

HiCOM

User manual



www.obdtester.com/hicom

HiCOM - Diagnostic program for Hyundai/Kia

HiCOM Main menu

Vehicle Diagnostics

- Select Control Unit
- Auto-scan
- Special Diagnostics
- OBD-II Connector Location

Miscellaneous functions

- Settings
- About
- Exit

HiCOM 0.1.4875

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Hyundai Tucson 2011 LM

Select ECU

- PCM - Engine ECU
- AIRBAG - SRS System
- 4WD - Four wheel drive
- AIRCON - Air Conditioning
- BCM - Body Control Module
- CODE - Transmitter Code
- EPS - Electronic Power Steering
- ESP - Electronic Stability Program
- IMMO - Immobiliser
- PDM - Power Distribution Module
- SJB - Smart Junction Box
- CMK - Smart Key Unit

Signal Position Sensor-2: 0.000 mV

Graph: 0.000 - 0.000

3x3 View List View Pause Graph Start logging << Go Back

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

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1 Introduction

Thank you for purchasing the HiCOM diagnostic interface and software. HiCOM is professional tool for diagnostics of Hyundai and Kia 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. We're here to help!

1.1 Key features

- Fully multiplexed all-in-one smart USB2.0 interface
- Automatic ECU recognition
- Automatic vehicle scan
- ECU Identification
- Fault code (DTC) reading
- Fault code clearing
- Measured values / live data
- Live data recording
- Diagnostic protocol printing
- Actuator tests

The HiCOM system works with Hyundai and Kia vehicles.

List of supported vehicles and control units including diagnosis capability can be found at <http://www.obdtester.com/hicom-eculist>

1.2 Software updates

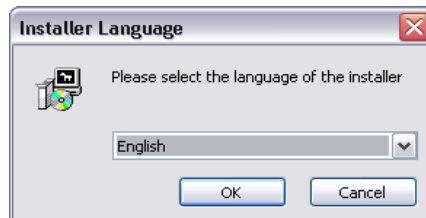
Updates of purchased software version are available for free download at www.obdtester.com/downloads. User name = serial number of HiCOM diagnostic interface. Password leave blank. The serial number can be found on a silver label of the interface or in settings of HiCOM after performing “Test interface”. 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.

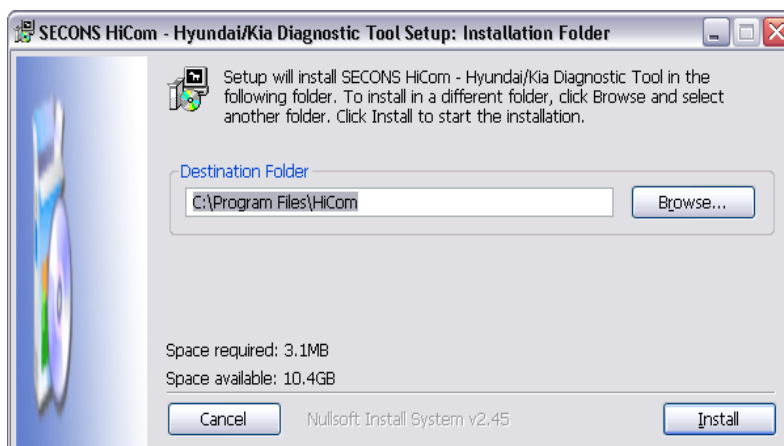
2 HiCOM software and driver installation

2.1 Microsoft Windows operating System

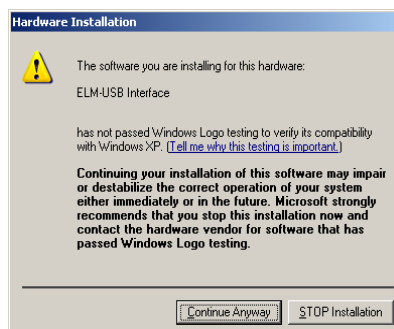
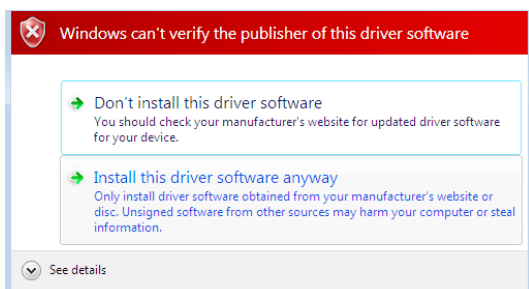
1. Insert HiCOM installation CD to your CD-ROM drive
2. Run installation file HiComSetup.exe
3. Choose language for the installer



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



HiCOM drivers are automatically updated during the HiCOM 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 HiCOM to USB port. Driver installation isn't required for operation on GNU/Linux system.

