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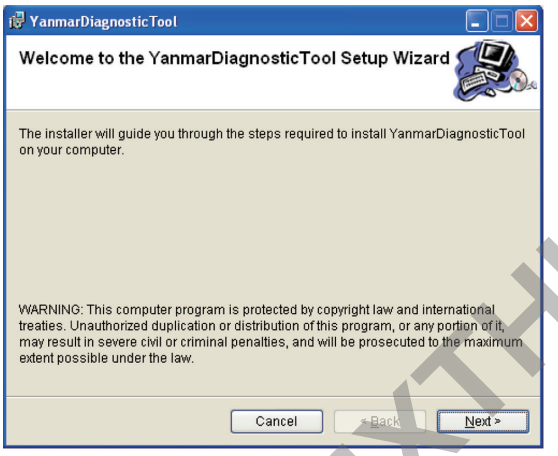
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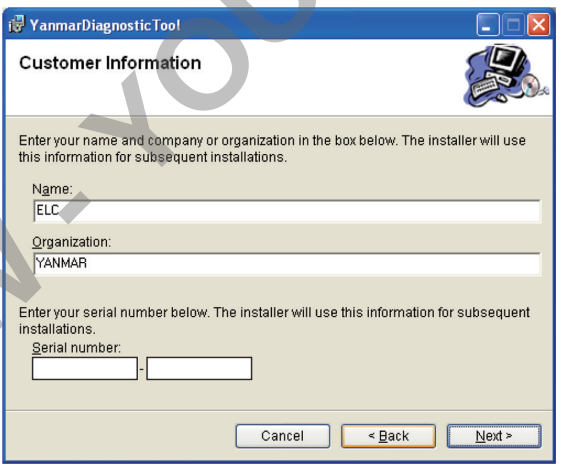
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3. Installing the Software

1) Log in as an administrator.
2) Run the Setup.exe file on the CD-ROM.
The screen as shown below appears.



Press the Next> button.
The screen as shown below appears.



Enter your name and organization. Enter the serial number of your product, and press the Next> button. If this number is not correct, the program does not operate normally.

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5.2 Quitting the Software

You can quit the program in the same way as other Windows applications.
Before you turn off the system, you need to quit the PC program.

① [×] or [File (F)] - [Exit] : The confirmation menu to quit the program appears.
② [Yes] : Click this button to quit the program.

Clicking the [Dis Conn] icon ③ stops communication temporarily without quitting the program. After adjusting the system, click the [Conn] icon again to continue monitoring.

