

PRO-LINK[®] EDGE

EEHD959001



HARDWARE AND SOFTWARE USER'S MANUAL



PRO-LINK® Edge Hardware and Software User's Manual

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Chapter 1

Using this Manual



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

 $T \mbox{his chapter provides an overview of this manual's organization and the conventions used throughout.$

NOTE:

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[®] Edge. 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 manual.
- Chapter 2: Hardware and User Interface Overview—provides an overview of the PRO-LINK[®] Edge hardware, including detailed product specifications. It also includes an overview of the PRO-LINK[®] Edge user interface and navigational features.
- Chapter 3: Getting Started—explains the process of connecting the PRO-LINK[®] Edge to a vehicle and scanning the vehicle for faults. It also includes an introduction to the various tabs on the Diagnostic Menu, as well as information on monitoring battery power.
- Chapter 4: Using the Diagnostics Menu—provides detailed instructions on using the Diagnostics Menu when the *PRO-LINK*[®] Edge is connected to a vehicle, including its various tabs and features.
- Chapter 5: Using the Vehicle History Menu—provides detailed instructions for using the Vehicle History Menu to manage reports.
- Chapter 6: Using the Settings Menu—provides detailed instructions for using the features of the PRO-LINK[®] Edge Settings Menu.
- Chapter 7: Using the Applications Menu—provides an overview of the Applications Menu. It also provides detailed instructions for registering applications and for installing updates.
- Chapter 8: Using the Support Menu—provides an overview of the Support Menu, including account information, tutorials, and troubleshooting information.
- Chapter 9: Using Record and Playback—provides information on using the Record and Playback utilities.
- Chapter 10: Using PRO-LINK[®] Repair-Connect—provides detailed instructions for using the features of PRO-LINK[®] Repair-Connect. A subscription to Repair-Connect is required.

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:

 \mathbb{N} 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:



 \setminus 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:

 \sim 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[®] Edge 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 Main Menu select Vehicle Scan ► HD Scan (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 9
 - ▼ Battery Service, page 13
- ▼ User Interface Overview, page 17
 - ▼ The Main Menu, page 17
 - 🔻 Vehicle Scan, page 22
 - ▼ The Vehicle History Menu, page 25
 - ▼ The Settings Menu, page 26
 - ▼ The Applications Menu, page 27
 - ▼ The Support Menu, page 28
 - Navigational Features, page 29
 - ▼ Screen Icons, page 29

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

NOTE:

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

Component Checklist

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

- ✓ PRO-LINK[®] Edge Scan Tool
- ✓ 10.8 V Li-ion Battery
- ✓ AC/DC Adapter
- ✓ Data Cable
- ✓ 6-pin Deutsch Adapter
- ✓ 9-pin Deutsch Adapter (non-locking)
- ✓ 16-pin J1962 Adapter
- ✓ PRO-LINK[®] Edge HDS Start Kit Software
- ✓ PRO-LINK[®] Edge Carrying Case

NOTE:

The HDS Starter Kit Software is registered automatically when you start using your device. No product key is required. The trifold includes instructions for registering additional software titles and for registering the PRO-LINK[®] Edge.

NOTE:

You don't need to Register the **Installed Applications** to start using PRO-LINK® Edge. You have 10 free trials for each application. During the free trial period, you have access to both fault code information and vehicle data.

NOTE:

For access to Special Tests and Calibrations (or, if you run out of free trials), please contact your Snap-on franchisee to purchase a **Product Key** for any of the software application suites. Once you have the Product Key, touch **Applications** on the PRO-LINK® Edge Main Menu. Then touch **Installed Apps**. Touch **Register** to install the app of your choice.

Product Specifications

The PRO-LINK[®] Edge is configured with the following specifications:

Feature	Data
Physical Dimensions, inches (cm)	11 x 7.64 x 2.1 (27.94 x 19.405 x 5.334)
Weight (with standard battery), lb (KG)	3.10 (1.40)
Operating Temperature, Fahrenheit (Celsius)	14 to 122 °F (-10 to 50 °C)
Storage Temperature, Fahrenheit (Celsius)	-4 to +158 °F (-20 to +70 °C)
Screen Size, inches (cm)	10.1 (25.654); 1280x800 Daylight- readable Capacitive Touchscreen
Battery	Lithium-Ion, 10.8V, 3.2 Ah
AC Adapter	100/240 VAC 50/60 Hz 1.0 A Max
Vehicle Power Input	6 to 30 VDC, 4A Max, 24 W Max
Port Types	HDMI Mini, USB-A (5 V DC, 500mA), USB-Micro B, Micro SD Card, 3mm Audio Jack
Operating System	Windows® Embedded Compact 7
Storage	8 GB Solid State Drive
Processor	NXP iMX6 Dual Core
Vehicle Network Protocols Supported	 CAN / J1939 / ISO15765 – 250K, 500K 1M b/s with Autobaud (3 channels) J1708, 1850 VPW J1850 PWM ISO9141 KWP2000, ISO14230 ALDL ATEC J2411 SW-CAN FT-CAN

Chapter 2 • Hardware and User Interface Overview

Feature	Data
Certifications	UL, cUL
Wireless Module Certifications	FCC/IC, CE. MIC
Battery Certifications	UL 2054, IEC 62133, 2nd Edition, UN 38.3
Warranty	1 Year
Repair Phone Number	(800) 311-5452, Option 3

Hardware Overview

This section introduces the $\mathsf{PRO}\text{-}\mathsf{LINK}^{\textcircled{\text{R}}}$ Edge hardware, its ports, and connections.

Front View



Figure 2.1 Front View of the PRO-LINK® Edge

Chapter 2 • Hardware and User Interface Overview

Top View



Figure 2.2 Top View of the PRO-LINK[®] Edge

Back View



Figure 2.3 Back View of the PRO-LINK[®] Edge

To remove the battery pack, you must first remove the screw that holds the battery pack in place.

WARNING:

The stand on the back of the PRO-LINK[®] Edge 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.

Monitoring Battery Power

The PRO-LINK[®] Edge obtains power from any of the following sources:

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

Ξ			2	†	3:41 PM
1	Ċ,				
-	/ehicle Scan		Vehicle History		
	Settings	Applications	Support		

Figure 2.4 Main Menu Showing the Battery Icon

The Battery 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 fully charged and obtaining power from the battery pack.

Use the icon to monitor remaining battery power (as power diminishes the slider moves to the left.

Battery Service

Follow all safety guidelines when handling the battery pack.

WARNING:

 \mathbb{N} Risk of electric shock. Electric shock can cause injury.



- Prior to recycling the battery pack, protect exposed terminals with heavy insulating tape to prevent shorting.
- Disconnect all test leads and turn diagnostic tools off before removing the battery pack.
- Do not attempt to disassemble the battery or remove any component projecting from or protecting the battery terminals.
- Do not expose the scan tool or battery pack to rain, snow, or wet conditions.
- Do not short circuit the battery terminals.

WARNING:

Risk of explosion. Explosion can cause death or serious injury.



• The Lithium battery is factory replaceable only, incorrect replacement or tampering with the battery pack may cause an explosion.

Battery Safety Guidelines

IMPORTANT:



The battery pack contains no user serviceable components. Tampering with the battery pack terminals or housing will void the product warranty.

Keep the following in mind when using and handling the batter pack:

- · Do not short circuit battery pack terminals.
- Do not immerse the scan tool or battery pack in water, or allow water to enter the scan tool or battery pack.
- Do not crush, disassemble, or tamper with the battery pack.
- Do not heat the battery pack to over 100°C (212°F), or dispose of it in a fire.
- Do not expose the battery pack to excessive physical shock or vibration.

- · Keep the battery pack out of reach of children.
- Do not use a battery pack that appears to have suffered abuse or damage.
- Charge the battery pack in the appropriate charger only.
- Do not use a battery charger that has been modified or damaged.
- Use the battery pack for the specified product only.
- Store the battery pack in a cool, dry, well ventilated area.

NOTE:

The battery pack should be used within a short period of time (about 30 days) after charging to prevent loss of capacity due to self-discharging.

If long-term storage of the battery pack is necessary, it should be stored in a a cool, dry, well-ventilated place with a 30 to 75 percent state of charge to prevent loss of characteristics.

To prolong the life of the battery, turn off the scan tool when not in use. The scan tool has a built-in charger that recharges the battery on demand whenever it is connected to a power source.

Replacing the Battery Pack

If the battery pack no longer holds a charge, contact your sales representative to order a new one.

IMPORTANT:

 \mathbf{I} Replace the battery pack with a Snap-on replacement battery pack only.

To replace the battery pack:

- 1 Loosen the battery pack screw.
- 2 Carefully tilt the battery pack up from the bottom, and then remove it.



Figure 2.5 Battery Pack Location

- 3 In the opposite manner of removal, insert the new battery pack into position.
- 4 Then, tilt it down into place making sure it is fully seated.

NOTE:

Do not overtighten the battery pack screw.

5 Tighten the battery pack screw.

Disposing of the Battery Pack

Always dispose of the battery pack according to local regulations, which vary for different countries and regions. The battery pack, while non-hazardous waste, does contain recyclable materials. If shipping is required, ship the battery pack to a recycling facility in accordance with local, national, and international regulations. For additional information contact:

- United States of America—Rechargeable Battery Recycling Corporation (RBRC) at http://www.rbrc.org or http://www.call2recycle.org. You may also call 1 (800) 822-8837 (USA).
- Canada—Rechargeable Battery Recycling Corporation (RBRC) at www.call2recycle.ca. You may also call 1 (888) 224-9764.
- United Kingdom—Electrical Waste Recycling Company at http:// www.electricalwaste.com.

Products bearing the WEEE logo are subject to European Union regulations.

NOTE:

Always dispose of material according to local regulations. Contact your sales representative for details.

User Interface Overview

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

- The Main Menu (pg. 17)
- Vehicle Scan (pg. 22)
- The Vehicle History Menu (pg. 25)
- The Settings Menu (pg. 26)
- The Applications Menu (pg. 27)
- The Support Menu (pg. 28)
- Navigational features (pg. 29)

The Main Menu

When you launch the PRO-LINK $^{\mbox{\tiny R}}$ Edge, the first thing you see, after the splash screen, is the Main Menu.

≡			2	<u></u>	3:41 PM
	۲ ۲				
	Vehicle Scan		Vehicle History		
	O Settings	Applications	Support		

Figure 2.6 Main Menu



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.

Menu Item	What It Does
Vehicle Scan	Presents two choices:
۲ <u>۲</u> ۵	 HD ScanAutomatically scans the vehicle and presents a list of ECMs detected during scanning (J1708 and J1939).
Vehicle Scan	 LMTStarts the vehicle scanning process using the Light Medium Truck application.
	Note: For detailed information on the scanning process, refer to <i>Chapter 4: Using the Diagnostics Menu</i> , later in this manual.
Vehicle History Vehicle History	Enables you to manage reports you created and saved on the device. You can do the following: • Delete and\ existing report • Move a report • Print a report • Preview a report You can also sort how reports are displayed: • Report Name (A-Z) • Report Name (Z-A) • Creation Date (Old-New) • Creation Date (New-Old)

The following table introduces the items on the Main Menu:

Menu Item	What It Does
Settings	 Displays the following choices: Wirelessnetwork tools, including: Connect to a wireless network Add a wireless network Change wireless settings Check Wireless Status Configure Proxy Printerstools to manage printers, including: Add Printer Print Test Page Set as Default (set printer as default and set print default to Save as File) Delete (i.e., delete a printer) Change Settings (i.e., printer settings) Date/Timechange system date, time, time zone, and auto adjust for daylight time TouchscreenTouchscreen calibration Note: For detailed information on the Admin Menu, refer to <i>Chapter 5: Using the Settings Menu</i>, later in this manual.
Applications	 Displays the following choices: Available Upgradeslists newly available upgrades Available Appslists newly released apps Coming Soonlists new apps about to be released. When you select an app from the list, you can review specifications. Installed Appslists the apps installed on your device. Once you select an app, you can: Register an app (requires a product key) See how many free trials are remaining Install an update (if available) Uninstall an app

Chapter 2 • Hardware and User Interface Overview

Menu Item	What It Does
Support	Displays the following choices:
	Systemsystem information, including:
	Get Support
	Device information
Support	Network information
	Remote Access On/Off
	A list of Installed Applications
	Accountaccount information, including:
	Create Account (if the device is not cur- rently registered)
	Account Login
	Reset Password
	Tutorials
	 Troubleshoottroubleshooting tools, including:
	Scan Vehicle Logging
	Manual Scan
	User Interface Logging
	Demo Scan
	Bus Diagnostics

Menu Item	What It Does
Drop-down Menu	Located in the upper-left corner of the Main Menu, the drop-down menu displays the follow- ing choices:
	Units (i.e., English vs. Metric)
	Play Recordingplay recording previously stored on the device
	 Logout Repair-Connectlogout of Repair- Connect (Repair-Connect requires a special subscription; see your Snap-on Franchisee)
	 Supportdisplays the Support Menu, dis- cussed earlier in this table
	Aboutdisplays the following information: System Bundle Version Total Physical Memory
	Used Virtual Memory PRO-LINK [®] Edge Copyright information

Vehicle Scan

When you select Vehicle Scan from the Main Menu, the following screen is displayed:



Figure 2.7 Vehicle Scan Menu

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.
- LMT—Begins the Light and Medium Truck scanning process.

NOTE:

A Manual Scan feature is also available. See "Manual Scan" in Chapter 8: Using the Support Menu, later in this manual.

NOTE:



For detailed information on scanning a vehicle, see Chapter 4: Using the Diagnostics Menu, later in this manual.

The Diagnostics Menu

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

=	2012 Peterbilt - 1XP4DP9X9CD138470			2		†	2:23 PM
A	80 ACTIVE FAULTS		7	INACTIVE FAULTS			
Faults	Engine - Paccar		Engin	e - Paccar			
rauts	Inlet air pressure in inlet manifold - Volt ground - on ECU (D420) pin (A51)	age too low or short drouit to	CAN o	communication - Hardware			
Ę٦	0	OTC P0107 - Powertrain (P) - Current			DTC U10	14 - Network (U) - Historic
	Engine - Paccar		Engin	e - Paccar			
Engine	Engine Exhaust gas pressure after BPV - Voltage too low or short circuit to ground -		EAS-3	actuator ECU - CAN comm	iunication error		
A	on ECU (D420) pin (C81)		_		DTC P3845	- Powertrain (P) - Historic
\mathfrak{S}	E	DTC P047C - Powertrain (P) - Current	Engin	e - Paccar			
Calibrations	Engine - Paccar		AdBlue	e pipe heating relay - Open	dircuit - on ECU	(8375) pin (830)
-	Exhaust gas pressure before turbine - Ve	oltage too low or short circuit to			DTC P3910	- Powertrain (P) - Historic
Î	ground - on ECU (D420) pin (C83)		Engin	e - Paccar			
		OTC P0472 - Powertrain (P) - Current	Aftertr	eatment system - Misuse d	etection - Level 1		
Tests	Engine - Paccar				DTC P151A	· Powertrain (P) · Historic
	Inlet air temperature in inlet manifold - ground - on ECU (D420) pin (A43)	Voltage too low or short circuit to	Engin	e - Paccar			
	0	TC P0113 - Powertrain (P) - Current	Aftertr	eatment system - Misuse d	etection - Level 2		
	Engine - Paccar				DTC P1518	- Powertrain (P) - Historic
	Intercooler temperature - Voltage too hi	gh or short circuit to supply - on	Engin	e - Paccar			
	ECU (D420) pin (C17)		Aftertr	eatment system - Misuse d	etection - Level 3		
						Clear Al	Faults

Figure 2.8 Diagnostics Menu

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

- Faults
- Events (available only with CAT[®] Engines with ACERT[™] Technology and Caterpillar® Electronic Engines applications)
- Parameters (e.g., Engine)
- Calibrations
- Tests

If you have loaded more than one module, there will be multiple parameters tabs (e.g., Engine, Engine Retarder, etc.)

NOTE:

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

Select End Session from the drop-down menu in the upper-left corner to return to the Main Menu.

= 2008 Freightliner - 1FUJGECV18LZ83410 🗈 2 2:06 PM View Vehicle Specs INACTIVE FAULTS E Create Report Engine - Demo Engine Speed Units PID 84 - FMI 3 - Act PID 190 - FMI 2 - In PID 91 - FMI 3 - Active Support End Session (EGR) Valve Mechar SID 146 - FMI 7 - Active About Engine 1 AFT 1 Pariculate Trap Outlet Pressure Test SID 371 - FMI 3 - Active Clear All Faults

The Drop-down Menu: Connected Status

When you are connected to a vehicle, the drop-down menu in the upper-left corner of the display provides menu items that are not available to you when you are not connected.

Figure 2.9 Drop-Down Menu: Connected Status

- View Vehicle Specs—Displays the Vehicle Specifications screen, which you can print if you have previously installed a printer. You can also save the information to a file, i.e., a PDF (either to the device, to an SD Card, or to a USB device).
- 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); also available when not connected to a vehicle.
- Support—Displays the Support screen
- End Session—Ends the session, disconnects from the vehicle, and returns you to the Main Menu (Figure 2.6).
- About—Displays the PRO-LINK Edge information box; also available when not connected to a vehicle.

The Vehicle History Menu

When you select Vehicle History from the Main Menu, the Manage Reports screen is displayed.



For detailed information on the Vehicle History Menu, see Chapter 5: Using the Vehicle History Menu, later in this guide.

		2	<u></u>	2:32
Manage Reports			Sort by: Name (A-Z)	
8LZ83410 20190919 142333.pdf			Thursday, Septer	nber 19, 201
+	Dedetter	Mave	Frad	Preview

Figure 2.10 Manage Reports Screen

You use this screen to manage reports created and saved on the device, for example:

- Delete an existing report
- · Move a report
- Print a report
- · Preview a report

Use the Back Arrow at the bottom of the screen to return to the Main Menu.

The Settings Menu

You access the Settings Menu from the Main Menu (Figure 2.6).