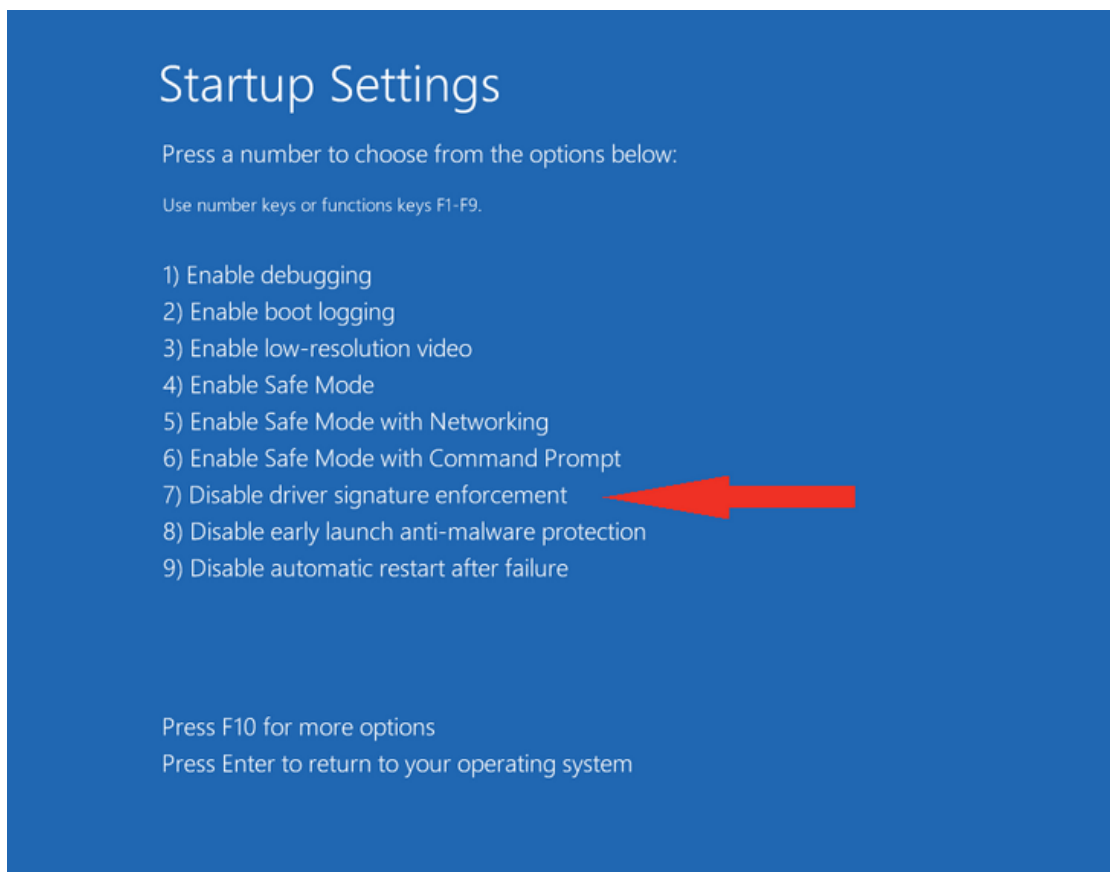
2.2 Microsoft Windows 8 driver installation

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 Interface busy issue [Microsoft Windows]

In case you receive error “Interface busy” while testing your interface, please make sure:

1. You're not running any modem, mobile phone, or printer monitoring application that blocks “COM ports” from being used by other applications.
2. You're not running Hella Gutmann software on the same PC. Process called “GMPortal.exe” prevents SECONS diagnostic applications from properly accessing the diagnostic interface. You may temporarily resolve this problem by running “Windows Task Manager”, right-clicking on GMPortal.exe process in “Processes” tab and selecting “End process”.
3. Software modem drivers do not block COM ports.
4. You have selected correct COM port (use “Device manager” button to find port number under “Ports (COM & LPT)” group).

2.4 GNU/Linux System

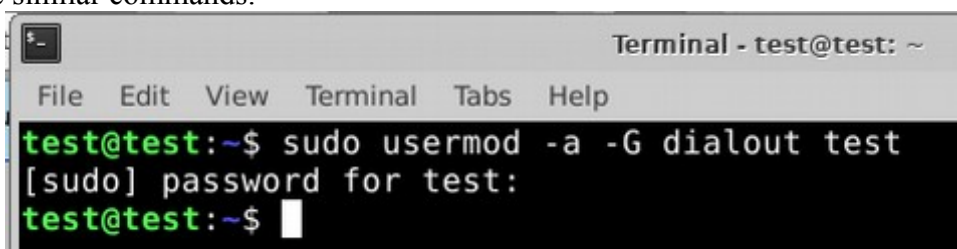
Our diagnostic application are tested to work under Linux. The applications can be run under Linux, BSD or Apple OS/X on Intel x86 using Wine environment. The installer and applications perform fully automated installation under these operating system.

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 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.

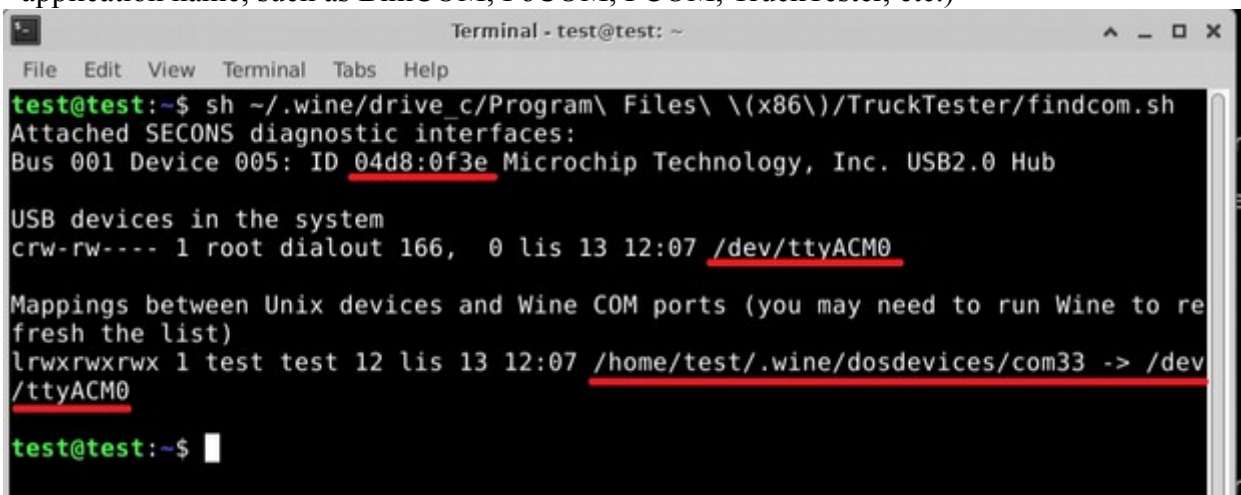
Installation procedure:

