Appendix F

# TechView Guide

## Guide Contents:

TechView has been designed to assist technicians in quickly diagnosing vehicles by graphing Real-Time Data, Snapshot Data, DTC Information, OBD System Monitor, and Freeze Frame Data. The following guide will navigate you through the extensive features it has to offer.

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- Computer with TechView
- Vehicle

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11. Take Snapshot Data

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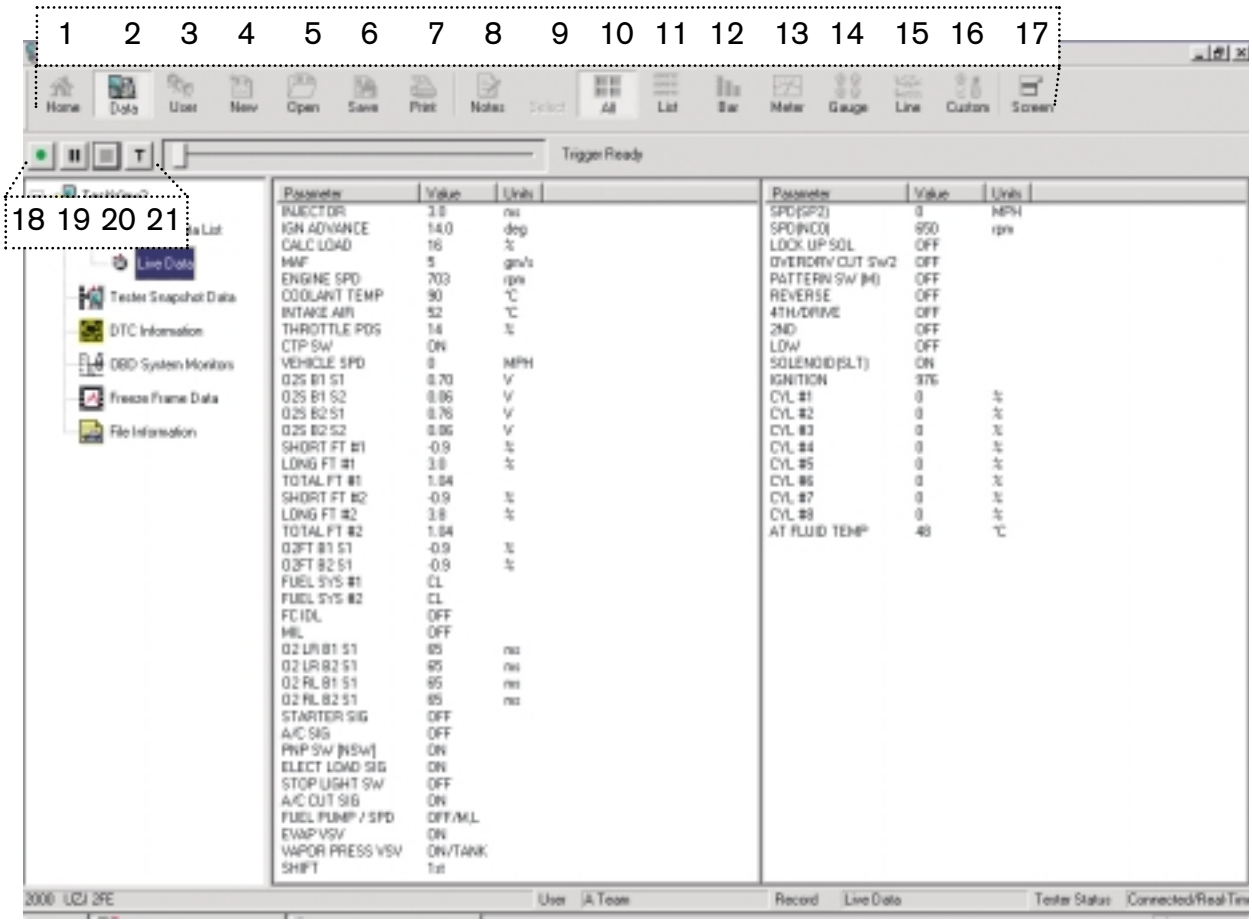
## Screen Commands Overview




1. Home Page
2. Select Data
3. Select User
4. Open New File
5. Open Existing File
6. Save File
7. Print File
8. Record Notes
9. Select Parameters
10. Select All Data
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13. Meter Graph
14. Gauge Graph
15. Line Graph
16. Custom Graph
17. Full Screen
18. Trigger
19. Pause
20. Stop
21. Trigger Setup

**NOTE: A Help button is also located at the top of the screen to aid in any questions.**

Fig. F-1

TL874fF01

## SECTION 1: Getting Started

1. Connect the Diagnostic Tester to DCL 3 in the vehicle. Place the Diagnostic Tester next to the TIS machine and plug the RS232 line into the tester. Turn the Diagnostic Tester ON and go into the Enhanced OBD II mode.

   **Note:** TechView supports serial and V-BoB data, but does not support NVH or oscilloscope data.

2. Create a new **User**. Follow the diagram below and enter your name. Having your own user name will keep your files separate from other technicians.

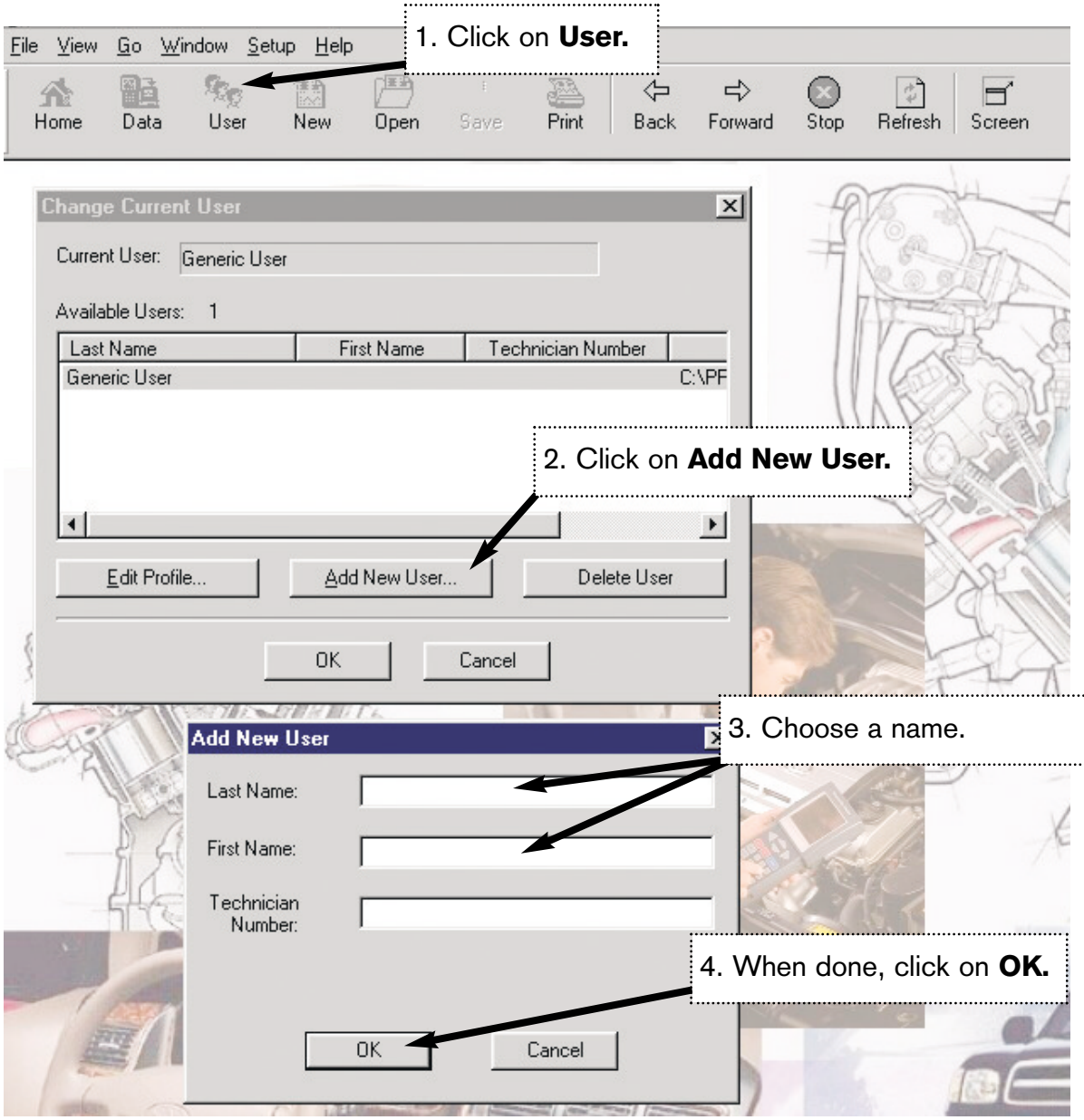


Fig. F-2
TL874fF02

2a. After creating a new User, open a New document.