NOTE:

For

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

Menu selections are displayed on the left side of the screen:

- Wireless (the default display when Settings is selected from the Main Menu)
- Printers
- Date / Time
- Touchscreen

eless Networks SBSPublic WIVU-109FA9CABDBE WIVU-109FA9CABD50 VIVU-109FA9CABD50					al al
WIVU-109FA9CABDBE					
WIVU-109FA9CAB250					al
JSBLink2_kurt_m2					ali
					sal
JS8Link2_173					all
JSBLInk2_10375					al
dd Witcless Network	Change Witeless Settings	Check Wireless Status	Configure Proxy		
				-	Connect
	USBLINK2_10375 dd Windless Network				dd Windess Network Change Wineless Settings Check Wireless Status Configure Proce

Figure 2.11 Settings Menu

Use the Back Arrow at the bottom of the screen to return to the Main Menu.

The Applications Menu

You access the Applications Menu from the Main Menu (Figure 2.6). Menu selections are displayed on the left side of the screen:

- Available Upgrades
- Available Apps
- Coming Soon
- Installed Apps

=		2	🤶 🗈 11:41 AM
Supan	Coming Soon Select an application:		
Available Upgrades			
Available Apps			
Coming Soon			
Installed Apps			
Register Apps			
		Currently there are no up-coming applications to display	
Exit			

Figure 2.12 Applications Menu

Use the Exit button at the bottom of the screen to return to the Main Menu.

The Support Menu

You access the Support Menu from the Main Menu (Figure 2.6).

NOTE:

0

For detailed information on the Support Menu, refer to *Chapter 8: Using the Support Menu*, later in this manual.

Menu selections are displayed on the left side of the screen:

- System (the default display when System is selected from the Main Menu)
- Account
- Tutorials
- Troubleshoot

			2	🛜 🛄 1:17 PI
	Get Support		Remote Access	
System	Phone:	800-311-5452	Remote Access: Available: Available	
0	Device		Sancroy resonance.	
	This device is registered to	'Max Hapsburg'	Installed Applications	
Account	Name: Serial Number:	NEXPL2_10_00012	Allison Transmissions - 1K 2K Unregistered, 10 triels remaining	Version 1.6.0.27
\odot	Product ID: Bundle Version:	10 0.0.27	Allison Transmissions - CEC 1 Unregistered, 10 trials remaining	Version 1.5.0.5
Tutorials	OS Version: Bootloader Version:	7.0.7 01.05	Allison Transmissions - Gen4 Unregistered, 10 trials remaining	Version 2.2.0.22
?	Firmware Version: Registry Version: Cable ID:	0.016101 1.1 493048	Allison Transmissions - Gen5 Unregistered, 10 trials remaining	Version 1.1.0.31
Todbieshoot	Network	493048	Allison Transmissions - WTEC	Version 1,6.0.26
	IP Address: MAC Address:	192.168.255,64 84:25:3F:4F:2D:34	Bendix ABS Unregistered, 10 trials remaining	Version 2.0.0.88
			CAT ACERT Engines	Version 2.2.0.21

Figure 2.13 Support Menu

Use the Back Arrow at the bottom of the screen to return to the Main Menu.

Navigational Features

The PRO-LINK[®] Edge 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.

NOTE:

You can also attach 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, by touching an item or an icon on the screen.

Screen Icons

The PRO-LINK® Edge user interface also employs screen icons. You touch the icon to activate the feature or to open a screen. The following table introduces the available icons.

lcon	What the Icon Does
Support	 Indicates that Remote Access is enabled Takes you to the Support Menu Located on the toolbar
Back Arrow	 Takes you back to a previous screen or menu Located in the lower-left corner of the display
Updates Available	 Displays a list of available updates. You can install the updates from this list. Located on the toolbar when updates are available
Apps Registered	 Indicates the apps have been registered and displays a list Located on the toolbar when apps have been successfully registered

Chapter 2 • Hardware and User Interface Overview

Icon	What the Icon Does
SD Card Present	 Indicates that an SD card is present in the SD slot Located on the toolbar when a micro SD card is inserted
USB Device Present	 Indicates that a USB device is in one of the USB ports. Located on the toolbar when a USB device is inserted
Wireless Network	 Indicates wireless network strength You can touch the icon to open the Wireless Networks screen. Touch the Back Arrow to close the screen. When there is no wireless connection, the icon has an exclamation mark superimposed over the icon
Battery	 Indicates the power source for the device. There are two states: When the device is either connected to a vehicle or plugged into a power source. When the device is fully charged and obtaining power from the battery pack. As power diminishes the slider moves to the left.

Chapter 3

Getting Started



- ▼ Supplying Power to the PRO-LINK® Edge, page 32
- Connecting to a Vehicle, page 33
- ▼ Scanning a Vehicle, page 35
 - ▼ Heavy Duty Scan, page 36
 - ▼ Light and Medium Truck Scan, page 40
- Introduction to Tab Functions, page 43
- Viewing Vehicle Specifications, page 53
- Monitoring Battery Power, page 55

This chapter explains how to connect the device to a vehicle. It also discusses the two ways to scan a vehicle, HD Scan and LMT. An introduction to the various tabs on the Diagnostics Menu is also provided.

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[®] Edge

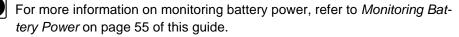
There are three ways to supply power to the PRO-LINK[®] Edge. You can use the:

• **On-board battery**—A 10.8 volt, 3.2 AH Li-ion battery is included with your device.

The PRO-LINK[®] Edge 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:



- 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[®] Edge.

NOTE:



The device will automatically go into **Standby Mode** after 10 minutes. To exit Standby mode, tap the screen. After 1 hour of user inactivity, the PRO-LINK[®] Edge will power off.

To turn on the PRO-LINK[®] Edge, press and briefly hold the **On/Off** switch on the front 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[®] Edge 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[®] Edge.
- 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 (located on the front of the device in the lower-right corner).

NOTE:

To power down the PRO-LINK[®] Edge, press and hold the On/Off switch.

When you power up the PRO-LINK[®] Edge, 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:

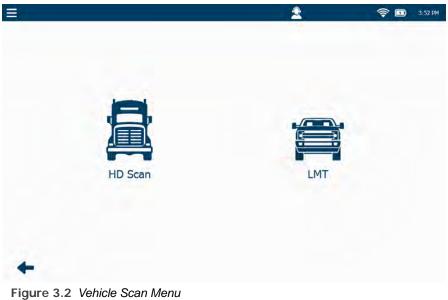
- HD Scan (Auto)—Scans the vehicle, presents a list of ECMs detected during scanning, and enables you to select up to six (6) modules from the list.
- LMT—Begins the Light and Medium Truck scanning process.

NOTE:

A Manual Scan option is also available. See "Manual Scan" in Chapter 8: Using the Support Menu, later in this manual.

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 HD Scan.



- HD Scan (pg. 36)
- LMT (pg. 40)

Heavy Duty Scan

If you selected HD Scan on the Vehicle Scan Menu (Figure 3.2), the device scans the vehicle to identify available modules.



Figure 3.3 Scanning Vehicle Screen

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

The Module Selection screen is displayed.

	2	🤶 🛄 11:57 AM
Select up to 6 modules to load:		
Engine Procese - Chi		
Retarder - Engine Heavy Diry Standard - 1999 - Cht		
Cancel		182

Figure 3.4 Module Selection Screen

NOTE:

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

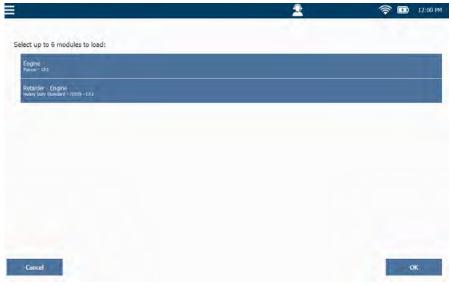


Figure 3.5 Module Selection Screen with Item Highlighted

6 Touch OK.

The PRO-LINK[®] Edge loads each of the selected modules.

The **Diagnostics Menu** is displayed.

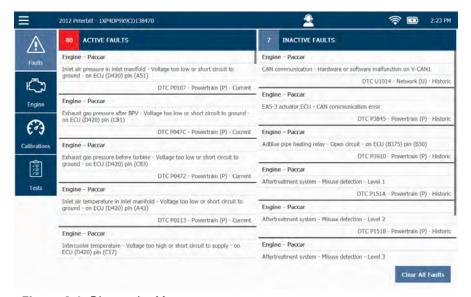


Figure 3.6 Diagnostics Menu

Light and Medium Truck Scan

When you select LMT from the Vehicle Scan Menu (Figure 3.2), the following screen is displayed.



Figure 3.7 OBD II/Light Medium Truck Screen

1 Select the appropriate application for the truck you are connected to from the list on the right.

NOTE:

The **Select Last Vehicle** feature enables you to connect to the last vehicle you were connected to without having to make further selections.

The screen is refreshed and a list of model years is displayed on the right side of the display.

	<u></u>	? 1 8:30
BDII / Light Medium Truck Select the vehicle you wish to connect to.		
Application		Year
Select Last Vehicle		2019 (K)
GM		2018 (J)
Isuzu		2017 (H)
Ford		2016 (G)
Workhorse		2015 (F)
Dodge / RAM		2014 (E)
Navistar		2013 (D)
OBDII		2012 (C)
HMMWV		2011 (B)
		2010 (A)
Cancel		EB

Figure 3.8 Select the Model Year

2 Select the appropriate model year from the list.

BDII / Light Medium Truck		
Select the vehicle you wish to r		
Application	Year	VIN (8th digit)
Select Last Vehicle	2019 (K)	1 - 2.8L (LWN) Expres
GM	2018 (J)	1 - 2.8L (LWN) Savana
Isuzu	2017 (H)	B - 6.0L (LC8) Express
Ford	2016 (G)	B - 6,0L (LC8) Savana
Workhorse	2015 (F)	B - 6.0L (LC8) Sierra
Dodge / RAM	2014 (E)	B - 6.0L (LC8) Silverad
Navistar	2013 (D)	C - 5.3L (L83) Sierra
OBDII	2012 (C)	C - 5.3L (L83) Silverad
HMMWV	2011 (B)	F - 4.8L (L20) Express
	2010 (A)	F - 4.8L (L20) Savana

Figure 3.9 Select the VIN

3 Select the VIN from the list.

BDII / Light Medium Truck		
Verify selection and click OK to		
Application	Year	VIN (8th digit)
Select Last Vehicle	2019 (K)	1 - 2.8L (LWN) Expres
GM	2018 (J)	1 - 2.8L (LWN) Savana
Isuzu	2017 (H)	B - 6.0L (LC8) Express
Ford	2016 (G)	B - 6,0L (LC8) Savana
Workhorse	2015 (F)	B - 6.0L (LC8) Sierra
Dodge / RAM	2014 (E)	B - 6.0L (LC8) Silverad
Navistar	2013 (D)	C - 5.3L (L83) Sierra
OBDII	2012 (C)	C - 5.3L (L83) Silverad
HMMWV	2011 (B)	F - 4.8L (L20) Express
	2010 (A)	F - 4.8L (L20) Savana

Figure 3.10 All Three Selections Made

4 Review your selections, and touch **OK**.

2	🤶 🖪 8
	1000

Figure 3.11 Module Selection Screen

5 Select up to six modules to load, and touch **OK**.

The Diagnostics Menu is displayed (Figure 3.12).

Introduction to Tab Functions

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

- Faults (pg. 43)
- Parameters (pg. 44)
- Calibrations (pg. 46)
- Tests (pg. 51)

The following subsections briefly introduce each of the tabs of the Diagnostics Menu.

NOTE:

For detailed instructions on using each of the tabs on the Diagnostics Menu, see Chapter 4: Using the Diagnostics Menu, later in this manual.

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 and INACTIVE FAULTS.

=	2012 Peterbilt - 1XP4DP9X9CD138470	👱 🛜 🖬 2:23 PM	
	80 ACTIVE FAULTS	7 INACTIVE FAULTS	
Faults	Engine - Paccar	Engine - Paccar	
Paults	Inlet air pressure in inlet manifold - Voltage too low or short circuit to ground - on ECU (D420) pin (A51)	CAN communication - Hardware or software malfunction on V-CAN1	
۲ ^۲ ۳	DTC P0107 - Powertrain (P) - Current	DTC U1014 - Network (U) - Historic	
Engine	Engine - Paccar	Engine - Paccar	
Engine	Exhaust gas pressure after BPV - Voltage too low or short circuit to ground -	EAS-3 actuator ECU - CAN communication error	
A	on ECU (D420) pin (C81)	DTC P3845 - Powertrain (P) - Historic	
£-3	DTC P047C - Powertrain (P) - Current	Engine - Paccar	
Calibrations	Engine - Paccar	AdBlue pipe heating relay - Open circuit - on ECU (8375) pin (830)	
-	Exhaust gas pressure before turbine - Voltage too low or short circuit to	DTC P3910 - Powertrain (P) - Historic	
Î	ground - on ECU (D420) pin (C83)	Engine - Paccar	
	DTC P0472 - Powerbain (P) - Current	Aftertreatment system - Misuse detection - Level 1	
Tests	Engine - Paccar	DTC P151A - Powertrain (P) - Histo	
	Inlet air temperature in inlet manifold - Voltage too low or short circuit to ground - on ECU (D420) pin (A43)	Engine - Paccar	
	DTC P0113 - Powertrain (P) - Current	Aftertreatment system - Misuse detection - Level 2	
	Engine - Paccar	DTC P1518 - Powertrain (P) - Historic	
	Intercooler temperature - Voltage too high or short circuit to supply - on	Engine - Paccar	
	ECU (D420) pin (C17)	Aftertreatment system - Misuse detection - Level 3	
		Clear All Faults	

Figure 3.12 Active and Inactive Fault Codes

The Parameters Tab

The PRO-LINK[®] Edge creates a Parameters tab for each module loaded (e.g., **Engine** and **Engine Retarder**). Depending on the number of modules loaded, you may, or may not, have multiple parameters tabs displayed.

=					2	†	3:18 PM
	Quick List		9				
Faults	Engine						
Ċ	DOC - DPF						
Engine	DEF - SCR						
	EGR						
Engine Retarder	Exhaust Back Pressure	Valve					
0	NOx			1	Select a category to view live data		
Calibrations	Fuel System						
1	Turbocharger						
Tests	Voltages						
	Temperatures						
	Pressures						

Figure 3.13 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.

Touch the list and drag your finger up to scroll through the list of categories. Touch the screen to select a category (e.g., **Pressures**), and display the parameters for that category.

≡	2012 Peterbilt - 1XP4DP9X	9CD138470	2	🤶 🗊 3:31 PM
\wedge	Quick List	0	Air Pressure	7.3 psl
Faults	Engine		Air Pressure Pre-Compressor	14.3 psi
Ö	DOC - DPF		Exhaust Gas Pressure Pre-Turbine	7.7 psi
Engine	DEF - SCR		Air Pressure Pre-Turbine (Filtered)	58.0 psl
	EGR		Exhaust Pressure after BPV	7.3 psi
Engine Retarder Exhaust Back Pressure Valve		ve	Amblent Air Pressure	14.3 psi
0			Amblent Pressure (Absolute)	14 psi
Calibrations			Crankcase Air Pressure (Relative)	N/A
			DEF Pressure (Relative)	188.5 psi
Tests	Voltages		DOC Inlet Pressure	37.7 psi
	Temperatures		DPF Outlet Pressure (Relative)	0 psi
	Pressures		DPF Delta Pressure	0.0 psi
			DPE Delta Pressure	-0.1 nsi

The Parameters screen is displayed.

Figure 3.14 Parameters Screen

Use your finger to drag and scroll through all the items in the list.

NOTE:

Touch a parameter in the list to add it to your Quick List. For detailed information on creating a Quick List, refer to "Creating and Viewing a Quick List" in *Chapter 4: Using the Diagnostics Menu,* later in this manual.

The Calibrations Tab

The Calibrations 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 Calibrations tab is selected during a session, a message instructs you to select a module.



Figure 3.15 Select a Module Screen

Select a module (e.g., Engine - MaxxForce - Ch1).

A list of available categories is displayed.

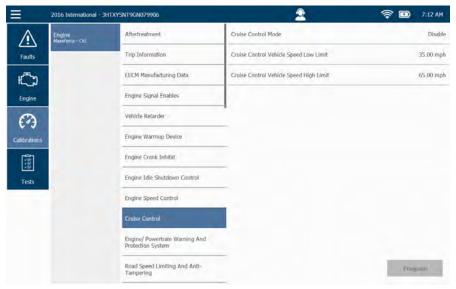
≡			2	🤶 🖬 7:21 AM
	Engine MassForce - Chi	Aftertreatment		
Faults		Trip Information		
Ö		EECM Manufacturing Data		
Engine		Engine Signal Enables		
0		Vehicle Retarder		
Calibrations		Engine Warmup Device		
		Engine Crank Inhibit	Select a category to view	calibrations
Tests		Engine Idle Shutdown Control		
		Engine Speed Control		
		Cruise Control		
		Engine/ Powertrain Warning And Protection System		
		Road Speed Limiting And Anti- Tampering		

Figure 3.16 List of Available Categories



You can use your finger to drag and scroll through all the items in the list.

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



The Cruise Control screen is displayed.

Figure 3.17 Cruise Control Screen

Touch the screen to select a calibration (e.g., **Cruise Control Vehicle Speed High Limit**).

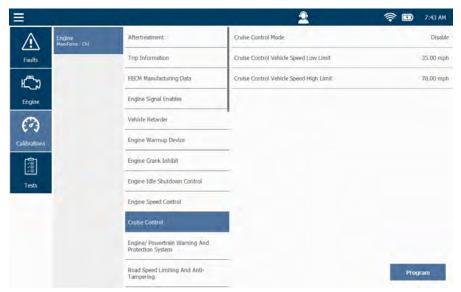
The calibration screen is displayed.





Note the Minimum and Maximum values displayed for your reference.

After you have entered the New Value, touch Update.



The Cruise Control Screen is updated with the value you entered.

Figure 3.19 Cruise Control Screen Updated with New Value

Touch the **Program** button to finalize the calibration.

NOTE:

You may receive a series of messages directing you to cycle the ignition. Follow the prompts.

Once the new value is verified the Cruise Control screen is displayed again. At this point, you may select other datapoints to calibrate within the Cruise Control category, or select another category.

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[®] Edge 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 Module Selection screen is displayed.