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 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.)



```

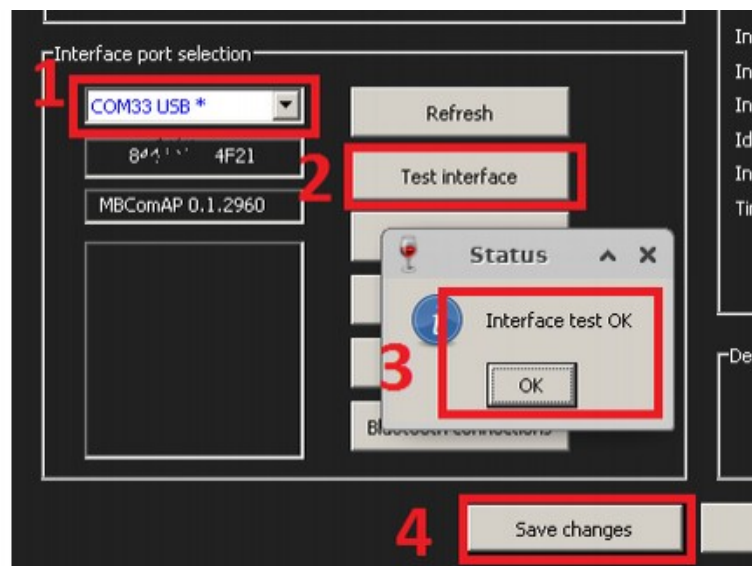
Terminal - test@test: ~
File Edit View Terminal Tabs Help
test@test:~$ sh ~/.wine/drive_c/Program\ Files\ \ (x86\)/TruckTester/findcom.sh
Attached SECONS diagnostic interfaces:
Bus 001 Device 005: ID 04d8:0f3e Microchip Technology, Inc. USB2.0 Hub

USB devices in the system
crw-rw---- 1 root dialout 166, 0 lis 13 12:07 /dev/ttyACM0

Mappings between Unix devices and Wine COM ports (you may need to run Wine to re
fresh the list)
lrwxrwxrwx 1 test test 12 lis 13 12:07 /home/test/.wine/dosdevices/com33 -> /dev
/ttyACM0
test@test:~$

```

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.

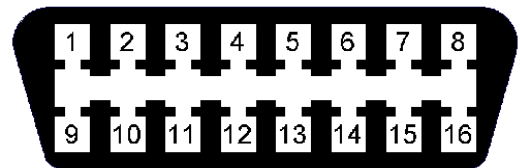
3 Diagnostic connectors used in Hyundai/Kia vehicles

Location of OBD-II and manufacturer-specific (OBD-I) connectors is available in DLC location database available from the HiCOM main menu.

3.1 OBD-II

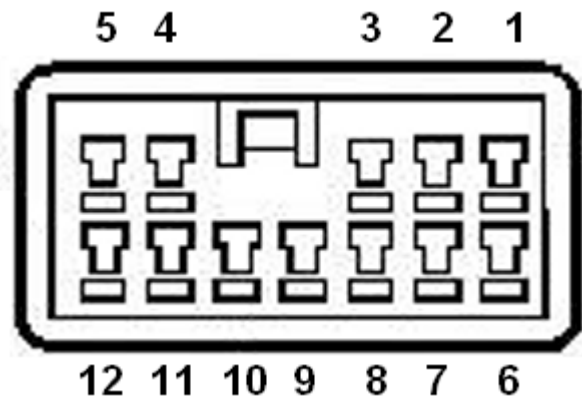
Standard OBD2 connector is used usually since 1996 models to present (please note that some models manufactured after 1996 still may use 12 or 20pin connector).

-	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
HS CAN High	6	14	HS CAN Low
ISO9141 K Line	7	15	ISO9141 L-Line
ISO9141 K Line	8	16	Battery voltage



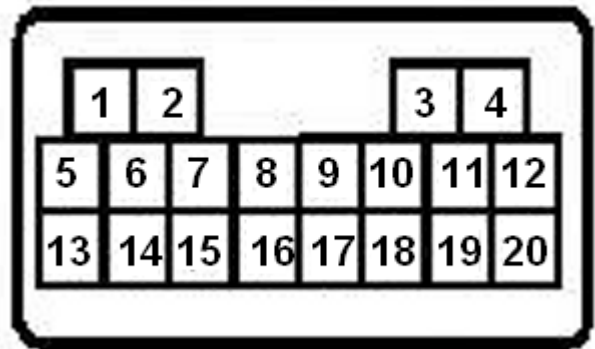
3.2 Hyundai 12-pin connector

Pin	Description
1	Engine K-Line
2	Airbag K-Line
4	ABS K-Line
6	Gearbox K-Line
10	Engine L-Line
11	Speed signal
12	Ground (Battery-)



3.3 Kia 20-pin connector

Pin	Description
1	Power after fuel pump
2	Cooling fan signal
3	Engine rotation speed / ignition signal
4	Ground
5	Battery positive voltage
6	
7	Initial ignition management (coil 2)
8	ABS L-Line
9	Engine K-Line
10	Automatic transmission failure code
11	Blink code / Check Engine indicator
12	Ground
13	
14	Airbag K-Line
15	ABS K-Line
16	Initial ignition management (coil 1)
17	Cruise-control K-Line
18	Automatic transmission L-Line
19	Engine L-Line
20	Engine monitor output



4 Information about Hyundai/Kia control units

ECUs are usually identified and distinguished by:

- Territory (e.g. MEX=Mexico, India, Turkey, etc.)
- Selected features (e.g. ISG+, CPF-, etc.)
- Engine type (Leaded, Unleaded EOBD, Unleaded ALL, ...)
- Installation date range (e.g. 2009/05/01-, ...)

