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

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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 <u>support@secons.com</u>. 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 <u>www.obdtester.com/downloads</u>. 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* \rightarrow *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

Installer	Language	X
1 ²⁰	Please select the language of the insta	ller
	English	~
	OK Cance	:

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

🖑 SECONS FiCom - Fia	t Diagnostic Tool Setup: Installation Folder 📃 🗖 🔯
The second se	Setup will install SECONS FICom - Fiat Diagnostic Tool in the following folder. To install in a different folder, click Browse and select another folder. Click Install to start the installation.
De	estination Folder
	C:\Program Files\FiCom Browse
Space	ce required: 3.4MB
Space	te available: 11.3GB
	Cancel Nullsoft Install System v2.45

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

6

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
- The diagnostic application runs under Wine which must be installed on the system. For more information see <u>www.WineHQ.org</u>
- 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.



- 2. Add users who need to access the diagnostic interface to the 'dialout' group. Type "sudo usermod -a -G dialout username" (replace 'username' with you 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.)



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



- 7. Save settings and you should be ready to go.
- 8. 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
А	L-Line ISO9141
В	Chassis (ground)
С	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 <u>www.obdtester.com/obd2_adapters</u> 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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16



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 (<u>www.obdtester.com/psacom</u>) 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 <u>Settings</u>). Connect your FiCOM diagnostic interface to OBD-II connector in the vehicle. You can find the OBD-II connector using FiCOM <u>OBD-II</u>. <u>Connector Location</u> image database.



6 FiCOM main menu

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

FiCOM - Diagnostic	program for Fiat/Alfa FiCOM Main menu	
Main menu	Vehide Diagnostics Select Control Unit Auto-scan OBD-II Connector Location	FiCOM 0.2.9916 Copyright (c) 2005-2012 SECONS s.r.o. Licensed material. All rights reserved. www.secons.com, www.obdtester.com/ficom
SECONS	Miscellaneous functions Settings About Exit	

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 <u>Auto-scan</u> function.

FiCOM - Diagnosti	c program for Fiat/Alfa FiCOM Model selection	• •	RECOM - Diagnostic program for Flat/Alfa FicCOM Fiat 500 2007-2012 Control Unit Selection	
Model selection Main menu	Abarth Albea Alfa Citroen Dodge Ferrari Fiat Ford Hymer Innocenti Iveco	Grande Punto 2005-2012 Idea 2003-2011 Linea 2007-2011 Marea 1996-1998 Marea 1999-2007 Multipla Palio Palio 2008-2011 Palio FLP Palio RST Palio RST Palio RST 2 Padio 1001 2002	Control Unit Section Hodel selection Hain menu Nain Conditioning Nain Conditioning Nain Menu Nain Menu	
SECONS	<< Go Back La	st selection Go >>	<< Go Back	Go >>

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

In other case, you should study chapter <u>Unrecognized Control Unit</u> 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.

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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.

selection	Control Unit	DTC Cou
nenu	🗇 Airbag - CONTINENTAL (EP)	0
	ABS/ESP Stabilization/Brake System - Bosch ABS 8 ESP (EP)	0
	Sody Control Module (BSI) - Delphi (EP) 4	0
	🛇 Injection Control Unit (Engine ECU) - Magneti-Marelli IAW 55	SF9 0
	🗇 Instruments panel cluster - Magneti-Marelli (EP) 3	0
	Selectronic Power Steering - DELPHI (EP) 3	1
Contra	<< Go Back Print report Copy to dipboard Con	nect >>

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.

FiCOM - Diagnosti	Cprogram for Flat/Alfa Data Link Connector Location Find DLC	- • •	Ricom - Diagnostic	program for Flat/Alfa Fiat Ducato 2006-2011 DLC Image	
Find DLC Main menu	Choose a car from this tree to view OBD-II connector locati Alfa Romeo Citroen Fiat 500 2007-2011 500L 2013 Brava 1996 AIRBAG 3pin Brava 1996 INJ 3pin Cinquecento 3pin Doblo' 2004	on E	DLC Image Find DLC Main menu	The picture shows faction of OBD-II connector in the selected vehicle	i
SECONS	 ✓ Ducato 2001 ➡ Ducato 2006-2011 Go Beck 		SECONS	Go Back	



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

<u>Development functions</u> - 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.

<u>Expert mode</u> – 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 <u>www.obdtester.com/downloads</u>). 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 <u>support@secons.com</u> 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 <u>#8.Reporting bugs and improvement requests</u>.

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 <u>Unrecognized Control Unit</u> 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.

	program for Fiat/Alfa Body Control Unrecognized	Module (BSI) Control Unit		
Unrecognized Control Unit Control Unit Selection Model selection Main menu	This control un generic ECU m control unit fror unit and/or othe programming/c	it is not fully supporten ode by clicking on "L n the list below. Plea er parts if you select i oding functions. Gen	ed by this program. You Jse Generic Access" bu se note that you can D, incorrect ECU and perf eric access mode is sa	can either use tton, or select correct AMAGE the control orm actuator tests or fe.
		Save ECU Information	Show ECU Identification	
	 Delphi/Ma Magneti-I Magneti-I Magneti-I Magneti-I Magneti-I 	agneti-Marelli Marelli Marelli 1 Marelli 2 Marelli 3 3		
	<< Cancel			Use selected ECU >>

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.

ion	Bosch Part Number		0261200124	
	Identification block		1267356211	
	Fiat ISO Code		3B8092002A	
tion	Protocol		KW71	
	Bus Pin		3 PIN	
	ECU Type		inj	
	ECU Variant		V6 TB Ch. El.	
	ECU Name		Bosch Motron	ic ML4.1
ONS	<< Go Back	Save ECU Information	Copy Values	Print Value

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 "<u>#7.1.Unrecognized Control Unit</u>" or "<u>#8.Reporting bugs and improvement requests</u>".