Figure 3.20 Module Selection Screen

Depending on the vehicle you are connected to, there may be multiple modules to choose from.

Once you select the module from the list on the left, a list of available tests for that module is displayed.

=	2012 Peterbilt - 1XP4DP9)	K9CD138470	2	🤶 🛄 3:54 PM
\triangle	Engine Paccar - Chi	DPF Regeneration		
Faults		DPF Maintenance		
Ö		New Filter - DPF De-Greening		
Engine		Cleaned Filter - DPF Reinstallation		
		Dosing Injector Tests		
Engine Retarder		AFT History		
3		DEF Dosing Quantity		
Calibrations		DEF System Leak Test		
Î		DEF Line Heater 1 (Pressure Line)		
Tests		DEF Line Heater 2 (Return Line)		
	2	DEF Line Heater 3 (Inlet Line)		
		DEF Tank Heater Control Valve		
		Disable DEE Decate		

Figure 3.21 Available Tests Screen

Select a test from the list to display the screen for that test.

Then, follow the on-screen prompts to run the test.

Viewing Vehicle Specifications

The Vehicle Specs feature is accessed through the drop-down menu in the upperleft corner of the display when you are connected to a vehicle.

Ξ	2012 Peterbilt - 1XP4DP9X9	HCD138470	2	🤶 💷 4:16 PM
	View Vehicle Specs	DPF Regeneration		
E	Create Report	DPF Maintenance		
	Units >	New Filter - DPF De-Greening		
	Logout Repair-Connect	Cleaned Filter - DPF Reinstallation		
	Support	Dosing Injector Tests		
*	End Session	AFT History		
	About	DEF Dosing Quantity		
	brations	DEF System Leak Test		
		DEF Line Heater 1 (Pressure Line)		
	Tests	DEF Une Heater 2 (Return Une)		
		DEF Line Heater 3 (Inlet Line)		
		DEF Tank Heater Control Valve		
		Disable DEF Derabe		

Figure 3.22 Drop-down Menu Showing the View Vehicle Specs Menu Item

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

- Module (e.g., Engine Paccar Ch1)
- Hardware Version
- Engine Name Extension
- Engine Name
- Dealer Code
- Daf Software Version
- Dealer Code Extension
- Software Build ID
- Vehicle Identification Number (VIN)
- Software ID

The Vehicle Specifications screen is displayed.



Figure 3.23 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 6: Using the Settings Menu,* later in this guide

When you have finished viewing the information, touch the **Back Arrow** at the bottom of the screen to go back to the list of Available Tests (Figure 3.21).

Monitoring Battery Power

The PRO-LINK[®] Edge 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 3.24 Main Menu Showing the Battery Icon

The Battery 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 fully charged and obtaining power from the battery pack.

NOTE:



You can use the icon to monitor battery strength. As power diminishes the slider moves to the left. When it looks like strength is down to about 25%, switch to another power source (e.g., the AC adapter).



Chapter 4

Using the Diagnostics Menu



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 - ▼ Faults, page 59
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 - ▼ Parameters, page 63
 - ▼ Managing Quick Lists, page 65
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 - ▼ Calibrations, page 76
 - ▼ Calibrating a Datapoint, page 80
 - 🔻 Tests, page 85
- ▼ Features Available from the Drop-Down Menu, page 94
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This chapter provides detailed instructions on using the diagnostic features found on the Diagnostics Menu when PRO-LINK[®] Edge is connected to a vehicle.

NOTE:

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 $^{\mbox{\tiny B}}$ Edge 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.

=	2012 Peterbilt - 1XP4DP9X9CD138470	👤 🛜 📼 2:23 PM		
	80 ACTIVE FAULTS	7 INACTIVE FAULTS		
Faults	Engine - Paccar	Engine - Paccar		
rauits	Inlet air pressure in inlet manifold - Voltage too low or short circuit to ground - on ECU (D420) pin (A51)	CAN communication - Hardware or software malfunction on V-CAN1 DTC U1014 - Network (U) - Historic Engine - Paccar EAS-3 actuator ECU - CAN communication error DTC P3945 - Powertrain (P) - Historic		
۲ <u></u>	DTC P0107 - Powertrain (P) - Current			
Engine	Engine - Paccar Exhaust gas pressure after BPV - Voltage too low or short circuit to ground - on ECU (0420) pin (C81)			
€°Э	DTC P047C - Powertrain (P) - Current	Engine - Paccar		
Calibrations	Engine - Paccar	AdBlue pipe heating relay - Open circuit - on ECU (8375) pin (830)		
	Exhaust gas pressure before turbine - Voltage too low or short circuit to	DTC P3910 - Powertrain (P) - Historic		
	ground - on ECU (D420) pln (C83) DTC P0472 - Powertrain (P) - Current	Engine - Paccar Aftertreatment system - Misuse detection - Level 1		
Tests	Engine - Paccar	DTC P151A - Powertrain (P) - Historic		
	Inlet air temperature in inlet manifold - Voltage too low or short circuit to ground = on ECU (D420) pin (A43)	Engine - Paccar		
	DTC P0113 - Powertrain (P) - Current	Aftertreatment system - Misuse detection - Level 2		
	Engine - Paccar	DTC P1518 - Powertrain (P) - Historic		
	Intercooler temperature - Voltage too high or short circuit to supply - on ECU (D420) pin (C17)	Engine - Paccar Aftertreatment system - Misuse detection - Level 3 Clear All Faults		

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-selections are displayed on the right side of the screen.

- Faults (pg. 59)
- Parameters (pg. 63)
- Calibrations (pg. 76)
- Tests (pg. 85)

Faults

The Faults screen is the default display on the Diagnostics Menu. Other selections are available on the left side of the display (e.g., Engine, Calibrations, Tests).

From the faults screen display you can:

- View active and inactive faults (pg. 59)
- View more information on a particular fault (pg. 60)
- Clear All Faults (pg. 62)

Viewing Active and Inactive Faults

Faults are displayed in two categories:

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

\wedge	80 ACTIVE FAULTS	7 INACTIVE FAULTS		
Faults	Engine - Paccar	Engine - Paccar		
Figures	Inlet air pressure in inlet manifold - Voltage too low or short circuit to ground - on ECU (D420) pin (A51)	CAN communication - Hardware or software malfunction on V-CAN1 DTC U1014 - Network (U) - Histori Engline - Paccar		
Ę	DTC P0107 - Powertrain (P) - Current			
	Engine - Paccar			
Engine	Exhaust gas pressure after BPV - Voltage too low or short circuit to ground -	EAS-3 actuator ECU - CAN communication error		
0	on ECU (D420) pin (C81)	DTC P3845 - Powertrain (P) - Histor		
6.2	DTC P047C - Powertrain (P) - Current	Engine - Paccar		
alibrations	Engine - Paccar	AdBlue pipe heating relay - Open circuit - on ECU (8375) pin (830)		
-	Exhaust gas pressure before turbine - Voltage too low or short circuit to ground - on ECU (D420) pin (C83)	DTC P3910 - Powertrain (P) - Histor		
	DTC P0472 - Powerbain (P) - Current	Engine - Paccar		
Tests		Aftertreatment system - Misuse detection - Level 1		
T.C.a.D	Engine - Paccar	DTC P151A - Powertrain (P) - Histori		
	Inlet air temperature in inlet manifold – Voltage too low or short circuit to ground = on ECU (D420) pin (A43)	Engine - Paccar		
	DTC-P0113 - Powertrain (P) - Current	Aftertreatment system - Misuse detection - Level 2		
	Engine - Paccar	DTC P151B - Powertrain (P) - Histori		
	Intercooler temperature - Voltage too high or short circuit to supply - on	Englne - Paccar		
	ECU (D420) pin (C17)	Aftertreatment system - Misuse detection - Level 3		

Figure 4.2 Faults Screen

Touch the screen to scroll through the two lists.

Line Number	Contents
1	The name of the module where the fault was found (e.g., Engine 1 - Paccar)
2	Either the name of the parameter experienc- ing the fault, or a combination of the name and a description of the fault (e.g., Inlet air pressure in inlet manifold - Voltage too low or short circuit to ground - on ECU (D420) pin (A51).
3	SAE/DTC information about the fault (e.g., DTC P0101 - Powertrain (P) - Current)

Each fault listed contains the following information for that fault:

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., **Inlet air pressure in inlet manifold**). The More Info screen is displayed with the Description pane activated.



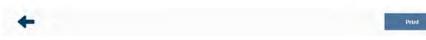


Figure 4.3 More Info Screen

- 2 Touch the **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 10: Using* PRO-LINK[®] *Repair-Connect*, later in this manual.
- 4 Touch the **Print** button to send the page to the printer.
- 5 Touch the **Back Arrow** 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[®] Edge re-scans the vehicle and re-lists the ACTIVE faults found during the re-scan.

To clear all inactive faults:

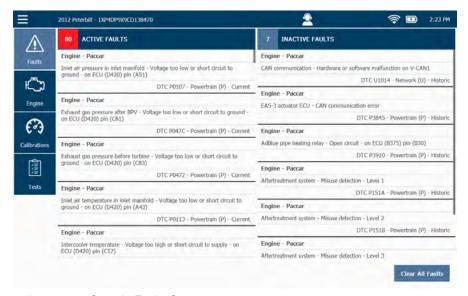


Figure 4.4 Sample Faults Screen

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.

Parameters

The Parameters screen is accessed by touching one of the Parameters tabs (e.g., Engine) on the left-side of the Diagnostics Menu.

NOTE:

The PRO-LINK[®] Edge creates a Parameters tab for each module (e.g., **Engine - Paccar - Ch1** and **Engine Retarder- HDS J1939 Ch1**) loaded during the scanning process.

=	2012 Peterbilt - 1XP4DP9)	X9CD138470	iya at a	2	🤶 🗈 3:31 PM
	Quick List	0	Air Pressure		7.3 psl
Faults	Engine		Air Pressure Pre-Compressor		14.3 psi
Ô	DOC - DPF DEF - SCR EGR		Exhaust Gas Pressure Pre-Turbine		7.7 psl
Engine			Air Pressure Pre-Turbine (Filtered)		58.0 psl
			Exhaust Pressure after BPV		7.3 psl
Engine Retarder	Exhaust Back Pressure Va	alve	Amblent Air Pressure		14.3 psi
\mathfrak{O}	NOx		Ambient Pressure (Absolute)		14 psi
Calibrations			Grankcase Air Pressure (Relative)		N//
(!!!!	Turbocharger		DEF Pressure (Relative)		188.5 p
Tests	Voltages		DOC Inlet Pressure		37.7 psi
	Temperatures		DPF Outlet Pressure (Relative)		0 psi
	Pressures		DPF Delta Pressure		0.0 psi
			DPF Delta Pressure		-0.1 psi

Figure 4.5 Sample Parameters Screen

From the Parameters tab you can:

- View parameters (pg. 64)
- Manage Quick Lists (pg. 65)
- Create and view a Quick List (pg. 67)
- Remove parameters from a Quick List (pg. 71)
- Graph data (pg. 74)

Viewing Parameters

To view parameters:

1 From the Diagnostics Menu (Figure 4.1), select the Parameters tab (e.g., **Engine**).

=	2012 Peterbilt - 1XP4DP9X9CD	138470	2	†	3:49 PM
	Quick List	0			
Faults	Engine				
Ô	DOC - DPF				
Engine	DEF - SCR				
(?)	EGR				
Calibrations	Exhaust Back Pressure Valve				
(Internet	NÖx		Select a category to view live data		
Tests	and the second se				
	Turbocharger				
	Voltages				
	Temperatures				
	Pressures				

Figure 4.6 Select a Category Screen

NOTE:

0

Touch the screen, and drag your finger up to scroll down the list on the left.

2 Touch the name of the category for which you want to view live data (e.g., **Pressures**).

≡	2012 Peterbilt - 1XP4DP9X	9CD138470		2	🤶 🔟 3:31 PM
\triangle	Quick List	0	Air Pressure		7.3 psl
Faults	Engine		Air Pressure Pre-Compressor		14.3 psi
Ö	DOC - DPF		Exhaust Gas Pressure Pre-Turbine		7.7 psi
Engine	DEF - SCR		Air Pressure Pre-Turbine (Filtered)		58.0 psi
	EGR		Exhaust Pressure after BPV		7.3 psi
Engine Retarder	Exhaust Back Pressure Val	ve	Ambient Air Pressure		14.3 psl
3	NOx		Ambient Pressure (Absolute)		14 psi
Calibrations	Fuel System		Grankcase Air Pressure (Relative)		N/A
	Turbocharget	1	DEF Pressure (Relative)		188.5 pst
Tests	Voltages		DOC Inlet Pressure		37.7 psi
	Temperatures		DPF Outlet Pressure (Relative)		0 pst
	Pressures		DPF Delta Pressure		0.0 psi
			DPE Delta Pressure		-0.1 nsi

A list of parameters for the selected category is displayed.

Figure 4.7 List of Parameters

All parameters available for the category you selected (e.g., Pressures) are displayed in the list to the right of the categories. Values, if available, are also displayed. Touch the screen, and drag your finger up to move down the list.

You can select another category from the list on the left, or create a Quick List.

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, Engine Retarder, etc.)

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.

A sample quick list.

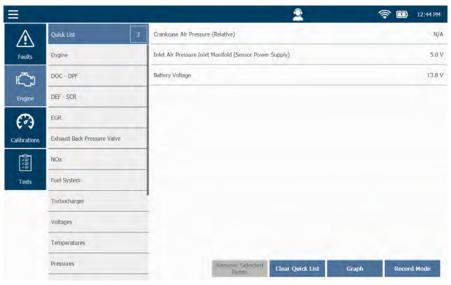


Figure 4.8 Sample Quick List



The Quick List is limited to ten (10) 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, a screen explaining how to add parameters to the Quick List is displayed.

To create a Quick List:

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

=				2	🤶 💷 12:53 PM
	Quick List	0			
Faults	Engine				
ŝ	DOC - DPF				
Engine	DEF - SCR				
63	EGR				
Calibrations	Exhaust Back Pressure Valve				
	NOx		To create a Quick L	ist, select a category, then select	a parameter to add
Tests	Fuel System				
	Turbocharger				
	Voltages				
	Temperatures				
	Pressures				

Figure 4.9 Select a Category Screen

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

=	2012 Peterbilt - 1XP4Di	P9X9CD138470	2	🤶 🖪 3:31 PM
\wedge	Quick List	0	Air Pressure	7.3 psl
Faults	Engine		Air Pressure Pre-Compressor	14.3 psl
ŝ	DOC - DPF		Exhaust Gas Pressure Pre-Turbine	7.7 psl
Engine	DEF - SCR		Air Pressure Pre-Turbine (Filtered)	58.0 psł
	EGR		Exhaust Pressure after BPV	7.3 psi
Engine Retarder	Exhaust Back Pressure Valve		Amblent Air Pressure	14.3 psi
\mathfrak{O}	NÖx		Amblent Pressure (Absolute)	14 psi
Calibrations	Fuel System		Crankcase Air Pressure (Relative)	N/A
(Turbocharger		DEF Pressure (Relative)	188.5 psi
Tests	Voltages		DOC Inlet Pressure	37.7 psi
	Temperatures		DPF Outlet Pressure (Relative)	0 psi
	Pressures		DPF Delta Pressure	0.0 psi
	-		DPF Delta Pressure	-0.1 psi

A list of parameters for the selected category is displayed.

Figure 4.10 Parameter List for Pressures

NOTE:



Touch the screen, and drag your finger up to move down the list.

3 Touch the screen to select a parameter (e.g., **DEF Pressure**).

Your selection is highlighted.

Ξ				2	🛜 🖬 1:05 PM
	Quick List	1	Air Pressure		7.3 psi
Faults	Engine		Air Pressure Pre-Compressor		14,4 psi
ŝ	DOC - DPF		Exhaust Gas Pressure Pre-Turbine		7.7 psi
Engine	DEF - SCR		Air Pressure Pre-Turbine (Filtered)		58.0 psi
3	EGR		Exhaust Pressure after BPV		7.3 pst
Calibrations	Exhaust Back Pressure Valv	/e	Amblent Air Pressure		14,4 psi
1	NOx		Amblent Pressure (Absolute)		14 psi
Tests	Fuel System		Crankcase Air Pressure (Relative)		N/A
	Turbodvarger		DEF Pressure (Relative)		168.5 psi
	Voltages		DOC Inlet Pressure		37.7 psl
	Temperatures		DPF Outlet Pressure (Relative)		0 psi
	Pressures		DPF Delta Pressure		0.0 psi
			DPF Delta Pressure		-0.1 psi

Figure 4.11 Selection Highlighted and Added to the Quick List

Note that there is now one (1) item in the Quick List box (located at the topleft portion of the screen).

4 Continue adding parameters to the list.

NOTE:

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

5 Once you are finished adding parameters to the list, touch **Quick List** at the top of the list of categories to view the Quick List you created.

≡			2	<u></u>	1:14 PM
	Quick List 4	DEF Pressure (Relative)			188.5 psi
Faults	Engine	Exhaust Pressure after BPV			7,3 psi
5	DOC - DPF	BPV Position (Raw)			100 %
Engine	DEF - SCR	Exhaust Temp after BPV			1471,7 °F
0	EGR				
Calibrations	Exhaust Back Pressure Valve				
A	NOx				
Tests	Fuel System				
	Turbocharges				
	Voltages				
	Temperatures				
	Pressures	Remove * elected	Clear Quick List	Graph Reco	rd Mode

The Quick List is displayed.

Figure 4.12 Sample Quick List

NOTE:



For information on using the Graph button to graph parameter data, see Graphing Data on page 74 of this chapter.

NOTE:

The **Record Mode** feature is discussed in *Chapter 9: Using Record and* Playback, later in this manual.

