

# FiCOM

## User manual



<http://www.obdtester.com/ficom>

The screenshot displays the FiCOM diagnostic program interface. The main window is titled "FiCOM - Diagnostic program for Fiat/Alfa" and shows the "Main menu" with options for "Vehicle Diagnostics" (Select Control Unit, Auto-scan, OBD-II Connector Location) and "Miscellaneous functions" (Settings, About, Exit). A sidebar on the left shows "Control Unit Selection" for a "Fiat 500 2007-2012", with a list of modules including Airbag, Body Control Module, Air Conditioning, Display, Headlamp, Headlamp Slave, Instruments panel cluster (highlighted), and Parking Assistant. A bottom panel shows a live "Engine speed" graph at 800.000 RPM, with a list of parameters such as Lambda sensor 1 integrator, Linear pressure switch, Max engine speed counter, and Motorised throttle (recovery).

SECONS Ltd. is not connected with *Fiat* S.p.A in any way.

Please read carefully this user manual before using the FiCOM application.

SECONS Ltd. is not liable for damages caused by using the FiCOM.

Before using the software please read license agreement.



Abarth, Fiat, Lancia, Alfa Romeo, Innocenti, Maserati and Iveco are registered trademarks of Fiat Group or other owners.

Peugeot and Citroen are registered trademarks of Peugeot Group or other owners.

Ford is registered trademark of Ford Motor Company or other owners.

All trademarks used in this documentation or programs or any other material are used nominatively for identification purposes only and may be property of their respective owners.

# Table of Contents

|       |   |    |
|-------|---|----|
| 1     | <a href="#">Introduction</a>  | 4  |
| 1.1   | <a href="#">Key features</a>  | 4  |
| 1.2   | <a href="#">Software updates</a>  | 4  |
| 2     | <a href="#">FiCOM software and driver installation</a>                          | 5  |
| 2.1   | <a href="#">Microsoft Windows operating System</a>                              | 5  |
| 2.2   | <a href="#">Microsoft Windows 8 driver installation</a>                         | 6  |
| 2.3   | <a href="#">GNU/Linux System</a>  | 7  |
| 3     | <a href="#">Diagnostic connectors used in Fiat vehicles</a>                     | 9  |
| 3.1   | <a href="#">3-pin</a>   | 9  |
| 3.2   | <a href="#">Iveco 38pin</a>   | 9  |
| 3.3   | <a href="#">OBD-II CAN type I</a>   | 10 |
| 3.4   | <a href="#">OBD-II CAN type II</a>  | 10 |
| 3.5   | <a href="#">OBD-II CAN type III</a>   | 11 |
| 4     | <a href="#">Information about Fiat control units</a>                            | 12 |
| 4.1   | <a href="#">Fiat ECU naming terminology</a>                                     | 12 |
| 4.2   | <a href="#">Communication protocols</a>   | 12 |
| 4.3   | <a href="#">Diagnostics of Fiat Scudo, Fiat Ulysse, Lancia Z, Lancia Phedra</a> | 12 |
| 5     | <a href="#">Preparation to diagnose</a>   | 12 |
| 6     | <a href="#">FiCOM main menu</a>   | 13 |
| 6.1   | <a href="#">Select Control Unit</a>   | 13 |
| 6.2   | <a href="#">Auto-scan</a>   | 14 |
| 6.3   | <a href="#">OBD-II Connector Location</a>                                       | 14 |
| 6.4   | <a href="#">Settings</a>  | 15 |
| 6.5   | <a href="#">About</a>   | 17 |
| 7     | <a href="#">Diagnostic functions</a>  | 18 |
| 7.1   | <a href="#">Unrecognized Control Unit</a>                                       | 19 |
| 7.2   | <a href="#">Control Unit Identification</a>                                     | 20 |
| 7.3   | <a href="#">Read fault code memory</a>  | 23 |
| 7.4   | <a href="#">Clear Fault Codes</a>   | 23 |
| 7.5   | <a href="#">Freeze Frame</a>  | 24 |
| 7.6   | <a href="#">Measured values</a>   | 25 |
| 7.6.1 | <a href="#">Graph display</a>   | 25 |
| 7.6.2 | <a href="#">Display 3x3</a>   | 25 |
| 7.6.3 | <a href="#">Display list</a>  | 25 |
| 7.6.4 | <a href="#">Save to log</a>   | 25 |
| 7.7   | <a href="#">Actuators activation</a>  | 26 |
| 7.8   | <a href="#">ECU Programming/Coding functions</a>                                | 27 |
| 7.9   | <a href="#">ECU Configuration</a>   | 28 |
| 8     | <a href="#">Reporting bugs and improvement requests</a>                         | 29 |
| 8.1   | <a href="#">How to create Debug Log</a>   | 29 |
| 8.2   | <a href="#">How to create ecu Snapshot</a>                                      | 30 |
| 9     | <a href="#">Known problems</a>  | 31 |

## 1 Introduction

Thank you for purchasing the FiCOM diagnostic interface and software. FiCOM is professional tool for diagnostics of Fiat vehicles. Please read carefully this User Manual before using the product.

We hope you'll find our products useful. In case you have any questions, problems or feedback please contact as at [support@secons.com](mailto:support@secons.com). We're here to help!

### 1.1 Key features

- Support for wide range of ECUs and models
- Fully multiplexed all-in-one smart USB2.0 interface
- Wide range of communication protocols and buses covered: KW71, IAW, KWP2000, FIAT9141, ISO15765, UDS, ...
- Automatic ECU recognition
- Automatic vehicle scan
- ECU Identification
- Fault code (DTC) reading
- Fault freeze frame reading
- Fault code clearing
- Measured values / live data
- Live data recording
- Diagnostic protocol printing
- Actuator tests
- Control unit coding such as:
  - Immobilizer key matching
  - Injector coding
  - Parameters resetting

The FiCOM system works with Fiat vehicles. (It works as well with Fiat subsidiaries vehicles such as Ford Ka 2008+, Peugeot Boxer, etc.) The rule of thumb is: tasks related to fault code memory and identification are reliable everywhere, but measured values and other functions may not be fully supported.

### 1.2 Software updates

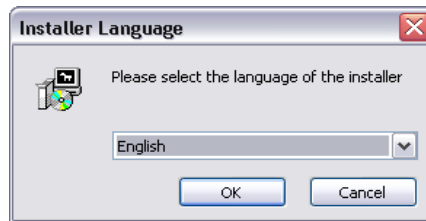
Updates of purchased software version are available for free download at [www.obdtester.com/downloads](http://www.obdtester.com/downloads). User name = serial number of FiCOM diagnostic interface. Password leave blank. The serial number can be found on a silver label of the interface or in settings of FiCOM after performing "Test interface". We recommend you to install updated version at least once a month, because updates provide support for new ECUs and fix various issues.

We recommend you to update firmware in diagnostic interface by clicking on *Settings* → *Upgrade firmware* every time you update the software.

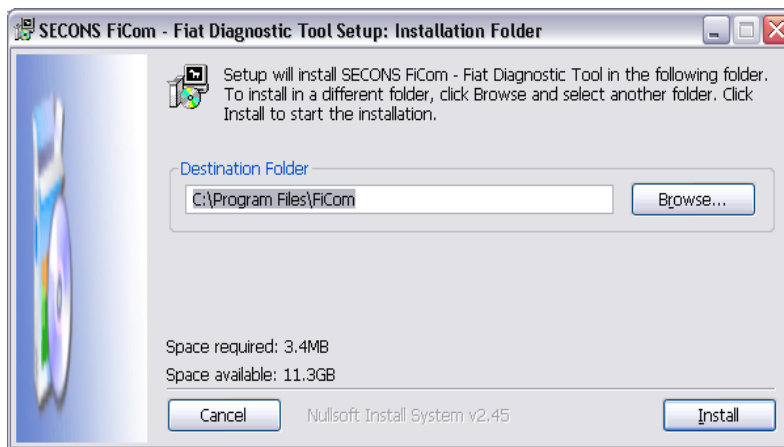
## 2 FiCOM software and driver installation

### 2.1 Microsoft Windows operating System

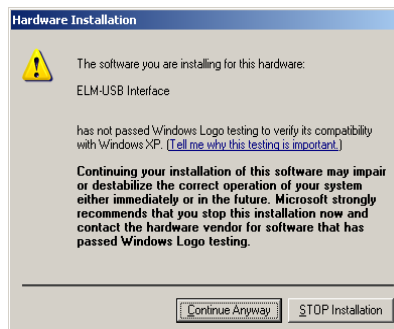
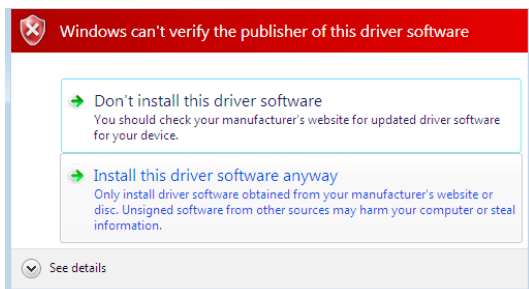
1. Insert FiCOM installation CD to your CD-ROM drive
2. Run installation file FiComSetup.exe
3. Choose language for the installer



4. Choose your destination folder for the FiCOM and click on *Install* button and after successful installation click on *Close* button.