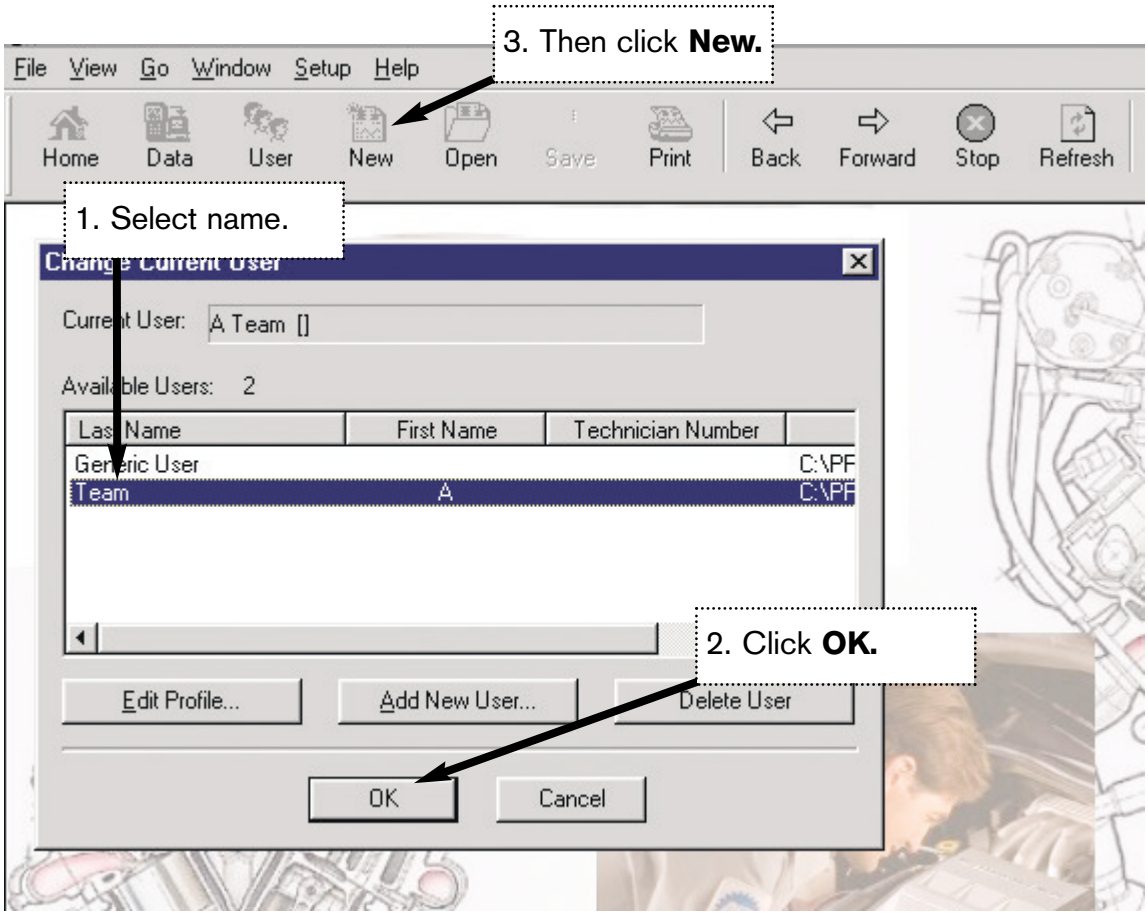


Fig. F-3
TL874IF03

3. Enter File Information. This screen allows you to store vehicle diagnostic information as well as shop information.

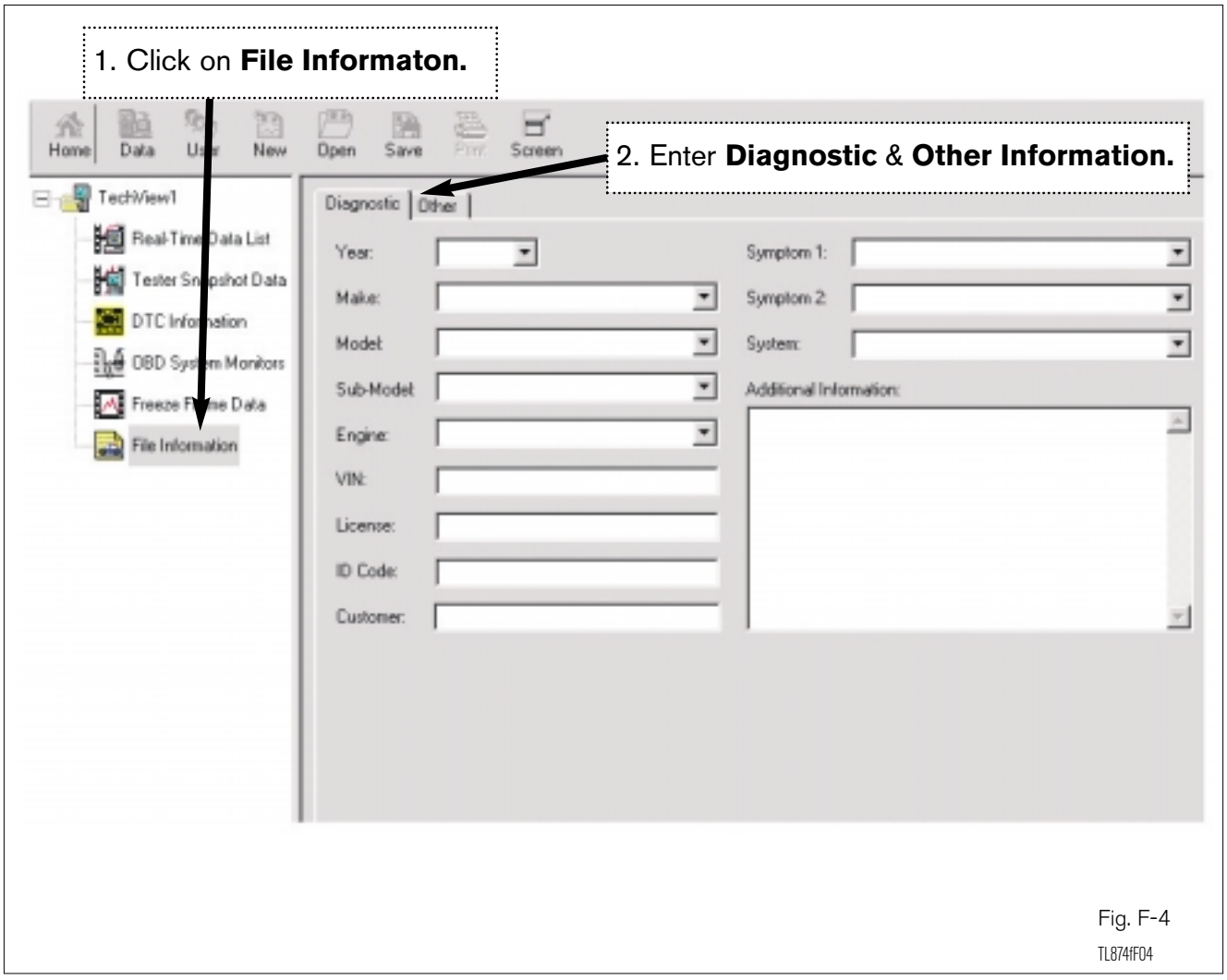


Fig. F-4
TL874fF04

4. View the Real-Time Data List. To view live tester data, follow the steps below to get into the correct mode.

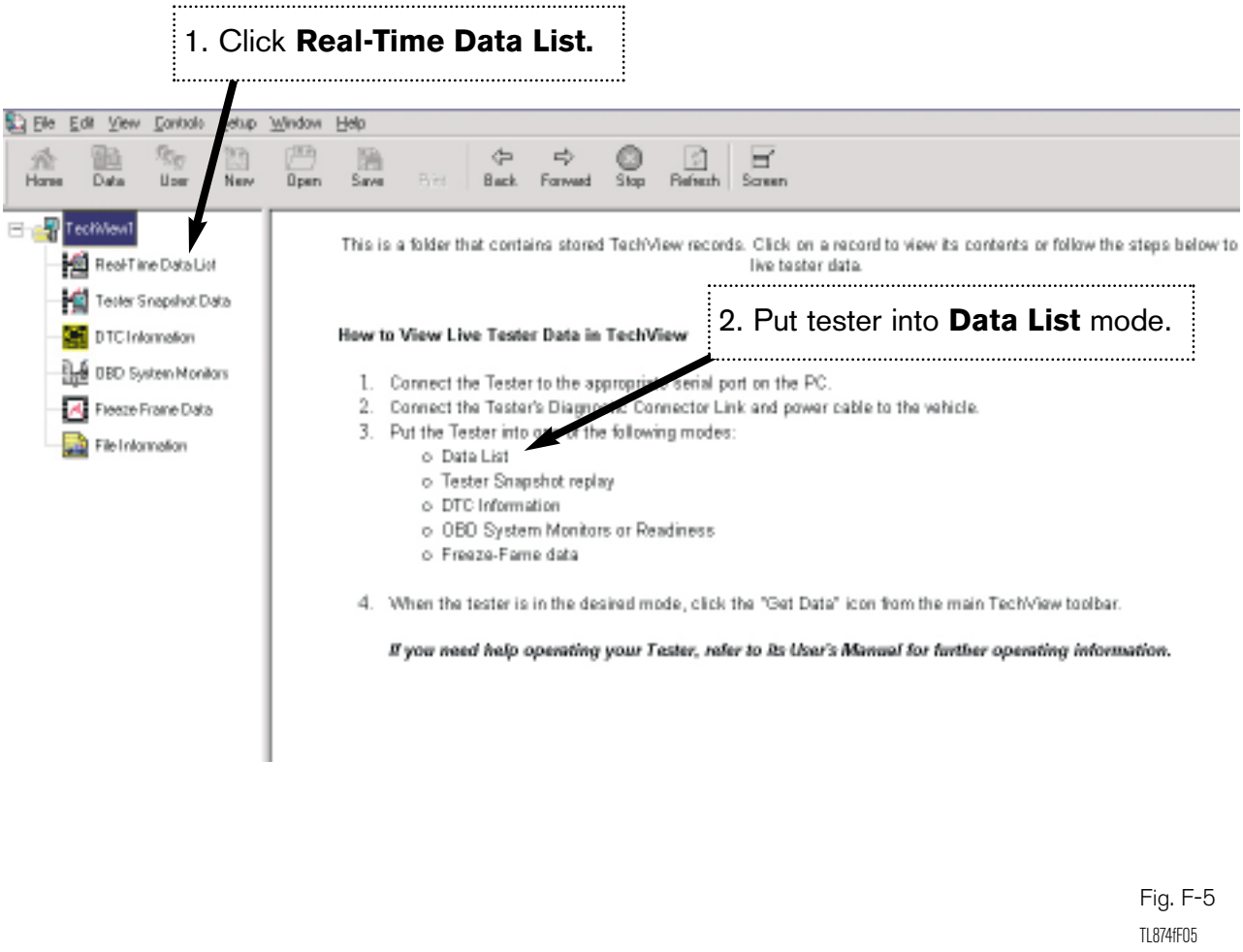


Fig. F-5
TL874IF05

**Note:** If you receive the error message listed below after clicking the Data button, check the RS232 line (the cable from the computer to the tester) and then the DLC 3 cable (from the tester to the vehicle) are in place. If you are still receiving an error message, reboot the computer.

***Error - No response from the Diagnostic Tester. Ensure the Diagnostic Tester is properly connected. (Code: 325)***

***If the error message still occurs, refer to TSB SS0004-00 for Diagnostic Tester warranty repair.***

4a. View Live Data.

