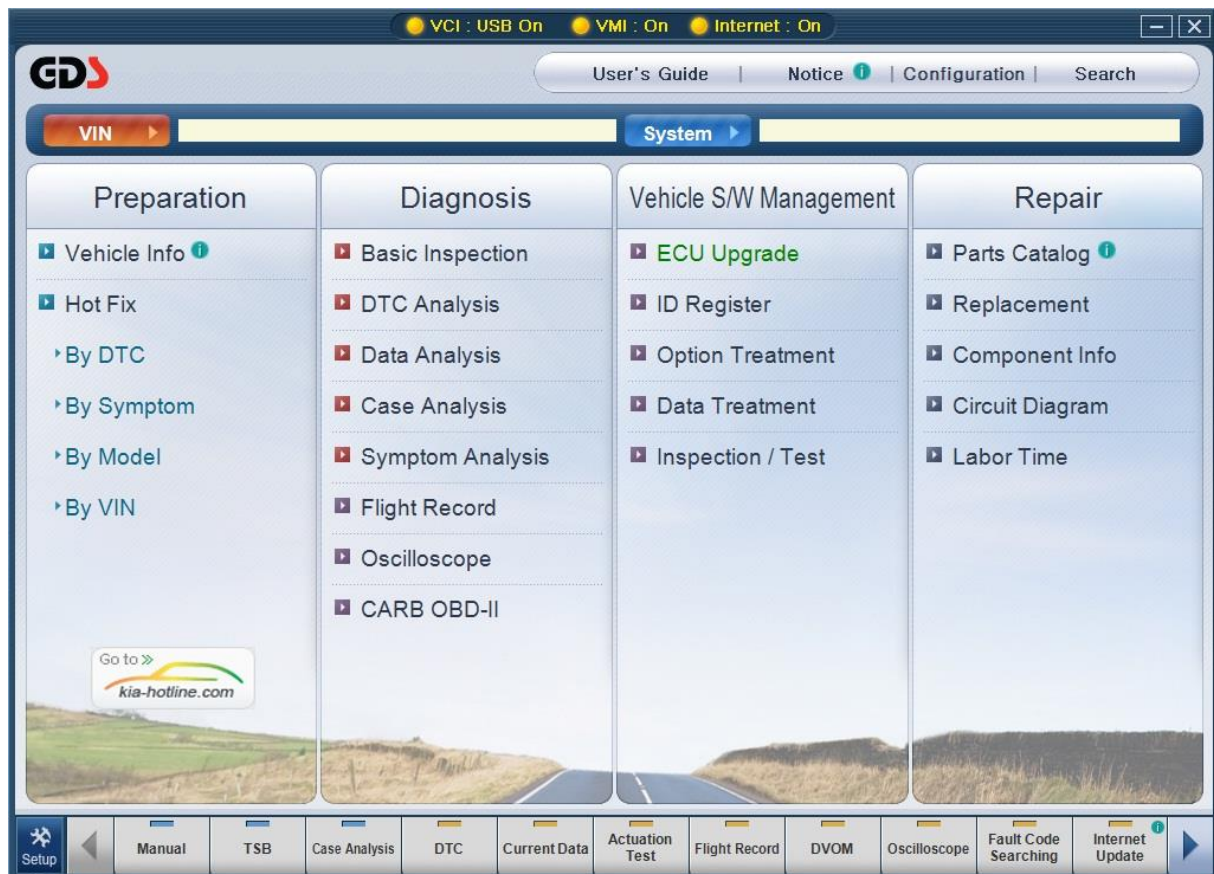


GDS - Basic Operation

Ver. 04. 06. 2010





Recovery Procedure



GDS - Basic Operation

Module: A-02-001-1 (p.01)

Recovering the GDS Software



WARNING

- When reinstallation procedure is performed, the contents of the hard disk will be erased. Be sure to back up any critical data on your hard disk to another media or to an external hard disk before running the reinstallation procedure. The reinstallation procedure will return the computer to its original condition.
- If you have created partitions for data, the data may be erased or become corrupt as a result of the reinstallation procedure.

Before Installing or Recovering

1. What is “Recovering”?

- Recovering refers to formatting the hard disk, and reinstalling GDS.

2. When is “Recovering” necessary?

- When Windows or GDS does not start up, or when Windows or GDS operation is unstable and cannot be recovered.

3. Preparing

- You will need the Product Recovery DVD-ROM (included).

4. Confirm the following

- Remove all installed peripherals devices. (Printers, USB devices, network cables, PCMCIA cards, etc.).

Before Installing or Recovering

1. Connect the AC Adaptor.
2. Connect the DVD-ROM.
3. Turn on the computer after inserting the GDS DVD S/W in the DVD-ROM.
4. The following screen will be shown when the computer is booted with GDS DVD:

```
-----
Select a number
-----
1. [ Recovery  ] Reinstall Windows.
2. [ Erase HDD ] Erase the whole data on HDD for security.

0. [ Cancel    ] Cancel.
-----
Please select a number >> _
```

5. Select "1" at the screen above.
The following screen will appear.

```
-----
In order to continue with the recovery process, you must agree to
the following:
(1) this software may be used only for restoring or reinstalling software on
the hard disk of the computer system with which the Product Recovery
DVD-ROM(s) were originally provided.
(2) the Microsoft product(s) contained on the Product Recovery DVD-ROM(s)
are subject to the terms of each End User License Agreement which is
indicated at installation process in such product(s)
-----
1. Yes, I agree to the provisions above and wish to continue!
2. No, I do not agree to the provisions above and do not wish to continue!
Please select a number >> _
```

6. Select "1" at the screen above.
The following screen will appear.

```
-----
Select a number
-----
Reinstalling : Windows(R) XP Professional

1. Recovery only C: Drive
2. Factory Recovery (include devided two partition)

0. Cancel
-----
Please select a number >> _
```

7. Select "1" at the screen above for Recovery only C: Drive.
The following screen will appear.

```
-----
Reinstalling : Windows(R) XP Professional

Initialize and reinstall Windows to the first partition.
All data on the first partition will be lost.
Will you continue?
-----
[Y,N]? _
```

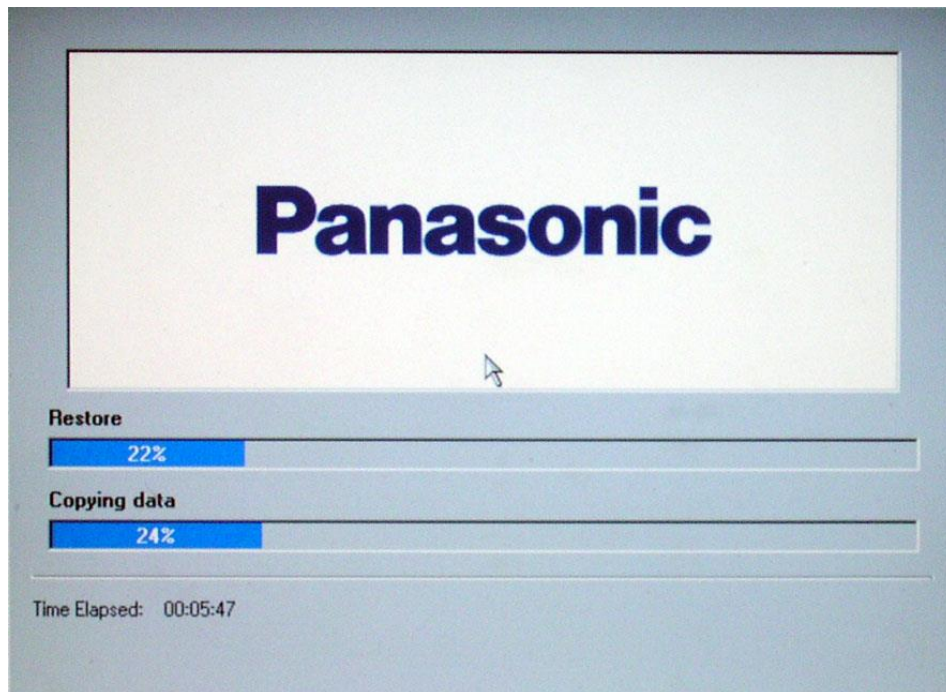
- Select "2" at the screen above for Factory Recovery.
The following screen will appear

```
-----
Reinstalling : Windows(R) XP Professional

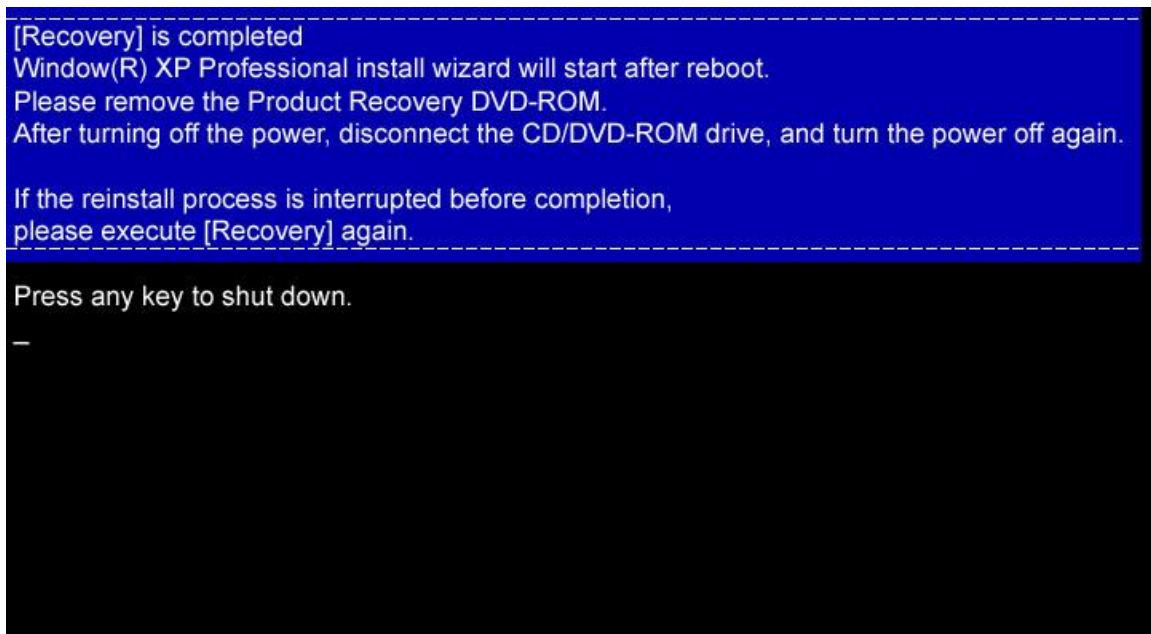
Initialize and reinstall Windows to the whole HDD to factory default.
All data on HDD will be lost.
Will you continue?
-----
[Y,N]? _
```

8. Select "Y" at this screen.

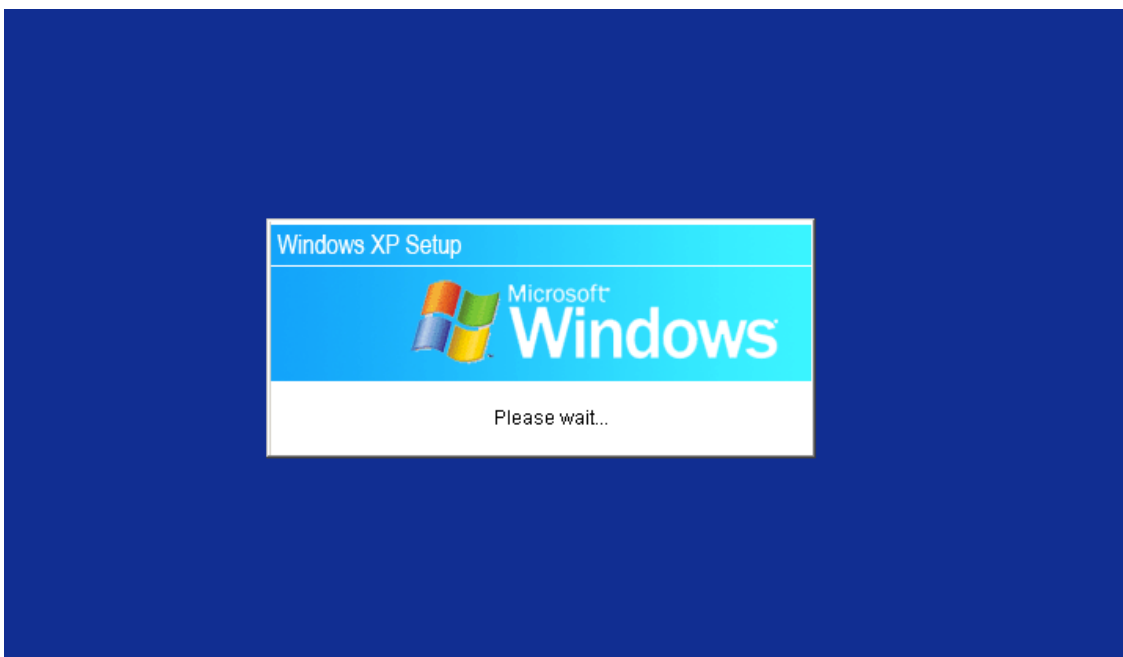
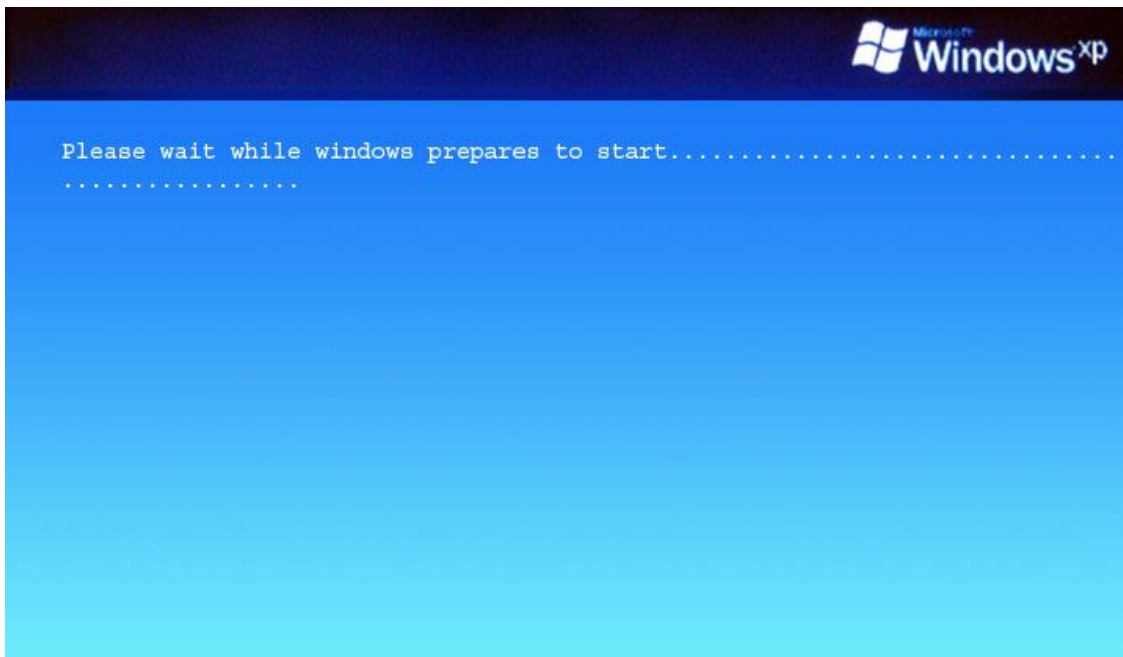
The following screen will appear.



