



EEHD974001

*PRO-LINK<sup>®</sup> Ultra  
Hardware and Software  
User's Manual*

*Powered by NEXIQ Technologies<sup>™</sup>*

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PRO-LINK<sup>®</sup> Ultra Hardware and Software User's Manual

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# Chapter 1

## Using this Manual



- ▼ *Manual Overview, page 2*
- ▼ *Conventions, page 3*

This chapter provides an overview of this manual's organization and the conventions used throughout.

**NOTE:**



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Screen shots used throughout this manual are for illustrative purposes only. All data shown is fictitious in nature.

---

## Manual Overview

This manual provides basic and detailed information to support you in using the PRO-LINK® Ultra.

This manual is composed of the following sections:

- *Table of Contents*—helps you to find the information you are looking for quickly and easily.
- *Chapter 1: Using this Manual*—provides an overview of this user's manual.
- *Chapter 2: Hardware and User Interface Overview*—provides an overview of the PRO-LINK® Ultra hardware, including detailed product specifications. It also includes an overview of the PRO-LINK® Ultra user interface and navigational features.
- *Chapter 3: Getting Started*—explains the process of connecting the PRO-LINK® Ultra to a vehicle and scanning the vehicle for faults. It also includes an introduction to tab functions, as well as information on monitoring battery power.
- *Chapter 4: Using the PRO-LINK® Ultra* —provides detailed instructions on using the Diagnostics Menu when the PRO-LINK® Ultra is connected to a vehicle, including its various tabs and features.
- *Chapter 5: Using the Admin Menu*—provides detailed instructions for using the features of the PRO-LINK® Ultra Admin Menu. The procedures in this chapter assume that PRO-LINK® Ultra is not connected to a vehicle and that a system administrator is performing the procedures in a non-shop setting.
- *Chapter 6: Using PRO-LINK® Repair-Connect* —provides detailed instructions for using the features of PRO-LINK® Repair-Connect. A subscription to Repair-Connect is required.
- *Chapter 7: Utilites*—provides information on using PRO-LINK® Ultra utility features Record Mode and Playback Mode.

Each chapter begins with an “at-a-glance” list of the chapter contents, along with corresponding page numbers.



## Conventions

This section provides descriptions of the conventions used throughout this guide.

### Special Messages

#### Note

NOTE provides an explanation, comment, or tip related to the subject matter that is being discussed.

*Example:*

---

**NOTE:**

Refer to the page number provided for each described component for further details.

---

#### Important

IMPORTANT indicates a situation which, if not avoided, may result in damage to the test equipment or vehicle.

*Example:*

---

**IMPORTANT:**

Keep all cables clear of moving or hot engine parts.

---

#### Caution

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in moderate or minor injury to the operator or to bystanders.

*Example:*

---

**CAUTION:**

Do not use the unit to perform tests on household or industrial sources.

---

## Warning

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury to the operator or bystanders.

*Example:*

### WARNING:



---

Use appropriate hand protection when handling hot engine components.

---

## Troubleshooting

Information intended to help you to address or anticipate potential issues are presented in the following manner:



*If the “No ECMs detected” message is displayed, check to make sure that the PRO-LINK® Ultra is connected to the vehicle and the key is in the on position.*

## Specialized Text

The following specially formatted text is used to help you to differentiate certain elements discussed within this manual:

- *Emphasis:* Used to draw your attention to particularly important information.
- **FEATURE:** Used to highlight the name of a specific feature.  
Example: “Use **COPY** to save the report to a USB memory stick.”
- **Field/Line:** Used to highlight the name of a field or a line of text from a display.  
Example: “A check mark is placed in the check box next to the **Total Fuel Used** parameter.”
- **Menu Items:** Used to highlight a series of menu selections.  
Example: “From the Start menu, select **Connect/Scan Vehicle** ▶ **Heavy Duty (Auto Scan)** ▶ **HDS J1708.**”
- **Screen titles:** Used to highlight the title of a screen displayed.  
Example: “The **Manage Reports** screen is displayed.”

# Chapter 2

## Hardware and User Interface Overview



- ▼ *Component Checklist, page 6*
- ▼ *Product Specifications, page 7*
- ▼ *Hardware Overview, page 8*
- ▼ *User Interface Overview, page 12*
  - ▼ *The Main Menu, page 12*
  - ▼ *The Diagnostics Menu, page 14*
  - ▼ *The Admin Menu, page 17*
  - ▼ *Navigational Features, page 18*
    - ▼ *Using Tabs, page 18*
    - ▼ *Using Buttons, page 20*
    - ▼ *Using Screen Icons, page 22*

This chapter provides an overview of the PRO-LINK® Ultra hardware, including detailed product specifications. It also includes an overview of the PRO-LINK® Ultra user interface and navigational features.

**NOTE:**



---

Screen shots used throughout this manual are for illustrative purposes only. All data shown is fictitious in nature.

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## Component Checklist

The following components are included with your PRO-LINK® Ultra Starter Kit. Be sure you have all the items before using the device:

- ✓ PRO-LINK® Ultra Scan Tool
- ✓ Heavy Duty Standard (HDS) J1708/J1587 Software Application
- ✓ Heavy Duty Standard (HDS) J1939 Software Application
- ✓ OBD II/EOBD Software Application
- ✓ Data Cable
- ✓ AC/DC Adapter
- ✓ 6-pin Deutsch Adapter
- ✓ 9-pin Deutsch Adapter (non-locking)
- ✓ 16-pin J1962 Adapter
- ✓ CD (includes user guides and manuals)
- ✓ Snap-on *Fault Code Guide*
- ✓ Carrying Case

## Product Specifications

The PRO-LINK<sup>®</sup> Ultra is configured with the following specifications:

Feature	Data
Physical Dimensions	10.00" x 7.25" x 2.00" (254 mm x 184.15 mm x 51 mm)
Weight	2.7 lbs (1.2247 kg)
Power Requirements	6 - 32 VDC @ 30W, 3A max
Display	8.4 inch TFT LCD sunlight-readable display with multi-touch screen technology. Ambient light sensor; in sunlight ramps up backlight.
Audio	Internal microphone Internal speaker Headphone/microphone port
Battery	11.1 V, 2.4 A-hr Li-ion
Operating Temperature	32 - 140°F (0 to +60°C)
Vehicle Protocols	J1708/J1587 J1939 Dual CAN (125, 250, or 500 kb/s) Single-wire and fault-tolerant CAN ISO-9141/KW2000 ISO-15765 J1850 VPW J1850 PWM GM 8192/9600 baud ATEC 160 baud
Communications	WiFi 802.11 b/g/n Bluetooth <sup>®</sup> wireless 2.1 + EDR Ethernet 10K and 100K HDMI port (display output) USB Host port (Type A) USB Client port (Type B)
SDIO Card Slot	Type 1 cards only
Vehicle Connector	DB26M (use with NEXIQ <sup>™</sup> power/data cable)
AC/DC power adapter	AC input 100 - 240V, 0.9A, 50 - 60 HZ DC output 15V 2.0A

## Hardware Overview

This section introduces the PRO-LINK® Ultra hardware, its ports, and connections.

### Front View



Figure 2.1 Front View of the PRO-LINK® Ultra

## Top View

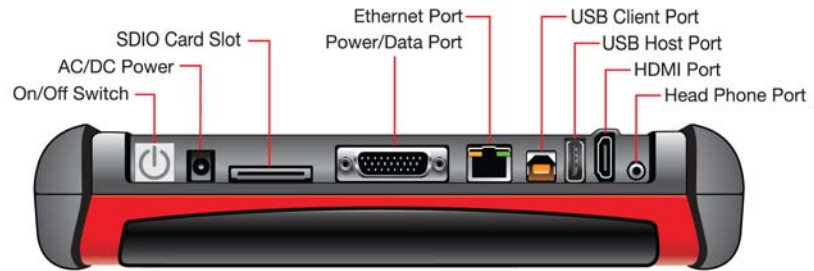


Figure 2.2 Top View of the PRO-LINK® Ultra

## Back View

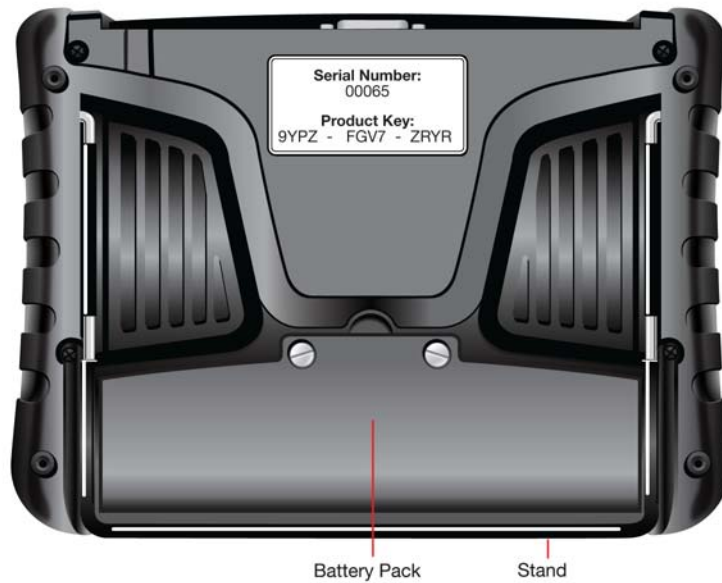


Figure 2.3 Back View of the PRO-LINK® Ultra

**WARNING:**



---

The stand on the back of the PRO-LINK® Ultra makes it possible to hang the device from the steering wheel. We recommend *strongly* that you refrain from doing this while the vehicle is in motion.

---



## Back View Showing Battery Pack



Figure 2.4 PRO-LINK® Ultra Battery Pack

To remove the battery pack, you must first remove the two screws that hold the battery pack in place.

## User Interface Overview

This section provides an overview of the following menus and features:

- The Main Menu (pg. 12)
- The Diagnostics Menu (pg. 14)
- The Admin Menu (pg. 17)
- Navigational features (pg. 18)

### The Main Menu

When you launch the PRO-LINK® Ultra, the first thing you see, after the splash screen, is the Main Menu.

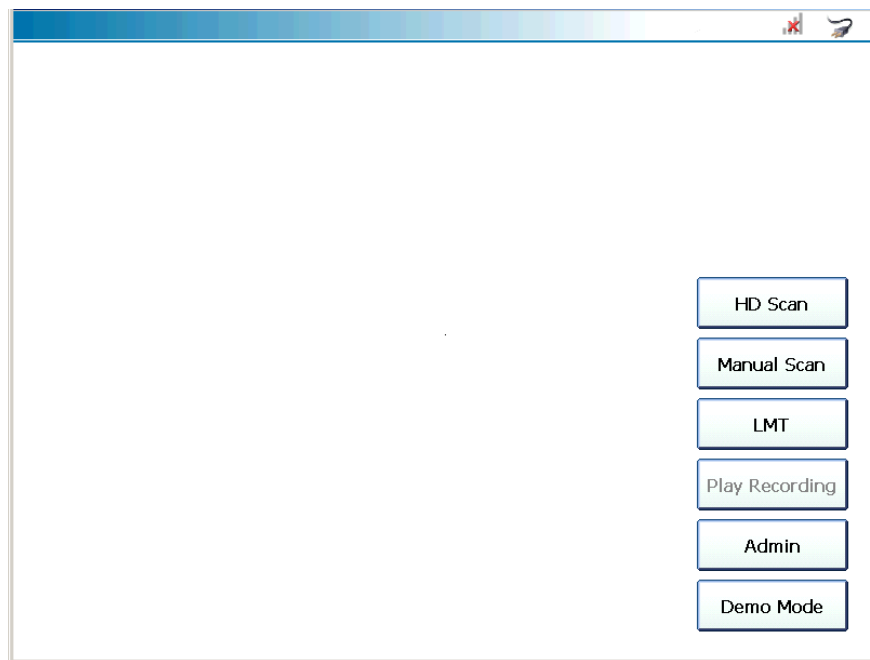


Figure 2.5 Main Menu

**NOTE:**



If you are connected to a vehicle, the only way to access the Main Menu is to select **End Session** from the drop-down menu on the Diagnostics Menu.

The following table introduces the items on the Main Menu:

Menu Item	What It Does
<b>HD Scan</b>	<p>Heavy Duty Scan (Auto):</p> <ul style="list-style-type: none"> <li>• Scans the vehicle.</li> <li>• Presents a list of ECMs detected during scanning (J1708 and J1939).</li> <li>• Enables you to select up to 6 modules from the list.</li> </ul>
<b>Manual Scan</b>	<p>Heavy Duty Scan (Manual):</p> <ul style="list-style-type: none"> <li>• Scans the vehicle.</li> <li>• Presents a list of applications; you can only select one application to load.</li> <li>• Presents a list of available modules for the application you selected in the first list.</li> </ul>
<b>LMT</b>	<p>Light and Medium Truck Scan:</p> <ul style="list-style-type: none"> <li>• Starts the vehicle scanning process using the Light Medium Truck application.</li> </ul> <p>For detailed information on using the LMT application, refer to the <i>Light and Medium Truck (LMT) Application User's Guide</i>. "Beginning the Scanning Process" and "Selecting an Application" in Chapter 2 of the same guide may also be useful.</p>
<b>Play Recording</b>	<p>Plays back the most recently made recording. Record and Playback modes are described in Chapter 7 of this manual.</p>
<b>Admin</b>	<p>Displays the Admin Menu.</p>
<b>Demo Mode</b>	<p>Places the PRO-LINK® Ultra in Demo Mode.</p>

## The Diagnostics Menu

When the scanning process is complete, the Diagnostics Menu is displayed:

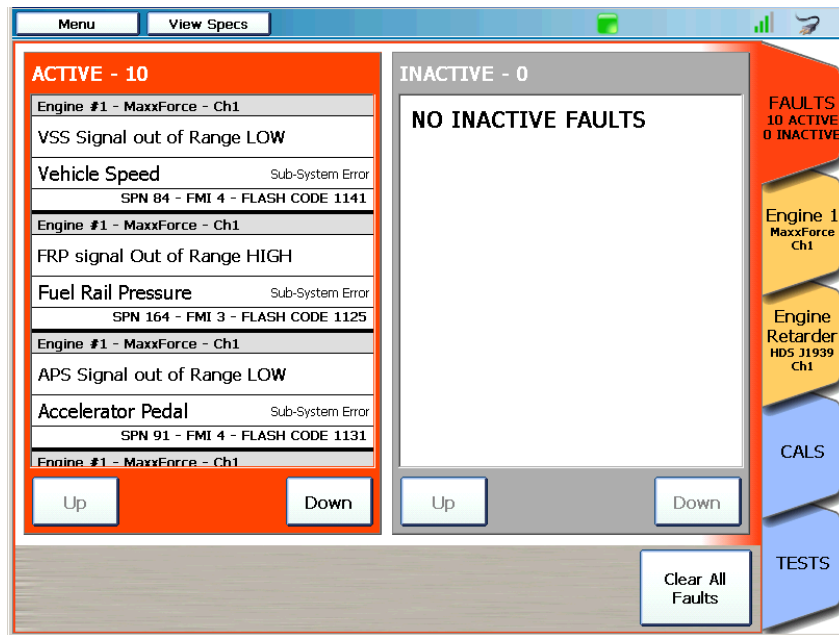


Figure 2.6 Diagnostics Menu

The Diagnostics Menu is composed of a number of tabs along the right side of the screen. You use these tabs to access different types of diagnostic information and features. The following tabs are available:

- FAULTS tab
- PARAMETERS tab
- CALS tab
- EVENTS tab (available only with the CAT® ACERT™ and Caterpillar® Electronic Engines applications)
- TESTS tab

If you have loaded more than one module, there will be multiple PARAMETERS tabs (e.g., Engine 1 and Engine Retarder as shown in Figure 2.6).

**NOTE:**



For detailed information on the Diagnostics Menu, refer to *Chapter 4: Using the Diagnostics Menu*, later in this manual.

There are two drop-down menus located in the upper-left corner of the Diagnostics menu.

- Menu (pg. 15)
- View Specs (pg. 16)

## Menu

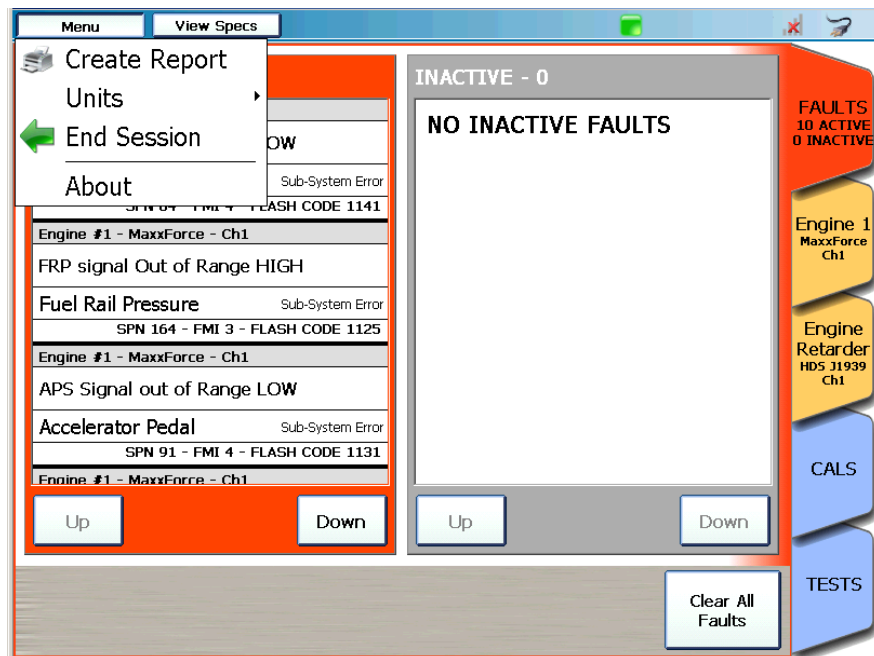


Figure 2.7 Drop-Down Menu

From the drop-down menu you can access the following options:

- **Create Report**—Displays the **Print Selection** menu. Once you make your selections, you can print your customized report.
- **Units**—Enables you to select how you want to display units of measure (English vs. Metric).
- **End Session**—Ends the session, disconnects from the vehicle, and returns you to the **Main Menu** (Figure 2.5).
- **About**—Displays the **About PRO-LINK® Ultra** information box.

## View Specs

The View Specs menu displays the **Vehicle Specifications** page.

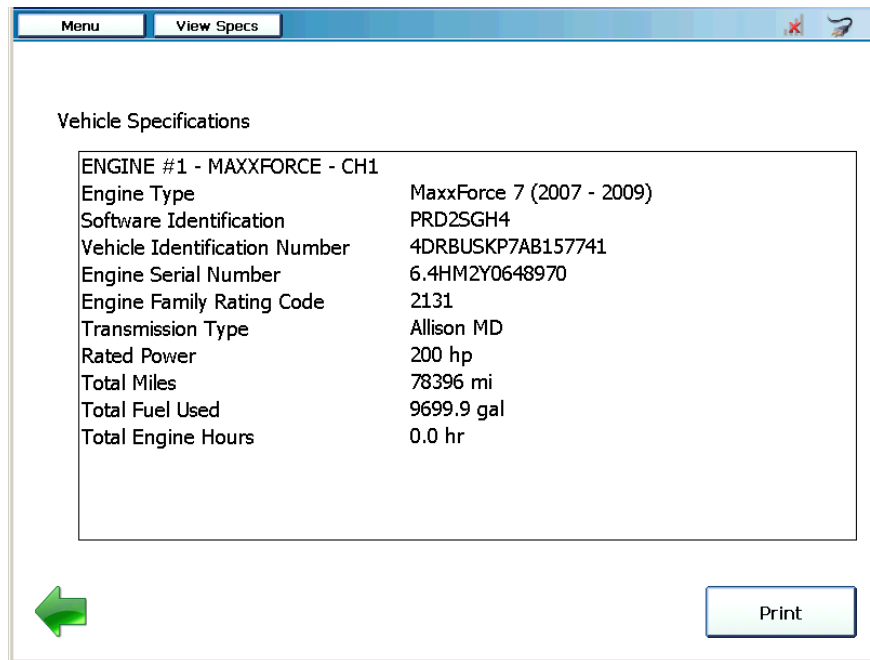


Figure 2.8 Vehicle Specifications

Once you have finished viewing the information, touch the **Print** button to send the information to a printer.

Touch the green **Back Arrow** at the bottom of the screen to return to the Diagnostics Menu (Figure 2.6).

## The Admin Menu

You access the Admin Menu from the Main Menu (Figure 2.5). It is used to perform various administrative tasks (e.g., configuring your device, registering software applications, installing updates). You can access the Admin Menu only when disconnected from the vehicle.

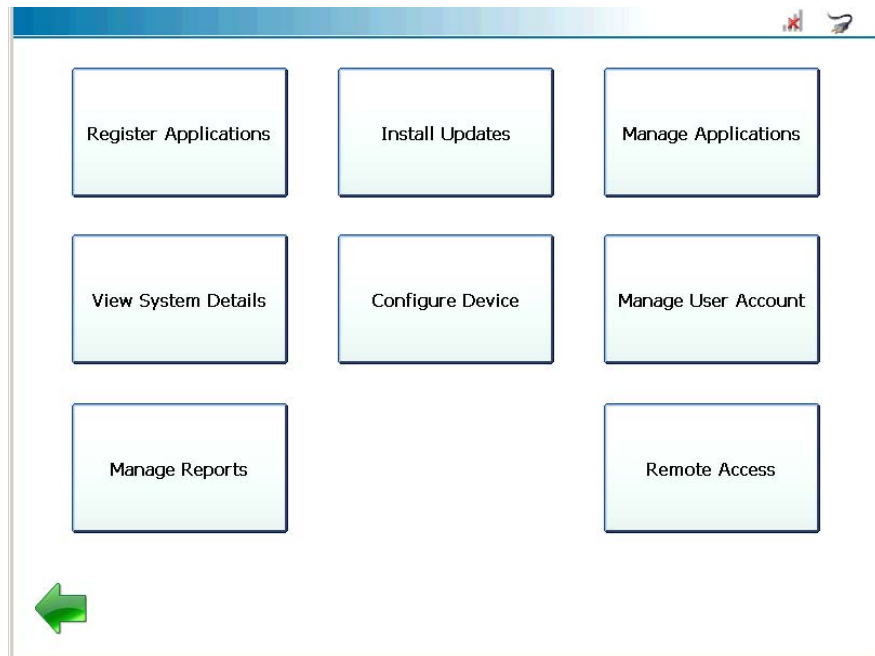


Figure 2.9 Admin Menu

**NOTE:**



For detailed information on the Admin Menu, refer to *Chapter 5: Using the Admin Menu*, later in this manual.

## Navigational Features

The PRO-LINK® Ultra is designed for ease of use in on-road conditions, in the service bay, or in test situations. Depending on the circumstances of use, you can make selections, and move from one screen to the next, by:

- Touching the screen with your finger.
- or
- Attaching a mouse to the USB type A port on the top of the device, and using the mouse to click on your selections.

On the touchscreen, you navigate and make selections though the following:

- Tabs (pg. 18)
- Buttons (pg. 22)
- Icons (pg. 22)

## Using Tabs

Once the scanning process is complete, the Diagnostics Menu is displayed.

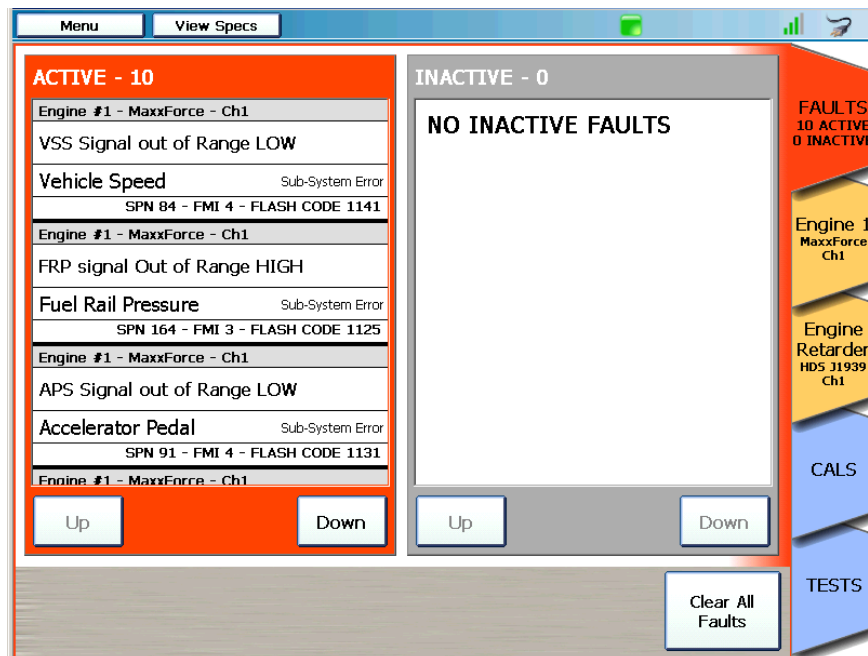


Figure 2.10 Diagnostics Menu



The FAULTS tab is always at the top of the stack (even though it might not be the currently active tab). You use the tabs along the right side of the menu to make your selections and activate the tab of your choice. For example, to activate TESTS, touch the **TESTS** tab.

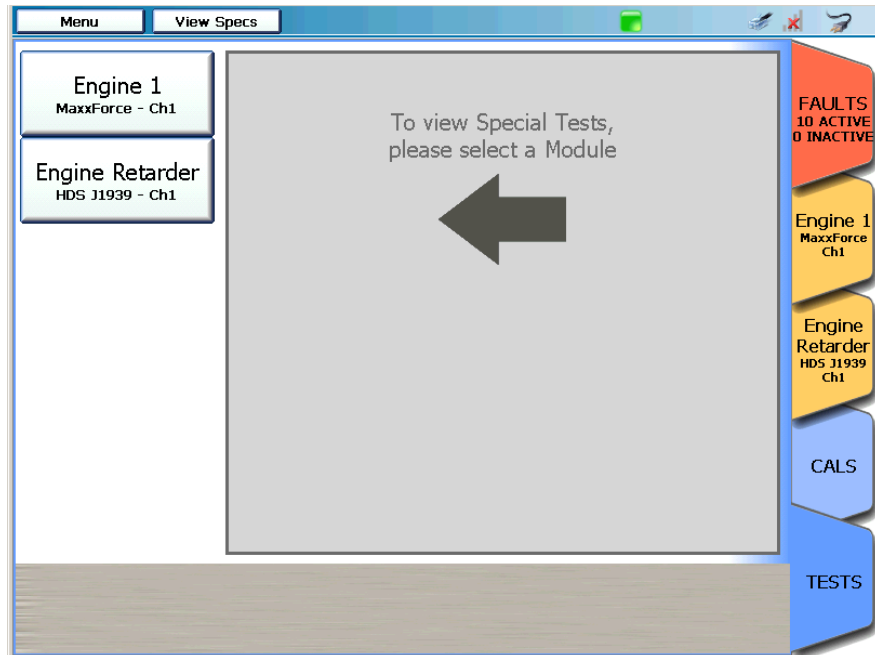


Figure 2.11 TESTS Tab

The tab you selected is activated and moved to the forward position in the stack. To navigate to another tab, just touch the appropriate tab.


**NOTE:**



If there are more tabs than can be displayed vertically on one screen, touch the **Down Arrow** beneath the tabs to access the rest of the tabs.

## Using Buttons

Buttons are another way to navigate through the system. The PRO-LINK® Ultra displays navigational and command buttons at appropriate points in the interface. The following table introduces many of the buttons you will encounter as you use the PRO-LINK® Ultra:






Buttons by Location	What the Button Does
<b>Main Menu</b>	
HD Scan	Starts the automatic vehicle scanning process.
Manual Scan	Starts the manual vehicle scanning process
LMT	Starts the Light and Medium Truck vehicle scanning process.
Play Recording <ul style="list-style-type: none"> <li>• Exit</li> <li>• Rewind</li> <li>• Play</li> <li>• Previous Bookmark</li> <li>• Next Bookmark</li> </ul>	Plays back previously recorded data. <ul style="list-style-type: none"> <li>–Exits playback.</li> <li>–Rewinds the recordings to the start.</li> <li>–Plays the recording.</li> <li>–Jumps back to a previous bookmark.</li> <li>–Jumps forward to the next bookmark.</li> </ul>
Admin	Displays the Admin Menu.
Demo Mode	Activates Demo Mode.
<b>All Tabs</b>	
Back Arrow 	Returns to previous screen or menu.
Cancel	Cancels the changes just made.
Previous Page	Moves back to the previous page of a list.
Next Page	Moves to the next page of a list.
OK	Closes an information pop-up window.
Print* *On the Print selection screen.	Prints chosen data, for example, Vehicle Info, Faults, Events, Parameters in a given category, the Quick List, and Trip Data.






<b>Buttons by Location</b>	<b>What the Button Does</b>
Change *On the Print selection screen.	Enables you to select a category of parameters to include on the report (if none are selected). It also enables you to change the parameter category (if one is already selected).
<b>FAULTS Tab</b>	
Clear All Faults	Clears all inactive faults.
Clear	Clears individual fault items (CAT <sup>®</sup> ACERT™ and CAT <sup>®</sup> EE applications only).
Up	Scrolls up the list of faults.
Down	Scrolls down in the list of faults.
<b>EVENTS Tab</b>	
	The EVENTS tab is available only with the CAT <sup>®</sup> ACERT™ and CAT <sup>®</sup> EE applications.
Up	Scrolls up the list of events.
Down	Scrolls down in the list of events.
<b>PARAMETERS Tab</b>	
View Categories	Displays the next page of categories.
Graph Page	Displays parameters in graphed format.
Record Mode • EXIT • View Real Time • View Results	Starts Record Mode –Exits Record Mode. –Displays the results in real time. –View the results.
View Quick List	Displays the parameters in a Quick List.
Remove Selected Items	Removes checked items from the Quick List.
Clear Quick List	Clears all parameters in the Quick List.
<b>CALS Tab</b>	
Categories	Returns you to the list of Categories
Close	Closes the datapoint modification screen.

Buttons by Location	What the Button Does
Update	Updates the ECM with the new calibration.
Program	Commits the new value to the ECM.
<b>TESTS Tab</b>	
Activate	Activates a test.
Deactivate	Deactivates a test condition.
Previous Result (DDEC application only)	Displays the previous result.
Quit	Stops the test.
Start	Starts the test.
Categories	Returns you to the list of Categories

## Using Screen Icons

The PRO-LINK® Ultra user interface also employs screen icons. Like tabs and buttons, you touch the icon to activate the feature or to open a screen. The following table introduces the available icons.

Icon	What the Icon Does
Back Arrow 	Takes you back to a previous screen or menu.
Registration 	Indicates that new activation codes have been downloaded from the server. Touch the icon to view a list of the applications with version numbers.
Ethernet 	Indicates that a cable is connected to the Ethernet port.
USB Port 	USB Port—Indicates that a USB device is in one of the USB ports.
Updates 	Updates Available—Alerts you that software updates are available for download.

Icon	What the Icon Does
<p data-bbox="483 478 544 506">WiFi</p>  	<p data-bbox="784 438 1325 501">WiFi signal bars provide a visual indication of WiFi signal strength.</p> <p data-bbox="784 514 1370 604">You can touch the icon to open the Wireless Networks screen. Touch the green <b>Back Arrow</b> to close the screen.</p> <p data-bbox="784 617 1341 680">When there is no wireless connection, the icon has a red x superimposed over it.</p>
<p data-bbox="483 739 565 766">Power</p>  	<p data-bbox="784 699 1284 726">Indicates the power source for the device.</p> <ul data-bbox="816 739 1370 1035" style="list-style-type: none"> <li data-bbox="816 739 1370 898">• Battery—When the device is running on internal battery power, the icon appears as a battery. You can tell how charged the internal battery is by the percentage displayed on the icon (e.g., 98%).</li> <li data-bbox="816 911 1370 1035">• AC—When the power source is external (i.e., either an AC/DC power adapter or through the vehicle to which the device is connected), the icon appears as a plug.</li> </ul>
<p data-bbox="483 1096 591 1123">Connect</p> 	<p data-bbox="784 1056 1287 1119">Indicates that the device is connected to a vehicle.</p>

# Chapter 3

## Getting Started



- ▼ *Supplying Power to the PRO-LINK Ultra, page 26*
- ▼ *Connecting to a Vehicle, page 27*
- ▼ *Scanning a Vehicle, page 29*
  - ▼ *Heavy Duty Scan, page 30*
  - ▼ *Manual Scan, page 36*
  - ▼ *Light and Medium Truck Scan, page 39*
- ▼ *Introduction to Tab Functions, page 40*
- ▼ *Viewing Vehicle Specifications, page 54*
- ▼ *Monitoring Battery Power, page 56*

This chapter explains the process of scanning a vehicle for faults and how to use the information that appears on the tabs once the scan is complete. You also learn how to view vehicle specifications and monitor remaining battery power.

**NOTE:**



---

Screen shots used throughout this manual are for illustrative purposes only. All data shown is fictitious in nature.

---

## Supplying Power to the PRO-LINK<sup>®</sup> Ultra

There are three ways to supply power to the PRO-LINK<sup>®</sup> Ultra. You can use the:

- **On-board battery**—An 11.1 volt, 2.4 A-hr Li-ion battery is included with your device.

The PRO-LINK<sup>®</sup> Ultra on-board battery is recharged when:

- The device is turned on and the AC/DC Power Adapter is being used
- The device is turned off and plugged into the AC/DC Power Adapter
- The device is plugged into the vehicle datalink connector

### NOTE:



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For more information on monitoring battery power, refer to *Monitoring Battery Power* on page 56 of this guide.

---

- **AC/DC power adapter**—If you do not wish to use the battery, or the battery power is low, you can use the AC/DC Power adapter to supply power to the device.
- **Vehicle itself**—In most vehicles, you can use the vehicle's datalink adapter to supply power to the PRO-LINK<sup>®</sup> Ultra.

### NOTE:



---

When not connected to an external power source, the device will automatically go into **Standby Mode** after 10 minutes. To exit Standby mode, tap the screen. To enter Standby Mode, lightly press the On/Off switch on the top of the device.

---

To turn on the PRO-LINK<sup>®</sup> Ultra, press and briefly hold the **On/Off** switch on the top of the device. To turn it off, hold down the On/Off switch for approximately four (4) seconds, or until the display goes blank.

## Connecting to a Vehicle

Prior to using the PRO-LINK<sup>®</sup> Ultra for diagnostics, you must connect to a vehicle using the power data cable and the appropriate adapter. **The vehicle should be in a key-on, engine-off state.**

To connect to a vehicle:

- 1 Make sure the vehicle ignition is in the **ON** position, however, the engine does not have to be running.
- 2 Connect the power data cable to the **Power/Data Port** on the top of the PRO-LINK<sup>®</sup> Ultra.
- 3 Select the appropriate adapter for the vehicle to which to want to connect.

Choices include the following:

- 6-pin Deutsch adapter
  - 9-pin Deutsch adapter
  - 16-pin J1962 adapter
- 4 Connect one end of the adapter to the power and data cable.
  - 5 Attach the other end of the adapter (e.g., the Deutsch connector end) to the vehicle's diagnostic connector.
  - 6 Press and briefly hold the **On/Off** switch on the top of the tool.

**NOTE:**



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To power down the PRO-LINK<sup>®</sup> Ultra, press and hold the On/Off switch.

---

**NOTE:**



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**Standby Mode**—You can place the device in Standby Mode by quickly pressing and releasing the On/Off switch. When not connected to an external power source, the device will automatically go into Standby Mode after 10 minutes. Lightly tap the screen to exit Standby Mode.

---



When you power up the PRO-LINK® Ultra, the following screen is displayed.

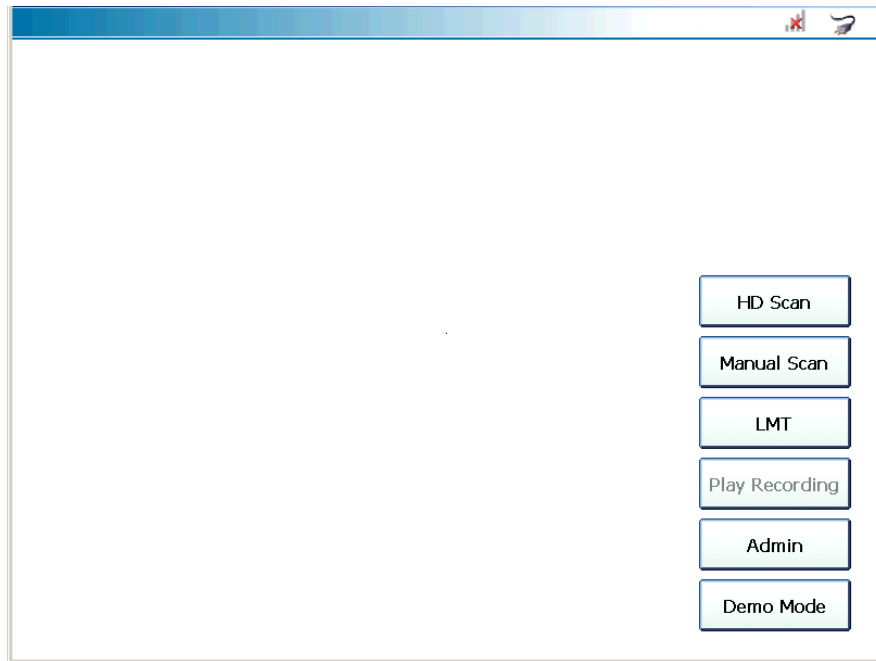


Figure 3.1 Main Menu

- 7 To begin scanning, move on to **Scanning a Vehicle**, next in this manual.

## Scanning a Vehicle

The following scanning options are available:

- **HD Scan (Auto)**—Scans the vehicle, presents a list of ECMs detected during scanning (J1708 and J1939), and enables you to select up to six (6) modules from the list.
- **Manual Scan (Manual)**—Scans the vehicle, presents a list of applications, and enables you to select one application from the list to load. Then available modules for the selected application are highlighted for your selection.
- **LMT**—Begins the Light and Medium Truck scanning process.

To scan a vehicle:

- 1 Verify that the connections are tight and solid before scanning begins.
- 2 From the Main Menu (Figure 3.1), select one of the following:
  - HD Scan (*pg. 30*)
  - Manual Scan (*pg. 36*)
  - LMT (*pg. 39*)

## Heavy Duty Scan

If you selected HD Scan on the Main Menu (Figure 3.1), the device scans the vehicle to identify available modules; during this process the **Scanning Vehicle...** indicator light flashes yellow.

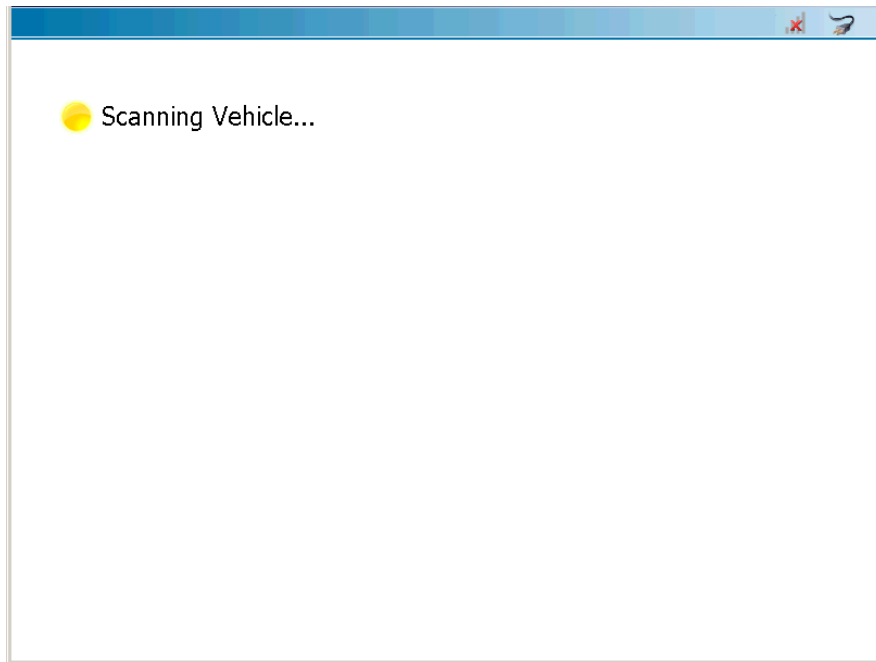


Figure 3.2 Scanning Vehicle Screen

- 3 Wait for a moment or two for the next screen to display.

The **Module Selection** screen is displayed.

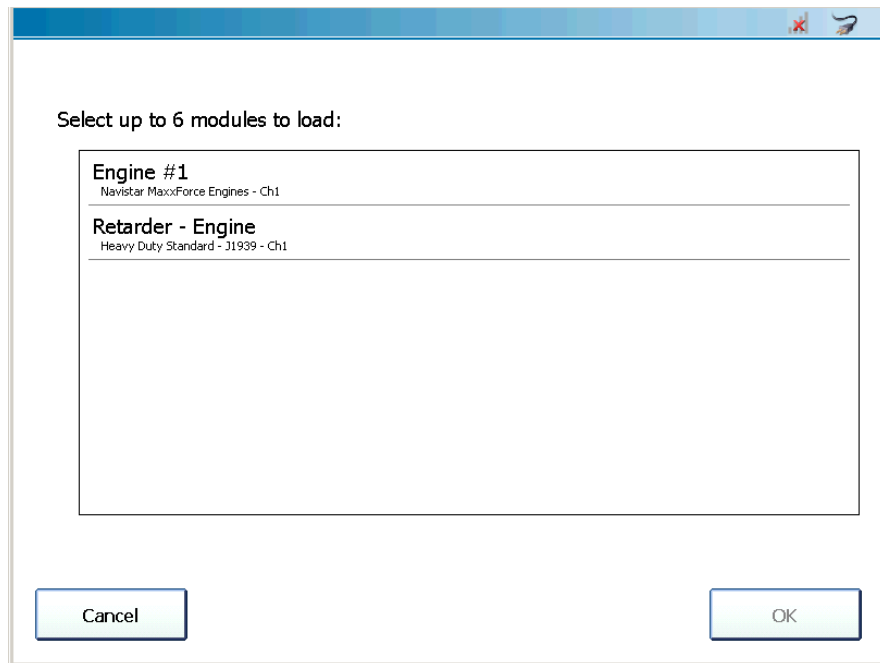



Figure 3.3 *Module Selection Screen*

**NOTE:**

---


 The device displays the available modules (e.g., **Engine #1**,) followed by the name of the software application that will be used to communicate with the module (e.g., **Navistar MaxxForce - Ch1**).

---

- 4 Depending on the size of the list, touch the screen and drag your finger to navigate down the list.
- 5 Touch the screen to make your selection (e.g., **Engine #1 - Navistar MaxxForce - Ch1** and **Retarder Engine - Heavy Duty Standard J1939 - Ch1**).

**NOTE:**

---

 You can select up to six (6) modules from the list

---

Your selections are highlighted.

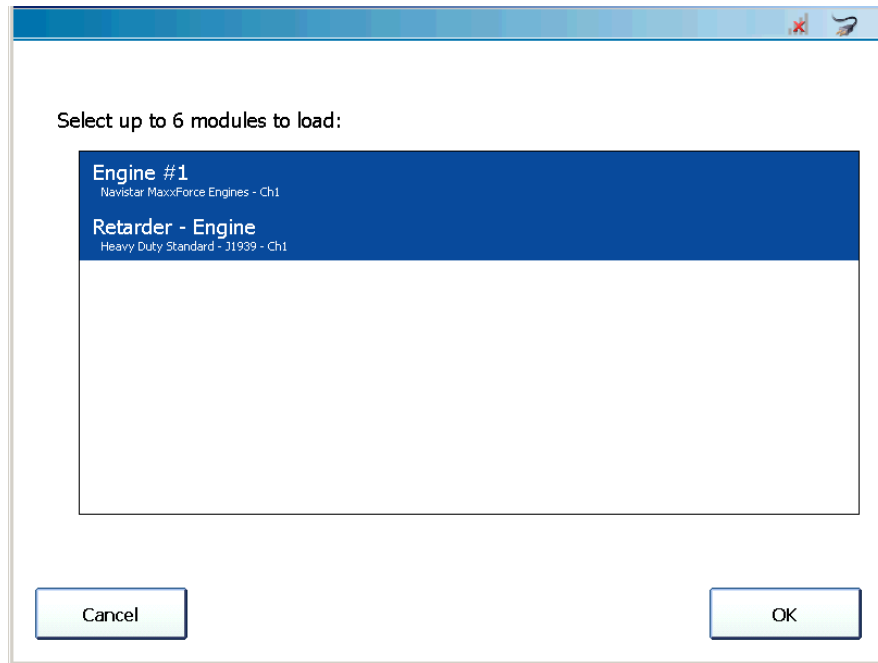


Figure 3.4 Module Selection Screen with Item Highlighted

- 6 Click **OK**.

If the vehicle scan is successful, the following screen is displayed.

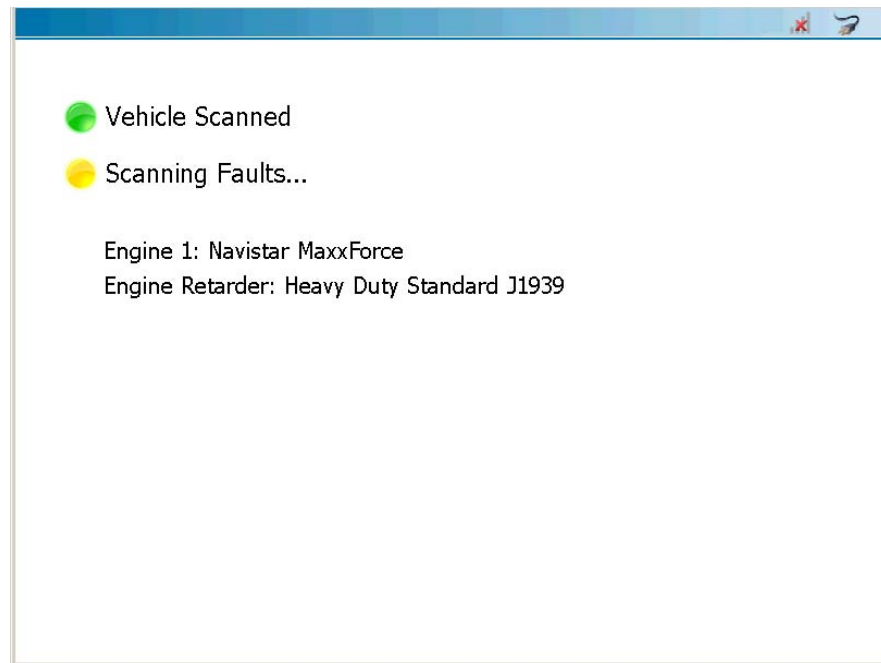


Figure 3.5 Vehicle Scanned Screen

The **Vehicle Scanned** indicator becomes solid green, and the modules you selected are listed (e.g., **Engine 1: Navistar MaxxForce** and **Engine Retarder: Heavy Duty Standard J1939**).

The PRO-LINK® Ultra scans for faults for each of the selected modules. The **Scanning Faults...** indicator flashes yellow while the scan is in progress.

When a module's faults are scanned successfully, a green check mark appears to the left of the module in the list.

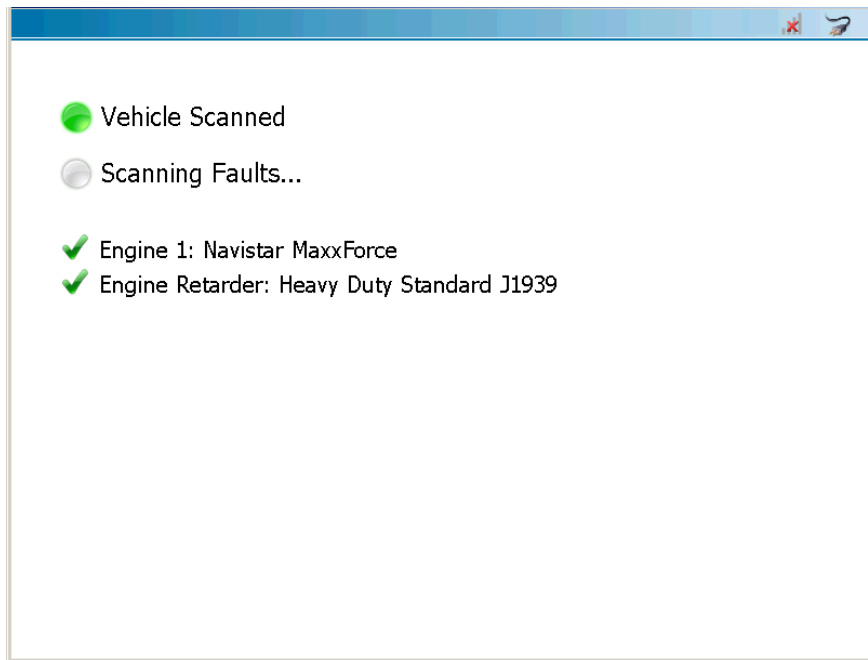


Figure 3.6 Check Mark Indicating Faults Scanned for Navistar MaxxForce

When all the faults of all the modules are scanned successfully, the **Scanning Faults...** indicator changes to a solid green **Faults Scanned** indicator.

The **Diagnostics Menu** is displayed with the FAULTS tab on the top of the tab stack.

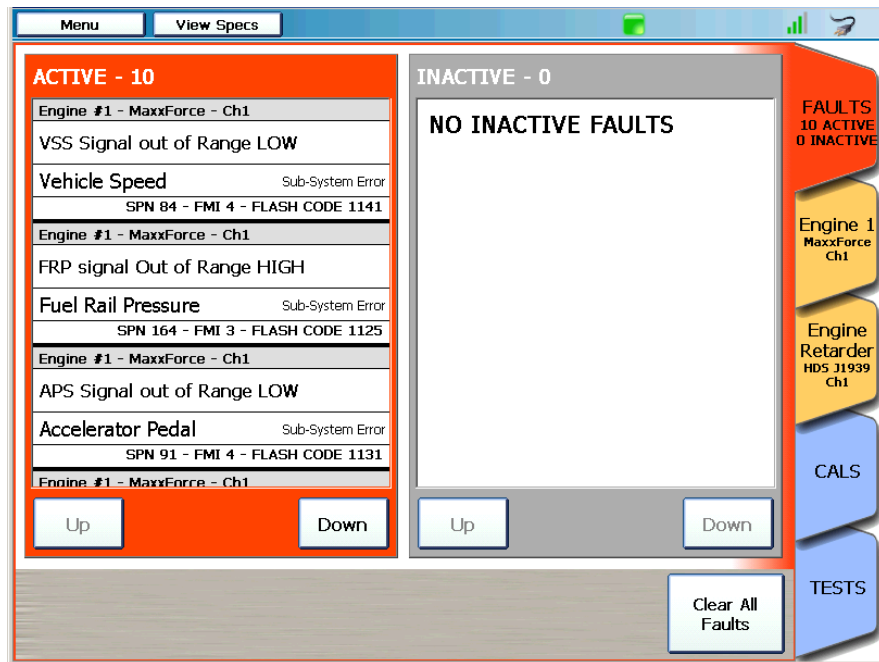


Figure 3.7 Diagnostics Menu

**NOTE:**



The square green icon at the top of the display indicates that the PRO-LINK® Ultra is connected to a vehicle.