FiCOM drivers are automatically updated during the FiCOM installation. When prompted to install „unsigned“ drivers, click on *Install this driver software anyway* (Microsoft® Windows® 7) or *Continue Anyway* (Microsoft® Windows® XP).



Microsoft® Windows® will automatically install drivers when you plug-in the FiCOM to USB port. Driver installation isn't required for operation on GNU/Linux system.

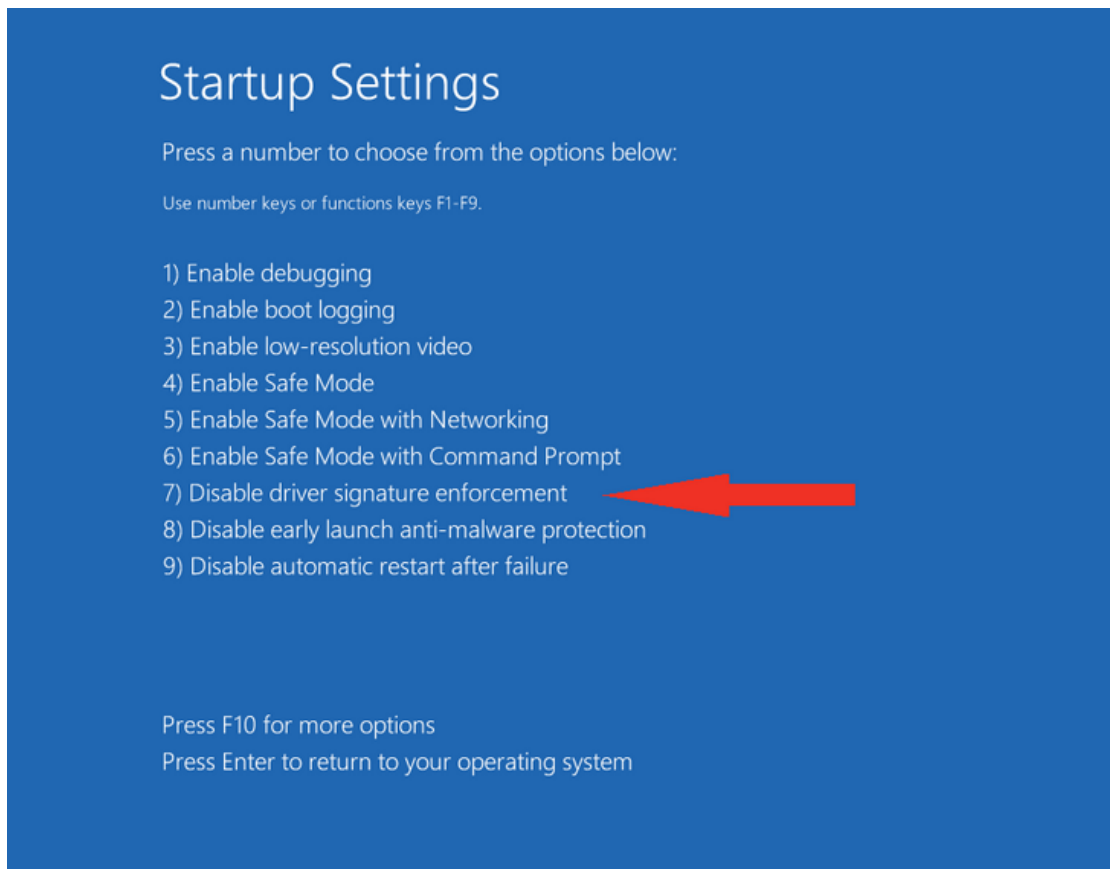
## 2.2 Microsoft Windows 8 driver installation

In case of problem with installing drivers on Windows 8, please follow these steps:

1. Press Windows Key + R
2. In the window that appears, type: "shutdown.exe /r /o /f /t 00"
3. Press "OK" button
4. The System will restart to a "Choose an option" screen
5. Select "Troubleshoot" from "Choose an option" screen
6. Select "Advanced options" from "Troubleshoot" screen
7. Select "Windows Startup Settings" from "Advanced options" screen
8. Click on "Restart" button
9. System will restart to "Advanced Boot Options" screen
10. Select "Disable Driver Signature Enforcement" (press number on keyboard for option shown on screen)
11. Once the system starts, install the diagnostic interface drivers as you would on Windows 7



Windows Vista & 7 required signed all .sys files (we use usbser.sys shipped by Microsoft with valid digital signature). Final version of Windows 8 requires also signed .inf file (which is not in our case). The above procedure helps to override unsigned .inf file. Once driver is installed, the program will work properly.



## 2.3 GNU/Linux System

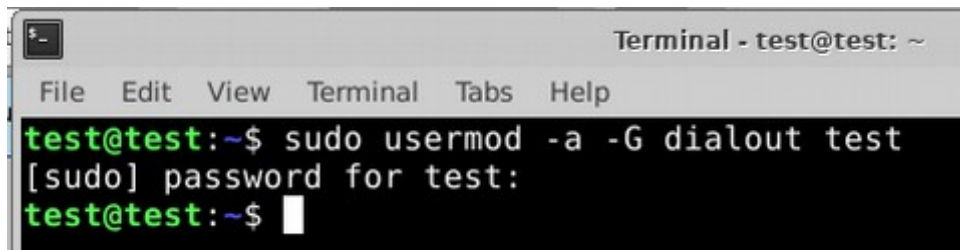
Our diagnostic application are tested to work under Linux. The applications can be run under Linux, BSD or Apple OS/X on Intel x86 using Wine environment. The installer and applications perform fully automated installation under these operating system.

### Important information:

- Only Ubuntu distribution 19.10 or later is supported using this guide, however other distributions that meet our requirements may work. For more information see [www.ubuntu.org](http://www.ubuntu.org)
- The diagnostic application runs under Wine which must be installed on the system. For more information see [www.WineHQ.org](http://www.WineHQ.org)
- Bluetooth connection is NOT supported natively on Linux (however with some effort you might be able to get it running, just instead of /dev/ttyACMx device use /dev/rfcommx).
- It is highly recommended to try the diagnostic application first under Microsoft Windows operating system to get familiar with it.

### Installation procedure:

1. Wine 4.0 or later on an x86 system is required. You can install Wine on Ubuntu using “sudo apt install wine”). You can verify Wine version by running “wine –version” from terminal. If you are running 64-bit system you must have 32bit libraries installed (which is usually done automatically when installing Wine from repositories). Other Debian-derived distributions use similar commands.

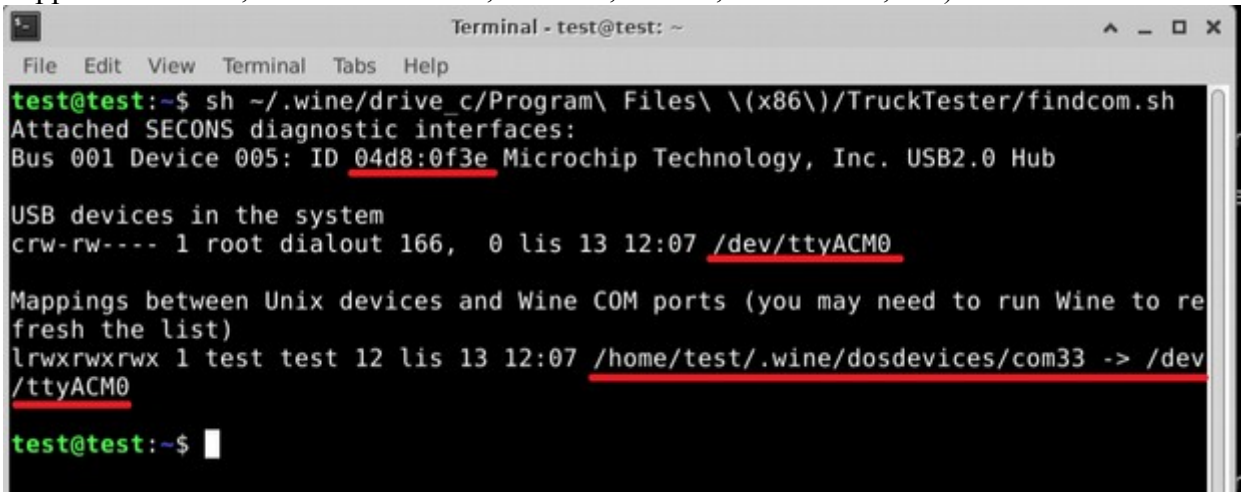


```
Terminal - test@test: ~
File Edit View Terminal Tabs Help
test@test:~$ sudo usermod -a -G dialout test
[sudo] password for test:
test@test:~$
```