9. A progress bar will be displayed during the installation procedure. When complete, the following screen will appear.



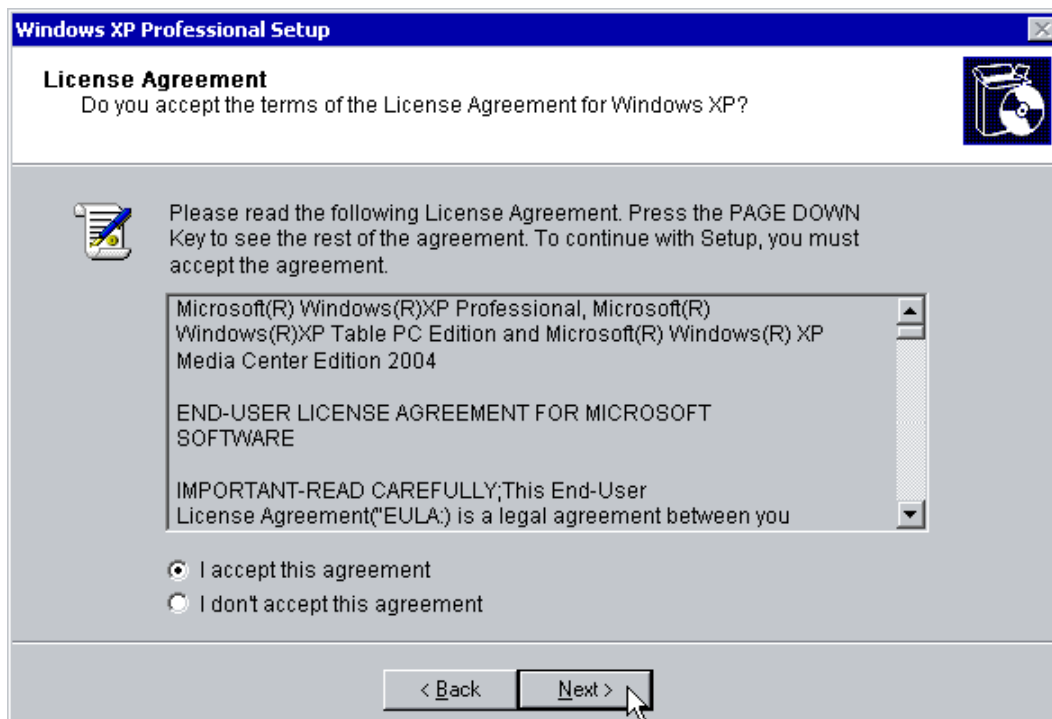
10. Remove the Recovery DVD from the CD/DVD-ROM drive, and press any key to shutdown the computer.
11. Restart the computer.
12. The computer will load device drivers as needed.



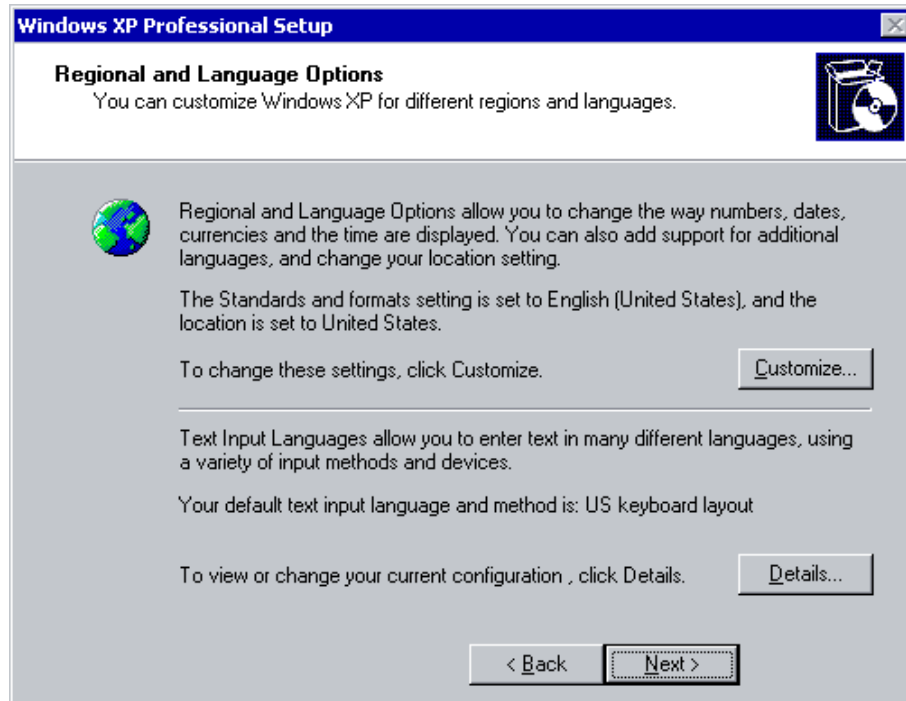
13. Window XP Professional Setup.



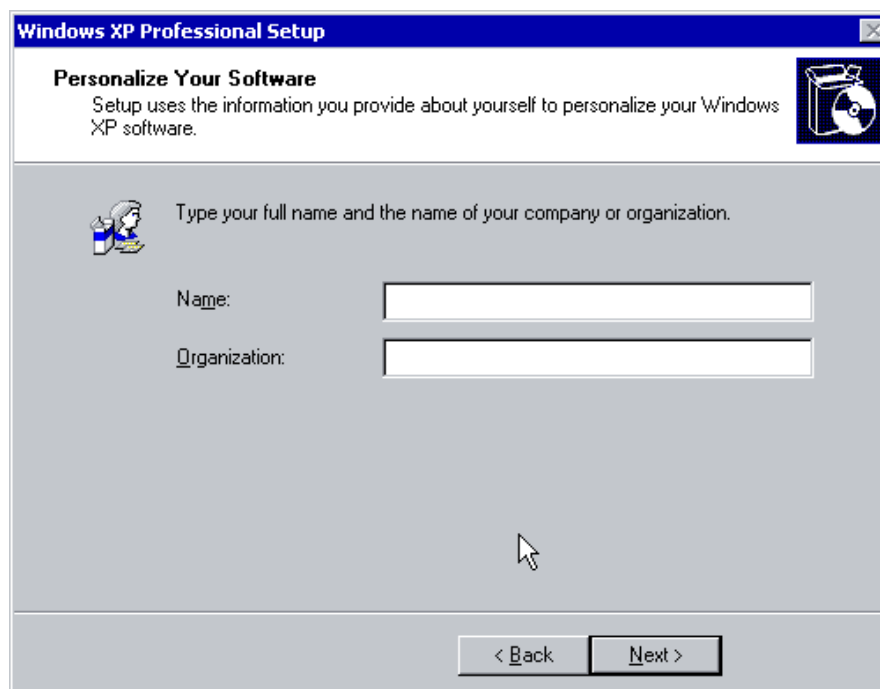
14. Read the License Agreement, and click on "I ACCEPT" and click on "NEXT" to continue.



15. The first screen that requires any user input in this phase is Regional and Language Options. If you're using English and you do entry via the keyboard the defaults will suit you fine.



16. Now it is time to personalize Windows. Fill in your name and if you wish you can also type in the Organization section. Click "NEXT" when ready.

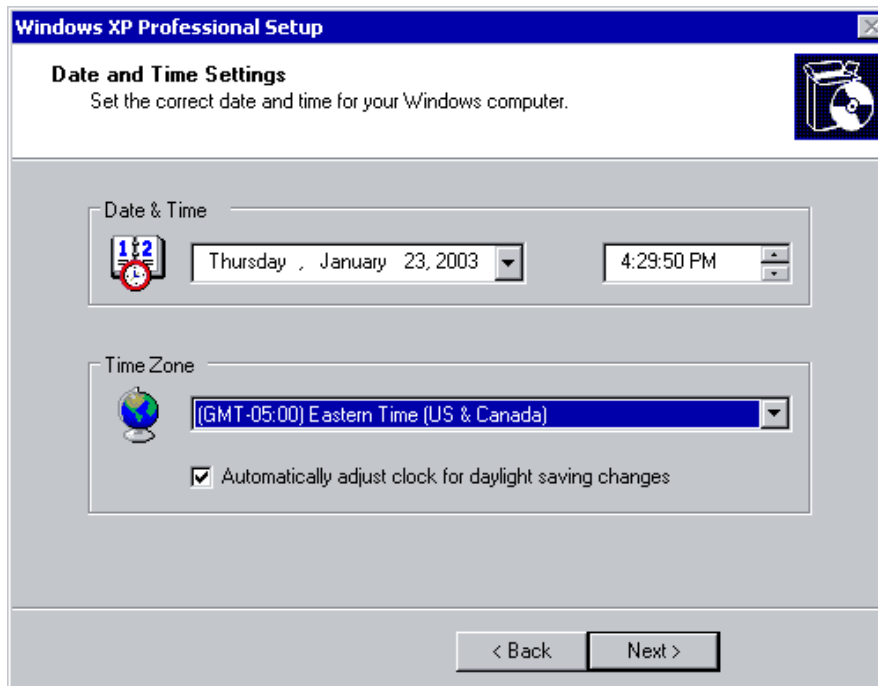


17. Now select your computer name and your admin password. Confirm the Admin password and press "NEXT".



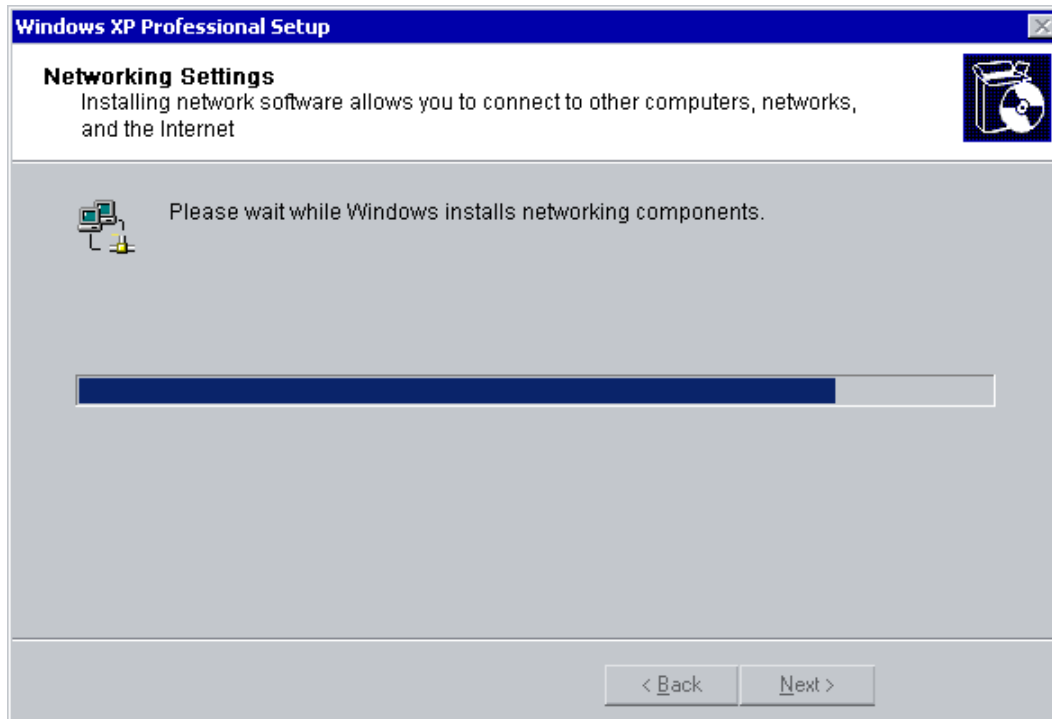
The screenshot shows the 'Windows XP Professional Setup' window. The title bar is blue with the text 'Windows XP Professional Setup'. The main window has a white background. At the top, the title 'Computer Name and Administrator Password' is displayed in bold, followed by the instruction 'You must provide a name and an Administrator password for your computer.' To the right of this text is a CD-ROM icon. Below the title, there are two sections. The first section is titled 'Computer name:' and contains a text box for entering the name. The second section is titled 'Administrator password:' and contains two text boxes for entering and confirming the password. At the bottom of the window are two buttons: '< Back' and 'Next >'. The 'Next >' button is highlighted.

18. Date and Time settings are next; change as needed, then press "NEXT".

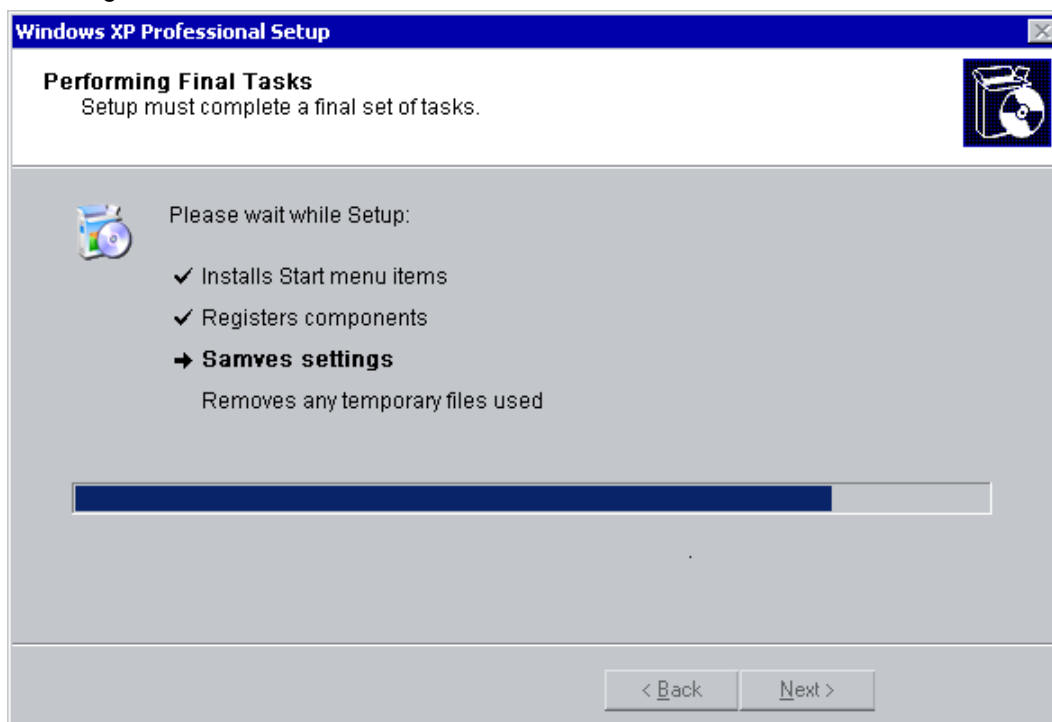


The screenshot shows the 'Windows XP Professional Setup' window. The title bar is blue with the text 'Windows XP Professional Setup'. The main window has a white background. At the top, the title 'Date and Time Settings' is displayed in bold, followed by the instruction 'Set the correct date and time for your Windows computer.' To the right of this text is a CD-ROM icon. Below the title, there are two sections. The first section is titled 'Date & Time' and contains a date picker showing 'Thursday, January 23, 2003' and a time picker showing '4:29:50 PM'. The second section is titled 'Time Zone' and contains a dropdown menu showing '(GMT-05:00) Eastern Time (US & Canada)'. Below the dropdown menu is a checkbox labeled 'Automatically adjust clock for daylight saving changes' which is checked. At the bottom of the window are two buttons: '< Back' and 'Next >'. The 'Next >' button is highlighted.

19. Network Settings process



20. Performing Final Tasks



21. This way, it is possible to run GDS by double clicking the GDS icon on the desktop.



Installation Procedure



GDS - Basic Operation

Module: A-02-001-2 (p.01)

Laptop Requirements

To install GDS, user's computer must match the following requirements:

1. PC must be a laptop. Desktop PCs have possibilities of power troubles that can cause damage to the GDS system.
2. Model that is provided with the Windows XP Professional Recovery CD/DVD. Model that is always recoverable.
3. Model with a DVD-ROM Drive that can read Dual layer DVD.
4. Model with more than 512Mbyte RAM and 60Gbyte Hard Disk Drive(HDD) with at least 40Gbyte of free space.
5. Model with the USB Ports.
6. GDS program runs at Internet Explorer 6.0 or higher. If web browser is not set as Internet Explorer, please reset Internet Explorer as the default browser.
7. File systems for the drives are recommended to be both NTFS.
8. PC that GDS is to be installed must have Internet connection at all times.