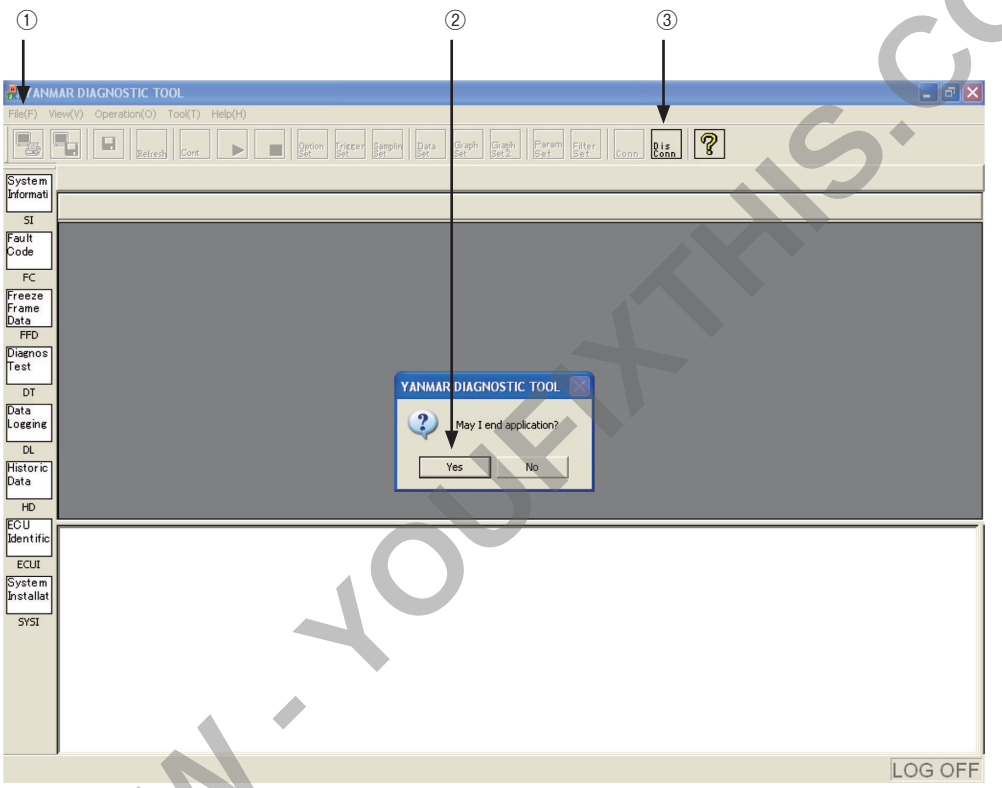


Figure 5.4 Confirmation Screen for Quitting the Program

5.3 Troubleshooting

If a communication error occurs and you cannot perform monitoring normally, check the following points, and restart the program. Note that, if a connector is disconnected or the system power is turned off, the system may not recover normally even if you restart the program. In this case, turn off the system once. If you cannot do so, disconnect the diagnostic connector from the service connecter, and then connect them again. This operation initializes the CPU inside the interface box, and restores the system operation.

① Isn't the cable disconnected? Isn't the cable broken?
② Is the system turned on?
③ Isn't the system in training mode?
④ Isn't the system in disconnect status?
⑤ Is the baud rate correct?

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7.2 Fault Code

This function is used to display current and past faults detected by the ECU. By clicking on the Screen Select tool bar, you can select Active Diagnostic Trouble Code or Logged Diagnostic Trouble Code.

7.2.1 Active Diagnostic Trouble Code 【Universal Function】

This function is used to list current troubles detected by the ECU in real time (automatically updated at intervals of 2 seconds). Trouble codes and their description are displayed. In the Notes field in the lower part of the screen, brief explanation and remedy for the trouble for the cursor line are displayed. When the cause of the trouble is removed and normal operation is restored, the trouble display on the screen disappears.

1) Operation tool bar

① : Prints a hardcopy of the screen.

② : Saves the screen in BMP format.

③ : Saves data on the screen in CSV format.

2) Main view

④ Code : Displays a trouble code (DTC) complying with SAE J2012.

⑤ Description : Displays the description of the trouble code.

⑥ Probable cause : Shows a probable cause of the trouble.

3) Comment view

⑦ "Probable cause", "Action" field : Shows the troubleshooting result for the trouble for the clicked cursor line (painted in light blue) as a guidance for required action.