6 Move on to Removing Parameters from the Quick List, next.

Removing Parameters from the Quick List

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

To remove a parameter from the Quick List:

1 Touch **Quick List** at the top of the list of categories to display the current Quick List.

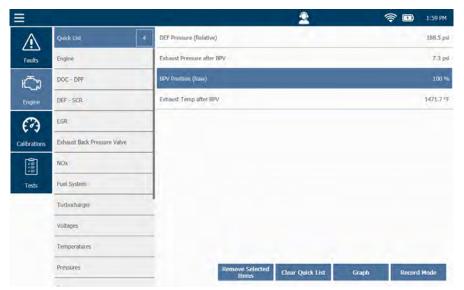
=			-	2	🛜 🗊 1:14 PM	
	Quick List	4	DEF Pressure (Relative)		188.5 p	si
Faults	Engine		Exhaust Pressure after BPV		7.3 p	sì
Õ	DOC - DPF		BPV Position (Raw)		100 %	16
Engine	DEF - SCR		Exhaust Temp after BPV		1471,7	F.
0	EGR					
Calibrations	Exhaust Back Pressure	Valve				
(NOx					
Tests	Fuel System					
	Turbocharger		1			
	Voltages					
	Temperatures					
	Pressures		Remove 2 alle Domos	Clear Quick List	Graph Record Mode	ľ

Figure 4.13 Sample Quick List

2 Touch the screen to select the parameter you want to remove from the list.

NOTE:

You can also remove all the parameters in the list by touching the Clear Quick List button at the bottom of the screen.



The selected parameter is highlighted.

Figure 4.14 Removing Parameters from the Quick List

3 Touch the Remove Selected Items button.

The Quick List is updated.

₹	2			2	8	🛜 🔝 2:02 PM
	Quick List	3 DEF Pressure (Rela	tive)			188.5 psi
Faults	Engine	Exhaust Pressure a	fter BPV			7,3 psi
5	DOC - DPF	Exhaust Temp afte	r BPV			1471,7 °F
Engine	DEF - SCR					
63	EGR					
Calibrations	Exhaust Back Pressure Valve					
1	NOx					
Tests	Fuel System					
	Turbocharger					
	Voltages.					
	Temperatures					
	Pressures		Remove Selected	Clear Quick List	Graph	Record Mode
			- Contraction			

Figure 4.15 Updated Quick List

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

The **Select a Category** screen is displayed again (Figure 4.9).

Graphing Data

You can view a visual representation (i.e., a graph) of the parameters in the Quick List by using the Graph button at the bottom of the screen (Figure 4.15). Only scalable parameters (i.e., parameters that have values that can vary over time) will be displayed, for example, temperatures.

NOTE:

For instructions on creating a Quick List, refer to *Creating and Viewing a* Quick List on page 67, earlier in this manual.

To view a real-time graph of the parameters in the Quick List:

1 Create a Quick List with several parameters to graph.

=	2000 GMC - 1GKDM19W1	YB543817	2	🤶 💷 10:48 AM
	Quick List	-4	Short Term FT Bank 1	-2.3
Faults	HVAC		Short Term FT Bank 1	125.0 Counts
	Engine		Long Term FT Bank 1	121.0 Counts
Engine	EGR	-	Long Term FT Bank 1	
(?)	Fuel Trims		Short Term FT Bank 2	-3.9
Calibrations	Misfires	-	Short Term FT Bank 2	123.0 Counts
A	EVAP System	-	Long Term FT Bank 2	122.0 Counts
Tests	Fuel System		Long Term FT Bank 2	-4.7
	Fuel Injectors		Air Fuel Ratio	15:1
	Turbocharger		 Rich/Lean Bank 1 	Lean
	Starting/Charging		- Rich/Lean Bank 2	Lean
	Engine Position	_	- Loop Status	Closed

Figure 4.16 Quick List Parameters Highlighted

2 Touch Quick List at the top of the list of categories.

The Quick List is displayed.

=	2000 GMC - 1GKDM19W1	YB543817		2	🤶 🗊 10:55 AM
	Quick List	4	Short Term FT Bank 2		0.8
Faults	HVAC.		Long Term FT Bank 1		-9,4
	Engine		Short Term FT Bank 1		-1,6
Engine	EGR		Long Term FT Bank 2		-8,6
(?)	Fuel Trims				
Calibrations	Misfires				
1	EVAP System				
Tests	Fuel System				
	Fuel Injectors				
	Turbocharger				
	Starting/Charging		Rommye Sala	and loss and loss	No. of Concession, Name
	Engine Position		freme	Clear Quick List	Graph Record Mode

Figure 4.17 Quick List

3 Touch the **Graph** button.

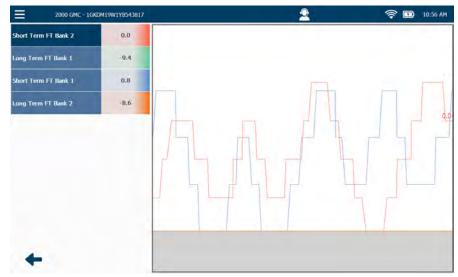


Figure 4.18 Sample Graph

4 Touch the **Back Arrow** to return to the Quick List (Figure 4.17).

Calibrations

From the Calibrations menu, you can:

- Select a calibration category and view the associated datapoints (pg. 77)
- Calibrate a datapoint (pg. 80)

=	6		2	🛜 💷 9:35 AM
\wedge	Engine Mapforce - Chi	Aftertreatment	las Smildown Timer Mede	Death
Faults		Trip Information	Engine Idle Shutdown Time	5.00 min
Ö		EECM Manufacturing Data	Engine Idle Shutdown Maximum Intake Air Temperature	111.2 °F
Engine		Engine Signal Enables	Engine Idle Shutdown Minimum Intake Air Temperature	60.8 °F
(?)		Vehicle Retarder	Finglan (das Simidawi (A)05	Charles Course
Calibrations		Engine Warmup Device	Smart IST DDS	Enable
1		Engine Crank Inhibit	Smart IST Brake	Disable
Tests		Engine Idle Shutdown Control	Smart IST Park Brake	Disable
		Engine Speed Control		
		Cruise Control		
		Engine/ Powertrain Warning And Protection System		
		Road Speed Limiting And Anti- Tampering		Program

Figure 4.19 Sample Calibrations Screen

NOTE:

Calibrations are not available for all software applications. For example, Heavy Duty Standard (HDS) J1939, among others, does not support calibrations. The Calibrations tab will still display, but a "No Calibrations 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 Calibrations tab during a session, the PRO-LINK[®] Edge 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 Calibrations.

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

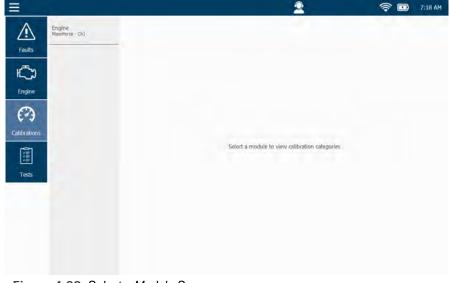


Figure 4.20 Select a Module Screen

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

NOTE:

Depending on the vehicle to which you are connected, there may be more than one module in the list on the left.

=			2	🤶 🛄 7:21 AM
	Engine MassForce - Cht	Aftertreatment		
Faults		Trip Information		
Č		EECM Manufacturing Data		
Engine		Engine Signal Enables		
\mathfrak{O}		Vehide Retarder		
Calibrations		Engine Warmup Device		
\$		Engine Crank Inhibit	Select a category to view of	alibrations
Tests		Engine Idle Shutdown Control		
		Engine Speed Control		
		Cruise Control		
		Engine/ Powertrain Warning And Protection System		
		Road Speed Limiting And Anti- Tampering		

A list of available categories is displayed.

Figure 4.21 List of Available Categories

- 3 Use your finger to scroll down the list.
- 4 Touch the screen to select the category you want (e.g., **Engine Idle Shutdown Control**).

=			2	🛜 🔝 9:35 AM
\wedge	Engine MaxeForce - Cht	Aftertreatment	late Smildawn Timer Mede	Disab
Faults		Trip Information	Engine Idle Shutdown Time	5.00 min
Ō		EECM Manufacturing Data	Engine Idle Shutdown Maximum Intake Air Temperature	111.2 °F
Engine		Engine Signal Enables	Engine Idle Shutdown Minimum Intake Air Temperature	60.8 °F
0		Vehicle Retarder	Findini (d. Smithow CALS	1400-151 (1991-199
Calibrations		Engine Warmup Device	Smart IST DDS	Enable
(Engine Crank Inhibit	Smart IST Brake	Disable
Tests		Engine Idle Shutdown Control	Smart IST Park Brake	Disable
		Engine Speed Control		
		Cruise Control		
		Engine/ Powertrain Warning And Protection System		
		Road Speed Limiting And Anti- Tampering		Program

The PRO-LINK[®] Edge displays a list of the datapoints you can calibrate for the selected category (datapoints on the left and values on the right).

Figure 4.22 List of Datapoints within a Category

5 Move on to *Calibrating a Datapoint*, next.

Calibrating a Datapoint

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

NOTE:

 $\mathbf{0}$

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:

=	2016 International - 3H	ITXYSNT9GN079906	2	†	7:12 AM
\wedge	Engine Maxiforus - Chi	Aftertreatment	Cruise Control Mode		Disable
Faults		Trip Information	Cruise Control Vehicle Speed Low Limit		35.00 mph
Ē		EECM Manufacturing Data	Cruise Control Vehicle Speed High Limit		65.00 mph
Engine		Engine Signal Enables			
(?)		Vehicle Retarder	,		
Calibrations		Engine Warmup Device			
Î		Engine Crank Inhibit			
Tests		Engine Idle Shutdown Control			
		Engine Speed Control			
		Cruise Control			
		Engine/ Powertrain Warning And Protection System			
		Road Speed Limiting And Anti- Tampering		Prog	am .

Figure 4.23 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 Limit**).

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 4.24 Calibration Screen

2 Touch within the New Value data entry field.

NOTE:

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

=										2			?	9:54 AM
			C	ruise	Control	Vehic	le Spe	ed Hig	gh Limi	it				
					Current New Minimum 1aximum	Value: Value:	30.00							
	Tab	1	2	3	4	5	6	7	8	9	0	+		
	ABC	#	s	%	8	•	1	+	()		-		
_	~\{		<	>	-	:	;			1	7	witt		_
Quit	~		1	0					1	-		0		Update
Figure 4.25	Keyb	oar	d											

The keyboard is displayed.

- 3 Use the keyboard to enter the new value (e.g., 70).
- 4 Touch the **Update** button at the bottom of the screen.

=			<u></u>	🤶 🖬 7:43 AM
A	Engine MassForce - Ch1	Aftertreatment	Cruise Control Mode	Disable
Faults		Trip Information	Cruise Control Vehicle Speed Low Limit	35.00 mph
۲ ۲		EECM Manufacturing Data	Crulse Control Vehicle Speed High Limit	70.00 mph
Engine		Engine Signal Enables		
0		Vehicle Retarder	,	
Calibrations		Engine Warmup Device		
Ê		Engine Grank Inhibit		
Tests		Engine Idle Shutdown Control		
		Engine Speed Control		
		Cruise Control		
		Engine/ Powertrain Warning And Protection System		
		Road Speed Limiting And Anti- Tampering		Program

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

Figure 4.26 List of Datapoints for the Cruise Control Category

5 To complete the calibration, and accept the new value, touch the **Program** button.

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 message is displayed reminding you that there are unprogrammed calibrations and warning you that they will be lost if you continue.

The Program feature is not universally used across all vehicle applications. Some tests will employ the Program feature, others will not.

NOTE:

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

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

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

8 Wait while the calibration is verified.

The list of datapoints is displayed again.

=			2	†	10:02 AM
\wedge	Engine MassForce - Chi	Aftertreatment	Cruise Control Mode		Disable
Faults		Trip Information	Cruise Control Vehicle Speed Low Limit		35.00 mph
Ö		EECM Manufacturing Data	Cruise Control Vehicle Speed High Limit		70.00 mph
Engine		Engine Signal Enables			
\mathfrak{O}		Vehicle Retarder			
Calibrations		Engine Warmup Device			
Î !!!		Engine Crank Inhibit			
Tests		Engine Idle Shutdown Control			
		Engine Speed Control			
		Cruise Control			
		Engine/ Powertrain Warning And Protection System			
		Road Speed Limiting And Anti- Tampering		Dos	(GANE)

Figure 4.27 List of Datapoints for the Cruise Control Category

9 Continue to calibrate other datapoints, or select a different category from the list on the left.

Tests

The PRO-LINK[®] Edge provides a wide range of special tests. However, the availability of tests is dependent on both the vehicle to which the device is connected and the module loaded (e.g., engine, transmission, etc.). The first time you select the Tests tab during the current session, you are prompted to select a module. If the selected module does not have any special tests associated with it, a informational message is displayed.

NOTE:

Not all software applications support tests. For example, Heavy Duty Standard (HDS) J1939, among others, does not support tests. If tests are not available for a specific module, the module will not display in the list of modules.

In addition, the screen associated with each test is unique to that test. Most special tests include Info Text (e.g., detailed instructions on running that particular test, quick steps for multiple routines, and test tips).

NOTE:

Look for Info Text icon in the upper-right corner of the test screen. If you see the icon, Info text is available. Just touch the icon to display the information.

Finally, Some tests require the vehicle to be in a particular state (e.g., Engine Coolant Temperature greater than 140 °F). If this is the case for the test you select, the PRO-LINK[®] Edge 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.

To run a test:

1 Start at the **Diagnostics Menu**.

=	2012 Peterbilt - 1XP4DP9X9CD138470			👱 🛜 📼 2:23 PM		
\wedge	80 ACTIVE FAULTS Engine - Paccar			7 INACTIVE FAULTS		
Faults				ine - Paccar		
Paulty	Inlet air pressure in inlet manifold - Vi ground - on ECU (D420) pin (A51)	oltage too low or short drouit to	CAN communication - Hardware or software malfunction on V-CAN1			
HT.	Brown on ceo (paso) but (apr)	DTC P0107 - Powertrain (P) - Current	DTC U1014 - Network (U) - Historia			
	Engine - Paccar		Engin	ine - Paccar		
Engine		There is a second of the	EAS-3 actuator ECU - CAN communication error			
0	Exhaust gas pressure after BPV - Voltage too low or short circuit to g on ECU (D420) pin (C81)		DTC P3845 - Powertrain (P) - Histor			
6.3		DTC P047C - Powertrain (P) - Current	Engin	ine - Paccar		
Calibrations	Engine - Paccar		AdBlu	lue pipe heating relay - Open circuit - on ECU (8375) pin (830)		
-	Exhaust gas pressure before turbine - Voltage too low or short circuit to			DTC P3910 - Powertrain (P) - Historic		
Â	ground - on ECU (D420) pin (C83)		Engin	ine - Paccar		
		DTC P0472 - Powertrain (P) - Current	Aftertreatment system - Misuse detection - Level 1			
Tests	Engine - Paccar			DTC P151A - Powertrain (P) - Historic		
	Inlet air temperature in inlet manifold - Voltage too low or short circuit to ground - on ECU (D420) pin (A43)		Engin	ine - Paccar		
		DTC P0113 - Powertrain (P) - Current	Aftertreatment system - Misuse detection - Level 2			
	Engine - Paccar		DTC P1518 - Powertrain (P) - Histori			
	Intercooler temperature - Voltage too	high or short circuit to supply - on	Engin	ine - Paccar		
	ECU (D420) pin (C17)		Aftertreatment system - Misuse detection - Level 3			
			Clear All Fau			

Figure 4.28 Diagnostics Menu

2 Select Tests from the list on the left.



Figure 4.29 To View Special Tests, Select a Module

3 Select a module from the list on the left (e.g., Engine - Paccar CH1).

The Caution screen is displayed.

 To avoid personal injury Observe all safety precautions in operator and service manuals. Put vehicle in park or neutral and set parking brake. Chock wheels. If vehicle is in motion, operator must maintain control of the vehicle while an assistant uses this diagnostic tool. 	4 Caution
 Put vehicle in park or neutral and set parking brake. Chock wheels. If vehicle is in motion, operator must maintain control of the vehicle while an assistant uses this 	To avoid personal injury
 Chock wheels. If vehicle is in motion, operator must maintain control of the vehicle while an assistant uses this 	Observe all safety precautions in operator and service manuals.
. If vehicle is in motion, operator must maintain control of the vehicle while an assistant uses this	Put vehicle in park or neutral and set parking brake.
	- Chock wheels.
OK	OK

Figure 4.30 Caution Screen

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

=	2012 Peterbilt - 1XP4	DP9X9CD138470	2	🤶 🛄 3:54 PM
	Engine Paccar - Chi	DPF Regeneration		
Faults		DPF Maintenance		
5		New Filter - DPF De-Greening		
Engine		Cleaned Filter - DPF Reinstallation		
		Dosing Injector Tests		
Engine Retarder		AFT History		
3		DEF Dosing Quantity		
Calibrations		DEF System Leak Test		
		DEF Line Heater 1 (Pressure Line)		
Tests		DEF Line Heater 2 (Return Line)		
	2	DEF Line Heater 3 (Inlet Line)		
		DEF Tank Heater Control Valve		
		Disable DEF Derate		

A list of tests is displayed for the selected module.

Figure 4.31 List of Available Tests

6 Touch the screen to select a test from the list (e.g., **Injector Code Programming**).

A Warning screen is displayed.

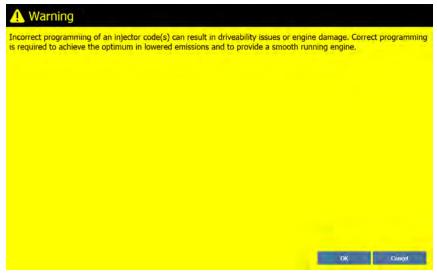


Figure 4.32 Warning Screen

7 Touch **OK** after reading the information provided.

=			2	🤶 🗊 12:18 PM
	Injec	tor Code Program	ming	0
		Current Code	Status	
	Injector 1	FEFEDD	VALID	
	Injector 2	FMFMFM	VALID	
	Injector 3	FMFMFM	VALID	
	Injector 4	FMFMFM	VALID	
	Injector 5	AAAAAK.	VALID	
	Injector 6	DEDEDE	VALID	
Quit		Swap Injectors		Write

Figure 4.33 Warning Screen

8 Touch the Info Text icon in the upper-right corner.

The Info Text screen for Injector Code Programming is displayed.