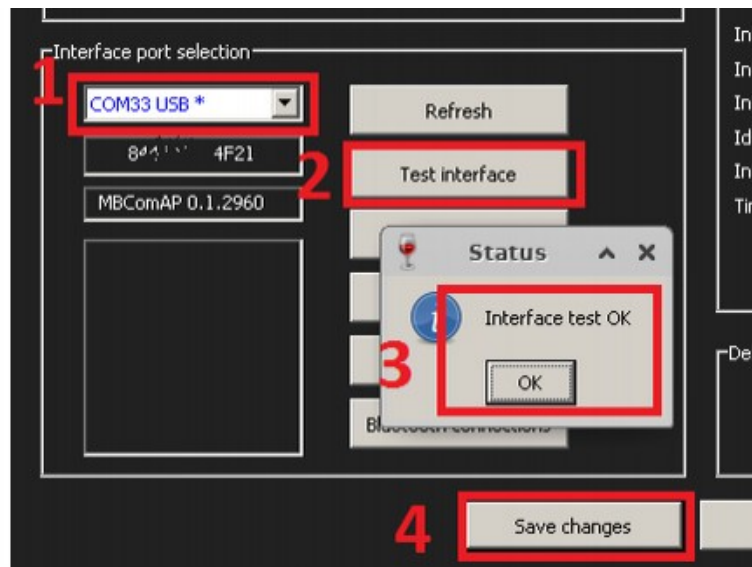
2. Add users who need to access the diagnostic interface to the ‘dialout’ group. Type “sudo usermod -a -G dialout username” (replace ‘username’ with your username, in the screenshot we have used ‘test’ user)
3. Log off from Xwindow session and login again.
4. Install the diagnostic applications (either using correct file manager association or from terminal, e.g. “wine ~/Downloads/PoCOMsetup.exe”). After the installation you should see the diagnostic application icon on the desktop and in start menu.
5. Now you need to figure out assignments between emulated “COMx” ports and respective Unix devices. For this we have created diagnostic script called “findcom”, which you can



run in terminal using comand “sh ~/.wine/drive\_c/Program\ Files\ \ (x86\)/APPNAME/findcom.sh” (replace APPNAME with actual diagnostic application name, such as BimCOM, PoCOM, FCOM, TruckTester, etc.)



- When you know COM port used in Wine (in the screenshots com33), configure the diagnostic application and test the interface



- Save settings and you should be ready to go.
- Optional.** To override Wine's default device mapping, run `wine regedit` and create string entries in `HKEY_LOCAL_MACHINE\Software\Wine\Ports` where the entry name is the Windows device name and the entry value is the path to the Unix device. To make COM1 the first USB-attached serial port, create an entry with the name COM1 and the value `/dev/ttyACM0`. After editing the registry, shut down Wine with `wineserver -k` and the next time Wine runs a program, your changes will take effect.



### 3 Diagnostic connectors used in Fiat vehicles

Location of OBD2, OBD1 or 3pin diagnostic connectors is available in DLC location database available from the FiCOM main menu.

#### 3.1 3-pin

Some older vehicles (up to 2003) may use 3pin connectors. Every system (Injection, ABS, Airbag, ...) use separate connector. Special OBD2 to 3pin reduction is available for such diagnosis.

The 3pin reduction cable has to be connected to battery positive voltage in order to work with FiCOM (the 3pin connector does not provide battery voltage).



| Pin | Description      |
|-----|------------------|
| A   | L-Line ISO9141   |
| B   | Chassis (ground) |
| C   | K-Line ISO9141   |

#### 3.2 Iveco 38pin

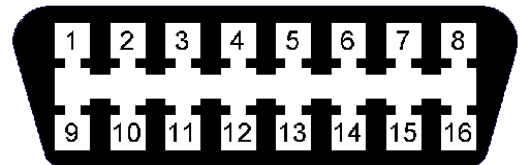
Iveco Daily 2001-2006 is using round 38pin AMP connector for diagnostics. Special multiplexed diagnostic adapter is required for these vehicles. Please contact your distributor or visit [www.obdtester.com/obd2\\_adapters](http://www.obdtester.com/obd2_adapters) for more information.



### 3.3 OBD-II CAN type I

Standard OBD2 connector is used since 1997 to approx. 2012 (please note that some models manufactured after 1997 still may use 3pin connector).

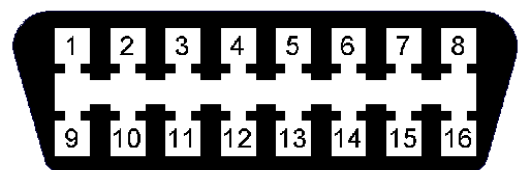
|                     |   |    |                 |
|---------------------|---|----|-----------------|
| ISO9141 K Line      | 1 | 9  | ISO9141 K Line  |
| -                   | 2 | 10 | -               |
| ISO9141 K Line      | 3 | 11 | ISO9141 K Line  |
| Ground (GND)        | 4 | 12 | ISO9141 K Line  |
| Signal ground (GND) | 5 | 13 | ISO9141 K Line  |
| FT CAN High         | 6 | 14 | FT CAN Low      |
| ISO9141 K Line      | 7 | 15 | ISO9141 L-Line  |
| ISO9141 K Line      | 8 | 16 | Battery voltage |



### 3.4 OBD-II CAN type II

Standard OBD2 connector is used for all vehicles using ISO14229 UDS diagnostic protocol (EP ECUs), Iveco Daily 2006- and some Maserati vehicles.

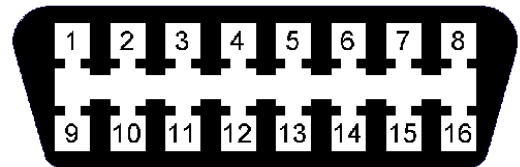
|                     |   |    |                 |
|---------------------|---|----|-----------------|
| FT CAN High         | 1 | 9  | FT CAN Low      |
| -                   | 2 | 10 | -               |
| ISO9141 K Line      | 3 | 11 | ISO9141 K Line  |
| Ground (GND)        | 4 | 12 | ISO9141 K Line  |
| Signal ground (GND) | 5 | 13 | ISO9141 K Line  |
| HS CAN High         | 6 | 14 | HS CAN Low      |
| ISO9141 K Line      | 7 | 15 | ISO9141 L-Line  |
| ISO9141 K Line      | 8 | 16 | Battery voltage |



### 3.5 OBD-II CAN type III

Standard OBD2 connector is used on all Chrysler-based e.g. Fiat Freemont/Dodge Journey) and selected 2015+ Fiat models (e.g. Fiat 500X). FiCOM diagnostic interfaces manufactured before 2016 are not fully capable of diagnosing these vehicles.

|                     |   |    |                 |
|---------------------|---|----|-----------------|
| FT CAN High         | 1 | 9  | FT CAN Low      |
| -                   | 2 | 10 | -               |
| MS CAN High         | 3 | 11 | MS CAN Low      |
| Ground (GND)        | 4 | 12 | AUX CAN High    |
| Signal ground (GND) | 5 | 13 | AUX CAN Low     |
| HS CAN High         | 6 | 14 | HS CAN Low      |
|                     | 7 | 15 |                 |
|                     | 8 | 16 | Battery voltage |



## 4 Information about Fiat control units

### 4.1 Fiat ECU naming terminology

Injection – Engine ECU control unit

Code – immobilizer control unit

Body – Body Computer (central electronics)

### 4.2 Communication protocols

| Protocol        | Diagnostic bus      | Production     |
|-----------------|---------------------|----------------|
| KW71 (Bosch)    | ISO9141             | 1991-2001      |
| Marelli IAW     | Marelli             | 1991-2001      |
| KWP2000,        | ISO9141             | 1996 – 2011    |
| FIAT9141        | ISO9141             | 1996 - 2007    |
| ISO15765        | CAN-BUS (ISO 11898) | 2003 - present |
| UDS (ISO 14229) | CAN-BUS (ISO 11898) | 2005 – present |

### 4.3 Diagnostics of Fiat Scudo, Fiat Ulysse, Lancia Z, Lancia Phedra

Fiat Scudo, Fiat Ulysse, Lancia Z, Lancia Phedra are not supported by FiCOM. Special diagnostic software for Peugeot/Citroen (PSA) must be used, such is PSA-COM ([www.obdtester.com/psacom](http://www.obdtester.com/psacom))  
Some ECU's in Fiat Ducato may also require diagnostics PSA.

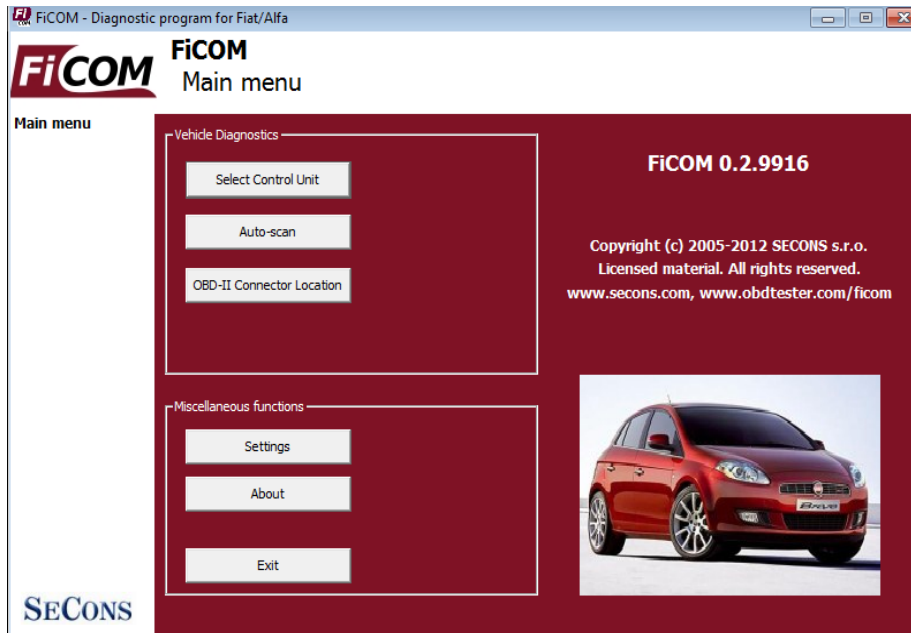
Fiat Sedici is based on Suzuki platform and is not supported.