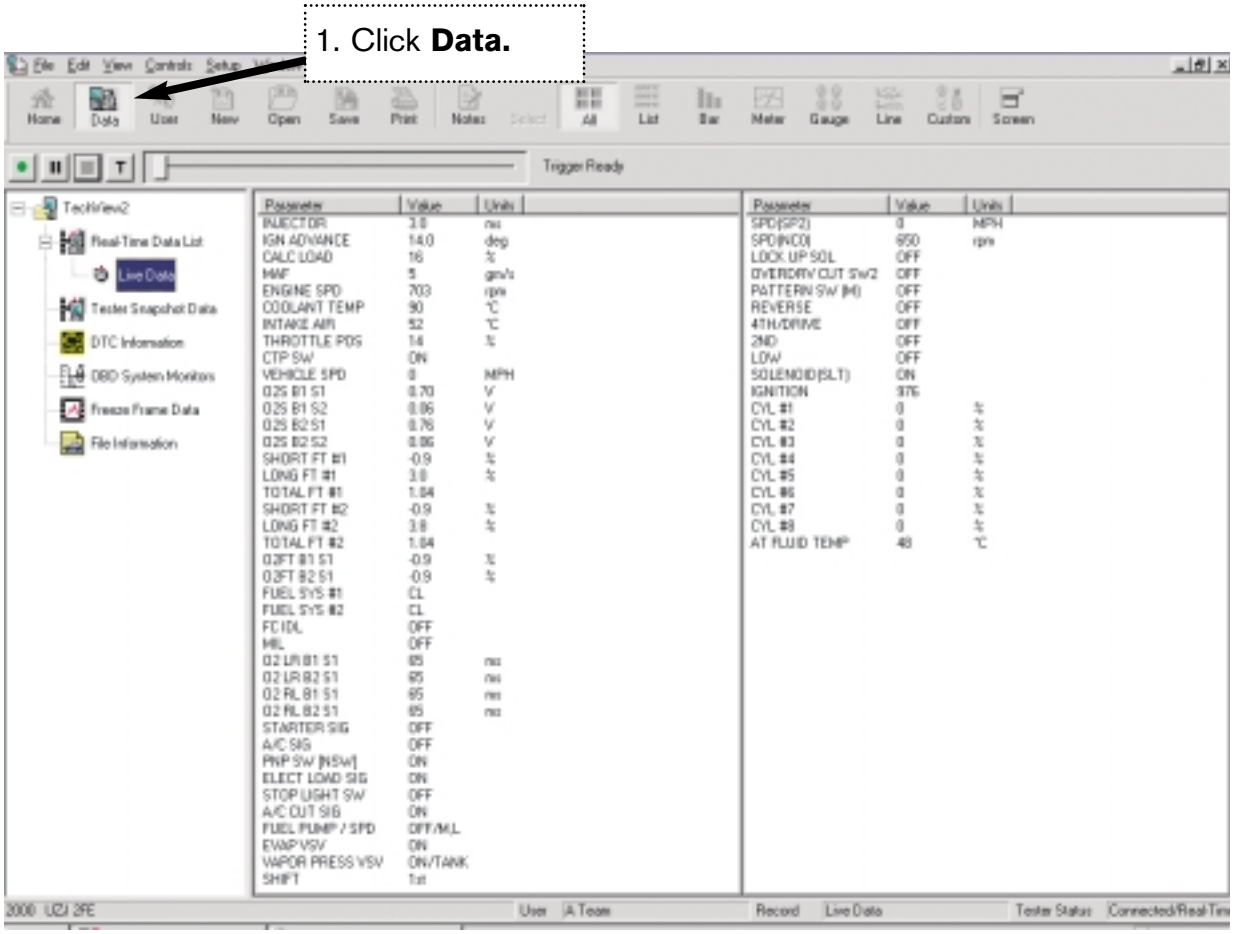


Fig. F-6
TL874fF06

5. View a specific data list.

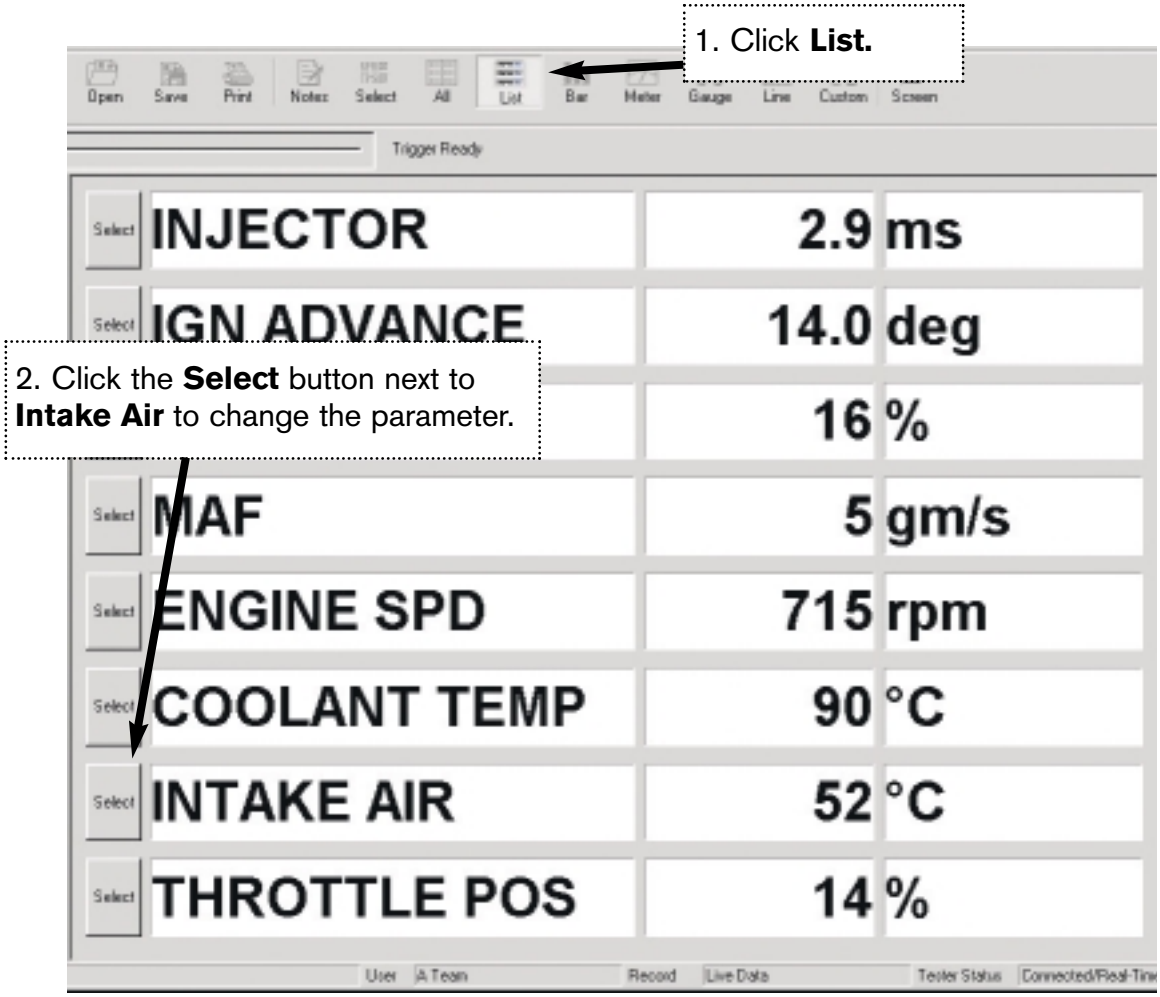


Fig. F-7
TL874IF07

6. Change the parameters. This function allows you to view and compare specific data.

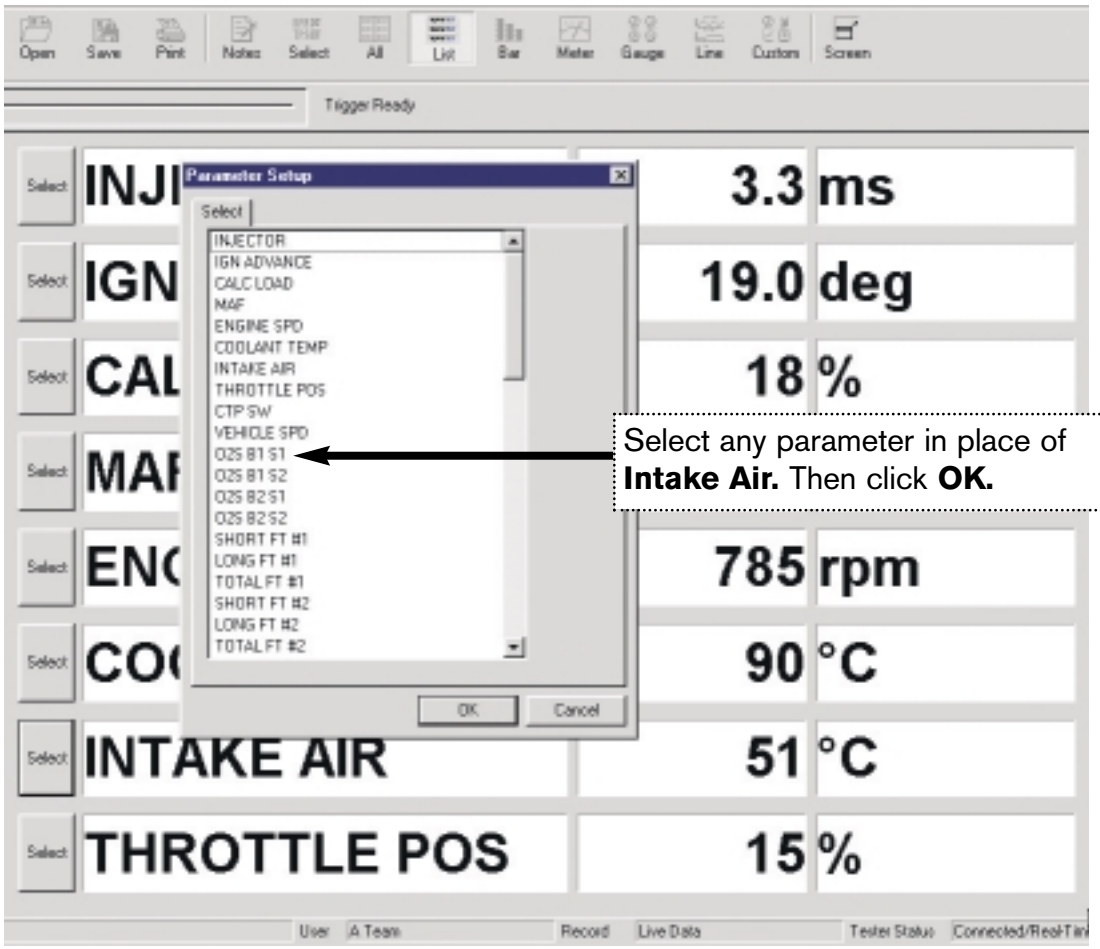


Fig. F-8
TL874IF08

7. Remove and add parameters. In this screen, up to eight parameters can be selected at one time.

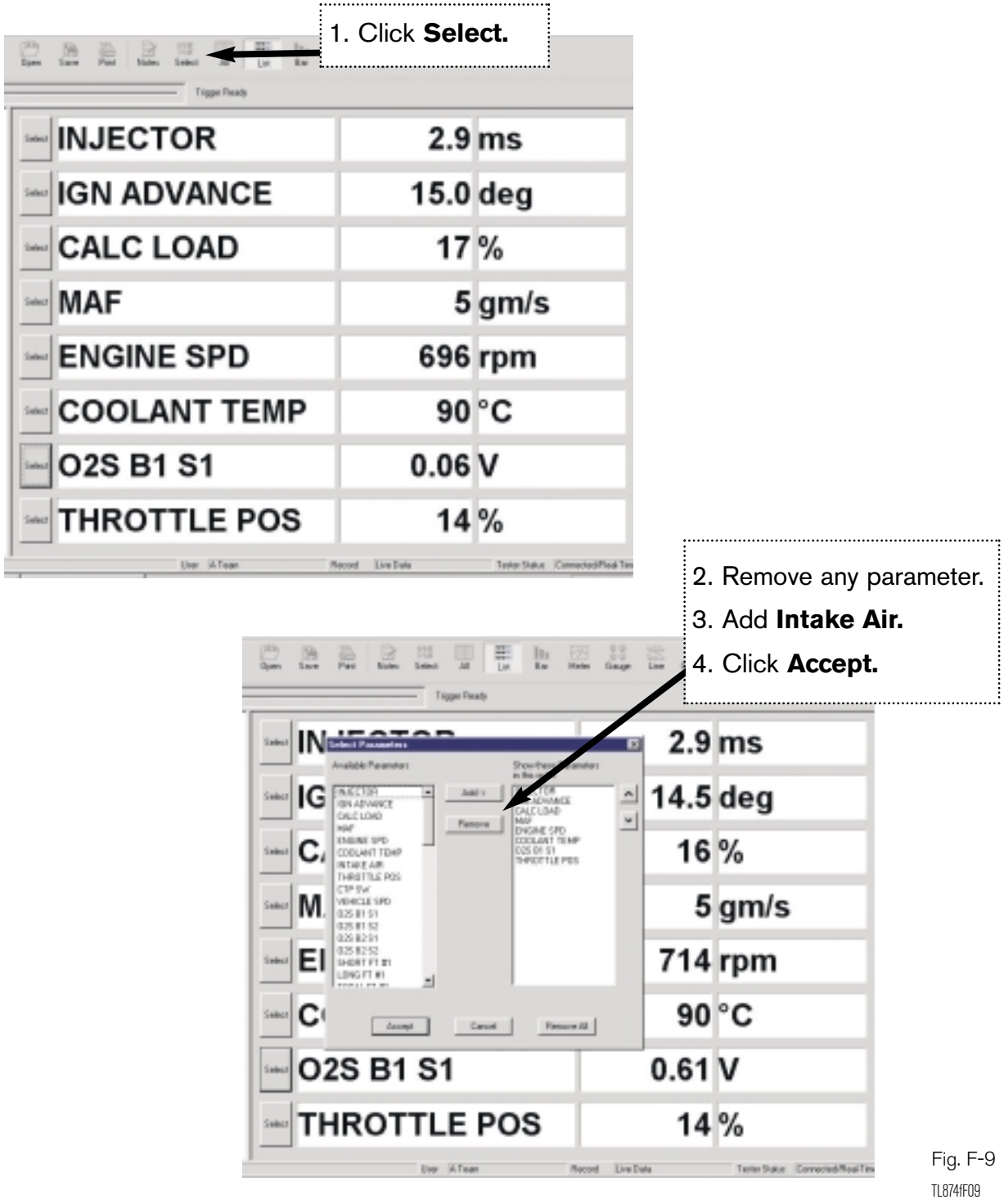


Fig. F-9
TL874IF09

**Note:** Selecting fewer parameters with the Diagnostic Tester will NOT allow the program to run faster. The refresh rate is only as fast as the ECM.

## SECTION 2: Graph Data

8. Graph Data. The next few screens will show you several ways to graph vehicle data.