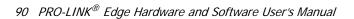
	👤 🛜 🛄 12:21 PM
Injector Code Programming	
The Injector Code Programing routine is designed to enable injector code programing following an	i injector replacement or location change.
Diesel injectors are manufactured with very tight tolerances; slight variations will always occur. Bee stamped with a code number. The electronic control module (ECM) uses this code number to dete achieve the optimum in lowering emissions and providing a smooth running engine.	
Instructions:	
Make a note of the code number associated with the injector. This code number can be on the inj replacing the injector, you must program the ECM with the new code number.	ector itself or somewhere in the packaging. After
Quick Steps:	
 Install the new injector(s). Clear the current injector code for the injector replaced. Input the new injector's code. Press the WRITE button. 	
Swap Injectors:	
This routine includes a swap function that allows the user to change the injector codes from one c characters.	vlinder to another without having to manually input
Quick Steps:	
a sector of a sector of the sector of the sector of the sector of	
Back	Print

Figure 4.34 Info Text Screen for Injector Code Programming

9 Touch the screen, and drag your finger up to scroll down through the information.

Ξ 😤 🤶 I2:21 PM
Injector Code Programming
The Injector Code Programing routine is designed to enable injector code programing following an injector replacement or location change.
Diesel injectors are manufactured with very tight tolerances; slight variations will always occur. Because of this, all new injectors are tested and then stamped with a code number. The electronic control module (ECM) uses this code number to determine how much compensation is required to achieve the optimum in lowering emissions and providing a smooth running engine.
Instructions:
Make a note of the code number associated with the injector. This code number can be on the injector itself or somewhere in the packaging, After replacing the injector, you must program the ECM with the new code number.
Quick Steps:
Install the new injector(s). Clear the current injector code for the injector replaced. J. Input the new injector's code. Press the WRITE button.
Swap Injectors:
This routine includes a swap function that allows the user to change the injector codes from one cylinder to another without having to manually input characters.
Quick Steps:
ter a ser
Back Print

Figure 4.35 Info Text for Injector Code Programming 2



- 10 (optional) Touch **Print** to save the information to a file for later reference (or to print the file to a printer if you have one installed).
- 11 When you have finished reading the information, touch **Back** to return to the test screen.

Inject	tor Code Program	ming	G
	Current Code	Status	
Injector 1	FEFEDD	VALID	
Injector 2	FMFMFM	VALID	
Injector 3	FMFMFM	VALID	
Injector 4	FMFMFM	VALID	
Injector 5	AAAAAK.	VALID	
Injector 6	DEDEDE	VALID	

Figure 4.36 Test Screen

12 Touch Swap Injectors.

NOTE:

Most tests have a **Start** button, which you use to begin the test. The Swap Injectors button (see Figure 4.36) is specific to the Paccar Injector Code Programming test.

		🤶 🗊 12:37 PM
	Swap Injector Codes	
Caricel	You can swap only two injectors at a time, Please select two:	ОК

The Swap Injector Codes screen is displayed.

Figure 4.37 Swap Injector Screen

- **13** Touch within the first data entry box.
- 14 Use the keyboard to enter an injector number.
- 15 Repeat for the second data entry box.
- 16 Touch OK.
- 17 Touch Write.

A "Write Successful" message is displayed.

18 Touch the Quit button to end the test.

The list of available tests is displayed again.

2012 Peterbilt - 1	XP4DP9X9CD138470	2	🤶 🖪 3:54 PM
Engine Paccar - Chi	DPF Regeneration		
Faults	DPF Maintenance		
÷	New Filter - DPF De-Greening		
Engine	Cleaned Filter - DPF Reinstallation		
	Dosing Injector Tests		
Engine Retarder	AFT History		
Ø	DEF Dosing Quantity		
Calibrations	DEF System Leak Test		
	DEF Une Heater 1 (Pressure Une)		
Tests	DEF Une Heater 2 (Return Une)		
	DEF Une Heater 3 (Inlet Une)		
	DEF Tank Heater Control Valve		
	Disable DEF Derate		

Figure 4.38 List of AVailable Tests

Features Available from the Drop-Down Menu

Several features are available from the drop-down menu at the top of the Diagnostics Menu.

- View Vehicle Specs (pg. 94)
- Create Report (pg. 96)
- Units (pg. 104)
- Play Recording (pg. 105)
- Logout Repair-Connect (pg. 107)
- Support (pg. 109)
- End Session (pg. 111)
- About (pg. 114)

Viewing Vehicle Specifications

To view vehicle specifications:

1 Touch the drop-down menu in the upper-left corner of the screen.



Figure 4.39 Diagnostics Menu

2 Select View Vehicle Specs.

 2012 Pretroit - 1204DP909CD138470
 Image: Control 1
 Image: Control

The Vehicle Specifications screen is displayed.

Figure 4.40 Vehicle Specifications

- 3 (optional) Once you have finished viewing the information, touch the **Print** button to send the information to a printer (or to save it to a file).
- 4 Touch the **Back Arrow** at the bottom of the screen to return to the Diagnostics Menu (Figure 4.39).

Creating a Report

To create a report:

1 Touch the drop-down menu in the upper-left corner of the screen.



Figure 4.41 Diagnostics Menu

2 Select Create Report.

The Information Selection screen is displayed.

Please select the information you would like to print,	
Vehide Info	
Faults	
Parameters [No Category Selected]	ange
Quick List	
Trip Data	
Calibrations	
System Details	
+	Print

Figure 4.42 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**, etc.).

Check marks are displayed next to your selections.

2012 Peterbilt - 1XPMDP9X9CD138470	2	🤶 🖬 2:17 PM
Please select the information you would like to print		
Vehicle Info		
Faults		
Parameters [No Category Selected]		Change
Quick List		
Trip Data		
Calibrations		
System Details		
-		Print

Figure 4.43 Check Marks Indicate Selections Made

4 (optional) 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 on your report specific parameters (e.g., **Engine - Paccar - Pressures**).

The following screen is displayed.

2012 Peterbilt - 1XP4DP9X9CD138470	2	? 1 223
Select the parameters you want to print		
Controller:		~
Category:		V
4		182

Figure 4.44 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., **Pressures**).
- 7 Touch the **OK** button at the bottom of the screen.



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

Figure 4.45 Information Selection Screen

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

2012 Peterbilt - 1XP4DP9X9CD138470	2	🤶 🗊 2:27 Pi
Please select the information you would like to print		
Vehide Info		
Faults		
Parameters [Engine: Pressures]		Change
Quick List		
Ttip Deta		
Calibrations		
System Details		
		-
+		Print

Figure 4.46 Information Selection Screen Updated

9 Touch the Print button.

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2012 Peterbit - 1/04/D0/9/XXCD1384/20

Select Printer

Select Printer

Select Printer

Net

The Select Printer screen is displayed.

Figure 4.47 Select Printer Screen

10 Touch **Next** to save the report to a file in portable document format (PDF) for later viewing or printing.

NOTE:

For information on managing your saved reports (including printing reports), see *Chapter 5: Using the Vehicle History Menu*, later in this manual.

NOTE:

For instructions on using the Add Printer button, see "Managing Printers" in *Chapter 6: Using the Settings Menu*, later in this manual.

The following screen is displayed.

2012 Peterbilt - 1XP4DP9X9CD138470	2	🛜 🖪 2:47 PM
Select Destination		
Pra-Link		
O SD Card		
O USB Drive		
		(manual)
-		Select

Figure 4.48 Select Destination Screen

- 11 Touch the screen to indicate where you want the report saved (i.e., to the $PRO-LINK^{\textcircled{R}}$ Edge, an SD card, or a USB drive).
- 12 Touch Select.



Figure 4.49 Select Destination Screen

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The Save As screen is displayed.

2012 Peterbilt - 1XP4DP9X9CD138470	2	🤶 🖬 2:55 PM
Save As		
Name: 00138470 20191015 145212		1
Type: PDF Files (*.pdf)		V
n 0000000 20180418 151344		
10000000 20191001 094603		
n draults		
20190920 110232		
20191003 151703		
20191003 175726		
		-
Cancel		ОК

Figure 4.50 Save As Screen

- **13** Touch within the **Name** field if you wish to give the report a specific name (i.e., other than the numeric name automatically assigned by the device).
- 14 Use the keyboard to enter a new name for your report, for example, **Pressures Rpt Oct 16**.
- 15 Touch OK.

The report is generated and saved to the location you specified.

- 16 Touch OK again.
- 17 The Information Selection screen is displayed again (Figure 4.46).
- 18 Touch the **Back Arrow** to return to the Diagnostics Menu (Figure 4.41).

Changing Units of Measure

To change units of measure:

1 Touch the drop-down menu.

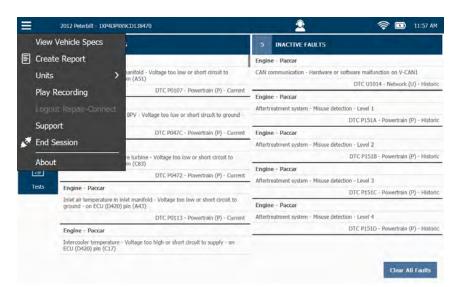


Figure 4.51 Diagnostics Menu

2 Select Units.



Figure 4.52 Diagnostics Menu



Two options are available:

- English (lbs., mph, °F)
- Metric (kg, kph, ° C)
- 3 Select the unit of measure you want PRO-LINK[®] Edge to use.

The menu closes, and the underlying Diagnostics Menu is displayed.

Play Recording

The Play Recording menu item is not available if you have not previously created a recording.

NOTE:



For more information on creating and playing a recording, see *Chapter 9*: Using Record and Playback, later in this manual.

To play a recording:

1 Touch drop-down menu available either from Main Menu or the Diagnostics Menu.

=				2	🛜 🔝 11:46 AM
Viev	v Vehicle Specs	0	Air Pressure		7.3 psi
-	ate Report		Air Pressure Pre-Compressor		14.2 psl
Unit	rs >		Exhaust Gas Pressure Pre-Turbine		7.7 psl
	out Repair-Connect		Air Pressure Pre-Turbine (Filtered)		58.0 psi
Sup	port		Exhaust Pressure after BPV		7.3 psi
💉 End	Session	le	Amblent Air Pressure		14.2 psi
Abo	ut		Ambient Pressure (Absolute)		14 psi
Tests	Fuel System		Grankcase Air Pressure (Relative)		N/A
	Turbocharger		DEF Pressure (Relative)		188,5 psi
	Voltages		DOC Inlet Pressure		37.7 psi
	Temperatures		DPF Outlet Pressure (Relative)		0 psi
	Pressures		DPF Delta Pressure		D.0 psi
			DPF Delta Pressure		-0.1 psi

Figure 4.53 Diagnostics Menu

2 Touch Play Recording.



The playback screen is displayed.

Figure 4.54 Playback Screen

- 3 Touch Play to begin the recording.
- 4 Touch Exit to return to the Diagnostics Menu (Figure 4.53).

Logout Repair-Connect

Once you have logged in to Repair-Connect, PRO-LINK[®] Edge remembers your login credentials so you don't have to enter them again. Then, you are automatically logged when you access detailed information for a fault during your active diagnostic session. This is why the Logout Repair-Connect feature is only available once you have logged into Repair-Connect for the current session.

NOTE:



For detailed information on using Repair-Connect, see *Chapter 10: Using* PRO-LINK[®] Repair-Connect, later in this manual.

To log out of Repair-Connect:

1 Touch drop-down menu located in the upper-left corner of the display.

≡			80		2	🤶 🛄 12:12 PM
	View Vehicle Specs	10113, FMI tage too low	er short circuit to g	round - on ECU (D4	20) piri (A43)	
E	Create Report	Testing	Specs	Wiring/ Locator	Remove & Install	
	Units >	et manifol	d - Voltage to	o low or short	circuit to ground - on EC	CU (D420) pin (A43)
	Play Recording				and a second of	and the second
	Logout Repair-Connect					
	Support					
	End Session					
	About	high signal	voltage on ECM	V terminal A43)		
Pos	sible Cause					
Con	nector, wiring or sensor are fa	ulty.				
Set	Condition of Fault Code					
ECN	A detects too high (more than	4.92 Volt) ou	itput voltage of	sensor.		
Res	et Condition of Fault Code					
This	rode herome inactive once d	iannostic rur	is and nasses			
	+					Print

Figure 4.55 Drop-down Menu Showing Logout Repair-Connect

2 Touch Logout Repair-Connect.

A "Logging out of PRO-LINK[®] Repair-Connect" message is displayed.

You are returned to your diagnostic session, but are no longer logged in to Repair-Connect.

	👱 🛜 🗊 12:18 PM
Engine: Fault Code Diagnostics, DTC P0113, FMI Inlet air temperature in inlet manifold - Voltage too low or short circuit to ground - on ECU	(D420) pin (A43)
Description Freszt Frame Pro-Link® (No. Infn): Repair-Connect	
Fault: Inlet air temperature in inlet manifold - Voltage too low or sho DTC: P0113	ort circuit to ground - on ECU (D420) pin (A43)
Fault Group: Powertrain (P)	
Status: Current	
Associated Parameter: None	
Code Description	
Intake Air temperature Sensor (too high signal voltage on ECM terminal A4	43)
Possible Cause	
Connector, wiring or sensor are faulty.	
Set Condition of Fault Code	
ECM detects too high (more than 4.92 Volt) output voltage of sensor.	
Reset Condition of Fault Code	
This rode become inactive once diagnostic runs and passes	
+	Print
Figure 4.56 Fault More Info Screen while	e Logged Out of Repair-Connect

NOTE:

To log back in, touch the PRO-LINK[®] Repair-Connect button at the top of the display (see Figure 4.56).

Support

You can access the Support Menu while connected to a vehicle by using the dropdown menu in the upper-left corner of the display. In addition, you can access the Support Menu by touching the Support icon located in the toolbar at the top of the display.

NOTE:

For detailed information on using the features of the Support Menu, see *Chapter 8: Using the Support Menu*, later in this manual.

To access the Support Menu while connected to a vehicle:

1 Touch the drop-down menu in the upper-left corner of the screen.

	View V	ehicle Specs			5	INACTIVE FAULTS		
E	Create	Report			Engir	ne - Paccar		
	Units			f - Voltage too low or short circuit to	CAN	communication - Hardware or software malfunction on V-CAN1		
	Play Recording DTC P0107 - Powertrain (P) - Current			DTC U1014 - Network (U) - Histori				
	Play Recording		- Engir	ne - Paccar				
Support		BOX .	BPV - Voltage too low or short circuit to ground -		reatment system - Misuse detection - Level 1			
		Life Y .			DTC P151A - Powertrain (P) - Hist			
		DTC P047C - Powertrain (P) - Current	Engir	ne - Paccar				
K End Session			Aftertreatment system - Misuse detection - Level 2					
				ne - Voltage too low or short circuit to	DTC P1518 - Powertrain (P) - Histor			
_	About		In (C8		Engir	ne - Paccar		
				DTC P0472 - Powertrain (P) - Current	_ Aftert	reatment system - Misuse detection - Level 3		
1	Tests	Engine - Paccar			DTC P151C - Powertrain (P) - Histo			
		Inlet air temperatu ground - on ECU (ifold - Voltage too low or short circuit to 3)	Engir	ne - Paccar		
				DTC P0113 - Powertrain (P) - Current	Aftert	reatment system - Misuse detection - Level 4		
	Engine - Paccar			DTC P151D - Powertrain (P) - Histori				
		Intercooler temper ECU (D420) pin (C		too high or short circuit to supply - an				

Figure 4.57 Diagnostics Menu

2 Select Support.

2 🤶 🔟 1:17 PM = Get Support Remote Access 800-311-5452 Phone: Remote Access: Gateway Available: Available Device Installed Applications This device is registered to 'Max Hapsburg' Account Allison Transmissions - 1K 2K Unregistered, 10 trials remaining Name: NEXPL2_10_00012 Version 1.6.0.27 Serial Number: 12 \odot Allison Transmissions - CEC 1 Unregistered, 10 trials remaining Product ID: 10 Version 1.5.0.5 Bundle Version: 0.0.27 Tutorials OS Version: 7.0.7 Allison Transmissions - Gen4 Unregistered, 10 trials remaining Version 2.2.0.22 Bootloader Version: 01.05 ? 0.016101 Firmware Version: Allison Transmissions - Gen5 Registry Version: 1.1 Version 1.1.0.31 Cable ID: 493048 Allison Transmissions - WTEC Unregistered, 10 trials remaining Version 1,6.0.26 Network 192.168.255,64 IP Address: Bendix ABS Unregistered, 10 trials remaining 84:25:3F:4F:2D:34 Version 2.0.0.88 MAC Address: CAT ACERT Engines Version 2.2.0.21

The Support Menu is displayed.

Figure 4.58 Support Menu

3 Touch the Back Arrow to return to the Diagnostics Menu (Figure 4.57).

Ending Your Diagnostics Session

To end your diagnostics session and disconnect from the vehicle, you use the drop-down menu in the upper-left corner of the screen.

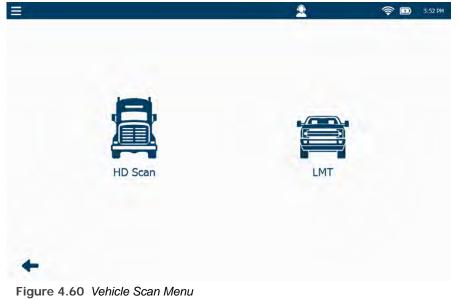
To end your diagnostics session:

1 Touch the drop-down menu.



Figure 4.59 Diagnostics Menu

2 Select End Session.



The Vehicle Scan Menu is displayed.

- 3 Touch the Back Arrow.

The Main Menu is displayed.

≡			2	<u></u>	3:41 PM
	۲ Vehicle Scan		Vehicle History		
	Ç Settings	Applications	Support		

Figure 4.61 Main Menu

From this menu you can:

- -Scan another vehicle, and start another diagnostic session (see "Scanning a Vehicle" in Chapter 3: Getting Started, of this manual).
- -View Vehicle History
- -Navigate to the Settings menu (see Chapter 6)
- -Navigate to the Applications menu (see Chapter 7)
- -Navigate to the Support menu (see Chapter 8)
- —Power down the PRO-LINK[®] Edge

NOTE:

- To power down the PRO-LINK[®] Edge, press and hold the power button on the front of the tool.