Feature list

Feature	Meaning
CPF	Diesel particulate filter
ISG	Idle Stop and Go
ESP	Electronic stabilization system
ETC	

Engine type examples

Type example	Description
ENGINE Leaded	Leaded gasoline engine
ENGINE Unleaded OBD-II	Unleaded gasoline engine, OBD2 compliant
ENGINE Unleaded EOBD	Unleaded gasoline engine, European OBD2 compliant
ENGINE Unleaded MEX	Unleaded gasoline engine, Mexico market

ECUs do not have capability of self-identification and if multiple choices are possible, user must select proper control unit.

4.1 Hyundai ECU naming terminology

PCM	Engine ECU control unit
IMMO	Immobilizer control unit
AT	Automatic Transaxle
SMARTRA	Smart Transponder Antenna
SMK	Smart key unit
IPM	Instrument Panel Module
BCM	Body Control Module

4.2 Communication protocol

HiCOM supports these communication protocols:

Protocol	Diagnostic bus	Production	Usage
KW71 (Bosch)	ISO9141	1991 – 2001	Engine
ISO9141	ISO9141	1996 – present	Engine, ABS, Airbag
KWP2000,	ISO9141	1996 – present	All systems
ISO15765	CAN-BUS (ISO 11898)	2005 – present	All systems
UDS (ISO 14229)	CAN-BUS (ISO 11898)	2011 – present	All systems

5 Preparation to diagnose

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

6 HiCOM main menu

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

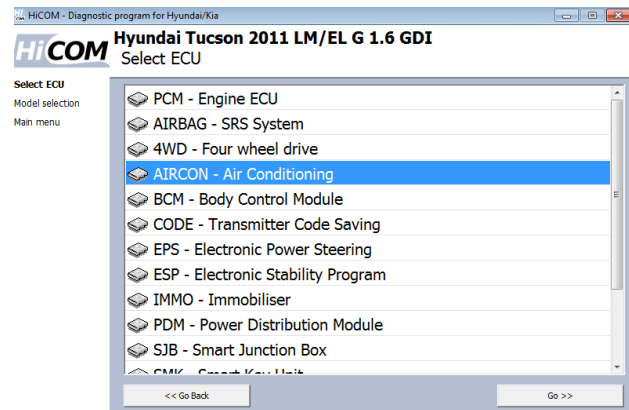
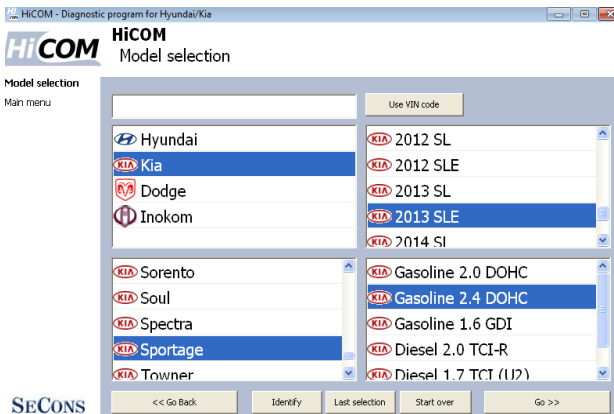


6.1 Select Control Unit

Using this function you can connect to a specific control unit you wish to diagnose. You can choose the control unit after exact selection of tested vehicle. Correct model year and model code selection is essential for proper diagnostic functions.

We recommend to always try to identify vehicle based on VIN code.

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



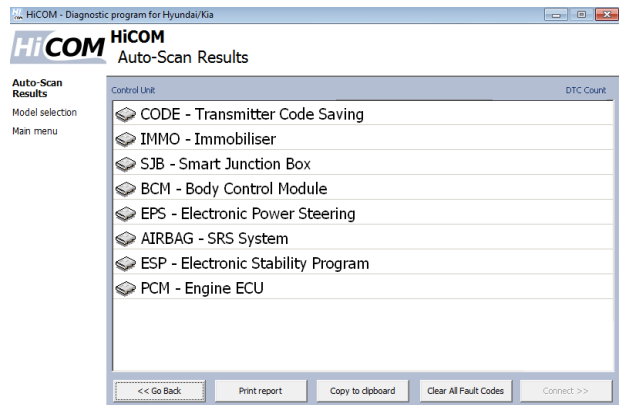
Incorrect model selection may result in wrong or incomplete live data, improper function of actuator tests and coding functions, possibly resulting in damaged car components.

6.2 Auto-scan

This function scans for all known ECUs in selected vehicle, and shows the list of ECUs present in vehicle along with number of present or stored fault codes (DTCs).

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

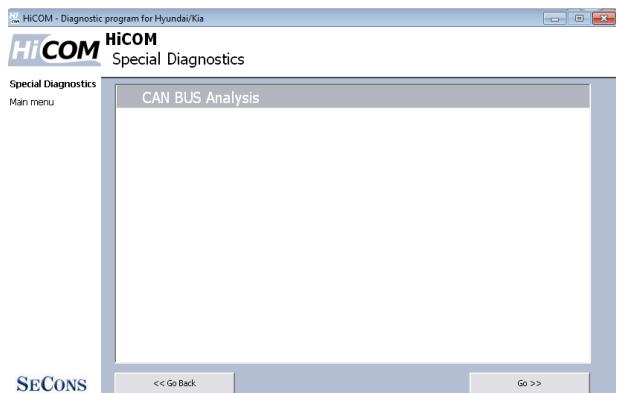
Some ECU types are “shared”, which means that one ECU is performing two functions (e.g. ENGINE has also immobilizer function). In that case both ECU types return same fault codes.