**Note:** Notice that the red represents the maximum and the green represents the minimum in all graphs.

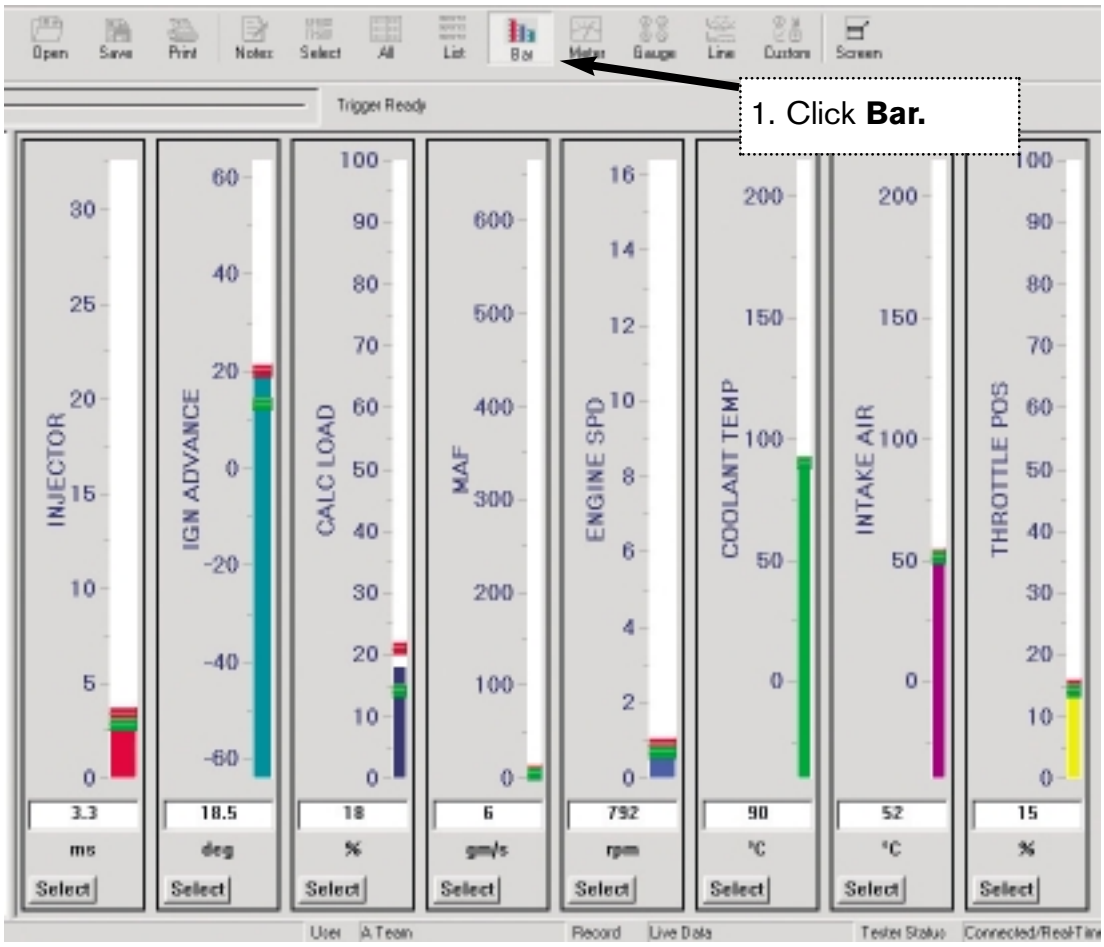


Fig. F-10
TL874fF10

8a. View the Meter and Gauge graphing options.

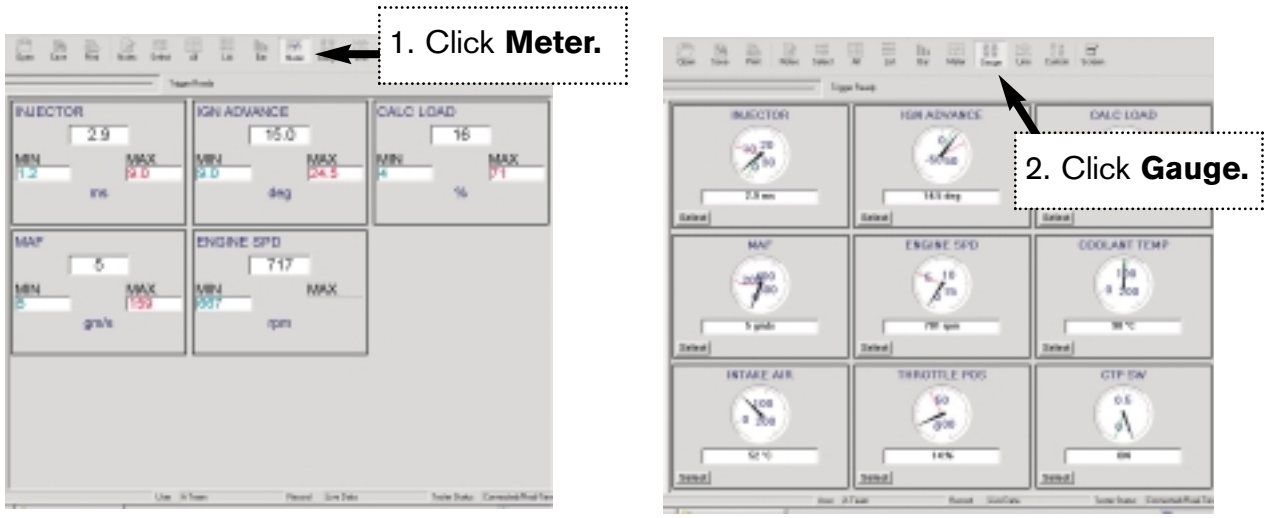


Fig. F-11

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8b. You can view several line graphs at one time. By clicking on the graph button you can view the graphs one at a time.

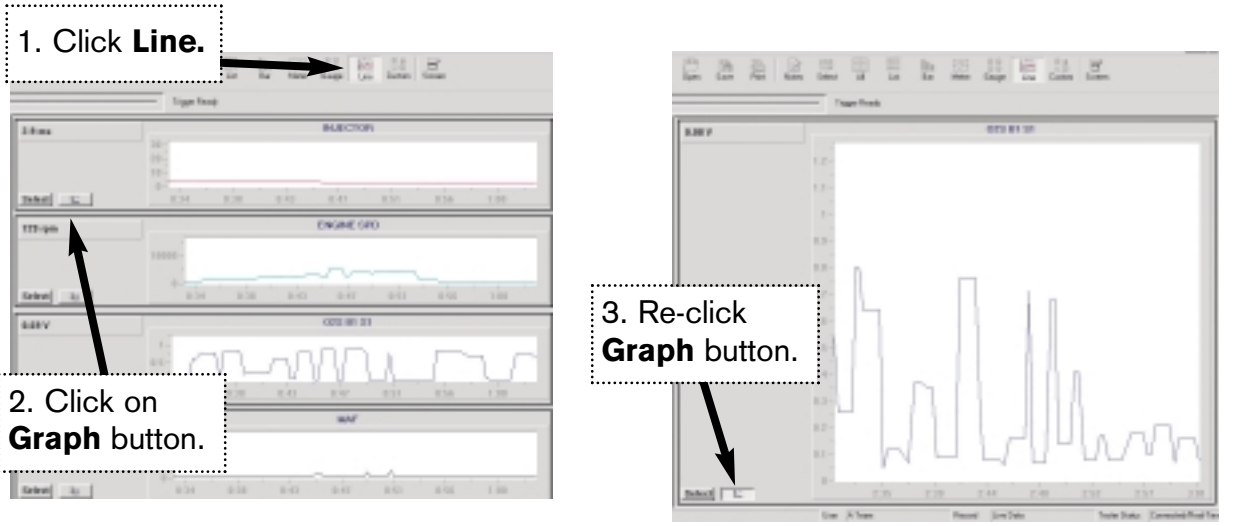


Fig. F-12

TL874fF12

8c. Another option is to watch several line graphs at one time in two different views.