About PRO-LINK[®] Edge

To view information about PRO-LINK[®] Edge:

1 Touch the drop-down menu at the top of the screen.

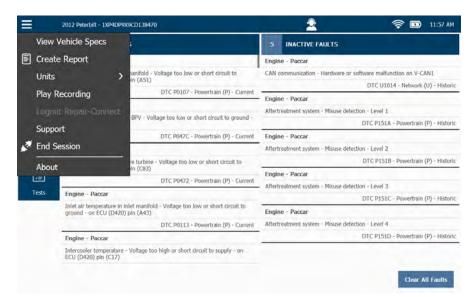


Figure 4.62 Diagnostics Menu: Drop-down Menu Selected

2 Select About.

🛜 🔝 1:49 PM 2 \triangle Engine - Paccar Engine - Paccar CAN communicat Inlet air pressure in Inlet manifold ground - on ECU (D420) pin (A51) Ę٣, DTC U1014 - Ne Engine - Paccar Engine - Paccar - Level 1 PRO-LINK® Edge Exhaust gas pressure after BP on ECU (D420) pin (C81) DTC P151A - P Bundle Version: 0.0.27 Total Physical Memory: 847,312 KB Engine - Paccar Used Virtual Memory: 41,664 KB DTC P1518 - Pov Exhaust gas pressure before turbi ground on ECU (D420) pin (C83 (?) Engine - Paccar Copyright Snap-on Incorporated 2018 Inlet air temperature in inlet manif ground - on ECU (D420) pin (A43 Engine - Paccar n - Level 4 Engine - Paccar oo high or short circuit to supply - on Intercooler temperature ECU (D420) pln (C17)

The **About** information box is displayed.

Figure 4.63 About Information Box

3 Touch the **Close Button** in the upper-right corner of the box.

The information box closes, and the underlying Diagnostics Menu is displayed.

Chapter 4 • Using the Diagnostics Menu

Chapter 5

Using the Vehicle History Menu



- ▼ Managing Saved Reports, page 118
- ▼ Deleting a Report, page 120
- ▼ Moving a Report, page 121
- 🔻 Printing a Report, page 122
- Previewing a Report, page 125

This chapter provides detailed instructions for using the Vehicle History Menu to manage reports.

NOTE:

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

Managing Saved Reports

You access the Vehicle History, which displays the Manage Reports screen, 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 Overview*, earlier in this Manual.

From the Manage Reports screen you can do the following:

- Delete reports (pg. 120)
- Move reports (pg. 121)
- Print reports (if you are connected to a printer) (pg. 122)
- Preview reports (pg. 125)

To manage your saved reports:

1 Select Vehicle History from the Main Menu (Figure 5.1).

The Manage Reports screen is displayed.

	2	🤶 💷 2:32 F
Manage Reports		Sort by: Name (A-Z)
8LZ83410 20190919 142333.pdf		Thursday, September 19, 2019
+	Ditteller Minwe	Prod Preview

Figure 5.2 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.

		2	<u></u>	3:2
Manage Reports	_		Sort by: Name (A-Z)	
142333.pdf 81.283410 20190919 142333.pdf			Thursday, Septe	mber 19, 21

Figure 5.3 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[®] Edge 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.

		2	<u></u>	3:25
Manage Reports			Sort by: Name (A-Z)	_
81.283410 20190919 142333.pdf			Thursday, Septer	mber 19, 20
+	Delete	Move	Print	Preview

Figure 5.4 Selection Highlighted

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

The **Move** button is activated.

3 Touch Move.



The Select Destination screen is displayed.

Figure 5.5 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[®] Edge to your USB memory stick, and you are returned to the **Manage Reports** screen (Figure 5.2).

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[®] Edge to print to a printer, refer to "Managing Printers" in Chapter 6: *Using the Settings Menu*, later in this manual.

To print a report:

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

Your selection is highlighted.

₿		2	((1-	3:25 PM
Manage Reports			Sort by: Name (A-Z)	v
81,283410 20190919 142333.pdf			Thursday, Sep	otember 19, 2019
2	Delete	Move	Print	Preview

Figure 5.6 Selection Highlighted

2 Touch the **Print** button.



The Select Printer screen is displayed.

Figure 5.7 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.

		2	1	3:25
Manage Reports			Sort by: Name (A-	-Z)
8LZ83410 20190919 142333.pdf			Thursday, S	September 19, 20
+	Delete	Move	Print	Preview

Figure 5.8 Selection Highlighted

2 Touch Preview.

The preview is displayed.

83410 20190923	153508.pdf	 ▲ 1/2
	Monday, September 23, 2019 3:35:16 PM 8z.283410 20190823 153508.pdf	
VEHICLE INF Engine - Demo - Vehicle Mala: Fere ECM Senal Numbe ECM Model: DEMO ECM Make: Nexio VIN: 1FUDEECV18; FAULT CODE ACTIVE FAULT	Vehicle Info patient 11 A280CVY 289110 5	
Engine - Demo Fault Description: FMI Description:	4	
¥ID 84		
FID 84 Engine - Demo Fault Description: FMI Description: FID 91	Percent Accelerator Pedal Position Voltage > Normal PM1 3	

Figure 5.9 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 5.7).
 - Touch the **Back Arrow** at the bottom of the screen return to the Manage Reports screen (Figure 5.2).
- 4 Touch the **Back Arrow** again to return to the Main Menu (Figure 5.1).

Chapter 6

Using the Settings Menu



- ▼ The Settings Menu, page 128
 - ▼ Managing Wireless Networks, page 130
 - ▼ Connecting to a Network, page 130
 - ▼ Adding a Wireless Network, page 132
 - ▼ Changing Wireless Settings, page 134
 - 🔻 Check Wireless Status, page 137
 - 🔻 Configure Proxy, page 138
 - ▼ Managing Printers, page 141
 - ▼ Adding a Printer and Printing a Test Page, page 142
 - ▼ Set as Default, page 145
 - 🔻 Delete, page 145
 - ▼ Change Settings, page 145
 - Setting the Date and Time, page 146
 - ▼ Calibrating the Touchscreen, page 148

This chapter provides detailed instructions for using the PRO-LINK[®] Edge Settings Menu.

NOTE:

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

The Settings Menu

The procedures in this chapter assume the following:

- The PRO-LINK[®] Edge is not connected to a vehicle.
- You are performing the procedures as a system administrator in a non-shop setting.

The Settings Menu is accessed from the Main Menu.





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

1 Touch **Settings** at the bottom of the menu.

The Settings Menu is displayed.

=				2	1		3:42 PM
Wireless	Wireless Networks						
	S8SPublic						.ai
Printers	WIVU-109FA9CA8DBE						al
圃の	WIVU-109FA9CA8250						ali
Date/Time	USBLink2_kurt_m2					- 1	al
5	U\$8Link2_173						afi j
Touchscreen	USBLink2_10375						al
	Add Windess Network	Diange Witeless Settings	Check Wireless Status	Configure Proxy			
+				Modify	Farget	Con	net

Figure 6.2 Settings Menu

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

- Manage Wireless Networks (pg. 130)
- Manage Printers (pg. 141)
- Set the Date and Time (pg. 146)
- Configure the Touchscreen (pg. 148)

NOTE:

Touch the **Back Arrow** at the bottom of the screen to return to the Main Menu (Figure 6.1).

Managing Wireless Networks

The following options are available:

- Wireless Networks Connecting to a Network (pg. 130)
- Add Wireless Network (pg. 132)
- Change Wireless Settings (pg. 134)
- Check Wireless Status (pg. 137)
- Configure Proxy (pg. 138)

Connecting to a Network

When you select Settings from the Main Menu, a list of available networks is displayed.

			2	1		3
Wireless Networks						
sasPublic						ati
WIVU-109FA9CABDBI						al
WIVU-109FA9CAB250)					dÌ
me USBLink2_kurt_m2					- 10	ali
USBLink2_173						afi
USBLink2_10375						đ
Add Windess Network	Change Wireless Settings	Check Wireless Status	Configure Proxy			
2			Modify	Forget	Com	and it



NOTE:

You can use the slider in the upper-right corner of the screen to turn WiFi off. Touch the slider again to turn WiFi back on (and to display a list of available networks).

To connect to a wireless network:

1 Touch the screen to highlight the network in the list you wish to connect to (e.g., SBSPublic).



If the network you want to connect to does not appear in the list, you can add it. Touch the **Add Wireless Network** link near the bottom of the screen and follow the prompts.

2 Touch the **Connect** button.

The Add Wireless Network screen is displayed.

3 Touch Connect after entering the required information (e.g., a password if required.

The screen is refreshed and the status is updated to "Connected."

				2	1	3
	Wireless Networks					
reless	S8SPublic Connected					al
nters	WIVU-109FA9CABDBE					al
Ð	WIVU-109FA9CA8250					đ
Time	USBLink2_kurt_m2					ali
.	USBLink2_173					all
iscreen	USBLInk2_10375					àÌ
	Linksys20791-guest					all
	Add Wireless Network	Change Witeless Settings	Check Wirelnss Status	Configure Proxy		
-				Modify	Forget	Connect

Figure 6.4 Wireless Status: Connected

NOTE:

To modify network settings, select the network and touch the **Modify** button. To disconnect from the wireless network to which you are currently connected, select the network and touch the **Forget** button.

Adding a Wireless Network

If the network you want to connect to does not appear in the list displayed on the Wireless Networks screen (see Figure 6.3), you can add it.

NOTE:

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. There is required information that you will need to gather prior to proceeding.

To add a wireless network:

1 Touch Add Wireless Network at the bottom of the Wireless Networks screen (see Figure 6.3).

=		2		43 PM
Add Wireless Net	work			
Wireless Network Name:	Hidden			
Authentication:	Open V			
Printers Security:	None			
Password Index:	×			
Password:				
Date/Time	Show Password			
L5				
Touchscreen				
4			Promet	

Figure 6.5 Add Wireless Network

- 2 Fill in the following fields:
 - -Network Name

Check the Hidden check box to hide the network name.

- -Authentication (select from the drop-down menu)
- —Security (i.e., select the type of security that safeguards the network from the drop-down menu)

- -Password Index (if appropriate)
- —Password
- -Check the Show Password check box if you want to display the password, otherwise leave it empty.
- 3 Tap Connect.

The Wireless Networks screen is displayed (Figure 6.3).

Changing Wireless Settings

You use the Configure Wireless Adapter screen if you want to change what type of IP address your PRO-LINK[®] Edge 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. However, you can change the DNS settings in either automatic or manual mode.

To assign a static IP address:

1 Select Change Wireless Settings from the Network Settings screen (Figure 6.3).

		2	<u></u>	3:44 PM
Wireless Printers Deter/Time Touchscreen	Configure Wireless Adapter Obtain IP Address Manually IP Address: Subnet Hask: Gateway:	DNS Primary DNS:		
+			A	pply

Figure 6.6 Configure Wireless Adapter

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.

=		2		(9:44 AM
Wireless	Manually Secondary DNS:					
Printers	IP Address:					
Touchscreen	Tab 1 2 3 4 5 6 7 8	9	0			
	ABC # \$ % & * - + ()	~1			
-	~ / @	-	2		Ap	pry

Figure 6.7 Screen with Keyboard

- 4 Use the keyboard to enter the information.
- 5 Touch within the **Subnet Mask** data entry field, and enter the information.
- 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 Apply.

The Wireless Networks screen is displayed.

=				2	4	🛜 🖪	3:42 PM
Wireless	Wireless Networks						
-	585Public Connected						ati
Printers	WIVU-109FA9CABDBE						al
画の	WIVU-109FA9CAB250						đ
Date/Time	USBLink2_kurt_m2						al
	USBLink2_173						af]
Touchscreen	US8Link2_10375					2	ai
	Linksys20791-guest						æ
	Add Winnless Network	Change Witeless Settings	Check Wireless Status	Configure Proxy			
+				Modify	Forget	Con	tea

Figure 6.8 Wireless Networks

Check Wireless Status

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

- Address Type
- IP Address
- Subnet Mask
- Default Gateway
- DNS
- MAC Address
- SSID
- Connection Status

To view information about your network settings:

1 Select **Check Wireless Status** from the Wireless Networks screen (Figure 6.8).



Figure 6.9 Network Adapter Status Screen

2 Touch the **Back Arrow** at the bottom of the screen to return to the Wireless Networks screen (Figure 6.8).

Configure Proxy

If your local network is configured using a proxy server, you will need to enter information to tell $PRO-LINK^{®}$ Edge 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. There is required information that you will need prior to proceeding.

To enter proxy settings:

1 Select Configure Proxy from the Wireless Networks screen (Figure 6.8).

=		2	†	3:45 PM
Wireless Driaters Date/Time	Configure Proxy Use Proxy Server Server: Poet: Requires Authentication Usemanice Pussword: Domain:			
Toudiscreen			App	ply

Figure 6.10 Configure Proxy

- 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.

		11 A
Configure Proxy		
Use Proxy Server		
Server:		
Port:		
Requires Authentication		
Username:		
Password:		
Domain:		
Tab q w e	rtyu	i o p 🗲
123 a s d	fgh j	k I 🛶
Shift z x c	v b n	m , . Shift
~		✓

Figure 6.11 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:

 - —Password
 - —Domain
- 8 Touch Apply.

2 🤶 🗈 3:42 PM = Ŷ Wireless Networks SBSPublic Connected ati. 6 WIVU-109FA9CABDBE at Printers WIVU-109FA9CAB250 di 菌❷ Date/Time USBLink2_kurt_m2 ali USBLink2_173 aff ouchse US8LInk2_10375 đ Linksys20791-guest all Add Wireless Network Change Wireless Settings Check Wireless Status Configure Proce

The Settings Menu is displayed.

Figure 6.12 Settings Menu

Managing Printers

=			2	†	3:43 PM
Wireless	Manage Printers				
Printers	Save to File				-
Date/Time					
Touchscreen					
	Add Printer				
+		Fried Test Pass	fail or fieldal	Seite Comp	Sattings

Figure 6.13 Manage Printers Screen

You use the Manage Printers screen to do the following:

- Add Printer and Print a Test Page (pg. 142)
- Set as Default (pg. 145)

Use this to set your default printer. It also enables you to set your print default to either print the information to a printer or to save it to a file (e.g.,a PDF).

- Delete (pg. 145)
- Change Settings (pg. 145)

NOTE:

You can add multiple printers.

Adding a Printer and Printing a Test Page

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 **Printers** from the Settings Menu (Figure 6.12).

=				2		🖪	3:43 PM
Wireless Drinters	Manage Printers			2			
Date/Time							
Touchscreen							
	Add Printe:						
+		Print	(m) Passe lia	l er fielault	Okjalis -	(Changer)	Settings

Figure 6.14 Manage Printers Screen

2 Touch the Add Printer link.

The Add Printer screen is displayed.

=			2	Image:	3:46 PM
Wireless Printers	Add Printer Printer Name: Port: USB	Driver: Network Path:	His POL 3		
Date/Time	Lisemane: Password: Domany:				
+				Ād	ld

Figure 6.15 Add Printer Screen

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

The keyboard is displayed.

- 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:

 - —Password
 - -Domain

10 Touch Add.

=			2	<u> </u>	4:00 PM
Wireless	Manage Printers				
Printers	Save to File				-
茴 Date/Time					
Touchscreen					
Toursuleen					
	Add Pointer				
+		Frint Test Page	Set as Default	Opinies Champers	ettings

Figure 6.16 Manage Printers Screen with Printer Added

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



Figure 6.17 Printer Highlighted

- 12 Touch Print Test Page to make sure you can print to the printer.
- 13 Touch OK.

NOTE:



If you could not connect to the printer, touch **Change Settings** and check the information you entered on the Add Printer screen (Figure 6.15). Make any necessary changes, and then try printing a test page again.

Set as Default

Use the Set as Default button to set your default printer, or to set your print default to Save as File (e.g., a PDF).

To set a printer as your default printer:

- 1 Highlight the printer you added (see Figure 6.17).
- 2 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.

Delete

Use the Delete button to delete a printer. For example, you no longer wish to use that printer.

To delete a printer:

- 1 Highlight the printer you wish to delete (see Figure 6.17).
- 2 Touch Delete.

Change Settings

Use the Change Settings button to make any changes to the printer settings you entered on the Add Printer screen (see Figure 6.15). For example, you were unable to print a test page.

To change printer settings:

- 1 Highlight the printer you added (see Figure 6.17).
- 2 Touch Change Settings.
- 3 Make any necessary changes.
- 4 Touch Update.
- 5 Touch Print Test Page again to see if you can print to the printer.

Setting the Date and Time

From time to time, you may need to adjust the settings for your particular time zone and for daylight savings.

To adjust the date and time settings:

1 Start at the Settings Menu.

=				2	†	3:42 P
	Wireless Networks					
Wireless	S8SPublic Connected					al
Printers	WIVU-109FA9CABDBE					al
目の	WIVU-109FA9CAB250					đ
Date/Time	US8Llink2_kurt_m2					ali
5	U\$8Link2_173					all
ouchscreen	US8Link2_10375					al
	Linksys20791-guest					all
	Add Winnless Network	Change Wheless Settings	Check Wireloss Status	Configure Proxy		
+				Modify	Furget	Connect

Figure 6.18 Settings Menu

2 Select Date/Time.

= 2 🛜 🔝 3:42 PM \$ Set Date / Time Wireless Date Day: 💷 🗸 Month: Printers O AM O PM linutes: 0 V Hour: 1 圖❷ Time Zon Automatically adjust clock for daylight time outhre Apply

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

Figure 6.19 Set Date / Time Screen

NOTE:

The date and time for the device is automatically reset each time the device connects to the Internet.

- 3 Use the drop-down box to select the appropriate **Time Zone** for your location.
- 4 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.
- 5 Touch Apply.

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 Select Touchscreen from the Settings Menu (Figure 6.19).

		🤶 🗊 3:43 PM
Wireless Printers Printers Date/Time	Calibrate Touchscreen If your device is not responding properly to your taps, you may need to calibrate your screen. Calibration involves tapping the center of a target. If you miss the center, keep your finger or stylus on the scre then lift. To start, top Calibrate.	een, slide it over the target's center, and
+		Calibrate

Figure 6.20 Calibrate Touchscreen

- 2 Touch Calibrate to start.
- 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 6.21 Final Calibration Screen

5 Touch anywhere on the screen to save the calibration.

Chapter 6 • Using the Settings Menu

Chapter 7

Using the Applications Menu



- ▼ Introduction to the Applications Menu, page 152
 - ▼ Available Upgrades, page 153
 - 🔻 Available Apps, page 154
 - ▼ Coming Soon, page 154
 - ▼ Installed Apps, page 155
- 🔻 Register Apps, page 157

This chapter provides detailed instructions for using the Applications Menu.