## 5 Preparation to diagnose

Before starting diagnosis, make sure that car ignition is turned ON. Connect your FiCOM diagnostic interface to PC / laptop via USB. Interface test in settings of FiCOM must pass successfully (more information in chapter [Settings](#)). Connect your FiCOM diagnostic interface to OBD-II connector in the vehicle. You can find the OBD-II connector using FiCOM [OBD-II Connector Location](#) image database.

## 6 FiCOM main menu

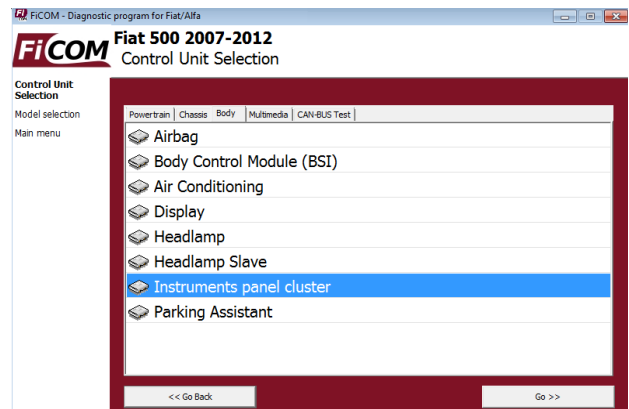
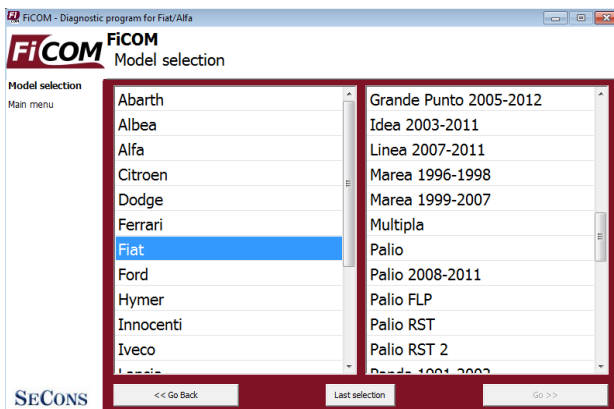
FiCOM main menu is divided into two parts → Vehicle diagnostics and Miscellaneous functions. Descriptions of single functions are given below.



### 6.1 Select Control Unit

Using this function you can connect to a specific control unit you wish to diagnose. You can choose the control unit from a complete list of control units after exact selection of tested vehicle.

All control units present in tested vehicle can be detected by [Auto-scan](#) function.



If control unit was recognized, you can use diagnostic functions.

In other case, you should study chapter [Unrecognized Control Unit](#) before using diagnostic functions.

Some ECUs such as ABS are not functional while being diagnosed. Warning beeps and error messages on instrument cluster may appear during diagnostics.



## 6.2 Auto-scan

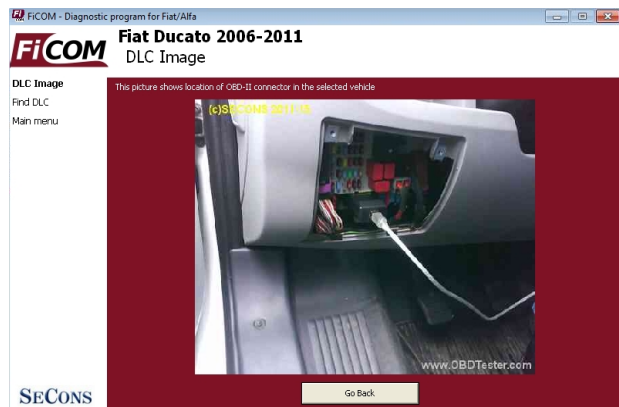
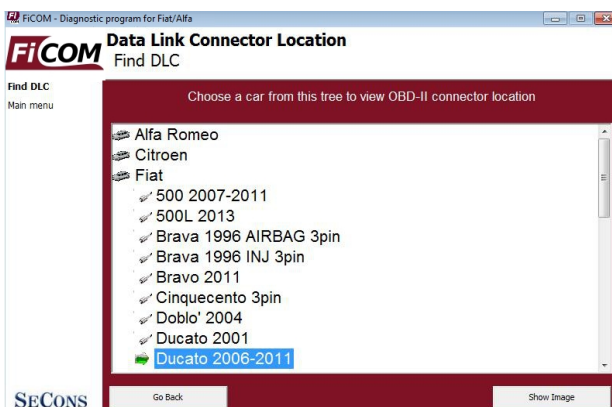
This function scans for all known ECUs and shows the list of ECUs present in vehicle along with number of diagnostic trouble codes.

It is necessary to select exact vehicle type before starting the auto-scan.



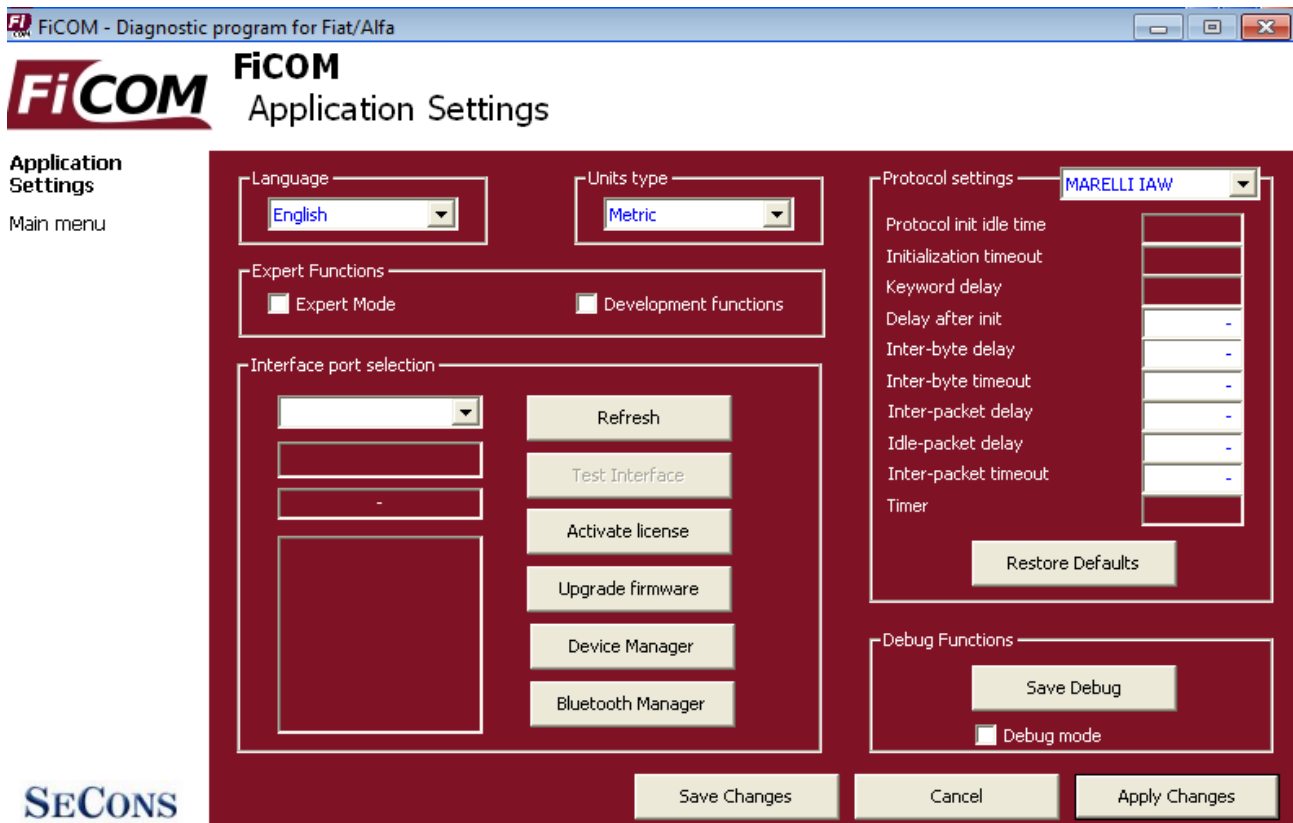
## 6.3 OBD-II Connector Location

Using this database you can check a location of OBD-II connector in the vehicle. The database is constantly updated.