CAUTION

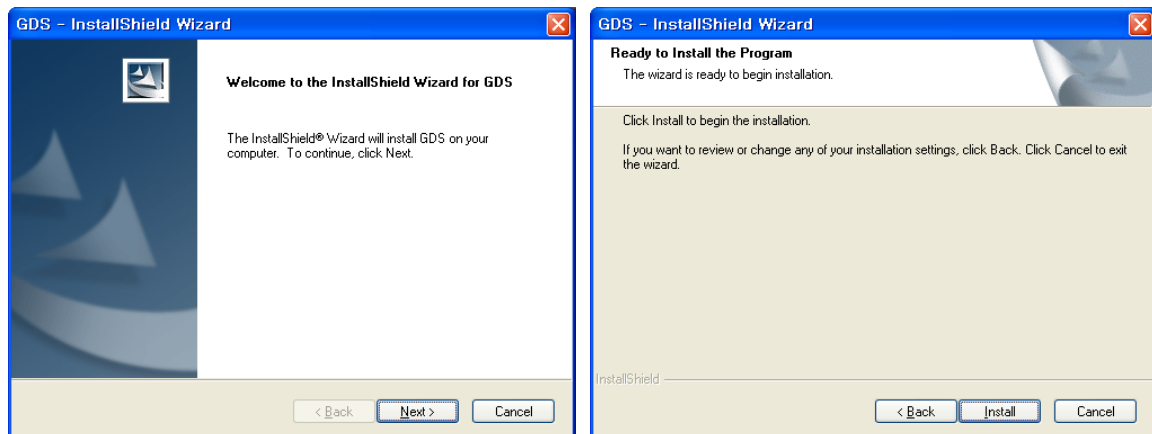
This indicates incorrect handling may lead to injury or damage to property. Under certain conditions more serious consequences may result.

- Please do not install any other programs on the PC except for GDS and MS Office after OS recovery.
- Do not install any Internet Explorer Plug-ins such as Google toolbar. It attributes malfunctioning of GDS since the GDS is operated on the Internet Explorer basis.
- GDS program CD/DVD media supplied by GIT are not to be reproduced or duplicated at any circumstances.
- Close all windows and programs running before installing GDS.
- (During this installation process, OS (Window XP) may reset without any warning which result a data loss the user is working on. GIT is not responsible for any loss of data caused by this action.)
- Installation time may change depending the PC peripherals performance. If installation runs for more than 30minutes, please ensure to change all Power management settings (Settings for portable power scheme) to "Never". Installation done without changing these settings may not start GDS properly.
- GDS changes Windows XP background image during GDS installation process. If User desires to change the background image at users preference, the user may do so by changing the image at Display settings in Control panel.
- PCs like laptop relying on its portable battery should always be connected to the AC main during GDS installation. PC may end up with a critical error or end up in unrecoverable state if battery power runs out during the installation process.
- GDS program itself and all its contained information and images are secured by International Copyrights. Therefore, they should never be copied or reproduced in any unacceptable manner. Violating this regulation can stand in front of Court and GIT can ask for any applicable compensation.
- All images and data contained in GDS can change without any prior notice for improvements in service.

GDS Install Procedure

A. Beginning InstallShield Wizard

1. Insert installation DVD to the DVD ROM.
2. InstallShield will start automatically in a few seconds.
3. Press Next button in following dialogs.



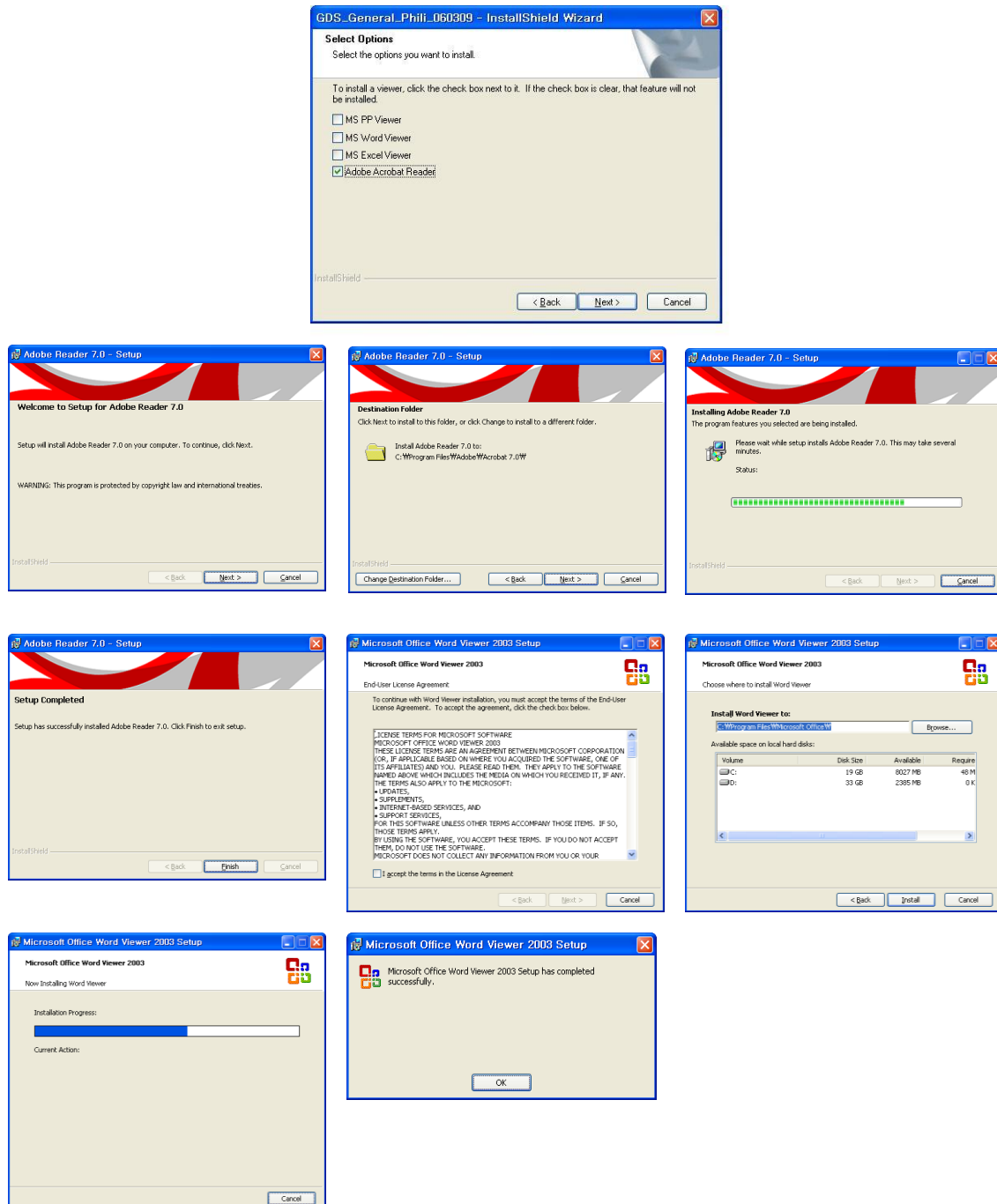
Exception. Selecting Target Drive (If your hard disc is not partitioned, below process will be skipped.)

1. Select the HDD drives where the user wants to install. In this step, user can choose between C drive and D drive to install the Data folder that requires about 12 GBytes. Press "Next" button to go to the next step.



B. Installing the Viewers

1. Install the viewers to access the GDS information. Select the viewers.

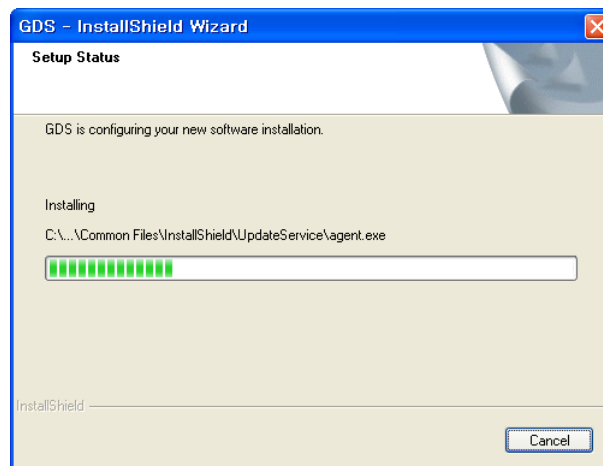


InstallShield will launch the selected install programs: Acrobat reader, MS Word viewer, MS PPT viewer, and MS Excel viewer.

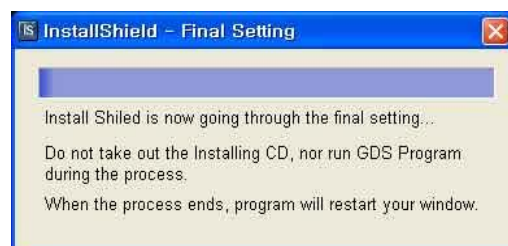
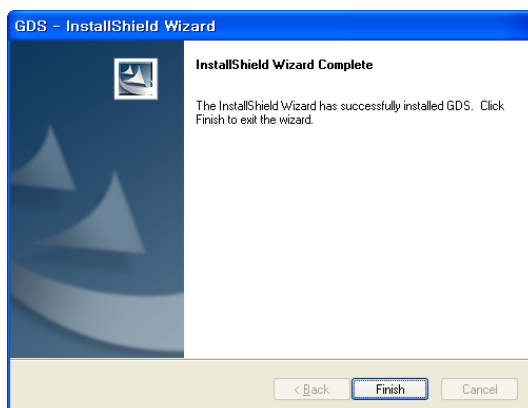
After installing all the required viewers, press "Next" button to go to the next step.

C. Copying Files to the Computer

1. GDS files will be copied into your computer. This step will take about 30 to 50 minutes.



2. Press "Continue" button on the dialog. Then install shield will go through various settings required for the GDS installation. The setting process takes around 5 to 10 minutes. PC will reboot automatically after the settings. Therefore, save any of the workings files, before or right after pressing the "Continue" button on the Dialog. **During this process, do not take out the installing DVD, nor run GDS program. GDS will not be installed correctly if these actions taken during the installation process.**

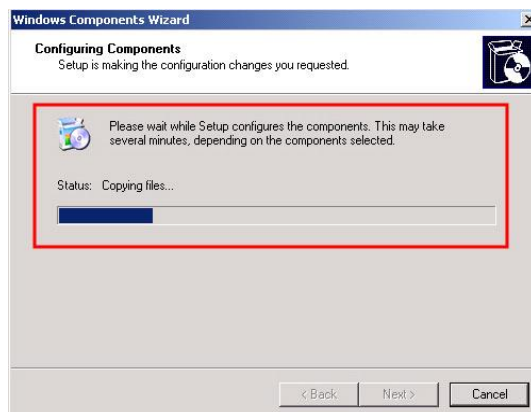


D. Installing IIS and Configuring GDS

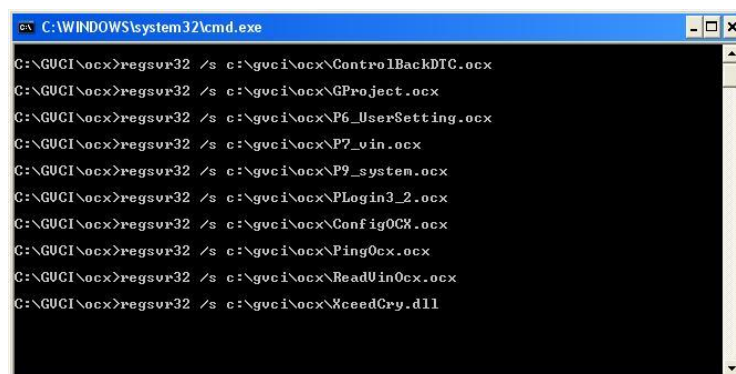
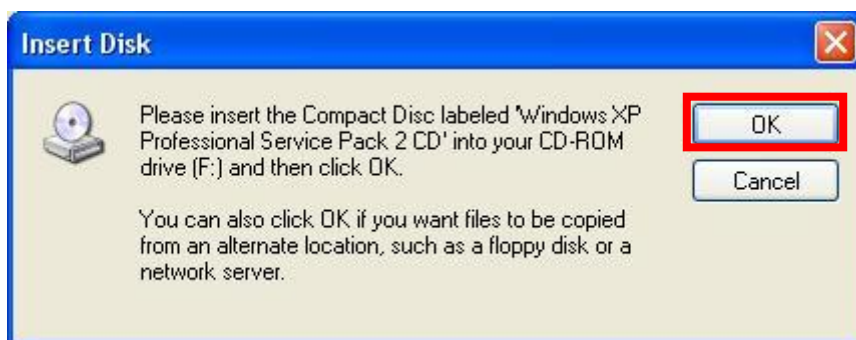
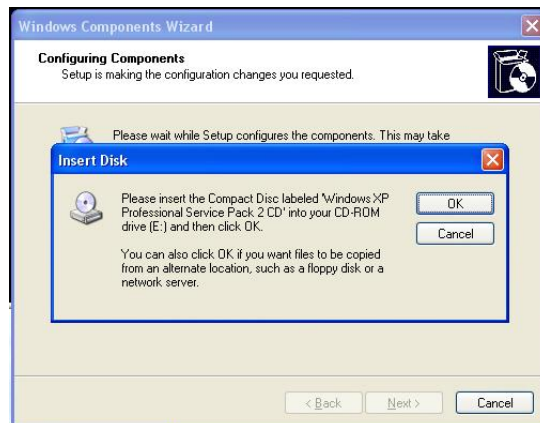
1. After the rebooting process, GDS installation dialog will popup and automatically continue the GDS installation. Press "OK" button to continue.



2. IIS(Internet Information Service) will be installed if it is not installed on the User's PC.



3. IIS will be installed automatically. Do not touch the dialog during the installation of IIS. If the PC has I386 installed in the PC, then there is no need to insert Windows XP Pro CD during the installation of IIS. However, if not, then the user should insert the Windows XP CD, which is used for installing the Windows XP on the user's computer. After the IIS installation, there will be a few more installation processes for GDS.



4. When whole installation process is completed, there will be a message box showing that GDS installation is completed.



Starting GDS Install

1. Now, connect to Internet and start the GDS program by clicking icon on your desktop. You'll find the "GDS User Certification" window.
2. Please insert your ID and Password then click OK button.
3. Start the GDS.

If you find this "GitBDtc MFC 응용 프로그램" pop up or "Internet Explorer" popup alert dialog while using GDS, PLEASE CHOOSE "UNBLOCK" button to operate GDS normally.



Starting GDS

After the Software installation, start GDS by double clicking the shortcut icon located on your desktop as shown in [Figure 1] below.



Figure 1. GDS Shortcut icon shown on desktop

GDS Certification

Some GDS functions are only usable when GDS is certified with a correct GSW ID.

Functions that need Recertification:

- Vehicle Info
- Hot Fix
- TSB
- Case Analysis
- ECU Upgrade

How to certificate GDS:

1. From the GDS initial page, click on the "Configuration" page then move to "Dealer Tab".

The screenshot shows a software window titled "Configuration" with several tabs: "Version", "Wireless Config", "Dealer" (selected), "Units of Measure", "Self Test (Semi-Test)", and "Server". The "Dealer" tab contains two main sections: "User Information" and "Language".

User Information: This section contains input fields for "Region", "ID", "Tel.", "Address", "Distributor Name", "Name", and "e-mail". A green "Recertification" button is located below these fields.

Language: This section displays a grid of buttons for selecting a language. The languages shown are: English, Français, Deutsch, español, Italiano, Ελληνικά, Čeština, русский язык, Türkçe, Polski, Português, Български, Magyar, Română, and 日本語. A green "Save" button is located below the language grid.

A blue "Close" button is located at the bottom center of the window.

Figure 2. GDS Certification

2. Under 'Dealer Tab' page, click on the "Recertification" button in 'User Information' section and connect to server to certify GDS.

A screenshot of a software window titled "GDS Certification". The window has a light blue header with a user icon and a padlock icon, and the word "LOGIN" in large blue letters. Below the header, there are two input fields: "ID" and "Password", each preceded by a small orange circle icon. A green "Log in" button is positioned below the input fields. At the bottom of the window, there are two large blue buttons: "GDS Without Certification" and "Cancel".

Figure 3. GDS Certification

3. As shown in the [Figure 2], enter in the user's ID/Password in the 'Log in' window. Then click 'Log in' button to save information to complete "GDS Recertification".



Main Screen Layout




GDS - Basic Operation

Module: A-02-003 (p.01)

The Main page of GDS consists of four rows.

- The first row shows indications for VCI, VMI and Internet connections.
- The second row consists User's Guide, Notice(Internet Connection required), Configuration and Search functions.
- The third row indicates the VIN selection and system selection.
- The forth row consists Preparation, Diagnosis, Vehicle S/W Management and Repair sections for detailed diagnosis process.
- The fifth row contains the shortcuts to individual functions in "Contents Information" and "Diagnosis process".

The program is optimized for 1024x768 resolution. Functions with  logo shown in [Figure 1] can only be used when Internet is connected (e.g. Parts-Catalog can only be used with the Internet).