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).

🖳 FiCOM - Diagnostic	program for Fiat/Alfa 📃 📼 💌
FiCOM	Body Control Module (BSI) - Magneti-Marelli 2 Fault Code Memory
Fault Code Memory Control Unit Diagnostics Control Unit Selection Model selection Main menu	P0520 Engine Oil Pressure Sensor/Switch Circuit: Malfunction Above Maximum Threshold Test not complete, DTC present, but not stored. P2313 Ignition Coil E Primary Control Circuit: High ? Test complete or N/A, DTC present, but not stored.
	Functions Clear Fault Codes Freeze Frame Stored DTCs: Pending DTCs: Copy Codes to Clipboard Print fault codes Print fault codes DTC History: 2 Q Q Q Q Q Q Present DTCs: DTC History: Q Q Q Q Q Q Q Q Q Present DTCs: DTC History: Q Q Q Q
	<< Go Back

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.

eze Frame		
ult Code Memory	Fault presence time	41.000000 Minutes
ntrol Unit	Time elapsed with MIL ON	0.000000 sec.
ntrol Unit	Startups counter	215.000000
lection	Engine speed	0.000000 rpm
del selection	Accelerator position	0.000000 %
in menu	Water temperature	50.000000 'C
	Intake pressure	962.000000 mbar
	Spark advance	14.900000 '



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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.

leasured Values			
ontrol Unit	Atmospheric pressure	967.000 mbar	
iagnostics	Average engine torque requested	19.400 Nm	
ontrol Unit	Battery voltage	13.900 V	
election	Brake pedal	Released	
lodel selection	Calculated advance	12.300 °	
ain menu	Calculated air pressure	292.000 mbar	
	Canister fill-up	0.000 %	
	Climate control/conditioner	Not Available	
	Clutch pedal	Released	
	Coil 1 charge time	1.840 ms	
	Coil 2 charge time	1.818 ms	
	Coil 3 charge time	1.862 ms	
	Coil 4 charge time	1.848 ms	
	Conditioner compressor	Not Available	
	Cruise Control present	No	

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.

RECOM - Diagnostic program for Fiat/Alfa



7.7 Actuators activation

This function can activate actuators and perform some actuators actions.

🖳 FiCOM - Diagnostic	program for Fiat/Alfa 📃 📃 🖃	3
FiCOM	Body Control Module (BSI) - Magneti-Marelli - Ducato/Jumpe. Actuators Tests	•••
Actuators Tests Control Unit Diagnostics Control Unit Selection	 Door Open Warning Light Down button EOBD 	
Model selection Main menu	ESP Warning Lamp External Lights Failure Warning Lamp Actuator	
	Please select actuator from the list Run Test	
	<< Go Back	



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 <u>www.obdtester.com/downloads</u>





7.9 ECU Configuration

🖳 FiCOM - Diagnostic	program for Fiat/Alfa					- • ×
FICOM	Body Contro Control Unit	l Module Configura	e (BSI) - N ation	lagneti-	Marelli 6	
Control Unit Configuration	Daw 2 control	l aaat kali				
Control Unit	Row 2 centra	i seat bei	t pre-tensio	oner	no pre-to	ensioner —
Diagnostics	Driver seat b	elt switch			Present	
Control Unit Selection	Passenger se	at belt sw	vitch		Absent	
Model selection	Row 2 left and right seat belt switch			Absent		
Main menu	Row 2 centra	l seat beli	t switch		Absent	
	Passenger pr	esence se	nsor		Yes	
	Row 1 centra	l passeng	er presence	e sensor	No	
	Type of row	1 passeng	er presence	e sensors	weight s	ensors
	Row 2 rear p	assengers	presence s	sensor	Absent	
	Type of row 2	2 passeng	er presence	e sensors	weight s	ensors
	Vehicle track	ing			1796.00	0000 mm
					A hears	_
		Edit	Hex Edit	Revert to or	iginal Undo	All Changes
SECONS	<< Go Back	Load from file	Save to file	Сору	Print	Write configuration to ECU



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 <u>support@secons.com</u> 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.

	Bosch Part Number	0261200124		
1	Identification block	1267356211		
	Fiat ISO Code	3B8092002A		
tion	Protocol	KW71		
COUT	Bus Pin	3 PIN		
	ECU Type	inj		
	ECU Variant	V6 TB Ch. El.		
	ECU Name	Bosch Motronic ML4.1		
	cr forBart	Sau Fri Infernation Crow Values Brit Valu		

Please send all support requests along with required data attached to <u>support@secons.com</u>. 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.