## 6.4 Settings

All functions in settings are described below.



### Language

Choose language of FiCOM user interface in the drop down menu.

### Units type

You can choose metric or imperial unit system for measured values.

### Expert functions

Development functions - Enables additional functions under development. This setting is not saved before program exit and will be cleared on every application start. Do not enable this option unless requested by SECONS support staff as these functions may be dangerous to use without proper instructions.

Expert mode – Enables additional functions such as special coding functions or additional configuration options. These functions are intended for experienced technicians and are provided on “AS IS” basis, with absolutely no guarantee. It is highly recommended to leave this option unchecked. This mode also eliminates some warning messages and questions.



### ***Interface port selection***

**Refresh** - this button refreshes COM port selection drop down list. Correct COM port number should be already chosen after connecting diagnostic interface via USB to PC and clicking on *Refresh* button. If not, choose correct COM port number from the list. It is needed in order to perform successful interface test.

**Test interface** – before each use of program, please test proper function of your connected interface by clicking this button. After successful test, you can see a serial number of your interface displayed below the COM port field, then firmware version and information about active licenses.

**Activate license** – this button is used for activating new license/s to use the program or special functions. Internet connection is required. Standard license is already activated for all interfaces before purchase.

**Upgrade firmware** – use this button to upgrade firmware in your diagnostic interface every time after installing the latest software version (available at [www.obdtester.com/downloads](http://www.obdtester.com/downloads)). Do not disconnect your interface during upgrading the firmware.

**Device Manager** – is used to finding out correct COM port number, or to reinstall drivers. Your device appears as “ELM-USB Interface (COMx)” under “Ports (COM & LPT)”.

**Bluetooth Manager** – is a preparation to upcoming bluetooth feature. The button is currently inactive.

## ***Protocol settings***

You can set various timings for each communication protocol. This is advanced feature used for example when problems occur with connection to control unit caused by slower ECU response and the like.

**Restore Defaults** – this button restores all modified timings of all protocols to default values.



Changing protocol settings is not required before normal use of the program. You will be asked to make changes by our tech. support when solving your issue at [support@secons.com](mailto:support@secons.com) if necessary.

## ***Debug functions***

By clicking on **Save Debug** button, you can capture the latest data from elapsed communication between control unit and program into one file. Providing this file is required only by our technical support. Based on these data, we are able to monitor the whole process of performed operation and its correctness.



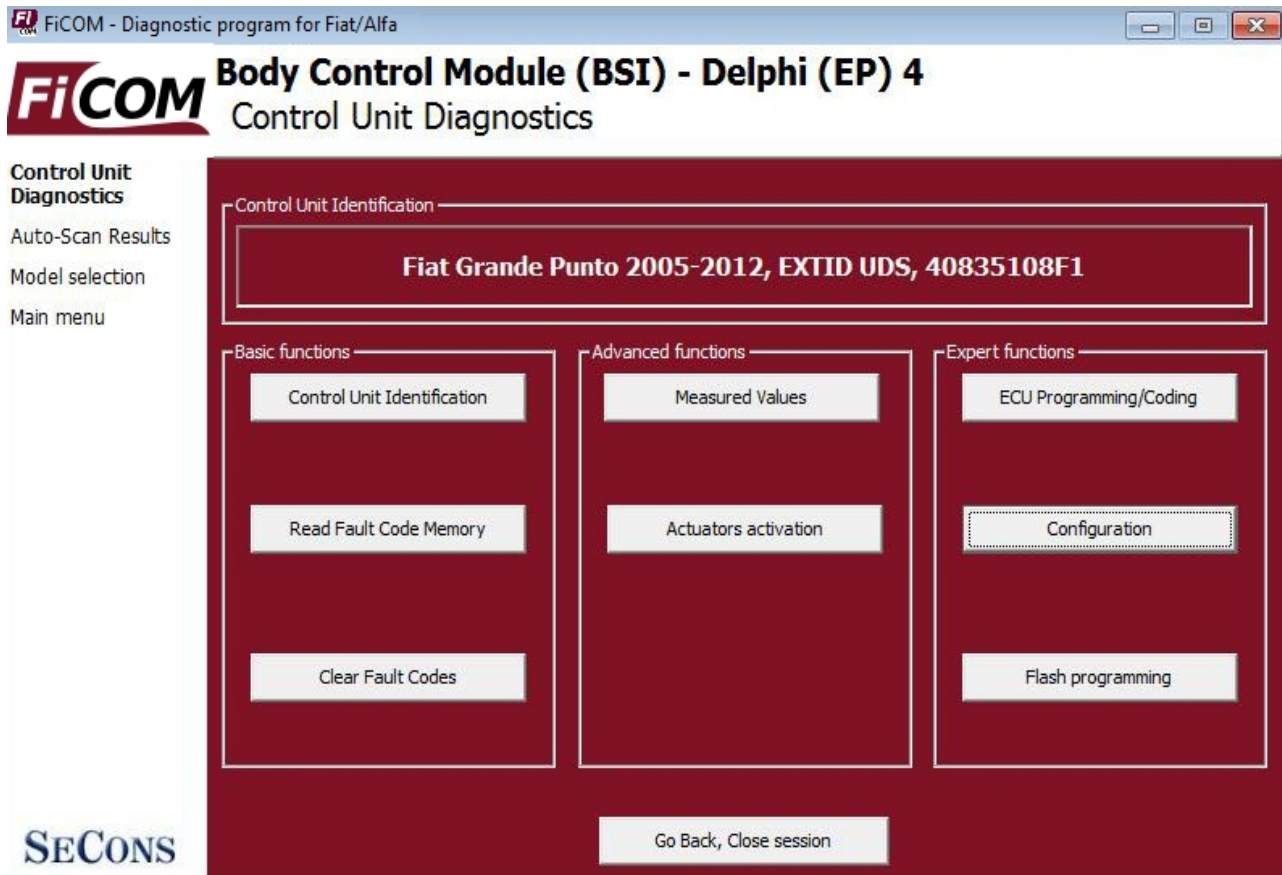
Use of debug function is important for successful resolution of any program failure or verifying its causes. For more information on how to proceed, please read the following chapter [#8.Reporting bugs and improvement requests](#).

## ***6.5 About***

After clicking on “About” button, you can read a license agreement or check application version.

## 7 Diagnostic functions

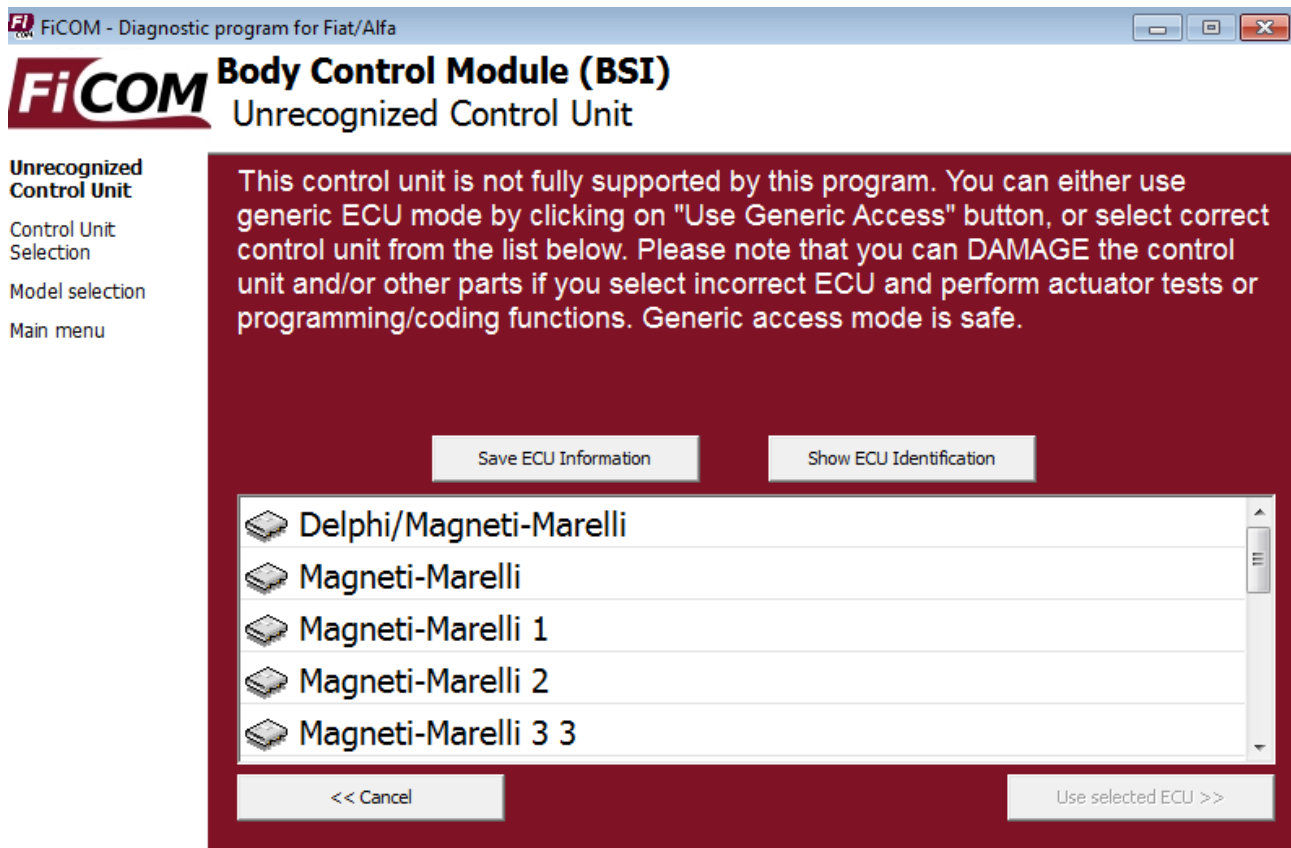
After connecting to chosen control unit, the following diagnostic menu is displayed. The diagnostic menu is divided into three parts. Basic functions, Advance functions and Expert functions.