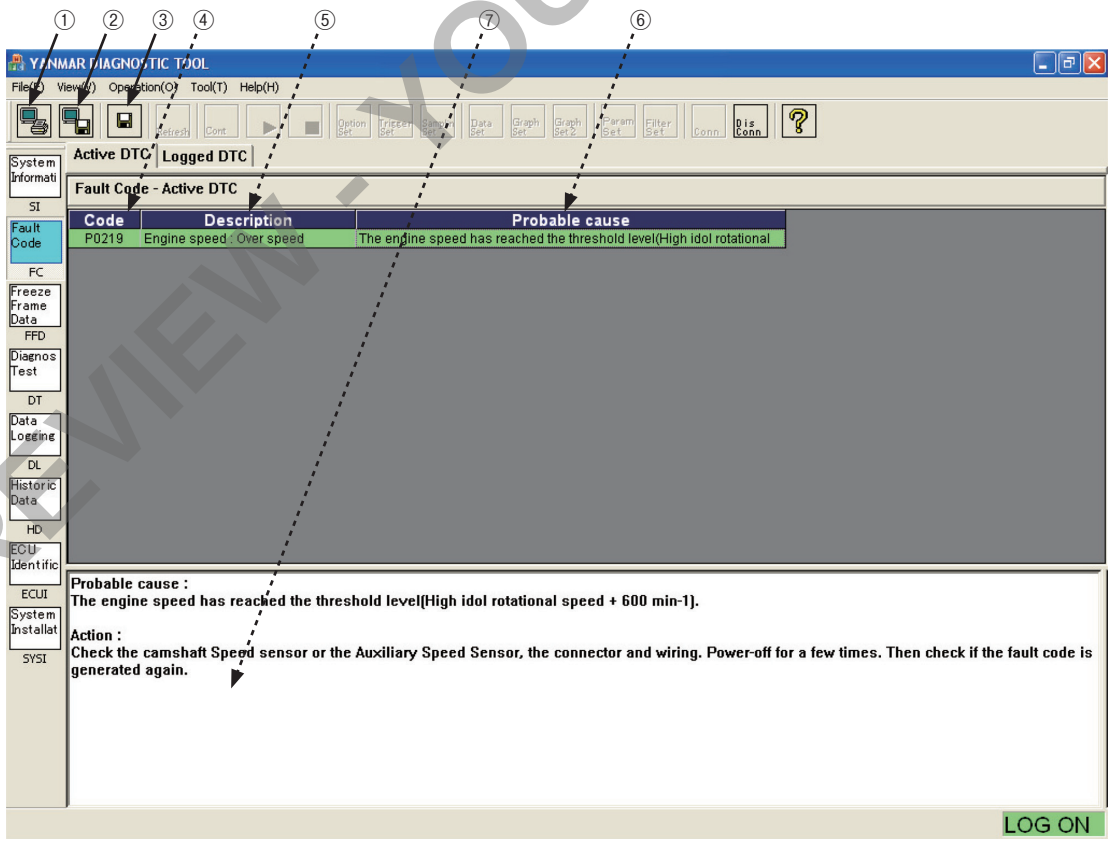


Figure 7-2 [Fault Code] - [Active Diagnostic Trouble Code] Screen

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7. Main Menu

7.1 System Information 【Universal Function】

7.1.1 System Information

The key system information stored in the ECU is displayed.

1) Operation tool bar

① : Prints a hardcopy of the screen.
② : Saves the screen in BMP format.
③ : Saves data on the screen in CSV format.
④ : Refreshes the system information.

2) Main view

⑤ Classification : Classification of a displayed item.
⑥ Description : Name of an item.
⑦ Value : Displays the system information.
⑧ Unit : Unit.

3) Comment view

⑨ "Notes" field : Displays notes.