6.3 Special Diagnostics

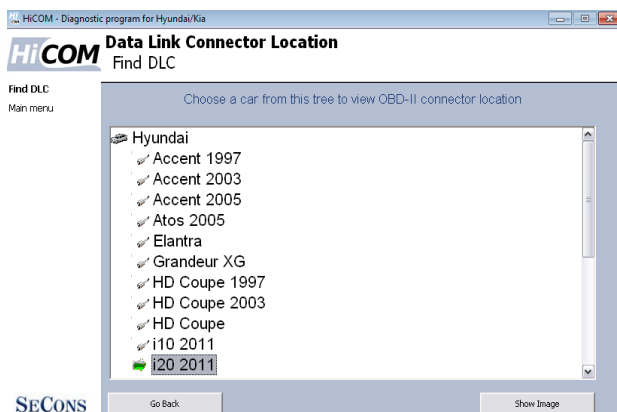
You can find here menu of special diagnostic functions.

CAN BUS Analysis functions is described in our manual “CAN-BUS analysis information” available at obdtester.com/downloads.



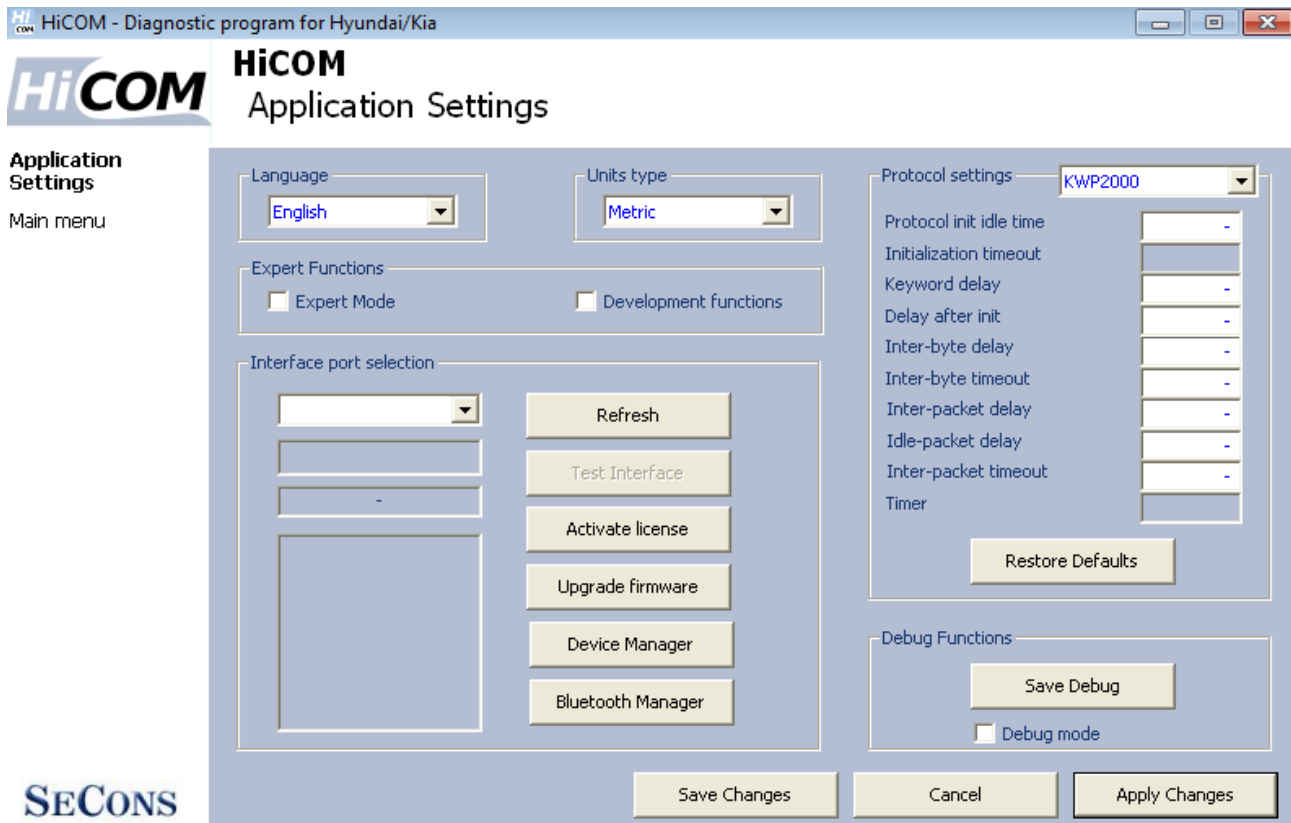
6.4 OBD-II Connector Location

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



6.5 Settings

All functions in settings are described below.



Language

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

Units type

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

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). 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 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.



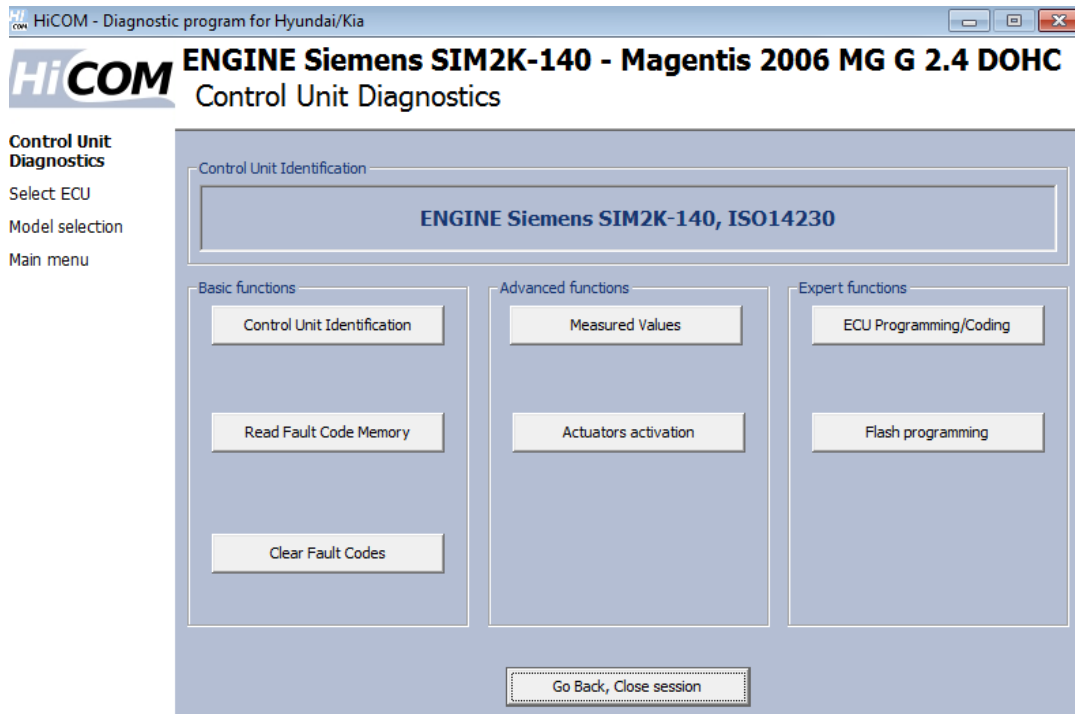
Use of debug function is important for successful resolution of any program failure or verifying its causes. For more information on how to proceed, please read the following chapter [#8.Reporting bugs and improvement requests](#).