If control unit was recognized, the diagnostic menu will be available immediately and you can use diagnostic functions. If control unit wasn't identified uniquely, you should study next chapter [Unrecognized Control Unit](#) before using diagnostic functions.

## 7.1 Unrecognized Control Unit

Fiat control units in exceptional cases do not return unique identification or FiCOM may not correctly identify the control unit. In such case it is necessary to choose right type of control unit from list. In this situation, you can either use generic ECU mode by clicking on *Use Generic Access* button, or select correct control unit from the list below. In Generic Access you can only read identification or work with fault code memory.



You can get more information about ECU by clicking on *Show ECU Identification* button.



- It is important to choose correct ECU for proper display of measured values.
- If you make a mistake in identification, you shouldn't perform any of programming functions.

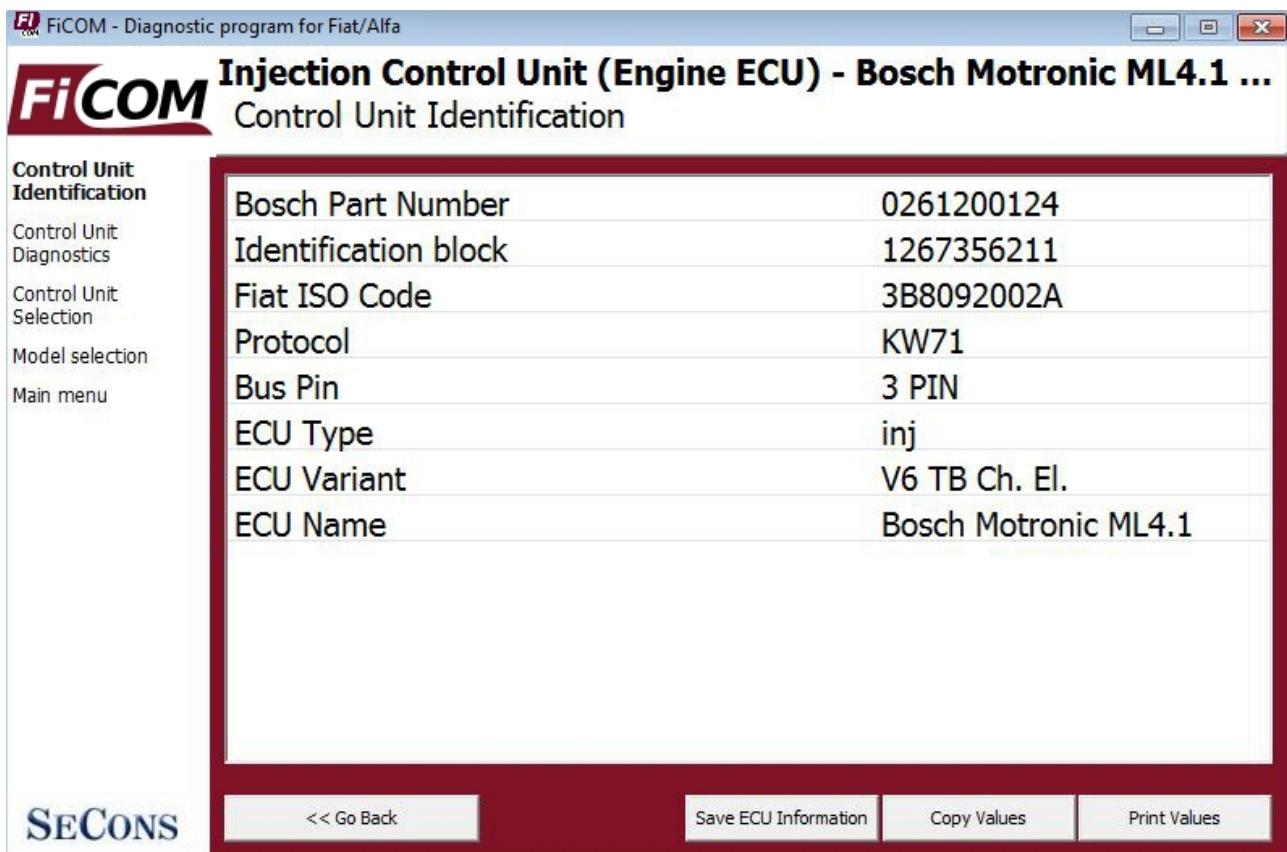
*Save ECU Information* function make possible to save all development information about ECU to a file. We asking users to send these files to us. We would like to add support to these ECUs to next version of FiCOM.

## 7.2 Control Unit Identification

This function can display only identification data accessed by ECU, for example:

- Identification data
- ECU part number
- serial number

Incomplete identification are very common mainly for older ECUs that do not provide full part number or VIN code.



The screenshot shows the FiCOM diagnostic program window. The title bar reads 'FiCOM - Diagnostic program for Fiat/Alfa'. The main window title is 'Injection Control Unit (Engine ECU) - Bosch Motronic ML4.1 ...'. Below the title, the text 'Control Unit Identification' is displayed. On the left side, there is a navigation menu with the following items: 'Control Unit Identification', 'Control Unit Diagnostics', 'Control Unit Selection', 'Model selection', and 'Main menu'. The main area of the window contains a table with the following data:

|                      |                      |
|----------------------|----------------------|
| Bosch Part Number    | 0261200124           |
| Identification block | 1267356211           |
| Fiat ISO Code        | 3B8092002A           |
| Protocol             | KW71                 |
| Bus Pin              | 3 PIN                |
| ECU Type             | inj                  |
| ECU Variant          | V6 TB Ch. El.        |
| ECU Name             | Bosch Motronic ML4.1 |

At the bottom of the window, there are four buttons: '<< Go Back', 'Save ECU Information', 'Copy Values', and 'Print Values'. The SECONS logo is visible in the bottom left corner.

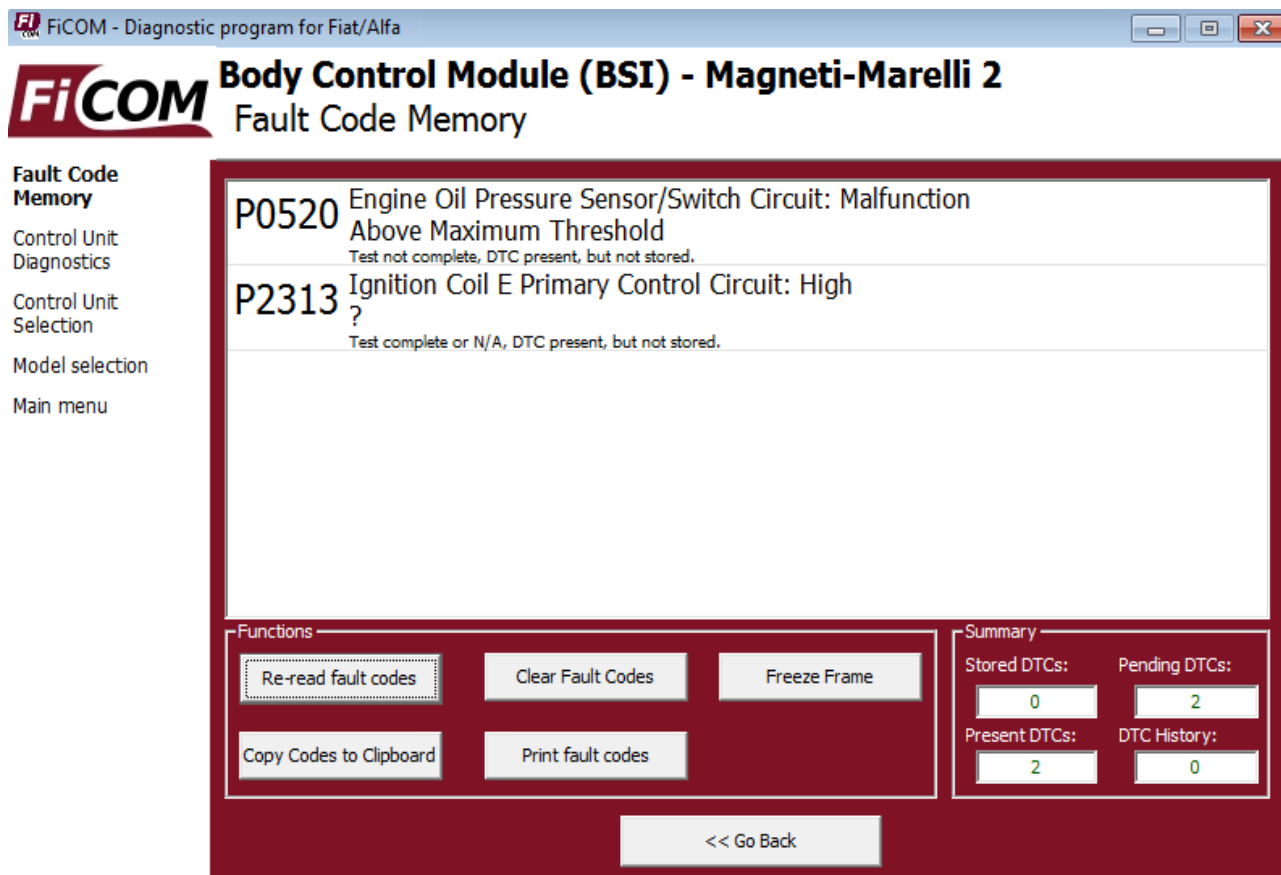
Each ECU should contain valid VIN code.