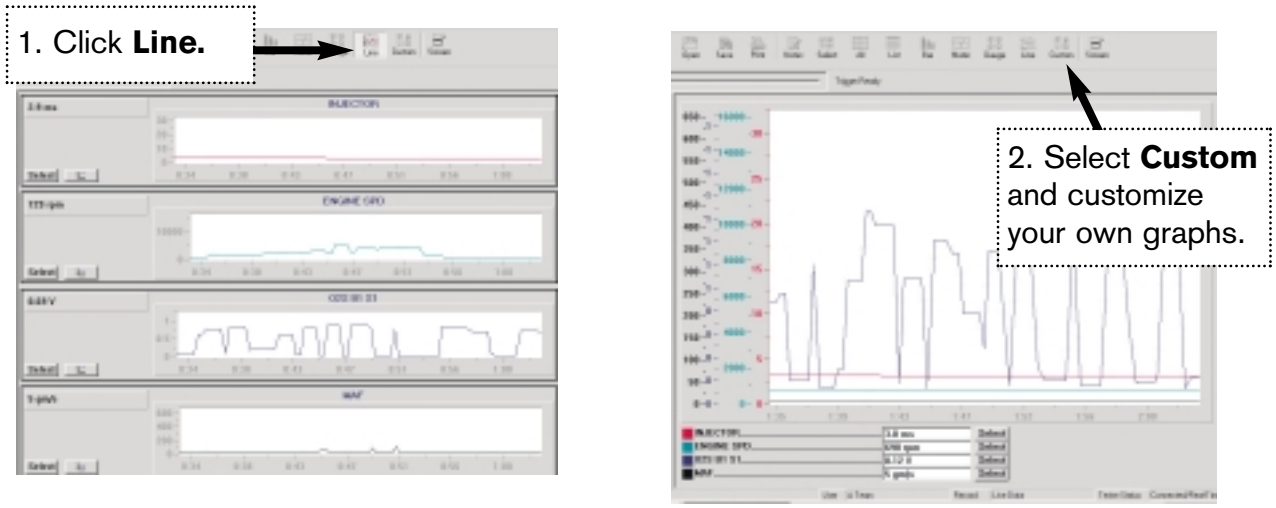


Fig. F-13
TL874fF13

8d. Customize Graph. This option will allow you to graph the data using any or all types of graphs.


Fig. F-14
TL874fF14

## SECTION 3: Record and Retrieve Real-Time Data

9. Record and Retrieve Real-Time Data. Notice the four buttons on the left side of the screen, starting with the green button. This is the Play button, followed by the Pause, the Stop, and then the Trigger button.

**Practice Exercise**

**After clicking on ALL in step 1,** set the recording time for 15 seconds. Follow the diagrams below to use the Trigger button to record the data. Increase the rpms to 3000, 3 times in order to see the data change. Recording time can be set up to 10 minutes.

**Note:** A TechView Record can contain multiple Live Data Lists, Snapshot Data, DTC Information, OBD System Monitors, and Freeze Frame Data.

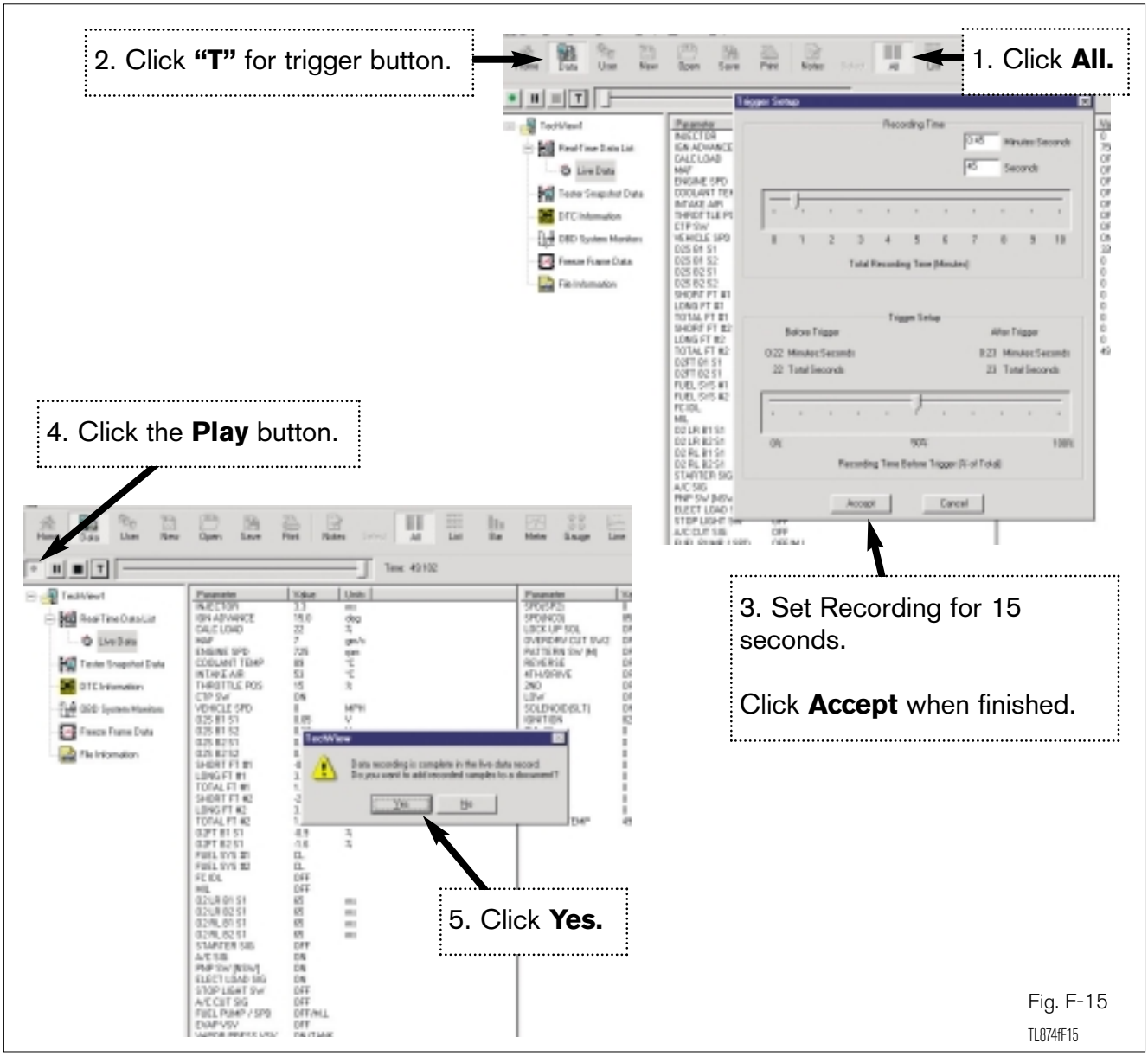


Fig. F-15
TL874IF15

10. Add Real-Time Data Record. The "Add Record" box will appear whenever you want to view data in TechView. Save the Record and name it according to the vehicle and the condition. This naming process is going to be left to your own discretion. Relate the Record name to the purpose of the created data.

**Example: Misfire Data**

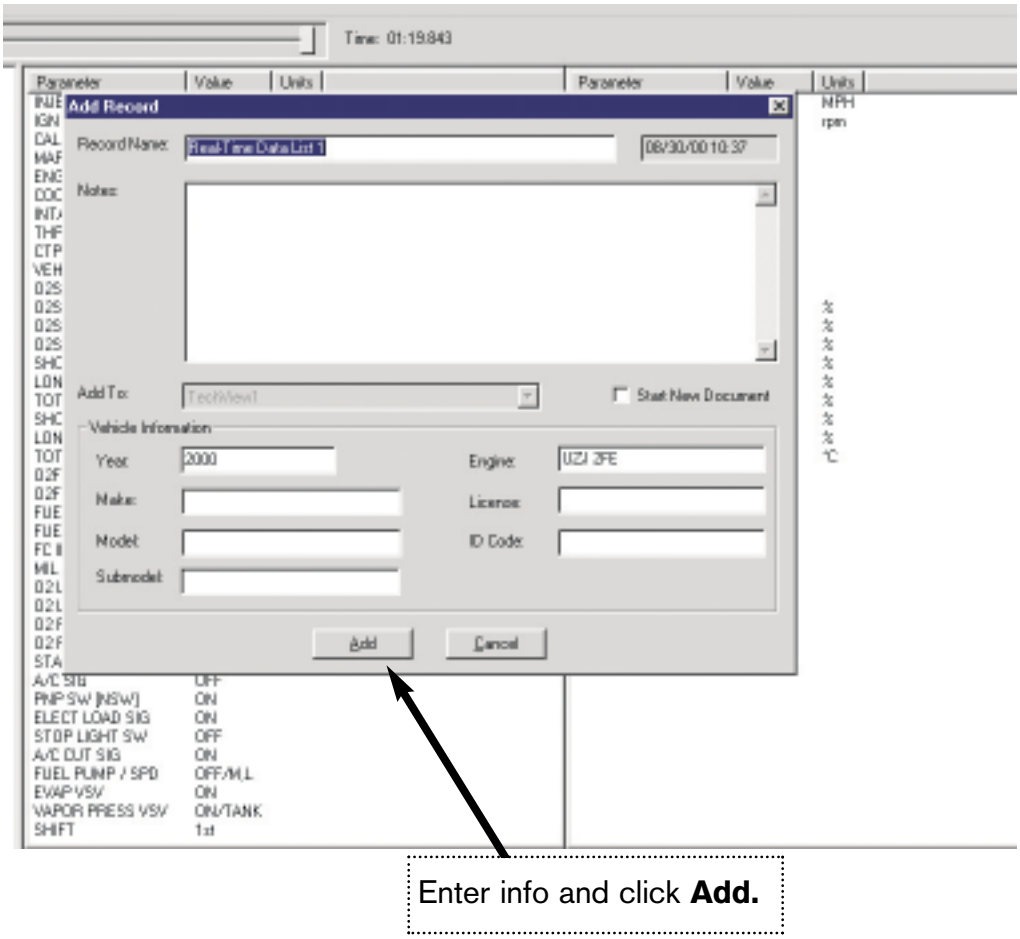


Fig. F-16
TL874fF16

## SECTION 4: Take Snapshot Data

11. TechView allows you to take Snapshot Data with the Diagnostic Tool and retrieve it in TechView. There will be times when you will want to record and retrieve a data stream. The following exercise will help you understand this process.

**Practice Exercise**

With the vehicle running, take Snapshot Data of the Throttle Position, O2 sensor, Engine Speed, and MAF using the Diagnostic Tester. Then view the snapshots using TechView by following the diagram below.