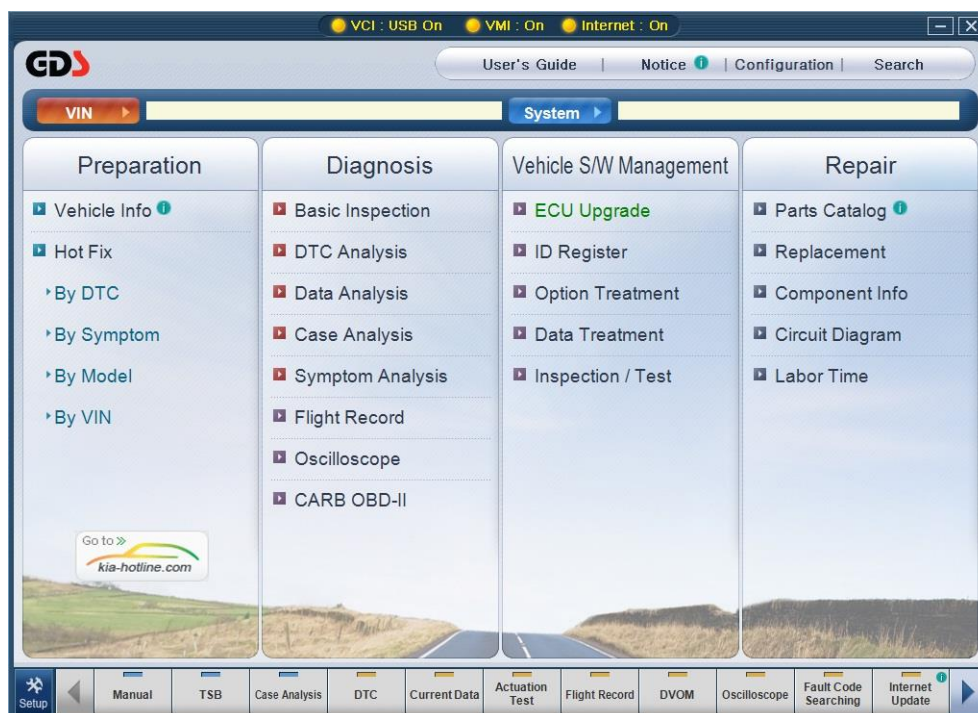




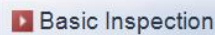



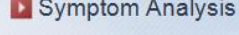

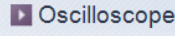

Figure 1. Main screen layout

Main Screen Menu



First row column: Preparation

Icon	Description
	Checks Production / Sales information, and Warranty History for selected VIN. This function requires an Internet connection.
	Accesses TSB / Local TSB / Case Study / Local Case Study / Distributor Hot Line / Dealer Hot Line search function.

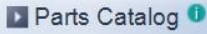


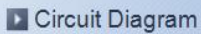
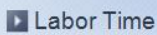
Second row column: Diagnosis

Icon	Description
	Offers a checklist for basic inspection for vehicles.
	Checks DTC and related information confirmed by communication between VCI and ECU.
	Checks "Current Data" and related information through communication with an ECU.
	Offers maintenance cases for selected trouble symptom chosen in Vehicle Selection function.
	Offers a diagnosis guide for selected trouble symptom chosen in Vehicle Selection function.
	Saves a data from vehicle control module to a VCI module memory by setting up VCI module to keep connection automatically with an ECU of a specific system.
	Offers an oscilloscope function.
	Generic OBD-II mode.





Third row column: Vehicle S/W Management

Icon	Description
	Performs functions for ECU Reprogramming (Upgrade).
	Menu is arranged in the initial page in order to offer a direct link to important special (upgrade) functions.










Fourth row column: Repair

Icon	Description
	This function requires an Internet connection.
	Offers information about vehicle component removal and installation process.
	Vehicle Component-related data.
	Offers a Full Electrical Circuit Diagram. (ETM)
	Accesses labor Time information


Top Menu of Main Screen

Icon	Description
	Offer a function to view the User Manual.
	Offers a function to check system notices. This function requires an Internet connection.
	Offers functions to check version, to input "VCI Firmware Update", to input Dealer Information, to input Connection information, and to configure units for VCI and VMI functions.
	Offers a search function for GDS supported data.

Vehicle Selection and Connection Status for Internet and VCI Communications

Icon	Description
	Offers a function to select vehicle and system used by GDS, to select control module for Fault Code Searching, and to select trouble symptoms for selected vehicle.
  	Shows current connection status between a PC and a VCI. Shows status among "WLAN ON", "USB ON" and "VCI OFF". If the connection is made by WLAN between the VCI and the PC, then the status bar will appear as "WLAN ON", if the connection is made by USB cable, then the status bar will appear as "USB ON". If the VCI module is turned off, then the status bar will appear as "VCI OFF"
 	"VMI OFF", "VMI ON" Indication is lit to indicate connection between VMI and PC.
 	Shows current connection status between PC and the Internet. Menus with  logos can only be used when the status is "Internet On".

Global Service Way (GSW)

Icon	Description
	Offers a function to link to the URL, which is assigned by a user in the "Configuration". This function can be used with a connection to the Internet.

User Setting

14 Hotkeys of frequently used functions are arranged at the bottom of GDS.GDS To re-arrange HotKeys, click "Setup" button to bring out HotKey Configuration Popup and re-arrange the layout of Hotkeys.

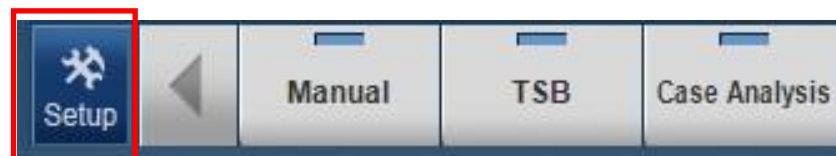


Figure 2. Setup button for "Hotkey Config"











Figure 3. User Setting for icons



Items: Items that are removed from Hotkeys at the bottom of GDS.

Selected Items: Items that are included in the Hotkeys at the bottom of GDS.

[Figure 3] Each buttons functions are as following..

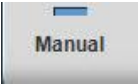

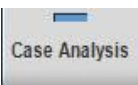



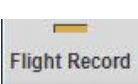

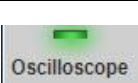
Icon	Description
	Removes the item from Hotkey region by moving the item to 'Items' from 'Selected Items'.
	Adds the item from Hotkey region by moving the item to the 'Selected Items' from Items.
	Moves up the item that user selected in the "Selected Items". Moves item to the left by one in the Hotkey.
	Moves down the item that user selected in the "Selected Items". Moves item to the right by one in the Hotkey.
	Loads default setting.
	Saves the layout of Hotkeys that user organized in the Hotkey configuration.

'Items can be selected and added and removed by using  and  buttons located in the middle of Hotkey Configuration.


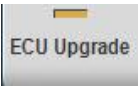

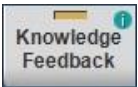

Hotkeys located at the bottom of GDS is arranged from left to right as the items are arranged from top to bottom. If the selected items exceed more than 11 items, Hotkeys area at the bottom of the GDS will be added with  and  buttons enabling the user to navigate through the Hotkey area.

Descriptions for the shortcut icons, located in the lower section of the initial page, are as follows:

Hotkey icon functions

Icon	Description
	"Manual" shortcut triggers a viewer for information such as "DTC Guide" and "Shop Manual", "ETM".
	Shortcut directly linked to "Technical Service Bulletin(TSB)".
	Shortcut directly linked to similar Maintenance cases.
	Shortcut directly linked to "Diagnostic Trouble Code (DTC) Analysis" function in the "Diagnosis" section
	Shortcut directly linked to "Current Data" function in the "Diagnosis" section.
	Shortcut directly linked to "Actuation Test" function.
	Shortcut directly linked to "Flight Record Review" function.
	Shortcut directly linked to "DVOM" function in the "Diagnosis" section. (This function is not yet in service.)
	Shortcut directly linked to "Oscilloscope" function in the "Diagnosis" section. (This function is not yet in service.)

User's Manual

	<p>Shortcut directly linked to “Simulation Test” function in the “Diagnosis” section. (This function is not yet in service.)</p>
	<p>Shortcut directly linked to the “ECU Upgrade” and “Special Functions” in the “Vehicle S/W Management”.</p>
	<p>Performs “Fault Code Searching” for the control module selected at the “Vehicle Selection” stage. The icon changes according to the status: whether the Search is in progress or whether there is a DTC. If DTC is found, user can check the “DTC List” by clicking the shortcut icon.</p>
	<p>This button is enables you to get to GSW "Distributor Hotline" page directly. (This function is only available when logged in with Distributor admin)</p>
	<p>Clicking the shortcut icon manually performs “Internet Update”. GDS must be connected to the Internet.</p>



Internet Update



GDS - Basic Operation

Module: A-02-004 (p.01)

An Internet Update provides updates for the GDS operating software and the firmware of VCI module. Internet Updates are to be carried out for known issues and to increase the efficiency of the GDS.

.

There are three methods to perform Internet Updates.

- Internet Update being automatically triggered by SmartUpdate.exe at the start of the GDS program. (GDS Internet Update window will only pop up when the GDS PC is connected to the internet at the time. And the GDS (Local) version is lower than the SERVER version.)
- Run Internet Update by clicking the “Internet update” button located in the right-bottom of the Main screen.
- Or click “Internet update” button under “Version” Tab in the ‘Configuration’ page.

Smart Update Screen Menu

When the Smartupdate.exe program is triggered, the Smartupdate program automatically connects to the designated Update Server and displays the available version and update files.

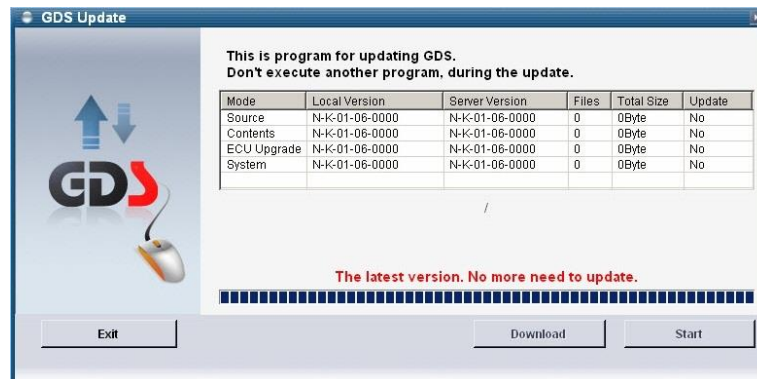


Figure 1. When there are no internet update files available.

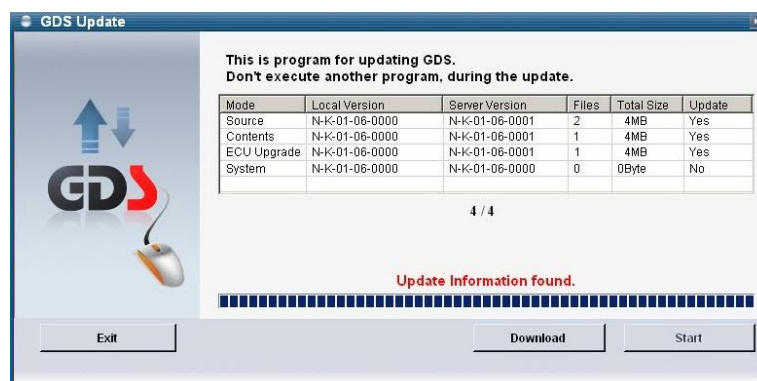




Figure 2. When there are internet update files available for download.

Icon	Description
	Download available internet update files from the server.
	"Start" button is activated when all available files are downloaded. This installs the downloaded files to the GDS program.

Smart Update Process

If there are update files available for download as shown in Figure 2., click “Download” button to download update files.

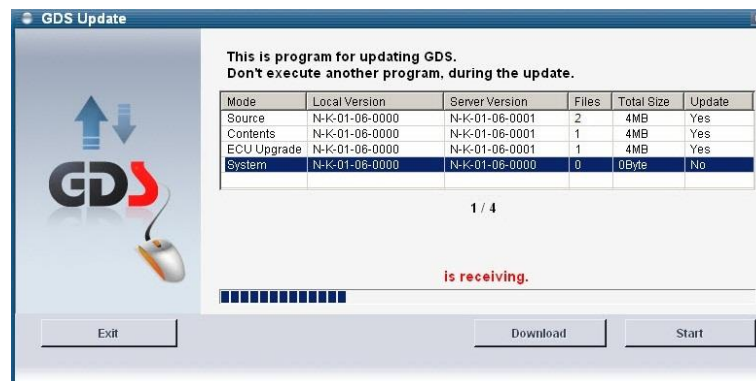


Figure 3. Internet Update File Download.

When the download is completed, 'Download' button will be deactivated and "Start" button will be activated in order to install downloaded files.

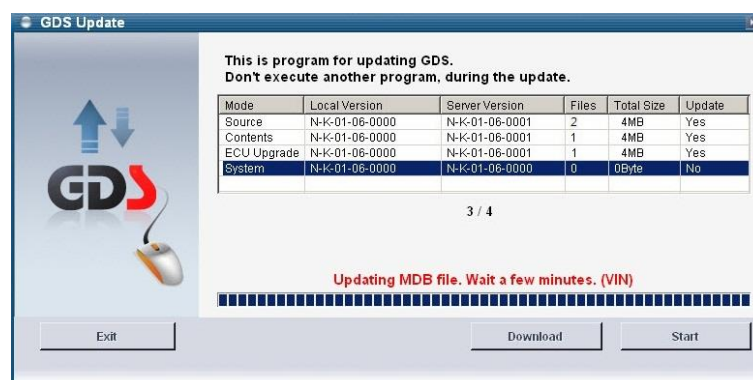


Figure 4. Internet Update in progress.

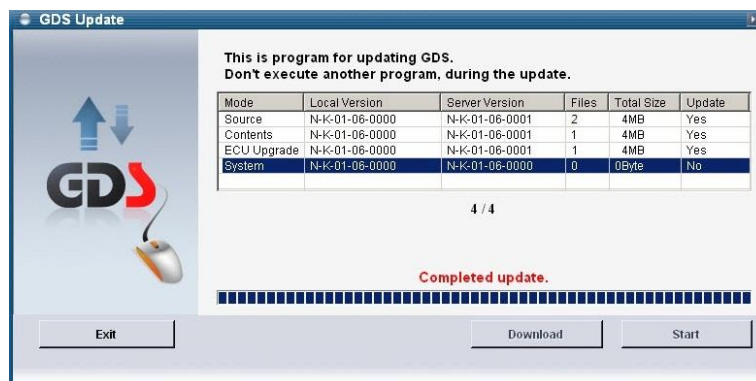


Figure 5. Internet Update completed.

VCI Firmware update Process

If a new VCI Firmware Update is included in an Internet Update, The VCI Firmware Update is automatically triggered as shown in Figure 6.

If the VCI is not connected at the time, the prompt message will be shown for VCI connection as shown in Figure 7. Click "OK" button after connecting the VCI to the GDS and Click "VCI Update" button to start VCI Firmware Update. Press "Cancel" if you are willing to perform VCI Firmware Update at another time. This VCI Firmware Update can be done manually under "Version" Tab in 'Configuration' page.

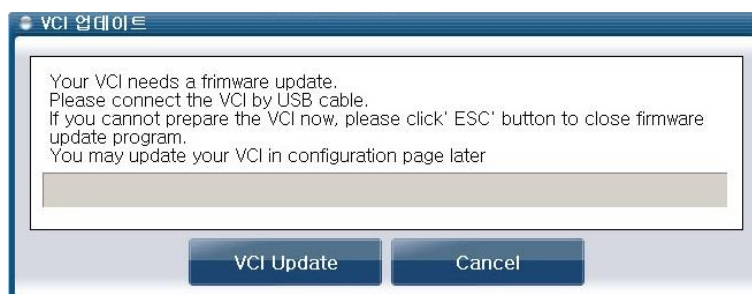


Figure 6. VCI Firmware update in progress



Figure 7. When there are no connection between the VCI and the GDS.