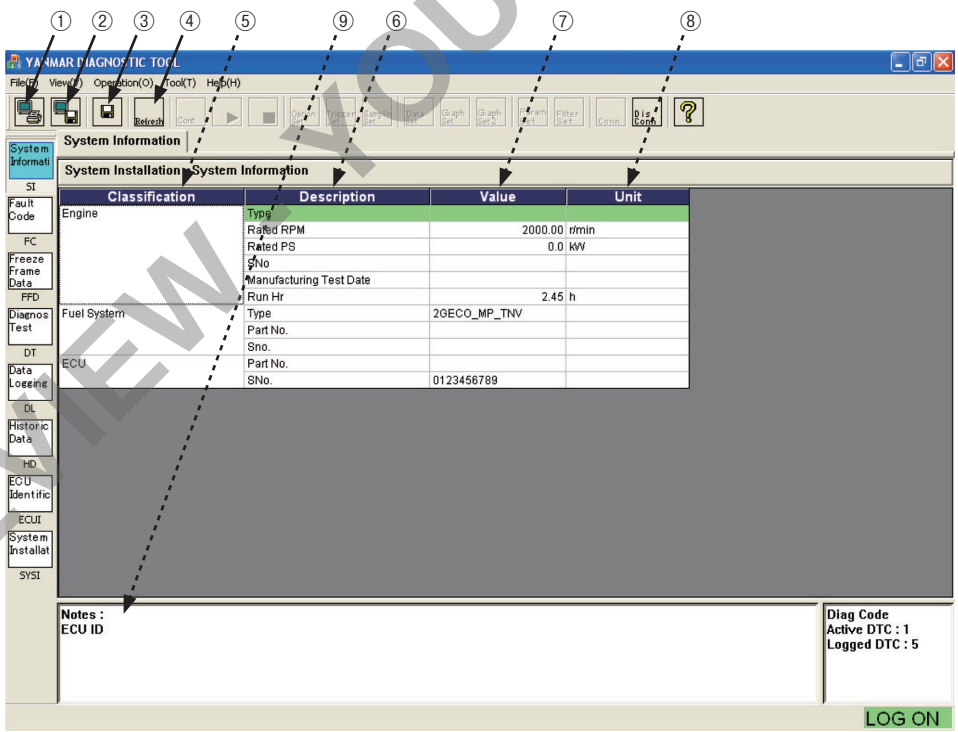


Figure 7-1 System Information Screen

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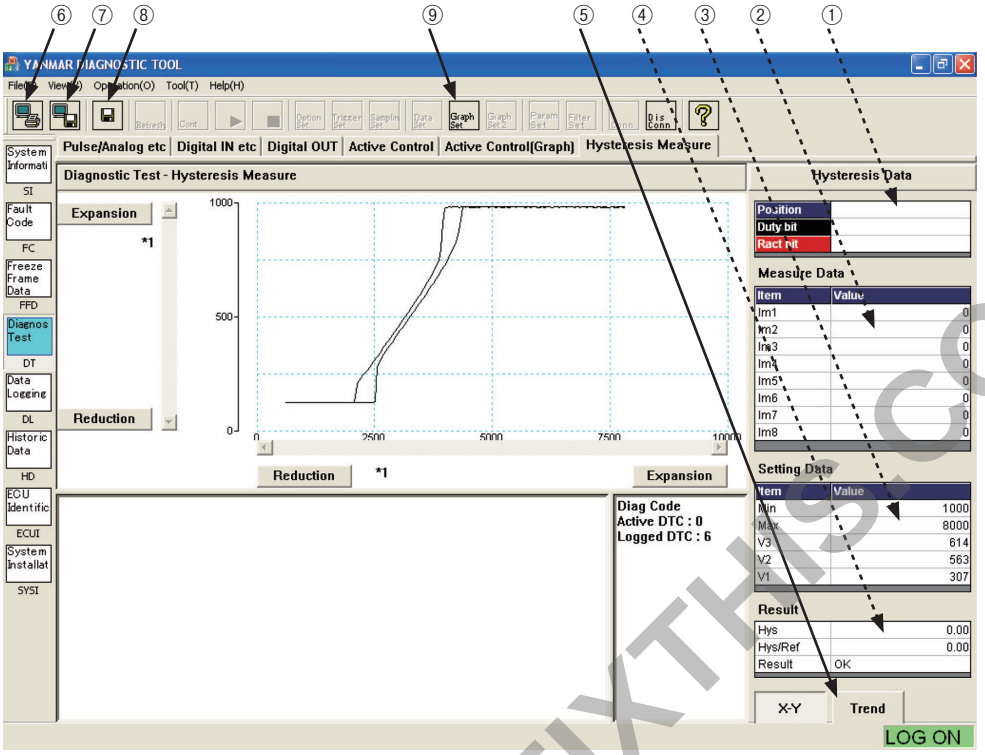


Figure 7-13 [Diagnostic Test] - [Hysteresis Measure] - [X-Y] Screen

< Trend graph > : The graph is displayed with the time (0.1 second/point) on the X axis and with the alternative value of the rack position (digital encode value of voltage) and the alternative value of the rack actuator electric current (pulse duty value) on the Y axis. You can see the deviation of the rack position relative to the electric current value(duty).