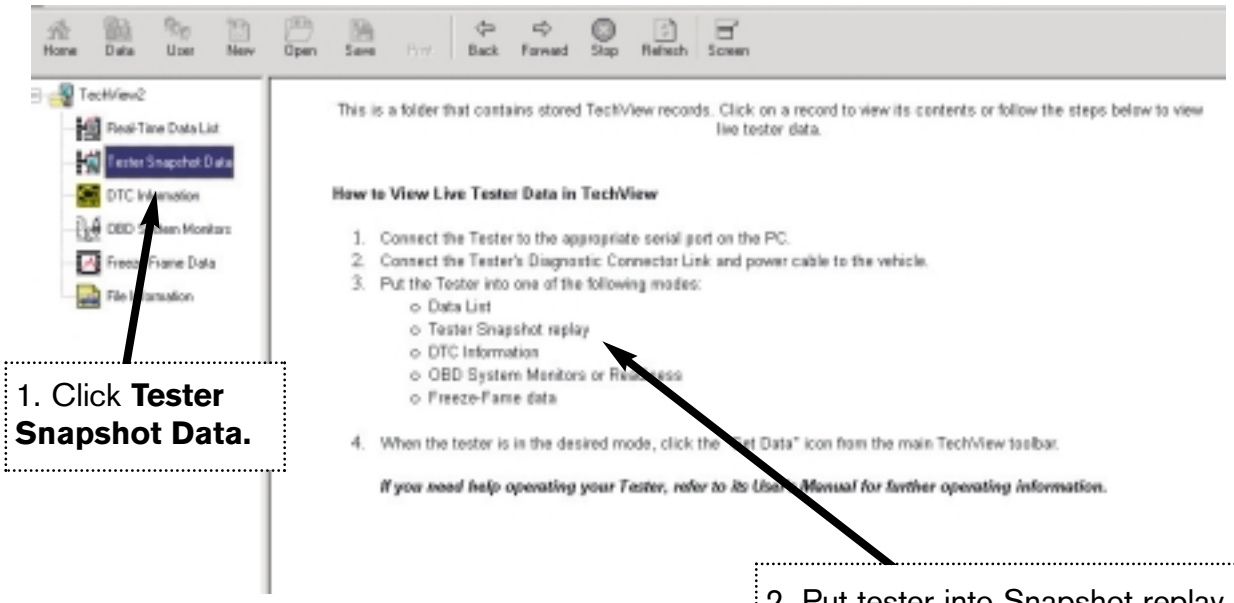


Fig. F-17
TL874fF17

11a. Add Snapshot Record Notes and Vehicle Information.

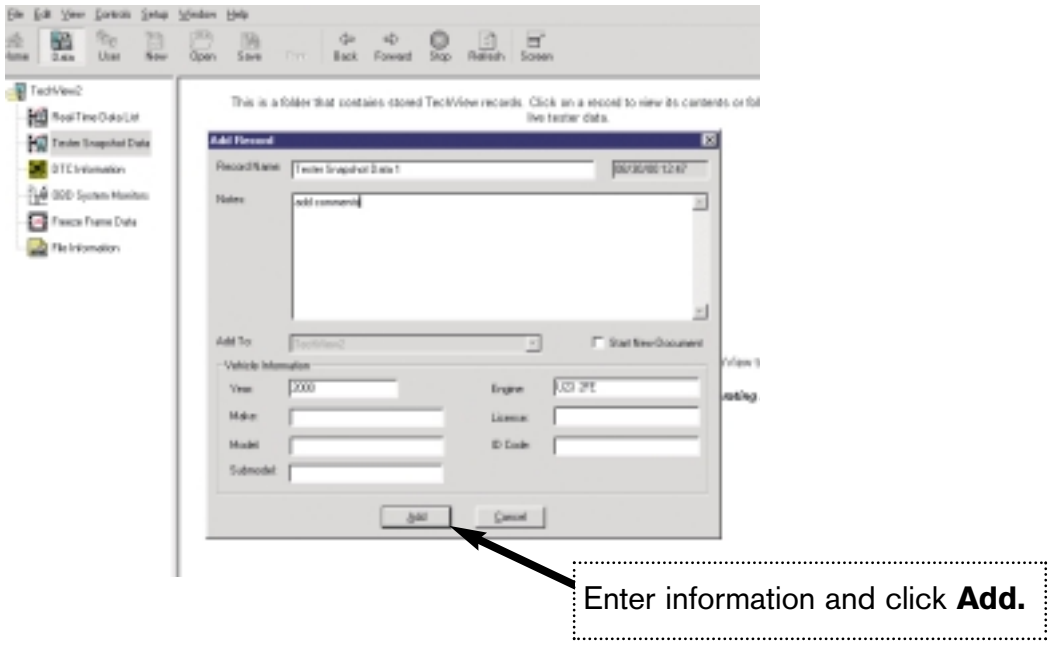


Fig. F-18
TL874fF18

11b. Now you are able to graph and play the snapshot data from the Diagnostic Tester. Simply click on any of the graph features.

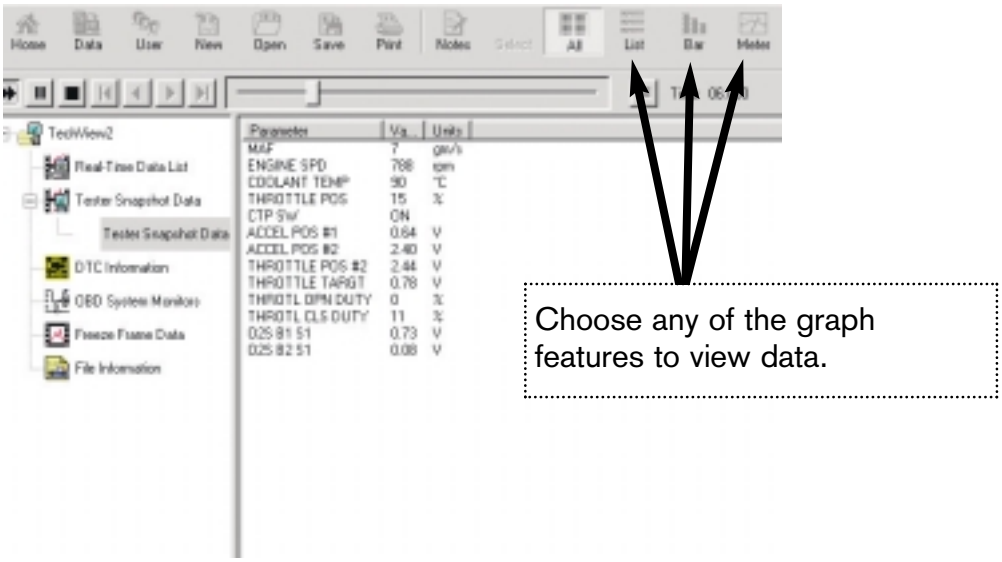


Fig. F-19
TL874fF19

## SECTION 5: DTC Information

12. View DTC Information. After storing the vehicle's DTCs on the tester, follow the diagram below.

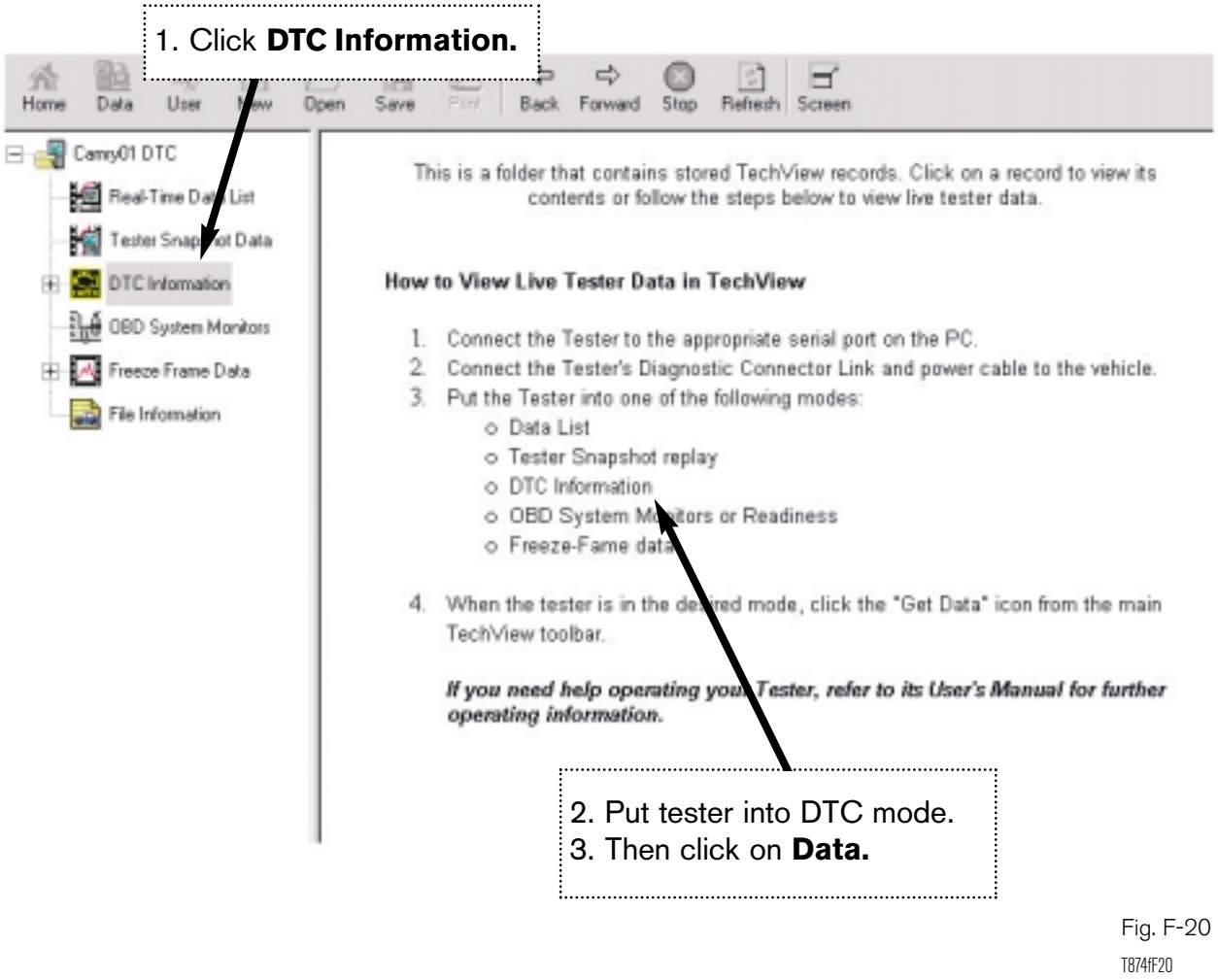


Fig. F-20
T874fF20

12a. Add DTCs to file. Click on the Add button at the top of the screen to save a DTC Record to your file.