## Manual Scan

Manual Scan is used in instances where you want to load an application that was *not presented* for selection during HD Scan (e.g., Heavy Duty Standard J1708). Manual Scan is also used by Technical Support in resolving customer support issues.

If you selected Manual Scan on the Main Menu (Figure 3.1), the following screen is displayed once initial scanning is complete.

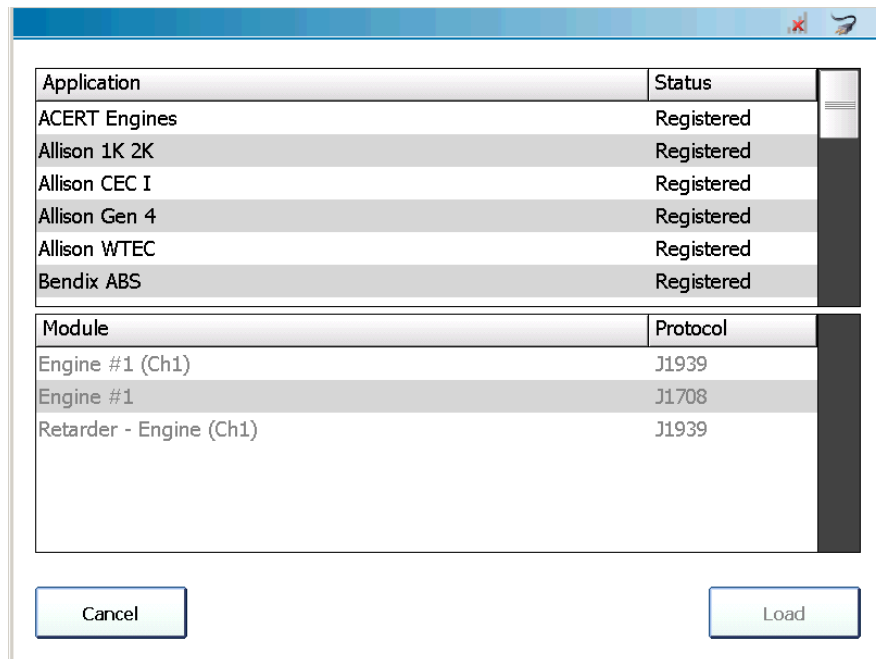


Figure 3.8 Manual Scan Module Selection Screen

Direct your attention to the Application list at the top of the screen.

You can touch and drag the scroll bar on the right side of the screen to scroll through the list until you find the application you want to load (e.g., **Heavy Duty Standard J1708**).

Your selection is highlighted and the available module is displayed in bold.

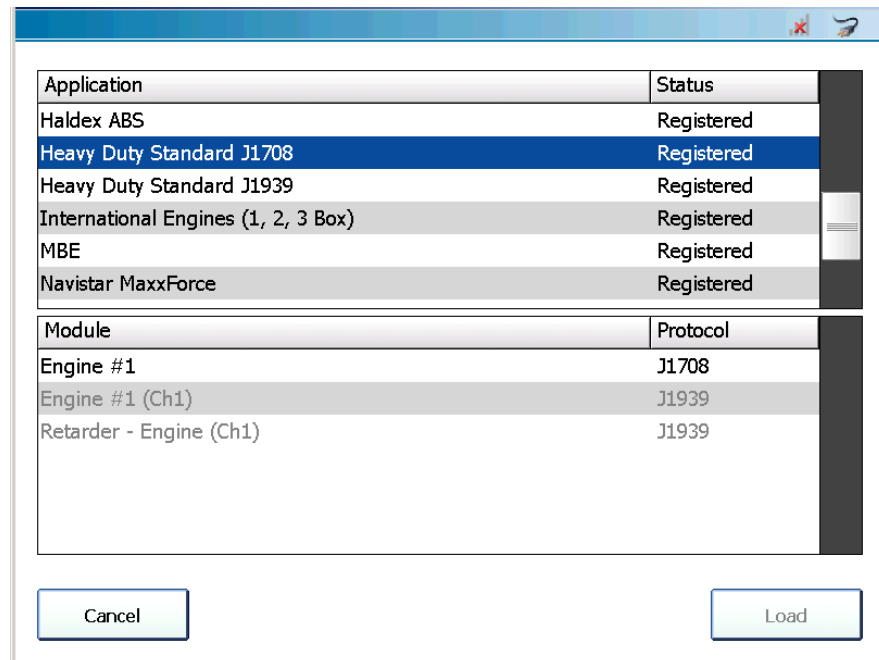


Figure 3.9 Heavy Duty Standard J1708 Selected

After selecting the application, move to the list of modules and select the available module (**Engine #1 - J1708**).

When you have finished making your selections, touch **Load**.

The following screen is displayed.

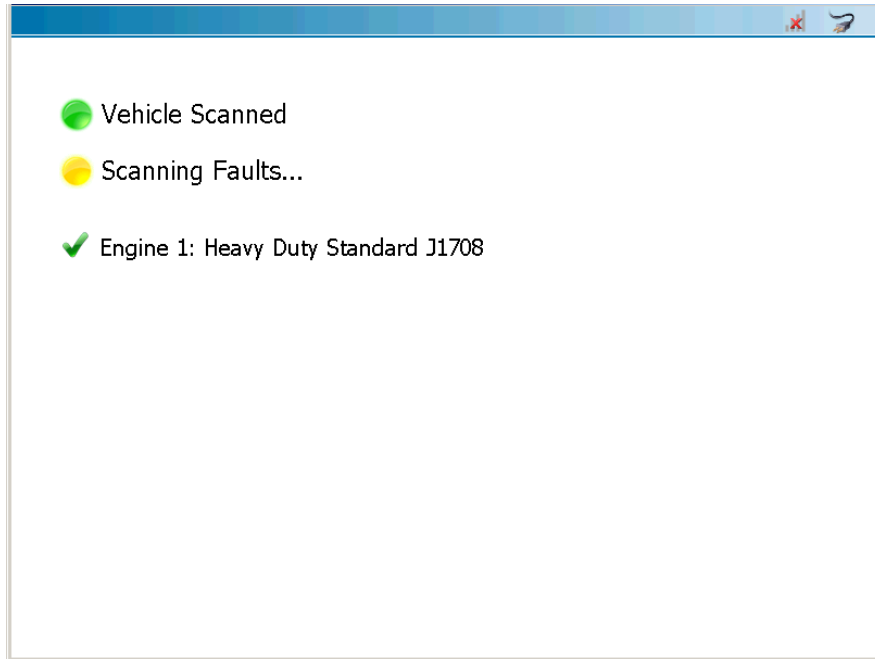


Figure 3.10 Vehicle Scanned Screen

When the faults scanning process is complete, the **Diagnostics Menu** is displayed (Figure 3.7)

## Light and Medium Truck Scan

If you selected LMT from the Main Menu (Figure 3.1), the following screen is displayed.

The screenshot shows a software window titled "OBDII/Light Medium Truck". Inside the window, there are two radio button options: "Live Vehicle" (which is selected) and "Reconnect to Last Vehicle Selected". Below these options are four dropdown menus labeled "Application", "Year", "Module", and "VIN (8th digit)". The "Application" dropdown is currently set to "Generic OBDII". At the bottom of the window, there are two buttons: "OK" on the left and "CANCEL" on the right.

Figure 3.11 OBD II/Light Medium Truck Screen

You use this screen to select the application, year, and other selection criteria to load the appropriate data for the selected vehicle.

### NOTE:



For detailed information on using the LMT application, please refer to the ***Light and Medium Truck (LMT) Application User's Guide***.

For information on using the screen in Figure 3.11, please refer to "Beginning the Scanning Process" and "Selecting an Application" in Chapter 2 of the same guide.

## Introduction to Tab Functions

Once the PRO-LINK® Ultra has scanned the vehicle for faults, the **Diagnostics Menu** is displayed (Figure 3.12). A number of menu-selection tabs are displayed on the right side of the screen.

- FAULTS (pg. 40)
- EVENTS (pg. 42)
- PARAMETERS (pg. 43)
- CALS (pg. 46)
- TESTS (pg. 50)

Touch the tab to display the appropriate screen for that feature.

## The FAULTS Tab

The **FAULTS** tab displays the faults detected on the vehicle for all modules. The faults are separated into two lists, ACTIVE faults on the left side and INACTIVE faults on the right side.

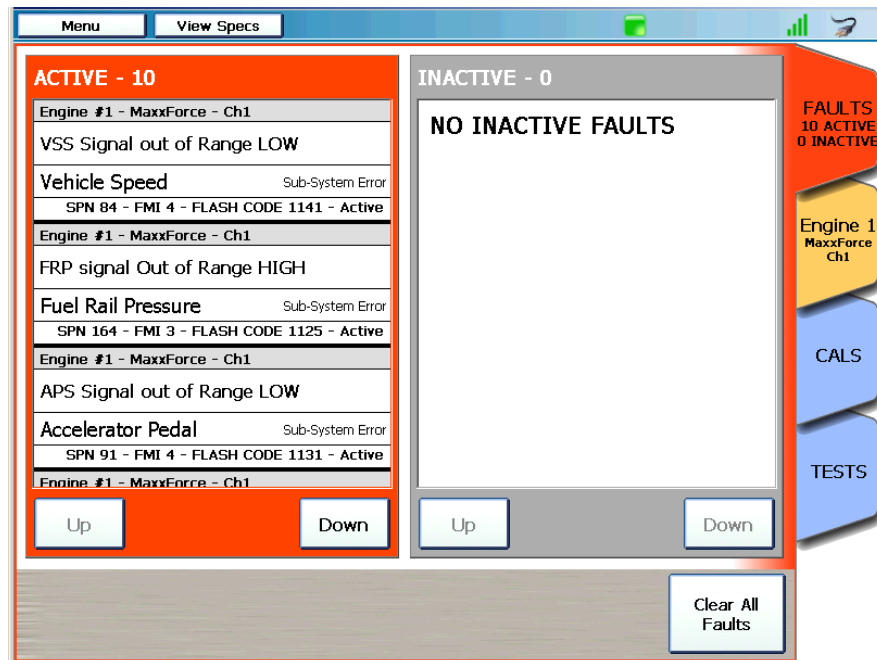


Figure 3.12 Active and Inactive Fault Codes

When faults are detected during scanning, they are listed in either the ACTIVE or INACTIVE fault lists. The heading of each list includes the number of faults in the list (e.g., ACTIVE - 10).

You can use the **Up** and **Down** buttons to move up and down the list.

Each item in the list contains the following information about an active fault:

Line Number	What's Displayed
1 (top, gray line)	The name of the module where the fault was found (e.g., <b>Engine #1</b> ) followed by the name of the software application being used to communicate with the module (e.g., <b>Navistar MaxxForce - Ch1</b> ).
2	A short description of the fault (e.g., VSS Signal out of Range LOW).
3	Parameter information associated with the fault (e.g., Vehicle Speed, Sub-System Error).
4 (bottom line)	SAE/DTC information about the fault (e.g., SPN 84 - FMI 4 -FLASH CODE 1141)

**NOTE:**



Complete information about SAE/DTC information can be found in the **Snap-on Fault Code Guide (EEHD903008)**.

## The EVENTS Tab

The EVENTS tab displays the events detected on vehicles with CAT® ACERT™ and Caterpillar® Electronic Engines.

**NOTE:**



The EVENTS tab is available only with the CAT® Engines with ACERT® Technology and Caterpillar® Electronic Engines applications.

The events are separated into two lists:

- CRITICAL events on the left side
- LOGGED events on the right side

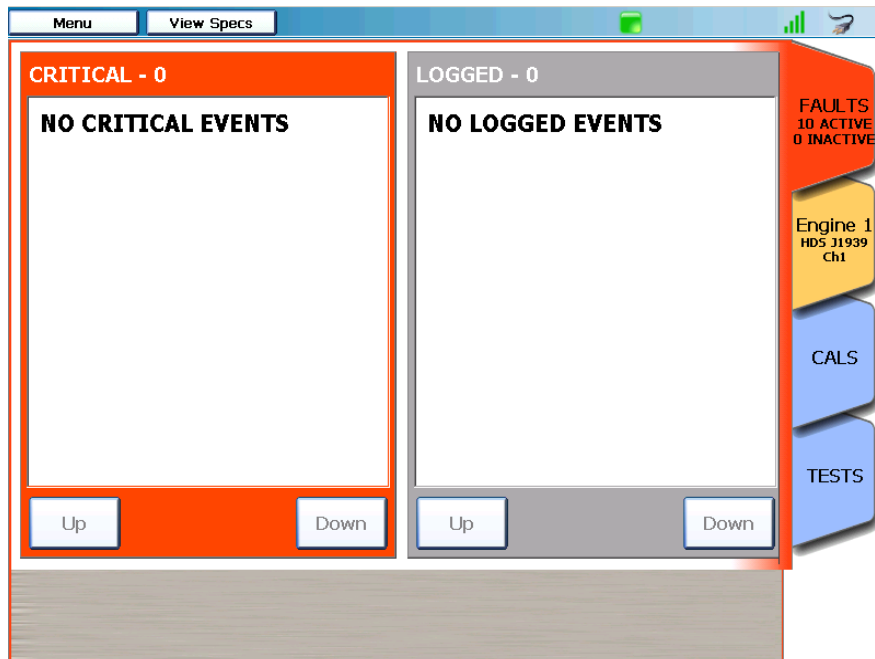


Figure 3.13 The Events Tab

Use the **Up** and **Down** buttons to navigate up and down in the list.

If events from more than one electronic control module (ECM) are detected, the name of the ECM is listed in the first line of each fault item (e.g., **Engine #1**). The top line of the event item will change to match the specific module (e.g., “Engine #2” or “Transmission #1”).

## The PARAMETERS Tab

The PRO-LINK® Ultra creates a PARAMETERS tab for each module loaded (e.g., **Engine 1 - MaxxFace - Ch1** and **Engine Retarder - HDS J1939 Ch1**). So, depending on the number of modules loaded, you may, or may not, have multiple PARAMETERS tabs displayed.

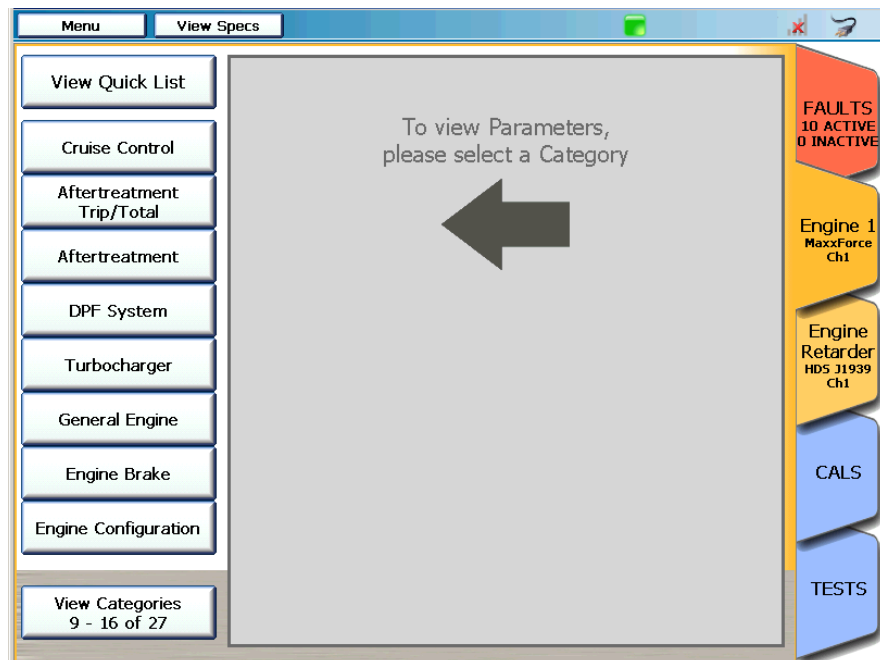


Figure 3.14 Category Selection Screen

The first time the PARAMETERS tab is selected during your session the you are prompted to select a parameter category. The categories displayed depend upon the module and application.

Use the **View Categories** button at the bottom of the list to scroll through all the categories in the list. The button also indicates how many items are in the list and your current location in the list (e.g., **9 - 16 of 27**).

Touch the screen to select a category (e.g., **Cruise Control**) and display the parameters for that category.



The **Parameters** screen is displayed.

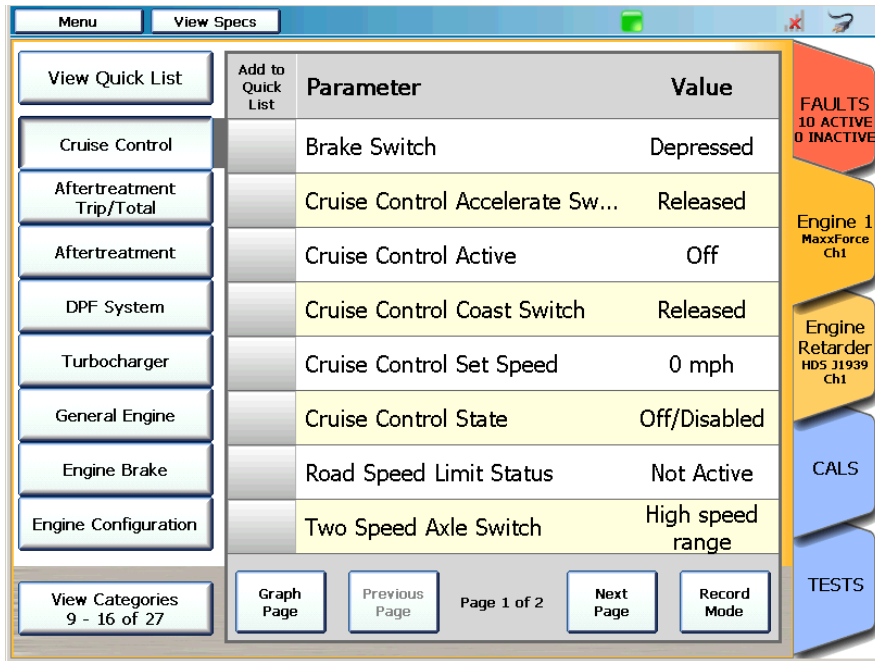


Figure 3.15 Parameters Screen

Use the **Next Page** and **Previous Page** buttons to scroll through all the items in the list.

Other features available on the Parameters tab include the following:


Feature	How to Use It
<b>Add to Quick List</b>	<p>To create a Quick List, touch the box in the Add to Quick List column next to the parameter you want to add to your list.</p> <p>There can be only one Quick List per session and the Quick List is limited to eight (8) parameters.</p> <p><b>Note:</b> For detailed information on creating a Quick List, refer to “Creating and Viewing a Quick List” in <i>Chapter 4: Using the Diagnostics Menu</i>, later in this manual.</p>
<b>View Quick List</b>	<p>Touch the View Quick List button at the top left of the display to view the Quick List you have created.</p>

Feature	How to Use It
<b>Graph Page</b>	<p>Touch the Graph Page button to view the parameters on the current page in a graph. Touch the green <b>Back Arrow</b> button at the bottom of the graph display to return to the list of parameters. You can also create a Quick List and then view the parameters in the list as a graph.</p> <p><b>Note:</b> For detailed information on the Graph Page feature, refer to “Graphing Data” in <i>Chapter 4: Using the Diagnostics Menu</i>, later in this manual.</p>
<b>Record Mode</b>	<p>Touch the Record Mode button to create a real time recording, which you can save and play back at a later time.</p> <p><b>Note:</b> For detailed information on the Record Mode feature, refer to “Record Mode” in <i>Chapter 7: Utilities</i>, later in this manual.</p>

## The CALS Tab

The CALS tab lists the calibrations available for each module and displays the screens you need to calibrate those parameters. If a module does not contain any calibrations, a message is displayed.

**NOTE:**

 For some parameters a password is required.

The first time the CALS tab is selected during a session, a message instructs you to select a module.

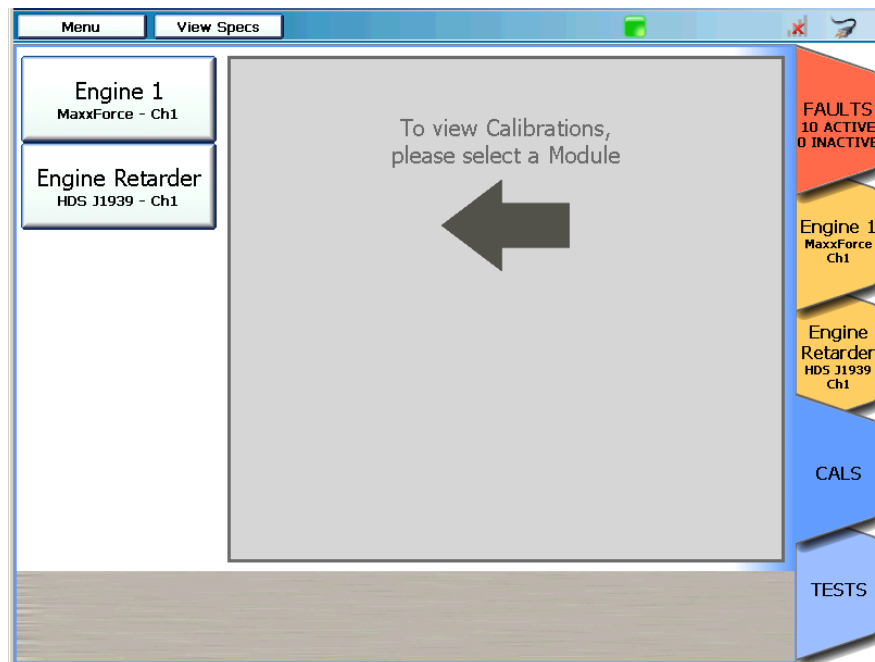


Figure 3.16 Select a Module Screen

Select a module (e.g., **Engine 1 - MaxxFORce - Ch1**).

The **Available Categories** screen is displayed.

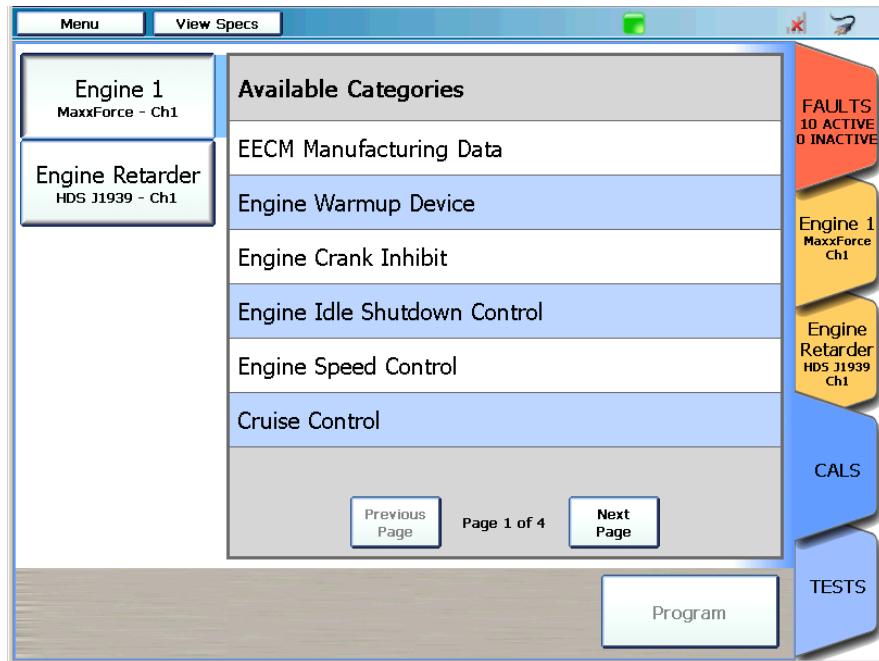


Figure 3.17 Available Categories Screen

**NOTE:**



You can use the **Next Page** and **Previous Page** buttons to page through the list.

Touch the screen to make your selection (e.g., **Cruise Control**), and view the datapoints for that category.

The **Cruise Control** screen is displayed.

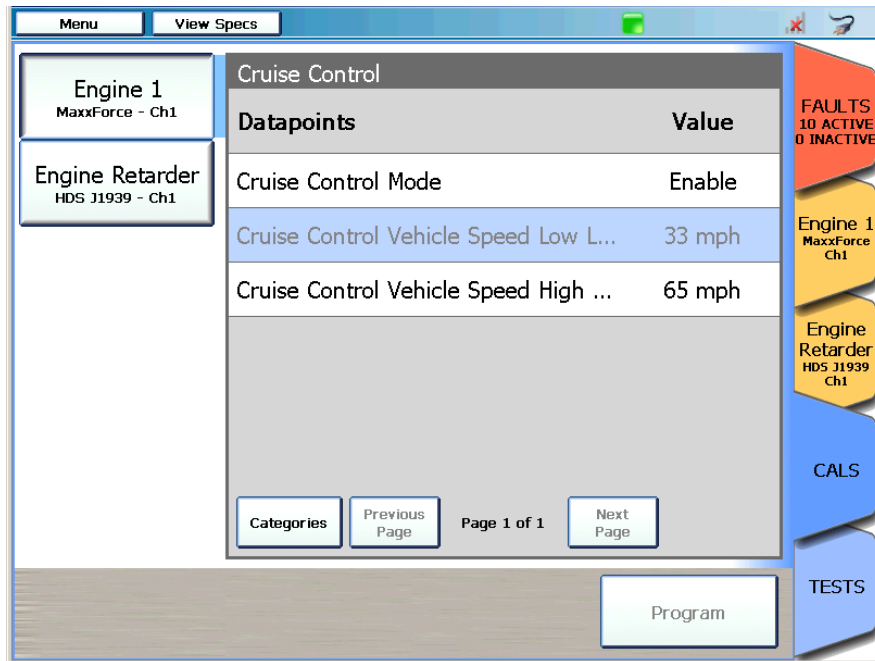


Figure 3.18 Cruise Control Screen

You can touch and hold a datapoint to display its full description (e.g., **Cruise Control Vehicle Speed High...**).

A pop-up is displayed with the full description.

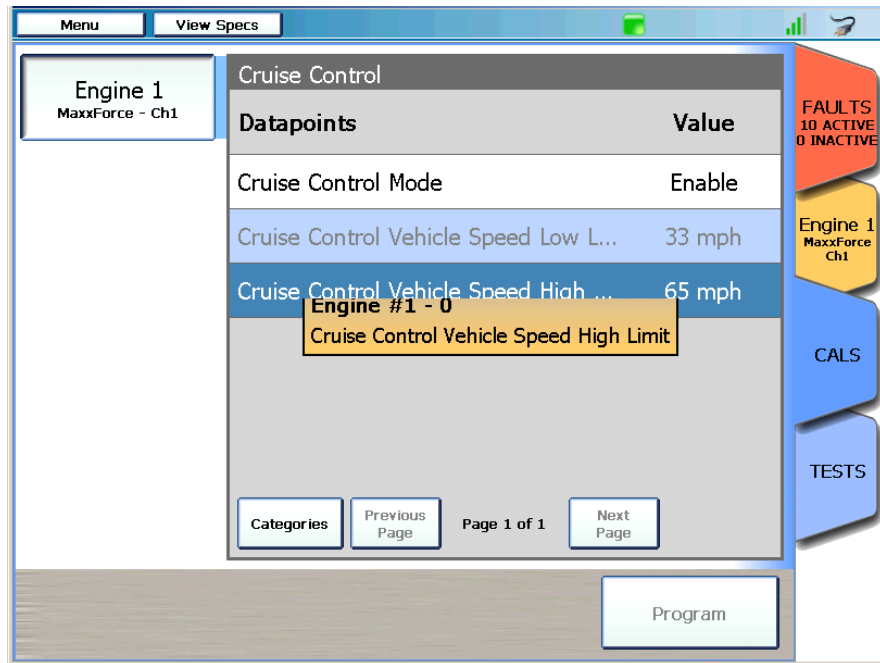


Figure 3.19 Ddatapoint with Pop-Up Description

This feature can be helpful if the datapoint description is too long to fit on the screen.

## The TESTS Tab

The **TESTS** tab is used to perform special tests. Some of the tests you can run include the following:

- Histograms
- Injector actuation pressure tests
- Injector solenoid tests

A typical test enables you to perform a function or test to aid in the diagnostics of a vehicle or system. For example, the **Cylinder Cutout Test** enables you to turn on or turn off the cylinders in an engine to help diagnose problems with an individual cylinder or group of cylinders.

The PRO-LINK<sup>®</sup> Ultra enables you to perform the special tests that have been programmed into the ECM by the original equipment manufacturer (OEM).

When you select the **TESTS** tab, the Caution screen is displayed.

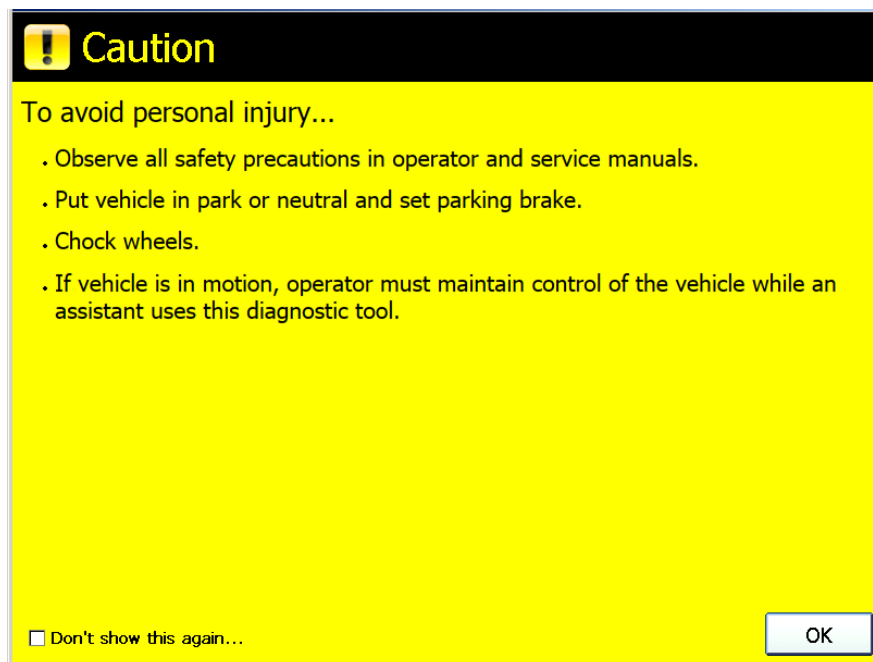


Figure 3.20 Caution Screen

Read the warning and perform any of the necessary precautions; then touch **OK** to continue.

The **Module Selection** screen is displayed.

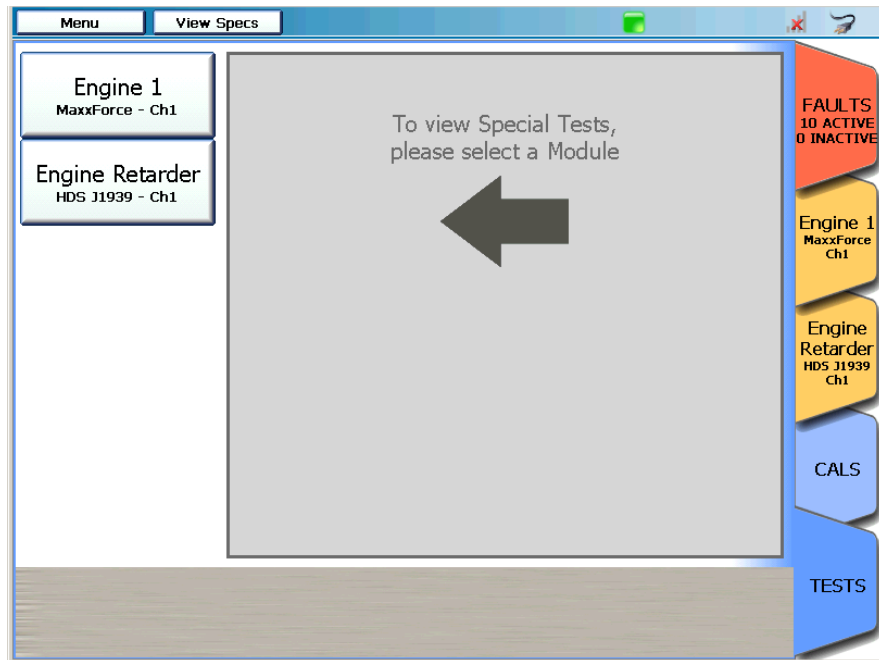


Figure 3.21 *Module Selection Screen*

Select the module on which you want to run tests (e.g., **Engine 1 - MaxxFORCE - Ch1**).



The **Available Categories** screen is displayed.

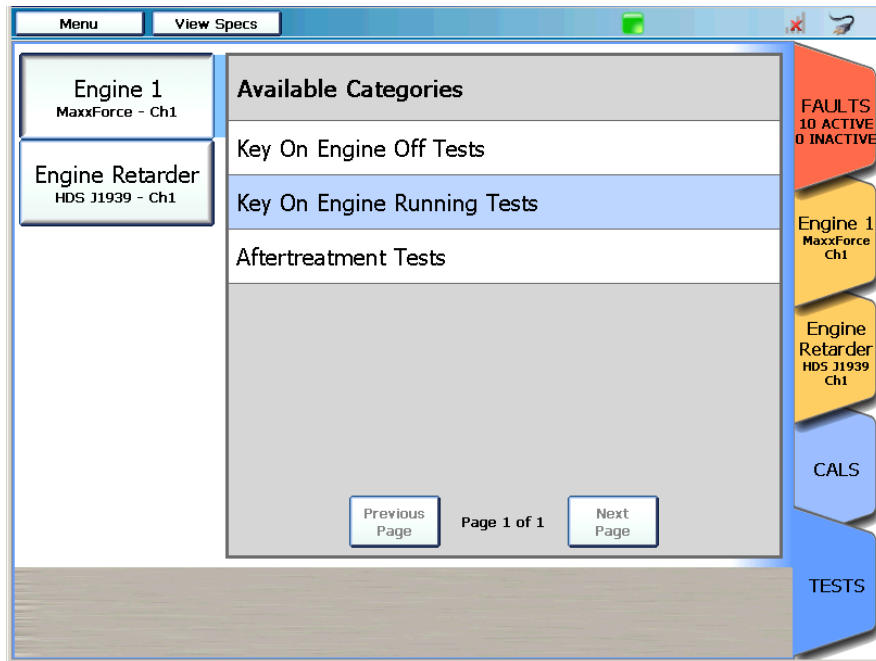


Figure 3.22 Available Categories Screen

Touch the screen to select a category from the list (e.g., **Key On Engine Off Tests**).

A list of **Available Tests** is displayed.

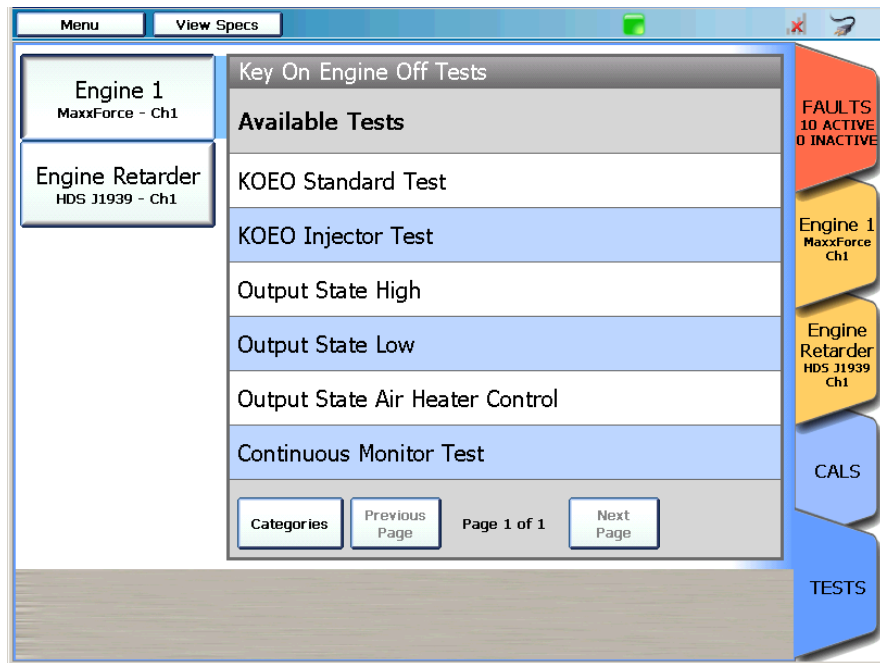


Figure 3.23 Available Tests Screen

Select a test from the list; the appropriate test screen is displayed. Follow the on-screen prompts to run the test.

**NOTE:**



For detailed information on running a particular test, refer to the application user's guide for the software title in question (e.g., NAVISTAR MaxxFORCE Application User's Guide). User's guides are available in portable document format (PDF) on the CD that shipped with your PRO-LINK® Ultra.

## Viewing Vehicle Specifications

The **View Specs** button is always displayed at the top of the **Diagnostics Menu**.

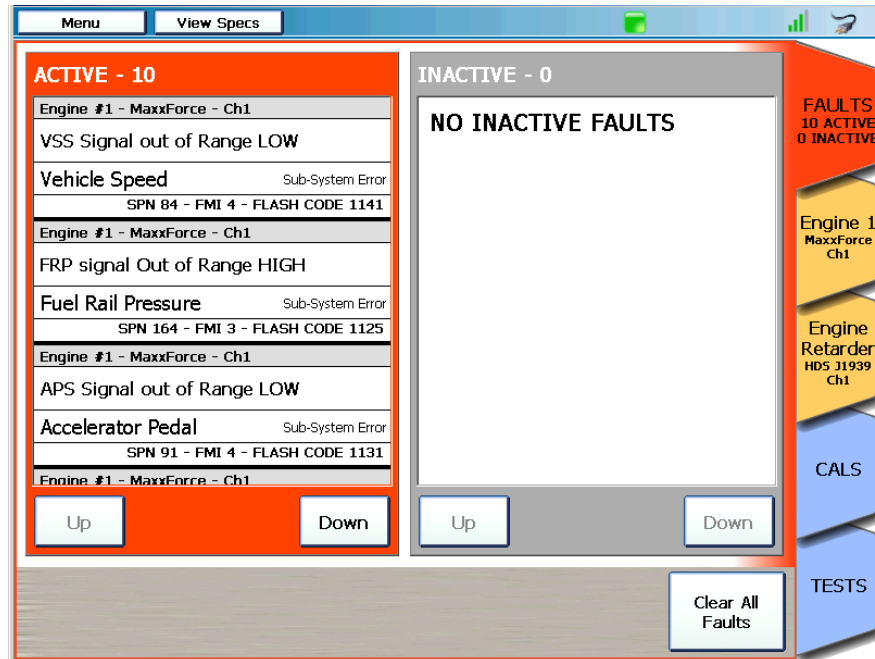


Figure 3.24 Diagnostics Menu Showing the View Specs Button

When you touch the View Specs button, the following information is displayed for the vehicle to which you are connected:

- Module (e.g., Engine #1 - MaxxFORCE - Ch1)
- Engine Type
- Software Identification
- Vehicle Identification Number (VIN)
- Engine Serial Number
- Engine Family Rating Code
- Transmission Type
- Rated Power
- Total Miles
- Total Fuel Used
- Total Engine Hours

The **Vehicle Specifications** screen is displayed.

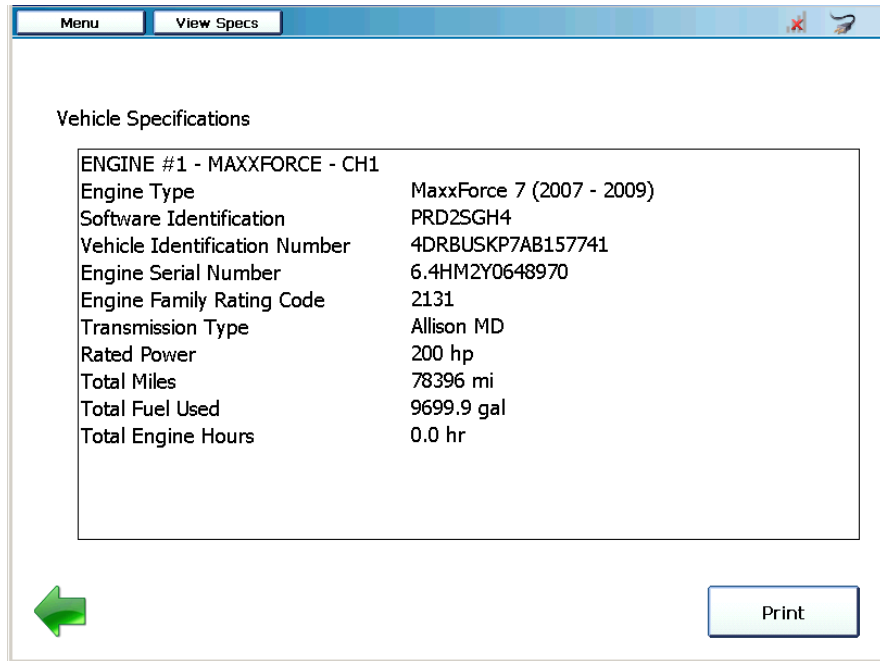


Figure 3.25 Vehicle Specifications Screen

Touch the **Print** button to save the information to a file, or to print directly to a printer if you are connected to a printer.

**NOTE:**



For information on setting up a printer, refer to "Managing Printers" in *Chapter 5: Using the Admin Menu*, later in this guide

When you have finished viewing the information, touch the green **Back Arrow** at the bottom of the screen to go back to the list of Available Tests (Figure 3.23).

## Monitoring Battery Power

The PRO-LINK® Ultra obtains power from any of the following sources:

- Its own internal battery pack
- The vehicle (when connected to a vehicle)
- AC/DC power adapter (when plugged into a power source)

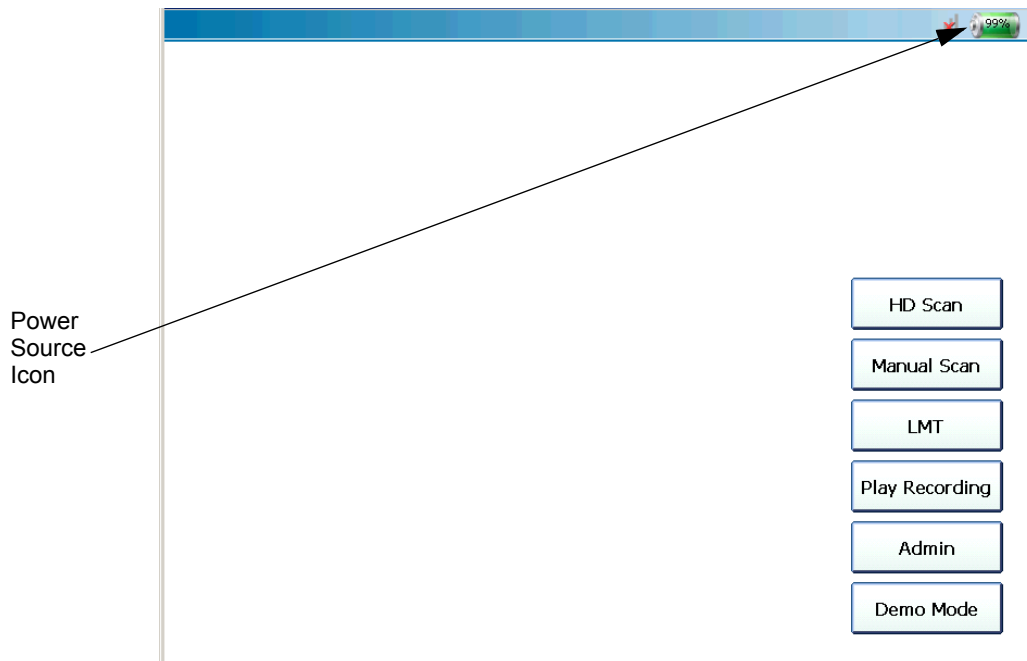


Figure 3.26 Main Menu Showing the Power Source Icon

The Power Source icon has two states:



When the device is either connected to a vehicle or plugged into a power a power source via the AC/DC power adapter.



When the device is obtaining power from the battery pack.

Use the battery version of the icon to monitor remaining battery power when your power source is the internal battery. The icon displays a number indicating the percentage of power left (e.g., 99%).

The battery version of the icon also changes color as the status of the remaining power on the battery changes.

- Green = High (between 100 and 50% power remaining)
- Yellow = Low (between 50 and 26% power remaining)
- Red = Critical (between 25 and 0% remaining)

When the indicator gets down to 25%, you need to switch to another power source (e.g., the AC/DC power adapter).

# Chapter 4

## Using the Diagnostics Menu



- ▼ *The Diagnostics Menu, page 60*
- ▼ *The FAULTS Tab, page 61*
- ▼ *The EVENTS Tab, page 65*
- ▼ *The PARAMETERS Tab, page 66*
- ▼ *The CALS Tab, page 81*
- ▼ *The TESTS Tab, page 92*
- ▼ *Using the Features Available on the Menu Button, page 98*
  - ▼ *Ending Your Diagnostics Session, page 106*
  - ▼ *Viewing Vehicle Specifications, page 110*

This chapter provides detailed instructions on using the diagnostic features found on the Diagnostics Menu when PRO-LINK® Ultra is connected to a vehicle.

**NOTE:**



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Screen shots used throughout this manual are for illustrative purposes only. All data shown is fictitious in nature.

---

## The Diagnostics Menu

Once the PRO-LINK® Ultra has successfully scanned the vehicle for faults, the **Diagnostics Menu** is displayed.

**NOTE:**



For detailed information on connecting to a vehicle and the scanning process, refer to “Connecting to a Vehicle” and “Scanning a Vehicle” in *Chapter 3: Getting Started*, earlier in this manual.

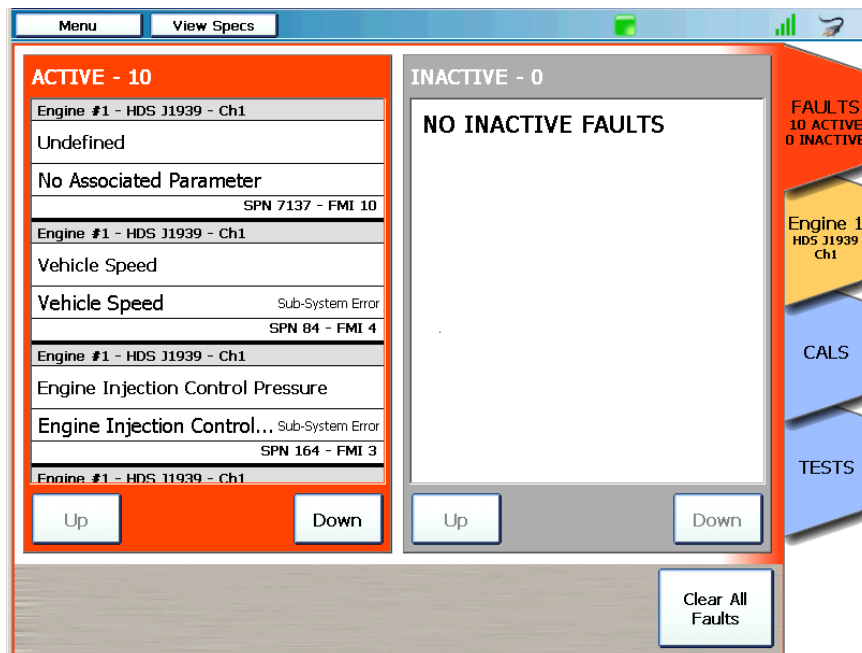


Figure 4.1 Diagnostics Menu

At this point, you are ready to start using the features available from the Diagnostics Menu. A number of menu-selection tabs are displayed on the right side of the screen.

- FAULTS tab (pg. 61)
- EVENTS tab (pg. 65)
- PARAMETERS tab (pg. 66)
- CALC tab (pg. 81)
- TESTS tab (pg. 92)



## The FAULTS Tab

The FAULTS tab is the red tab located at the top of the stack of menu-selection tabs. From the FAULTS tab, you can:

- View active and inactive faults (pg. 61)
- View more information on a particular fault (pg. 62)
- Clear all inactive faults (pg. 64)

## Viewing Active and Inactive Faults

When the scanning process is complete, the Diagnostics Menu (Figure 4.2) is displayed with the FAULTS tab in the top position. Faults are displayed in two categories:

- ACTIVE faults on the left side
- INACTIVE faults on the right side

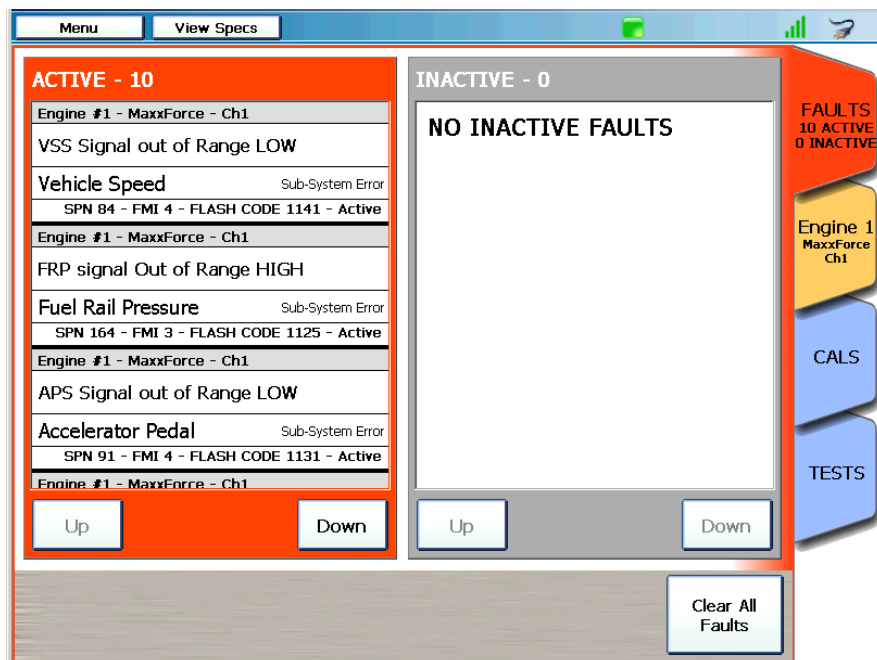


Figure 4.2 FAULTS Tab

Use the **Up** and **Down** buttons to navigate up and down within the two lists.