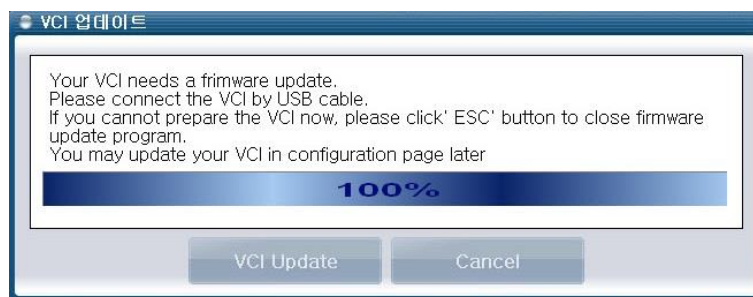


Figure 8. VCI Firmware Update completed.

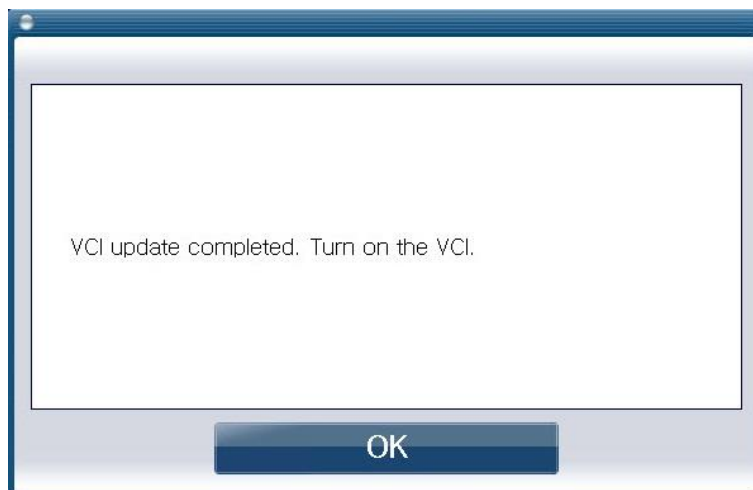


Figure 9. VCI power ON prompt pop-up



GSW (Global Service Way) and Notice




GDS - Basic Operation

Module: A-02-005 (p.01)

GSW (Global Service Way)

“Global Service Way” is a system constructed to allow access to the Internet Portal system containing large amount of vehicle maintenance information that GDS Hard Disk cannot store efficiently.

By clicking  button in the Main page in [Figure 1], it will connect to the Internet Portal system site for vehicle maintenance system as shown in [Figure 2].

URL address of the site can be changed in the “Configuration” menu on the main page. By selecting configuration menu, a window appears as shown in [Figure 3]. Change URL address at the “Global Service Way URL” input box on the window. Press “Save” button to apply the change in URL address.

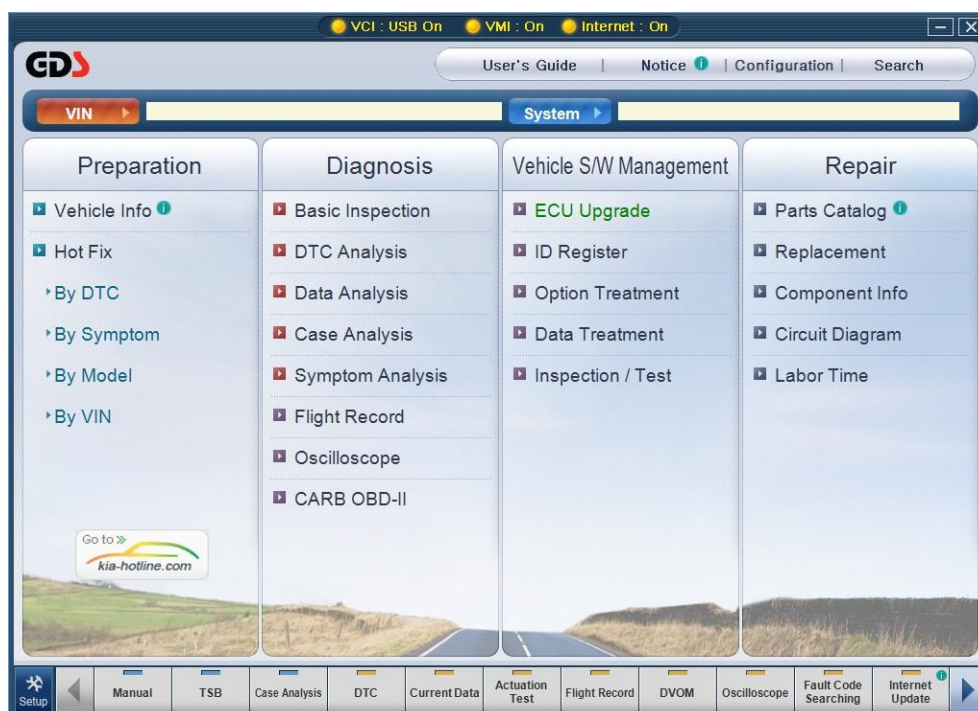


Figure 1. Initial screen of GDS

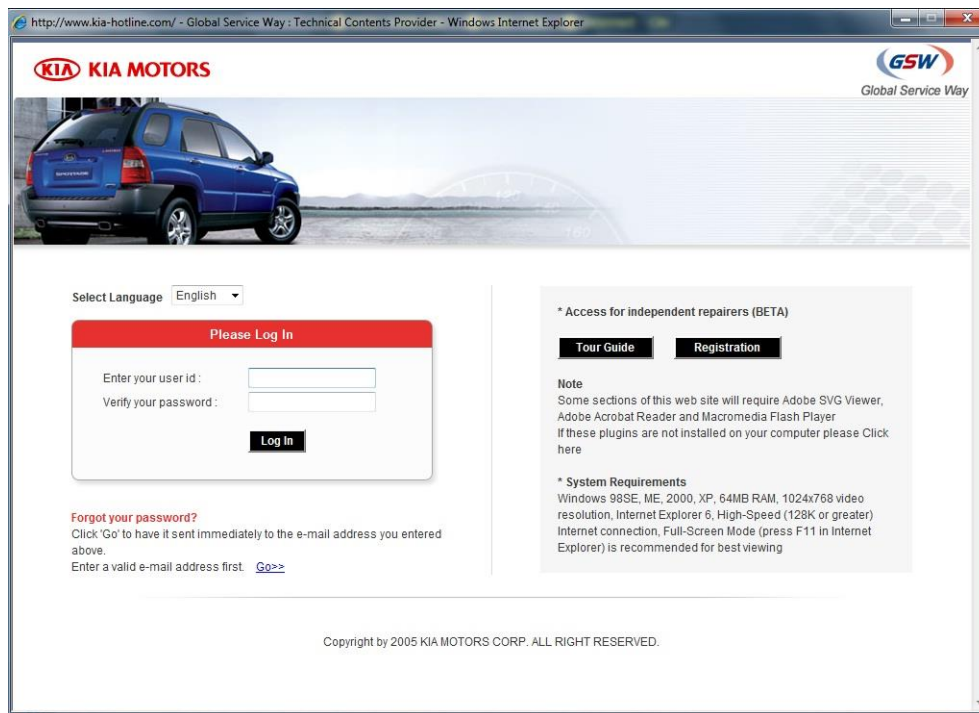


Figure 2. Connection to GSW site

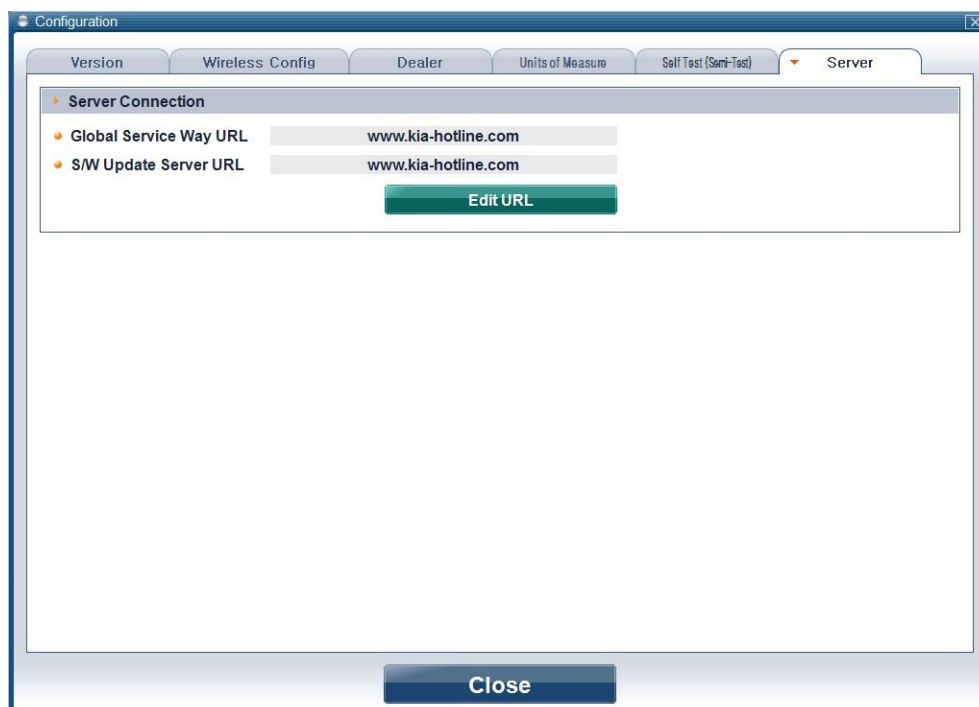
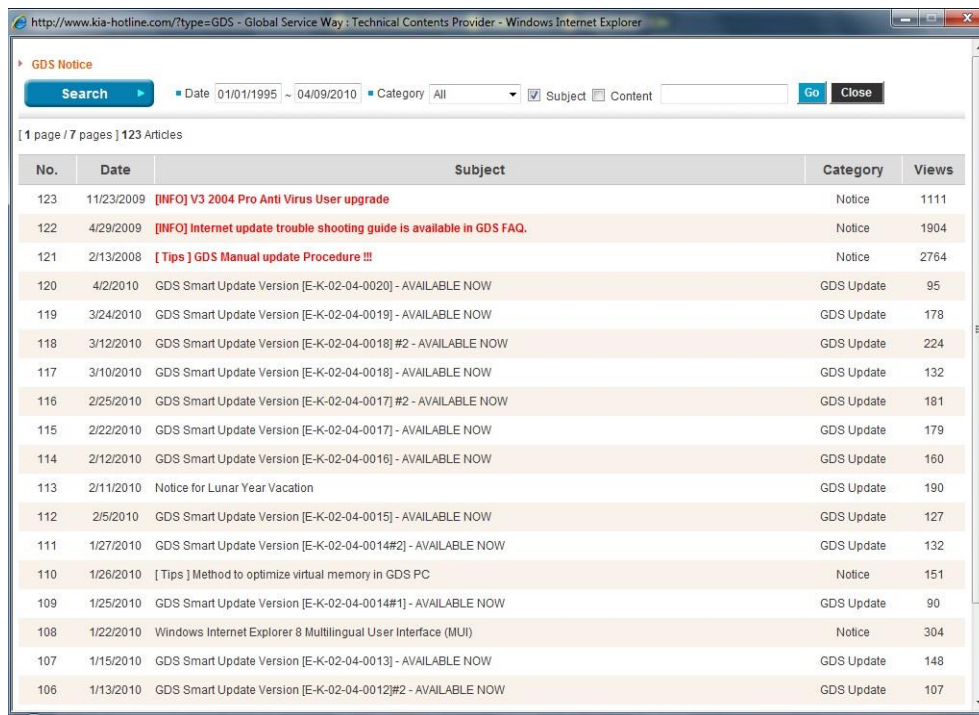


Figure 3. URL change for GSW connection

Notice

An Internet connection is required to view system notices.



http://www.kia-hotline.com/?type=GDS - Global Service Way: Technical Contents Provider - Windows Internet Explorer

GDS Notice

Search

Date 01/01/1995 ~ 04/09/2010 Category All ☒ Subject ☐ Content Go Close

[1 page / 7 pages] 123 Articles

No.	Date	Subject	Category	Views
123	11/23/2009	[INFO] V3 2004 Pro Anti Virus User upgrade	Notice	1111
122	4/29/2009	[INFO] Internet update trouble shooting guide is available in GDS FAQ.	Notice	1904
121	2/13/2008	[Tips] GDS Manual update Procedure !!!	Notice	2764
120	4/2/2010	GDS Smart Update Version [E-K-02-04-0020] - AVAILABLE NOW	GDS Update	95
119	3/24/2010	GDS Smart Update Version [E-K-02-04-0019] - AVAILABLE NOW	GDS Update	178
118	3/12/2010	GDS Smart Update Version [E-K-02-04-0018] #2 - AVAILABLE NOW	GDS Update	224
117	3/10/2010	GDS Smart Update Version [E-K-02-04-0018] - AVAILABLE NOW	GDS Update	132
116	2/25/2010	GDS Smart Update Version [E-K-02-04-0017] #2 - AVAILABLE NOW	GDS Update	181
115	2/22/2010	GDS Smart Update Version [E-K-02-04-0017] - AVAILABLE NOW	GDS Update	179
114	2/12/2010	GDS Smart Update Version [E-K-02-04-0016] - AVAILABLE NOW	GDS Update	160
113	2/11/2010	Notice for Lunar Year Vacation	GDS Update	190
112	2/5/2010	GDS Smart Update Version [E-K-02-04-0015] - AVAILABLE NOW	GDS Update	127
111	1/27/2010	GDS Smart Update Version [E-K-02-04-0014#2] - AVAILABLE NOW	GDS Update	132
110	1/26/2010	[Tips] Method to optimize virtual memory in GDS PC	Notice	151
109	1/25/2010	GDS Smart Update Version [E-K-02-04-0014#1] - AVAILABLE NOW	GDS Update	90
108	1/22/2010	Windows Internet Explorer 8 Multilingual User Interface (MUI)	Notice	304
107	1/15/2010	GDS Smart Update Version [E-K-02-04-0013] - AVAILABLE NOW	GDS Update	148
106	1/13/2010	GDS Smart Update Version [E-K-02-04-0012]#2 - AVAILABLE NOW	GDS Update	107

Figure 4. Notice

The GDS "Configuration" function is located on the upper section of the Main page. Clicking the "Configuration" button activates it. "Configuration" functions consist of 6 sections: "Version", "wireless setting", "Dealer", "Units of measure", "self test(semi-test)" and "server"

Version

This tab displays the Software version, Contents version and ECU Upgrade Version. In addition, VCI/VMI/TPMS firmware update can be done in this tab.



Figure 1. Configuration - Version

PC

Software

"Software" represents the current version for the vehicle communication software related to "Diagnosis" functions.

Contents

"Contents" represents the current version for vehicle data included in GDS.

ECU Upgrade

"ECU Upgrade" represents version that ECU upgrade events that are included which can be done using the GDS.

Internet update

Starts "Smartupdate.exe" program manually to download available internet update

VCI

VCI DLL

Displays the latest VCI firmware stored in the PC.

VCI Firmware

"VCI Firmware" item represents the version of the "Firmware" in the VCI module.

VCI Firmware Update

It is a function for downloading the latest VCI Module "Firmware". It establishes settings for the communication between the PC and VCI through a USB cable (does not support WLAN for the Update), and downloads the latest "Firmware" from the PC to the VCI module when the user presses the "VCI Update" button.

VMI**VMI DLL**

“VMI Firmware” item represents the version of the “Firmware” in the VMI module.

VMI Firmware

“VMI Firmware” item represents the version of the “Firmware” in the VMI module.

VMI Update

Updates the VMI firmware with the latest VMI firmware available in the PC.

TPMS**TPMS Firmware**

Displays the latest TPMS firmware stored in the PC.

TPMS DAT

“TPMS Firmware” item represents the version of the “Firmware” in the TPMS module.

TPMS Update

Updates the TPMS firmware with the latest TPMS firmware available in the PC.

Wireless Config

VCI module ID, for communication with PC, must be established in order to communicate using Wireless LAN.

If more than one VCI module are used in one workshop that uses same ID, then there may be an IP conflict in WLAN communication. Therefore, it is necessary to use a distinctive ID for each VCI module.

Check the ID setting on the VCI module by clicking "Read VCI Setting" button. It will read the ID for a VCI module currently connected to the PC through the USB cable.

Next, choose ID from 1 to 15, and click "Save VCI Setting" button to check and modify the VCI module ID.

After the ID change, attach the matching color label on the back of the VCI module.