6.6 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 identified uniquely, diagnostic menu will be available immediately, otherwise it is necessary to select control unit variant as described in next chapter [Unrecognized Control Unit](#)

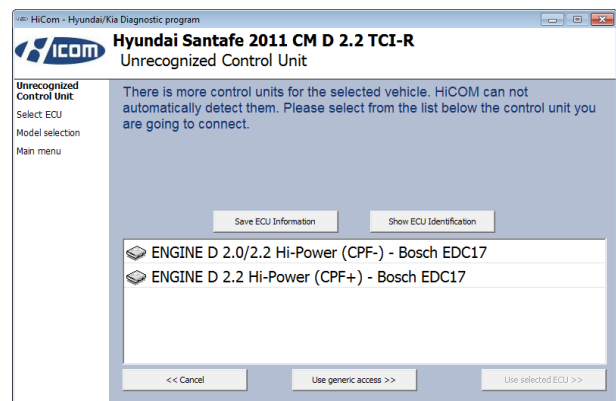
7.1 Unrecognized Control Unit

In a case of more ECU variants are applicable for selected ECU type, the following screen is displayed and user must select correct ECU variant.

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



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



7.2 Control Unit Identification

Works only on selected ECUs, mainly engine control modules. Other control units usually do not support identification functions.

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

- Identification data
- ECU part number
- serial number



Please note that many vehicles do not have programmed VIN code or other data (such as programming date/etc).

HiCOM - Diagnostic program for Hyundai/Kia

HiCOM ENGINE Siemens SIM2K-140 - Magentis 2006 MG G 2.4 DOHC
Control Unit Identification

Kalibrace opravny/Seriové číslo testeru
Calibration Programming Date	1515151515151515
VIN Code	KNAGE123365035007
HME Hardware number
Repair shop code/tester name
Programming date	1515151515151515
ECU bootloader number	65778852_C16
ECU software number	6577885135--
Calibration number	G6C4MK1A
Unknown 8F	671K1010
HME Hardware number

Control Unit Identification
Control Unit Diagnostics
Select ECU
Model selection
Main menu

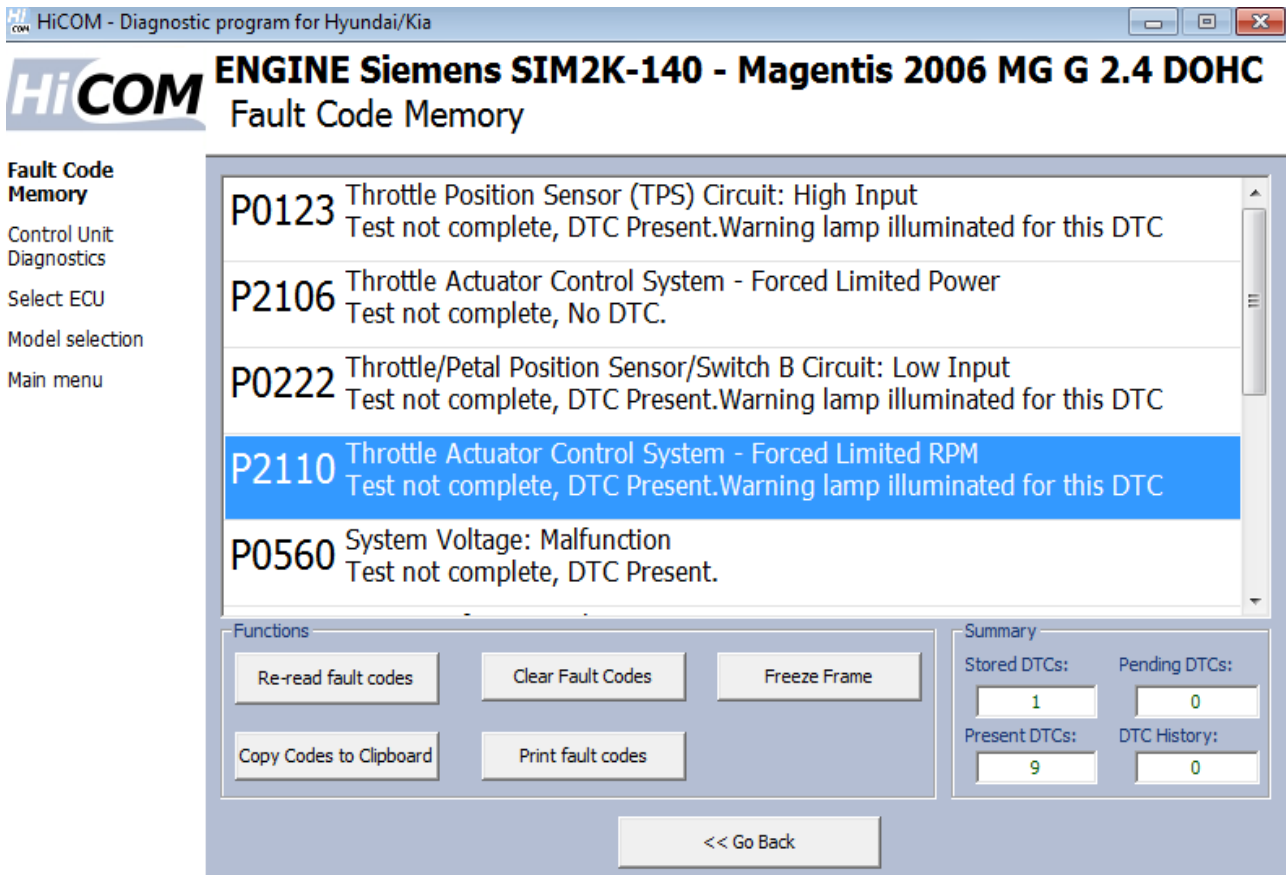
<< Go Back Save ECU Information Copy Values Print Values