Each fault listed contains the following information for that fault:

Line Number	Contents
1 (top, gray line)	The name of the module where the fault was found (e.g., Engine 1 - MaxxForce Ch1)
2	Either the name of the parameter experiencing the fault, or a combination of the name and a description of the fault (e.g., VSS Signal out of Range LOW).
3 (not displayed for INACTIVE faults)	Parameter value associated with the fault (e.g., Vehicle Speed - Sub-System Error)
4 (bottom line)	SAE/DTC information about the fault (e.g., SPN 84 - FMI 4 - FLASH CODE 1141 - Active)

## Viewing More Info

You can view more information on a particular fault (e.g., Freeze Frame Data and PRO-LINK® Repair-Connect troubleshooting information) by touching the fault to display the More Info screen.

To view more information on a particular fault:

- 1 Touch the screen to select the fault for which you want to view more information (e.g., **Vehicle Speed**).

The **More Info** screen is displayed with the DESCRIPTION pane activated.

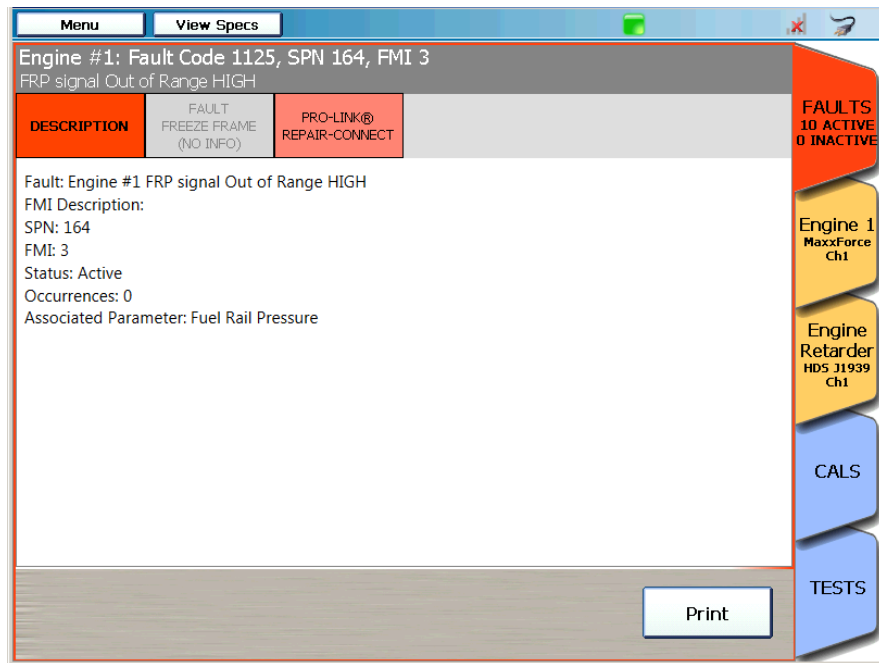


Figure 4.3 More Info Screen

- 2 Touch the **FAULT FREEZE FRAME** button at the top of the display to view freeze frame information (if available).
- 3 Touch the **DESCRIPTION** button to go back to the description pane.

**NOTE:**



If you have purchased a subscription to Repair-Connect, touch the **PRO-LINK® REPAIR-CONNECT** button at the top of the screen to display the Repair-Connect login screen. For detailed information on using Repair-Connect, refer to *Chapter 6: Using PRO-LINK® Repair-Connect*, later in this manual.

- 4 Touch the **Print** button to send the page to the printer.
- 5 Touch the red **FAULTS** tab to go back to the list of faults (Figure 4.2).

## Clearing Inactive Faults

Inactive faults can be cleared by touching the Clear All Faults button at the bottom of the screen. Faults may not be cleared individually.

**NOTE:**



When you clear all faults, both ACTIVE and INACTIVE faults are cleared. Then the PRO-LINK® Ultra re-scans the vehicle and re-lists the ACTIVE faults found during the re-scan.

To clear all inactive faults:

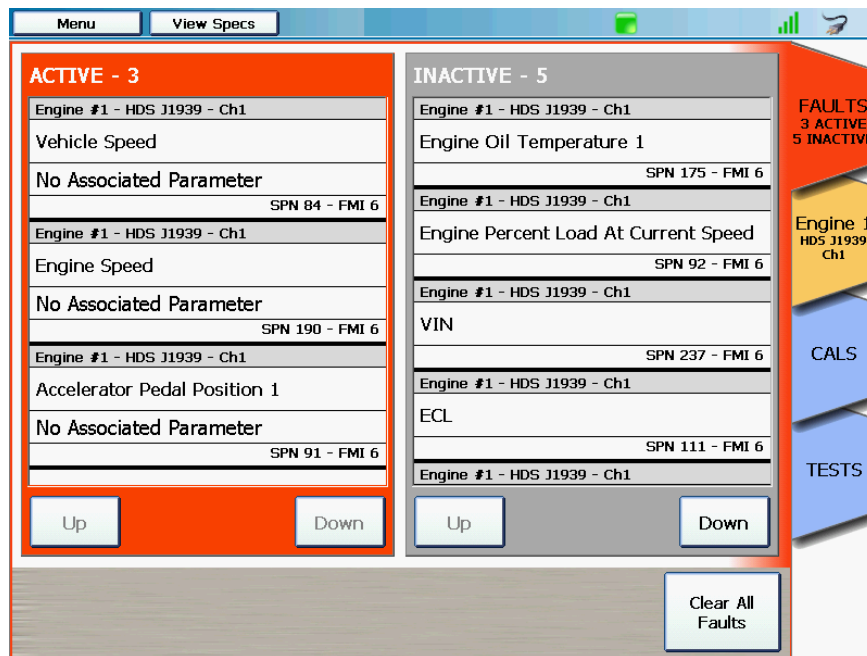


Figure 4.4 Sample FAULTS Tab

- 1 Touch **Clear All Faults**.

An “Are you sure you want to clear all faults?” question box is displayed.


- 2 To confirm your decision to clear all faults, touch **Yes**.

All faults are cleared, the vehicle is re-scanned, and any faults that are still active will be re-displayed.

## The EVENTS Tab

The EVENTS tab displays how many critical and logged events were detected during scanning. Events are classified as either CRITICAL or LOGGED.

### NOTE:

 The EVENTS tab is available only with the CAT® Engines with ACERT™ Technology and Caterpillar® Electronic Engines applications.

From the EVENTS tab you can:

- View critical events
- View logged events
- View more information on both critical and logged events
- Clear logged events

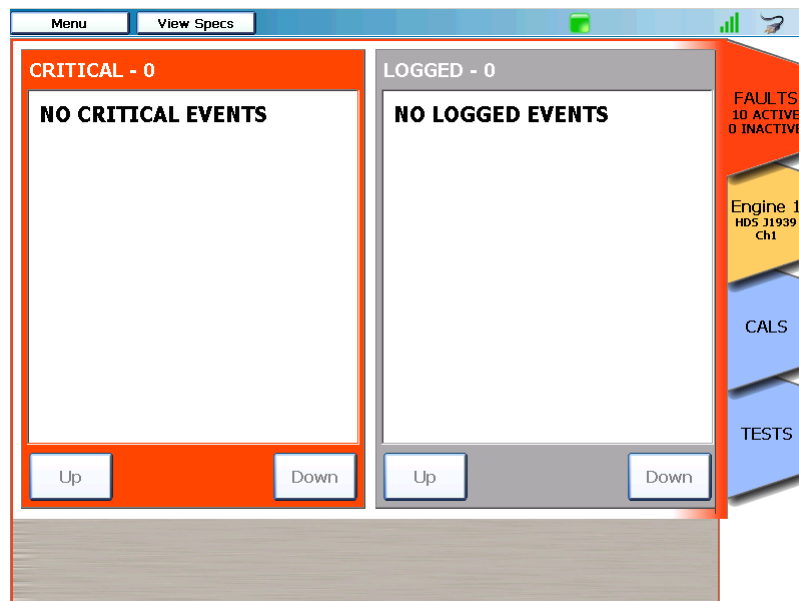



Figure 4.5 EVENTS Tab

### NOTE:

 For detailed information on using the EVENTS tab, refer to the *PRO-LINK® Ultra CAT® Engine with ACERT™ Technology Application User's Guide*.

## The PARAMETERS Tab

The PARAMETERS tab is the yellow tab in the stack of menu-selection tabs.

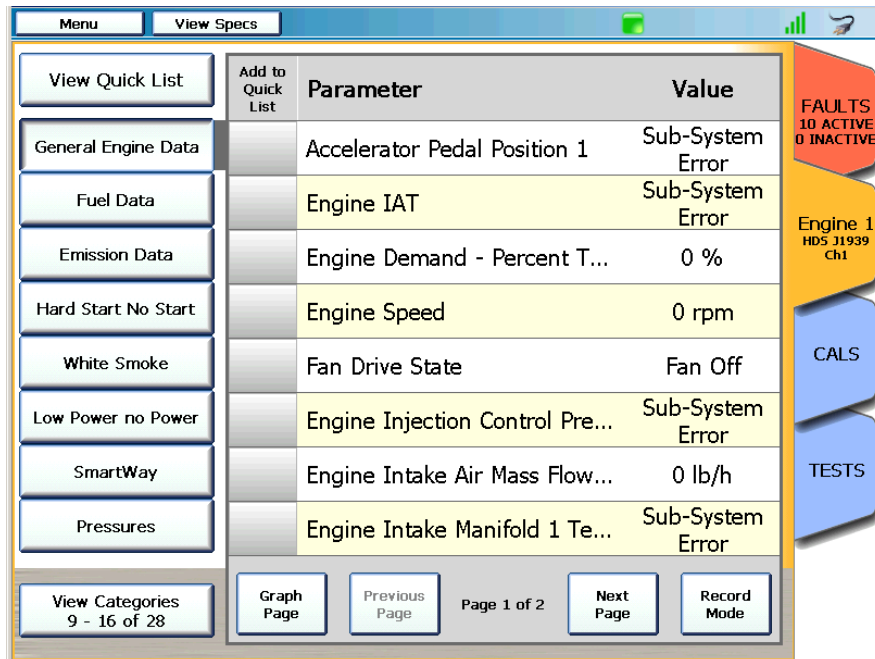


Figure 4.6 Sample PARAMETERS Tab

### NOTE:



The PRO-LINK® Ultra creates a PARAMETERS tab for each module (e.g., **Engine 1 - MaxxForce Ch1** and **Engine Retarder- HDS J1939 Ch1**) loaded during the scanning process.

From the PARAMETERS tab you can:

- View parameters (pg. 67)
- Manage Quick Lists (pg. 69)
- Create and view a Quick List (pg. 70)
- Remove parameters from a Quick List (pg. 75)
- Graph data (pg. 79)

## Viewing Parameters

To view parameters:

- 1 From the Diagnostics Menu (Figure 4.1), select the **PARAMETERS** tab.

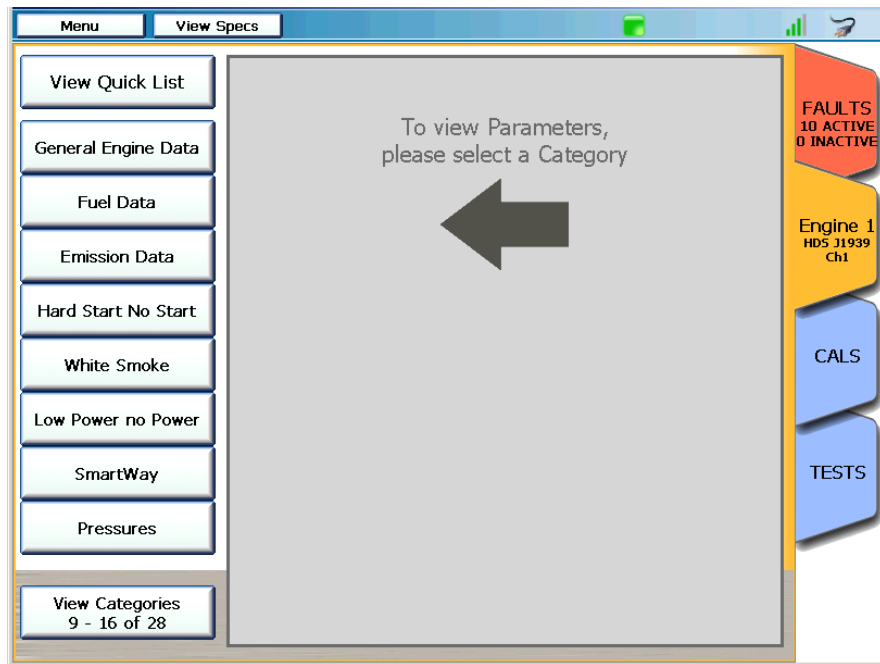


Figure 4.7 Select a Category Screen

### NOTE:



In most cases there will be more categories that will display on one screen. Touch the **View Categories** button at the bottom of the list to display more categories. The button indicates the number of categories available (e.g., **9 - 16 of 28**).

- 2 Touch the name of the parameter category you want to view (e.g., **General Engine Data**).

A list of parameters for the selected category is displayed.

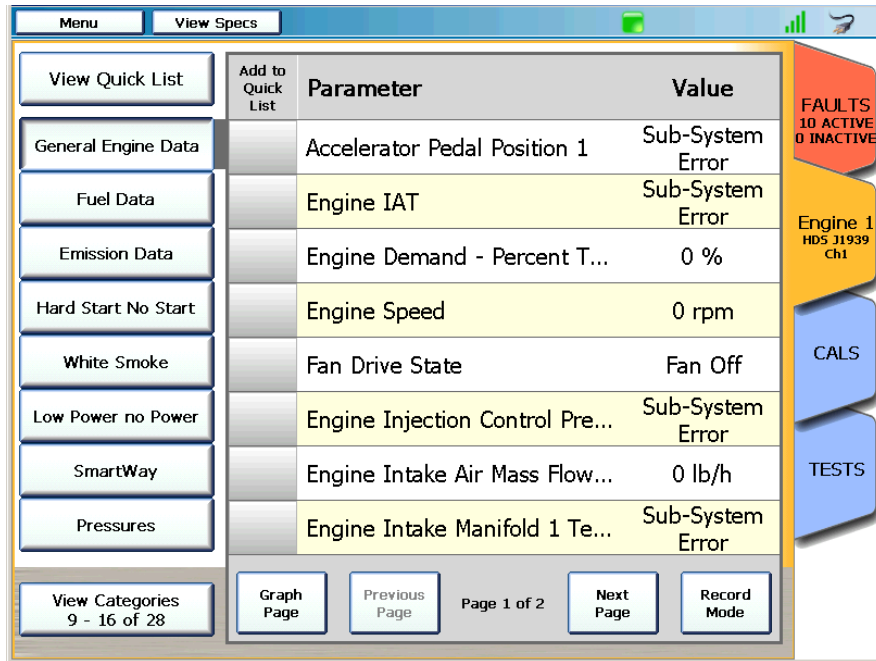


Figure 4.8 List of Parameters

All parameters available for the category you selected (e.g., General Engine) are displayed in the list to the right of the categories. Values, if available, are also displayed.

- 3 Use the **Next Page** and **Previous Page** buttons to move up and down the list of parameters.

**NOTE:**



The **Record Mode** feature is discussed in *Chapter 7: Utilities*, later in this manual.



## Managing Quick Lists

You can create a Quick List to store parameters and display them side by side from either one or both of the following:

- Different categories (i.e., the categories on the left side of the display)
- Different modules (e.g., Engine 1 - HDS J1939, Engine Retarder, etc.)

The Quick List is limited to eight (8) parameters.

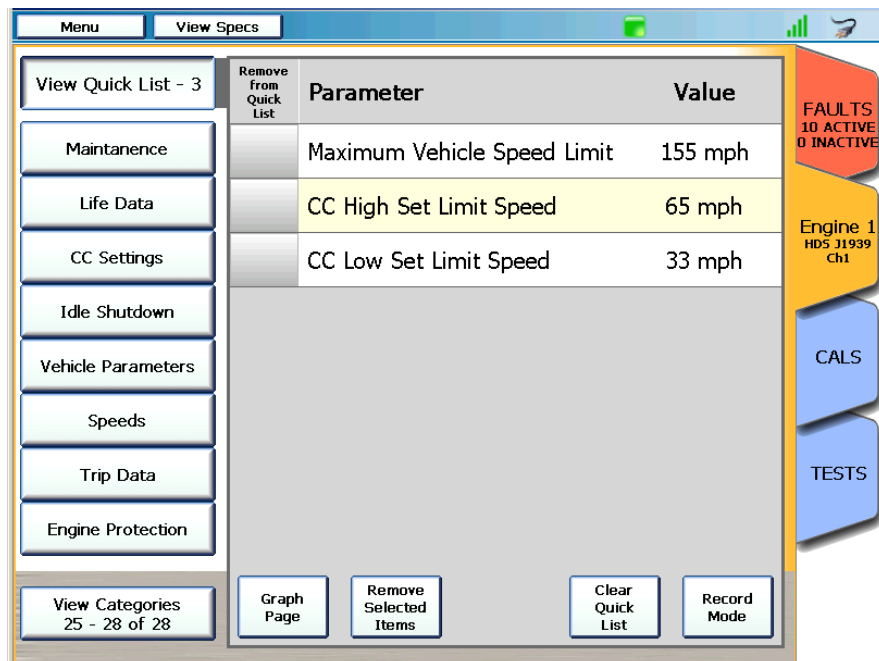


Figure 4.9 Sample Quick List

### NOTE:



There can be only one Quick List. You may, however, clear the Quick List and create a new one when you need to compare other parameters.

## Creating and Viewing a Quick List

A Quick List is created by checking individual parameters from one or more categories in the list of parameters. If no parameters are yet in the Quick List, the PRO-LINK® Ultra displays a screen explaining how to add parameters to the Quick List.

To create a Quick List:

- 1 Touch the **View Quick List** button at the top left of the screen.

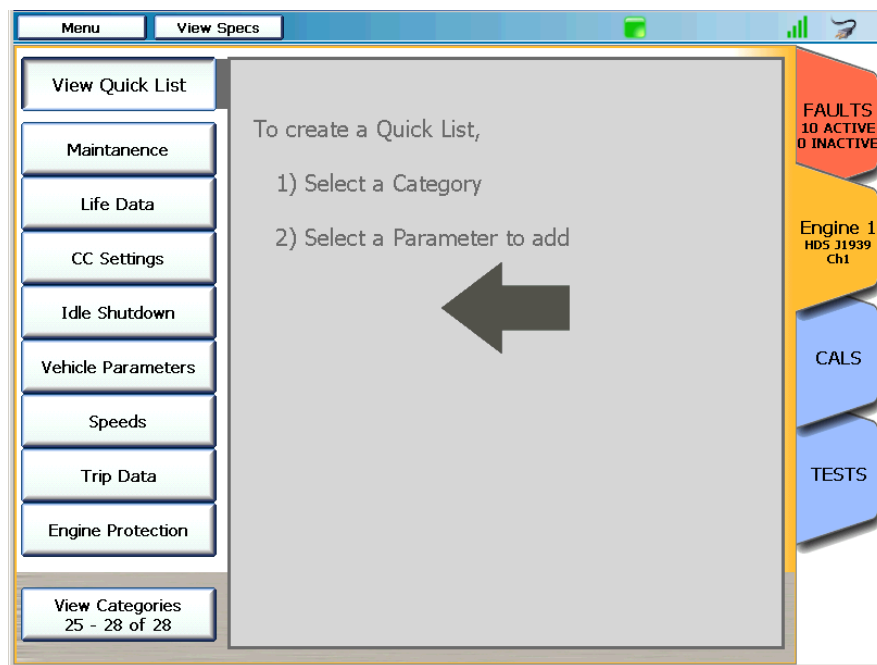


Figure 4.10 Create a Quick List Screen

- 2 Touch the screen to select a category (e.g., **Speeds**).

A list of parameters for the selected category is displayed.

Parameter	Value
CC High Set Limit Speed	65 mph
CC Low Set Limit Speed	33 mph
CC Set Speed	0 mph
Engine Speed	0 rpm
Engine Speed At Idle, Point 1	700 rpm
Maximum Vehicle Speed Limit	155 mph
Engine Percent Load At Curr...	Sub-System Error
Power Takeoff Set Speed	700 rpm

**View Quick List**  
 Maintenance  
 Life Data  
 CC Settings  
 Idle Shutdown  
 Vehicle Parameters  
**Speeds**  
 Trip Data  
 Engine Protection

Add to Quick List  
 View Categories 25 - 28 of 28  
 Graph Page  
 Previous Page  
 Page 1 of 2  
 Next Page  
 Record Mode

FAULTS  
 10 ACTIVE  
 0 INACTIVE  
 Engine 1  
 HD5 J1939  
 Ch1  
 CALS  
 TESTS

Figure 4.11 Parameter List for Speeds Category

- 3 Touch the **Next Page** button to navigate down the list.

Page 2 of the list of parameters is displayed.

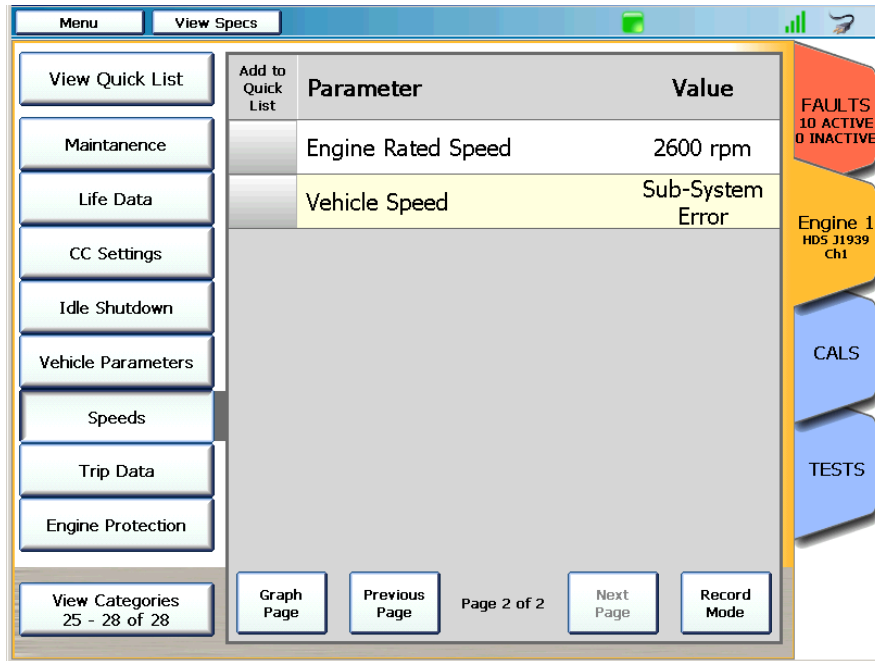


Figure 4.12 Page 2 of Parameter List

- Select a parameter (e.g., **Engine Rated Speed**) by touching within the Add to Quick List column next to the parameter name you want to add.

**NOTE:**



You may also select parameters from other categories (e.g., **Engine Protection**) or from other modules, if present.

A red check mark indicates that the parameter has been added to the Quick List.

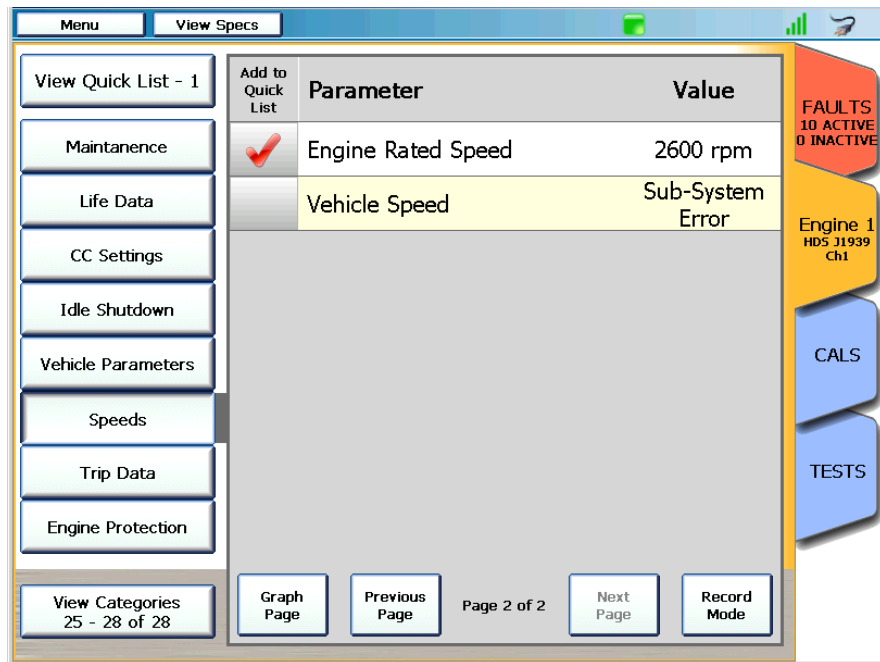


Figure 4.13 A Parameter Selected

The View Quick List button at the top left of the screen displays the number of parameters currently in the Quick List (e.g., **View Quick List - 1**).

- Continue adding parameters to the list.

**NOTE:**



The Quick List is limited to eight (8) parameters.

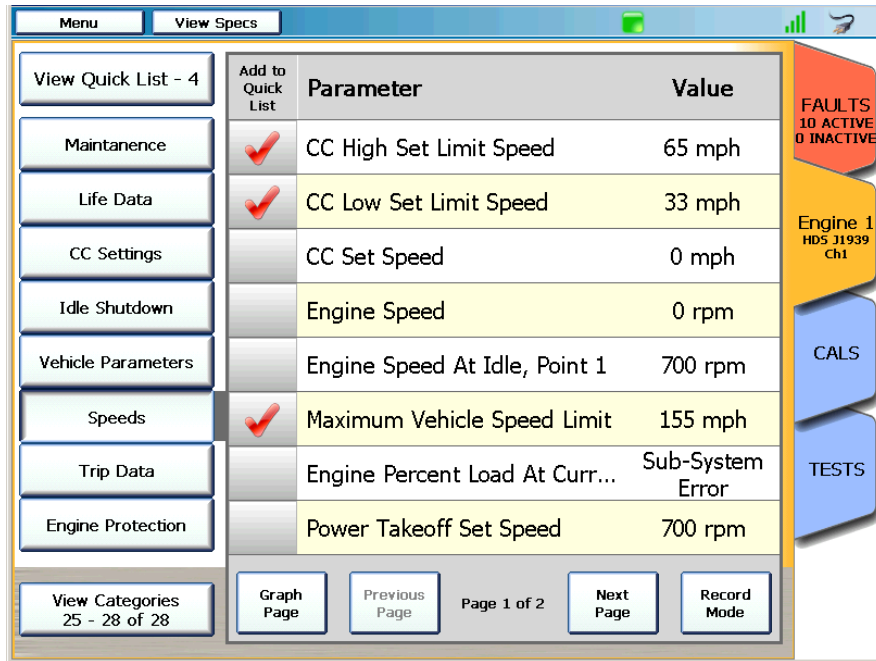


Figure 4.14 Additional Parameters Added

- To view the Quick List you just created, touch the **View Quick List** button at the top left of the screen.

The **Quick List** is displayed.

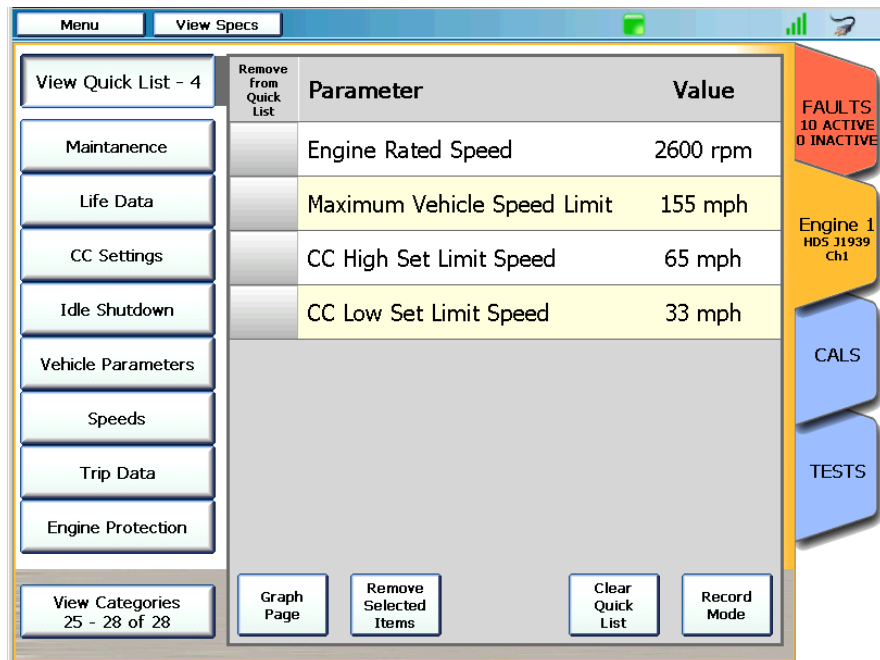


Figure 4.15 Quick List

## Removing Parameters from the Quick List

You can remove parameters from the Quick List at any time.

To remove a parameter from the Quick List:

- 1 Touch the **View Quick List** button to display the current Quick List.

The **Quick List** is displayed.

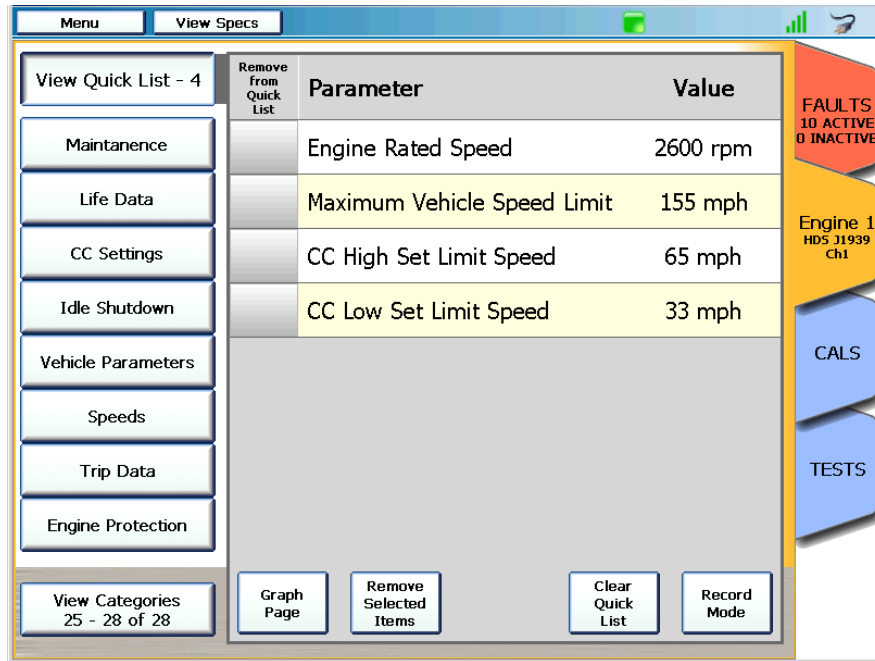


Figure 4.16 Quick List

- 2 Select one or more parameters to remove from the Quick List by touching within the **Remove from Quick List** column next to the parameter name you want to remove (e.g., Engine Rated Speed).



A red check mark is displayed to the left of the parameter to indicate your intention to remove it from the Quick List.

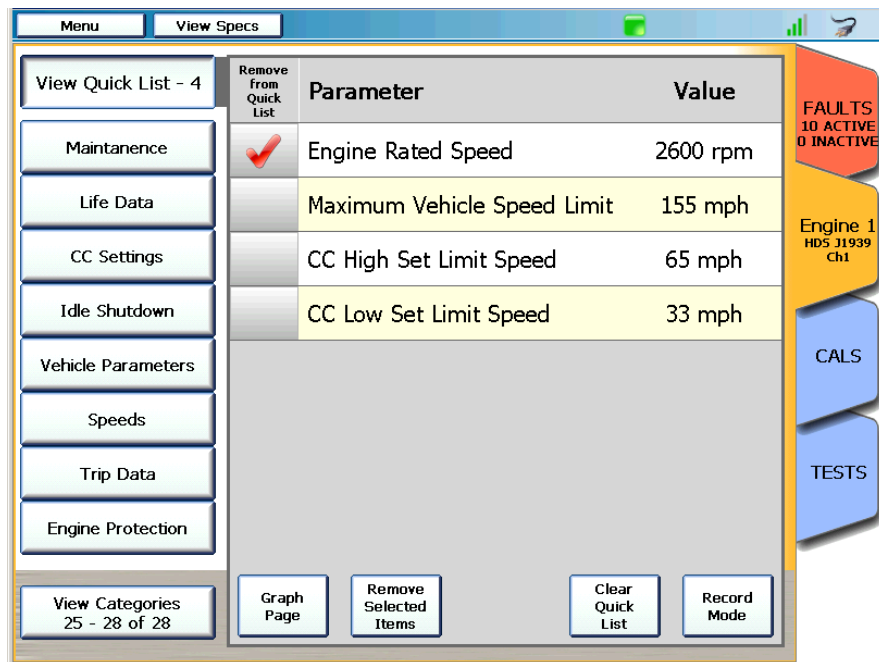


Figure 4.17 Removing Parameters from the Quick List

- 3 Touch the **Remove Selected Items** button.

The **Quick List** is updated.

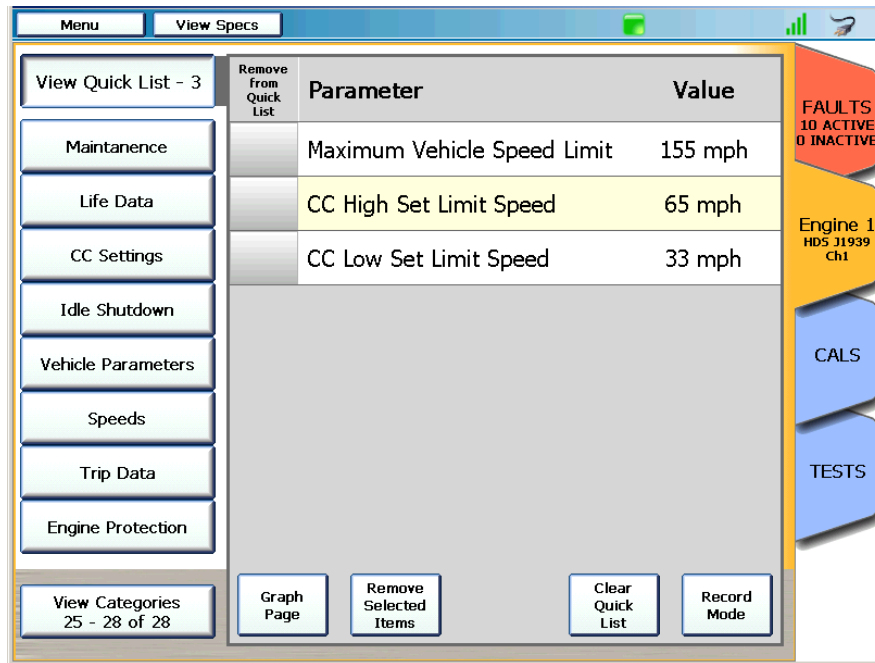


Figure 4.18 Updated Quick List

- 4 To remove all parameters from the Quick List, touch the **Clear Quick List** button.


The **Create a Quick List** screen is displayed again (Figure 4.10).

## Graphing Data

You can view a visual representation (i.e., a graph) of the parameters displayed on a page by using the Graph Page button. Only scalable parameters (i.e., parameters that have values that can vary over time) will be displayed, for example, temperatures.

In addition, you can create a graph from various parameter categories by first creating a Quick List, and then viewing the graph by touching the Graph Page button located at the bottom of the screen (Figure 4.18).

### NOTE:

 Like the Quick List, the graphing feature is limited to eight (8) parameters.

To view a graph of the parameters listed on a page:

- 1 Start at the list of available parameters for a selected category (e.g., **Temperature**).

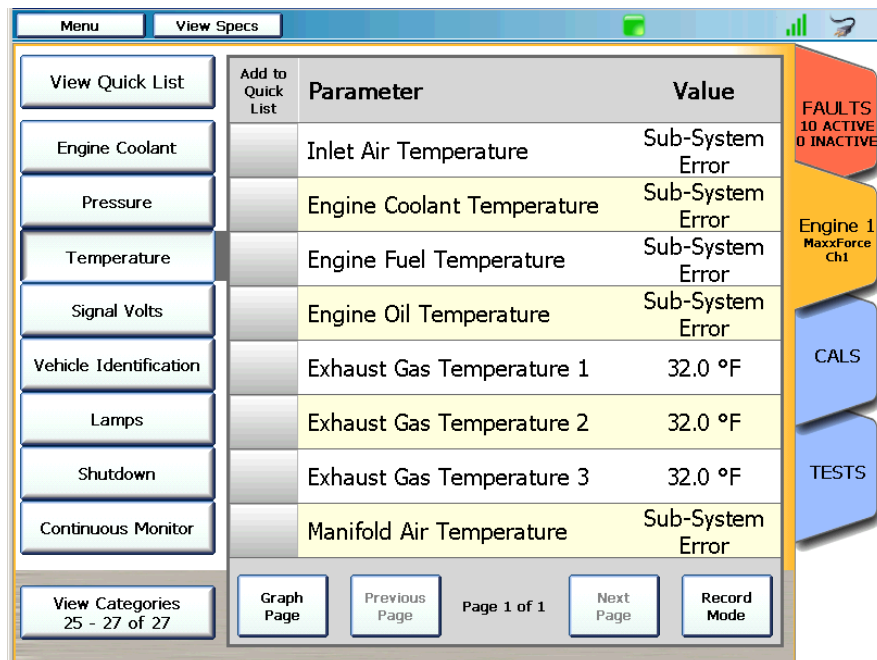


Figure 4.19 List of Parameters

- 2 If the list is composed of multiple pages, select the page you would like to graph.

- 3 Touch the **Graph Page** button at the bottom of the screen.



Figure 4.20 Sample Graph


- 4 Touch the green **Back Arrow** to return to the list of parameters (Figure 4.19).

To create a graph using the Quick List:

- 1 Create a Quick List of up to eight parameters that you would like to view as a graph.

You can add parameters to the Quick List from different parameter categories.

**NOTE:**

 For detailed instructions on creating a Quick List, refer to *Creating and Viewing a Quick List* on page 70, earlier in this manual.

- 2 When your Quick List is complete, touch the **Graph Page** button at the bottom of the Quick List.  
Your graph is displayed.
- 3 Touch the green **Back Arrow** at the bottom of the graph to return to the Quick List.

## The CALS Tab

From the CALS tab, you can:

- Select a calibration category and view the associated datapoints (pg. 82)
- Calibrate a datapoint (pg. 86)

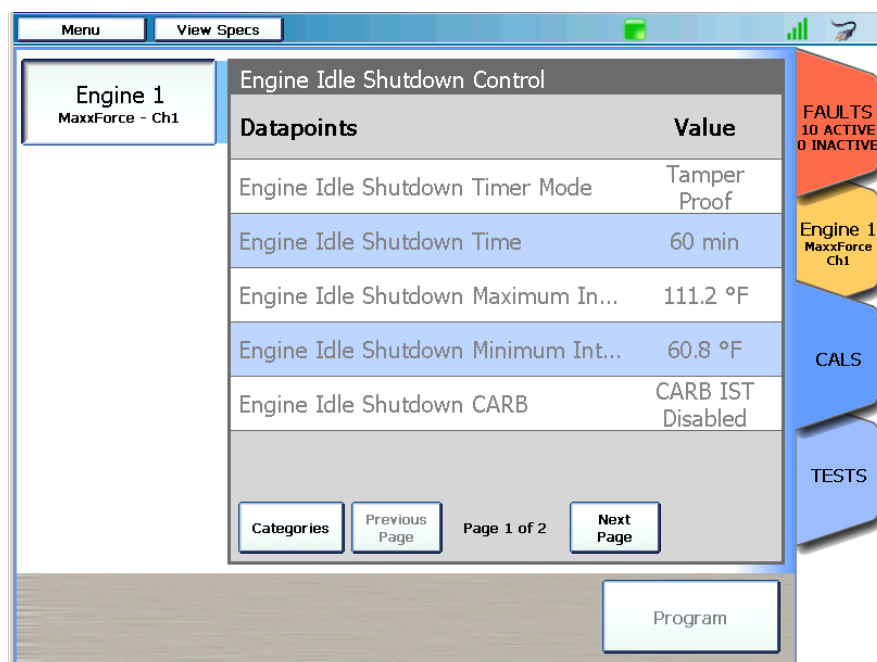


Figure 4.21 CALS Tab

### NOTE:



CALS are not available for all software applications. For example, Heavy Duty Standard (HDS) J1939, among others, does not support calibrations. The CALS tab will still display, but a “no CALS available message” is displayed when the tab is selected.

## Select a Calibration Category

A calibration category is a collection of related calibrations. The first time you select the CALS tab during a session, the PRO-LINK® Ultra prompts you to select a module, and then displays the available calibration categories for that module.

To select a calibration category and view the associated datapoints:

- 1 From the Diagnostics Menu (Figure 4.1), select the CALS tab.

If you have not yet used the CALS tab during your current session, the **Select a Module** screen is displayed.

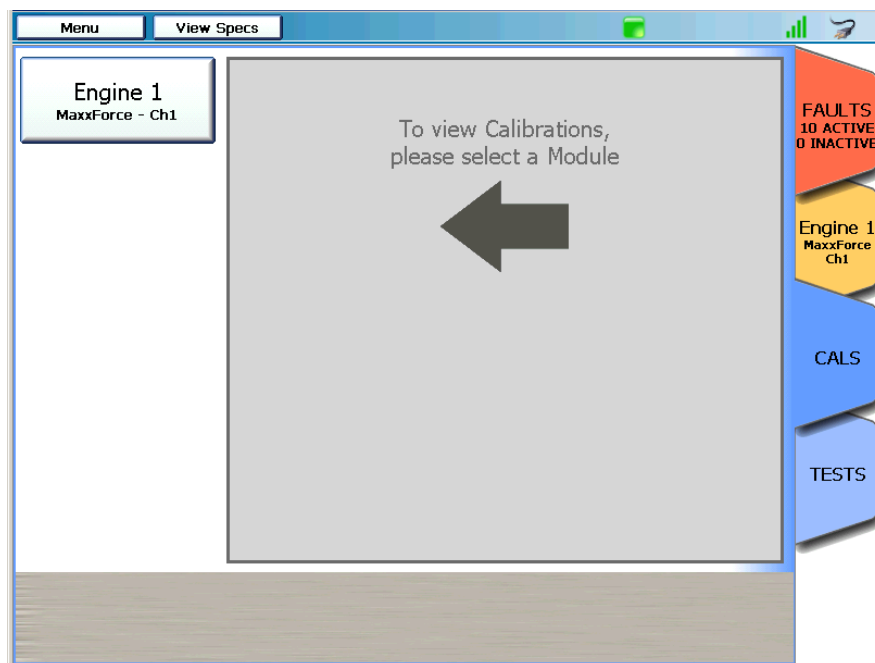


Figure 4.22 Select a Module Screen

Touch the screen to select the module you want (e.g., **Engine 1 - MaxxFORCE - Ch1**).

### NOTE:



If there are more modules that can be displayed in the list on the left side of the screen, the **View Modules** button is displayed in the lower left corner of the screen. Use this button to scroll through all the available modules.

The **Available Categories** screen is displayed.

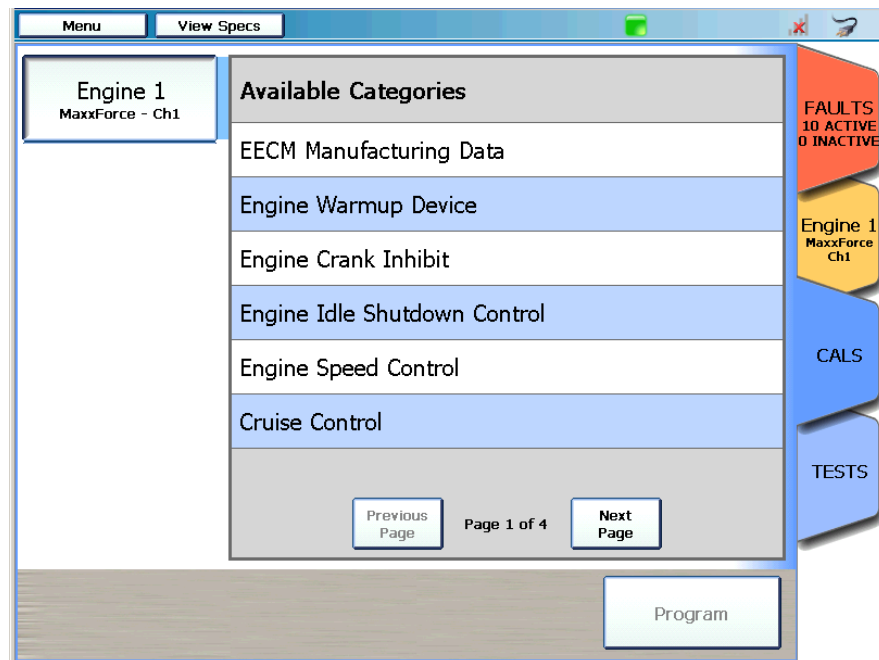


Figure 4.23 Available Categories Screen

- 2 Use the **Next Page** and **Previous Page** buttons to navigate up and down in a multi-page list.
- 3 Touch the screen to select the category you want (e.g., **Engine Idle Shutdown Control**).

The PRO-LINK® Ultra displays a list of the datapoints you can calibrate for the selected category. The list is composed of two columns:

- Datapoints
- Value

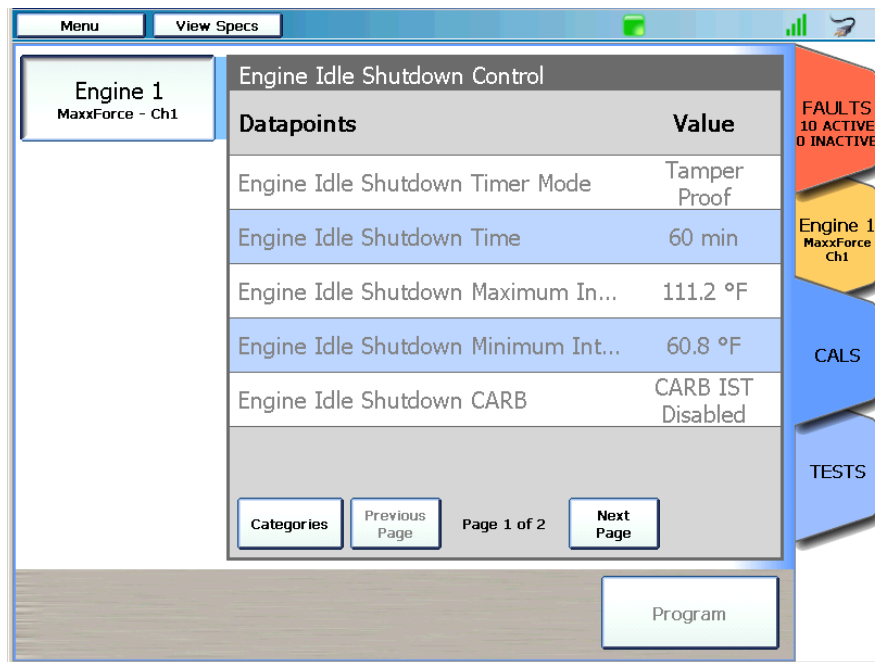


Figure 4.24 List of Datapoints within a Category

The Datapoints column displays a descriptive name for the calibration. The Value column displays the current value, and will change to reflect any changes made during the calibration process.

- 4 Use the **Next Page** and **Previous Page** buttons at the bottom of the screen to navigate through the list.
- 5 Touch and hold a datapoint to display its full description (e.g., **Engine Idle Shutdown Maximum In...**).



A pop-up is displayed with the full description.

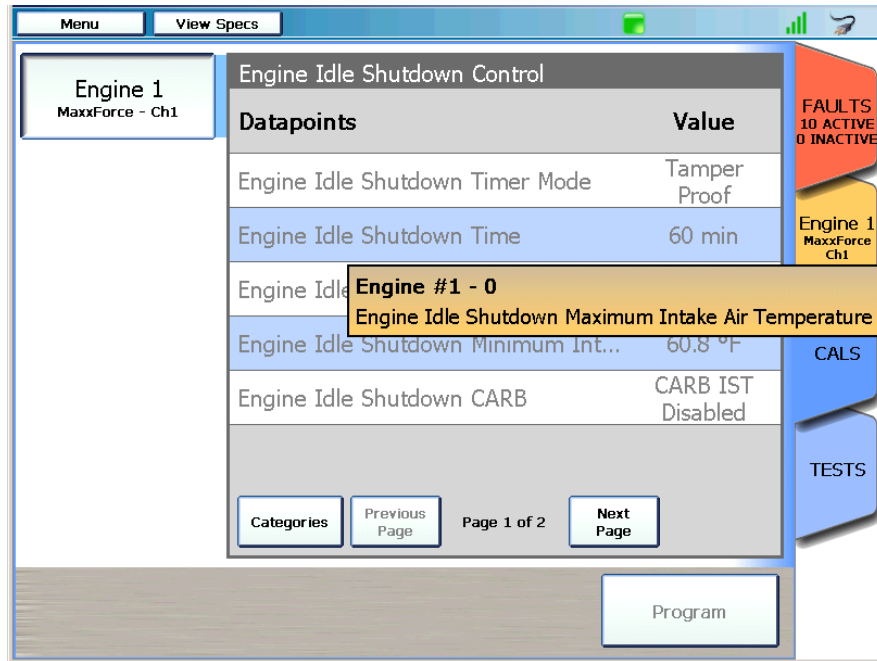


Figure 4.25 Dapoint with Pop-Up Description


This feature can be helpful if the datapoint description is too long to fit on the screen.

- 6 Touch the **Categories** button to return to the Available Categories screen (Figure 4.23).

## Calibrating a Datapoint

When you select a datapoint to calibrate the PRO-LINK® Ultra immediately starts the calibration process for that datapoint.

**NOTE:**

-  Each calibration screen is unique to the type of module and the type of calibration being performed. In addition, some applications (e.g., CAT® ACERT™) do not include the Program button.

To calibrate a datapoint:

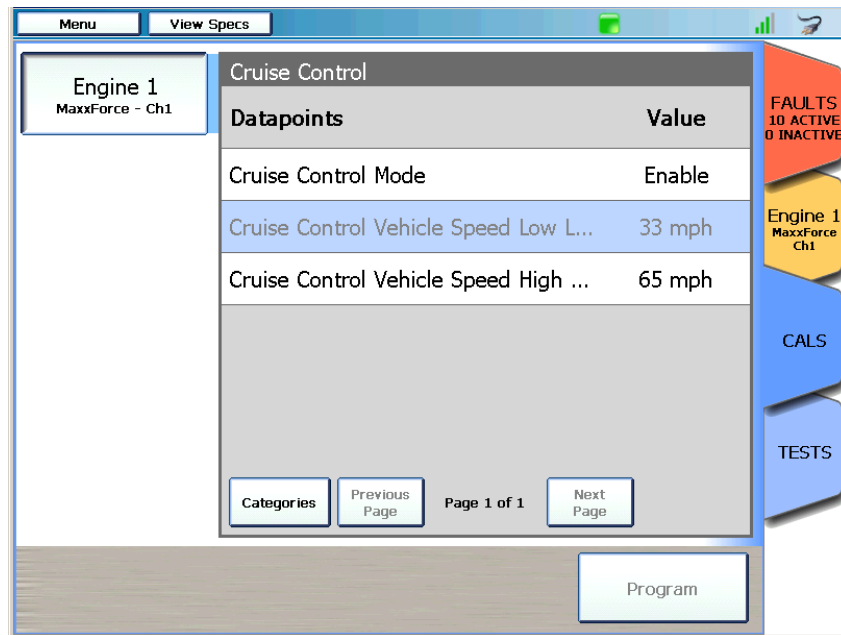



Figure 4.26 List of Datapoints for the Cruise Control Category

- 1 Touch the screen to select the datapoint you want to calibrate (e.g., **Cruise Control Vehicle Speed High...**).