NOTE:

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

Introduction to the Applications Menu

The Applications Menu is accessed from the Main Menu.



Figure 7.1 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 Overview*, earlier in this Manual.

The Applications Menu displays the following choices:

- Available Upgrades (pg. 153)
- Available Apps (pg. 154)
- Coming Soon (pg. 154)
- Installed Apps (pg. 155)
- Register Apps (pg. 157)

Available Upgrades

When you select Applications from the Main Menu, the default display is the Available Upgrades screen. Other Applications Menu selections are available on the left side of the display.

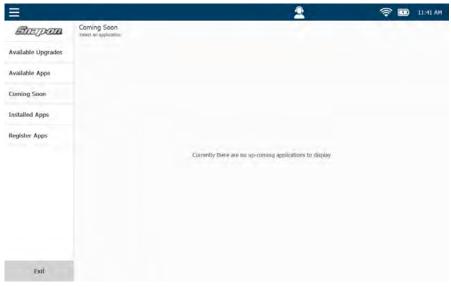


Figure 7.2 Applications Menu Showing the Default System Displayed

As software upgrades are available for installation on the device, they are included in this list. Select the title, and touch Install

Touch Exit at the bottom of the screen to return to the Main Menu (Figure 7.1).

Available Apps

A list of applications available for installation is displayed. Select the title, and touch Install.

Coming Soon

A list of software applications soon to be released is displayed. Specifications, including special tests and vehicle coverage are included in the description.

Installed Apps

When you select Installed Apps a list of all the applications installed on the device is displayed.

=		2	🛜 🛄 11:52 AM
Smpon.	Installed Apps Select an application:		
Available Upgrades	Allison Transmissions - 1K 2K		>
Available Apps	Allison Transmissions - CEC 1 Registered		>
Coming Soon	Allison Transmissions - Gen4		>
Installed Apps	Allison Transmissions - Gen5		>
Register Apps			
	Allison Transmissions - WTEC Registered		>
	Bendix ABS Registered		>
	CAT ACERT Engines		>
	CAT Electronic Engines		>
	Cummins Registered		>
Exit	DDC 2, 3, 4, 5 Engines		>

Figure 7.3 Installed Apps Screen

The registration status for each application is displayed. An indication of the number of available trials is also displayed (if the application is not registered).

NOTE:

A list of applications installed on the device is also displayed on the Support Menu. See Chapter 8: *Support*, later in this manual.

When you select a title from the list, an Installed Application Detail screen is displayed (see Figure 7.4) with detailed information about the selected application. You can also use the Installed Application Detail screen to do the following:

- Register an application (if not already registered)
- Install an update (if an update is available)
- Uninstall the application (not recommended)

To select an application and view detailed information about it:

1 Touch a title on the list to select it (e.g., CAT ACERT Engines).

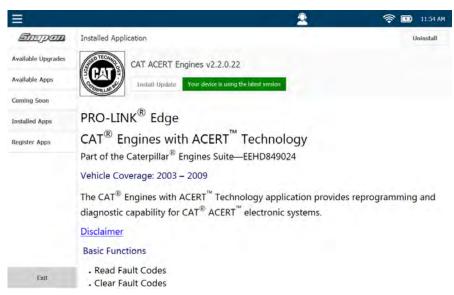


Figure 7.4 Installed Application Detail Screen

2 Touch the screen, and drag your finger up to scroll down the information.

The **Install Update** button at the top of the display is active when an update is available. Touch the button to install.

NOTE:

Both software and system updates (e.g., system bundles) are available whenever you see the Update Available icon in the toolbar at the top of your screen. Touch the icon and an Update Screen is displayed. Touch the Install Now button to install all of the updates in the list.

If, however, you choose to install a single title from the list, use the Installed Application Detail screen for that title (e.g., Figure 7.4).

To uninstall an application, touch the **Uninstall** button at the top of display (see Figure 7.4). However, uninstalling an application is not recommended.

Register Apps

The Register Apps button enables you to register a software title for which you already have a Product Key. Product keys are printed on stickers, and are located inside the CD case/trifold that you received when you purchased the application.



If you no longer have the CD case/trifold for the application you wish to register, contact the Snap-on dealer from whom you purchased the application.

NOTE:

Prior to registering an application, you must first create an account. In addition, you must have previously registered your device. For information on creating a user account see *Chapter 8: Using the Support Menu*.

To register an application using the Register Application screen:

1 Touch the Register Apps button on the Applications Menu.



Figure 7.5 Register Application Screen

- 2 Touch within the first of the Product Key data entry boxes, and use the keyboard to enter the product key for the application you wish to register.
- 3 Touch Register Application, and follow the prompts.

Chapter 7 • Using the Applications Menu

Chapter 8

Using the Support Menu



- Introduction to the Support Menu, page 160
 - ▼ System, page 161
 - Device Registration and Device Information, page 162
 - ▼ Enabling Remote Access, page 165
 - ▼ Updating Your Account Information, page 166
 - Creating a New Account, page 167
 - 🔻 Tutorials, page 170
 - ▼ Troubleshoot, page 171
 - ▼ Scan Vehicle Logging, page 172
 - ▼ Manual Scan, page 172
 - ▼ User Interface Logging, page 175
 - 🔻 Demo Scan, page 175
 - ▼ Bus Diagnostics, page 176

This chapter provides detailed instructions for using the features of the Support Menu.

NOTE:

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

Introduction to the Support Menu

The Support Menu is accessed from the Main Menu.

3		2	†	3:41 PM
		0		
الريحي		**		
اتىرىا				
Vehicle Scan		Vehicle History		
Venicle Scarr		venicie mistory		
1.00				
Ö.		2		
Settings	Applications	Support		

Figure 8.1 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 Overview*, earlier in this Manual.

The menu displays the following choices:

- System (pg. 161)
- Account (pg. 166)
- Tutorials (pg. 170)
- Troubleshoot (pg. 171)

System

When you select Support from the Main Menu, the default display is the System screen. Other Support Menu selections are available on the left side of the display.

	Get Support		Remote Access	
the second s	Phone:	800-311-5452	Remote Access:	
tem			Gateway Available: Available	
· ·	Device			
	This device has not been registered	Register Device	Installed Applications	
e 1.5	Name:	NEXPL2_10_00014	Allison Transmissions - 1K 2K Unregistered, 10 trials remaining	Version 1.6.0.27
	Serial Number:	14	Unregistered, 10 bias semaning	
1	Product ID:	10	Allison Transmissions - CEC 1	Version 1.5.0.
	Bundle Version:	0.0.27	Minon Unregistered, 10 trials remaining	version 1.5.0.
	OS Version:	7,0.7	Allison Transmissions - Gen4	
	Bootloader Version:	01.05	Allison Transmissions - Gen4 Unregistered, 10 trials remaining	Version 2.2.0.2
	Firmware Version:	0.016101		
	Registry Version:	1.1	Allison Transmissions - Gen5 Unregistered, 10 trials remaining	Version 1.1.0.3
	Cable ID:	493048	Constitution of the Consti	
			Allison Transmissions - WTEC	Version 1.6.0.2
	Network		Almon Unregistered, 10 trials remaining	1
	IP Address:	192.168.255.64	Bondix Bendix ABS	
	MAC Address:	84:25:3F:4F:2D:34	Unregistered, 10 triols remaining	Version 2.0.0.8
			CAT ACERT Engines	Version 2.2.0.2
			Unregistered, 10 trials remaining	Version 2.2.0.2

Figure 8.2 Support Menu Showing the Default System Screen

The System screen is divided into five sections:

- Get Support (pg. 162)
- Device information, including registration status(pg. 162)
- Network information (pg. 164)
- Remote Access (Enabled/Disabled) (pg. 165)
- A list of Installed Applications (pg. 165)

Touch the **Back Arrow** at the bottom of the screen to return to the Main Menu (Figure 8.1).

Get Support

In the upper-left portion of the screen a Support telephone number is displayed (see Figure 8.2).

You can reach Technical Support by calling (800) 311-5452, or you can send an e-mail to the following address:

hdsupport@snapon.com

Device Registration and Device Information

The following information is displayed in the Device portion of the screen:

- Device Registration Status (including a **Register Device** button if the device is not yet registered)
- Name (i.e., the device name)
- Serial Number
- Product ID
- Bundle Version
- Operating System (OS) Version
- Bootloader Version
- Firmware Version
- Registry Version
- Cable ID

To register your device:

1 Touch the **Register Device** button in the Device portion of the screen (see (Figure 8.2).

The Login screen is displayed.

	<u></u>	🤶 🖪 3:50 PM
System Login Username: Password: Show Password		
Tratorials LforgoLmy Desaward Desate Design account Troubleshoot		
+		lages

Figure 8.3 Login Screen

NOTE:

If you *do not* have an existing account with a Username and Password, click on the **Create new account** link, and follow the prompts to create an account. See *Creating a New Account*, later in this chapter.

- 2 Touch within the Username field.
- 3 Use the keyboard to enter your username.
- 4 Touch within the **Password** field, and enter your password.

NOTE:

You can touch the **Show Password** check box to display the password you entered.

- 5 (optional) If you cannot remember your password, touch I Forgot My **Password** and follow the prompts to reset your password.
- 6 Touch the Login button in the lower-right corner of the display.

A Login Successful message is displayed.

7 Touch Yes to register the device to the account you entered.



Figure 8.4 Device Successfully Registered

8 Touch OK to confirm.

The **Support Menu** is displayed (Figure 8.2).

Network

The following information is displayed in the Network portion of the screen (see Figure 8.2):

- IP Address
- MAC Address

Enabling Remote Access

The Remote Access feature enables Technical Support to connect to your PRO-LINK[®] Edge remotely to assist you in resolving support issues.

To contact Technical Support, call (800) 311-5452, or you can send an e-mail to the following address: hdsupport@snapon.com

NOTE:

To use this feature, you must have Internet connectivity.

To enable Remote Access:

1 Touch the **Remote Access** slider located in the upper-right corner of the display (see Figure 8.2).

The slider moves to the right and changes from grey to blue, indicating that Remote Access is enabled. Your Technical Support representative can now connect to your device to assist in resolving your support issue.

Installed Applications

The Installed Applications portion of the screen displays a list of applications installed on the device (see Figure 8.2). Touch the screen to scroll through the list. A note indicating the registration status of each application is included in the list (for example **Unregistered**, **10 trials remaining**).

NOTE:

To register an application, navigate to the Applications Menu (see Chapter 7, earlier in this manual). Then, touch **Installed Applications**.

Updating Your Account Information

When you select Account from the Support Menu (Figure 8.2), the Account Login screen is displayed. From here you can access and update your account information (e.g., username, company name, address, etc.).



D

The device must be registered to access the Account Login screen.

To update your user account information:

1 Touch the Account tab located on the left side of the display.

=		2	†	12:04 PM
System Account	Login Username: Must Hamiburg Pessword: Show Password			
Tutorials	L forgot.me: passwerd			
+			Log	P4

Figure 8.5 Login Screen

- 2 Touch within the **Username** field.
- 3 Use the pop-up keyboard to enter your **Username**.
- 4 Touch within the **Password** field, and enter your password.

NOTE:

You can touch the **Show Password** check box to display the password you entered.

5 Touch the Login button.

12:06 PM Update User Account · required User Details Max von Hapsburg Royal Garage Full name Company name Email: Country: United State \odot 1235436789 Address: 2950 Watervie Phone: Address 2: Tutorials City: Rochester Hils State: Zip Codei 48309 Update

The information is authenticated, and the **Update User Account** screen is displayed.

Figure 8.6 Update User Account Screen

- 6 Review the information displayed, and make any necessary changes.
- 7 Touch Update.

A "User account updated successfully" message is displayed.

8 Touch OK.

The Login screen is displayed (Figure 8.5).

Creating a New Account

If you don't already have an account with a username and password, you can create one using the Account screen.

To create a new account:

1 Select Account from the menu on the left side of the Support Menu.

The Login screen is displayed.

≡	2	2	†	3:50 PM
System Account	Login Username: Password: Show Paseword			
Tutorials	LlorgoLmy persent			
+			lan	

Figure 8.7 Login Screen

2 Touch Create new account.

=				2	-	†	10:56
System	Create User Account						* requ
	User Details			Company Details			
	*Username:			Company name:			
Account	Password:			Country:	United States	\sim	
\bigcirc	Confirm password:			Address:			
Tutorials	* Full name:			Address 2:			
rutorials	Email:			* Cityo			
(?)	Phone:			* State:			
Troubleshoot				* Zip Code:			
_				Franchisee:		\sim	
+						C	Greate
Figure	8.8 Creat	e User Aco	count Screen	1			
NOTE	:						
Requi	red fields a	are indica	ted with a re	ed asterisk			

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3 Touch within each field, and use the keyboard displayed to enter the information.

NOTE:

Passwords must be at least six (6) characters in length.

If you select United States or Canada in the Country field, the Franchisee field is displayed at the bottom of the list of Company Details. Select the appropriate franchisee name from the list, or scroll down to the bottom of the list and select **Other**.

- 4 Review the information to ensure that it is accurate.
- 5 Touch Create.

The new account is created, and a "Are you sure you want to register this device to this account?" is displayed.

6 Touch Yes.



Figure 8.9 Device Successfully Registered

7 Touch OK.

The Login screen is displayed (Figure 8.7).

Tutorials

When you select Tutorials from the Support Menu (Figure 8.2), the Tutorial Videos screen is displayed.

		2	🤶 🗈 3:51 PM
	Tutorial Vidéos	Note: It is recommended	t that you use ear buds to listen to videos
2	Module 01 - Introduction and Navigation		
xount	Module 02 - Registration and Updates		
D	Module 03 - Diagnostic Trouble Codes		
ortals	Module 04 - Data Lists and Graphing		
	Module 05 - Vehicle Calibrations		
hoot	Module 06 - Setup and Configuration		
	Module 07 - Repair-Connect		
	Module 08 - Data Recording and Playback		
-			Play

Figure 8.10 Tutorial Videos Screen

To play a video:

- 1 Touch the screen to select a title.
- 2 Touch Play.

During the video, you can pause. You can also adjust the volume level for the audio. Headphones or ear buds are recommended.

3 Touch the Back Arrow to return to the Tutorial Videos screen (Figure 8.10).

Troubleshoot

When you select Troubleshoot from the Support Menu (Figure 8.2), the following menu is displayed.

=		👱 🛜 📼 3:50 PM
	Scan Vehicle Logging	User Interface Logging
System	Enable to create a log file that contains information about the vehicle scan sequence.	Enable to create a log file that records actions performed in the user interface.
\bigcirc	Enable	Enable
Account	Manual Scan	Demo Scan
\bigcirc	Allows customization of the vehicle scan sequence. This can be useful for bypassing issues that occur during an automatic vehicle scan.	Allows testing the features and functionality of the tool without requiring a live vehicle connection.
Tutorials	Scan	Scan
(?)		Bus Diagnostics
Troubleshoot		Check that the vehicle communication bus is working as expected.
		Launch
+		

Figure 8.11 Troubleshoot Menu

From this menu, the following options are available:

- Scan Vehicle Logging (pg. 172)
- Manual Scan (pg. 172)
- User Interface Logging (pg. 175)
- Demo Scan (pg. 175)
- Bus Diagnostics (pg. 176)

NOTE:



Touch the **Back Arrow** to return to the Main Menu (Figure 8.1).

Scan Vehicle Logging

The Scan Vehicle Logging utility is used by Snap-on Technical Support to assist in solving vehicle connection issues. The log is not visible to the user. However, it provides connection information useful to the Technical Support team when solving connection issues.

NOTE:

Do not enable this utility unless directed to do so by a Technical Support specialist.

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. Manual Scan can also be useful for bypassing issues that may occur during an automatic vehicle scan.



Prior to initiating a manual vehicle scan, the vehicle should be in a key-on, engine-off state. For detailed information on connecting the device to a vehicle, see *Connecting to a Vehicle* in Chapter 3 of this manual.

To initiate the Manual Scan feature:

1 Touch the **Scan** button (see Figure 8.11).

select a venicle application to ibau, then se	ect a module. Only modules s	upported by the selected vehicle application will be available	ble for selection.
plication	Status	Module	Protocol
Light Medium Truck	Evaluation	PIU.	CHEDIL
Allison Transmissions - 1K 2K	Evaluation	Enome (Elis)	01438
Allison Transmissions - CEC 1	Evaluation	Relarder - Engine (Chd.)	1988
Allison Transmissions - Gen4	Evaluation	Dessi Fartigdan From (CD (Chi)	(Hast)
Allison Transmissions - Gen5	Evaluation		
Allison Transmissions - WTEC	Evaluation		
Bendix ABS	Evaluation		

The following screen is displayed once initial scanning is complete.

Figure 8.12 Manual Scan Module Selection Screen

Direct your attention to the Application list on the left side of the display.

2 Touch the screen and drag your finger up to scroll down the list until you find the application you want to load (e.g., **OBDII**).

Your selection is highlighted.

	select a module. Only modules si	apported by the selected vehicle application will be available	ble for selection.
pplication	Status	Module	Protocol
Hino	Evaluation	EQU	OBDII
Tinternational Engines	Evaluation	Employe (Clint)	0805
D MBE	Evaluation	General Contraction (Crit)	0156
Navistar Body & Chassis	Evaluation	Territoria Diservice da ana di Territoria di Ana	1996
Navistar MaxxForce Engines	Evaluation		
OBDII	Evaluation		
PACCAR PLATER	Example		

Figure 8.13 OBDII Selected

3 Select the available module from the list on the right (e.g., ECU - OBDII).

Select a vehicle application to load, then	select a module. Only modules s	apported by the selected vehicle application will be available	ble for selection.
pplication	Status	Module	Protocol
⊖ Hino	Evaluation	ECU	OBOIT
Thternational Engines	Evaluation	Engine (Chin)	((8))
D MBE	Evaluation	Hoforon - Formul (UIC)	Dyne
Navistar Body & Chassis	Evaluation	United Participate Francisco (111) (1811	LUKUR
Navistar MaxoForce Engines	Evaluation		
OEDII	Evaluation		
PILLOF	Danie -		

Figure 8.14 ECU Selected

4 Touch Load.

Your selection is loaded, and the Diagnostics Menu is displayed.