You can print identification by clicking on *Print Values* button or you can copy to clipboard by clicking on *Copy Values* button.

*Save ECU Information* button is used to save “ECU snapshot” of tested control unit, as mentioned in chapter “[#7.1.Unrecognized Control Unit](#)” or “[#8.Reporting bugs and improvement requests](#)”.

### 7.3 Read fault code memory

This function allows to read and display diagnostic trouble codes saved in memory of control unit (so called CMDTC).



### 7.4 Clear Fault Codes

This function clears fault codes stored in ECU memory.

Clearing memory isn't guaranteed. Fault codes might appear again or under some conditions isn't possible to clear fault codes at all. It is possible that in the presence of some faults the control unit doesn't allow to clear fault codes or fault is in no time written back to memory.

It is recommended to read memory by clicking on *Re-read fault codes* button again.

## 7.5 Freeze Frame

*Freeze Frame* function combines the reading fault codes and displaying measured values function. It displays the measured parameters assigned to fault code.

The screenshot shows the FiCOM diagnostic program window. The title bar reads "FiCOM - Diagnostic program for Fiat/Alfa". The main window title is "Injection Control Unit (Engine ECU) - Magneti-Marelli IAW 5...". Below the title, the "Freeze Frame" section is active. On the left, a navigation menu includes "Freeze Frame", "Fault Code Memory", "Control Unit Diagnostics", "Control Unit Selection", "Model selection", and "Main menu". The main area displays a table of measured parameters:

|                          |                   |
|--------------------------|-------------------|
| Fault presence time      | 41.000000 Minutes |
| Time elapsed with MIL ON | 0.000000 sec.     |
| Startups counter         | 215.000000        |
| Engine speed             | 0.000000 rpm      |
| Accelerator position     | 0.000000 %        |
| Water temperature        | 50.000000 'C      |
| Intake pressure          | 962.000000 mbar   |
| Spark advance            | 14.900000 '       |

At the bottom of the window, there are three buttons: "<< Go Back", "Copy Values", and "Print Values". The SECONS logo is visible in the bottom left corner of the application window.

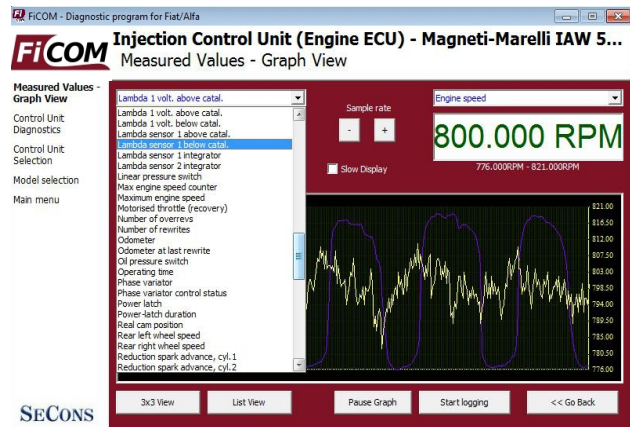


## 7.6 Measured values

### 7.6.1 Graph display

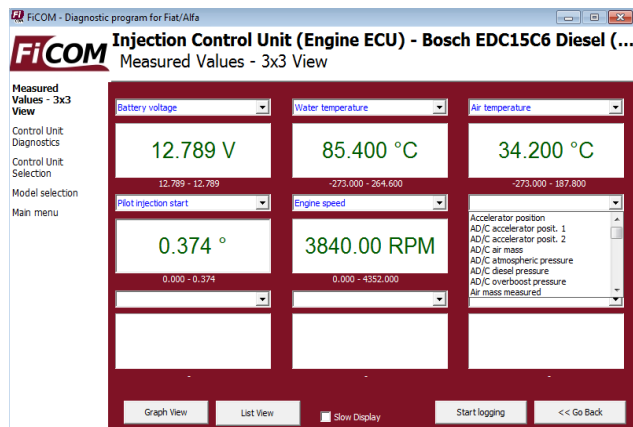
This function displays two measured values (also known as live data or sensor values) simultaneously. Measured parameters can be chosen from selectors at the top of the window.

Buttons + and – allow to accelerate or decelerate speed of graph.



### 7.6.2 Display 3x3

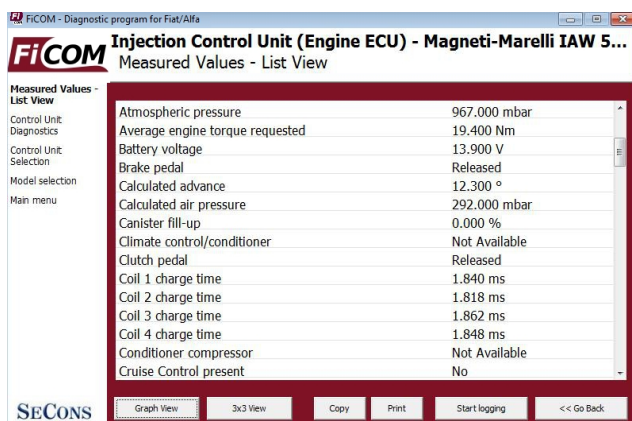
For measuring 9 value simultaneously, click on 3x3 View button.



### 7.6.3 Display list

To measure all available values simultaneously, click on List view button.

Please note values means slower refresh rate.

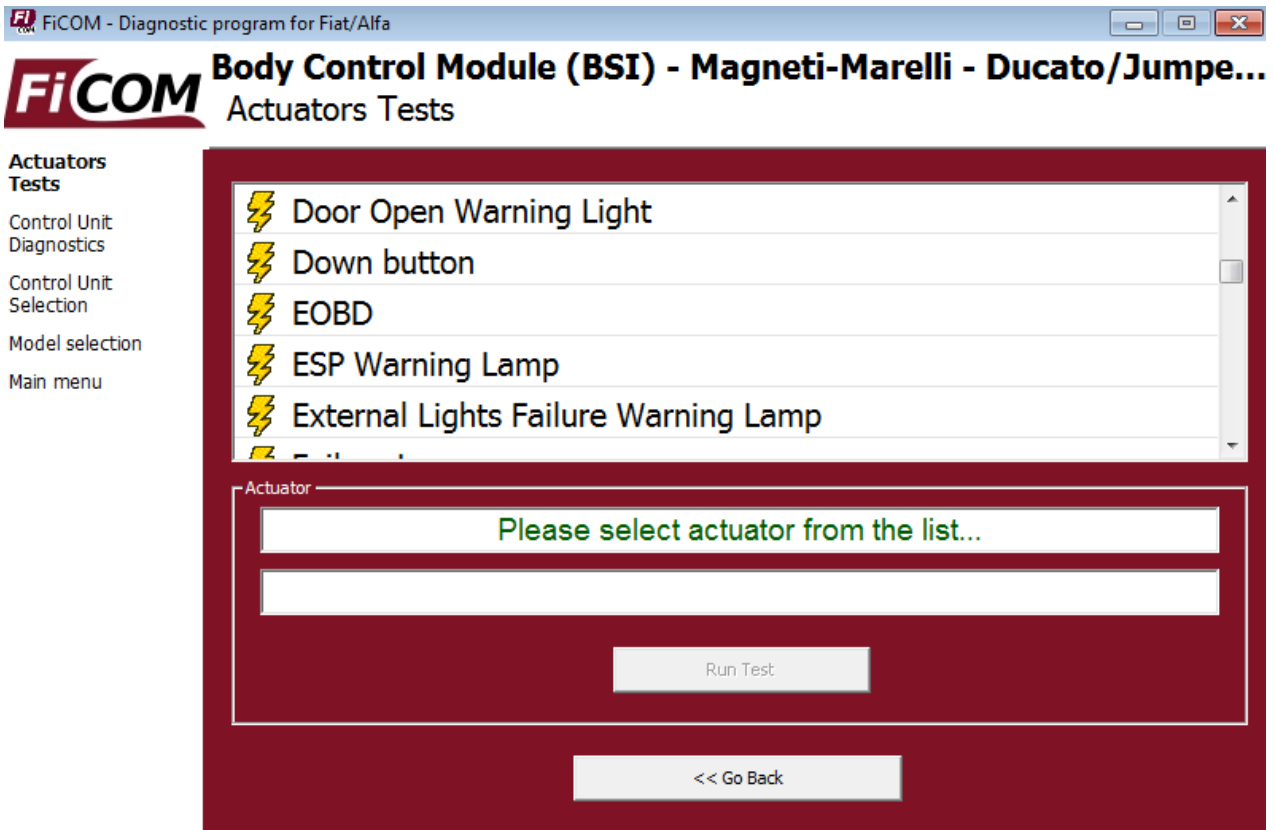


### 7.6.4 Save to log

Measured values can be saved/logged to a file by clicking on Start logging button. The log file is standard csv file and it is compatible with VagScope or can be imported to Microsoft Excel or OpenOffice Calc.