**NOTE:**

-  Not all datapoints will be available for calibration (i.e., they are grayed out). Datapoints can be unavailable because the datapoint is read-only (i.e., non programmable), or, in some applications, due to password level protections.

The calibration screen for the datapoint you selected is displayed.

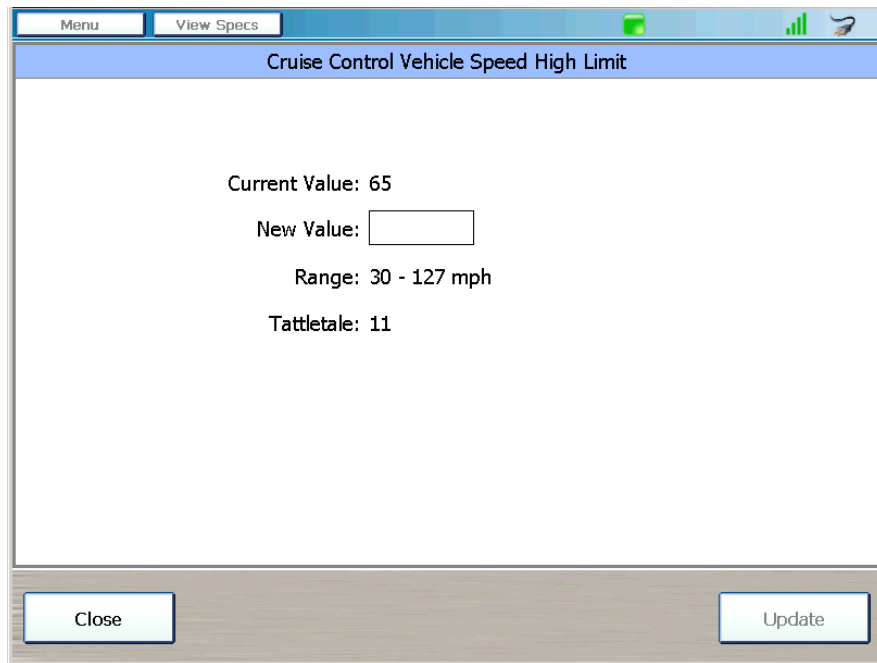


Figure 4.27 Calibration Screen

- 2 Touch within the **New Value** data entry field.

**NOTE:**



---

When a calibration is running, the CALS tab is locked. Touch the Close button to exit the calibration.

---

The keyboard is displayed.

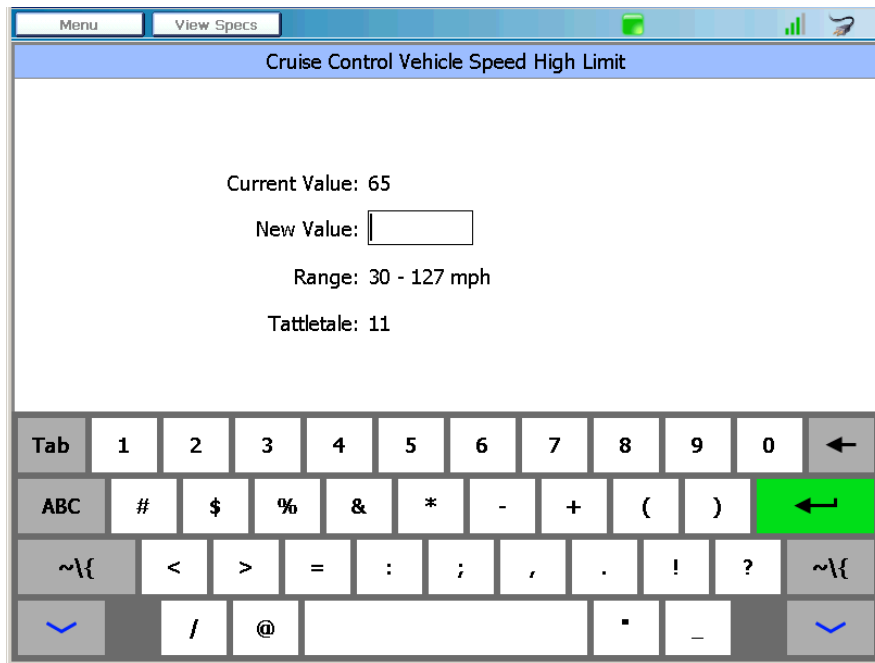



Figure 4.28 Keyboard

- 3 Use the keyboard to enter the new value (e.g., 70).
- 4 Touch the **Down Arrow**  on the keyboard to hide the keyboard.

The screen is displayed without the keyboard.

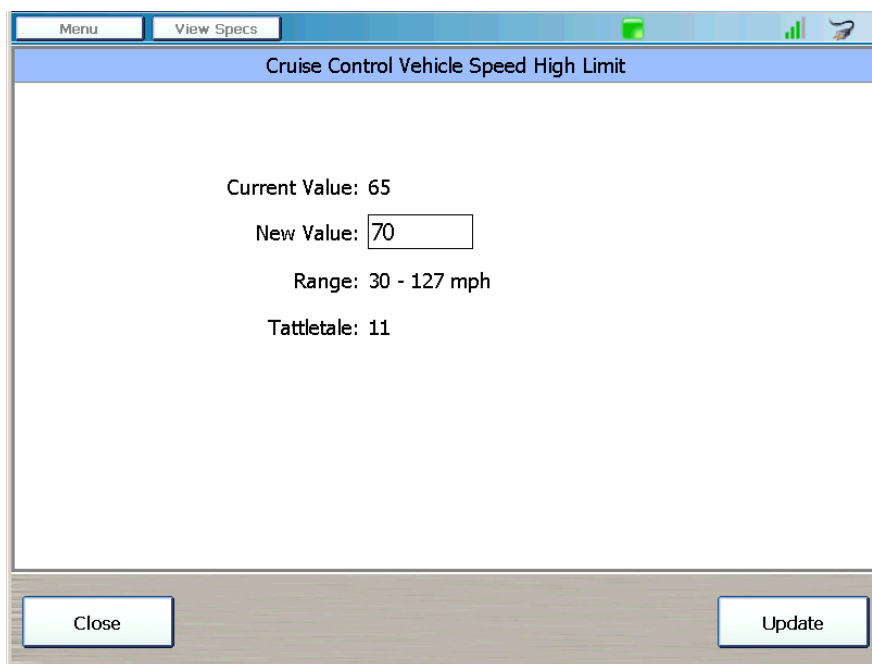


Figure 4.29 Calibration Screen with New Value Entered

- 5 Touch the **Update** button at the bottom of the screen.

The list of datapoints is displayed, showing the new value.

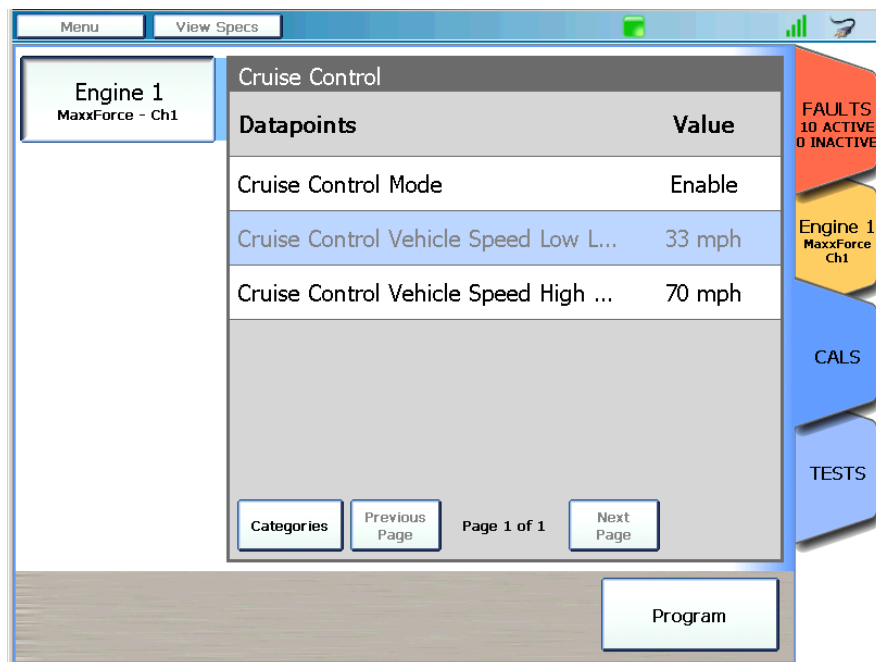



Figure 4.30 List of Datapoints for the Cruise Control Category

- To complete the calibration and accept the new value, touch the **Program** button at the bottom of the screen.

If you choose *not* to program the calibration at this time, you can continue to make additional calibrations, and then program all of your calibrations at the same time. If you attempt to leave the CALS tab, a Question box is displayed reminding you that there are unprogrammed calibrations and warning you that they will be lost if you continue.

**NOTE:**

 In the event that you are prompted to enter a password or passwords, follow the prompts. The PRO-LINK® Ultra in most cases will automatically enter the password, if required, for you.

If you touched **Program**, the final step in the calibration process begins.

- When prompted, turn **OFF** the ignition.
- When prompted, turn **ON** the ignition.

9 Wait while the calibration is verified.

The list of datapoints is displayed again.

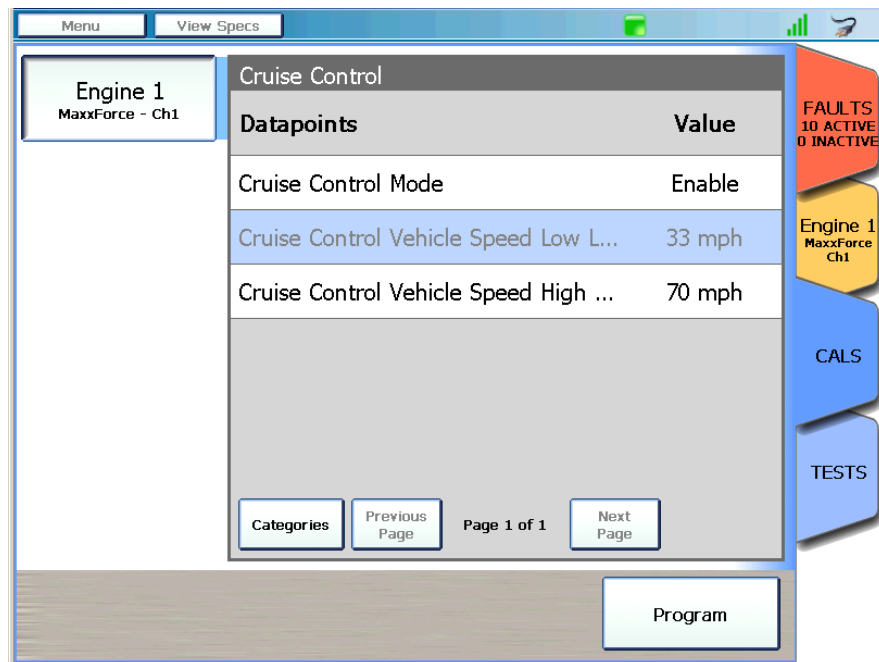


Figure 4.31 List of Datapoints for the Cruise Control Category

10 Do one of the following:

- Continue to calibrate other datapoints.
- Touch the **Categories** button to return to the Available Categories screen (Figure 4.23).

## The TESTS Tab

Most tests require you to connect the PRO-LINK® Ultra to a running vehicle. The tests available will differ depending on the module to which you are connected.

From the TEST tab you can:

- View a list of Available Tests (pg. 93)
- Select a test and run it (pg. 96)

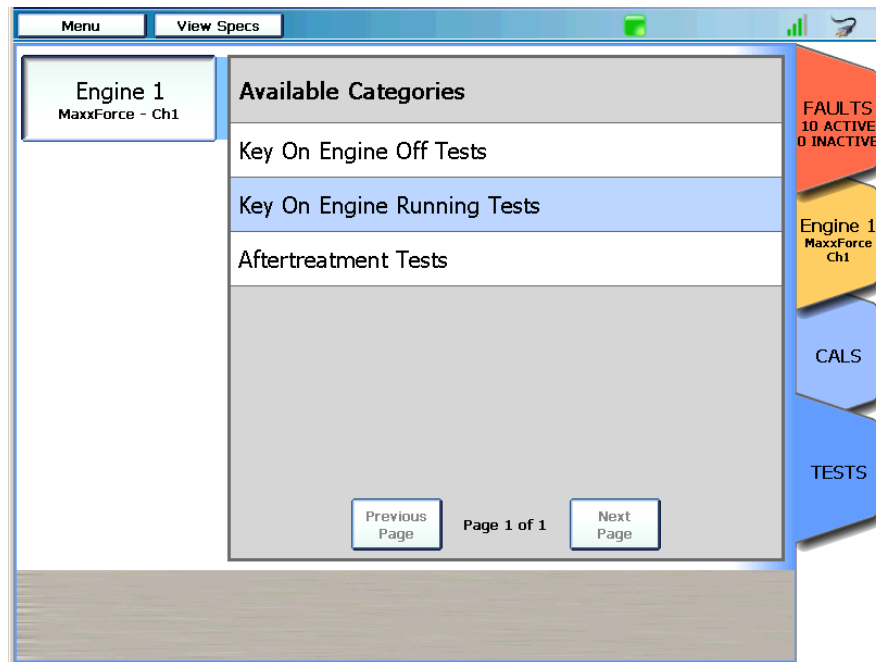


Figure 4.32 TESTS Tab

**NOTE:**




Not all software applications support tests. For example, Heavy Duty Standard (HDS) J1939, among others, does not support tests. The TESTS tab still displays, but a “tests not supported” message is displayed when the tab is selected.



## Viewing a List of Available Tests

The first time you select the TESTS tab during the current session, the PRO-LINK® Ultra prompts you to select a module. If the selected module does not have any special tests associated with it, a message box is displayed.

### NOTE:

 The screen associated with each test is unique to that test. Availability of tests is dependent on both the vehicle concerned and the module loaded.

To view the Available Tests:

- 1 From the Diagnostics Menu (Figure 4.1), select the **TESTS** tab.

If you have not yet used the TESTS tab during your current session, the **Select a Module** screen is displayed.

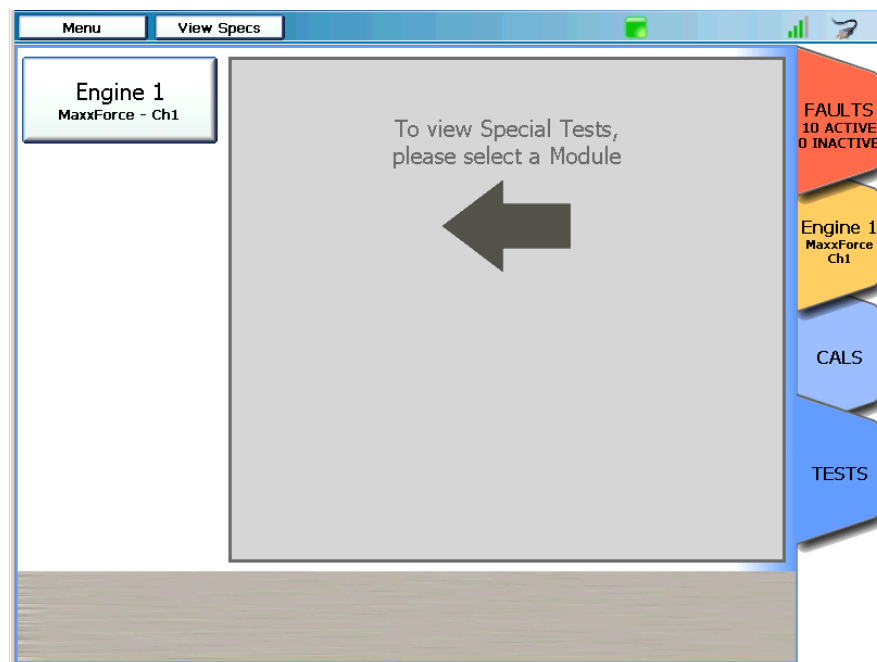


Figure 4.33 Select a Module Screen for Tests

- 2 Select a module from the list on the left (e.g., **Engine 1 - MaxxForce CH1**).

The **Caution** screen is displayed.

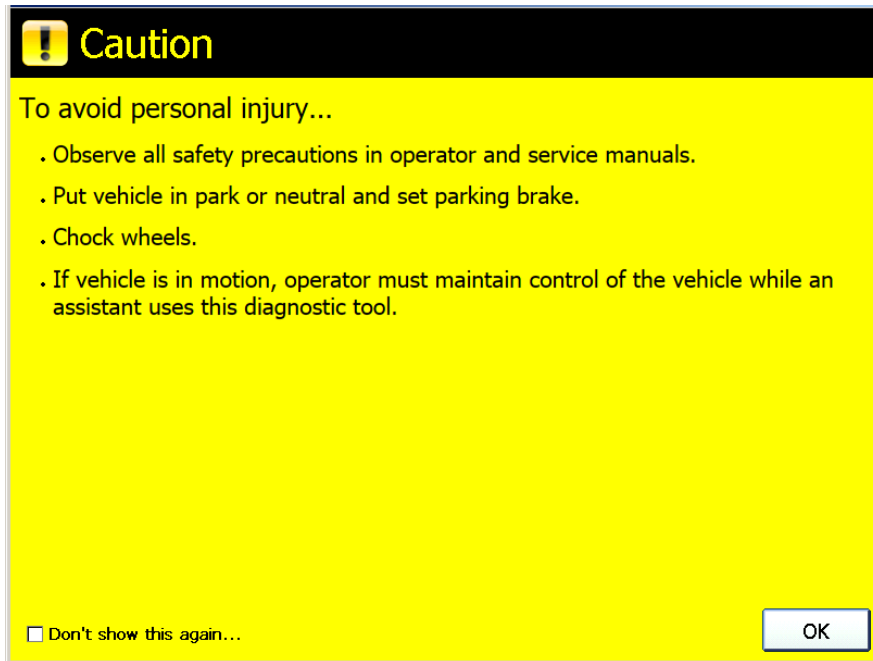


Figure 4.34 Caution Screen

- 3 Carefully read the on-screen instructions and follow them.
- 4 Touch **OK**.

The **Available Categories** screen is displayed.

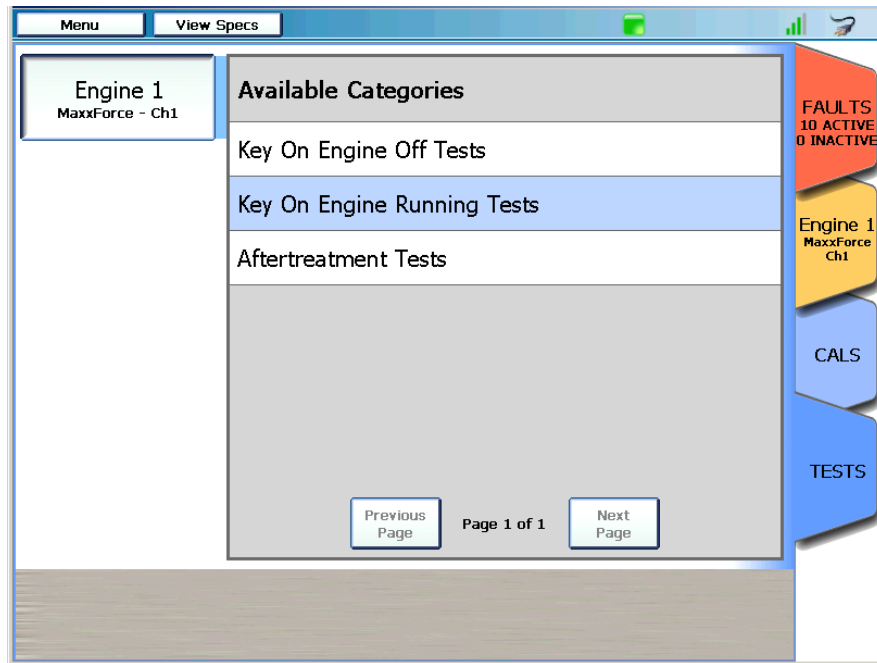


Figure 4.35 Available Categories Screen

- 5 Select a category from the list (e.g., **Key On Engine Running Tests**).

A list of **Available Tests** for the selected category is displayed.

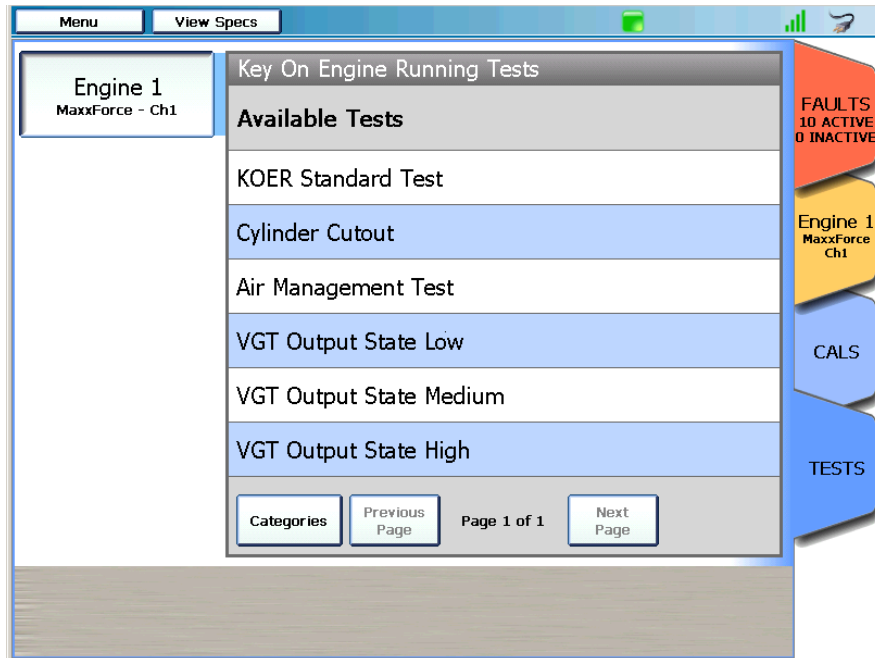


Figure 4.36 KOER Available Tests Screen

- 6 Touch the screen to select a test from the list (e.g., **Cylinder Cutout**).

**NOTE:**



Some tests require the vehicle to be in a particular state (e.g., Engine Coolant Temperature greater than 160.0°). If this is the case for the test you select, the PRO-LINK® Ultra will provide specific prerequisites that must be met before starting the test.

Once you have met the prerequisites for the test, the screen for that test is displayed.

- 7 Touch the **Start** button to begin the test.
- 8 Follow the on-screen prompts and instructions until you reach the end of the test.
- 9 Touch the **Quit** button to end the test.

The list of **Available Tests** for the selected category is displayed.

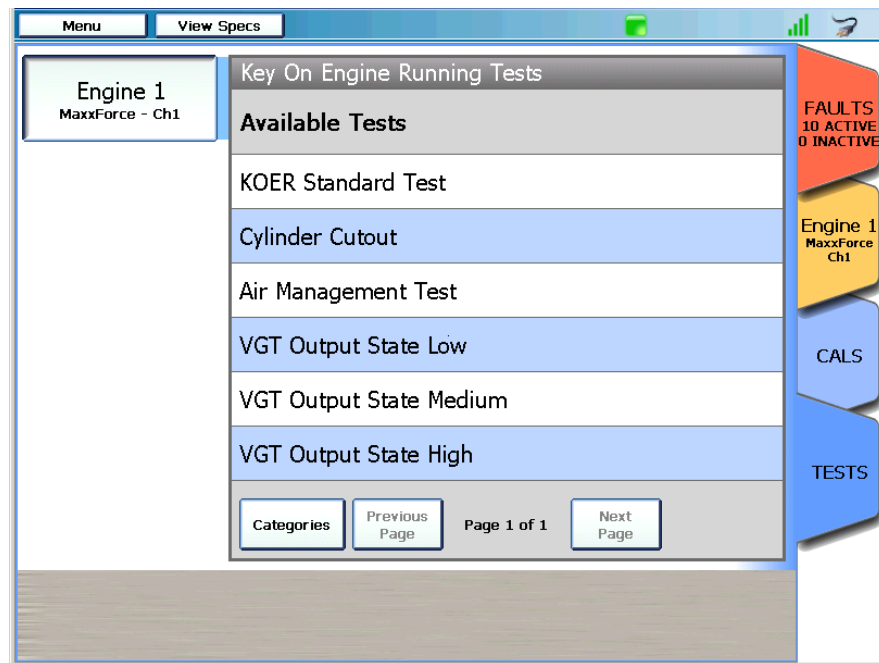


Figure 4.37 KOER Available Tests Screen

- 10 Touch the **Categories** button at the bottom of the screen to display the list of Available Categories (Figure 4.35).

## Using the Features Available on the Menu Button

Several features are available from the Menu button at the top of the Diagnostics Menu.

- Create Report (pg. 98)
- Units (pg. 105)
- End Session (pg. 106)
- About (pg. 108)

## Creating a Report

To create a report:

- 1 Touch the **Menu** button at the top of the screen.

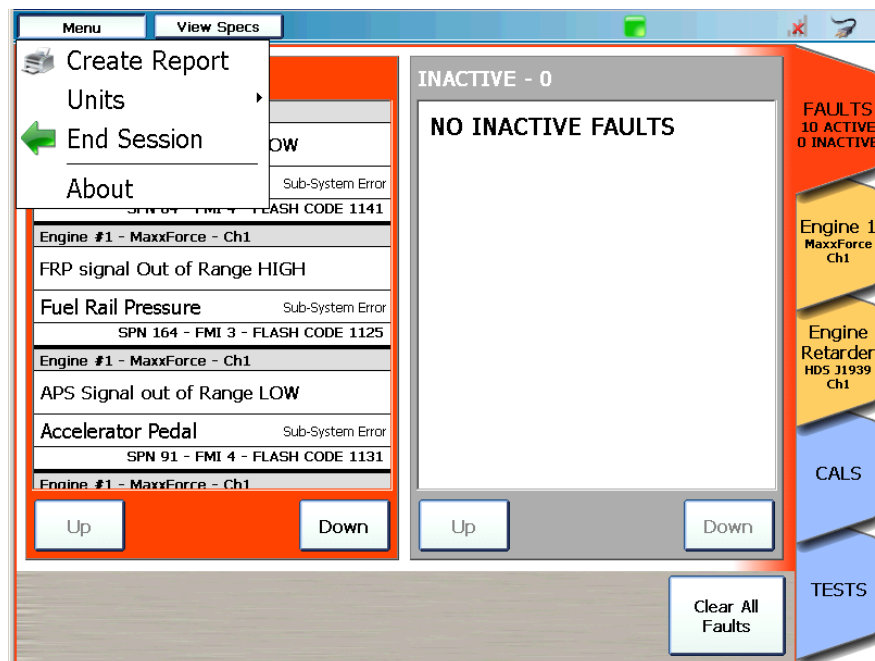


Figure 4.38 Diagnostics Menu

- 2 Select **Create Report**.

The **Information Selection** screen is displayed.

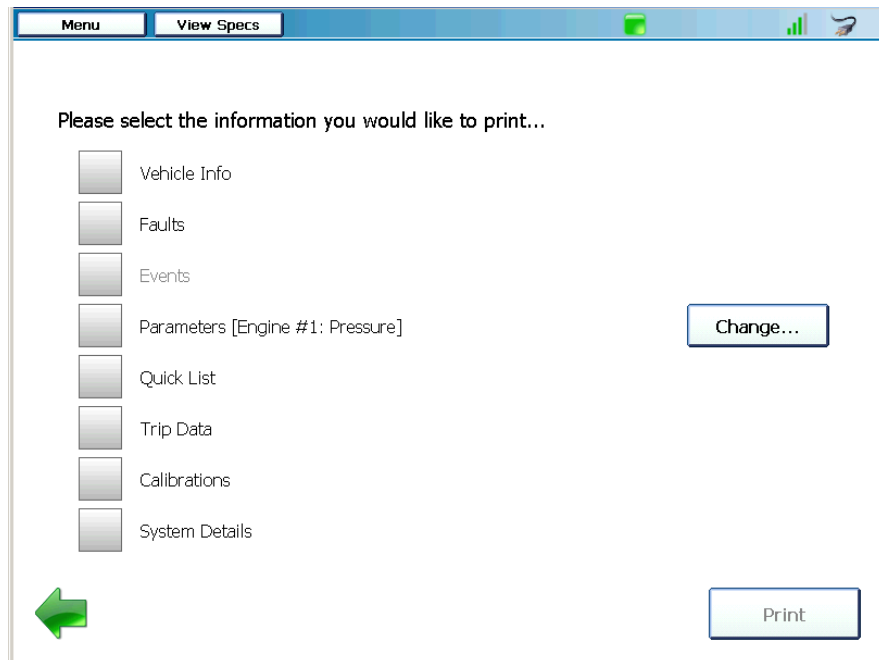


Figure 4.39 Information Selection Screen

- 3 Touch the screen to select the type of information you want to display on your report (e.g., **Vehicle Info**, **Faults**, **System Details**).

Red check marks are displayed next to your selections.

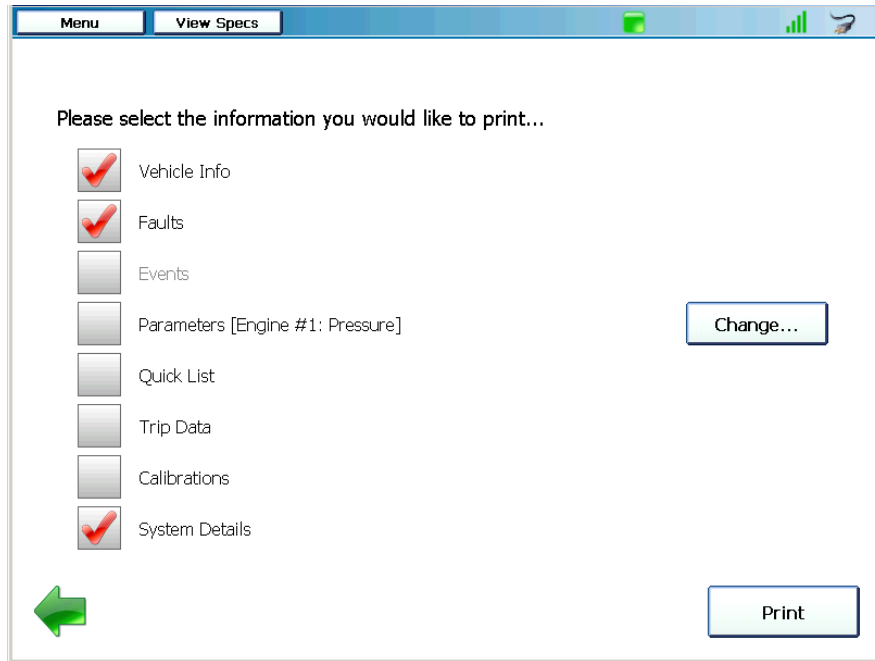


Figure 4.40 Check Marks Indicate Selections Made

- 4 Touch the **Change** button to select a different module or parameter category for the data you want to include.

For example, you want to include different parameters on your report than the parameters for the listed module and category (i.e., **Engine #1: Pressure**).



The following screen is displayed.

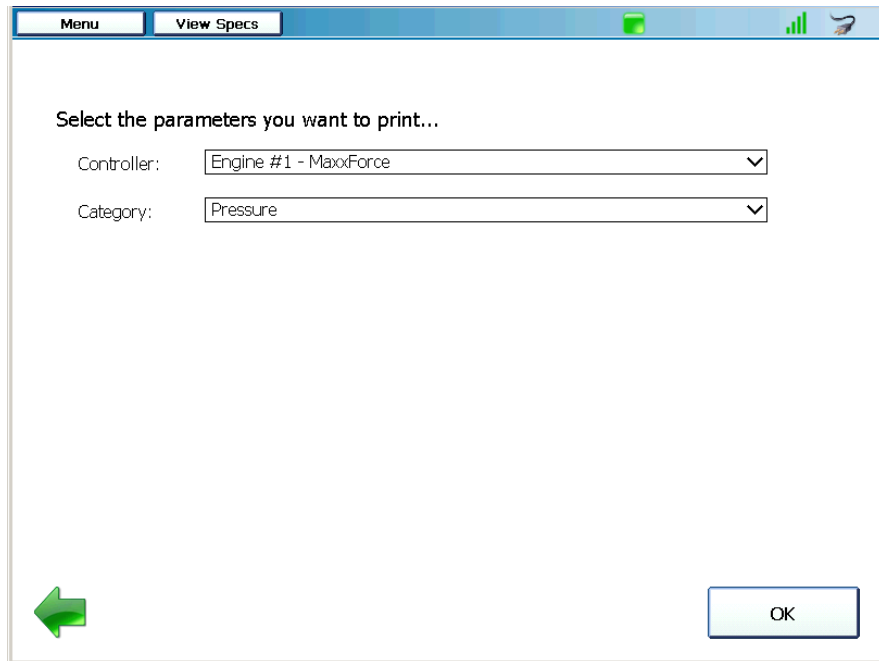


Figure 4.41 Change Selection Screen

- 5 Touch the **Category** drop-down to display a list of available parameter categories for the selected Controller.
- 6 Select a different parameter category from the list (e.g., **Engine Coolant**).
- 7 Touch the **OK** button at the bottom of the screen.

The **Information Selection** screen is displayed again reflecting the change.

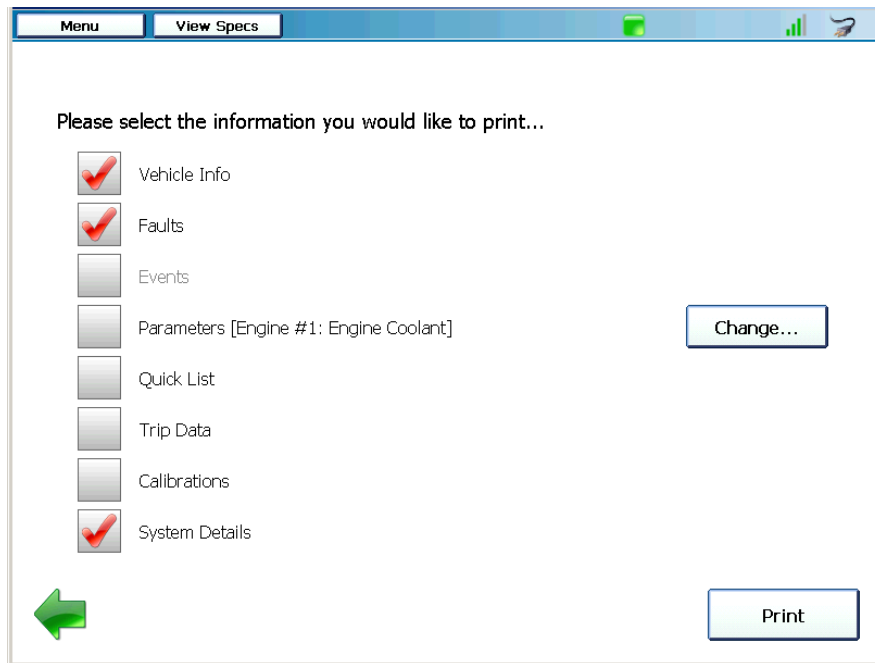


Figure 4.42 Information Selection Screen Updated

- 8 Touch the screen to select the **Parameters** for the category you selected in Step 6 of this procedure.
- 9 Touch the **Print** button.

The **Select Printer** screen is displayed.

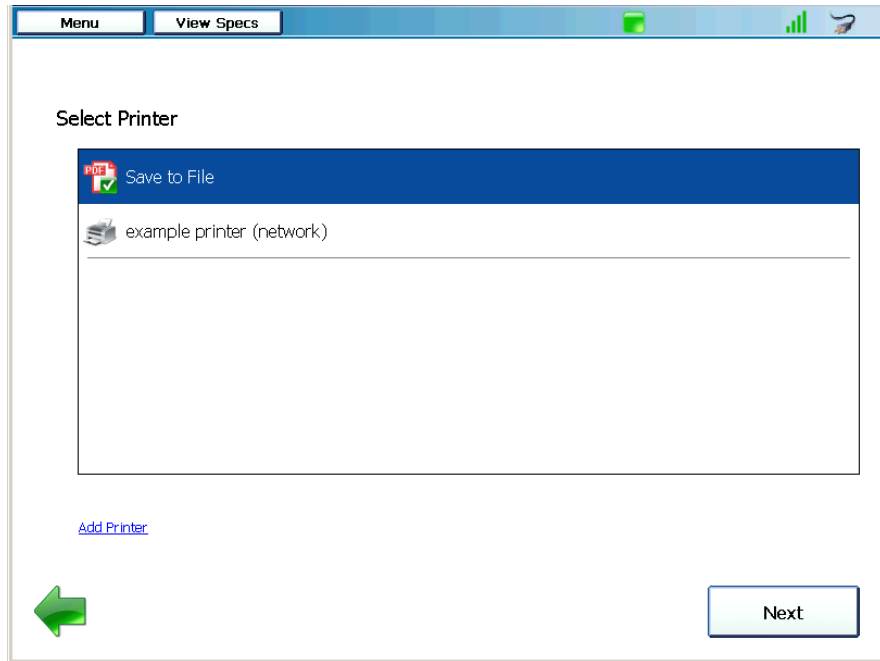



Figure 4.43 Select Printer Screen


- 10 Touch the screen to select the printer installed (e.g., **example printer**).

Your report is sent to the selected printer.

**NOTE:**

-  You can also save the report to a file in portable document format (PDF) for later viewing or printing. Refer to “Managing Saved Reports” in *Chapter 5: Using the Admin Menu*, later in this manual.

**NOTE:**

-  For instructions on using the Add Printer button, refer to “Managing Printers” in *Chapter 5: Using the Admin Menu*, later in this manual.

The following screen is displayed.

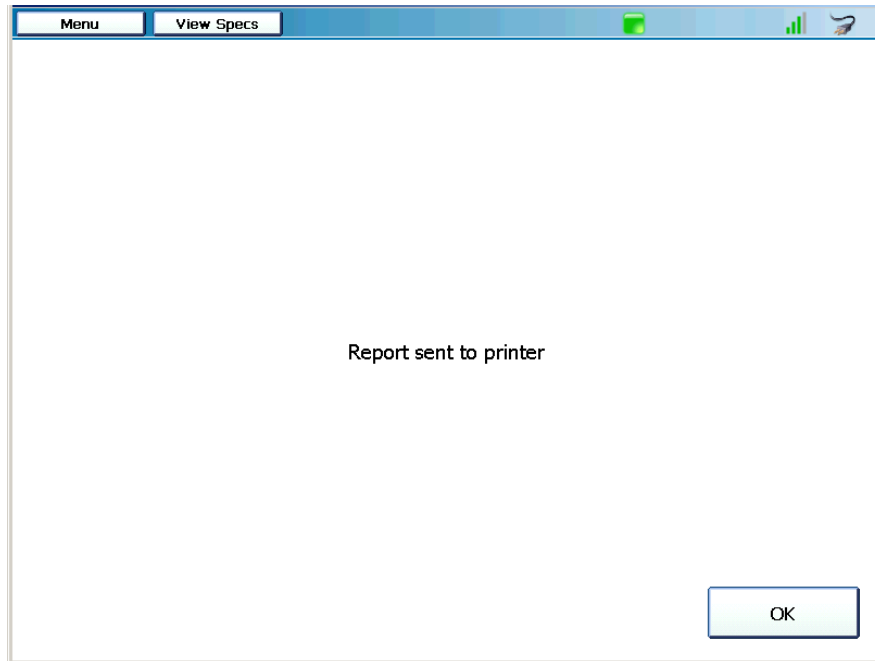


Figure 4.44 Report Sent to Printer Screen

- 11 Touch **OK**.  
The **Select Information** screen is displayed again (Figure 4.42).
- 12 Touch the green **Back Arrow** to return to the Available Categories screen (Figure 4.35).

## Changing Units of Measure

To change units of measure:

- 1 Touch the **Menu** button at the top of the screen.

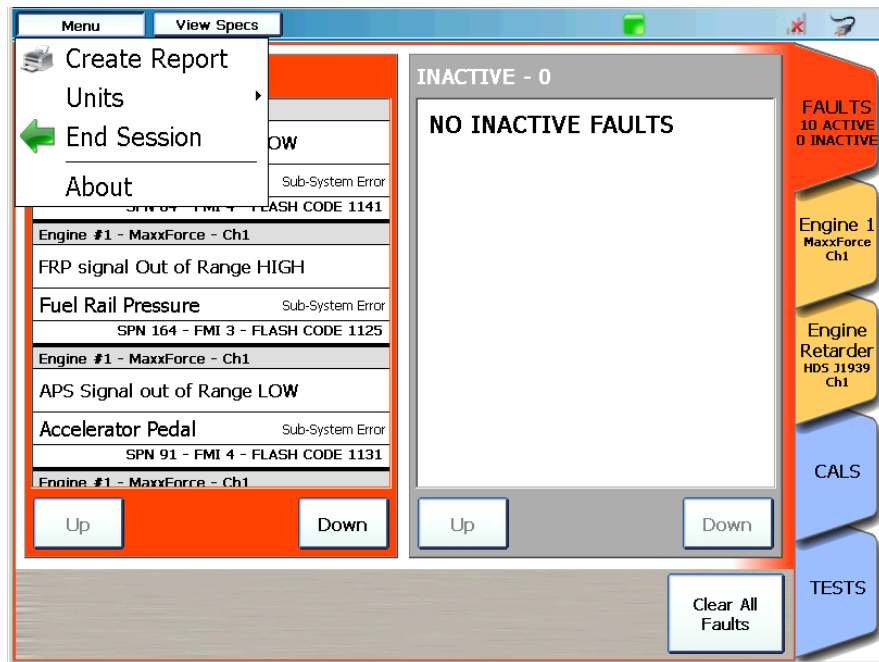


Figure 4.45 Diagnostics Menu

- 2 Select **Units**.

Two options are available:

- English (lbs., mph, °F)
- Metric (kg, kph, °C)

- 3 Select the unit of measure you want PRO-LINK® Ultra to use.

The **Menu** closes.

## Ending Your Diagnostics Session

To end your diagnostics session and disconnect from the vehicle, you use the Menu button at the top of the screen.

To end your diagnostics session:

- 1 Touch the **Menu** button at the top of the screen.

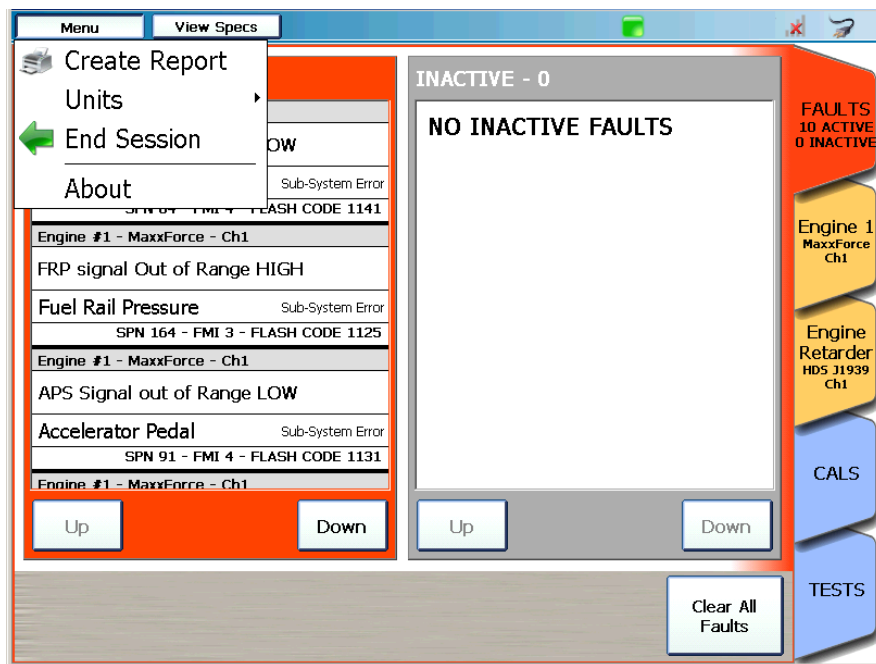


Figure 4.46 Diagnostics Menu

- 2 Select **End Session**.

The **Main Menu** is displayed.



Figure 4.47 Main Menu

From this menu you can:

- Scan again and start another diagnostic session (see “Scanning a Vehicle” in *Chapter 3: Getting Started*, of this manual).
- Play a recording (see Chapter 7 of this manual).
- Navigate to the Admin menu (see Chapter 5 of this manual)
- Power down the PRO-LINK® Ultra
- Navigate to Demo Mode

**NOTE:**



---

To power down the PRO-LINK® Ultra, press and hold the power button on the tool. Touch the screen to make sure that you have powered down all the way and not just entered Standby Mode.

---

## About PRO-LINK Ultra

To view information about PRO-LINK Ultra:

- 1 Touch the **Menu** button at the top of the screen.

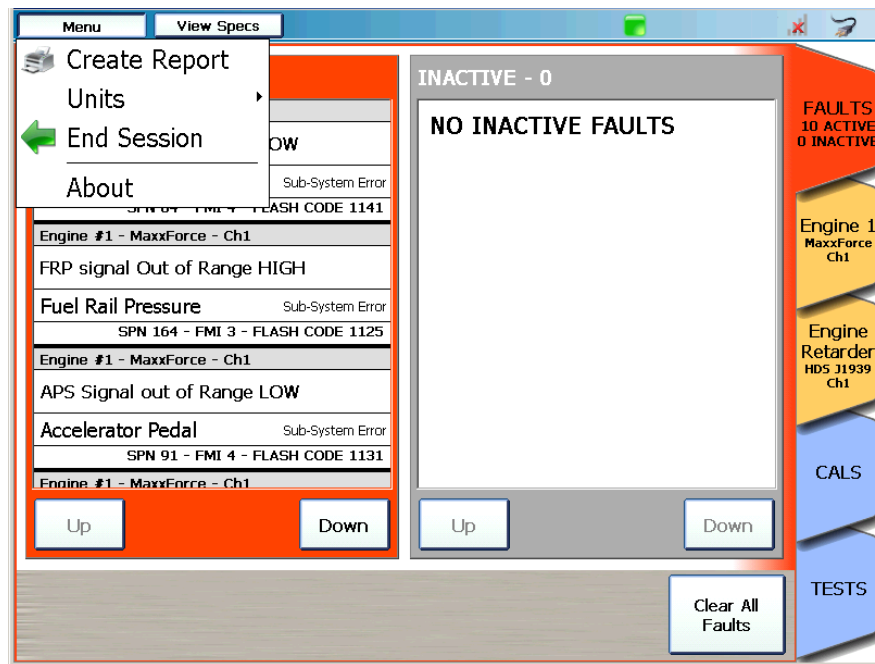


Figure 4.48 Diagnostics Menu

- 2 Select **About**.



The **About** information box is displayed.

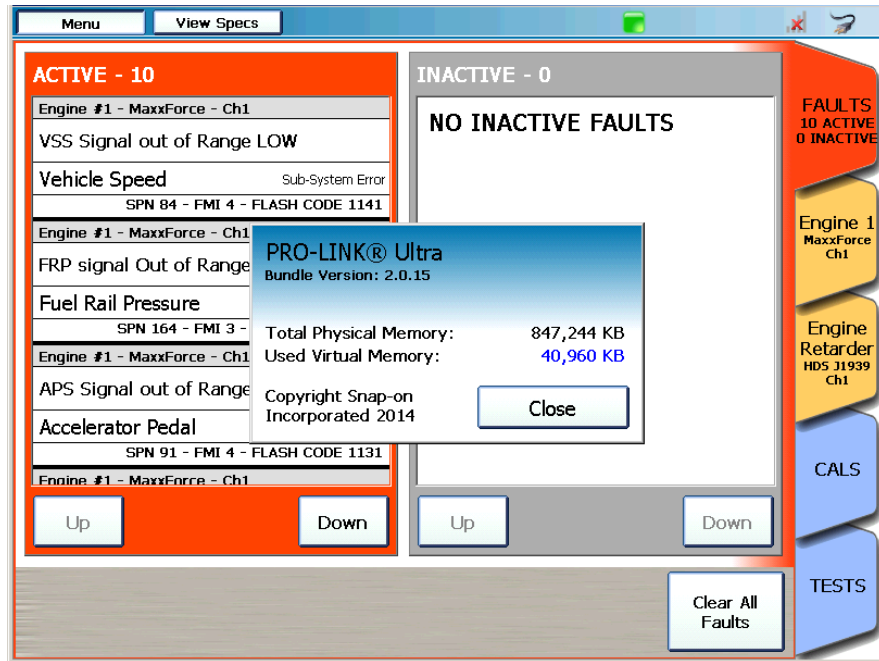


Figure 4.49 About Information Box

- 3 Touch **OK** to close the information box.

## Viewing Vehicle Specifications

To view vehicle specifications:

- 1 Touch the **View Specs** button at the top of the screen.

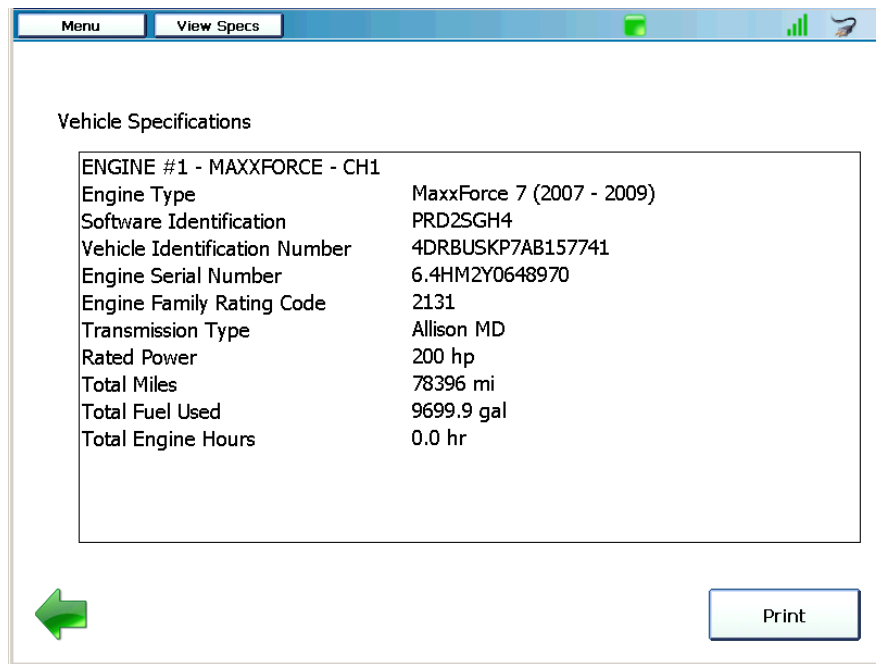


Figure 4.50 Vehicle Specifications

- 2 (optional) Once you have finished viewing the information, touch the **Print** button to send the information to a printer.
- 3 Touch the green **Back Arrow** at the bottom of the screen to return to the Diagnostics Menu (Figure 4.1).