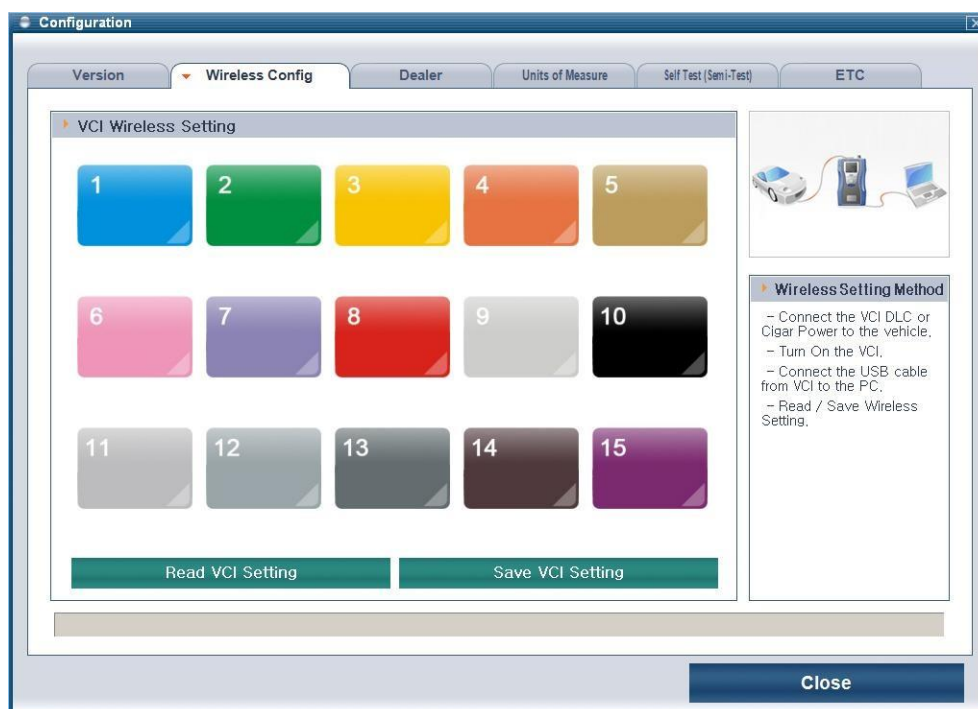


Figure 2. Configuration – Wireless Config

Dealer

User Information

"Dealer" function shows and modifies information of current GDS dealer. The items shown in the "Dealer" function are "Region", "Distributor Name", "ID", "Name", "Telephone Number", "e-mail" and "Address".

Displayed information is automatically entered when "Recertification" is successfully done.

Language

This function can be used to change Language settings in GDS. After clicking the "Save" button, the selected language will be applied. All menus in the initial page of GDS and diagnosis information and contents will be shown in changed language. (If the contents are not translated, it will be shown in English.)

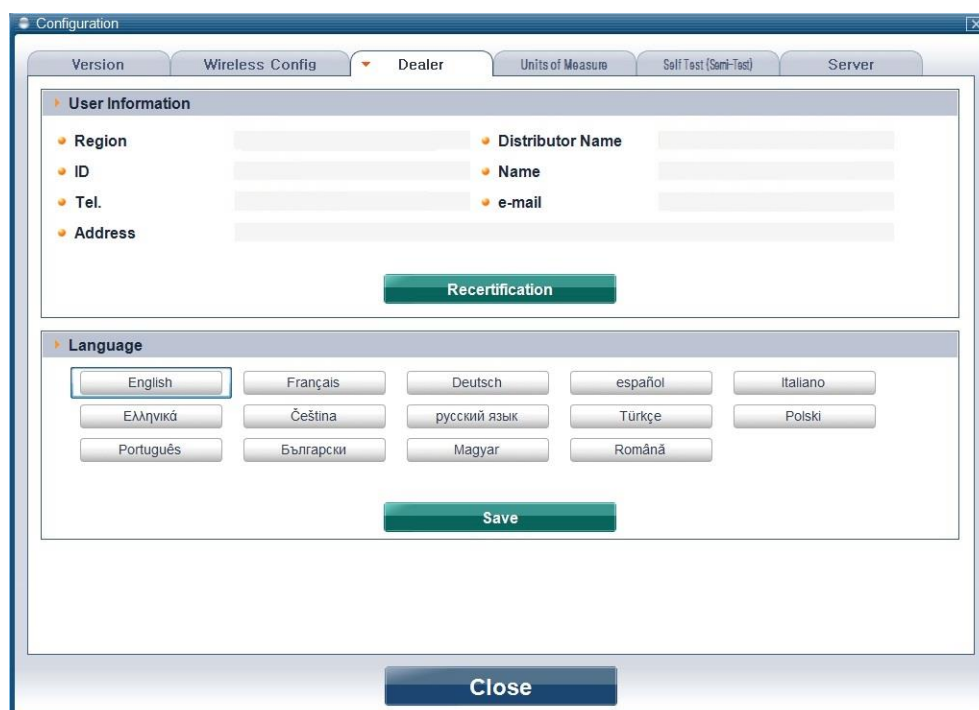


Figure 3. Configuration - Dealer

Unit of measure

Units that are used in GDS can be selected at user's preference.

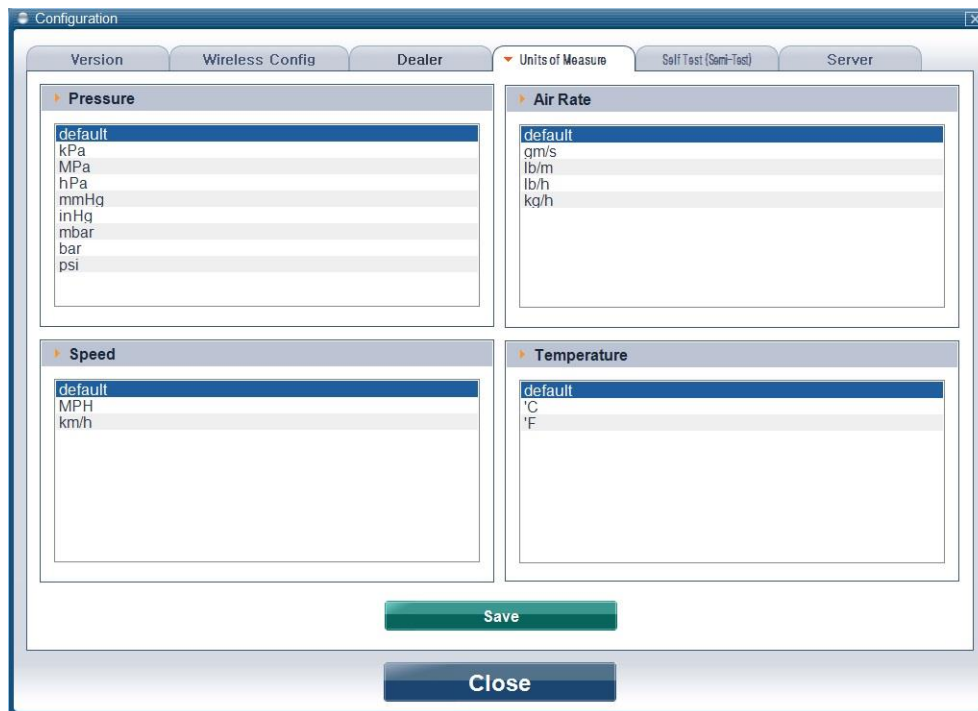


Figure 4. Configuration – Unit of Measure

VCI Self Test (Semi-Test)

STEP-A

The purpose of STEP-A is to self-test the VCI main module. This self-test function does not test all the VCI circuits. For more information see chapter A-01-006 Self-test adapter Use. In step-A the VCI gets power through the self-test adapter and DLC main cable, and only tests specific communication circuits.

The test method follows as below.

1. Connect VCI main module and PC with USB cable.
2. Connect VCI and Vehicle's OBD-II Connector with DLC cable and Self Test Adaptor on the end of the cable. (OBD-II side)
3. Turn on the VCI main module by pressing Power Button.
4. Select Start Button in the STEP-A of the program Window.
5. Fix problem according to the result message shown after the test.
(Test will take few seconds.)

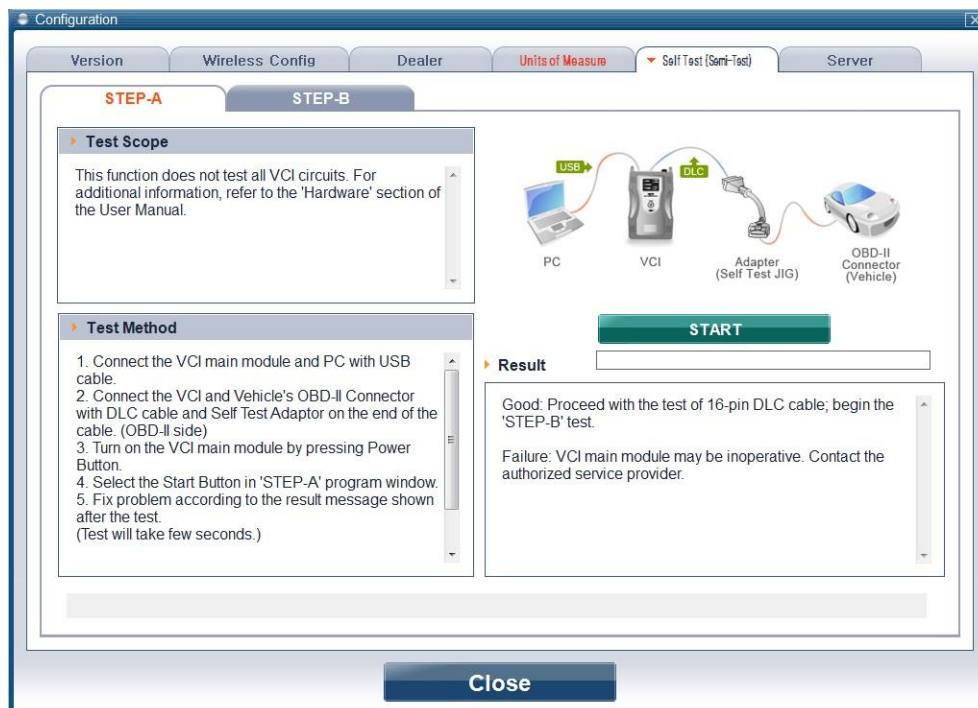


Figure 5. VCI Self Test STEP-A

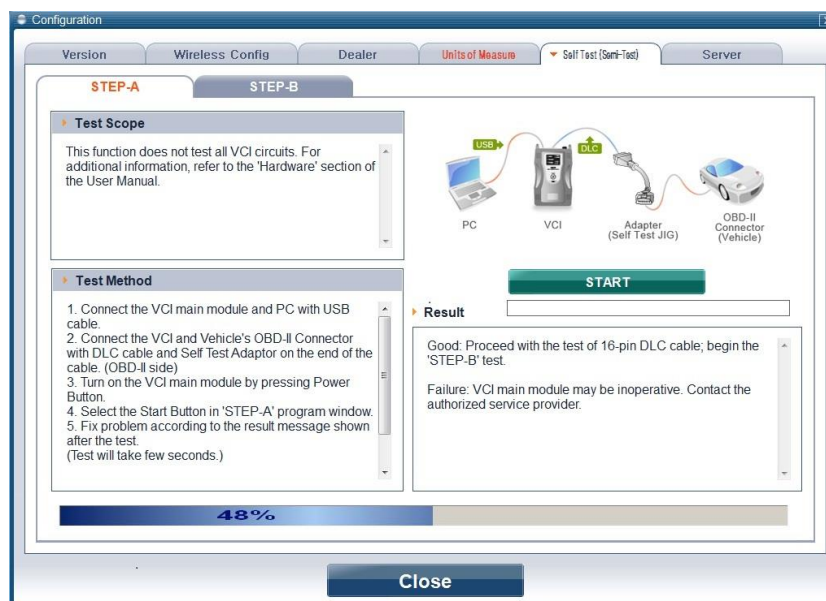


Figure 6. VCI Self Test STEP-A Processing

1. Fix problem according to the result message shown after the test.(Test will take few seconds).

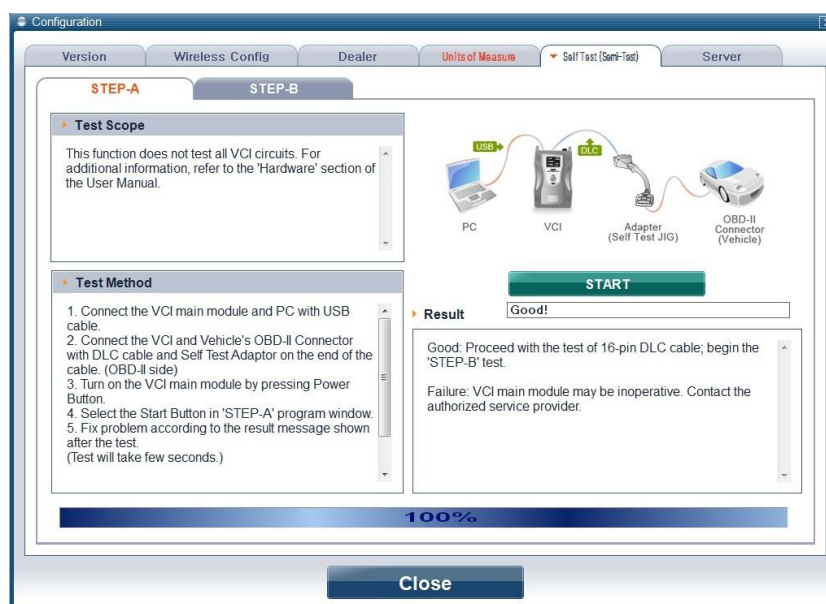


Figure 7. VCI Self Test STEP-A Complete

The explanation for results follows as shown below.

Good: Proceed with the test of 16-pin DLC cable; begin the "STEP-B" test.

Failure: VCI main module may be inoperative. Contact the authorized service provider.

STEP-B

The purpose of STEP-B is to self test 16pin main DLC cable after VCI main module is judged to be normal through Step-A. This self-test function does not test all of VCI. For more information of self-test function, see chapter A-01-006 Self test adapter of supplied User Manual. On step-B, VCI get power through self-test adapter and DLC main cable, and test open circuit and short circuit of communication lines of DLC main cable except power and ground line.

The test method follows below.

1. Setup VCI, PC, and cables as done in STEP-A.
 2. Turn on the VCI main module by pressing Power Button.
 3. Select Start Button in the STEP-B of the program view.
 4. Fix problem according to the result message shown after the test.
 5. Fix problem according to the result message shown after the test.
- (Test will take few seconds.)

**** Notice ****

Self Test Adaptor is only used for VCI self test. It should not be used for vehicle diagnosis.