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”. Purpose of this file is explained in chapter [#8.Reporting bugs and improvement requests](#).

7.3 Read fault code memory

This function allows to read and display diagnostic trouble codes saved in control unit memory.



Note: Not all ECUs support fault code reading. In case Fault code memory reading is not available, error message is displayed. Use live data or actuator tests to diagnose ECU problems in such case.

7.4 Clear Fault Codes

This function clears fault codes stored in ECU memory.

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 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 (also known as Snapshot or Environment data) function display selected measured values as present at occurrence of selected diagnostic fault code (DTC). This function is available from fault codes window.



Please note that HiCOM is not capable of decoding freeze frames on all ECUs. In such case raw hex dump is displayed. Please note that even dealer-level tool (Hyundai/Kia GDS) suffers from similar issue. In order to improve this function, please report such ECUs to support@secons.com.

The screenshot shows the HiCOM diagnostic program interface. The title bar reads "HiCOM - Diagnostic program for Hyundai/Kia". The main window title is "ENGINE Siemens SIM2K-140 - Magentis 2006 MG G 2.4 DOHC". Below the title, the text "Freeze Frame" is displayed. On the left side, there is a navigation menu with the following items: "Freeze Frame", "Fault Code", "Memory", "Control Unit", "Diagnostics", "Select ECU", "Model selection", and "Main menu". The main area contains a table of freeze frame data:

Freeze Frame Data	57
Freeze Frame Data	01
Freeze Frame Data	21
Freeze Frame Data	10
Freeze Frame Data	F1
Freeze Frame Data	4F
Freeze Frame Data	00
Freeze Frame Data	00
Freeze Frame Data	9D
Freeze Frame Data	00
Freeze Frame Data	00
Freeze Frame Data	00
Freeze Frame Data	16

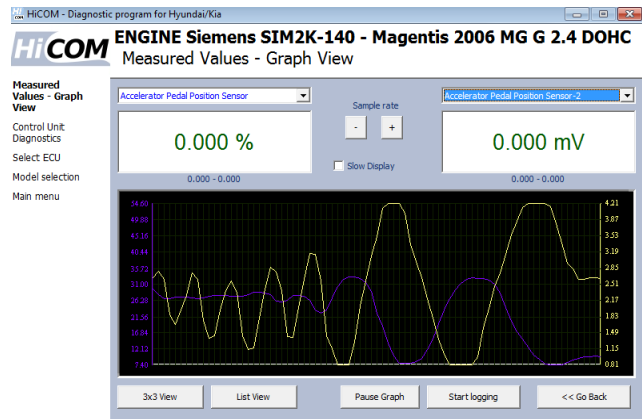
At the bottom of the window, there are three buttons: "<< Go Back", "Copy Values", and "Print Values".

7.6 Measured values

7.6.1 Graph display

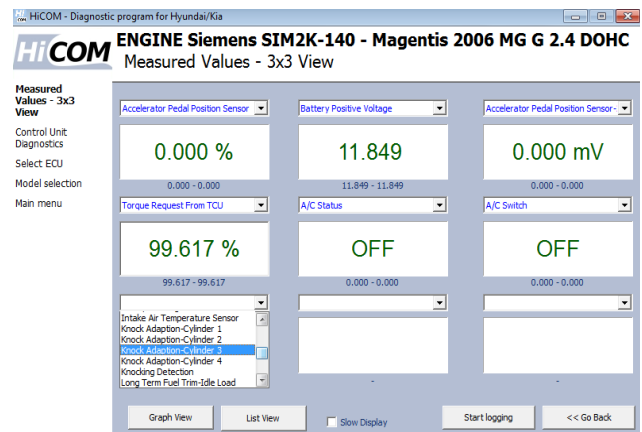
This function displays two measured values (also known as live data or sensor values) simultaneously. Measured parameters can be chosen from selectors at the top of the window.

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



7.6.2 Display 3x3

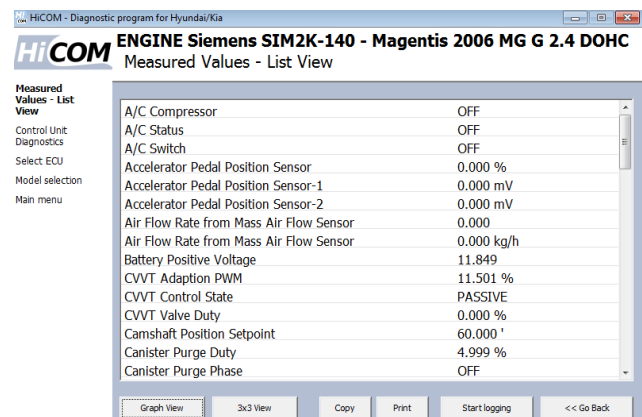
For measuring 9 value simultaneously, click on *3x3 View* button.