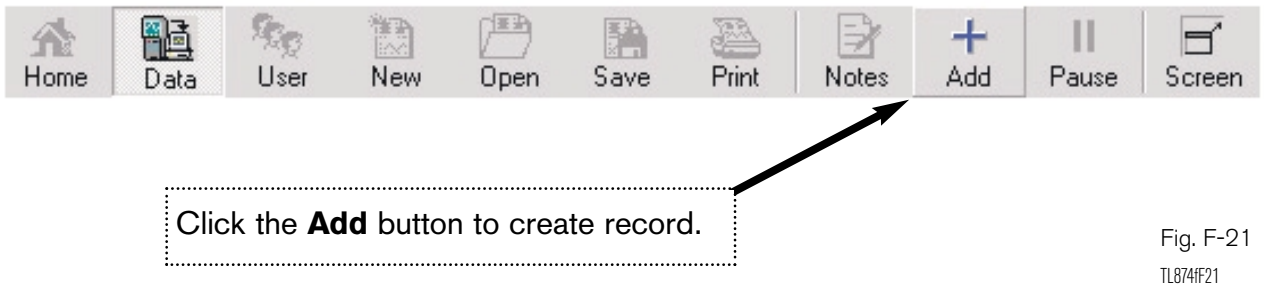


Fig. F-21
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12b. Add DTC Record

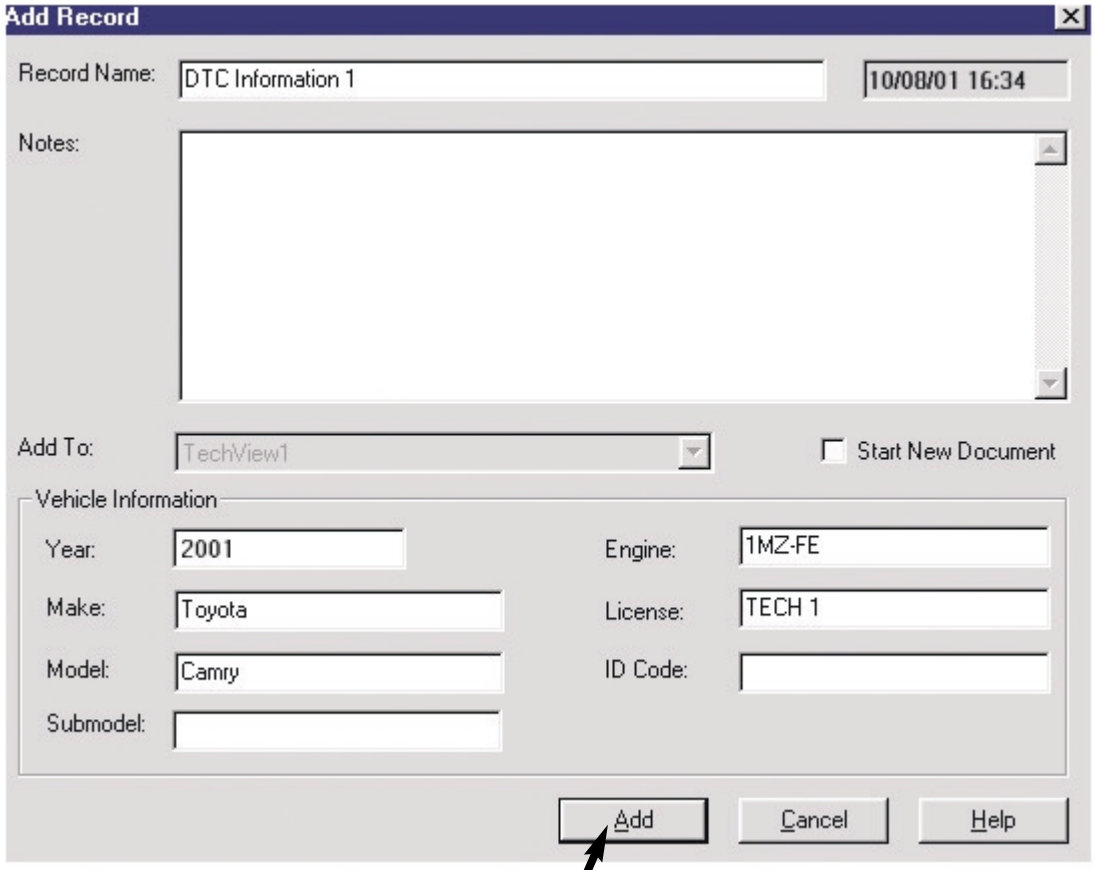


Fig. F-22
T874fF22

**Note:** To retrieve OBD System Monitors and Freeze Frame Data, follow the same procedure as above. Always put the Diagnostic Tester into the desired mode, then put TechView in that same mode to retrieve data.

12c. DTCs are stored.

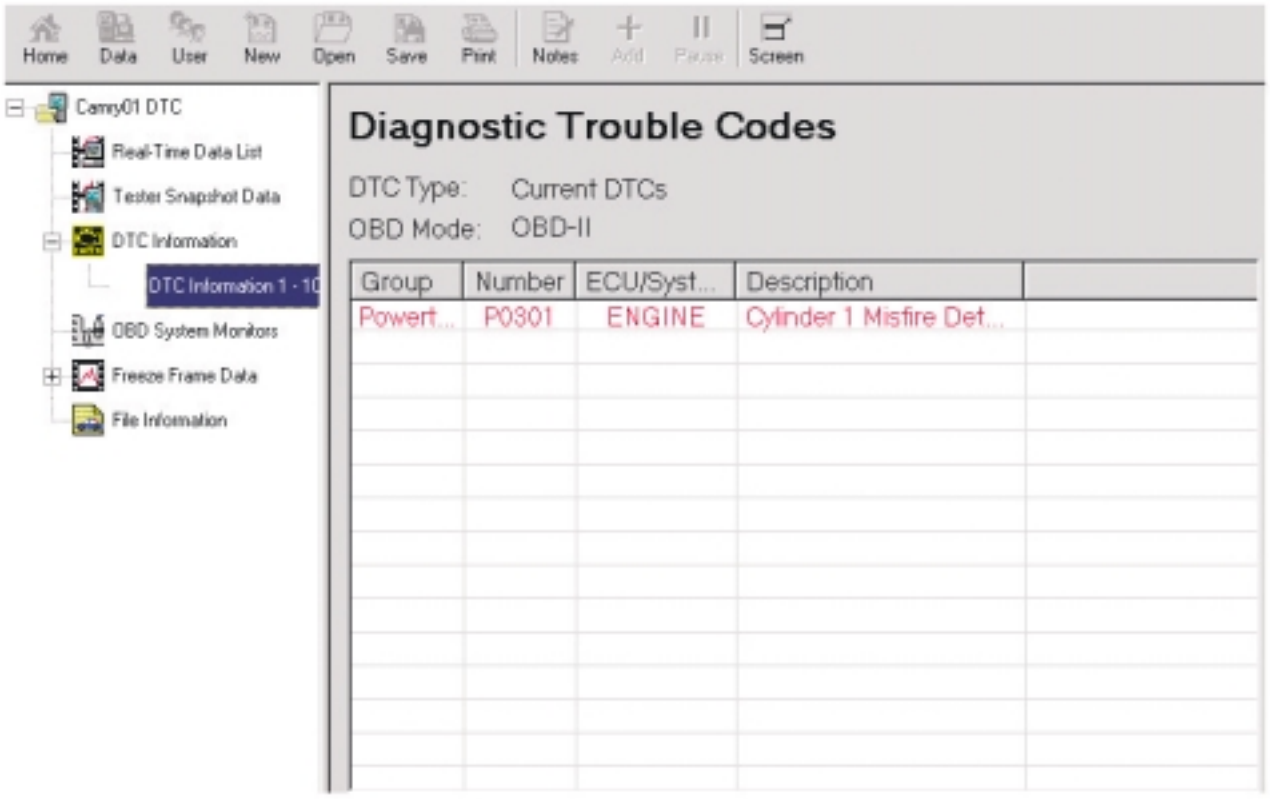


Fig. F-23

T874fF23

## SECTION 6: Save File

13. Save information. Save all the information have gathered by clicking the Save button at the top of the screen. Name the file by following the example below:

**Example: Camry 01**

Always start with the vehicle name (Camry), then the year (01). It is extremely important to always follow this naming system. It will make it much easier to find and sort files in the future because they will automatically be sorted into alphabetical order.

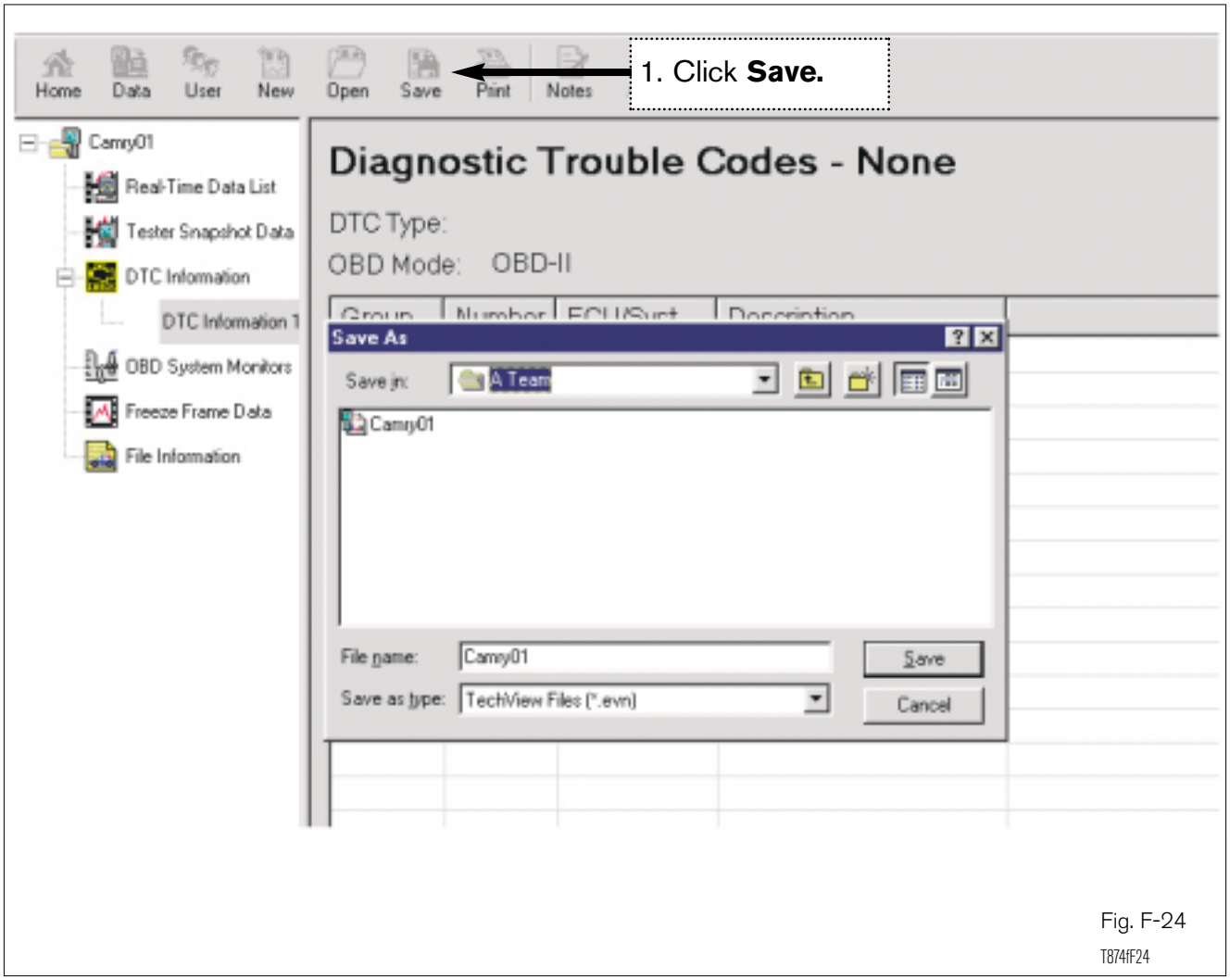


Fig. F-24
T874tF24

13a. Close the window and re-open the file to see that you have saved it.