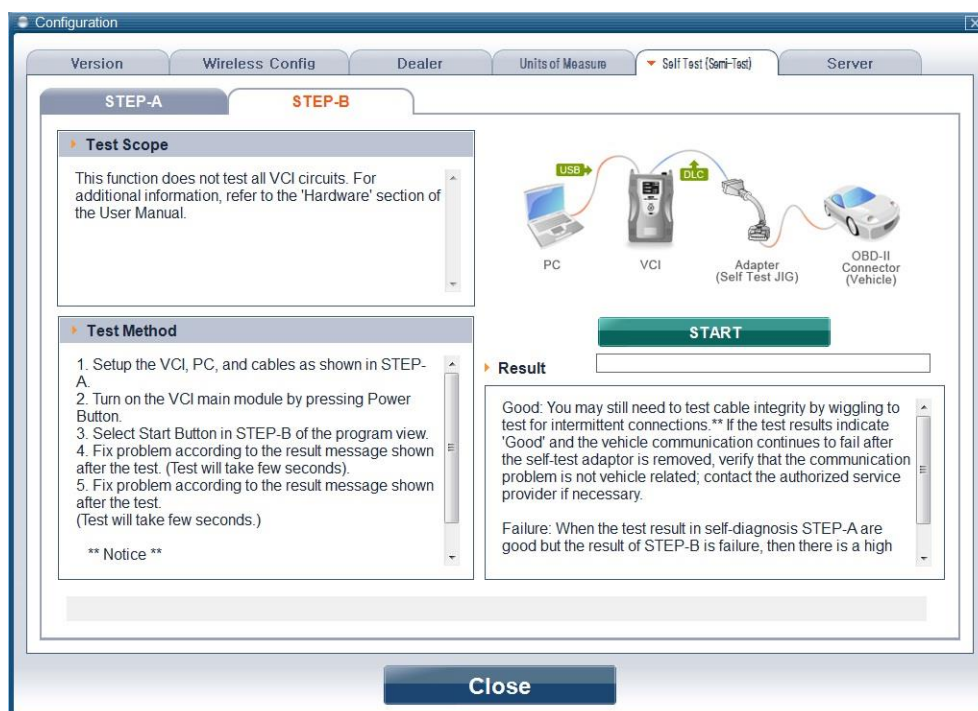


Figure 8. VCI Self Test STEP-B

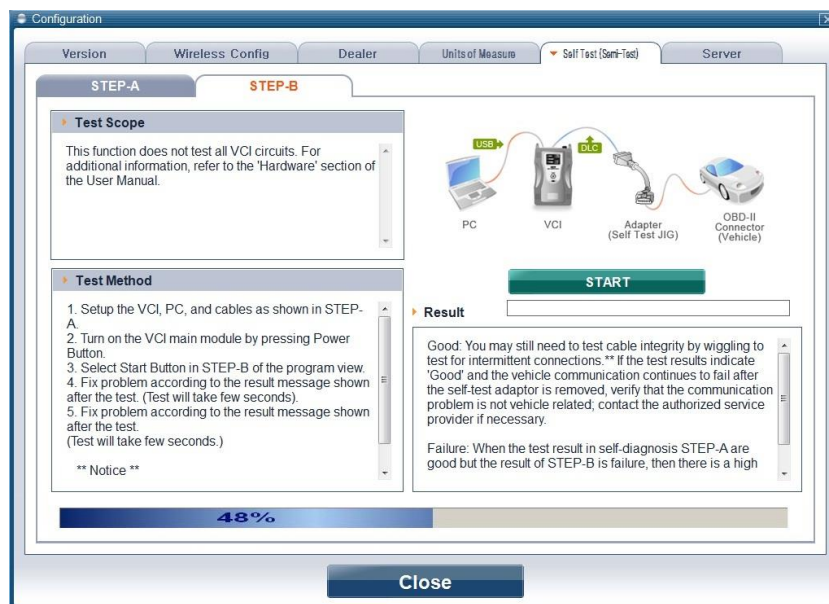


Figure 9. VCI Self Test STEP-B Processing

4. Fix problem according to the result message shown after the test.

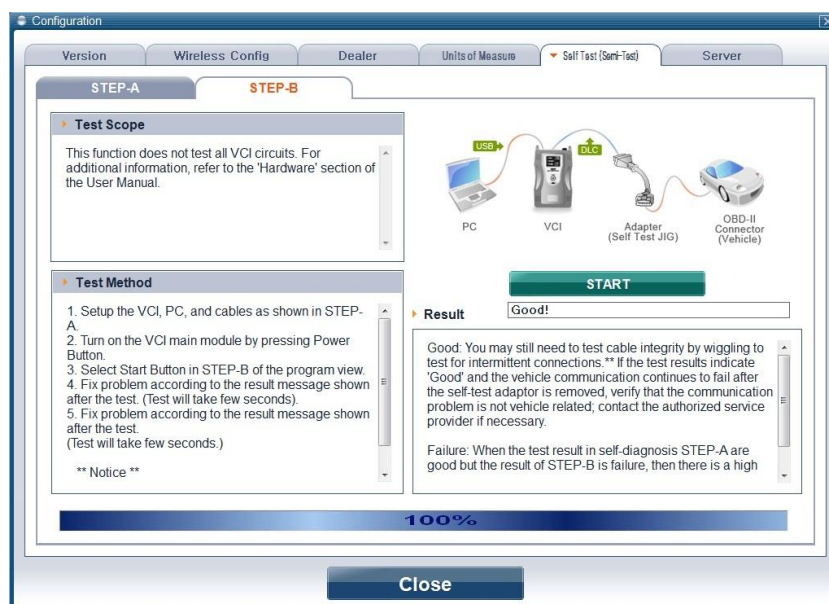


Figure 10. VCI Self Test STEP-B Complete

Module: A-02-006 (p.11)

The test result messages are explained below:

Good: You may still need to test cable integrity by wiggling to test for intermittent connections.

** If the test results indicate "Good" and the vehicle communication continues to fail after

the self-test adaptor is removed, verify that the communication problem is not vehicle related; contact the authorized service provider if necessary.

Failure: When the test result in self-diagnosis STEP-A are good but the result of STEP-B is failure, then there is a high possibility that the 16-pin DLC cable is inoperative. Contact the authorized service provider.

Server

It is possible in "Server Connection" to assign web system URL that appears when a user selects "Global Service Way" menu in the initial page. It is also possible to assign URL and IP address for GDS "Software Update".

The "Global Service Way URL" and "S/W Update Server URL" are pre-set at initial installation. These items may be modified if needed.

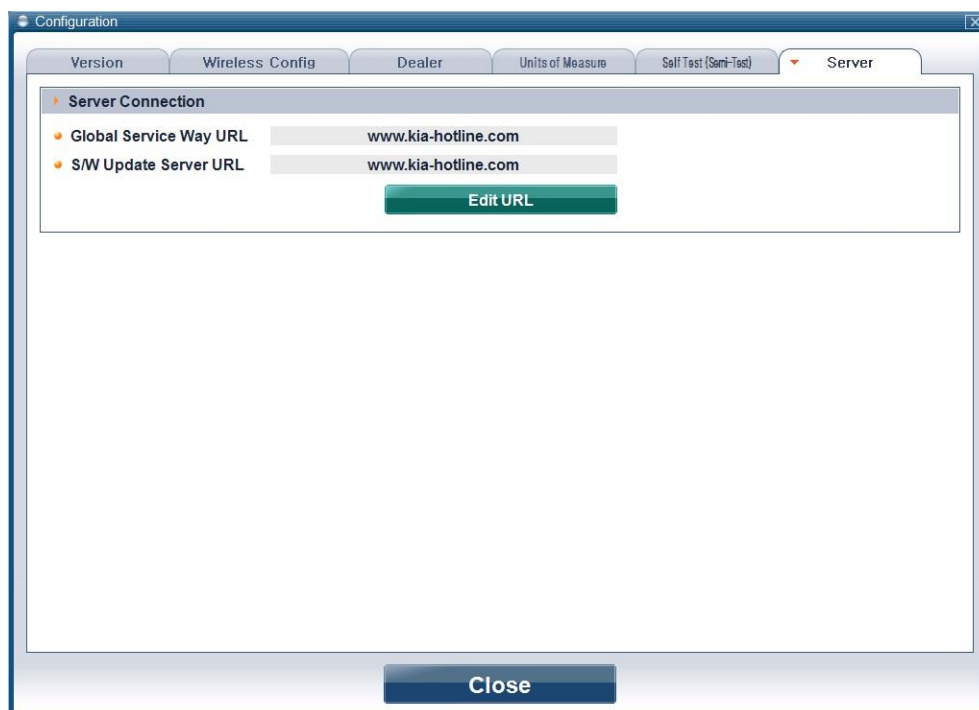


Figure 11. Configuration - Server Connection

Setup for Searching

“Search” functions can give various search criteria to view the desired information from the GDS supported contents.

There is a change in screen display as shown in [Figure 1] when “Search” button is clicked at the GDS initial page. Users should always select a Model and Year. (Too much time may be required for a search without any criteria selected.)

Click “Search” button after all the criteria setting and keyword input is made. Search Results will appear on the lower section of the page.

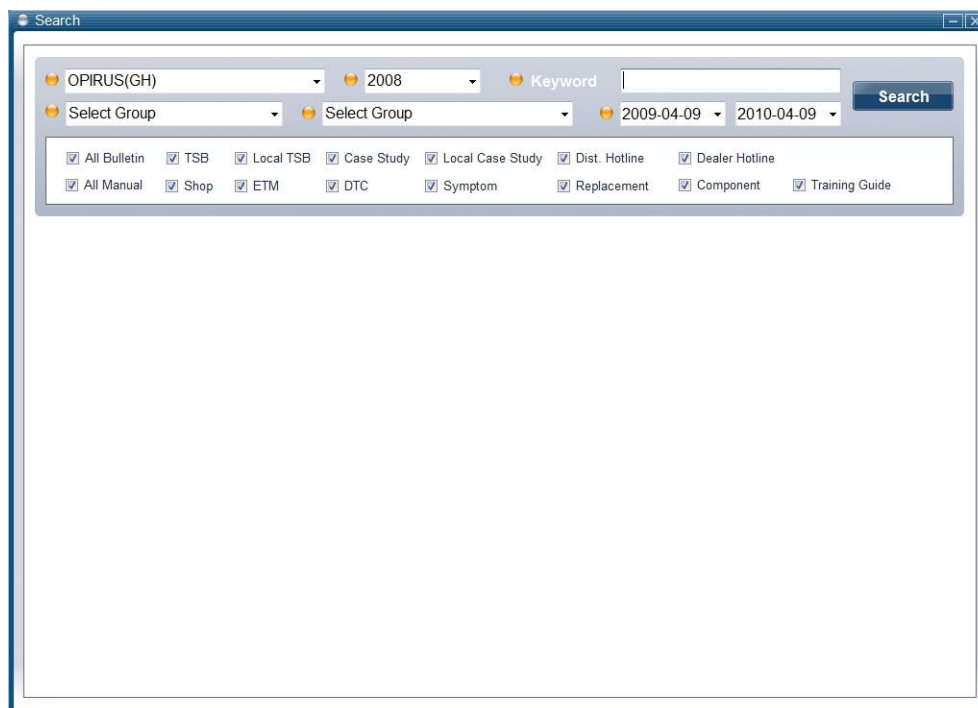


Figure 1: Selecting criteria for a search

Next step is to select an information category to be searched. The available categories are "All Bulletin", "TSB", "Local TSB", "Case Study", "Local Case Study", "Dist. Hotline", "Dealer Hotline", "All Manual", "Shop", "ETM", "DTC", "Symptom", "Replacement", "Component", and "Traning Guide". It is possible to choose more than one, however it may cause a longer search time.

It is also possible to assign criteria to a specific group and symptom. The groups are Body "Electrical System", "Brake System", "Fuel System", and etc. The symptoms are "Engine Stalls", "Hard/No Start", "Improper Exhaust gas", and etc. Further more, there is a search criteria that filters to see Bulletin information of less than one year, or see all.

Click "Search" Button after all the criteria setting and keyword input is made. Search Results will appear on the lower section of the page.

Search Result

The sample screen below shows the search results. Each category chosen will have the number of results found displayed next to the category title. Clicking on a category will show/hide the available sub-categories.

The screenshot shows a search interface with the following details:

- Search Criteria:**
 - Model: OPIRUS(GH)
 - Year: 2008
 - Keyword: engine
 - Category: All
 - Date Range: 2002-04-09 to 2010-04-09
 - Search Button
- Selected Categories (all checked):**
 - All Bulletin, TSB, Local TSB, Case Study, Local Case Study, Dist. Hotline, Dealer Hotline
 - All Manual, Shop, ETM, DTC, Symptom, Replacement, Component, Training Guide
- Search Results Table:**

Category	Date	Model	Subject
TSB(12)			
Local TSB(0)	7/4/2006	OPIRUS(G...	CHANGE OF SIGMA ENGINE CYLINDER HEAD COVER BOLT
Case Study(0)	7/21/2008	OPIRUS(G...	CAUTION WHEN REMOVING LAMBDA ENGINE OIL FILTER ELEMENT
Local Case Study(0)	5/8/2007	CARNIVAL...	CHANGE OF BAFFLE PLATE FOR LAMBDA ENGINE
Shop(100)	4/3/2008	OPIRUS(G...	ABNORMAL NOISE FROM TIMING CHAIN TENSIONER OF LAMBDA ENGINE
ETM(1)	4/25/2007	OPIRUS(G...	NEW PARTS INFORMATION FOR DELTA ENGINE CYLINDER BLOCK
DTC(100)	3/26/2008	OPIRUS(G...	ABNORMAL NOISE FROM TIMING CHAIN TENSIONER OF LAMBDA ENGINE
Symptom(100)	3/24/2008	SPORTAG...	CHANGE OF DELTA ENGINE CYLINDER BLOCK AND OIL SEAL CASE
Replacement(0)	2/19/2008	OPIRUS(G...	CHANGE OF LAMBDA ENGINE CONNECTING ROD AND CRANKSHAFT
Component(0)	12/1/2008	SOUL(AM)...	API SERVICE CLASSES OF ENGINE OIL FOR KIA GASOLINE CARS
Training Guide(0)	10/30/2003	VQ16,SOR...	Revising the inspection method for Ignition coil of 3.5L engine
Dist. Hotline(internet)	10/20/2009	SOUL(AM)...	CAUTIONS DURING A/D/U DIESEL ENGINE INJECTOR REPLACEMENT
Dealer Hotline(internet)	1/23/2008	SORENTO(...	CHANGE OF ENGINE OIL FILTER SERVICE KIT

Figure 2: Search results

Contents Open

[Figure 3] Sample screen showing search results within content.

The screenshot shows a window titled 'Contents' with a search result for a bulletin. The bulletin details are as follows:

Subject	CHANGE OF SIGMA ENGINE CYLINDER HEAD COVER BOLT		
Model	OPIRUS(GH), SORENTO(BL), VQ16-all		
No.	KT2006070401	TSB Type	General
Language	English	Distributor	TEEF
Date	07/04/2006	Modified	
Area		Group Code	Engine Mechanical System
System Code	Lubrication System	Component Code	Engine Oil

Diagnosis

The type of cylinder head cover bolts of Sigma and Omega engines has been changed from "Bolt washer" to "Bolt". Therefore, this bulletin is issued to provide changed part information as below. Please refer to the below when servicing.

1) Vehicles affected

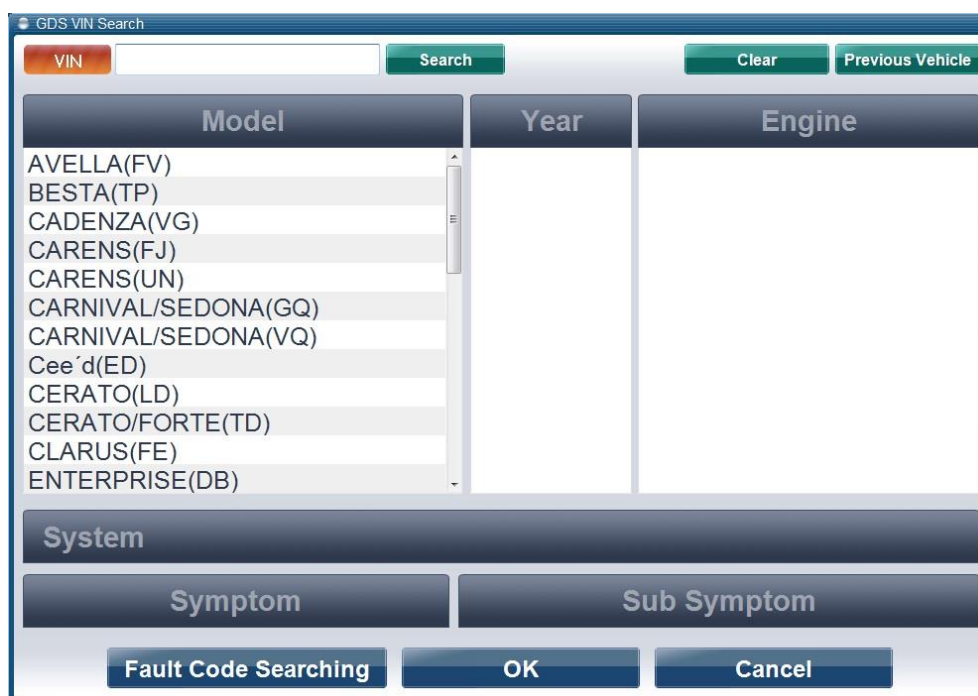
- Model: SORENTO(BL), OPIRUS/AMANTI(GH) and CARNIVAL(GQ) with Sigma engine
- Affected vehicle production date: Produced from Job #1 ~
- Area: All

2) Part Information

Part name	Part no.		Remark
	Previous	New	
	22460-39810	22460-39811	

Figure 3: Contents open

All the functions of GDS can be used after the "Vehicle Selection". "Vehicle Selection" window appears as shown in [Figure 1] after clicking the "VIN" button at the initial page.