### 7.7 Actuators activation

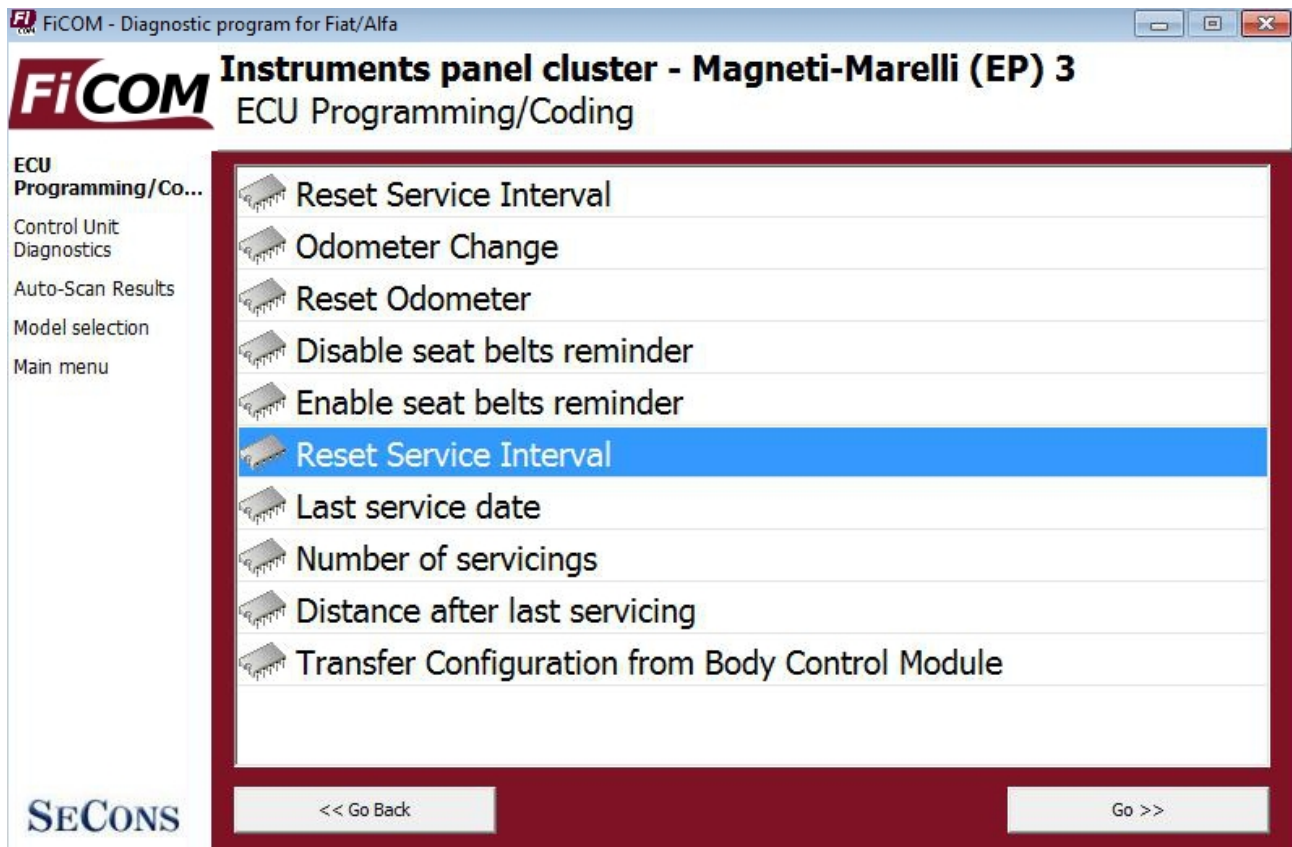
This function can activate actuators and perform some actuators actions.



### 7.8 ECU Programming/Coding functions

This feature allows to run coding functions. Note that some of the coding functions can not be run when the engine is running and vice versa (some coding functions can not be run unless the engine is running).

More information about coding functions is available at [www.obdtester.com/downloads](http://www.obdtester.com/downloads)



## 7.9 ECU Configuration

**FiCOM** Body Control Module (BSI) - Magneti-Marelli 6  
Control Unit Configuration

Control Unit Configuration  
Control Unit Diagnostics  
Control Unit Selection  
Model selection  
Main menu

|  |                  |
|--|------------------|
| Row 2 central seat belt pre-tensioner    | no pre-tensioner |
| Driver seat belt switch                  | Present          |
| Passenger seat belt switch               | Absent           |
| Row 2 left and right seat belt switch    | Absent           |
| Row 2 central seat belt switch           | Absent           |
| Passenger presence sensor                | Yes              |
| Row 1 central passenger presence sensor  | No               |
| Type of row 1 passenger presence sensors | weight sensors   |
| Row 2 rear passengers presence sensor    | Absent           |
| Type of row 2 passenger presence sensors | weight sensors   |
| Vehicle tracking                         | 1796.000000 mm   |
| USB socket presence                      | Absent           |

SECONS

## 8 Reporting bugs and improvement requests

Our customers can take advantage of our full technical support for free. In case you have any difficulties with using FiCOM, do not hesitate to contact us directly at [support@secons.com](mailto:support@secons.com) or through your distributor.

Please read carefully this chapter in order to provide us with all information so as we can resolve your problem quickly.

Note:

Before sending support request for failing operation, please make sure you have met all conditions required for the operation (e.g. you are entering correct data, correct engine temperature for DPF regeneration, correct number of keys for engine start, etc).

In case of communication issues we recommend to check diagnostic plug connection and retry procedure at least once, connection problems may result in erratic communication issues.

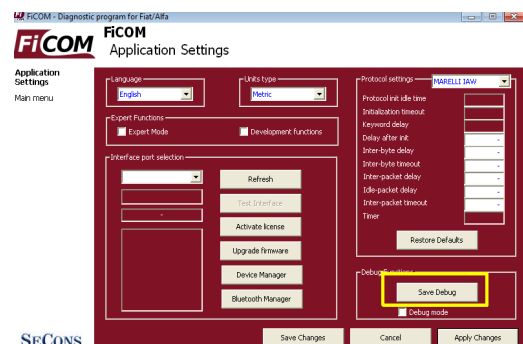
**In case you encounter to failure of any program functions (e.g. fault codes reading/clearing, coding functions, actuator tests, connecting to ECU ...), or you're missing some function or some function does not work sufficiently, please prepare the following data in your email before sending your request to our technical support:**

1. Detailed description of failure or your improvement request
2. Vehicle description - VIN code, model, manufacture year, engine type
3. Attach **Debug Log** (in case that required function doesn't work properly). This file captures data from the latest communication between program and ECU, so we can detect failure causes.
4. Attach **Snapshot** of tested ECU – this file contains important information about tested control unit.



### 8.1 How to create Debug Log

It is necessary to perform operation that is not working correctly first. Once failure occurs, go back directly to settings in main menu (do not close the program). Click on “Save Debug” button. Name and save the file into well known directory in your computer.



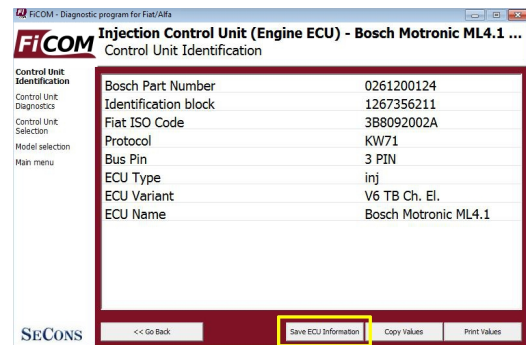
Enable “Debug mode” check box only at our special request.

*This function is used to tell program enable special functions in diagnostics interface and to log more data than required for normal operation.*



## 8.2 How to create ecu Snapshot

After connection to related control unit, click on “Control Unit Identification”. In the following window click on “Save ECU Information” button. Choose a directory to save the file and confirm. Saving may take a few minutes.



Please send all support requests along with required data attached to [support@secons.com](mailto:support@secons.com). Your case will be assigned with unique ticket number in order to communicate efficiently with you.

*Also feel free to contact us with any suggestions for improvements in the software on the same e-mail address. Your feedback is greatly appreciated.*

## **9 Known problems**

- Missing support for EDC15C7 injector classification coding will be available as a free update.