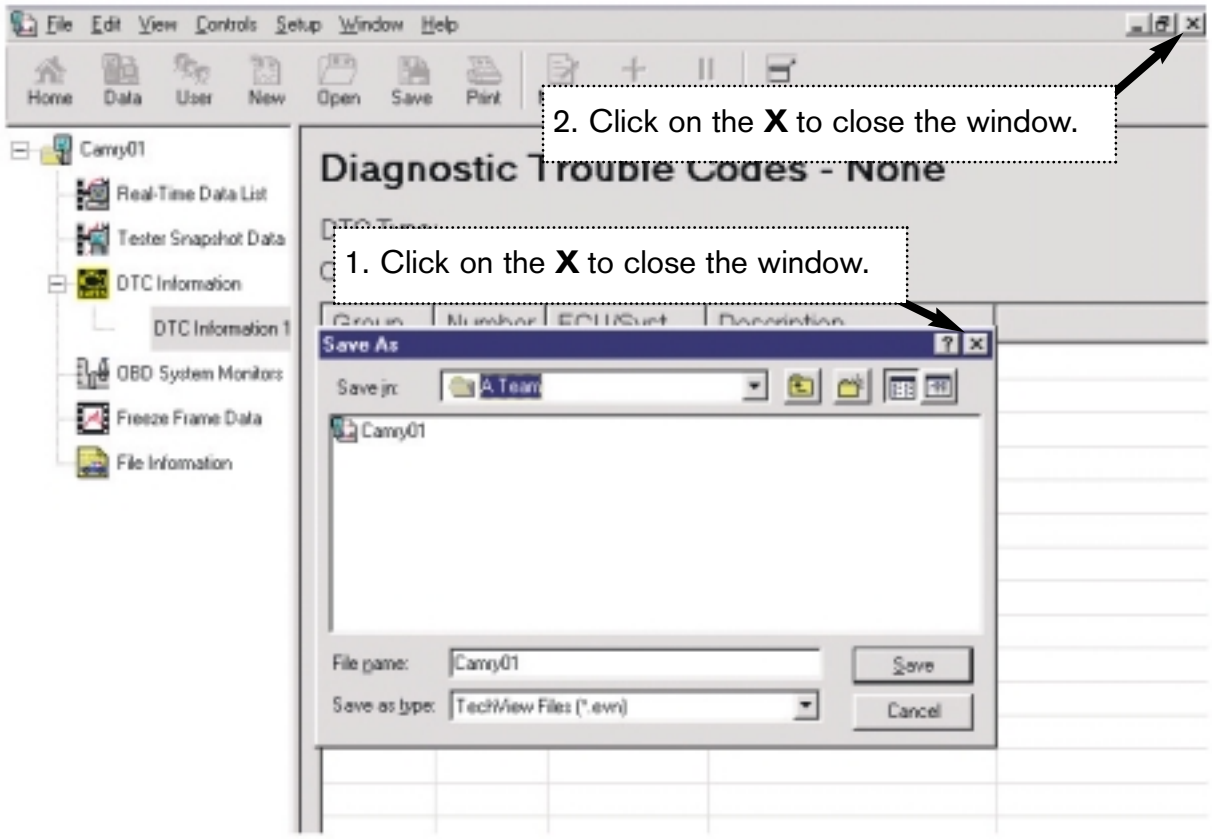


Fig. F-25
T874IF25

13b. Re-open the file by clicking Open and then double clicking on the file name.

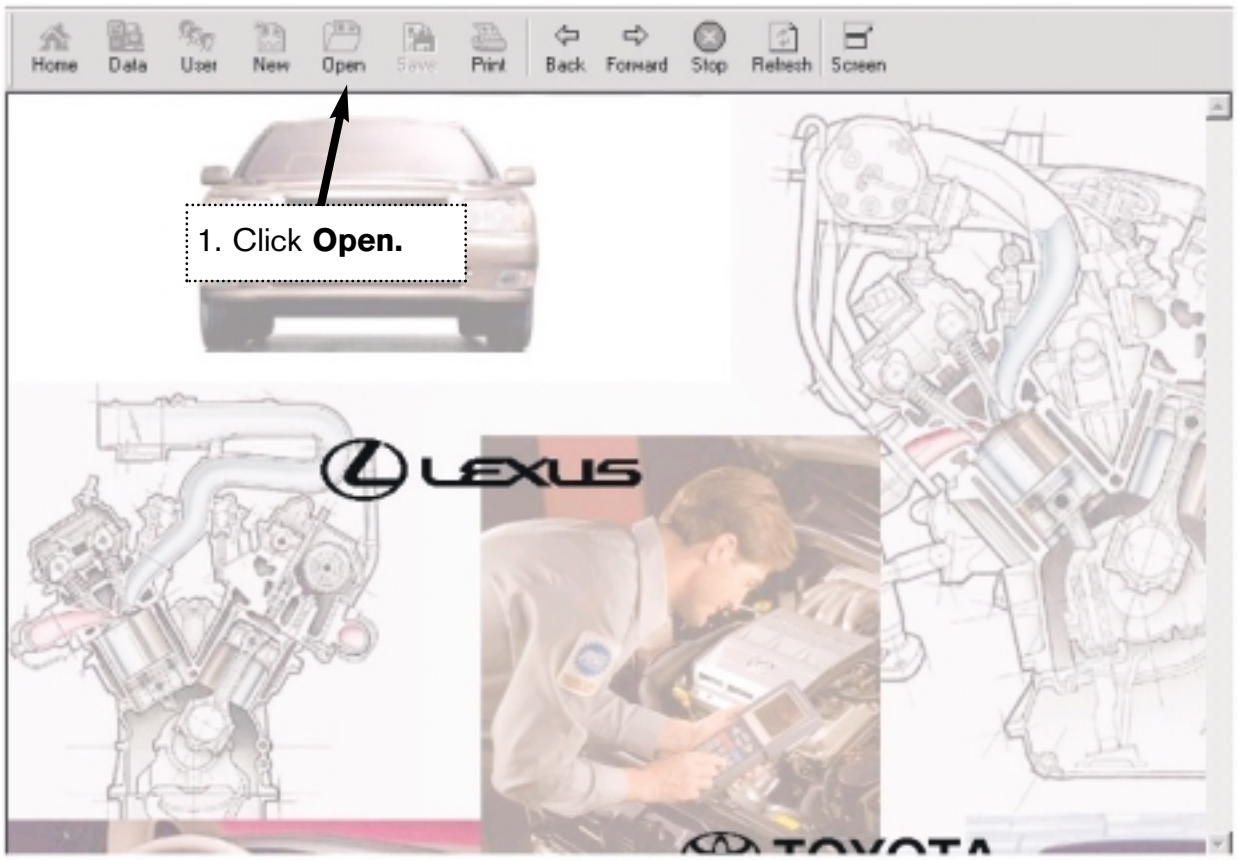


Fig. F-26
TL874fF26

14. Print File. After opening your file, simply click on the Print button to print the file.

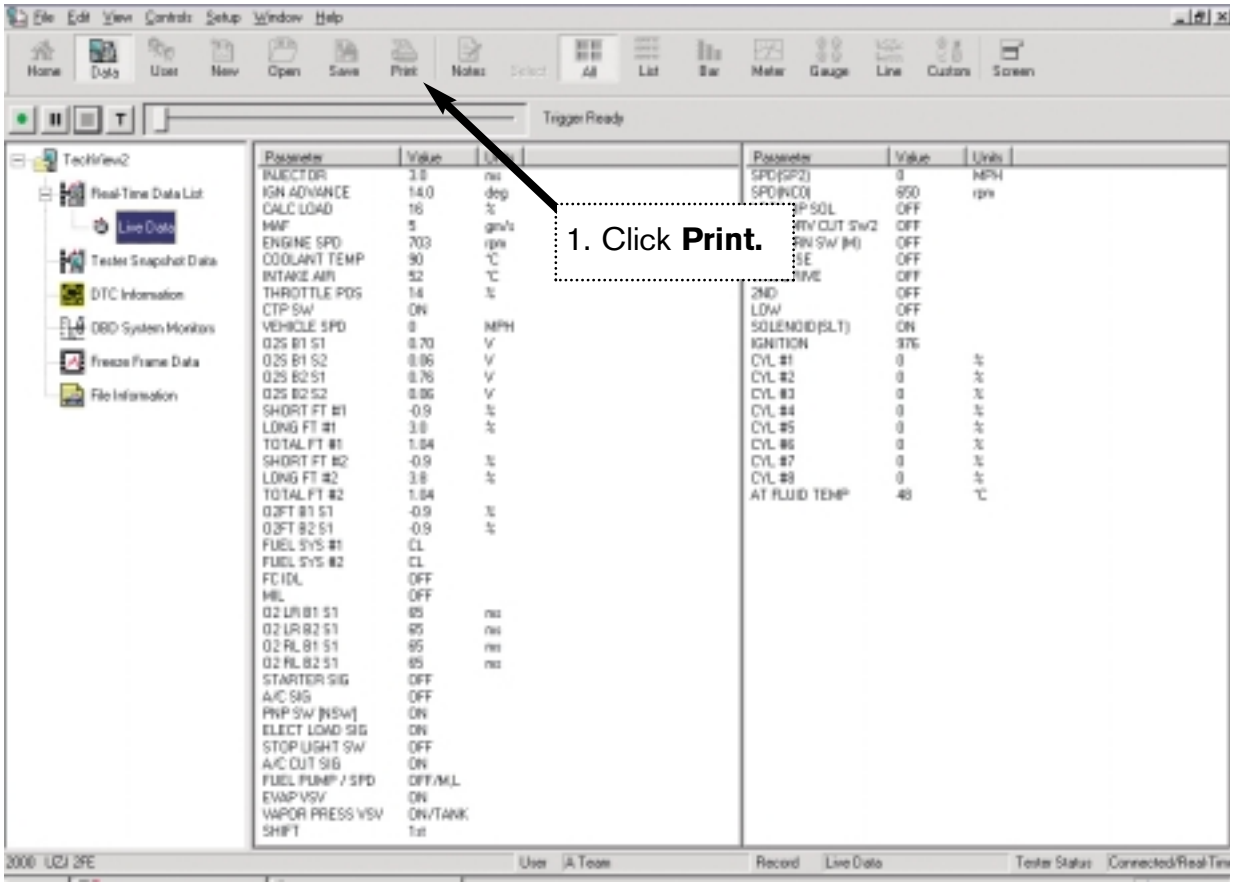


Fig. F-27

TL874IF27