# Chapter 5

## Using the Admin Menu



- ▼ *Introduction to the Admin Menu, page 112*
- ▼ *Registering Your Software Applications, page 114*
- ▼ *Installing Updates, page 127*
- ▼ *Installing Applications, page 130*
- ▼ *Viewing System Details, page 134*
- ▼ *Configuring the Device, page 136*
- ▼ *Uninstalling Applications, page 160*
- ▼ *Managing Saved Reports, page 161*
- ▼ *Managing Your User Account, page 170*
- ▼ *Enabling Remote Access, page 175*

This chapter provides detailed instructions for using the PRO-LINK® Ultra Admin Menu.

**NOTE:**



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Screen shots used throughout this manual are for illustrative purposes only. All data shown is fictitious in nature.

---

## Introduction to the Admin Menu

The procedures in this chapter assume the following:

- The PRO-LINK® Ultra is not connected to a vehicle.
- You are performing the procedures as a system administrator in a non-shop setting.
- You have previously registered your PRO-LINK® Ultra, and activated your software applications.

**NOTE:**



For more information on registering the PRO-LINK® Ultra, see the *PRO-LINK® Ultra Registration and Software Activation Guide*, available on the CD that was shipped with your device.

The Admin Menu is accessed from the **Main Menu**.

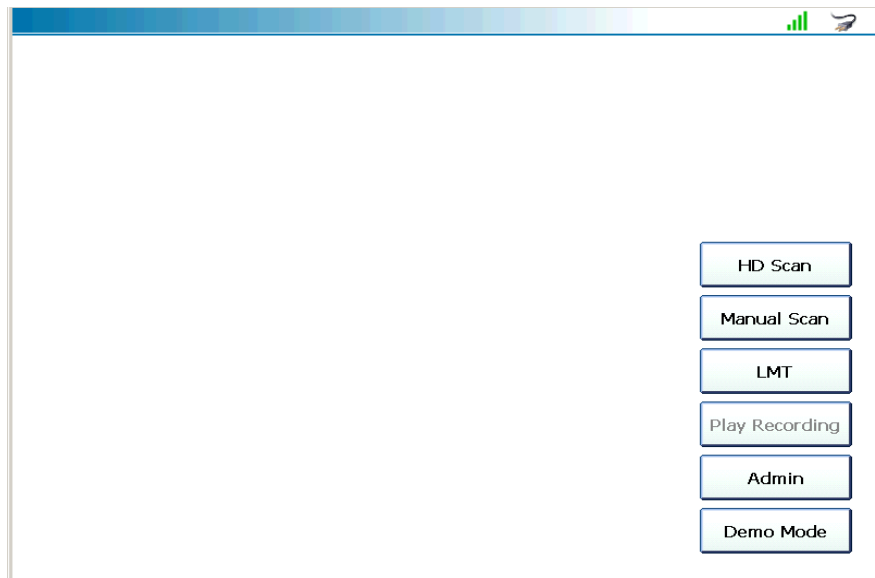


Figure 5.1 Main Menu

**NOTE:**



For an overview of the options available on the Main Menu, see “The Main Menu,” in *Chapter 2: Hardware and User Interface*, earlier in this Manual.

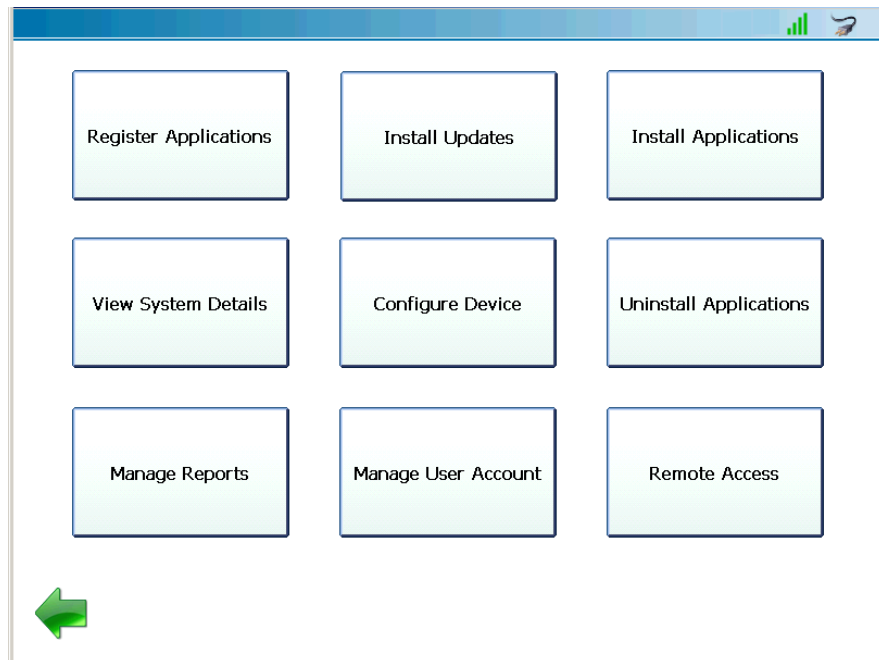


Figure 5.2 Admin Menu

You use the Admin Menu to perform the following administrative tasks:

- Register Applications (pg. 114)
- Install Updates (pg. 127)
- Install Applications (pg. 130)
- View System Details (pg. 134)
- Configure Device (pg. 136)
- Uninstall Applications (pg. 160)
- Manage Reports (pg. 161)
- Manage User Account (pg. 170)
- Remote Access (pg. 175)

**NOTE:**



Touch the green **Back Arrow** at the bottom of the screen to return to the Main Menu (Figure 5.1).

## Registering Your Software Applications

You use the **Register Applications** feature to activate software applications for use on the PRO-LINK® Ultra. There are two options:

- Registering an Application Using PRO-LINK® Ultra (pg. 114)
- Registering an Application Using the Website (pg. 118)

### Registering an Application Using PRO-LINK® Ultra

The following procedure assumes that you have:

- Internet access
- Previously created a User Account and Password
- Previously registered your device

**NOTE:**



---

For detailed instructions on creating a user account and registering your PRO-LINK® Ultra, refer to *PRO-LINK® Ultra Registration and Software Activation Guide*, available on the CD that was shipped with your device.

---

To Register an Application Using PRO-LINK<sup>®</sup> Ultra:

- 1 Navigate to the **Admin Menu**.

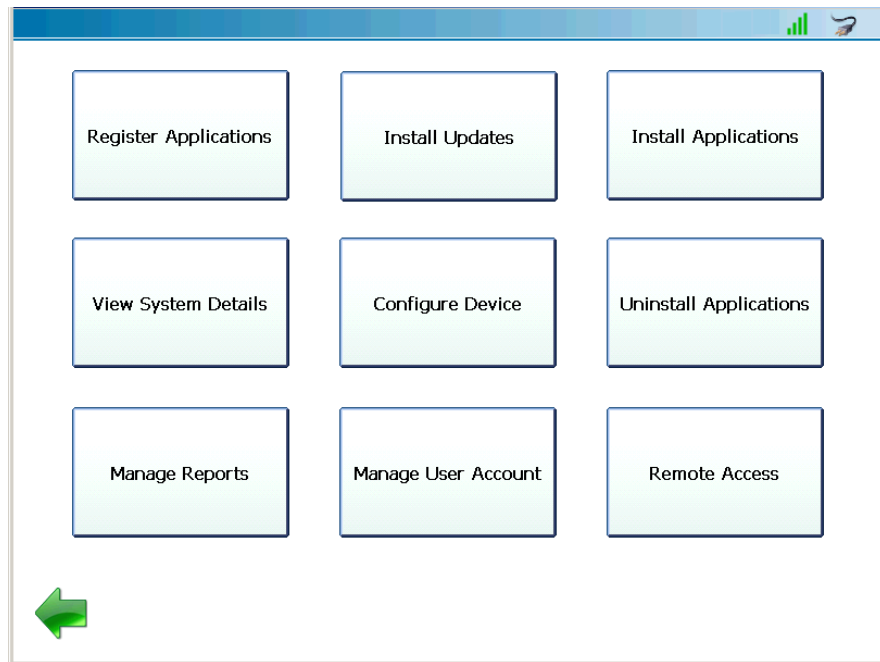


Figure 5.3 Admin Menu

- 2 Select **Register Applications**.

The **Register Application** screen is displayed.

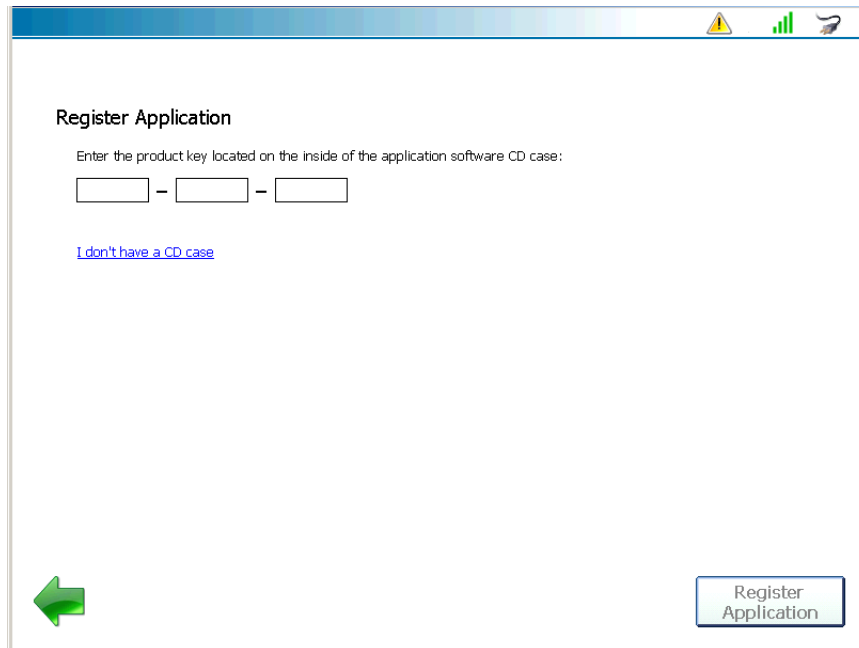


Figure 5.4 Register Application Screen

- 3 Touch within the first data entry field.

The pop-up keyboard is displayed.

- 4 Use the keyboard to enter the **Product Key** for the application you want to register (e.g., Heavy Duty Standard J1939).

**NOTE:**




---

The **Product Key** is printed on a sticker on the inside of the CD case shipped with your device.

---

The Product Key is not case sensitive. You can enter it in all lower-case letters.

- 5 Touch the **Down Arrow**  on the keyboard to hide the keyboard.
- 6 Touch **Register Application**.



PRO-LINK® Ultra checks the Product Family website, verifies the Product Key, and automatically downloads the required **Activation Code**.

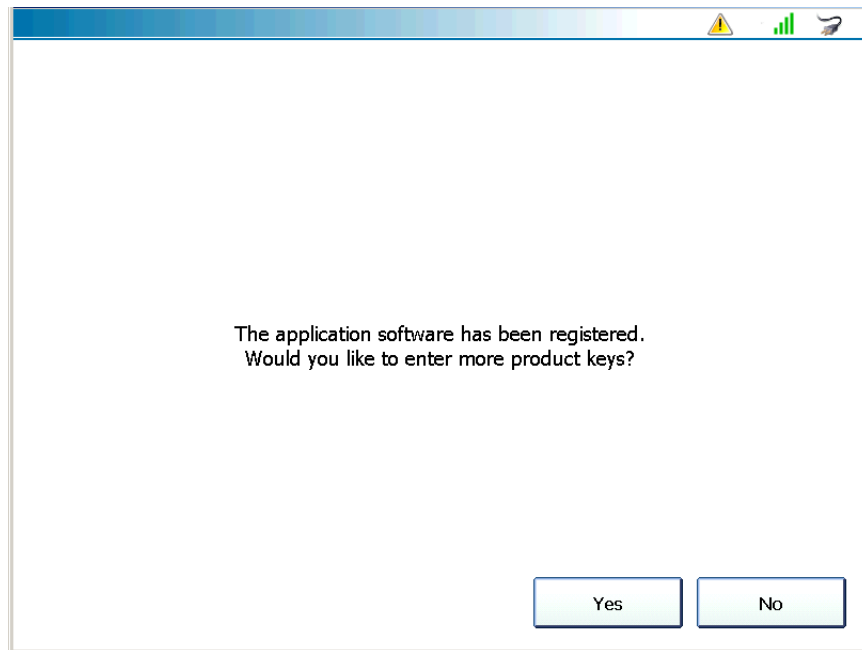



Figure 5.5 Application Registered Message

The **Activation Successful** screen is displayed.

**NOTE:**



You may, or may not, see the **Updates Available** icon  at the top of the screen. This icon indicates that software updates are available.

Click on the icon to go to the Install Updates screen where you can download the updates. You can also wait and perform this task after you have activated your software applications.

7 Do one of the following:

- Touch **Yes** to continue registering more applications.
- Touch **No** to return to the Admin Menu (Figure 5.3).

## Registering an Application Using the Website

The following procedure assumes that you have:

- Internet access
- Previously created a User Account and Password
- Previously registered your PRO-LINK® Ultra

### NOTE:



---

For detailed instructions on creating a user account and registering your PRO-LINK® Ultra, refer to *PRO-LINK® Ultra Registration and Software Activation Guide*, available on the CD that was shipped with your device.

---

There are two options for copying the Activation Codes:

- To a USB memory stick (pg. 118)
- Copying the codes manually (pg. 122)

## Copying Activation Codes to a Memory Stick

You copy the required Activation Code to a USB memory stick, place the memory stick into the USB port on the PRO-LINK® Ultra, and then activate the software.

To copy Activation Codes to a memory stick:

- 1 Visit the iQ™ Product Family website at the following address:  
**prolinkiq.nexiq.com.**

### NOTE:



---

For more information on using the iQ™ Product Family website, see the *iQ™ Companion and iQ™ Product Family Website User's Manual*.

---

- 2 Click **Log In** from the iQ™ Family menu on the left side of the page.
- 3 Enter your **User ID**.
- 4 Enter your **Password**.
- 5 Click the **Login** button, located under the Password field.
- 6 Navigate to the **Device Registration** page.
- 7 Locate the **Registered Devices** section near the bottom of the page.

- 8 Click the **plus sign (+)** for the PRO-LINK® Ultra.

A Product Activation History for the device lists applications by product key, software title, software version, activation code, and activation file.

- 9 Click the link **Add New Software / Product Key** at the bottom of the page.

- 10 Enter the **Software Serial Number** and the **Software Product Key**.

**NOTE:**



---

The **Software Serial Number** and the **Software Product Key** are printed on a sticker on the inside of the CD case shipped with your device.

---

- 11 Click **Activate**.

The application is added to the device's **Product Activation History**, which displays the activation code and the activation file name for each application.

**NOTE:**



---

The activation file name is a link. Clicking this link enables you to save the file to a USB memory stick and then install the file on your PRO-LINK® Ultra.

---

- 12 Click the application file name link.

A **File Download** dialog box is displayed.

- 13 Insert the memory stick into a USB port on your PC.

- 14 Click **Save** to save the file to a USB memory stick.

**NOTE:**



---

You must save the file to the root directory of the USB memory stick (i.e., not in a folder).

---

- 15 Remove the memory stick from the PC.

- 16 Insert the memory stick into the USB port on the top of the PRO-LINK® Ultra.

- 17 Navigate to the **Admin Menu**.

The **Admin Menu** is displayed.

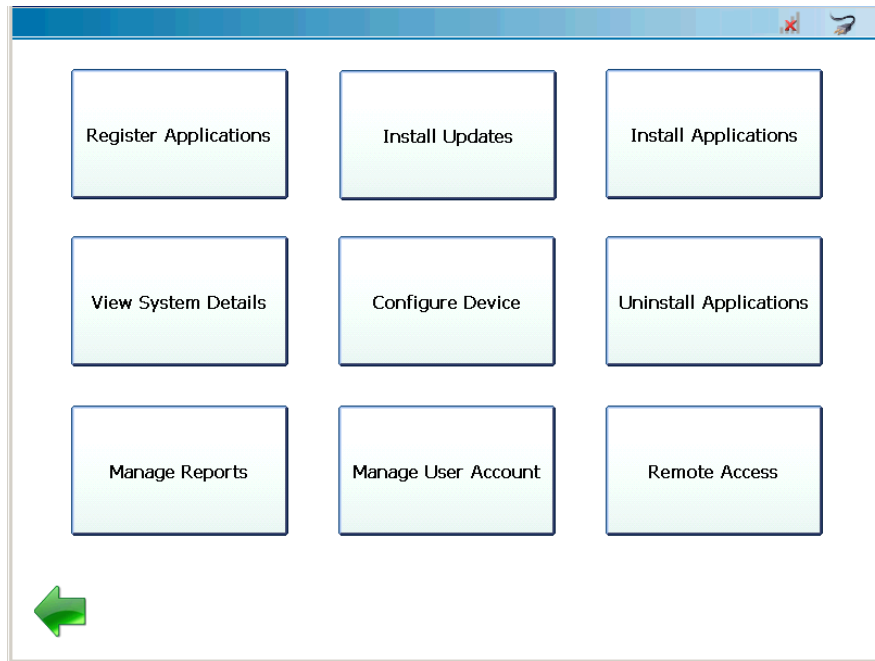


Figure 5.6 Admin Menu

18 Select **Register Applications**.

The PRO-LINK® Ultra displays a list of unregistered applications currently on the device.

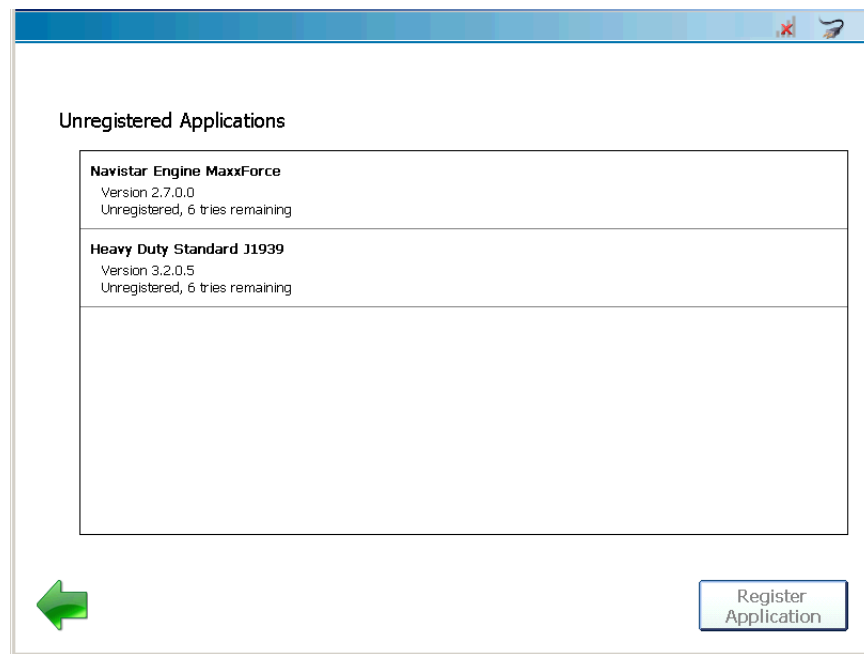


Figure 5.7 Unregistered Applications Screen

- 19 Touch the application you want to register to highlight it (e.g., **Heavy Duty Standard J1939**).
- 20 Touch **Register Application**.

The PRO-LINK® Ultra locates the Activation Code file on the memory stick, and activates the application.

A "software application registered" message is displayed.

- 21 Do one of the following:
  - Touch **Yes** to continue registering other applications.
  - Touch **No** to return to the Admin Menu (Figure 5.6).

## Copying Activation Codes Manually

The following procedure assumes that you have:

- Internet access
- Previously created a User Account and Password
- Previously registered your PRO-LINK® Ultra

### NOTE:



---

For detailed instructions on creating a user account and registering your PRO-LINK® Ultra, refer to *PRO-LINK® Ultra Registration and Software Activation Guide*, available on the CD that was shipped with your device.

---

To copy Activation Codes manually:

- 1 Visit the iQ™ Product Family website at the following address:  
**prolinkiq.nexiq.com.**

### NOTE:



---

For more information on using the iQ™ Product Family website, see the *iQ™ Companion and iQ™ Product Family Website User's Manual*.


---

- 2 Click **Log In** from the iQ™ Family menu on the left side of the page.
- 3 Enter your **User ID**.
- 4 Enter your **Password**.
- 5 Click the **Login** button, located under the Password field.
- 6 Navigate to the **Device Registration** page.
- 7 Locate the **Registered Devices** section near the bottom of the page.
- 8 Click the **plus sign (+)** for the PRO-LINK® Ultra.

A Product Activation History for the device lists applications by product key, software title, software version, activation code, and activation file.

- 9 Click the link **Add New Software / Product Key** at the bottom of the page.
- 10 Enter the **Software Serial Number** and the **Software Product Key**.

**NOTE:**


 The **Software Serial Number** and the **Software Product Key** are printed on a sticker on the inside of the CD case shipped with your device.

**11 Click Activate.**

The application is added to the device's **Product Activation History**, which displays the activation code and the activation file name for each application.

**12 Copy the Activation Codes** from the website, and retain them for later use.

**NOTE:**

 The website sends you an e-mail containing the Activation Code. The Activation Code is also displayed on the **Product Activation History** screen on the website. For more information on the website, see the *iQ™ Companion and iQ™ Product Family Website User's Manual*.

**13 Navigate to the Admin Menu.**

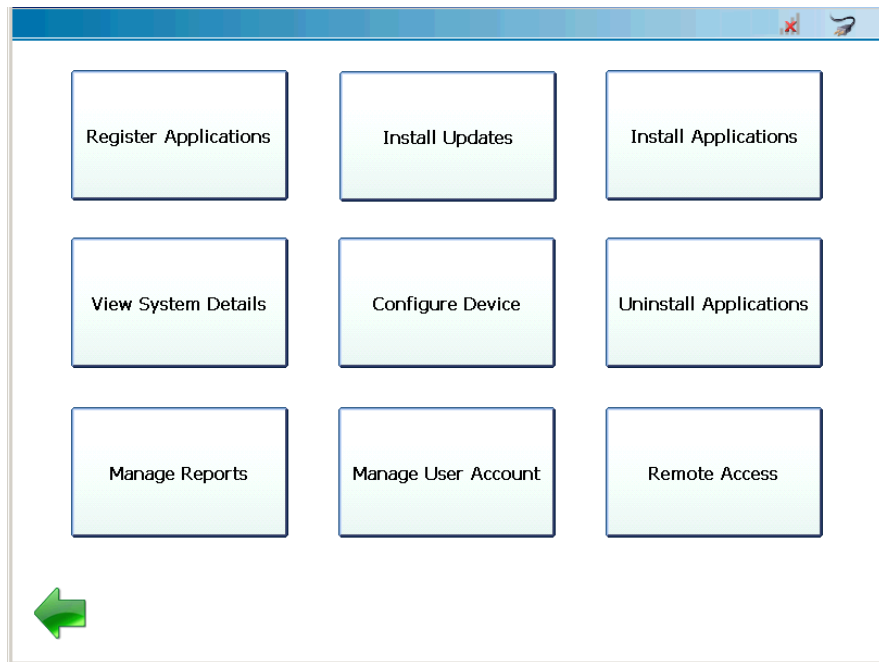


Figure 5.8 Admin Menu

14 Select **Register Applications**.

The **Unregistered Applications** screen is displayed.

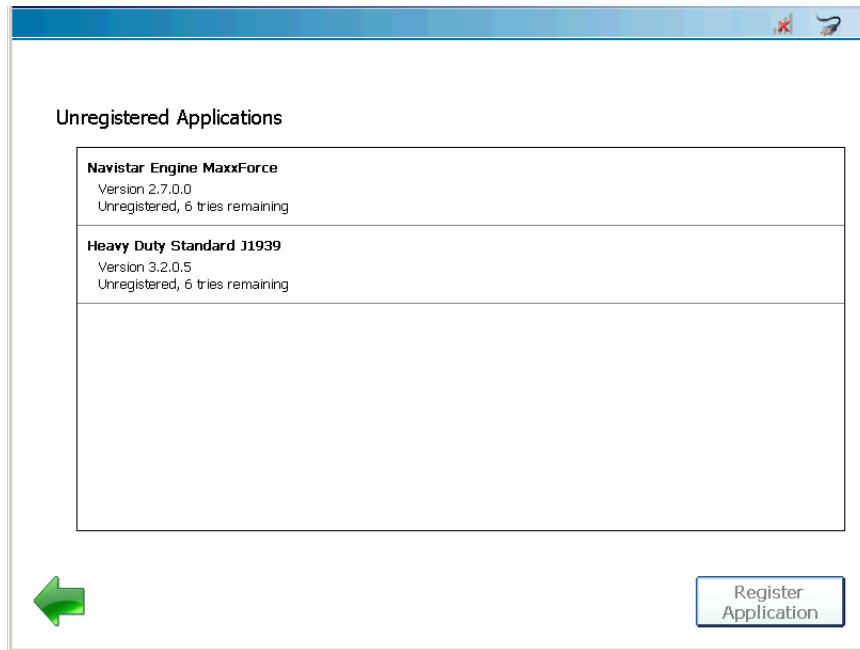


Figure 5.9 Unregistered Applications Screen

- 15 Touch the application you wish to register to highlight it (e.g., **Navistar Engine MaxxForce**).
- 16 Touch **Register Application**.



The PRO-LINK® Ultra searches the storage device for activation files. If no activation files are found, the PRO-LINK® Ultra asks if you want to enter the activation code manually.

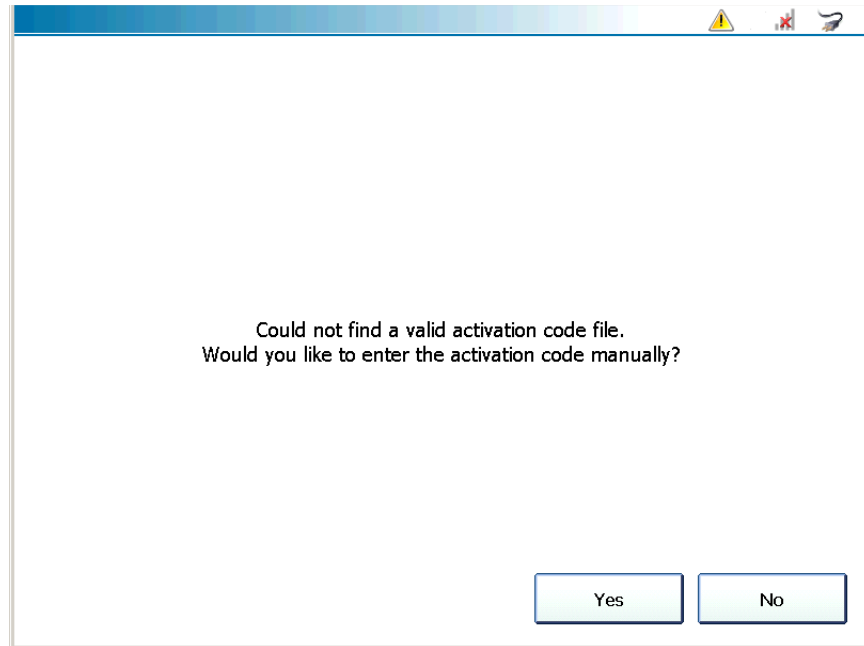


Figure 5.10 *Enter the Activation Code Manually?*

17 Touch **Yes**.

The **Register Application** screen is displayed.

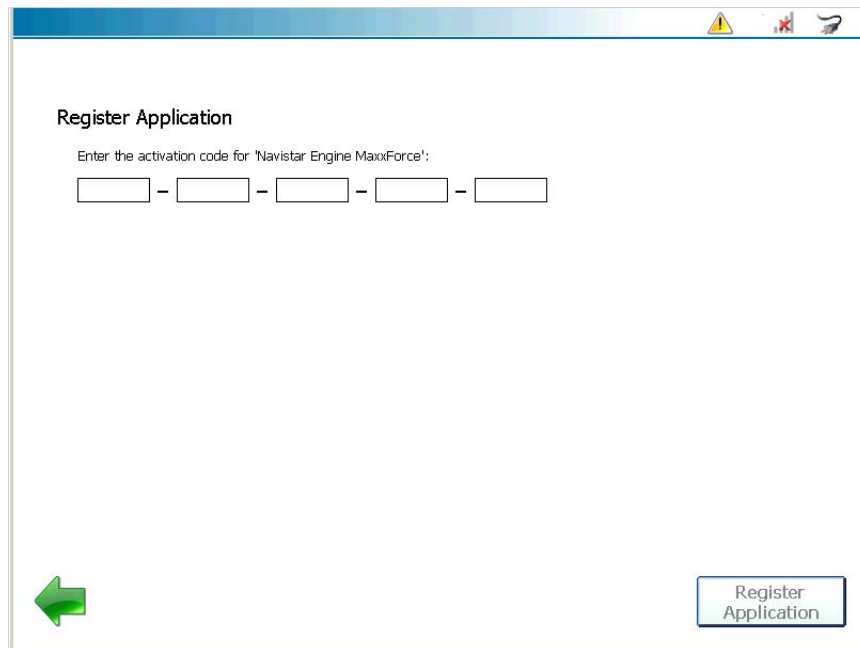



Figure 5.11 Register Application Screen

- 18 Touch within the first data entry field.

The pop-up keyboard is displayed.

- 19 Use the keyboard to enter the **Activation Code** (see Step 12 of this procedure on page 123).

- 20 Touch the **Down Arrow**  on the keyboard to hide the keyboard.

- 21 Touch **Register Application**.

The PRO-LINK<sup>®</sup> Ultra validates the Activation Code you entered, and activates the application.


A “software application registered” message is displayed.

- 22 Do one of the following:

- Touch **Yes** to continue registering other applications.
- Touch **No** to return to the Admin Menu (Figure 5.8).

## Installing Updates

You will be notified when software updates are available in two ways;

- The Updates Available icon  is displayed at the top of the display.
- The Admin Menu feature changes appearance

For example:

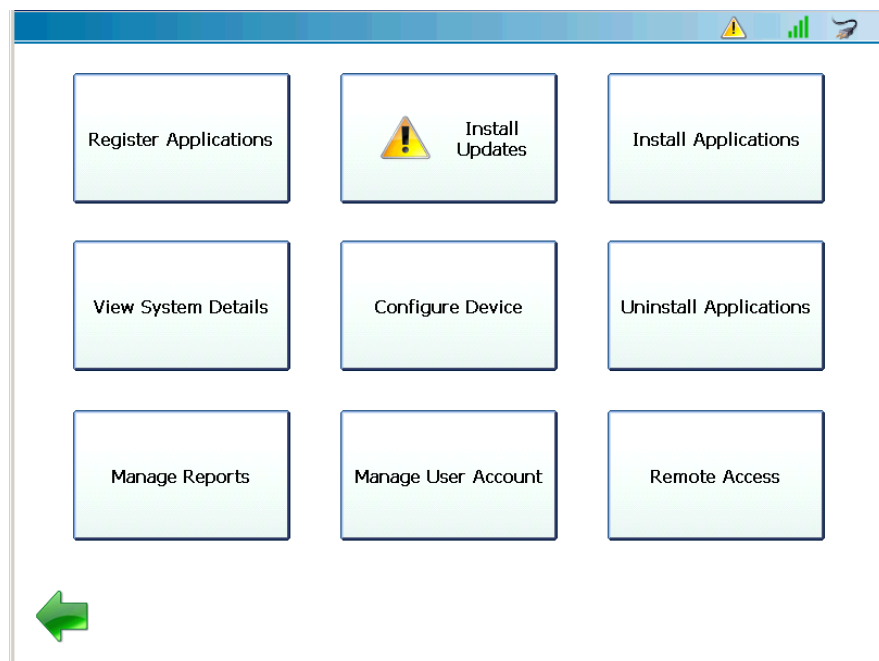



Figure 5.12 Admin Menu Indicating Updates Available

In addition, the Updates Available screen is displayed periodically when there is no activity on the Main Menu (Figure 5.1).

### NOTE:

-  Depending on the number of updates, this process may take several minutes. Also, you *cannot* install updates individually. You can, however, install software applications individually (as opposed to a system bundle for example) but you must do this from the Install Applications screen (see Figure 5.15, on page 130).

To install available updates:

- 1 Select **Install Updates** on the Admin Menu (Figure 5.12).

**NOTE:**



You can also touch the **Updates Available** icon  at the top of the screen.

The **Updates Available** screen is displayed.

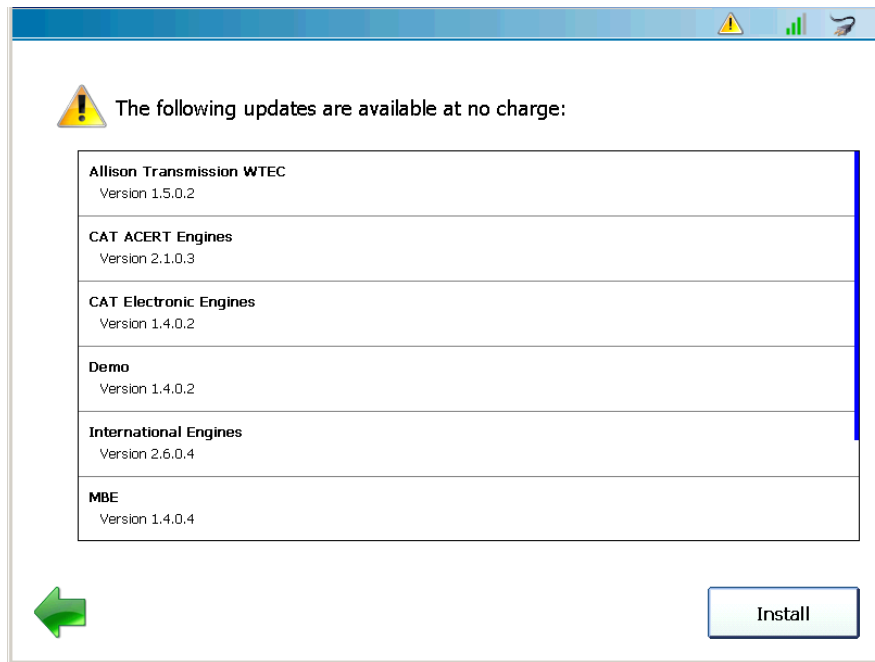


Figure 5.13 Available Updates Screen

- 2 Touch and drag your finger up to scroll down the list of available updates.
- 3 Touch **Install** to accept the updates and install them on your device.

The installation process begins.

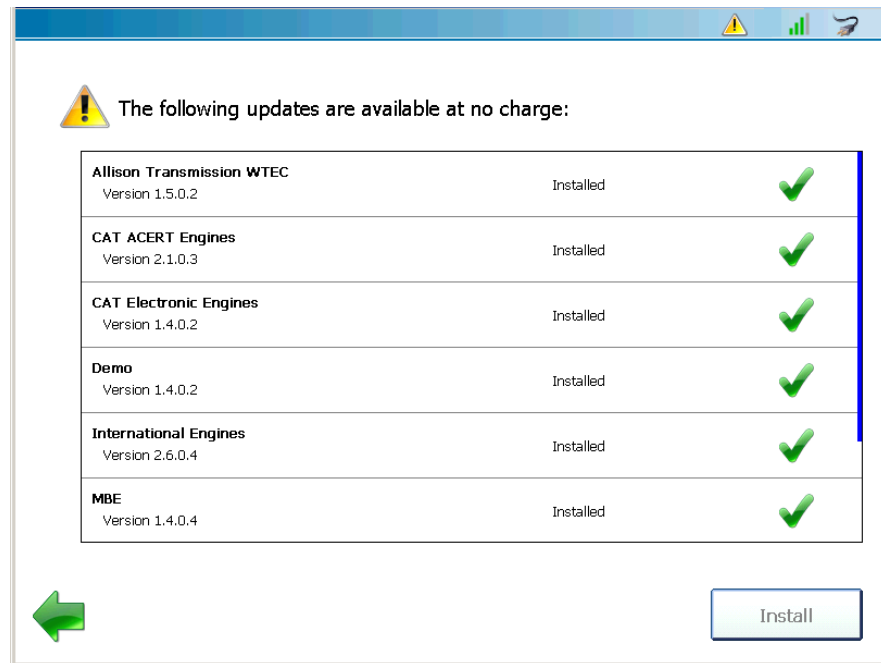


Figure 5.14 Installation in Process

A green check mark is displayed as each update is successful.

- 4 When all the updates are installed, touch the green **Back Arrow**.

A message is displayed indicating that a **Restart** is required.

- 5 Follow the on-screen prompts to restart the PRO-LINK® Ultra.

When the restart is complete, the **Main Menu** is displayed (Figure 5.1).

## Installing Applications

When software application updates are available, they can be installed one at a time from the Install Applications screen. You can also install all the applications at the same time.

To install applications individually:

- 1 Select **Install Applications** from the Admin Menu (Figure 5.2).

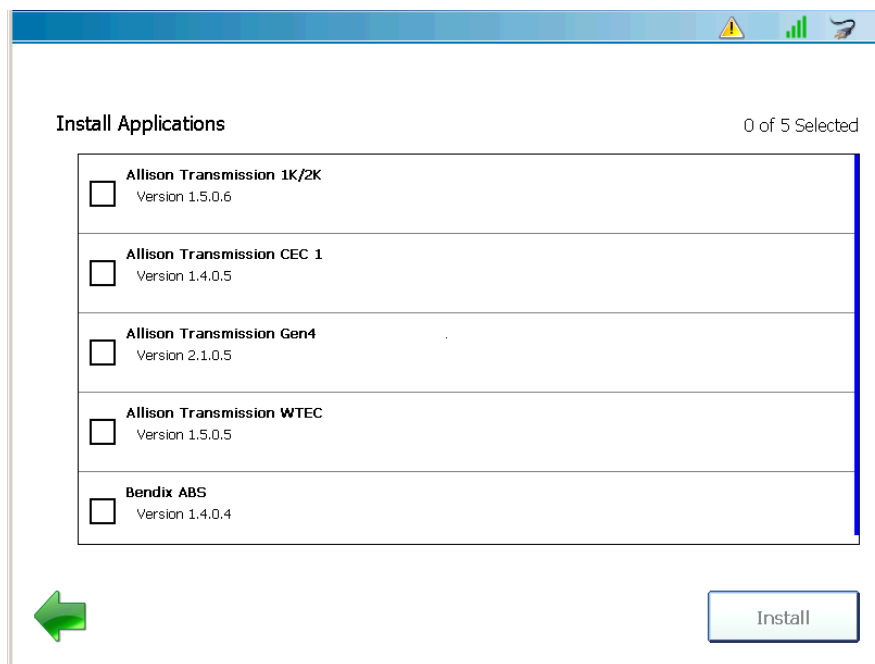


Figure 5.15 *Install Applications Screen*

- 2 Select the application, or applications, you wish to install (e.g., **Bendix ABS**).
- 3 Touch **Install**.

The application is downloaded to the device, and your selection is indicated with a green check mark.

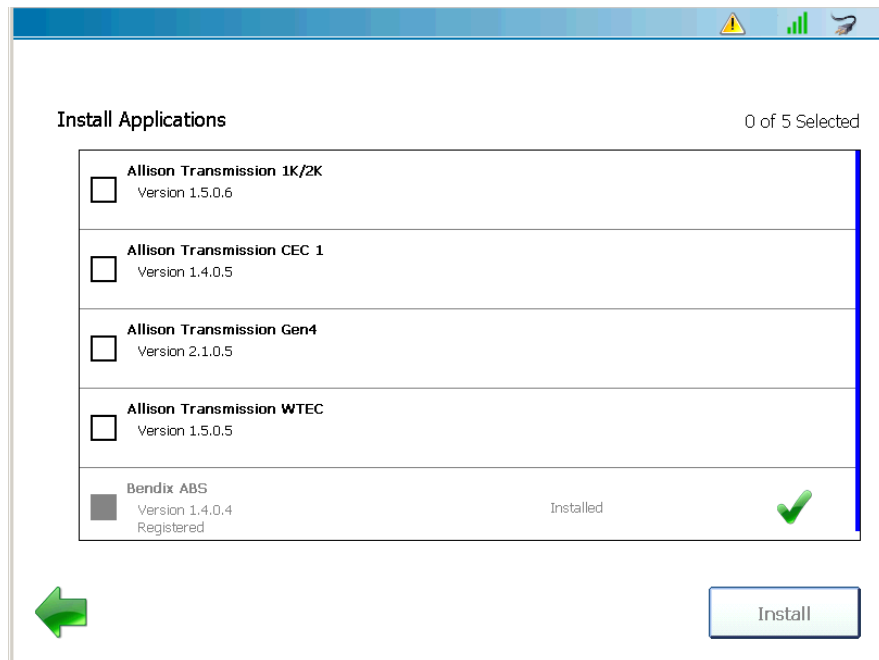


Figure 5.16

- 4 Touch the green **Back Arrow** at the bottom of the screen.

The following screen is displayed.

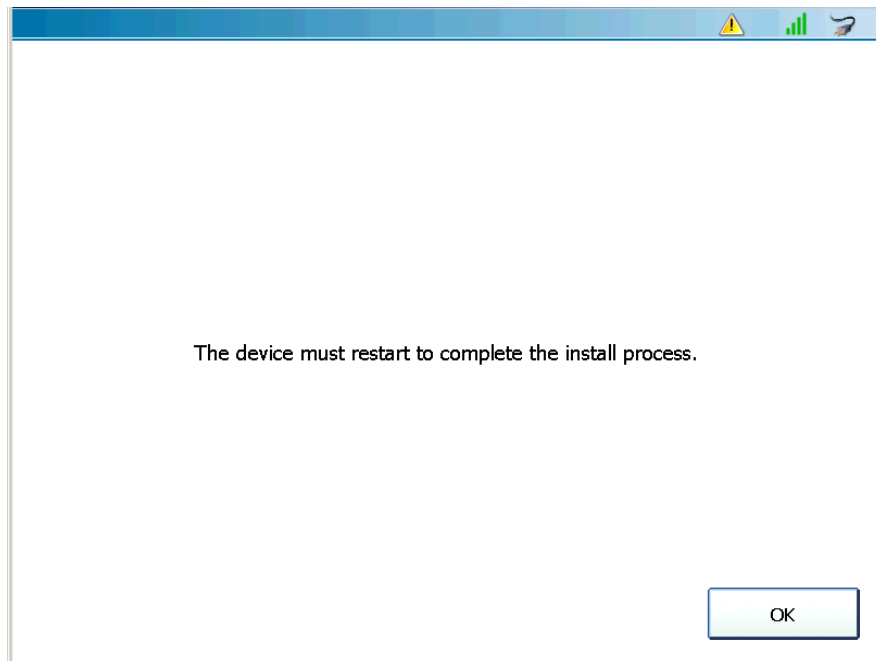


Figure 5.17 Device Restart Message

- 5 Touch **OK**.

The device closes down and then restarts.



The **Main Menu** is displayed.



Figure 5.18 Main Menu

**NOTE:**



---

To register applications, refer to *Registering Your Software Applications* on page 114, earlier in this manual.

---

## Viewing System Details

The System Details screen displays a list of all the software applications currently on the PRO-LINK® Ultra. It also includes the following details for each application:

- Software version
- Status (i.e., Registered or Unregistered)
- Number of tries remaining

**NOTE:**



The PRO-LINK® Ultra comes with pre-loaded software applications. For each application you have six (6) tries before you must purchase the application and register it.

To view system details:

- 1 Select **View System Details** from the Admin Menu (Figure 5.2).

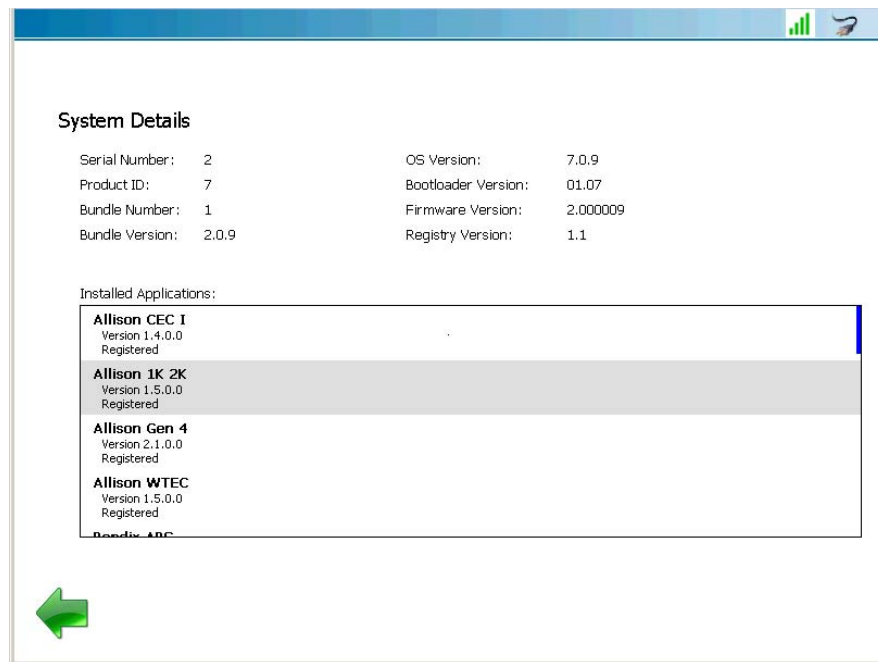


Figure 5.19 System Details Screen

- 2 Lightly touch the screen and drag your finger up to scroll down the list.
- 3 When you are finished viewing the information, touch the green **Back Arrow** at the bottom of the screen.

The **Admin Menu** is displayed.

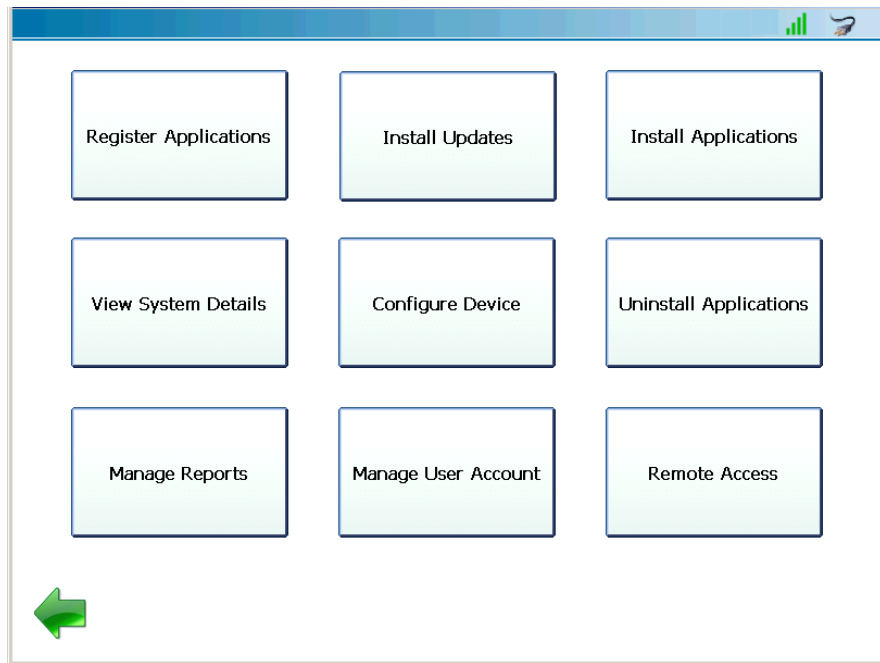


Figure 5.20 Admin Menu

## Configuring the Device

You access the **Configure Device Menu** from the Admin Menu (Figure 5.20).

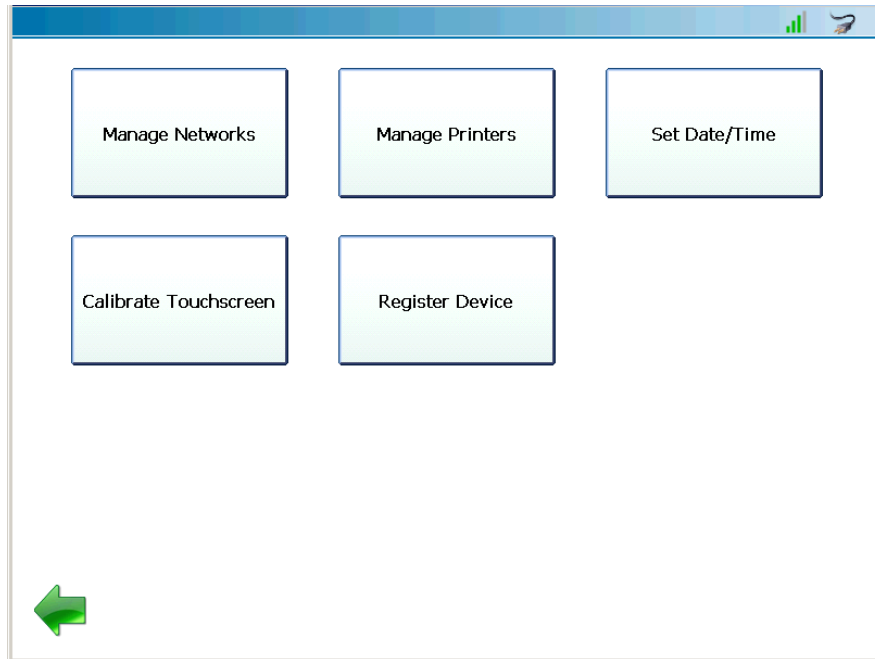


Figure 5.21 *Configure Device Menu*

The following features and submenus are available:

- Manage Networks (*pg. 137*)
- Manage Printers (*pg. 149*)
- Set Date/Time (*pg. 154*)
- Calibrate Touchscreen (*pg. 156*)
- Register Device (*pg. 158*)

**NOTE:**



The following procedures assume that you have Internet access and that you have previously made your network settings. For detailed information on connecting to your network as a first time user, and making the appropriate settings, refer to *PRO-LINK® Ultra Registration and Software Activation Guide* (available in portable document format (PDF) on the CD that was shipped with your device).

## Managing Networks

You access the Manage Networks menu from the Configure Device Menu (Figure 5.21).