The screenshot shows the "GDS VIN Search" window. At the top, there is a "VIN" input field with a "Search" button to its right, and "Clear" and "Previous Vehicle" buttons further right. Below this is a table with three columns: "Model", "Year", and "Engine". The "Model" column contains a list of vehicle models: AVELLA(FV), BESTA(TP), CADENZA(VG), CARENS(FJ), CARENS(UN), CARNIVAL/SEDONA(GQ), CARNIVAL/SEDONA(VQ), Cee'd(ED), CERATO(LD), CERATO/FORTE(TD), CLARUS(FE), and ENTERPRISE(DB). Below the table is a "System" section with "Symptom" and "Sub Symptom" labels. At the bottom, there are three buttons: "Fault Code Searching", "OK", and "Cancel".

Model	Year	Engine
AVELLA(FV)		
BESTA(TP)		
CADENZA(VG)		
CARENS(FJ)		
CARENS(UN)		
CARNIVAL/SEDONA(GQ)		
CARNIVAL/SEDONA(VQ)		
Cee'd(ED)		
CERATO(LD)		
CERATO/FORTE(TD)		
CLARUS(FE)		
ENTERPRISE(DB)		

System

Symptom Sub Symptom

Fault Code Searching OK Cancel

Figure 1. Vehicle selection

VIN Selection

There are 2 ways to select vehicles.

- To input Vehicle Identification Number combined in 17-figure code combined with letters and numbers.
- To select vehicle, model year, and engine manually.

Input of VIN

Using manual VIN entry, type the full 17-digit VIN in the box and click the "Search" button. The model, model year, engine configuration and supported systems will display as shown in Figure 2.

The screenshot displays the 'GDS VIN Search' window. At the top, there is a text input field for the VIN containing 'KNAME224375063222', a 'Search' button, and 'Clear' and 'Previous Vehicle' buttons. Below this, three dark blue buttons show the vehicle details: 'Optima/Magentis(MG)', '2007', and 'G 2.7 DOHC'. A 'System' section follows, divided into 'Select System' and 'Selected System'. The 'Select System' area contains nine icons with labels: ENGINE, A/T, ABS, AIRBAG, AIR/CON, ECS, BCM, IMMO, and CODE. The 'Selected System' area is currently empty. At the bottom, there are two tabs: 'Symptom' and 'Sub Symptom'. Below these tabs are three buttons: 'Fault Code Searching', 'OK', and 'Cancel'.

Figure 2. VIN Input – full VIN

The last 6 digits may be entered in the box if desired; a separate screen will appear that prompts for specific vehicle selection as shown in Figure 3.



Figure 3. VIN Input – last 6 digits

Method to select vehicle, model year and engine

Select "Vehicle", "Model year", and "Engine" in each section for a vehicle, and supported systems will be displayed as shown. VIN-specific functions will not work if this method is used.

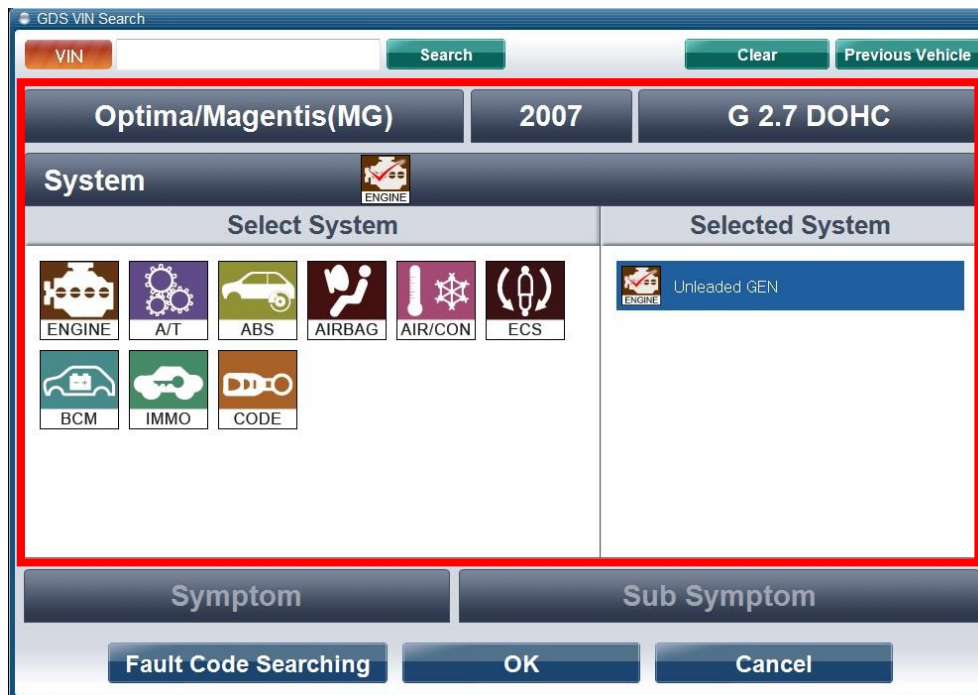


Figure 4. Direct selection for vehicle, Model Year and Engine

Control Module Selection for Diagnosis and Fault Code Searching

Selection of control module(s) for diagnosis

After selecting the "Vehicle" model, "Year" and "Engine", as shown in the [Figure 4], available Systems for the selected vehicle are listed. Selected systems will be included in the area of "System" and first selected system becomes the first priority for diagnosis function.



Figure 5. System Selection – A single system (Engine) selected.



Figure 6. System Selection – Multiple systems selected.

Changing the selected Systems or removing from the list.

To change the default system from the list, click the desired system once from the list. and to remove system from the list, do a double click on the system that you wish to remove or click once from the "System Area".



Figure 7. System Selection – Changing the default system.

Selection of correct vehicle DLC cable

After selection of the vehicle and control module, a window, which displays the DLC cable and a description of the selected vehicle test conditions, appears below.



Figure 8. Information Window

Procedures for fault code searching functions

By Setting and running "Fault Code Searching" function in the "Vehicle Selection" users can automatically diagnose a DTC during the use of another GDS function using the communication between the VCI and a vehicle.

The progress status for the Fault Code Searching will be displayed on the top of the "Fault Code Searching" icon, which is located on the lower section of the GDS screen.

It will be displayed as shown in [Figure 10-1] when there is a communication with the assigned module. When there is a DTC in any of the module, the icon will be displayed as shown in [Figure 10-2]. DTC list can be checked by clicking the icon in the state of [Figure 10-3].

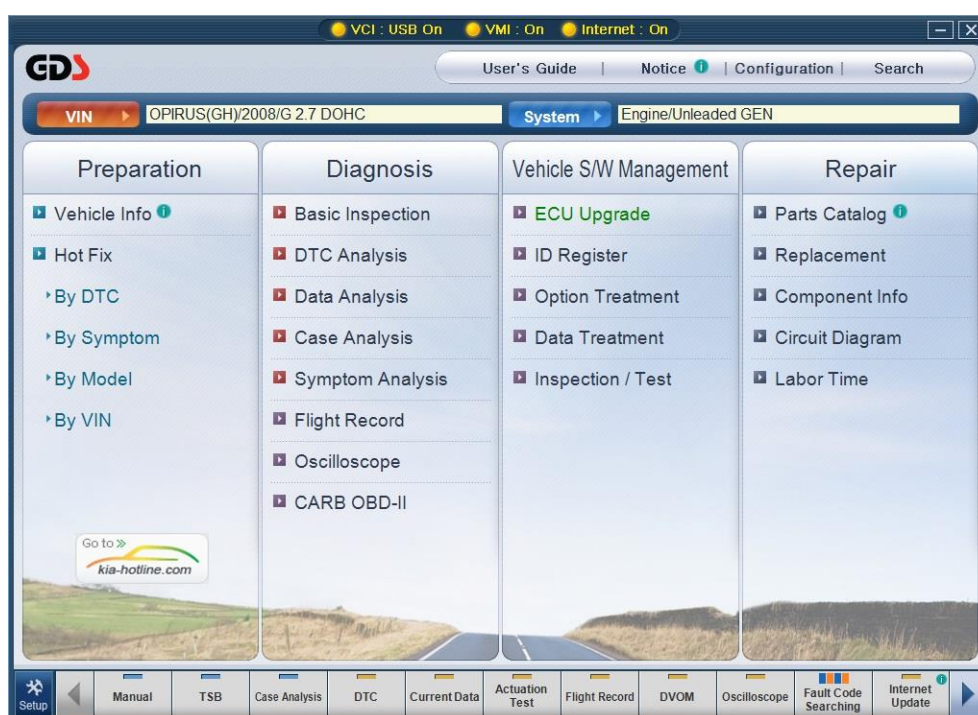


Figure 9. Process and result for fault code searching



Figure 10-1



Figure 10-2

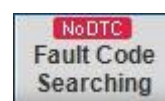


Figure 10-3

The Fault Code Searching window has five buttons:

- "Go to Hot Fix" will cause the GDS to search for data based on the DTCs retrieved from the vehicle after a DTC is clicked
- "Go to DTC Analysis" will access the related ECU after a DTC is clicked.
- "Retry Fault Code Searching," repeats the DTC check on the systems previously selected.
- "All Erase" button deletes all the DTC codes that are detected by Fault Code Searching function.
- "Stop" button can be used to stop fault code searching function after selecting various systems from the "VIN Selection".
- "Print" either prints the DTC codes found or saves screen capture of the DTC codes found.
- "Close" closes the window; the window may be displayed again by clicking on the "Fault Code Searching" button at the bottom of the screen.

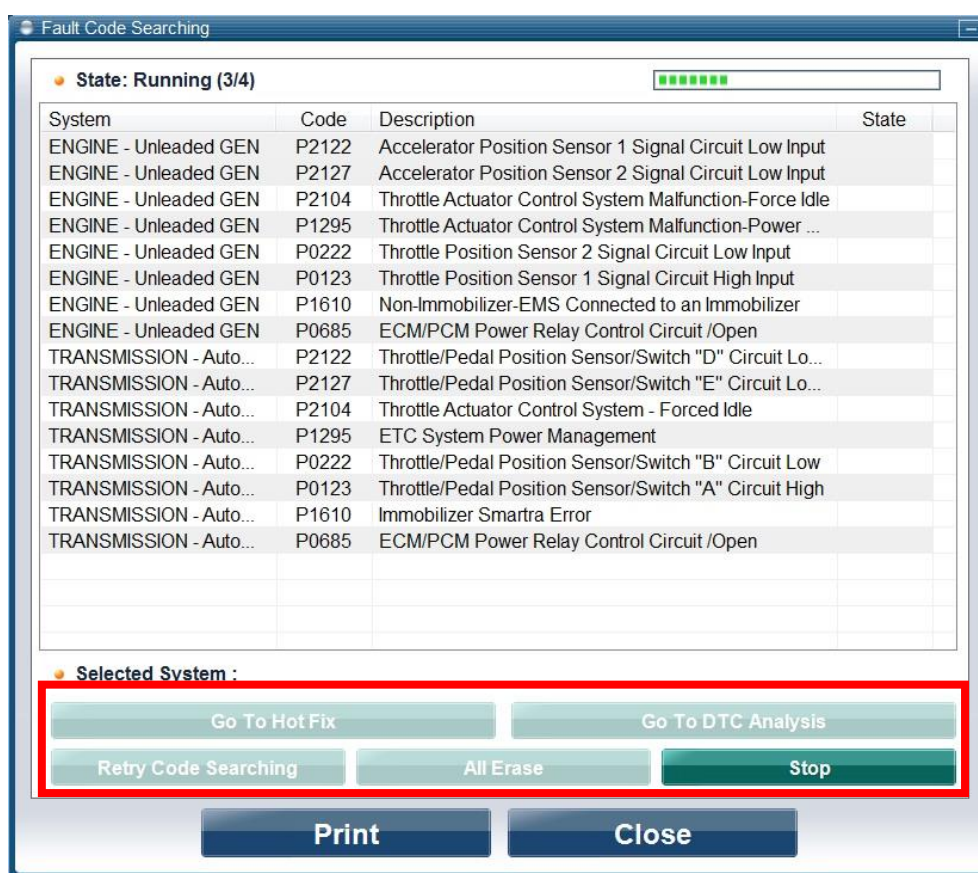


Figure 11. Fault Code Searching window

Trouble symptoms selection

Select and input vehicle symptom in the “Symptoms in this vehicle” section on the “Vehicle Selection” window. Selection Menu on the left can be categorized into groups of “Engine”, “Transmission”, and “Brake”. The right menu is for the selection of symptom for the selected group on the left. The symptoms are “Hard/No starts”, “Idle-irregularity”, “Engine Stall” and etc. If there is more than one symptom, it is possible to choose symptoms in addition. Double click the item to remove from the selected symptoms.

It is possible to use “By Symptom” function in the “Bulletin” menu at the initial page after the completion of vehicle symptom input. “Symptom Analysis” function in the “Guide Diagnosis” menu can also be used.

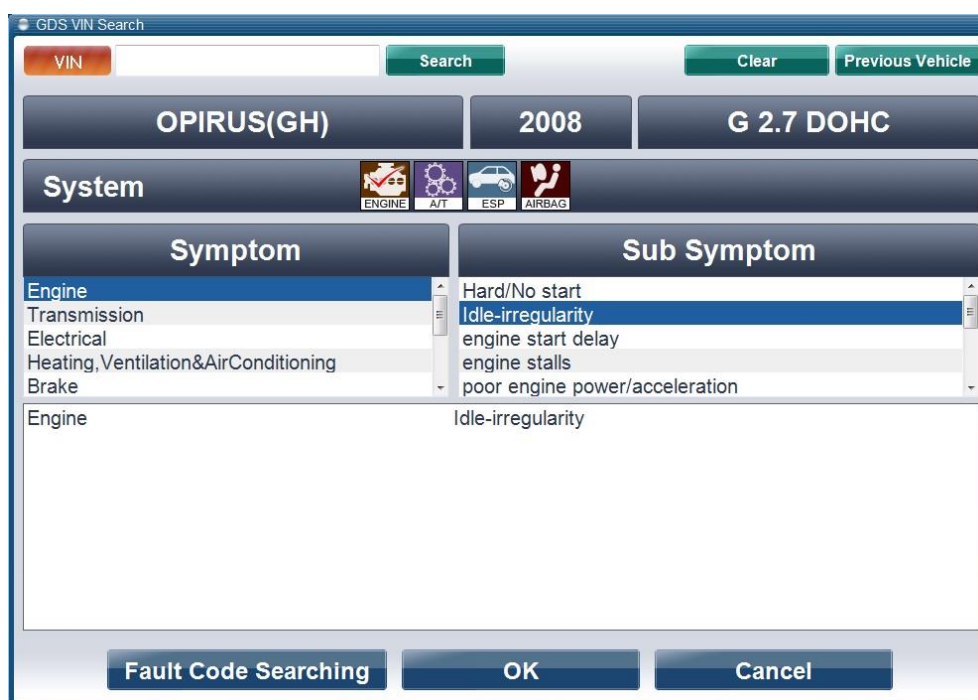


Figure 12. Input of Symptoms and Comments

In addition, a window will display showing a breakdown of each selected system's DTC contents. This window will also indicate if no DTC data was found or if a communication failure is present. (ECU communication failures may be due to an actual communication problem OR if a system was selected that is not fitted to the vehicle being checked.)

Trouble Symptoms Selection

Select vehicle symptoms from the system and symptom drop-down boxes as shown.

The screenshot shows the 'GDS VIN Search' application window. At the top, there is a 'VIN' input field with a 'Search' button and 'Clear' and 'Previous Vehicle' buttons. Below this, vehicle details are displayed: 'OPIRUS(GH)', '2008', and 'G 2.7 DOHC'. A 'System' section contains icons for ENGINE, A/T, ESP, and AIRBAG. The main area is divided into two columns: 'Symptom' and 'Sub Symptom'. The 'Symptom' column lists various systems, with 'Engine' selected. The 'Sub Symptom' column lists specific issues for the selected symptom. A red box highlights the 'Engine' symptom and its corresponding sub-symptoms: 'Idle-irregularity', 'engine start delay', and 'engine stalls'. At the bottom, there are buttons for 'Fault Code Searching', 'OK', and 'Cancel'.

Symptom	Sub Symptom
Engine	Hard/No start
Transmission	Idle-irregularity
Electrical	engine start delay
Heating,Ventilation&AirConditioning	engine stalls
Brake	poor engine power/acceleration
Engine	Idle-irregularity
Engine	engine start delay
Engine	engine stalls

Figure 13. Input of Symptoms and Comments