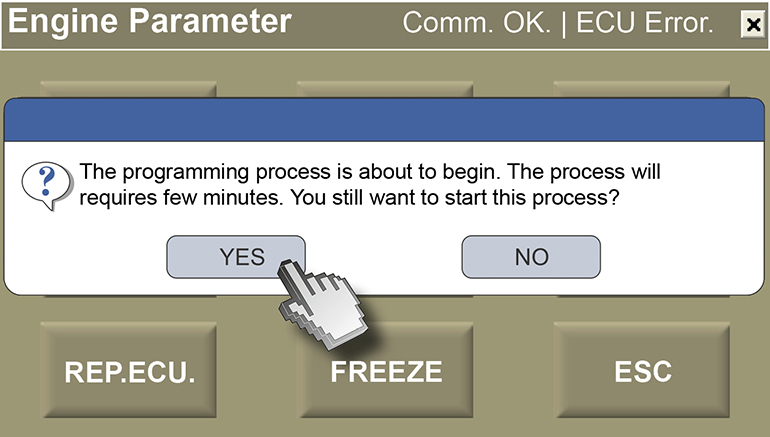
Turn on the panel and press "OK"



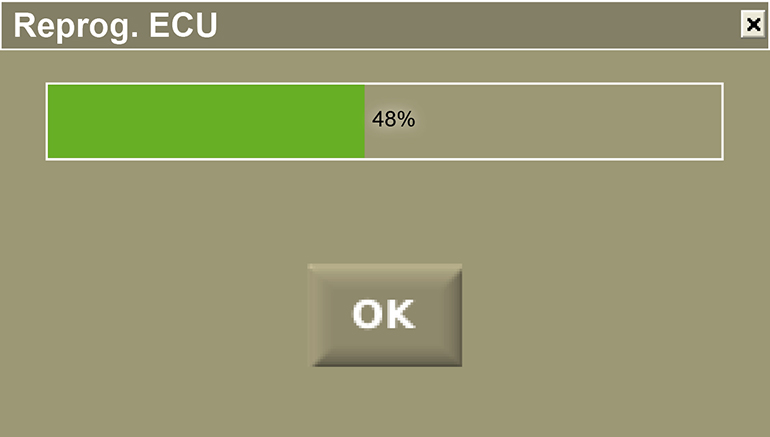
Click on "REP.ECU." (ECU reprogramming).



Click on "YES".



Wait some minutes.



Click on "OK".