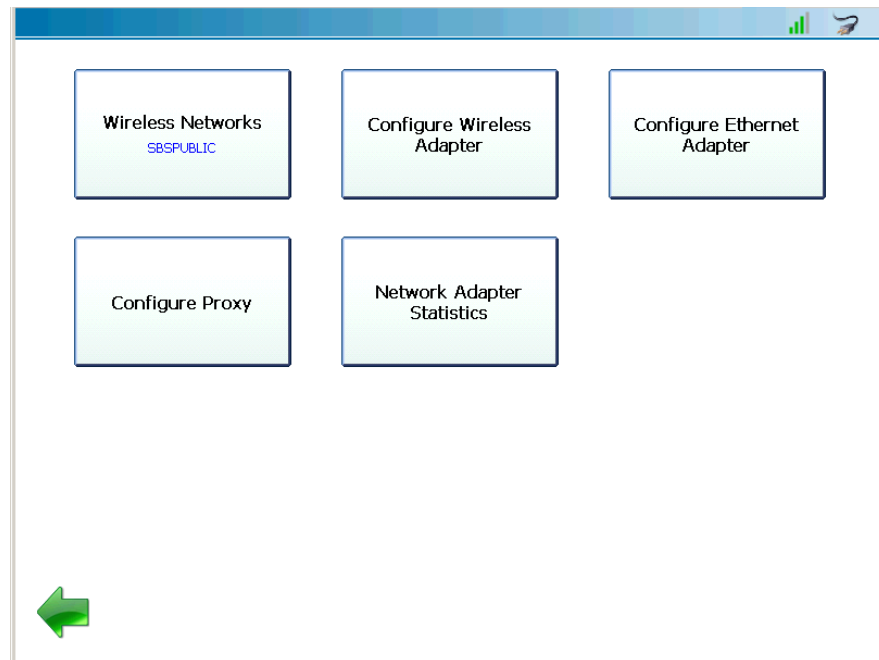


Figure 5.22 *Manage Networks Menu*

The following options are available:

- Wireless Networks (*pg. 137*)
- Configure Wireless Adapter (*pg. 139*)
- Configure Ethernet Adapter (*pg. 141*)
- Configure Proxy (*pg. 146*)
- Network Adapter Statistics (*pg. 148*)

### Wireless Networks

To connect to or disconnect from a wireless network:

- 1 Select **Wireless Networks** from the Manage Networks menu (Figure 5.22).

The **Wireless Networks** screen is displayed.

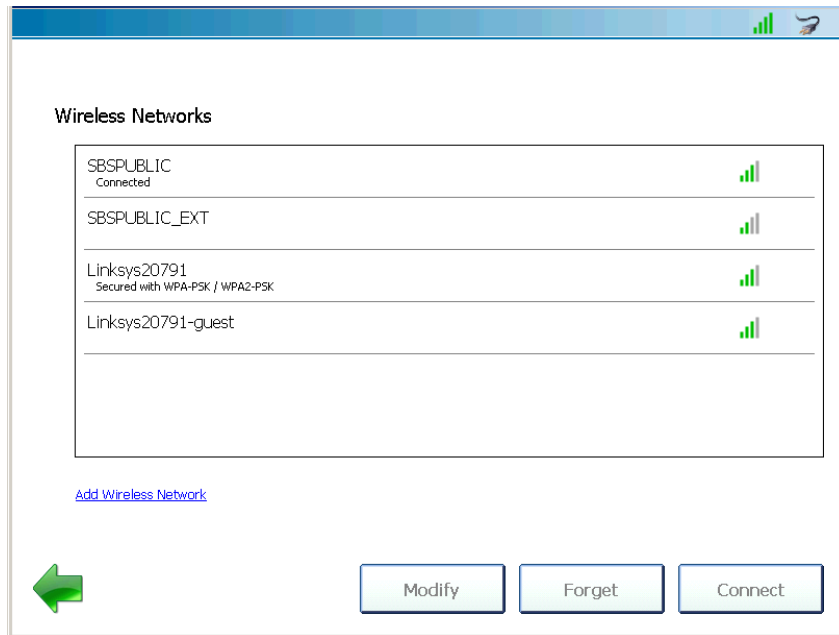



Figure 5.23 *Wireless Networks Screen*

The network to which you are currently connected is indicated (i.e., Connected). Touch the green **Back Arrow** to go back to the Manage Networks Menu (Figure 5.22).

**NOTE:**

 You can also add a wireless network if the network to which you want to connect does not appear in the list. Touch the **Add Wireless Network** link near the bottom of the screen and follow the prompts. It is recommended that you employ the assistance of the designated IT person or network administrator at your location prior to adding a wireless network.

- 2 From the list displayed, touch the screen to highlight the network to which you want to connect.
- 3 Touch the **Connect** button.
- 4 (optional) To modify network settings, select the network and touch the **Modify** button.
- 5 (optional) To disconnect from the wireless network to which you are currently connected, select the network and touch the **Forget** button.

## Configure Wireless Adapter

You use the Configure Wireless Adapter screen if you want to change what type of IP address your PRO-LINK® Ultra will have:

- Dynamic IP address (automatically selected and variable)
- Static IP address (you assign an address that does not change)

### NOTE:



For a dynamic IP address, you don't need to change the settings; the default is **Automatically**.

To assign a static IP address:

- 1 Select **Configure Wireless Adapter** from the Manage Networks menu (Figure 5.22).

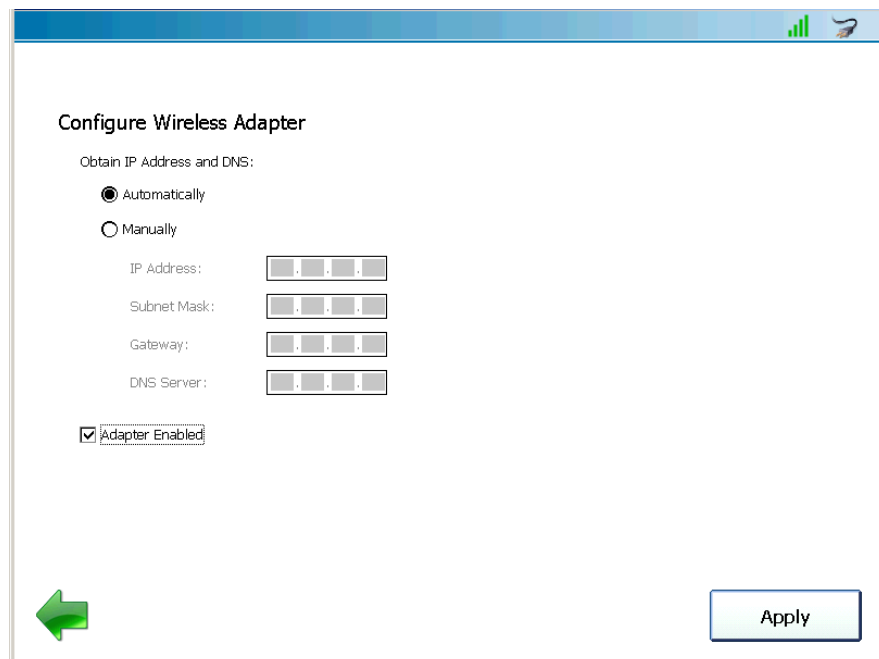



Figure 5.24 Configure Wireless Adapter Screen


- 2 Select **Manually**.


**NOTE:**

 You will need to obtain this information (i.e., IP Address, Subnet Mask) from the designated IT person or network administrator for your location. You may also need to enter Gateway and DNS information.

- 3 Touch within the **IP Address** data entry field.  
The keyboard is displayed.
- 4 Use the keyboard to enter the information.
- 5 Touch within the **Subnet Mask** data entry field, and enter the information.

**NOTE:**

 The keyboard stays in place for your use.

- 6 Touch within the **Gateway** data entry field, and enter the information.
- 7 Touch within the **DNS Server** data entry field, and enter the information.
- 8 Touch the **Down Arrow**  on the keyboard to hide the keyboard.
- 9 Leave the **Adapter Enabled** check box activated.
- 10 Touch **Apply**.

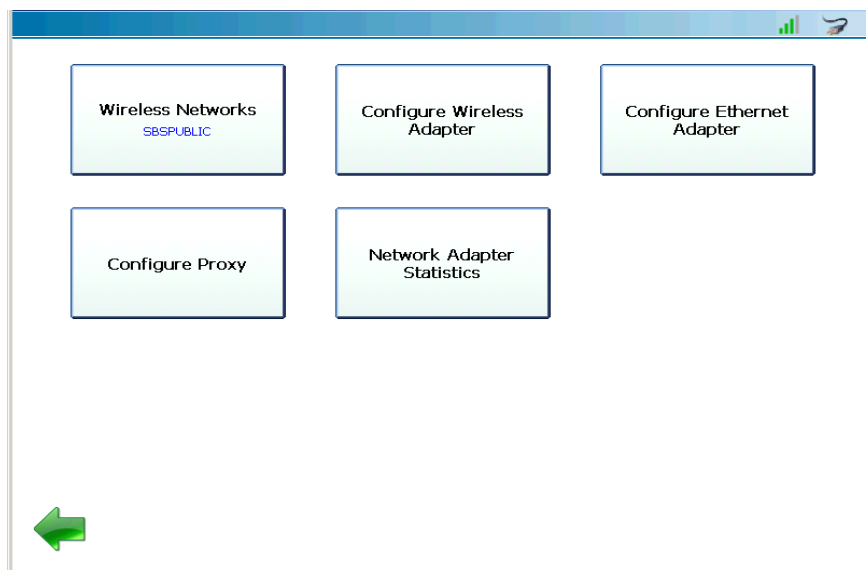


Figure 5.25 *Manage Networks Menu*



## Configure Ethernet Adapter

You use the Configure Ethernet Adapter screen if you want to connect to your local network using an Ethernet connection. Prior to making an Ethernet connection, you must decide how you are going to set up the IP address for PRO-LINK<sup>®</sup> Ultra. There are two choices:

- Dynamic (pg. 141)
- Static (pg. 143)

### NOTE:



---

The following procedures assume that you have an Ethernet cable and Internet access. They also assume that your local network is *not* configured using a proxy server. For information on proxy settings, refer to *Configure Proxy*, on page 146 of this manual.

---

### With a Dynamic IP Address

If you want to let PRO-LINK<sup>®</sup> Ultra automatically assign a dynamic IP address, you need to plug your network cable (i.e., the Ethernet cable you plug into your PC or laptop if you are not running wireless) into the Ethernet port on the top of the PRO-LINK<sup>®</sup> Ultra *prior* to making your IP settings.

To connect to the network with a dynamic IP address:

- 1 Insert one end of the Ethernet cable into the Ethernet port on the top of the PRO-LINK<sup>®</sup> Ultra.
- 2 Insert the other end of the Ethernet cable into your network.
- 3 Select **Configure Ethernet Adapter** from the Manage Networks menu (Figure 5.25).

The **Configure Ethernet Adapter** screen is displayed.

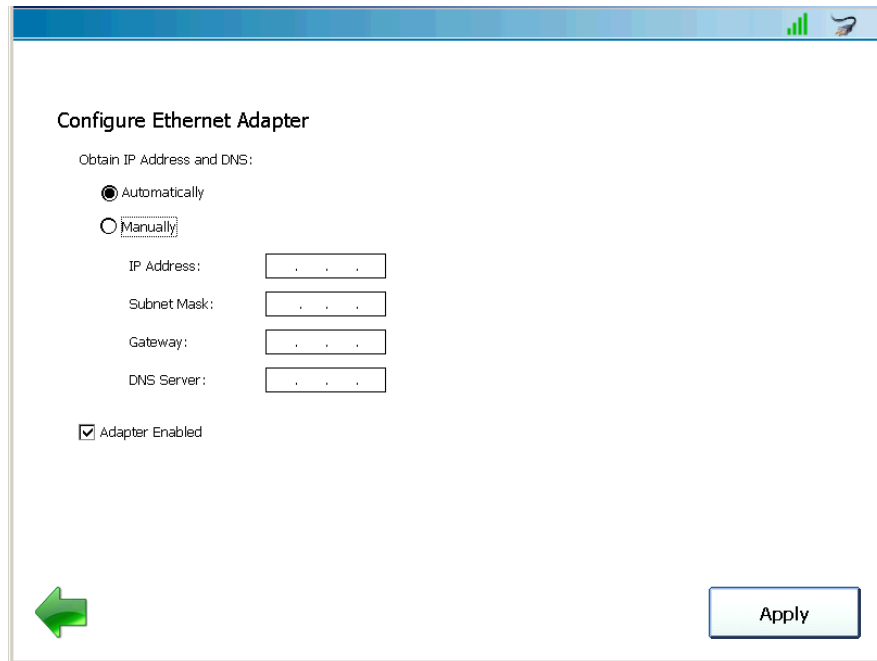


Figure 5.26 *Configure Ethernet Adapter Screen*

**NOTE:**



Depending on how your local network is set up, *you may* need to enter proxy settings (e.g., Domain, Username, and Password) prior to making an Ethernet connection. See *Configure Proxy*, on page 146 of this manual.

The default is **Automatically**.

- 4 Leave the **Adapter Enabled** check box activated (i.e., with the check mark in the box).
- 5 Touch **Apply** to accept the default.

The **Manage Networks** menu is displayed.

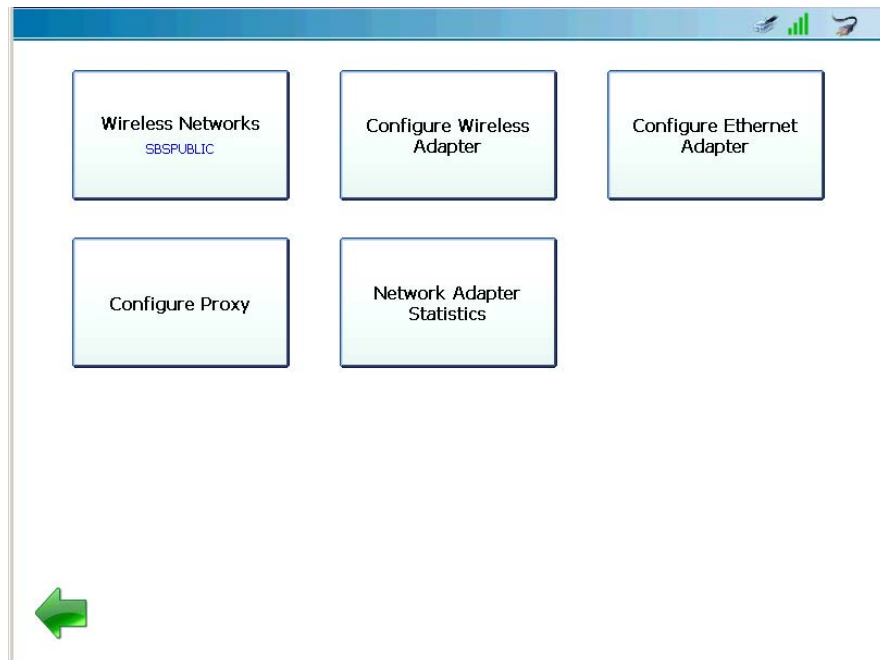




Figure 5.27 *Manage Networks Menu*

**NOTE:**

 The Ethernet icon  at the top of the display indicates that you are physically connected to an Ethernet cable.

- 6 Touch the green **Back Arrow** at the bottom of the screen to return to the Configure Device menu (Figure 5.21).

### With a Static IP Address

To connect to the network with a static IP address:

- 1 Insert one end of the Ethernet cable into the Ethernet port on the top of the PRO-LINK<sup>®</sup> Ultra.
- 2 Insert the other end of the Ethernet cable into your network.
- 3 Select **Configure Ethernet Adapter** from the Manage Networks menu (Figure 5.25).

The **Configure Ethernet Adapter** screen is displayed.

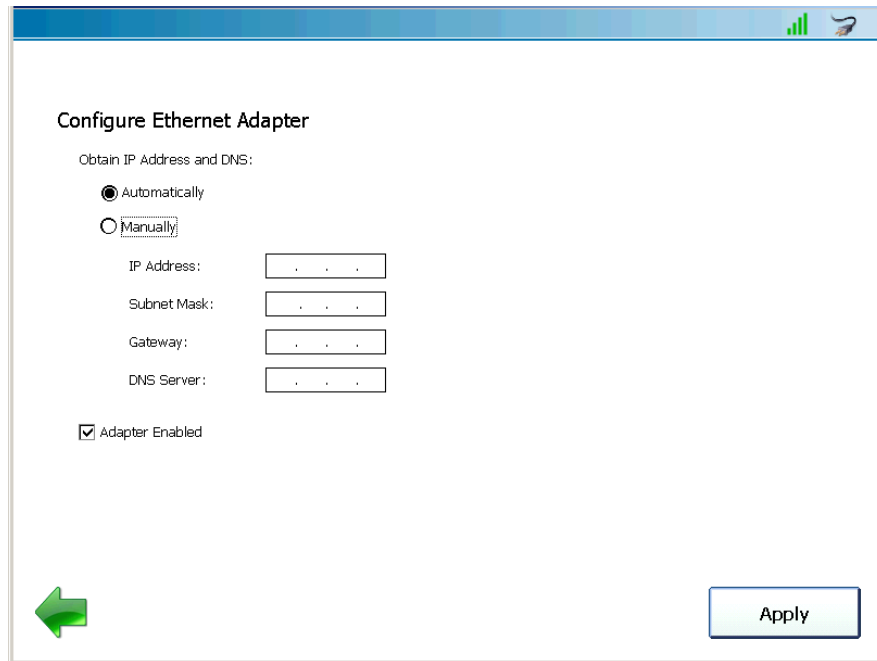




Figure 5.28 Configure Ethernet Adapter Screen

**NOTE:**


 Depending on how your local network is set up, *you may* need to enter proxy settings (e.g., Domain, Username, and Password) prior to making an Ethernet connection. See *Configure Proxy*, on page 146 of this manual.

- 4 Select **Manually**.

**NOTE:**

 You will need to obtain this information (i.e., IP Address, Subnet Mask) from the designated IT person or network administrator for your location. Depending on how your local network is configured, you may also need to enter Gateway and DNS Server information.

- 5 Touch within the first field (i.e., **IP Address**).  
The pop-up keyboard is displayed.
- 6 Use the keyboard to enter the **IP Address**.

- 7 Touch within the next field, and enter the **Subnet Mask**.
- 8 Touch within the **Gateway** data entry field, and enter the information (if required).
- 9 Touch within the **DNS Server** data entry field, and enter the information (if required).
- 10 Touch the **Down Arrow**  on the keyboard to hide the keyboard.
- 11 Leave the **Adapter Enabled** check box enabled.
- 12 Touch **Apply**.

The **Manage Networks** menu is displayed.

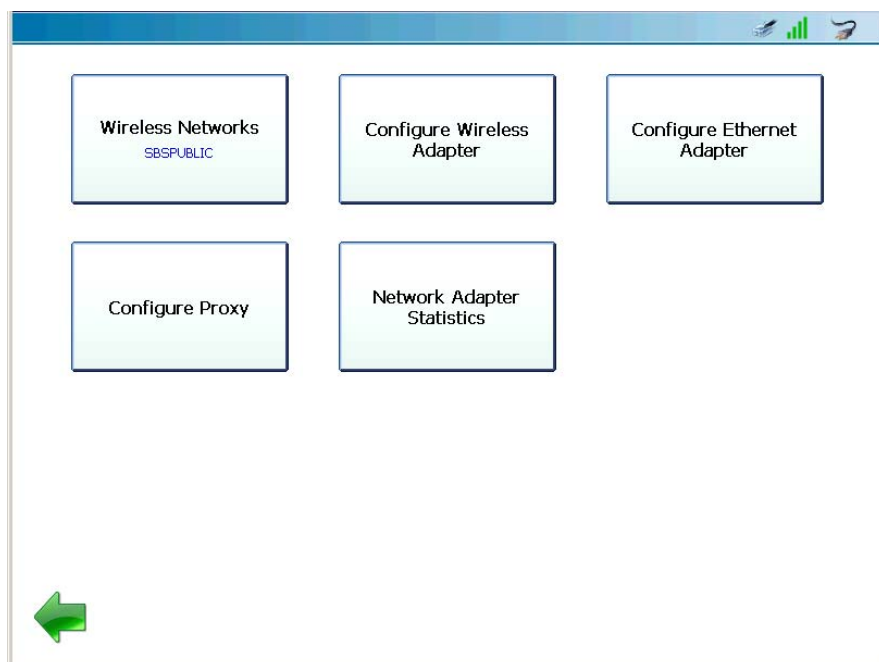



Figure 5.29 *Manage Networks Menu*

**NOTE:**



The Ethernet icon  at the top of the display indicates that you are connected.

Touch the green **Back Arrow** at the bottom of the screen to return to the Configure Device menu (Figure 5.21).

## Configure Proxy

If your local network is configured using a proxy server, you will need to enter information to tell PRO-LINK® Ultra how to communicate with it.

**NOTE:**



If your local network is *not configured* using a proxy server, you do not need to enter these settings.

It may be preferable to have the designated IT person or network administrator for your location perform this task for you.

To enter proxy settings:

- 1 Select **Configure Proxy** from the Manage Networks menu (Figure 5.25).

A screenshot of a mobile application interface titled "Configure Proxy". The screen has a white background with a blue header bar at the top. In the top right corner of the header bar, there are icons for signal strength and battery level. The main content area contains the following elements:

- A checkbox labeled "Use Proxy Server" which is currently unchecked.
- Two text input fields labeled "Server:" and "Port:" stacked vertically.
- A second checkbox labeled "Requires Authentication" which is also unchecked.
- Three text input fields labeled "Username:", "Password:", and "Domain:" stacked vertically.
- A green arrow icon pointing left, located in the bottom left corner of the screen.
- An "Apply" button located in the bottom right corner of the screen.

Figure 5.30 Configure Proxy Screen

- 2 Touch the **Use Proxy Server** check box to activate it (a check mark is displayed in the box).
- 3 Touch within the **Server** data entry box.

The keyboard is displayed.

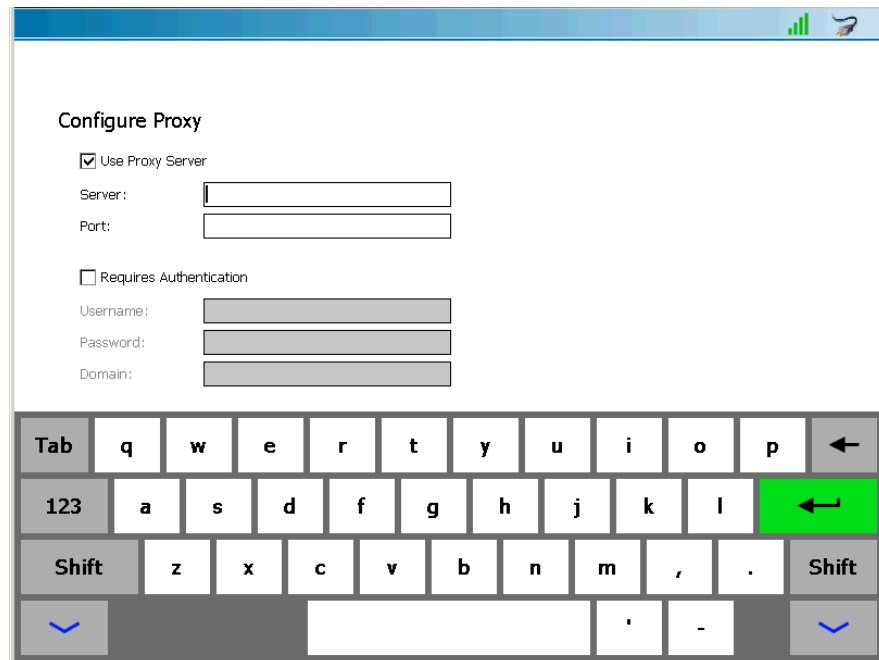



Figure 5.31 Keyboard

- 4 Use the keyboard to enter the server name.
- 5 Touch within the **Port** data entry field, and enter the information.
- 6 Touch the **Requires Authentication** check box to activate it if your proxy server requires a password.
- 7 Touch within the following data entry fields to enter the appropriate information:
  - Username
  - Password
  - Domain
- 8 Touch the **Down Arrow**  on the keyboard to hide the keyboard.
- 9 Touch **Apply**.

The **Manage Networks** menu is displayed (Figure 5.22).

## Network Adapter Statistics

You use the Network Adapter Status screen to view information about your wireless and Ethernet network settings. The following information is displayed:

- Address Type
- IP Address
- Subnet Mask
- Default Gateway
- MAC Address

To view information about your network settings:

- 1 Select **Network Adapter Statistics** from the Manage Networks menu (Figure 5.22).

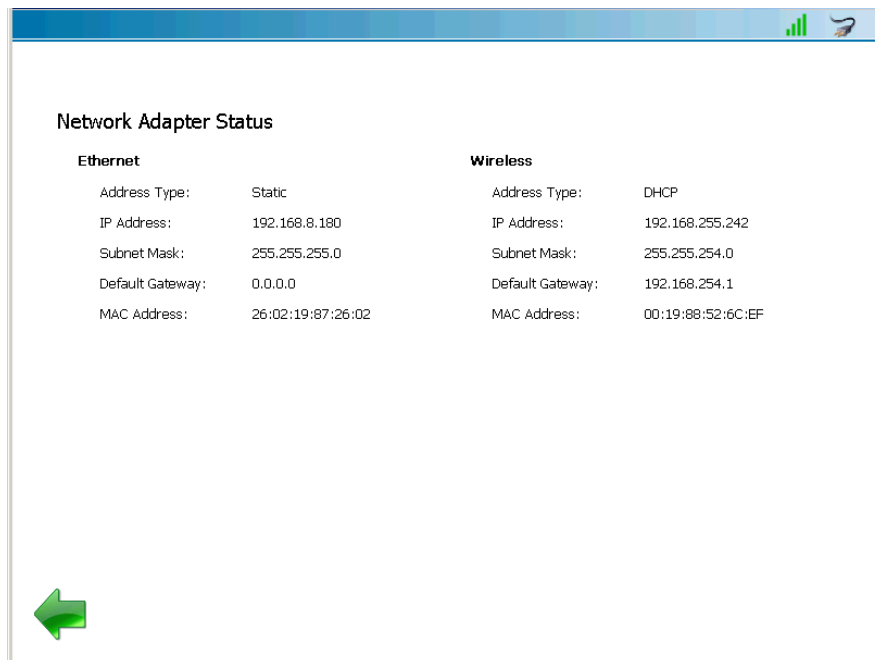


Figure 5.32 Network Adapter Status

- 2 Touch the green **Back Arrow** at the bottom of the screen to return to the Manage Networks menu (Figure 5.22).



## Managing Printers

You use the Manage Printer screen to add a printer, print a test page once you've selected a printer, and to set your print default to either print the information to a printer or to save it to a file. You can add multiple printers.

Prior to starting this procedure, you may need to gather the following information:

- Network path for the printer you want to print to
- Network security information, if required:
  - Username
  - Password
  - Domain

To add a printer so that you can print to it:

- 1 Select **Manage Printers** from the Configure Device menu (Figure 5.21).

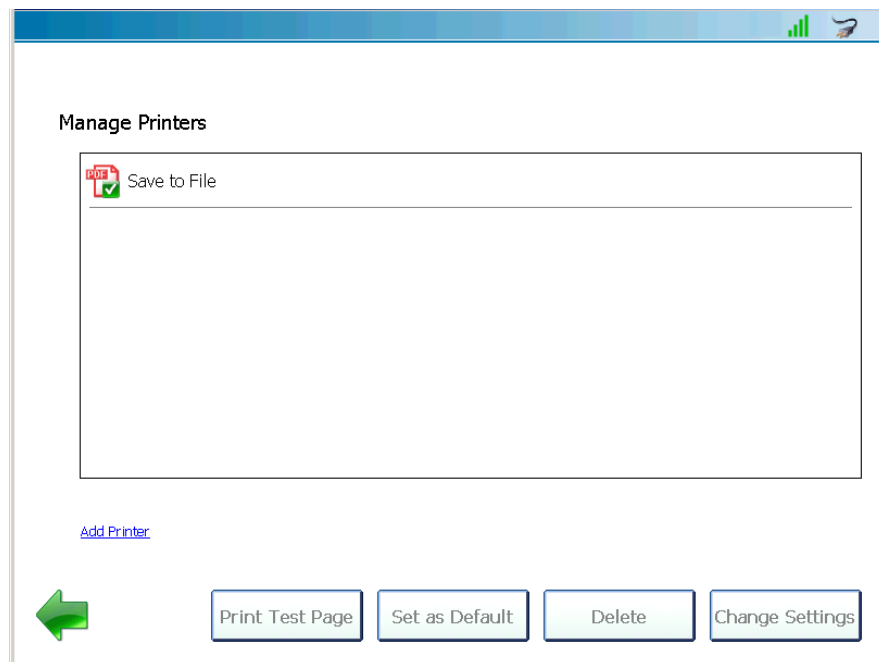


Figure 5.33 *Manage Printers Screen*

- 2 Touch the **Add Printer** link.

The **Add Printer** screen is displayed.

The screenshot shows a mobile application interface for adding a printer. The title is "Add Printer". It contains the following fields and controls:

- Printer Name:** A text input field.
- Port:** A dropdown menu with "USB" selected.
- Driver:** A dropdown menu with "HP PCL 3 / PCL 3 GUI" selected.
- Network Path:** A text input field with a placeholder "eg. \\server\printer or 192.168.0.21".
- Authentication:** A checkbox that is currently unchecked.
- Username:** A text input field.
- Password:** A text input field.
- Domain:** A text input field.
- Navigation:** A green arrow icon pointing left in the bottom-left corner and an "Add" button in the bottom-right corner.

Figure 5.34 Add Printer Screen

- 3 Touch within the **Printer Name** data entry box.

The keyboard is displayed.

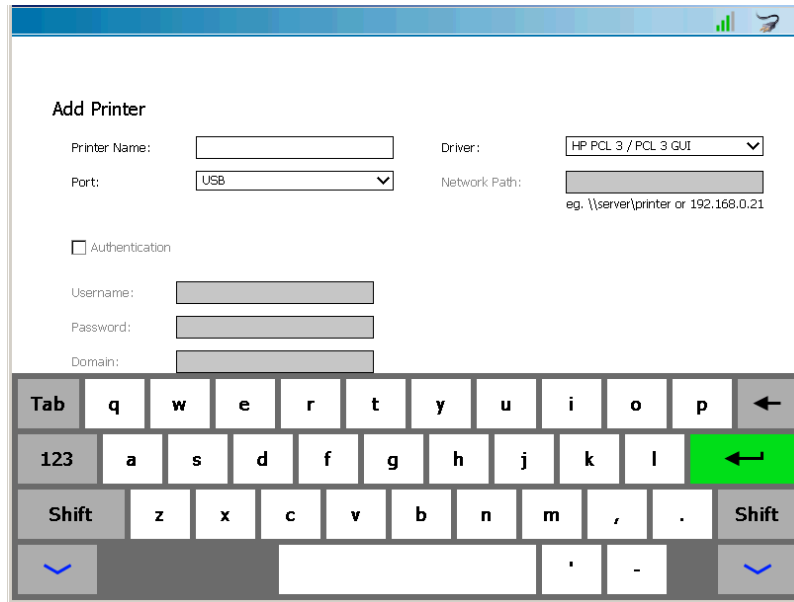



Figure 5.35 Keyboard

- 4 Use the keyboard to give the printer name (e.g., **example printer**).
- 5 Select **Network** from the Port drop-down list.  
Select USB if you plan to connect to the printer by means of a USB cable.
- 6 From the Driver drop-down list, select the driver that most closely matches the type of printer you have (e.g., **HP PCL 3/PCL 3 GUI**).
- 7 Use the keyboard to enter the network path (e.g., **192.168.123.123**).
- 8 Touch the **Authentication** check box to activate it (if your network server requires a password).
- 9 Touch within the following data entry fields to enter the appropriate information:
  - Username
  - Password
  - Domain
- 10 Touch the **Down Arrow**  on the keyboard to hide the keyboard.

11 Touch **Add**.

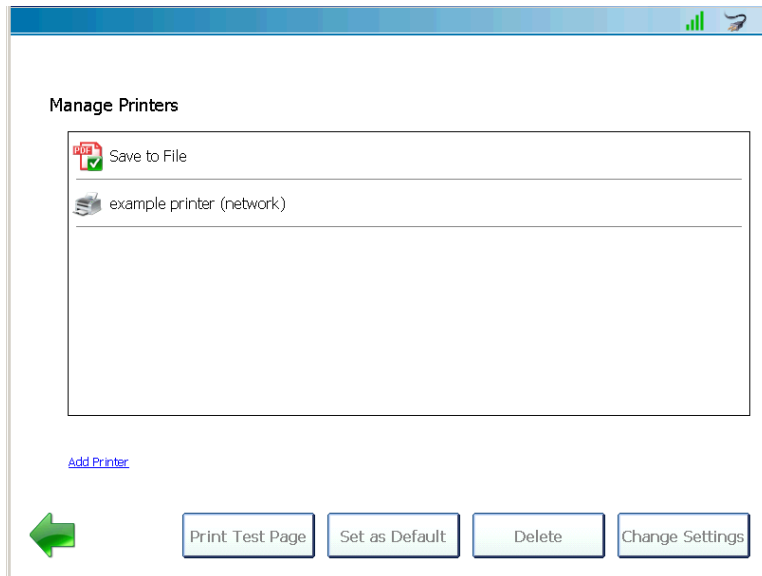


Figure 5.36 *Manage Printers Screen with Printer Added*

12 Touch the screen to highlight the printer you just added.

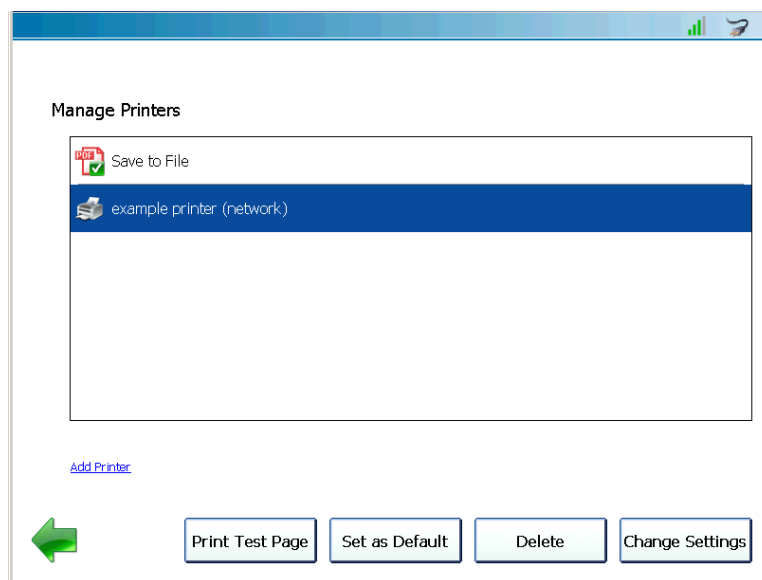


Figure 5.37 *Printer Highlighted*

- 13 Touch **Print Test Page** to make sure you can print to the printer.
- 14 Touch **OK**.
- 15 (optional) If you could not connect to the printer, touch **Change Settings** and check the information you entered on the Add Printer screen (Figure 5.35).

Make any necessary changes, and touch **Update**. Then print a test page again to make sure you can print to the printer.

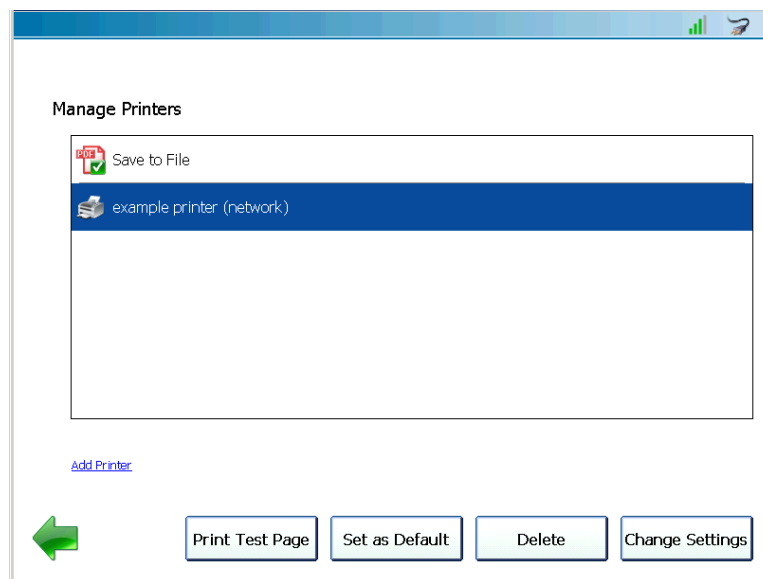


Figure 5.38 Printer Highlighted

- 16 Touch **Set as Default** to make this printer your default printer.

**NOTE:**



You can also select Save to File and then set that option as the default.

- 17 (optional) To delete the printer (for example, you no longer wish to use that printer), highlight the printer (e.g., example printer - network), and touch **Delete**.
- 18 Touch the green **Back Arrow** at the bottom of the screen to return to the Configure Device menu (Figure 5.21).

## Setting the Date and Time

From time to time, you may need to adjust the date and time settings.

To adjust the date and time settings:

- 1 Start at the **Configure Device Menu**.

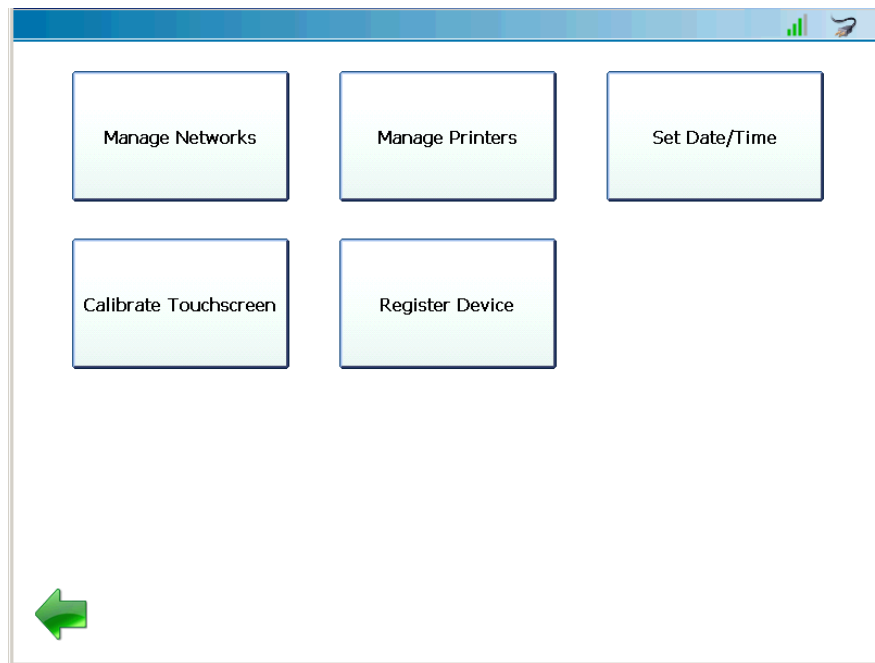


Figure 5.39 *Configure Device Menu*

- 2 Select **Set Date/Time**.

The **Set Date/Time** screen is displayed showing the current device settings.

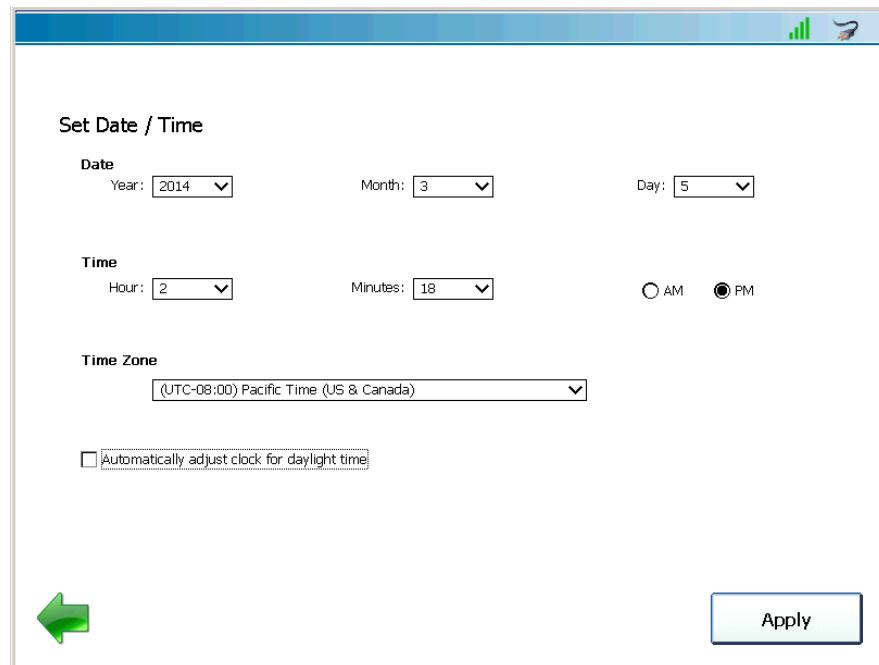


Figure 5.40 Set Date/Time Screen

- 3 Use the drop-down arrow at the right of each field to change the **Year**, **Month**, and/or **Day** as needed.
- 4 Follow the same procedure to change the **Hour** and **Minutes** to match the current time.
- 5 Select **AM** or **PM**.
- 6 Use the drop-down box to select the appropriate **Time Zone** for your location.
- 7 If you want to adjust the clock for daylight savings time, place a check mark in the **Automatically adjust clock for daylight time** check box; otherwise leave it blank.
- 8 Touch **Apply**.

The **Configure Device** menu is displayed. (Figure 5.39).

- 9 Touch the green **Back Arrow** at the bottom of the screen to return to the Admin Menu (Figure 5.20).

## Calibrating the Touchscreen

Occasionally, you may need to calibrate the touchscreen for optimal performance (e.g., if touching the screen does not result in the expected action).

To calibrate the touchscreen:

- 1 Start at the **Configure Device Menu** (Figure 5.21).
- 2 Select **Calibrate Touchscreen**.

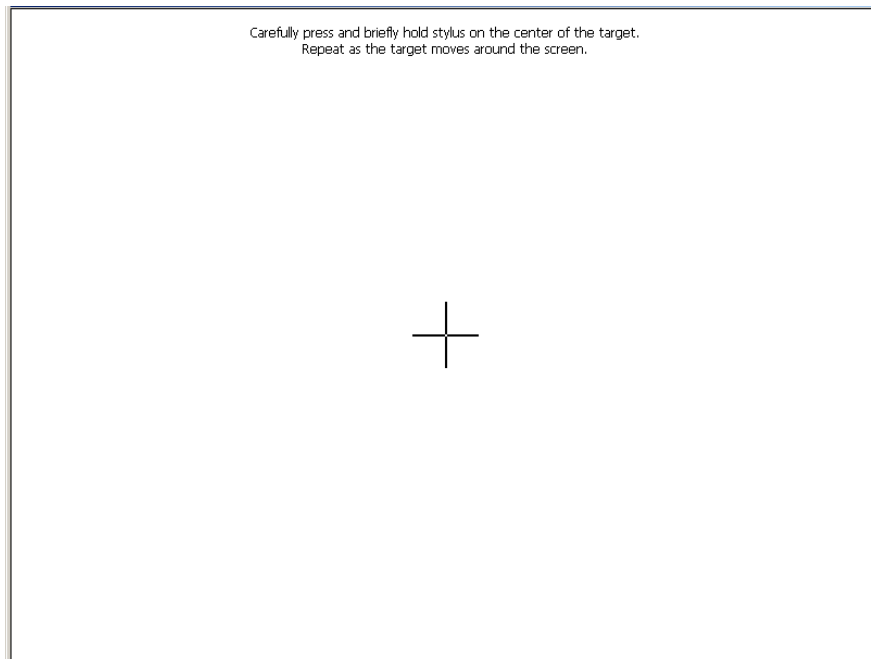


Figure 5.41 Calibration Screen

- 3 Carefully tap the center of the cross hairs at the center of the target.
- 4 Repeat as the target moves around the screen until the target no longer displays.



The following screen is displayed.

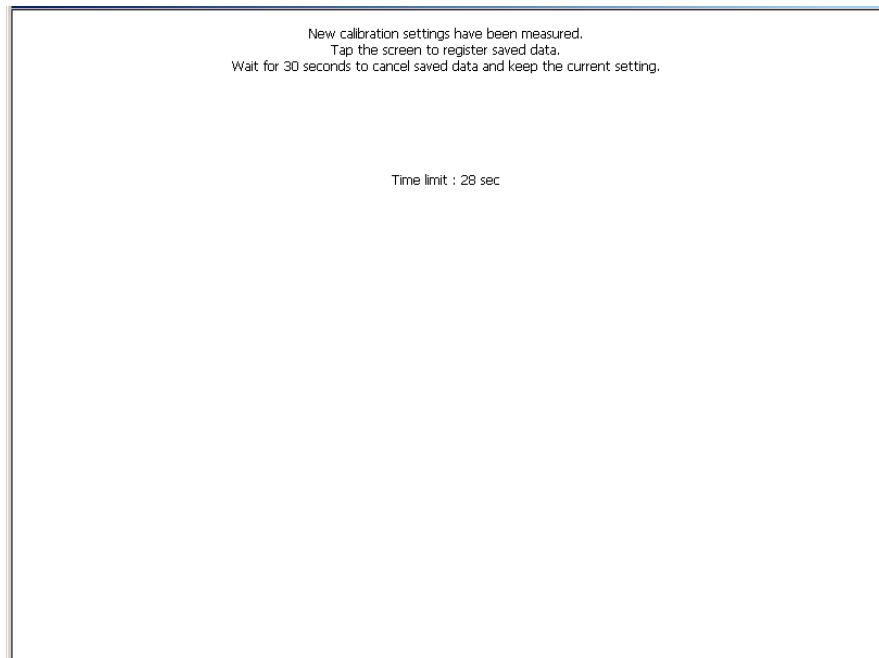


Figure 5.42 *Final Calibration Screen*


- 5 Touch anywhere on the screen to save the calibration.

You are returned to the **Configure Device Menu** (Figure 5.21).

## Registering the Device

The following procedure assumes that you have Internet access and that you have previously registered your PRO-LINK® Ultra as a first-time user.

**NOTE:**

 For detailed information on registering your device as a first-time user, refer to the *PRO-LINK® Ultra Registration and Software Activation Guide*, available in portable document format (PDF) on the CD that was shipped with your device.

To view the user name used to register the device:

- 1 Select **Register Device** from the Configure Device menu (Figure 5.21).



Figure 5.43 Register Device Screen

- 2 Touch **OK**.

The **Configure Device** menu is displayed.

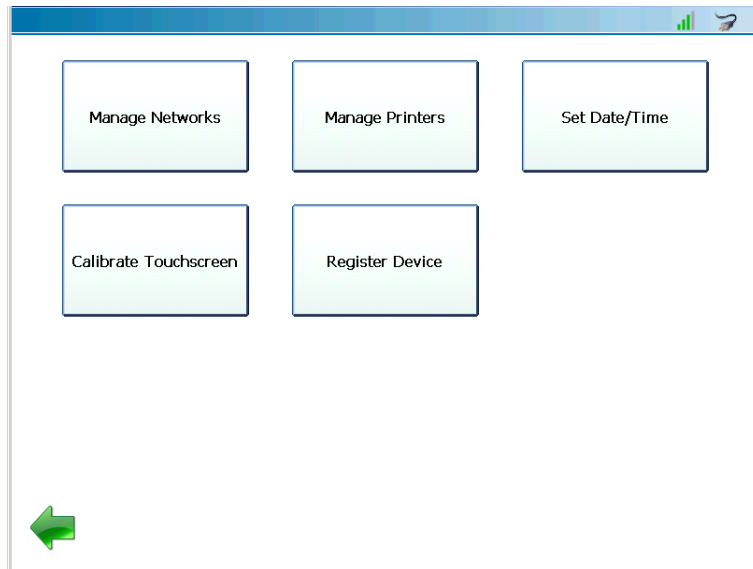


Figure 5.44 *Configure Device Menu*

- 3 Touch the green **Back Arrow** at the bottom of the screen.

The **Admin Menu** is displayed.

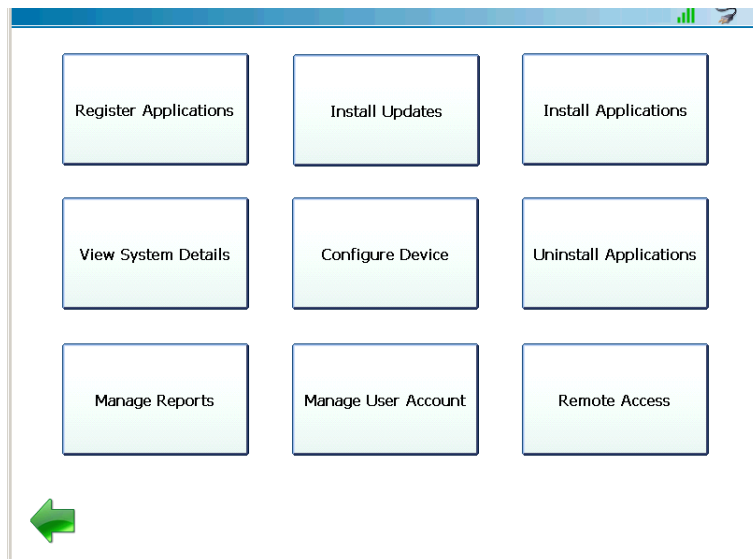


Figure 5.45 *Admin Menu*

## Uninstalling Applications

**IMPORTANT:**



---

The Uninstall Applications feature should be used only if you are directed to use it by Technical Support.

---

To uninstall applications:

- 1 Select **Uninstall Applications** from the Admin Menu (Figure 5.45).
- 2 Follow the instructions you receive from Technical Support.

**You can reach Technical Support by calling (800) 639-6774.**

## Managing Saved Reports

You use the Manage Reports feature to administer any reports you have previously saved to your PRO-LINK® Ultra (e.g., vehicle and fault information from a diagnostic session). From the Manage Reports screen you can do the following:

- Delete reports (pg. 162)
- Move reports (pg. 163)
- Print reports (if you are connected to a printer) (pg. 165)
- Preview reports (pg. 166)

To manage your saved reports:

- 1 Select **Manage Reports** from the Admin Menu (Figure 5.45).

The Manage Reports screen is displayed.