7.6.3 Display list

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

Please note values means slower refresh rate.

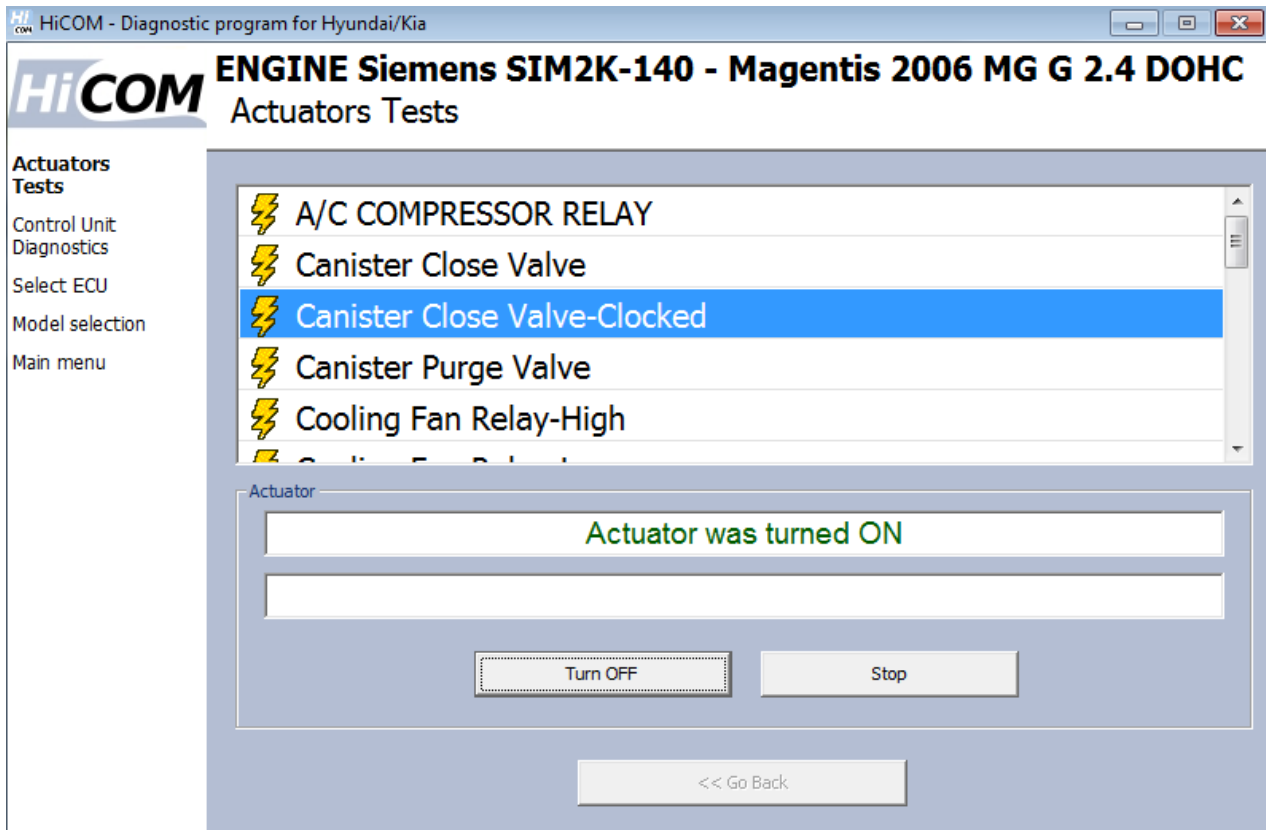


7.6.4 Save to log

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.



Make sure you understand consequences of activating ECU components. Also make sure that activation conditions (engine idle, engine running, etc.) are met. Always consult all tests with car repair handbook.

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 programming functions is available at www.obdtester.com/downloads . Please note that this function is currently under development.

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 HiCOM, do not hesitate to contact us directly at 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.

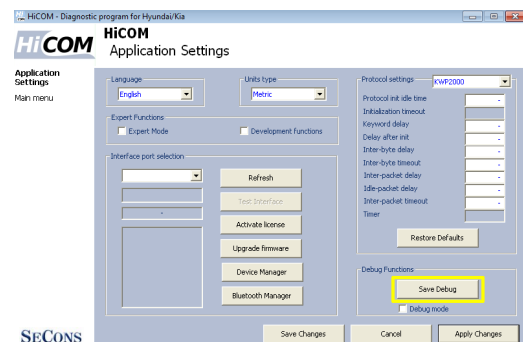
In case you encounter to failure of any program functions (e.g. fault codes reading/clearing, coding functions, actuator tests, connecting to ECU ...), or you're missing some function or some function does not work sufficiently, please prepare the following data in your email before sending your request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



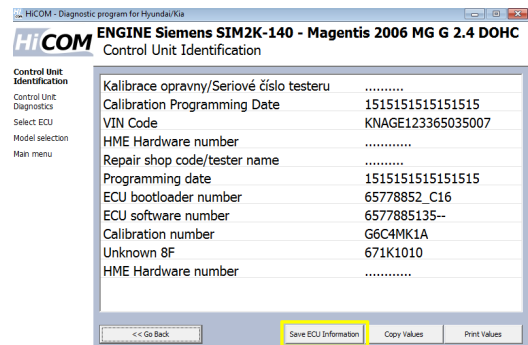
Enable “Debug mode” check box only at our special request.

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. 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 issues

- Freeze frame functionality is not guaranteed on all ECUs
- Communication with Hyundai Trajet 1999-2000 Gasoline 2.0 DOHC engine is not possible.
- Communication with Hyundai SantaFe 2001-2006 ABS 2WD control unit is not stable.

10 Planned improvements

The following improvements of user interface are planned for next release:

- Font size change option
- Screenshot to PDF or PNG
- Improved live data display
- Metric and imperial conversion
- Connection to online services