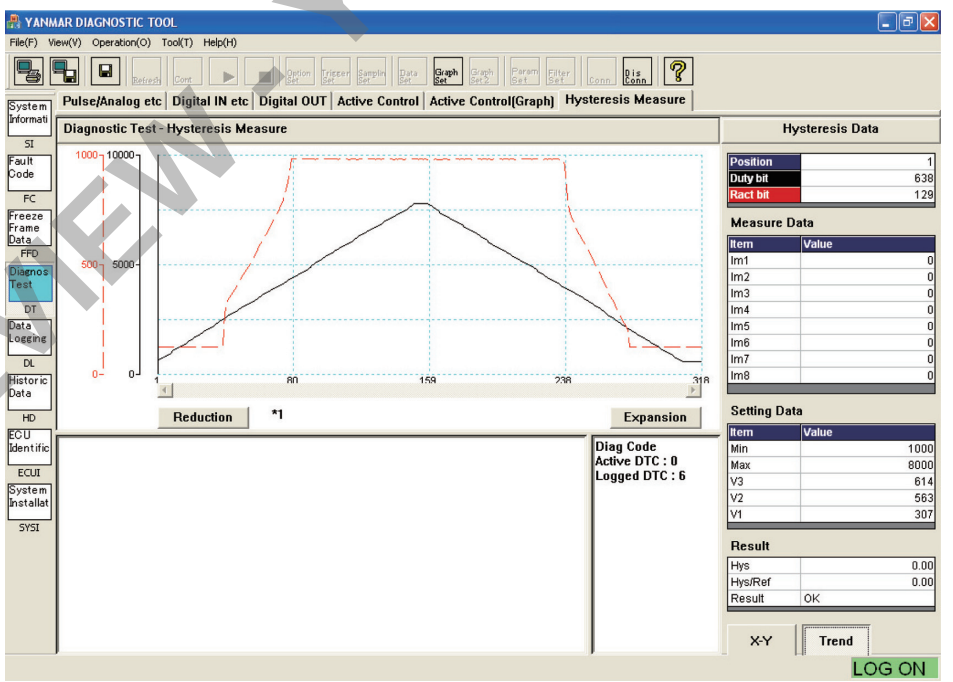


Figure 7-14 [Diagnostic Test] - [Hysteresis Measure] - [Trend] Screen

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7.8 System Installation

This function is required for the initial setting after installing the engine and repair, and installation and adjustment when replacing the ECU and so on. It consists of the Configuration, Calibration, and Tuning submenus. It also provides a function to create a report file after the completion of maintenance.

7.8.1 Configuration 【Mechanic Function】

This submenu provides the system initial setup function (not used for some models) and the function to copy (upload, download, and copy wizard) and rewrite the configuration file when replacing the ECU or pump.

1) Operation tool bar

①  : Prints a hardcopy of the screen.
②  : Saves the screen in BMP format.
③  : Saves data on the screen in CSV format.

2) Main view

This view displays a list of items you can set.

④ Description : Displays the setting item.
⑤ Value filed : Displays the current setting value. Clicking this field opens the Data Set window. To make any changes, you need to enter a password.
⑥ Notes : Displays reference information to enter the setting.

3) Data Set sub-window

⑦ Data Name : Displays the name of the item whose setting value is to be changed.
⑧ Present : Displays the current setting value.
⑨ Max : Shows the maximum value that can be set .
⑩ Current : Shows a value to be set.
⑪ Min : Displays the minimum value that can be set.
⑫ Note : Note.
⑬ ▲ / ▼ : Increases/decreases the setting value with one of the factors : 1, 10, or 100.
⑭ Set : Outputs the set data to the ECU.
⑮ Cancel : Cancels the set data and closes the sub-window.

4) Function buttons

⑯ Part exchange : Lets you enter configuration data (pump's serial number and injection quantity correction value <loading a file or entering it manually>, and caution for calibration input for timer correction value) when replacing the fuel injection pump.
⑰ ECU exchanges : Lets you copy the configuration data and save it in a file when replacing the ECU.

5) Configuration items that can be changed

- Not used for the basic specifications of the TNV

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