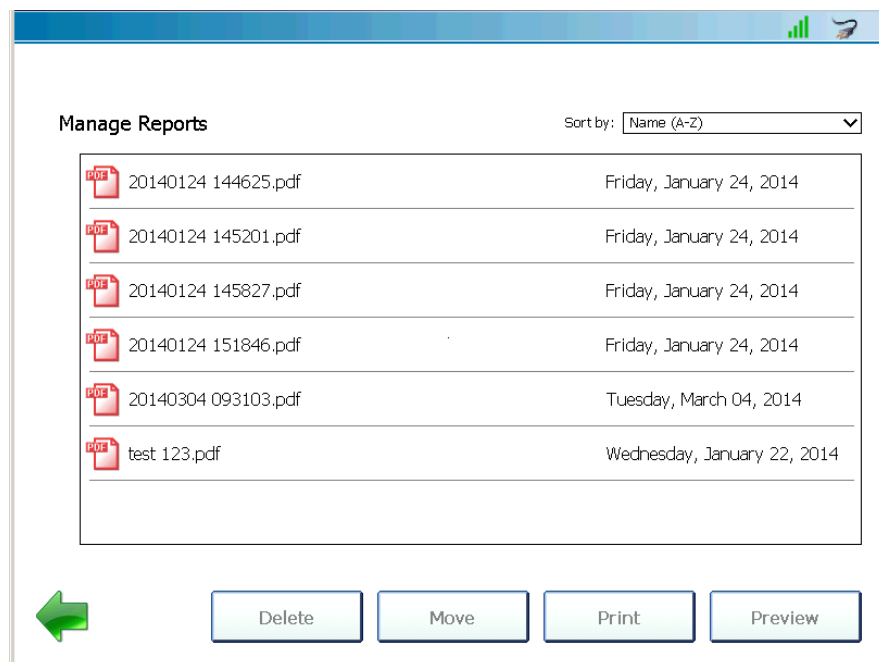


Figure 5.46 Manage Reports Screen

You can change the order in which your reports are displayed in the list by touching the Sort by drop-down menu and selection an option.

You can sort by:

- Name (A-Z)
- Name (Z-A)
- Creation Date (Old-New)
- Creation Date (New-Old)

This feature can be useful if you have a long list of reports saved to your device and you want to find a particular report quickly (e.g., a report you saved earlier in the day).

## Deleting a Report

To delete a report:

- 1 Touch the screen to select the report you want to delete.  
Your selection is highlighted.

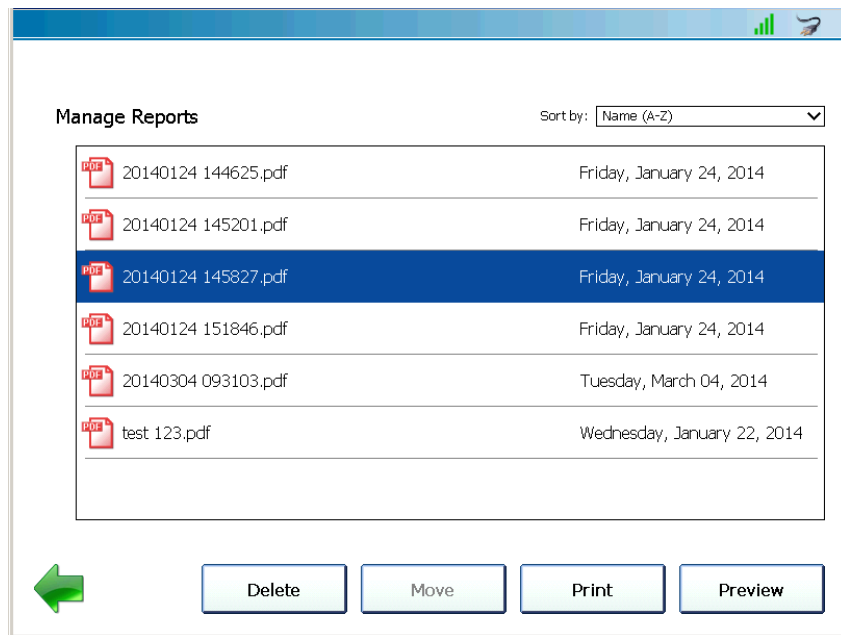


Figure 5.47 Selection Highlighted

- 2 Touch the **Delete** button.  
An **Are you sure?** message is displayed.
- 3 Touch **Yes**.  
The report is deleted from the list.

## Moving a Report

You can move a report saved to your PRO-LINK® Ultra to a storage device (e.g., a USB memory stick or a secure digital (SD) memory card).

To move a report to a storage device:

- 1 Touch the screen to select the report or reports you want to move.

Your selection is highlighted.

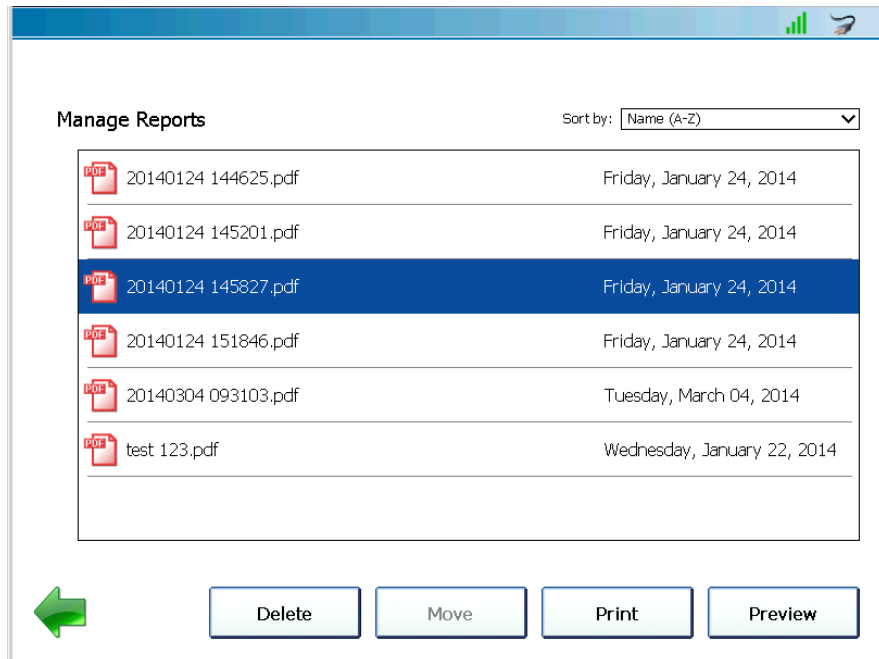


Figure 5.48 Selection Highlighted

- 2 Insert your storage device (e.g., a USB memory stick) into the appropriate port on the top of your PRO-LINK® Ultra.

The **Move** button is activated.

- 3 Touch **Move**.

The **Select Destination** screen is displayed.

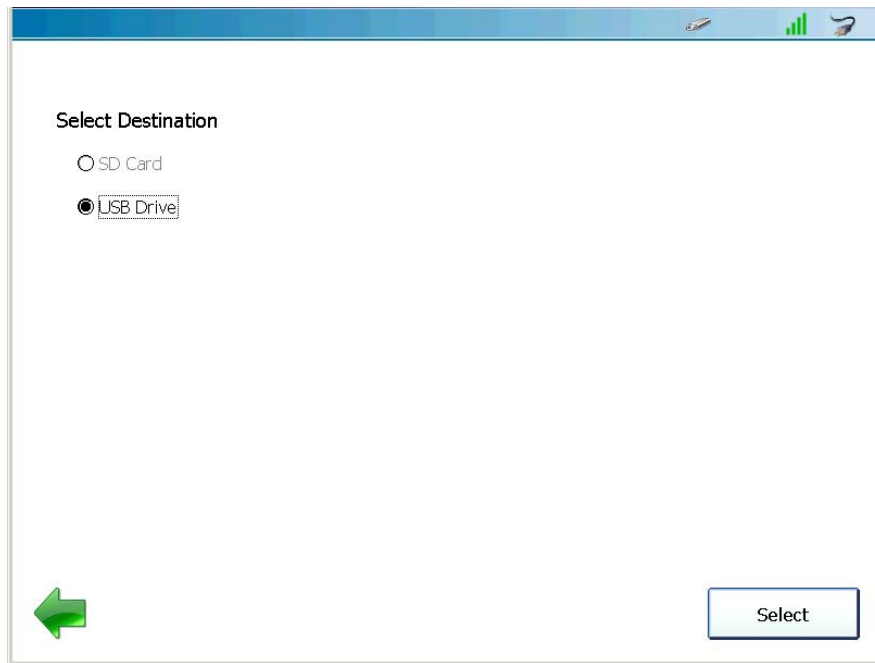


Figure 5.49 Select Destination Screen

You can choose between **SD Card** and **USB Drive**, depending on the type of storage device you have.

- 4 Touch the **Select** button to accept the default (i.e., USB Drive).

The report you selected is moved from your PRO-LINK® Ultra to your USB memory stick, and you are returned to the **Manage Reports** screen (Figure 5.46).



## Printing a Report

The following procedure assumes that you have previously setup a printer and that you are appropriately connected to that printer.

### NOTE:



For detailed information on configuring your PRO-LINK® Ultra to print to a printer, refer to *Managing Printers* on page 149 of this manual.

To print a report:

- 1 Touch the screen to select the report you want to print.

Your selection is highlighted.

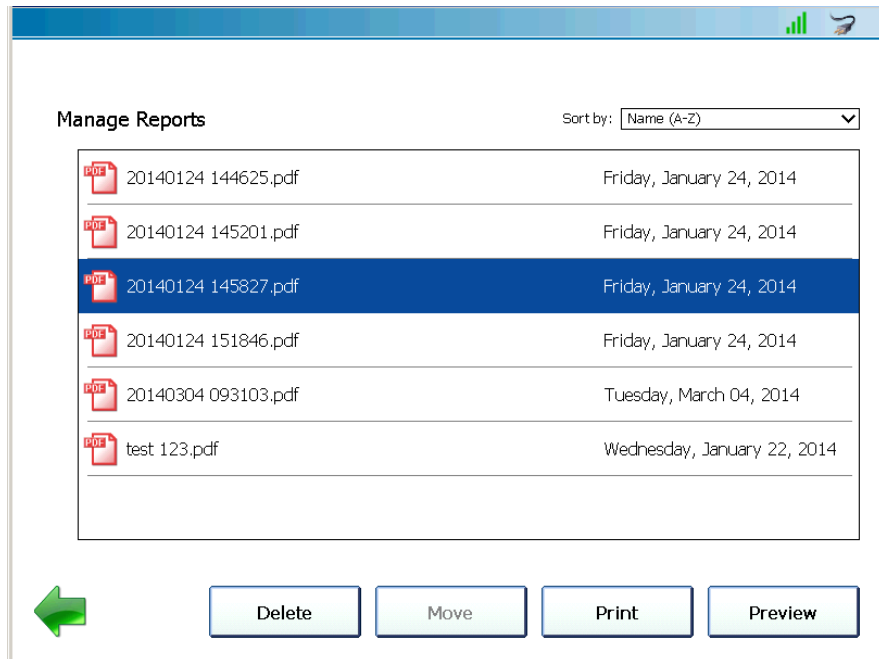


Figure 5.50 Selection Highlighted

- 2 Touch the **Print** button.

The **Select Printer** screen is displayed.

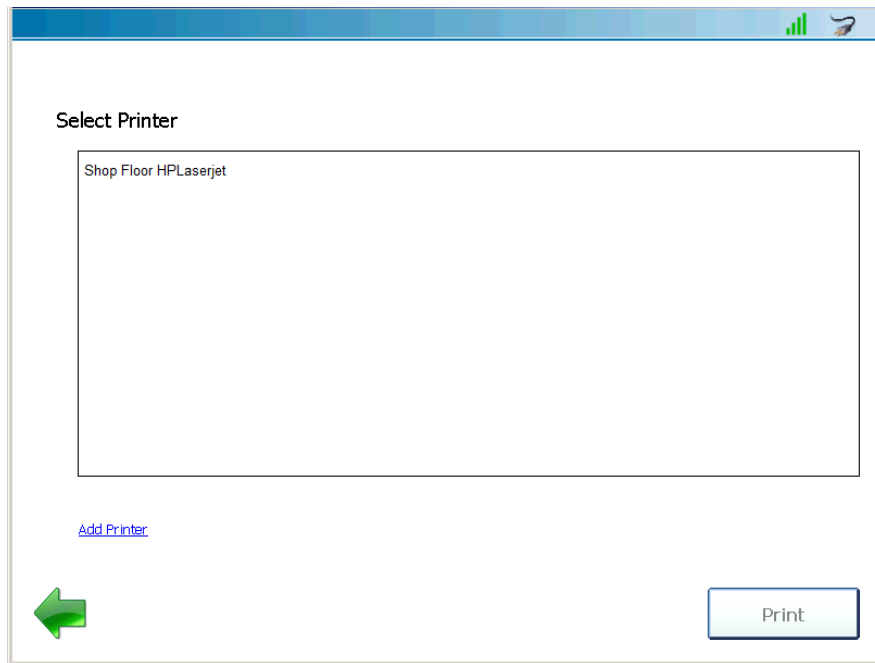


Figure 5.51 Select Printer Screen

- 3 Select a printer from the list of available printers.

**NOTE:**



---

You can also add a printer to the list of available printers by touching **Add Printer**. Supply the required information (e.g., printer name) and touch the **Add** button.

---

- 4 Touch **Print**.

## Previewing a Report

You can preview a report to confirm that it's the report you want.

To preview a report:

- 1 Touch the screen to select the report you want to preview.

Your selection is highlighted.

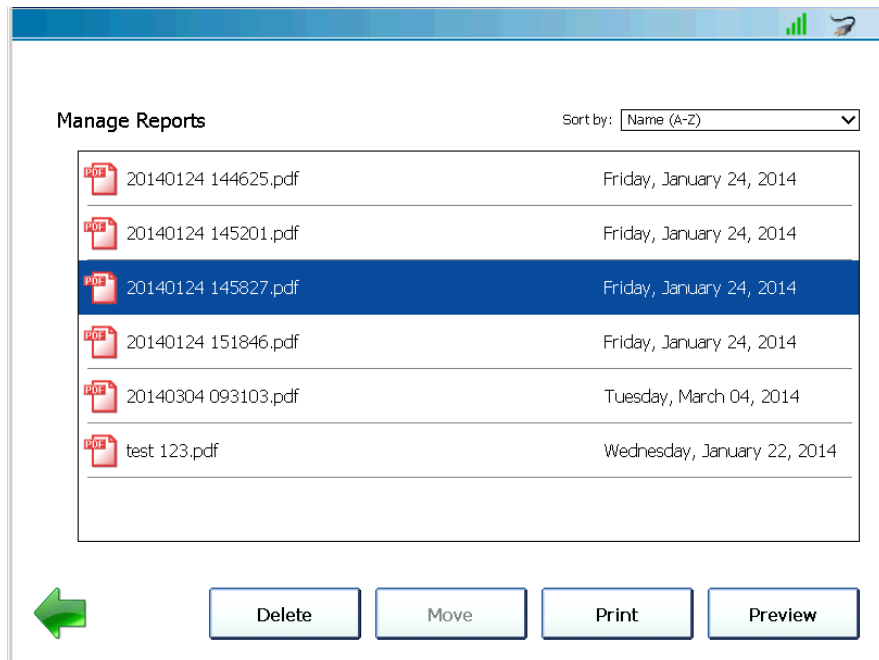


Figure 5.52 Selection Highlighted

## 2 Touch Preview.

The preview is displayed.

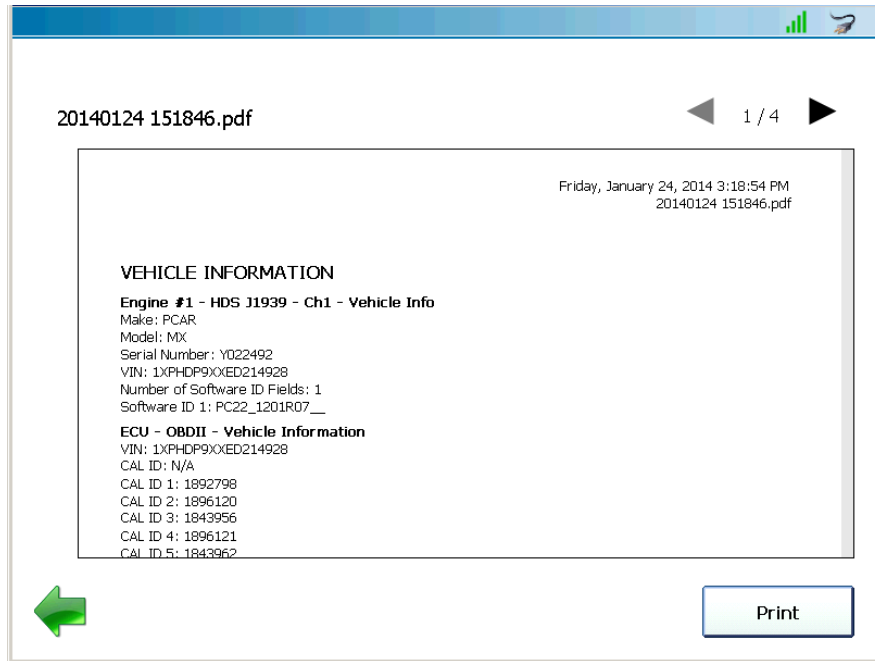


Figure 5.53 Report Preview

You can move from page to page by using the directional arrows at the top of the display.

- 3 When you have finished viewing the information, do one of the following:
  - Touch **Print** to send the report to a printer using the Select Printer screen (Figure 5.51).
  - Touch the green **Back Arrow** at the bottom of the screen return to the Manage Reports screen (Figure 5.52).
- 4 Touch the green **Back Arrow** again.

The **Admin Menu** is displayed.

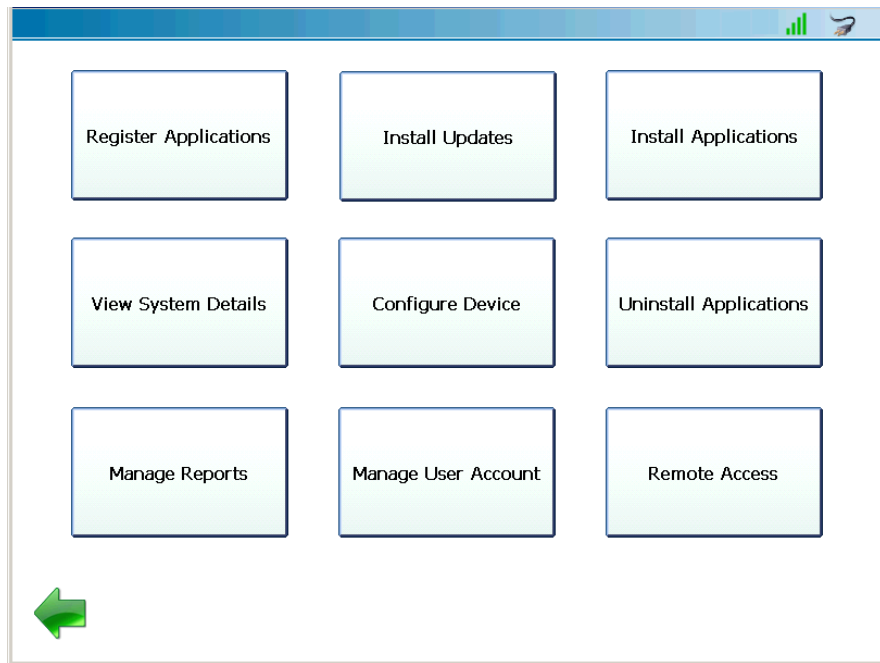


Figure 5.54 Admin Menu

## Managing Your User Account

You use the Manage User Account feature to access your online account. Once on the Update User Account screen, you can change your contact information.

**NOTE:**



This procedure assumes that you have Internet access and that you have previously created a user account. For detailed instructions on creating a user account and registering your PRO-LINK® Ultra, refer to *PRO-LINK® Ultra Registration and Software Activation Guide*, available on the CD that was shipped with your device.

To access your online account:

- 1 Select **Manage User Account** from the Admin Menu (Figure 5.54).

A screenshot of a mobile application's login screen. The screen has a white background with a blue header bar at the top. In the top right corner of the header bar, there are icons for signal strength and a user profile. The main content area is titled "Login". Below the title, there are two input fields: "Username:" with the text "example\_user" and "Password:". Below the password field is a checkbox labeled "Show Password". At the bottom left, there is a green arrow pointing left. At the bottom right, there is a button labeled "Login". Below the input fields, there are two blue links: "I forgot my password" and "Create new account".

Figure 5.55 Login Screen

If you previously registered your PRO-LINK® Ultra, the **Username** data entry box is pre-filled.

- 2 Touch within the **Password** data entry box.

The pop-up keyboard is displayed.

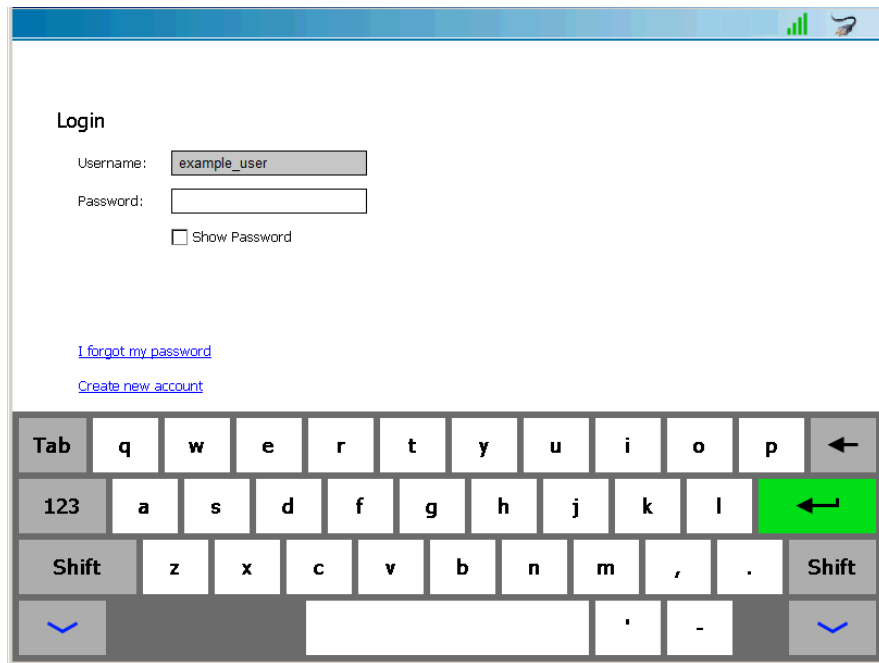


Figure 5.56 Keyboard

- 3 Use the keyboard to enter your password.


**NOTE:**


 You can check the **Show Password** check box to display the password as you enter it.

- 4 (optional) If you cannot remember your password, touch the **I forgot my password** link. Then, enter your Username in the data entry box, and touch **Reset**.

A temporary password is sent to the e-mail address associated with your user account. Enter the temporary password, and follow the on-screen prompts.

**NOTE:**

 To use the forgotten password feature, you must have an e-mail address associated with your user account.

- 5 Touch the **Down Arrow**  on the keyboard to hide the keyboard.  
The screen is displayed again.

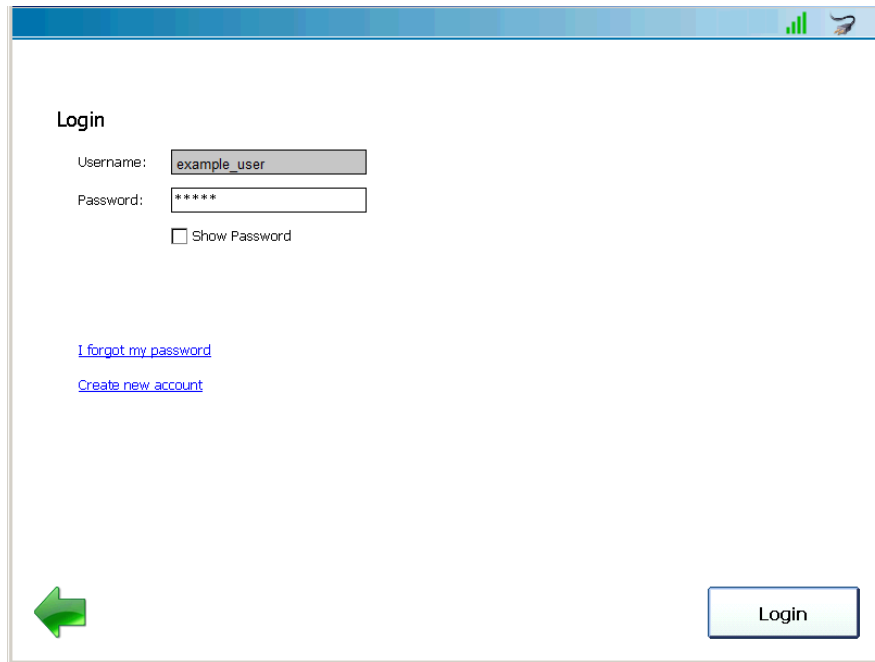


Figure 5.57 Login Screen Refreshed

- 6 Touch **Login**.



Once your information is validated, the **Update User Account** screen is displayed.

**Update User Account** \* required

Username:

\* Full Name:       \* Zip Code:

\* Address1:       \* Country:  ▾


Address2:

Company:

\* City:       \* Phone:

\* State:       Email:

Figure 5.58 Update User Account Screen

- 7 Review your contact information, and make any required changes.  
You can edit the contents of any of the data entry boxes, by touching within the box. Then use the pop-up keyboard to enter your changes.
- 8 Touch the **Down Arrow**  on the keyboard to hide the keyboard.
- 9 When you have finished making your changes, touch **Update**.

An update success message is displayed.

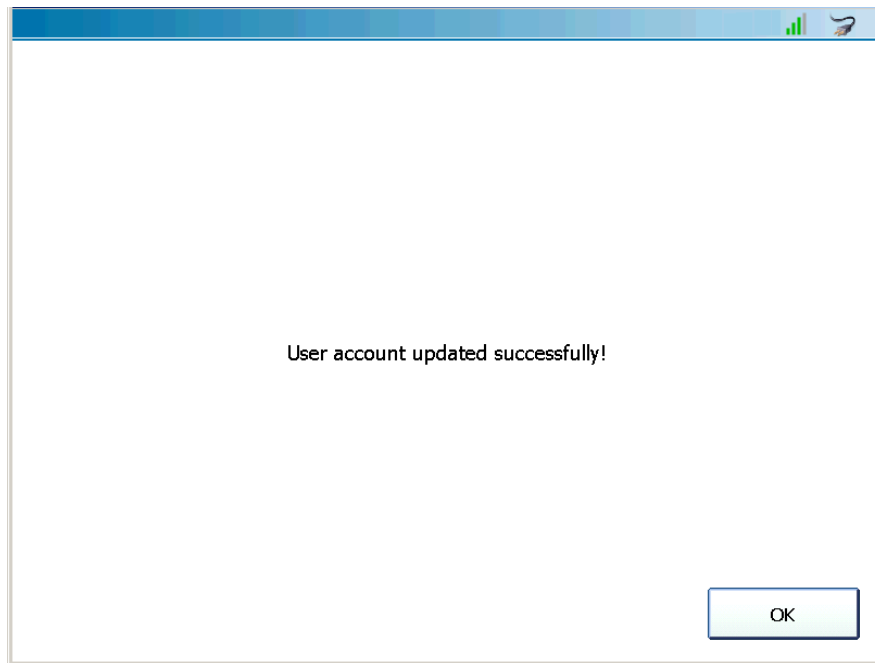


Figure 5.59 Update Success Message

10 Touch **OK**.

You are returned to the **Admin Menu** (Figure 5.54).

## Enabling Remote Access

The Remote Access feature enables Technical Support to connect to your PRO-LINK® Ultra remotely to assist you in resolving support issues. To contact Technical Support, call (800) 639-6774.

**NOTE:**



To use this feature, you must have Internet connectivity.

To enable Remote Access:

- 1 Select **Remote Access** from the Admin Menu (Figure 5.54).

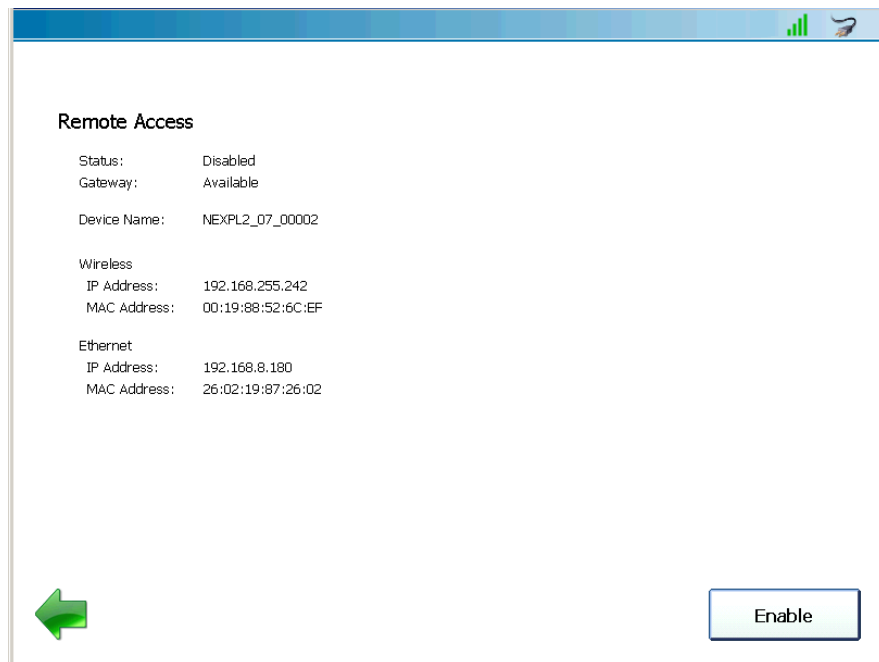


Figure 5.60 Remote Access Screen

- 2 Touch **Enable**.

**NOTE:**



Your Technical Support representative will connect to your PRO-LINK® Ultra to assist in resolving your support issue.



# Chapter 6

## Using PRO-LINK® Repair-Connect



- ▼ *PRO-LINK Repair-Connect Overview, page 178*
- ▼ *Logging In, page 179*
- ▼ *The DESCRIPTION Tab, page 185*
- ▼ *The TESTING Tab, page 187*
- ▼ *The SPECS Tab, page 191*
- ▼ *The WIRING/LOCATOR Tab, page 194*
- ▼ *The REMOVE & INSTALL Tab, page 199*

This chapter provides detailed instructions on using PRO-LINK® Repair-Connect to access troubleshooting information related to faults found during scanning. A subscription to PRO-LINK® Repair-Connect is required. Please contact your Snap-on dealer for details or to purchase a subscription.

**NOTE:**



---

Screen shots used throughout this manual are for illustrative purposes only. All data shown is fictitious in nature.

---

## PRO-LINK® Repair-Connect Overview

PRO-LINK® Repair-Connect anticipates the detailed information required to fix the vehicle and retrieves it in seconds. Service times are shortened because you don't have to manually look up repair information to complete the service correctly.

PRO-LINK® Repair-Connect provides access to diagnostic trouble code (DTC) - related service information, including the following:

- Trouble code descriptions
- Related wiring diagrams
- Component connector views
- Electrical component locator
- Testing procedures
- Removal and installation procedures
- DTC-related specifications

A subscription to PRO-LINK® Repair-Connect is required. Please contact your Snap-on dealer for details or to purchase a subscription.

### NOTE:



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If you already have a subscription to Mitchell 1 REPAIR-CONNECT.net®, you can use your existing Username and Password to log in to PRO-LINK® Repair-Connect.

---


The remainder of this chapter covers the following:

- Logging In (*pg. 179*)
- The DESCRIPTION Tab (*pg. 185*)
- The TESTING Tab (*pg. 187*)
- The SPECS Tab (*pg. 191*)
- The WIRING/LOCATOR Tab (*pg. 194*)
- The REMOVE & INSTALL Tab (*pg. 199*)

## Logging In

You access PRO-LINK® Repair-Connect from the FAULTS tab on the Diagnostics Menu. Once you have logged in, the PRO-LINK® Ultra remembers your login information so you won't have to enter it again.

### NOTE:

 If you already have a subscription to Mitchell 1 REPAIR-CONNECT.net®, you can use your existing Username and Password to log in to PRO-LINK® Repair-Connect.

### To log in:

- 1 Start from the **Diagnostics Menu** with the FAULTS tab activated.

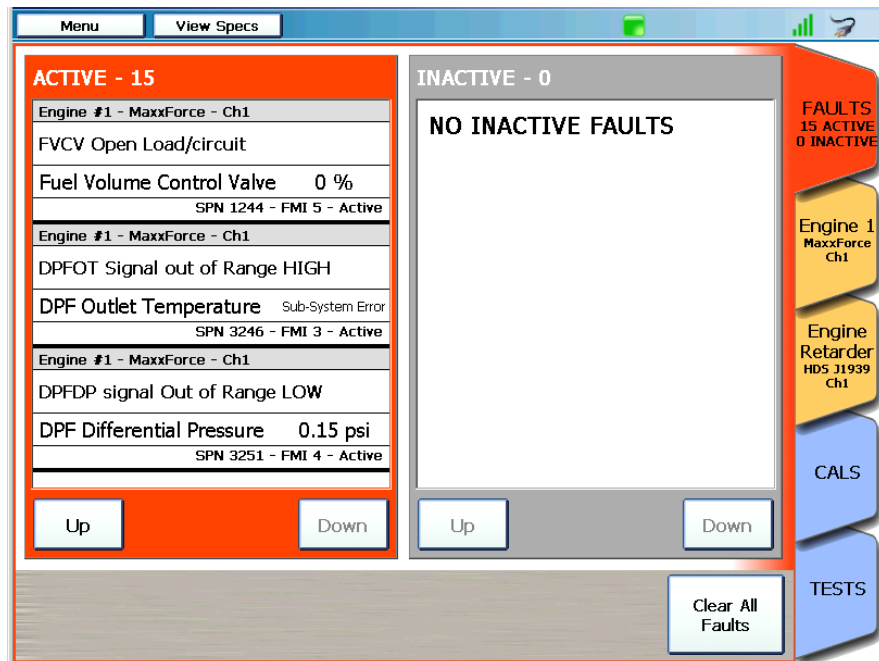


Figure 6.1 Diagnostics Menu

- 2 To view more information on a particular fault, touch the screen to select the fault you want to view (e.g., **DPFDP signal Out of Range LOW**).

The **More Info** screen is displayed.

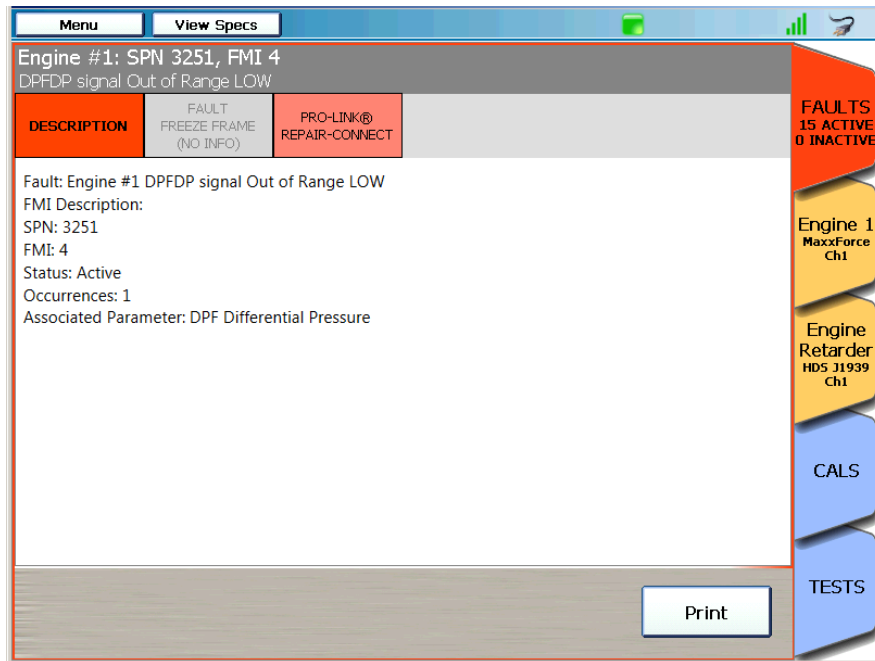


Figure 6.2 More Info Screen

- 3 Touch the **REPAIR-CONNECT** button at the top of the screen.

**NOTE:**



To return to the list of faults, touch the **FAULTS** tab.



The **Login** screen is displayed.

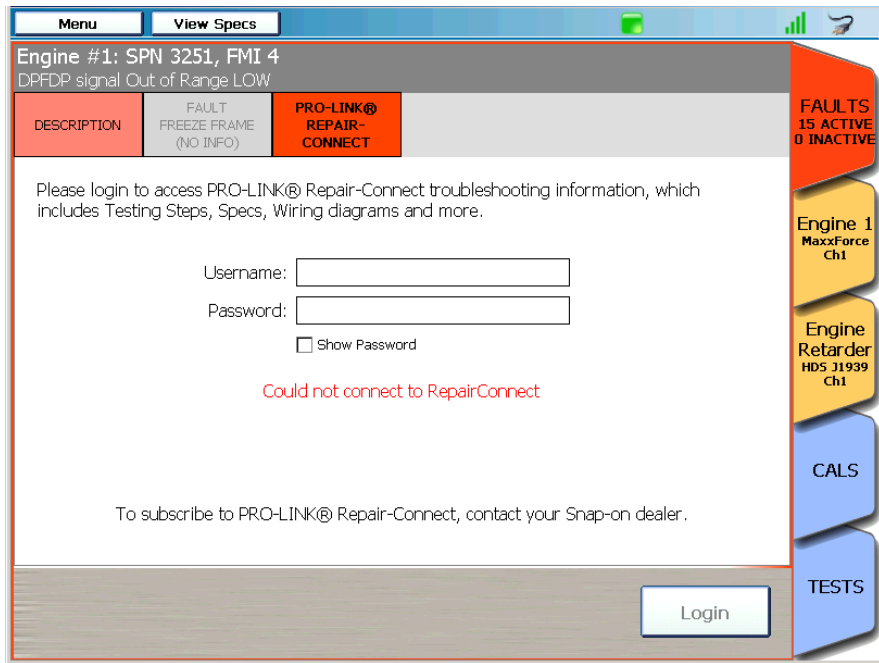


Figure 6.3 Login Screen

- 4 Touch within the **Username** data entry field.

The keyboard is displayed.

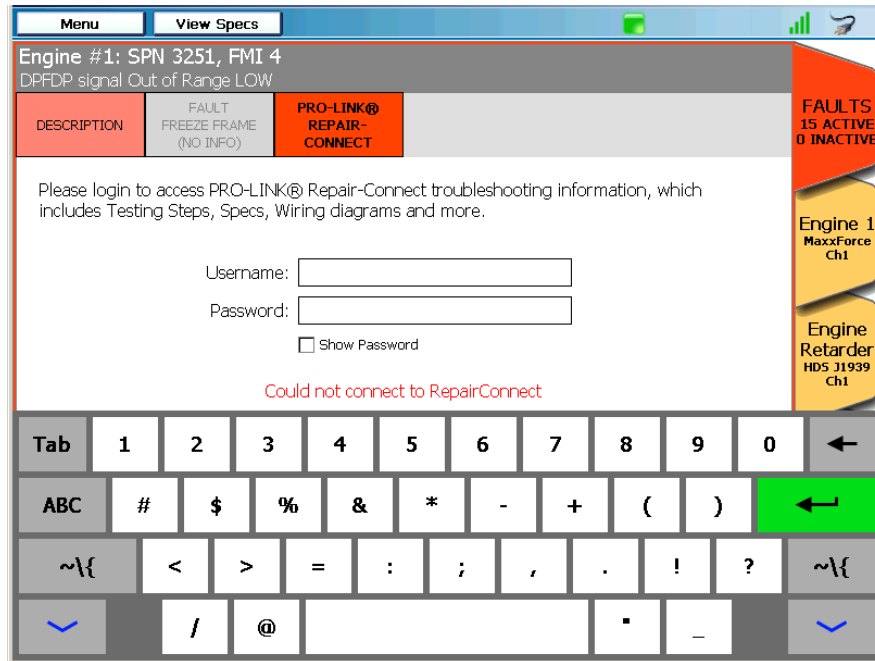



Figure 6.4 keyboard

- 5 Use the keyboard to enter your **Username**.
- 6 Touch within the **Password** data entry field.
- 7 Use the keyboard to enter your **Password**.
- 8 (optional) Touch the **Show Password** box to activate it (if you want to display your password in the data entry box so that you can read it).
- 9 Touch the **Down Arrow**  on the keyboard to hide the keyboard.
- 10 Touch **Login**.

Your information is validated and Repair-Connect loads the troubleshooting and repair information.

In the event that Repair-Connect cannot decode the VIN, the following screen is displayed.

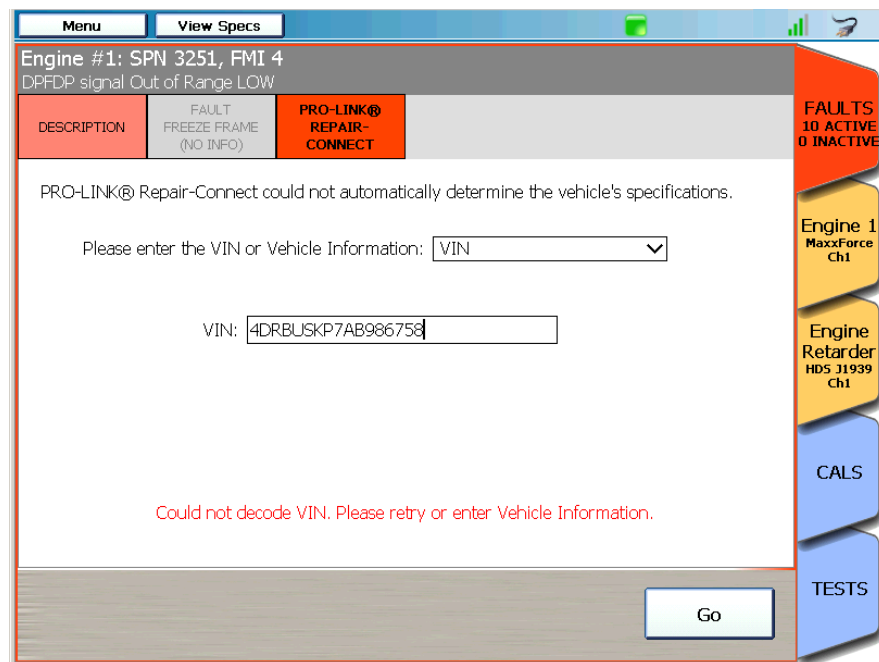



Figure 6.5 VIN Not Decoded Screen

- 11 Should you encounter this screen, obtain the VIN off the vehicle.
- 12 Touch within the **VIN** data entry field.  
The keyboard is displayed.
- 13 Use the keyboard to enter the correct VIN.
- 14 Touch the **Down Arrow**  on the keyboard to hide the keyboard.
- 15 Touch the **Go** button at the bottom of the screen to enter the VIN.

**NOTE:**



If for some reason you don't have the VIN, you can use the **Please enter the VIN or Vehicle Information** drop-down menu to select Vehicle Year, Vehicle Make, Vehicle Module, and Engine. When you have made your selections, touch the Go button to perform a manual vehicle lookup.

The **More Info** screen with Repair-Connect tabs is displayed.

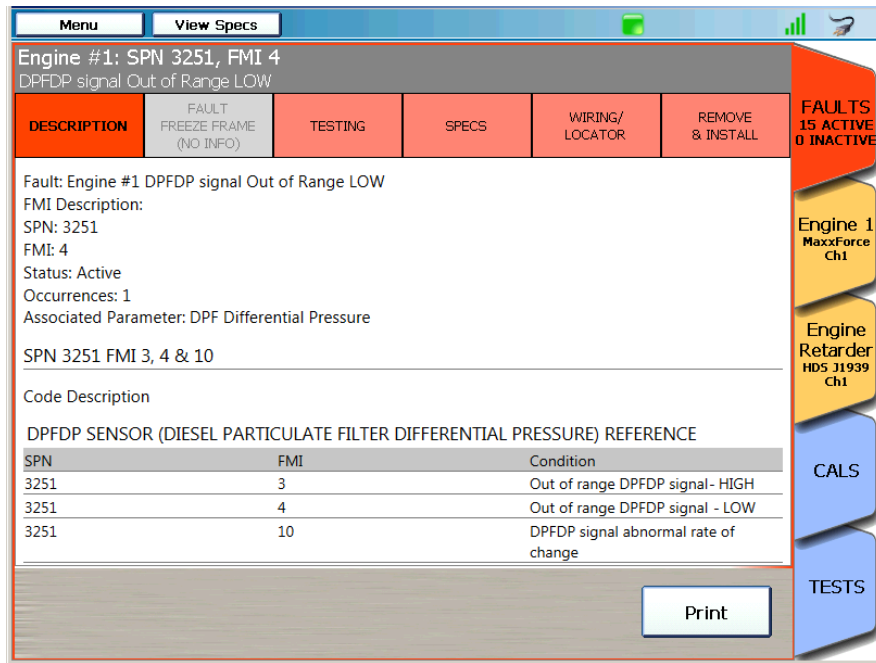


Figure 6.6 More Info Screen with Repair-Connect Tabs

Once you have successfully logged in to Repair-Connect, you are ready to start using it to look up additional troubleshooting information.

The **DESCRIPTION** tab is the currently active tab.

## The DESCRIPTION Tab

To use the DESCRIPTION tab:

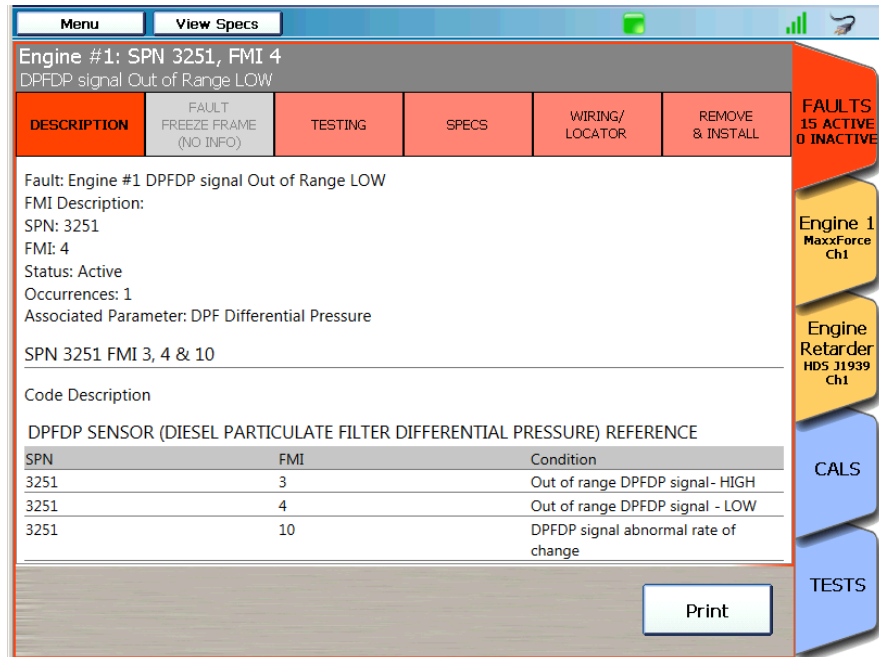


Figure 6.7 More Info Screen with Repair-Connect Tabs

Note that the code description has been expanded, providing additional information on the selected fault code.

**NOTE:**



To access Freeze Frame information, if available, touch the gray **FAULT FREEZE FRAME** tab.

- 1 Touch the screen and drag your finger up to move down in the page of information.

Additional information is revealed.

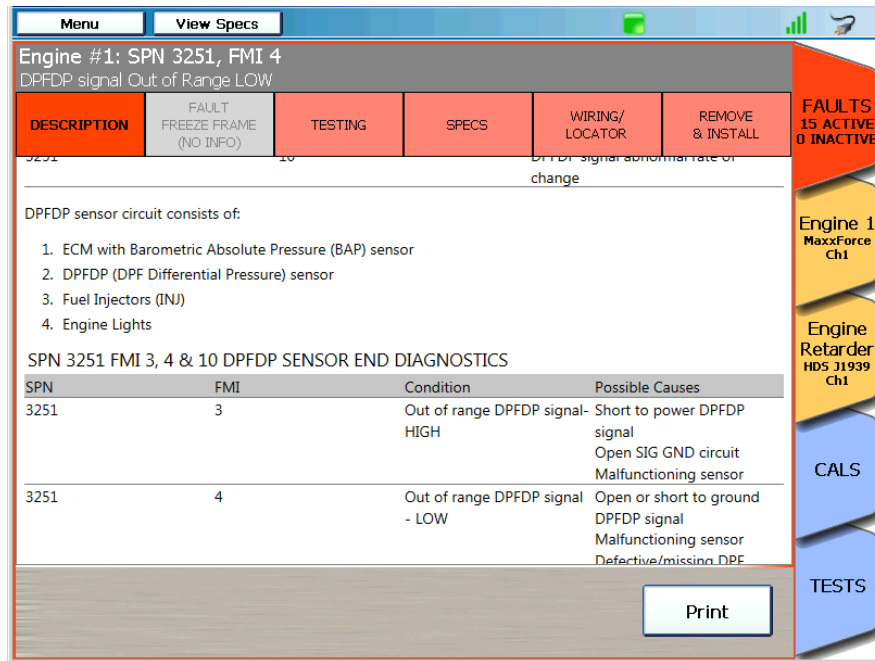


Figure 6.8 Result of Moving Down the Page

- 2 Continue scrolling down the page until you find the required information.
- 3 When you have finished reviewing the information, you can:
  - Touch the **Print** button to send the information to a printer.
  - Touch the red **FAULTS** tab to go back to the list of faults (Figure 6.1), and select a different fault to view the Repair-Connect information for that fault.
  - Select a different Repair-Connect tab (e.g., **TESTING**) to view testing information for the same currently selected fault.

## The TESTING Tab

To use the TESTING tab:

- 1 Touch the **TESTING** tab to view testing information specific to the currently selected fault.

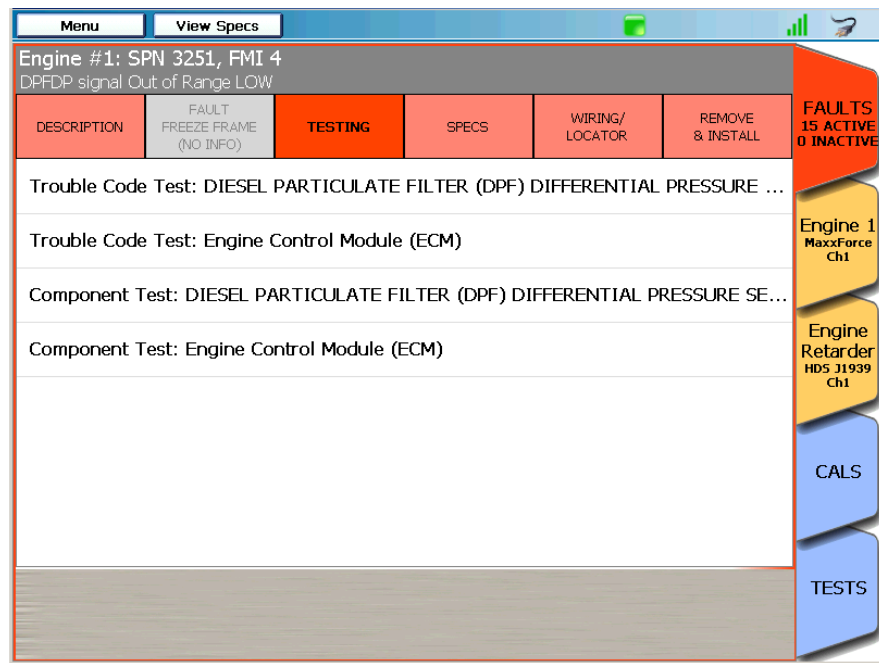


Figure 6.9 TESTING Tab Activated

- 2 Touch the screen to select the test you want to view (e.g., **Trouble Code Test: DIESELPARTICULATE FILTER (DPF) DIFFERENTIAL PRESSURE...**).

The information for the selected test is displayed.

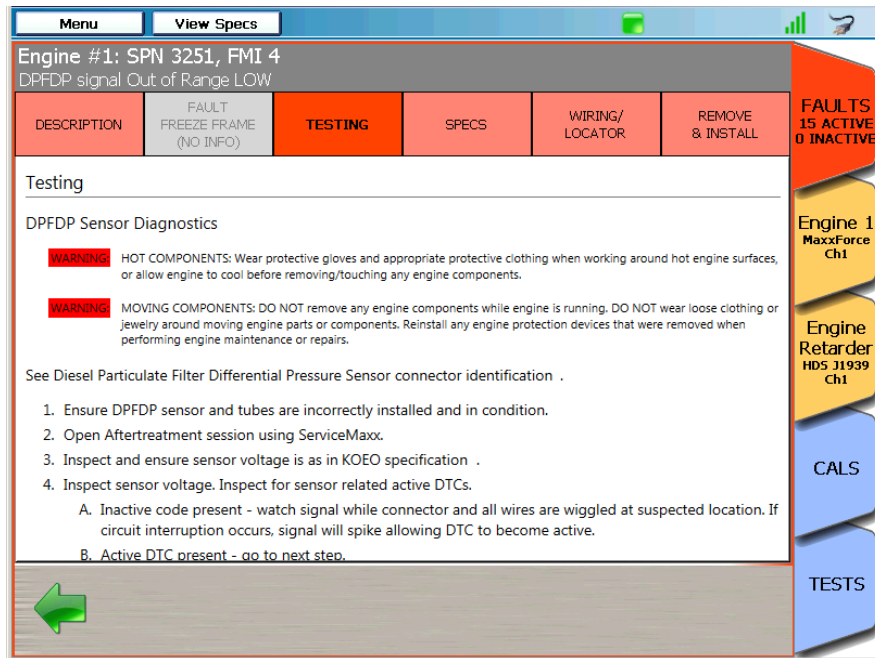


Figure 6.10 Information for a Specific Test

- 3 Touch the screen and drag your finger up to move down the page.



Additional information is revealed.

Engine #1: SPN 3251, FMI 4  
DPFD signal Out of Range LOW

DESCRIPTION	FAULT FREEZE FRAME (NO INFO)	TESTING	SPECS	WIRING/ LOCATOR	REMOVE & INSTALL												
<p>Sensor Circuit Inspection</p> <p>With sensor breakout harness 4761A connected, sensor disconnected, ignition ON, inspect if correct DTC goes active (use EST with ServiceMaxx software) when corresponding fault is induced. Measure circuits using Digital Multimeter.</p> <p>DPFD SENSOR CIRCUIT TEST REFERENCE</p> <table border="1"> <thead> <tr> <th>Test Point</th> <th>Specifications</th> <th>Comments</th> </tr> </thead> <tbody> <tr> <td>EST - Inspect DTC</td> <td>SPN 3251 FMI 3</td> <td>SPN 3251 and FMI 4 active - inspect DPFD signal for short to PWR.</td> </tr> <tr> <td>DMM - Measure voltage 3 to ground</td> <td>5 ± 0.5 Volts</td> <td>More than 5.5 Volts - inspect VREF for short to PWR. Less than 4.5 Volts - inspect VREF for Open/short to ground. Inspect <a href="#">DPFD SENSOR HARNESS RESISTANCE</a>.</td> </tr> <tr> <td>EST - Inspect DTC Short breakout harness across 2 and 3</td> <td>SPN 3251 FMI 4</td> <td>SPN 3251 and FMI 3 active - inspect DPFD signal for Open. Inspect <a href="#">DPFD SENSOR HARNESS RESISTANCE</a>.</td> </tr> </tbody> </table>						Test Point	Specifications	Comments	EST - Inspect DTC	SPN 3251 FMI 3	SPN 3251 and FMI 4 active - inspect DPFD signal for short to PWR.	DMM - Measure voltage 3 to ground	5 ± 0.5 Volts	More than 5.5 Volts - inspect VREF for short to PWR. Less than 4.5 Volts - inspect VREF for Open/short to ground. Inspect <a href="#">DPFD SENSOR HARNESS RESISTANCE</a> .	EST - Inspect DTC Short breakout harness across 2 and 3	SPN 3251 FMI 4	SPN 3251 and FMI 3 active - inspect DPFD signal for Open. Inspect <a href="#">DPFD SENSOR HARNESS RESISTANCE</a> .
Test Point	Specifications	Comments															
EST - Inspect DTC	SPN 3251 FMI 3	SPN 3251 and FMI 4 active - inspect DPFD signal for short to PWR.															
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EST - Inspect DTC Short breakout harness across 2 and 3	SPN 3251 FMI 4	SPN 3251 and FMI 3 active - inspect DPFD signal for Open. Inspect <a href="#">DPFD SENSOR HARNESS RESISTANCE</a> .															

Figure 6.11 Additional Test Information Revealed

- 4 Touch the internal hyper-link (e.g., **DPFD SENSOR HARNESS RESISTANCE**).

Touching the hyper-link jumps you down the page to the specific information.

The **DPFDP SENSOR HARNESS RESISTANCE INSPECTION** information is displayed.

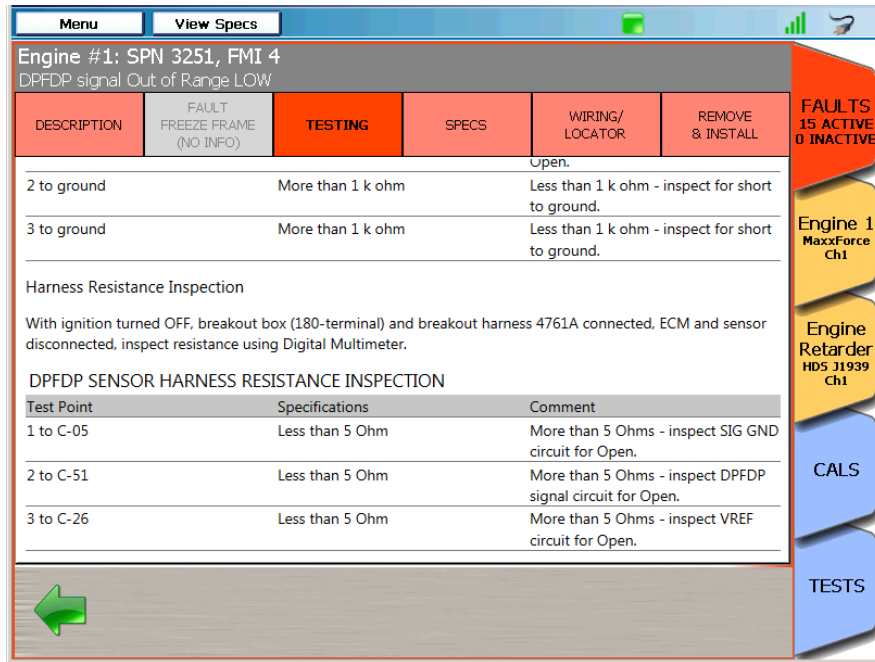


Figure 6.12 DPFDP SENSOR HARNESS RESISTANCE INSPECTION

- 5 When you have finished viewing the information for this test, you can:
  - Touch the green **Back Arrow** to go back to the list of tests (Figure 6.9).
  - Touch the **FAULTS** tab to go back to the list of faults (Figure 6.1).
  - Select another Repair-Connect tab to view more information about the currently selected fault.

## The SPECS Tab

To use the SPECS tab:

- 1 Touch the red **FAULTS** tab to go back to the list of faults.

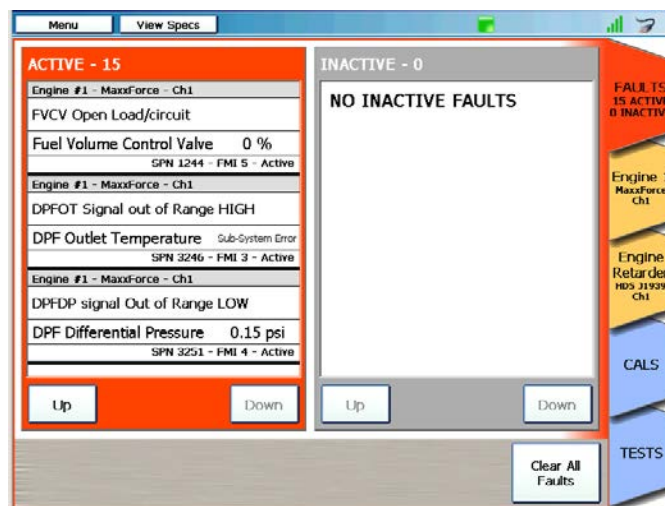


Figure 6.13 Diagnostics Menu

- 2 Use the **Up** button to move up the list of faults.

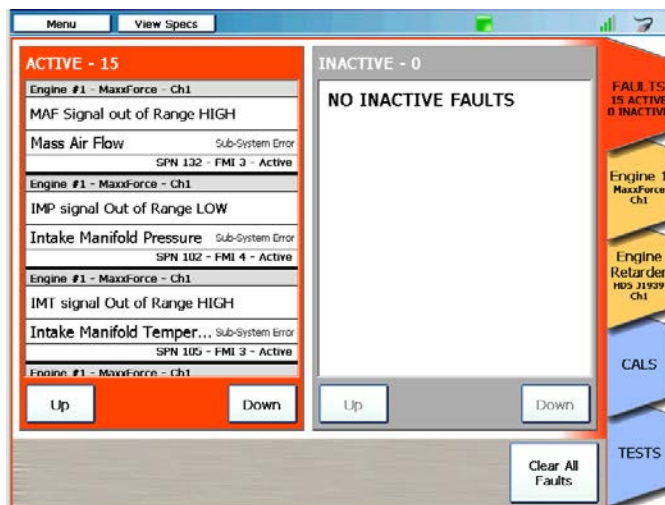


Figure 6.14 Further Down the List of Faults

- 3 Select a different fault (e.g., **MAF Signal out of Range HIGH**).

The **DESCRIPTION** tab is activated for the selected fault.

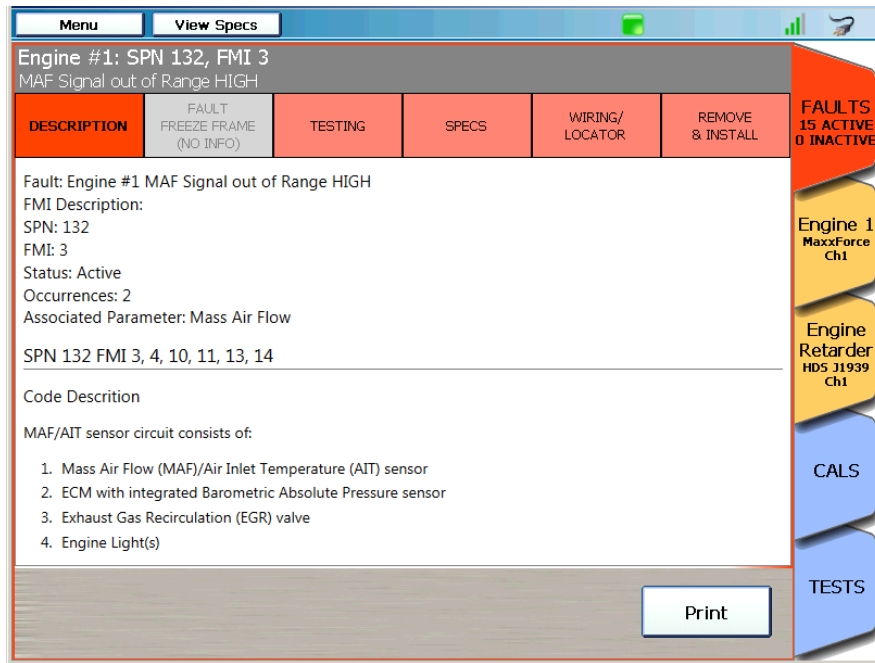


Figure 6.15 DESCRIPTION Tab Activated

- 4 Touch the **SPECS** tab to view specifications for the selected fault (i.e., MAF Signal out of range HIGH).

The **SPECS** tab is activated.

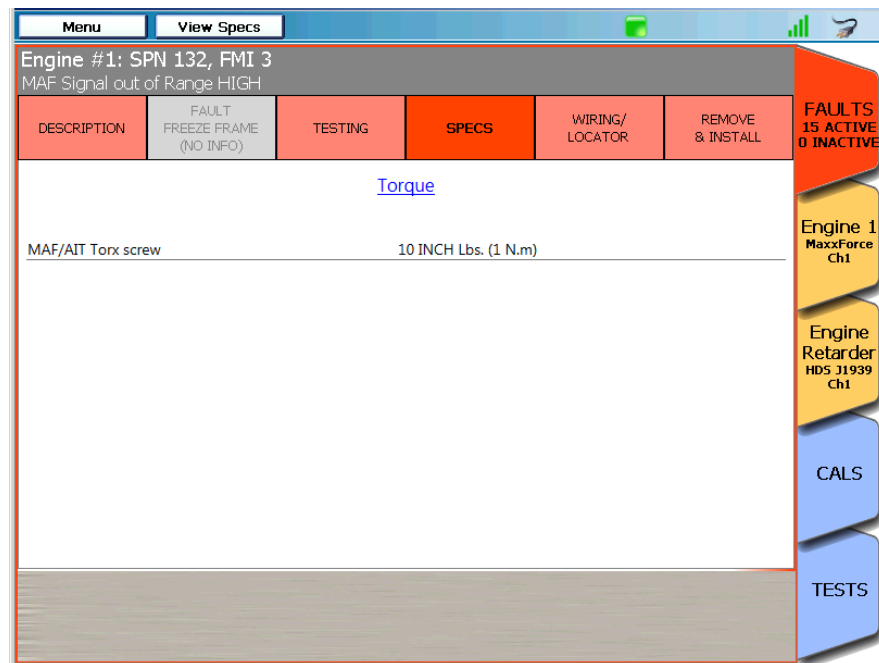


Figure 6.16 SPECS Tab Activated

- 5 When you have finished viewing the information, you can:
  - Touch the **FAULTS** tab to go back to the list of faults (Figure 6.1).
  - Select another Repair-Connect tab to view more information about the currently selected fault.

## The WIRING/LOCATOR Tab

The WIRING/LOCATOR tab can be useful if you want to see a wiring diagram or a diagram/photograph showing the location of the component in question (e.g., a sensor).

To use the WIRING/LOCATOR tab:

- 1 Touch the **WIRING/LOCATOR** tab to view specifications related to the currently selected fault.

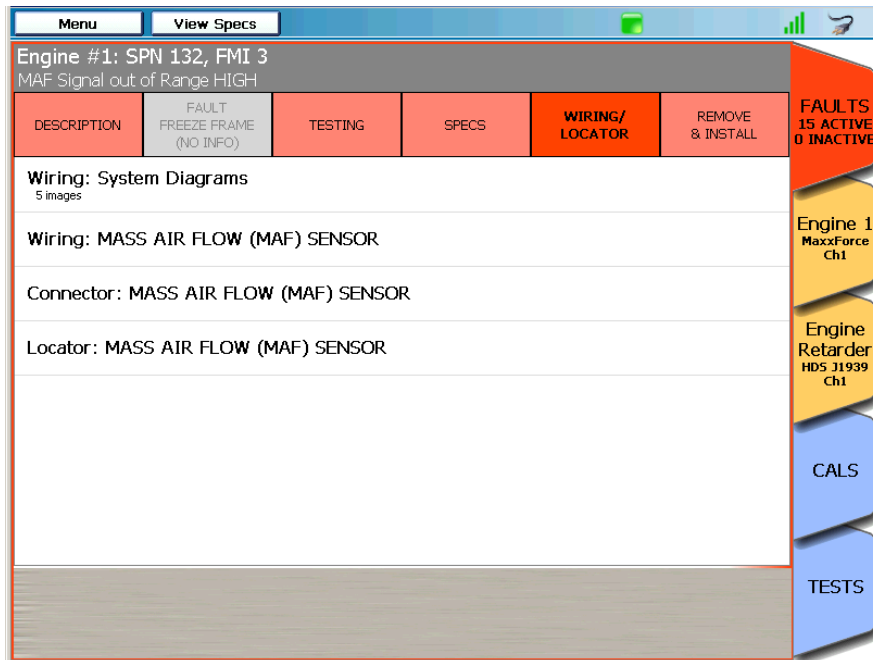


Figure 6.17 WIRING/LOCATOR Tab Activated

- 2 Touch the screen to select one of the wiring diagrams from the list (e.g., **Wiring: MASS AIR FLOW (MAF) SENSOR**).

The selected wiring diagram is displayed.

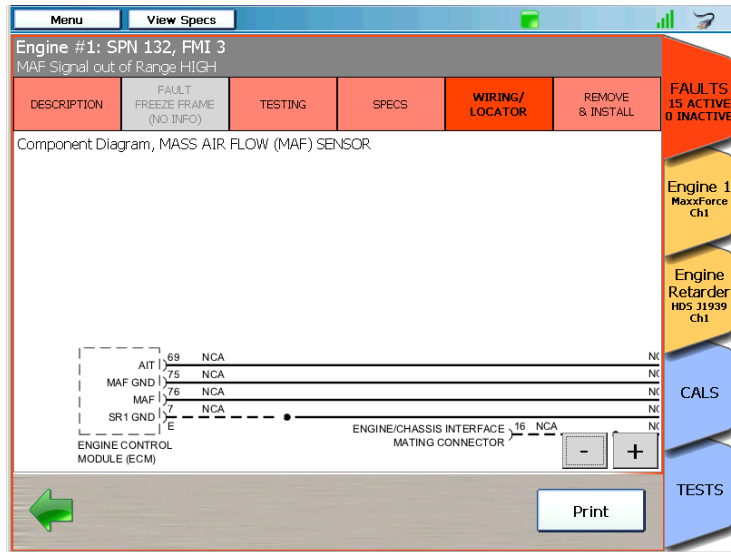


Figure 6.18 Wiring Diagram

- Use the minus (-) sign button to zoom out (i.e., make the image smaller).

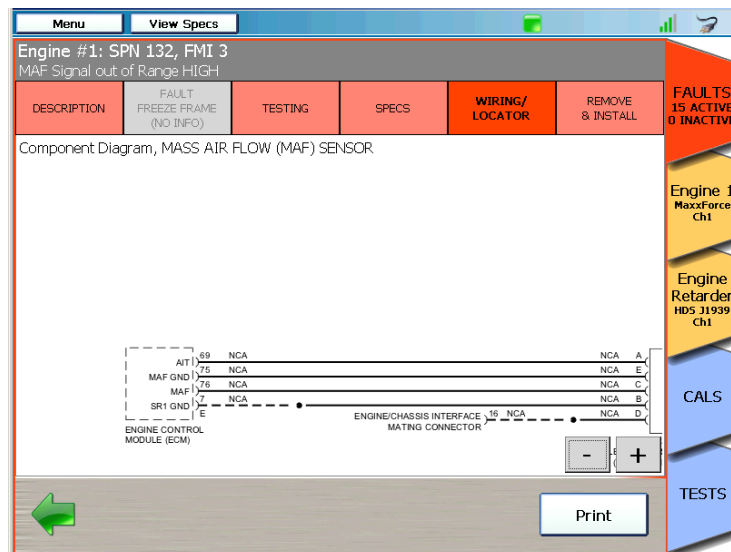


Figure 6.19 Zoomed Image

- Touch and drag to position the diagram in the center of the screen.

The image is now in the center of the screen.

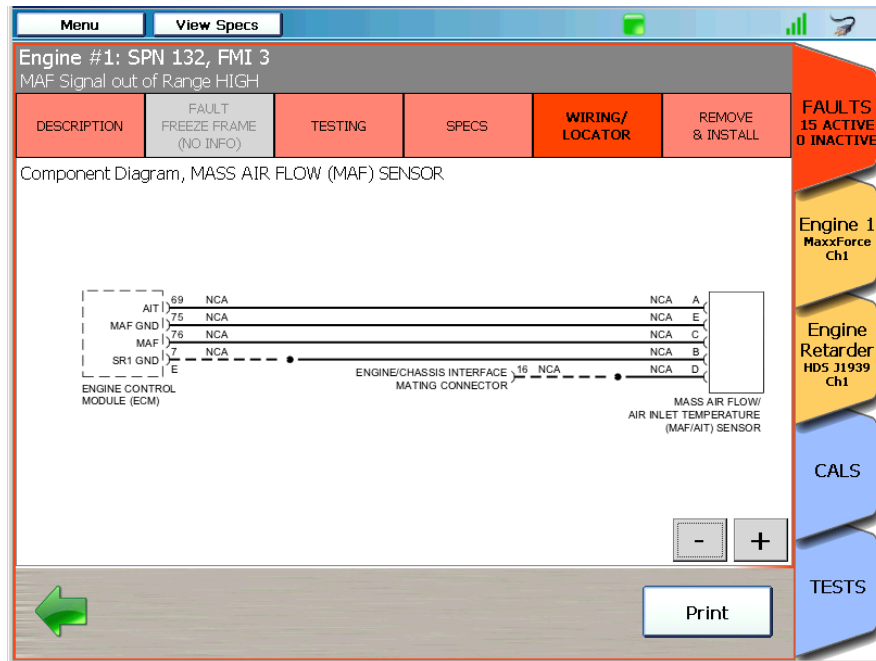


Figure 6.20 Diagram Centered on the Screen

**NOTE:**

**i** It can be helpful (especially with large and complex wiring diagrams) to position the image in the center of the screen prior to printing it as only the current screen view will print. To do so, touch the screen and drag your finger to position the image.

- 5 (optional) Touch **Print** to send the current screen view to the printer.
- 6 Use the green **Back Arrow** to return to the list of wiring diagrams.



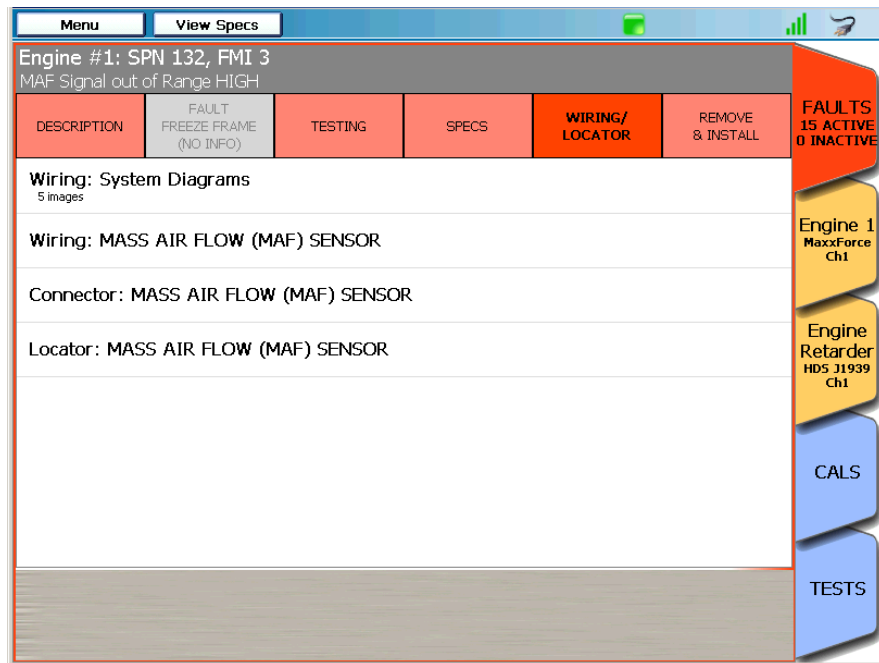


Figure 6.21 WIRING/LOCATOR Tab Activated

- 7 Touch the screen to select **Locator: MASS AIR FLOW (MAF) SENSOR** to view a diagram/photograph of the sensor.

The diagram/photograph is displayed.

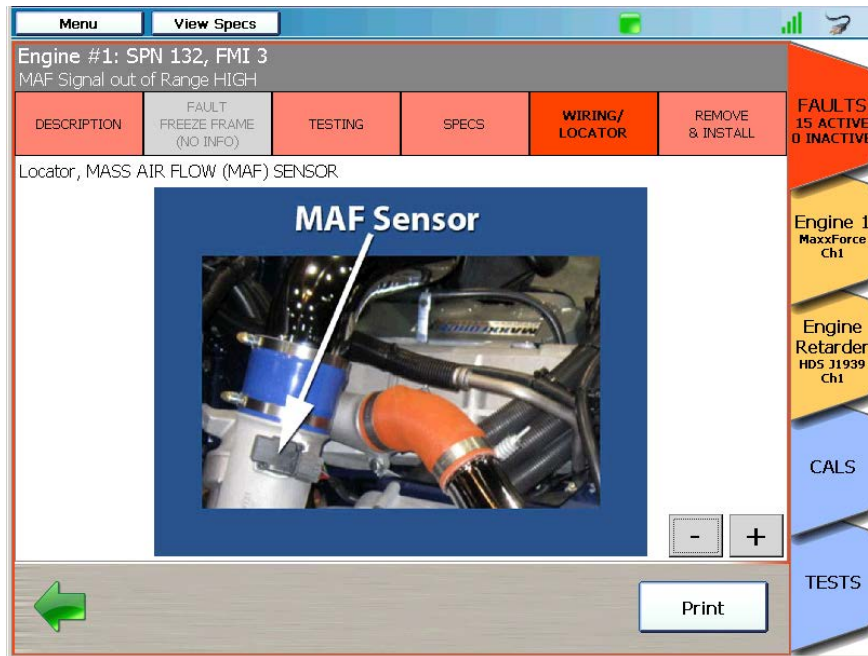


Figure 6.22 Locator Diagram/Photograph

- 8 Use the **plus (+)** and **minus (-)** sign buttons to zoom in and out.
- 9 (optional) Touch **Print** to send the current screen view to a printer.
- 10 At this point you can:
  - Use the green **Back Arrow** to return to the list of wiring diagrams (Figure 6.21).
  - Touch the **FAULTS** tab to go back to the list of faults (Figure 6.1).
  - Select another Repair-Connect tab to view more information about the currently selected fault.

## The REMOVE & INSTALL Tab

The REMOVE & INSTALL tab provides access to removal and installation procedures.

To use the REMOVE & INSTALL tab:

- 1 Touch the **REMOVE & INSTALL** tab to view specifications related to the currently selected fault.

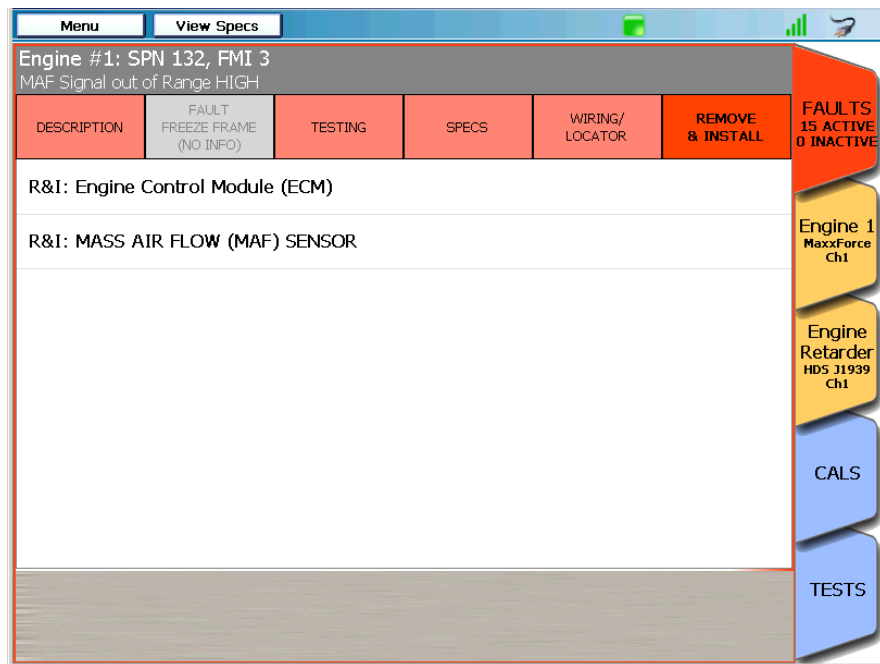


Figure 6.23 REMOVE & INSTALL Tab Activated

- 2 Touch the screen to select **R&I: MASS AIR FLOW (MAF) SENSOR**.

The removal and installation instructions are displayed.

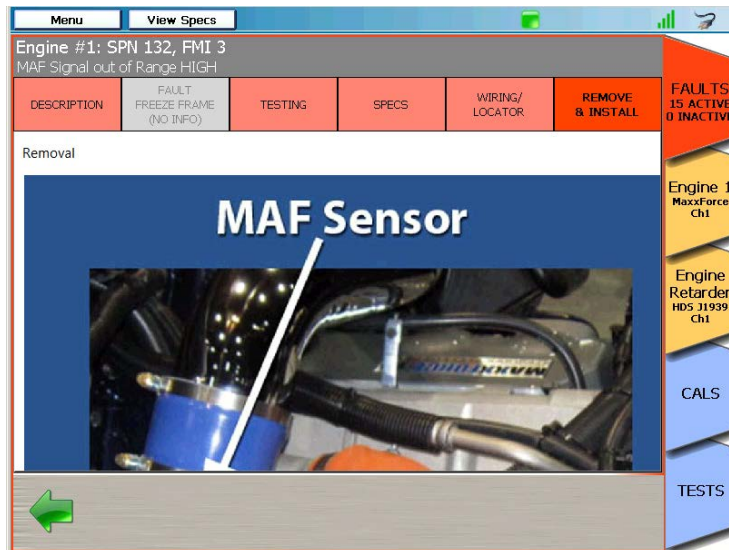


Figure 6.24 Sample Removal Instructions

- 3 Touch and drag your finger up to move down the instruction.

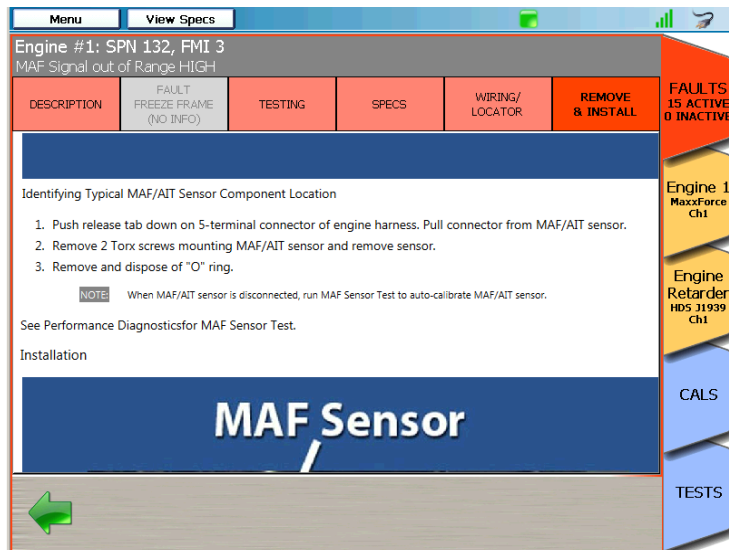


Figure 6.25 Sample Additional Information

- 4 Use the green **Back Arrow** to go back to the list of instructions (Figure 6.23).

5 At this point you can:

- Touch the **FAULTS** tab to go back to the list of faults (Figure 6.1).
- Select another Repair-Connect tab to view more information about the currently selected fault.

# Chapter 7

## Utilities



- ▼ *Utilities Overview, page 204*
- ▼ *Record Mode, page 205*
- ▼ *Playback Mode, page 211*

This chapter provides information on using PRO-LINK® Ultra utility features Record Mode and Playback Mode.

**NOTE:**



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Screen shots used throughout this manual are for illustrative purposes only. All data shown is fictitious in nature.

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## Utilities Overview

The PRO-LINK® Ultra has a number of utilities that can be useful when used in conjunction with Quick Lists (for comparing parameters from different parameter categories or different modules). They include:

- Record Mode (pg. 205)
- Playback Mode (pg. 211)

**NOTE:**



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For information on creating reports, setting up a printer, or printing a report, refer to the following topics in this manual:

—“Creating a Report” in *Chapter 4: Using the Diagnostics Menu*.

—“Managing Printers” in *Chapter 5: Using the Admin Menu*.

—“Managing Saved Reports” in *Chapter 5: Using the Admin Menu*.

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## Record Mode

You can record live vehicle data manually for playback at a later time. When you record off the PRO-LINK® Ultra, you are creating a file containing parameter information taken from a live connection—a recording taken on a particular date and for a particular vehicle identification number (VIN).

You can save *only one* recording file at a time. If you begin a new recording and the previous recording still exists, the PRO-LINK® Ultra asks you if you want to record *over* the previously saved recording file.

The Record Mode button is on each individual PARAMETERS tab screen. Record Mode can assist you in diagnosing vehicles with intermittent problems, as you can quickly refer back to the recording to help diagnose problems.

To launch Record Mode:

- 1 Start on the **PARAMETERS** tab:

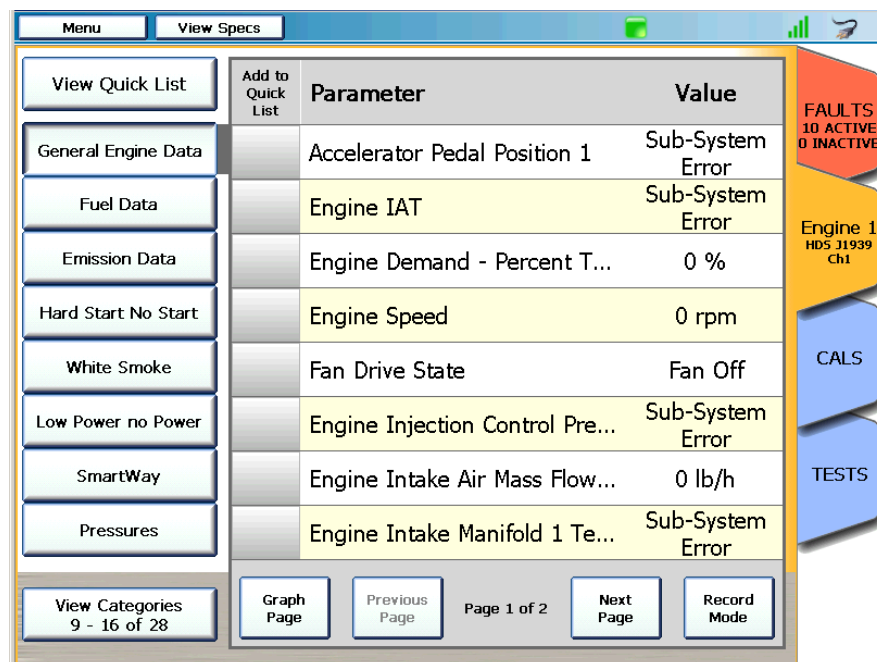


Figure 7.1 List of Parameters

- 2 Touch the **Record Mode** button to create a recording of all the available parameters for the current diagnostic session.



The **Record Mode** screen is displayed.

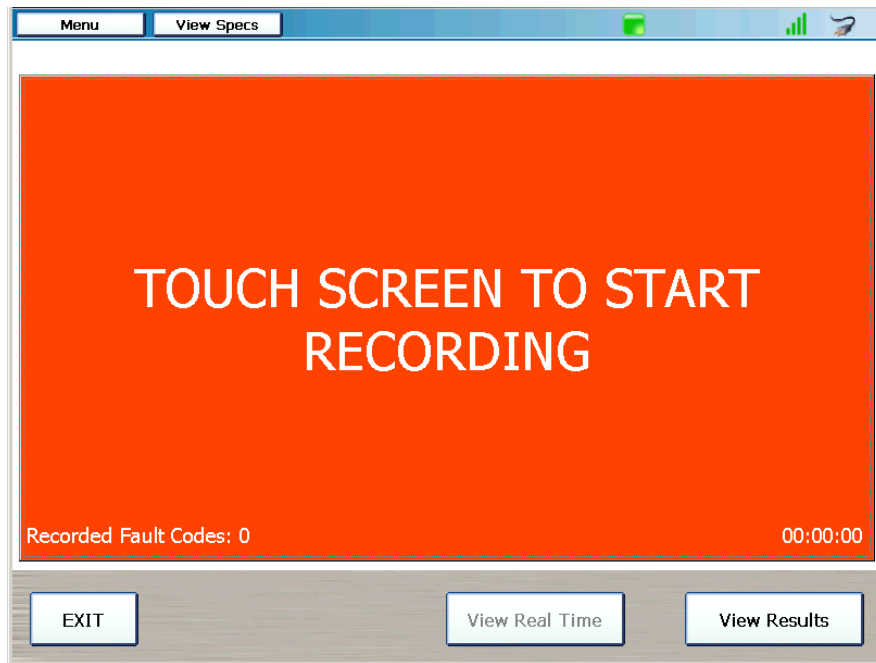


Figure 7.2 Record Mode Screen

- 3 Touch the screen to start recording.

If a previous recording file exists, the following screen is displayed.

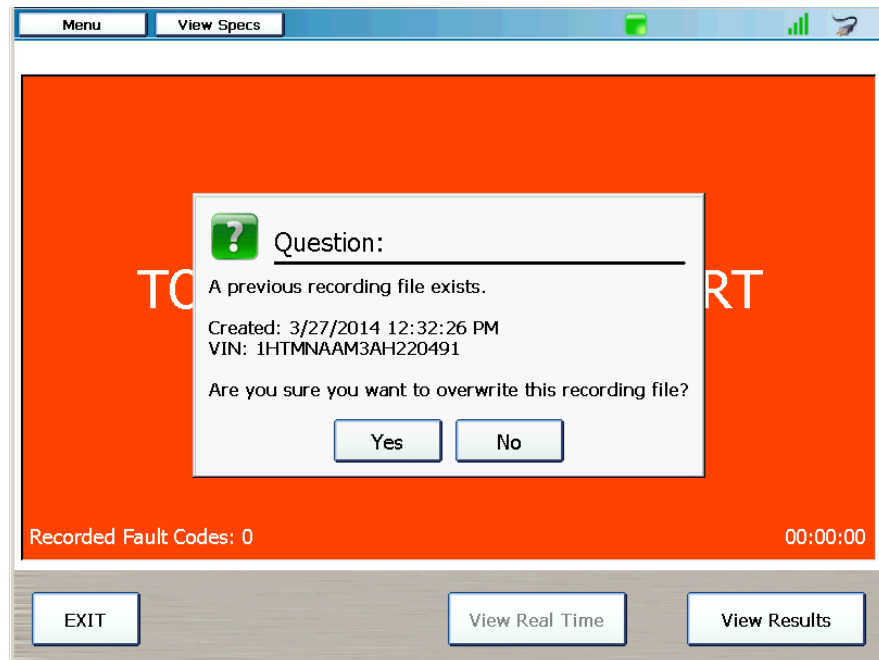


Figure 7.3 Overwrite Existing File Question

- 4 Touch **Yes** to overwrite the previous recording and start a new one.

The red screen message changes to “Touch Screen to Take Bookmark.”

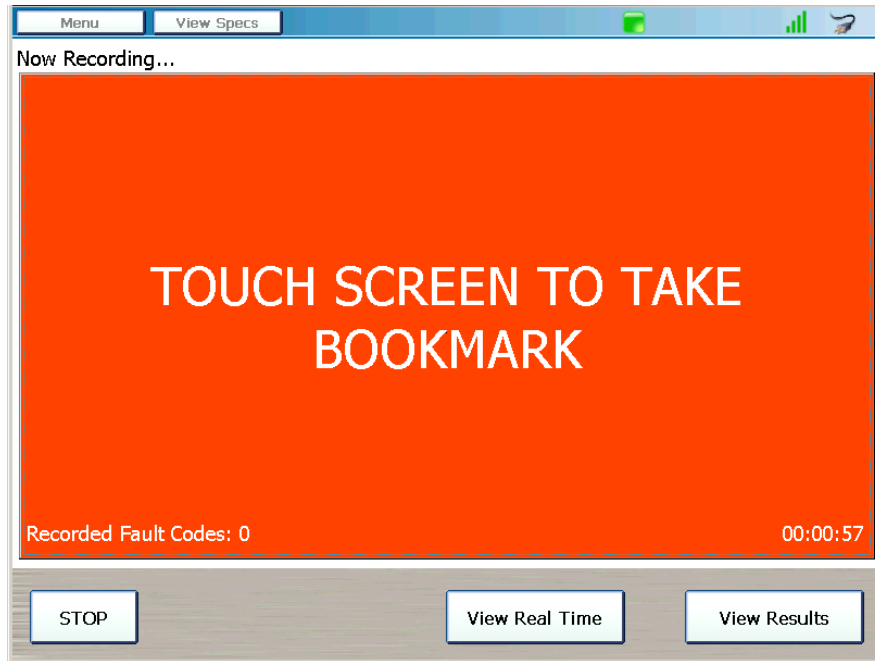



Figure 7.4 Now Recording Screen

**NOTE:**

 A bookmark is a “place holder” in the recording file where you will be able to jump to while in Playback Mode. The message “Bookmark Taken” is displayed briefly a bookmark is created.

For information on Playback Mode, refer to *Playback Mode*, next in this chapter.

- 5 Touch one of the three buttons at the bottom of the screen (see the table on the next page for a description of what each of the buttons does).

These buttons are on the **Now Recording** screen (Figure 7.4).

Button	What it does
STOP	<ul style="list-style-type: none"> <li>• Ends a recording (you need to confirm that you want the recording to end).</li> <li>• Returns you to the Record Mode screen (Figure 7.2).</li> <li>• Changes to EXIT once you stop the recording; the EXIT button takes you back to the list of parameters (Figure 7.1).</li> </ul>
View Real Time	<ul style="list-style-type: none"> <li>• <b>Warning:</b> Not recommended if you are operating the vehicle.</li> <li>• Enables you to view a graph of the selected parameters while the recording file as it is being recorded. You can take a bookmark in Real Time.</li> </ul> <p>A number of buttons are available:</p> <ul style="list-style-type: none"> <li>• <b>Change Parameters</b>—takes you to the Select a Category screen. This gives you the ability to change both the category of parameters and/or the parameters you want to view. You can also create a Quick List and view playback for only the parameters on the list. Touch <b>View Results</b> to return to return to the Real Time view.</li> </ul> <p><b>Note:</b> All parameters are being recorded even though they are not currently viewed.</p> <ul style="list-style-type: none"> <li>• Green <b>Back Arrow</b>—takes you back to the Record Mode screen (the recording is still in progress).</li> </ul>
View Results	<ul style="list-style-type: none"> <li>• Enables you to review in Playback Mode the recording you created.</li> <li>• You must confirm that you want to stop the recording prior to viewing results.</li> </ul> <p>A number of buttons are available:</p> <ul style="list-style-type: none"> <li>• <b>Rewind</b>—enables you to rewind to the start of the recording.</li> <li>• <b>Play</b>—starts the recording. Changes to the <b>Pause</b> button once the playback begins.</li> <li>• <b>Previous Bookmark</b> and <b>Next Bookmark</b>—enable you to jump from one bookmark to the next.</li> <li>• <b>EXIT</b>—takes you back to the Record Mode screen (Figure 7.2).</li> </ul>

- 6 Touch **STOP** to stop recording.

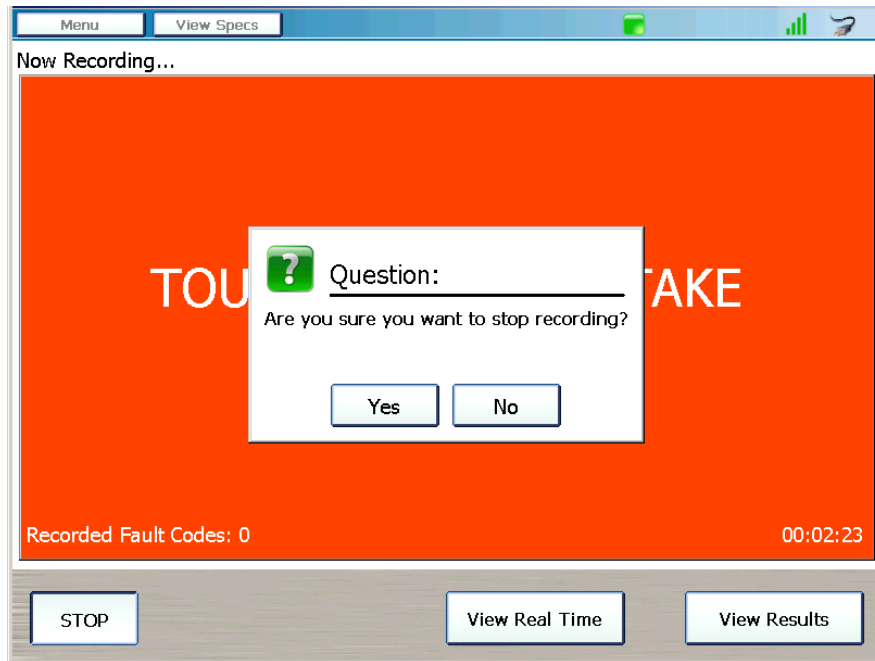


Figure 7.5 Are you sure? Message

- 7 Touch **Yes** to confirm that you want to stop recording.  
The **Record Mode** screen is displayed (Figure 7.2).
- 8 Touch **EXIT** to return to the list of parameters (Figure 7.1).

## Playback Mode

Playback Mode can be accessed in two ways:

- By touching the **Play Recording** button on the Main Menu.
- By touching the **View Results** button on the Record Mode screen (Figure 7.2).

The recording file plays back at a rate which simulates the rate at which it originally came from the vehicle bus.

### NOTE:



For information on accessing Playback Mode from Record Mode, refer to *Record Mode* on page 205 and the table on page 209.

To play back a existing recording:

- 1 Start at the **Main Menu**.

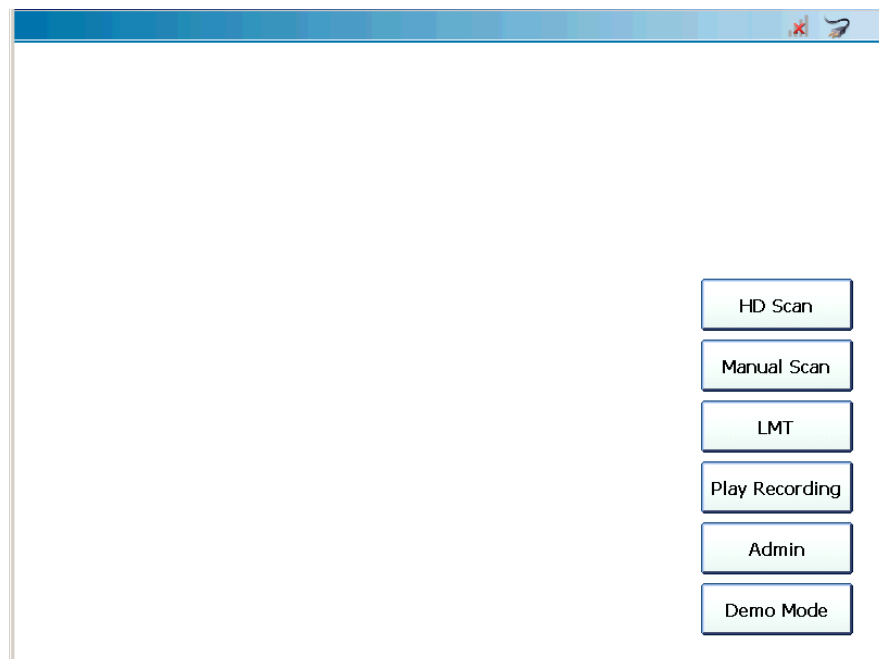


Figure 7.6 Main Menu

- 2 Select **Play Recording**.

The **Playback Mode** screen is displayed.

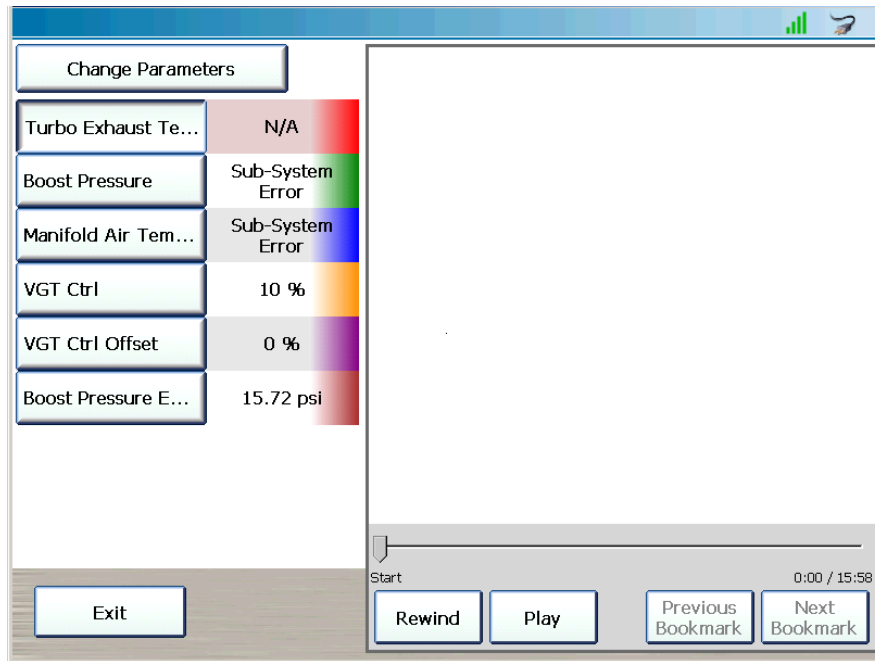


Figure 7.7 Playback Mode Screen

The PRO-LINK<sup>®</sup> Ultra keeps you current on the progress of the playback session. You use the following buttons to:

- **Change Parameters**—go to the Select a Category screen.  
This gives you the ability to change both the category of parameters and/or the parameters you want to view. You can also create a Quick List and view playback for only the parameters on the Quick List.  
Touch **View Results** to return to the Playback Mode screen (Figure 7.7).
  - **Exit**—go back to the Main Menu (Figure 7.6).
  - **Rewind**—rewind to the start of the recording.
  - **Play**—start the recording; changes to the **Pause** button once the playback begins.
  - **Previous Bookmark**—jump back to the previous bookmark.
  - **Next Bookmark**—jump forward to the next bookmark.
- 3 When you are finished playing the recording, touch **Exit** to go back to the Main Menu (Figure 7.6).