User Interface Logging

The User Interface Logging utility is used by Snap-on Technical Support to create a log file to assist in resolving issues encountered during an active vehicle session. The log is not visible to the user. However, it provides information useful to the Technical Support team when solving issues.

NOTE:

Do not enable this utility unless directed to do so by a Technical Support specialist.

Demo Scan

Demo Scan enables testing the features and functionality of the PRO-LINK[®] Edge in Demo Mode.

Touch the Scan button to initiate.

Select **End Session** from the drop-down menu in the upper-left corner of the screen to terminate Demo Mode and to return to the Troubleshoot Menu (Figure 8.11).

Bus Diagnostics

Launching Bus Diagnostics checks that the vehicle communication bus is working as expected.



Do not enable this utility unless directed to do so by a Technical Support specialist.

To launch Bus Diagnostics:

1 Touch the **Launch** button to initiate.

The Bus Diagnostics screen is displayed.

Bus Diagnostics	Bus active	Baud Rate: 250000	Protocol: 11030 - COT
Bus Messages			
$\begin{array}{c} 424003025514125122\\ 424003025514125122\\ 424003025514125122\\ 32400302552492540\\ 241254060255254125\\ 241254060255254125\\ 242254060255254125\\ 242254060255254125\\ 242254060255254125\\ 242003025514125122\\ 424003025514125122\\ 424003025514125122\\ 12423000025514125122\\ 12423000025514125122\\ 12423000025514125122\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 12423000025514125125\\ 124230000025514125125\\ 124230000025514125125\\ 124230000025514125125\\ 124230000000000000000000$	0 0 0 240 255 0 0 0 240 255 254 25 22 25 25 254 25 22 25 25 255 255 15 125 0 25 255 255 15 125 0 25 255 255 10 0 0 5 0 0 240 255 5 0 0 0 240 255 5 25 255 255 255 251 255		
Modules Detected	Msg/s		
Engine #1 Reserved	0.2 0.0 0.0		

Figure 8.15 Bus Diagnostics Screen

- 2 Select the appropriate **Protocol** from the drop-down menu in the upper-right corner of the screen.
- 3 Touch Start.
- 4 Touch Stop to end the session.
- 5 Touch the **Back Arrow** to return to the Troubleshoot Menu (Figure 8.11).

Chapter 9

Using Record and Playback



▼ Utilities Overview, page 178

🔻 Record, page 178

🔻 Playback, page 185

This chapter provides information on using the Record and Playback utilities.



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

Utilities Overview

The PRO-LINK[®] Edge 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 (pg. 178)
- Playback (pg. 185)

NOTE:

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 6: Using the Settings Menu.

—"Printing a Report" in Chapter 5: Using the Vehicle History Menu.

Record

You can record live vehicle data manually for playback at a later time. When you record off the PRO-LINK[®] Edge, 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).

The Record Mode button is accessed from the Quick List screen, and you must add parameters to the Quick List to make the Record Mode button available. You can save *only one* recording file at a time. If you begin a new recording and a previous recording still exists, the PRO-LINK[®] Edge asks you if you want to record *over* the previously saved recording file.

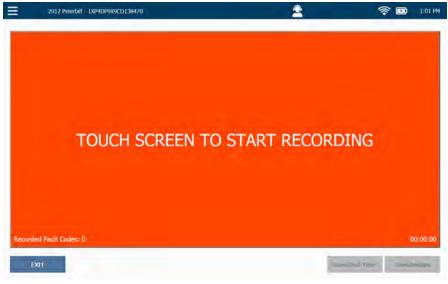
The Record Utility can assist you in diagnosing vehicles with intermittent problems, as you can quickly refer back to the recording to help diagnose problems To launch the Record utility:

- 1 Create a Quick List including parameters of interest.
- 2 Start on the **PARAMETERS** tab:

≡	2012 Peterbilt - 1XP4DP9X9C	D138470	2	🤶 🗊 12:58 PM
	Quick List	3	DEF Pressure (Relative)	188.5 psi
Faults	DEF - SCR		Ambient Air Pressure	14.3 psi
Ē	EGR		Air Pressure Pre-Turbine (Filtered)	58.0 psi
Engine	Exhaust Back Pressure Valve			
(?)	NOx			
Calibrations	Fuel System			
(init	Turbocharger			
Tests	Voltages			
	Temperatures			
	Pressures			
	Switches			
	Lamps/Lighting		Remove Selected Hens Clear Quick List	Graph Record Mode
	C			

Figure 9.1 Quick List

3 Touch the **Record Mode** button to create a recording.



The **Record** screen is displayed.

Figure 9.2 Record Screen

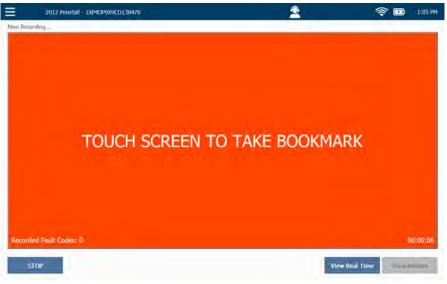
4 Touch the screen to start recording.



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

Figure 9.3 Overwrite Existing File Question

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



The red screen message changes to "Touch Screen to Take Bookmark."

Figure 9.4 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. The message "Bookmark Taken" is displayed briefly as a bookmark is created.

For information on the Playback utility, refer to *Playback* on page 185 of this chapter.

6 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 9.4).

Button	What it does
STOP	 Ends a recording (you need to confirm that you want the recording to end). Returns you to the Record screen (Figure 9.2). Changes to EXIT once you stop the recording; the EXIT button takes you back to the list of parameters (Figure 9.1).
View Real Time	 Warning: Not recommended if you are operating the vehicle. 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. A number of buttons are available: Change Parameters—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 View Results to return to return to the Real Time view. Note: All parameters are being recorded even though they are not currently viewed. Back Arrow—takes you back to the Record Mode screen (the recording is still in progress).
View Results	 Enables you to review in Playback Mode the recording you created. You must confirm that you want to stop the recording prior to viewing results. A number of buttons are available: Rewind—enables you to rewind to the start of the recording. Play—starts the recording. Changes to the Pause button once the playback begins. Previous Bookmark and Next Bookmark—enable you to jump from one bookmark to the next. EXIT—takes you back to the Record screen (Figure 9.2).



7 Touch **STOP** to stop recording.

Figure 9.5 Are you sure? Message

8 Touch Yes to confirm that you want to stop recording.

The **Record** screen is displayed (Figure 9.2).

9 Touch **EXIT** to return to the Quick List (Figure 9.1).

Playback

Playback can be accessed in three ways:

- By selecting **Play Recording** from the drop-down menu on the Main menu. The Play Recording menu item will not be available if you have not first created a recording.
- By selecting **Play Recording** from the drop-down menu on the Diagnostics Menu.
- By touching the View Results button on the Record screen (Figure 9.2).

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

To play back an existing recording:

1 Start at the Main Menu.

			2	🛜 🗈 11:15 AM
Units	>			
Play Recording	g			
	-Connext			
Support				
About			0	
	المرجما		157	
	اتے رہا			
	Vehicle Scan		Vehicle History	
	Ö		2	
	Settings	Applications	Support	

Figure 9.6 Main Menu Showing the Drop-down Menu

2 Select Play Recording.



The Playback screen is displayed.

Figure 9.7 Playback Screen

The PRO-LINK[®] Edge 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.

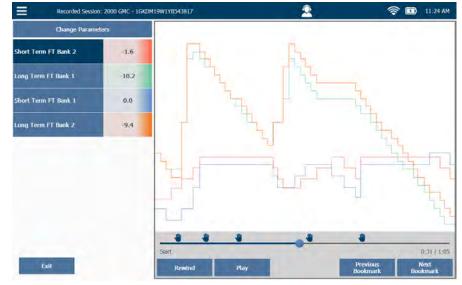
Touch View Results to return to the Playback screen (Figure 9.7).

- Exit—go back to the Main Menu (Figure 9.6).
- **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.

NOTE:

Bookmarks are indicated by the hand icon (see Figure 9.7).

- Next Bookmark—jump forward to the next bookmark.
- 3 Touch Play.



The recording begins.

Figure 9.8 Playback Screen

4 When you are finished playing the recording, touch **Exit** to go back to the Main Menu (Figure 9.6).

Chapter 9 • Using Record and Playback

Chapter 10

Using PRO-LINK[®] Repair-Connect



- ▼ PRO-LINK® Repair-Connect Overview, page 189
- ▼ Logging In, page 190
- The Description Tab, page 194
- ▼ The Testing Tab, page 196
- ▼ The Specs Tab, page 198
- ▼ The Wiring/Locator Tab, page 201
- ▼ The Remove & Install Tab, page 205

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.

The remainder of this chapter covers the following:

- Logging In (pg. 190)
- The Description Tab (pg. 194)
- The Testing Tab (pg. 196)
- The Specs Tab (pg. 198)
- The Wiring/Locator Tab (pg. 201)
- The Remove & Install Tab (pg. 205)

Logging In

You access PRO-LINK[®] Repair-Connect from the FAULTS tab on the Diagnostics Menu. Once you have logged in, the PRO-LINK[®] Edge remembers your login information so you don'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.

\wedge	80 ACTIVE FAULTS		7	INACTIVE FAULTS		
Faults	Engine - Paccar		Engin	e - Paccar		
Faults	Inlet air pressure in inlet manifold - V ground - on ECU (D420) pin (A51)	oltage too low or short circuit to	CAN	communication - Hardware or software malfunction on V-CAN1		
۲ ^۲ ۳	ground on ees (price) but (rost)	DTC P0107 - Powertrain (P) - Current	_	DTC U1014 - Network (U) - Histori		
	Engine - Paccar			e - Paccar		
Engine		age too low or short circuit to ground -	EAS-3 actuator ECU - CAN communication error cult to ground -			
3	on ECU (D420) pin (C81)		_	DTC P3845 - Powertrain (P) - Histor		
6.2		DTC P047C - Powertrain (P) - Current	Engin	e - Paccar		
Calibrations	Engine - Paccar		AdBlu	e pipe heating relay - Open circuit - on ECU (8375) pin (830)		
-	Exhaust gas pressure before turbine - ground - on ECU (D420) pin (C83)	Voltage too low or short circuit to	-	DTC P3910 - Powertrain (P) - Histor		
Î	ground - on ECO (D420) pin (C65)	DTC P0472 - Powertrain (P) - Current	Engin	e - Paccar		
Tests		Dic Poinz - Powerdani (P) - Content	- Aftert	reatment system - Misuse detection - Level 1		
Tests	Engine - Paccar			DTC P151A - Powertrain (P) - Histori		
	Inlet air temperature in inlet manifold ground - on ECU (D420) pin (A43)	I - Voltage too low or short circuit to	Engin	e - Paccar		
	DTC P0113 - Powertrain (P) - Current		Aftertreatment system - Misuse detection - Level 2			
	Engine - Paccar			DTC P151B - Powertrain (P) - Histori		
	Intercooler temperature - Voltage too	high or short circuit to supply - on	Engin	e - Paccar		
	ECU (D420) pln (C17)		Aftert	reatment system - Misuse detection - Level 3		

Figure 10.1 Diagnostics Menu

2 To view more information on a particular fault, touch the screen to select the fault you want to view (e.g., **Inlet air pressure in inlet manifold**).

NOTE:

To log out, use the drop-down menu in the upper-left corner of the screen and select Logout Repair Connect.

The More Info screen is displayed.

law or short circuit to ground - on ECU (0420) pin (AS1). k&@ nmeet old - Voltage too low or short circuit to ground - on ECU (D420) pin (AS1)
k® nnet
onned
old - Voltage too low or short circuit to ground - on ECU (D420) pin (A51)

To return to the list of faults, touch the **Back Arrow**.



The Login screen is displayed.

	2012 Peterbilt - 1XP4D	P9X9CD138470		2		3:47 PM
Engine: DTC I Inlet air presso		Sitage too low or short o	trauit to ground - on ECU (IM	20) pin (A51)		
Description	Freeze Frame (No Info)	Pro-Link® Repair-Connect				
	Please login to access P	Use	eet troubleshooting informatic marne:	on, which indudes Testing Steps, Specs,	Wiring diagrams and more.	
+		To subscrib	e to PRO-LINK® Repair-Conne	et, contact your Snap-on dealer.	las	ND.

Figure 10.3 Repair-Connect Login Screen

- 4 Touch within the **Username** data entry field.
- 5 Use the keyboard to enter your **Username**.
- 6 Touch within the **Password** data entry field, and enter your Password.

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.
- 7 (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).
- 8 Touch Login.

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

In the event that Repair-Connect cannot automatically determine the VIN, a "Could not decode VIN" screen is displayed.

9 Obtain the VIN off the vehicle.

- 10 Touch within the VIN data entry field.
- 11 Use the keyboard to enter the correct VIN.
- 12 Touch the Go button at the bottom of the screen to submit 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.

Once your login credentials are verified, the More Info screen is displayed with a number of Repair-Connect tabs displayed at the top of the screen.

=	2012 Peterbilt - 1XP4D	P9X9CD138470			2	3:59 PM
	Code Diagnostics, D ure in Inlet manifold - Ve		iont circuit to grou	nd - on ECU (D420)	pin (A51)	
Description	Freeze Frame (No.1nfo)	Testing	Specs	Wiring/ Locator	Remove & Install	
DTC: P0107 Fault Group Status: Cur	o: Powertrain (P)	et manifold - V	oltage too lo	w or short circo	uit to ground - on ECU (E	0420) pin (A51)
Code Des						
Boost Press	ure Sensor (too low	signal voltage c	on ECM termina	al A51)		
Possible Ca	iuse					
Connector,	wiring or sensor are	faulty.				
Set Conditi	on of Fault Code					
ECM detects	too low (less than)	0.20 Volt) outpu	it voltage of se	ensor.		
Reset Conc	lition of Fault Cod	e				
This rode he	come inactive once	diagnostic run	s and nasses			
+						Print

Figure 10.4 More Info Screen with Repair-Connect Tabs

The Description tab is the active tab.

The Description Tab

To use the Description tab:

=	2012 Peterbilt - 1XP4D	P9X9CD138470			2	3:59	PM
	Code Diagnostics, D' re in Inlet manifold - Ve		ort circuit to grow	nd - on ECU (D420)	pin (A51)		
Description	Freeze Frame (No.tnfo)	Testing	Specs	Wiring/ Locator	Remove & Install		
DTC: P0107 Fault Group: Status: Curre	Powertrain (P)	t manifold - V	'oltage too lo	w or short circt	iit to ground - on ECU (D42	20) pin (A51)	
Code Descr	ription						_
Boost Pressur	e Sensor (too low	signal voltage o	on ECM termina	al A51)			
Possible Cau	ise						
Connector, wi	iring or sensor are	faulty.					
Set Conditio	n of Fault Code						
ECM detects	too low (less than (.20 Volt) outpu	it voltage of se	ensor.			
Reset Condit	tion of Fault Code	е					
This rode her	ome inactive once	diagnostic runs	s and nasses				
+						Print	

Figure 10.5 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 blue Freeze Frame tab.

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

Additional information is revealed.

=	2012 Peterbilt - 1XP4DP	9X9CD138470			2	4:09 PM
	Code Diagnostics, DT e in Inlet manifold - Vol		ort circuit to grou	nd - on ECU (D429)	pin (A51)	
Description	Fresze Franie (No tofn)	Testing	Specs	Wiring/ Locator	Remove & Install	
ECM detects	too low (less than 0	.20 Volt) outpu	it voltage of se	nsor.		
Reset Condi	tion of Fault Code					
This code bee	ome inactive once	diagnostic run	s and passes.			
Technical Da	ita					
Boost Pressur	e Sensor					
See SPECIFIC	ATIONS.					
Component	Location					
COMPONENT	LOCATION					
Component	Description					
Boost Pressur	e Sensor					
NOTE:	For Fault Code Diagnost	tics, see Testing -				
+						Print

Figure 10.6 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 **Back Arrow** to go back to the list of faults (Figure 10.1), and select a different fault to view Repair-Connect information for that fault.
 - —Select a different tab at the top of the screen (e.g., **Testing**) to view testing information for the same, currently selected fault.

The Testing Tab

To use the Testing tab:

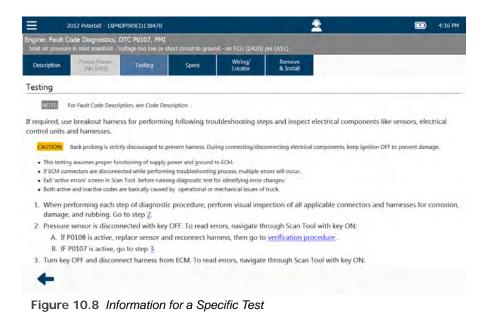
1 Touch the **Testing** tab to view testing information specific to the currently selected fault.

=	2012 Peterbilt - 1XP4D	P9X9CD138470				2		4:14 PM
	ode Diagnostics, D e in intet manifold - Ve		pin (A51)					
Description	Fireeze Frame (No Info)	Testing	Specs	Wiring/ Locator	Remove & Install	1.00		
Trouble Code Tes	t: Boost Pressure Sens	sor		X				
Trouble Code Tes	t: Engine Control Mod	lule (ECM)						
Component Test:	Boost Pressure Senso							
Component Test:	Engine Control Modul	e (ECM)						
4								

Figure 10.7 Testing Tab Activated

2 Touch the screen to select the test you want to view (e.g., **Trouble Code Test: Boost Pressure Sensor**).

The information for the selected test is displayed.



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

NOTE:

Some screens have internal hyperlinks. Touching the hyper-link jumps you down the page to the specific information.

- 4 When you have finished viewing the information for this test, you can:
 - -Touch the Back Arrow to go back to the list of tests (Figure 10.7).
 - -Touch the Back Arrow twice to go back to the list of faults (Figure 10.1).
 - —Select another tab at the top of the screen (e.g., Specs) to view more information about the currently selected fault.

The Specs Tab

To use the Specs tab:

1 Touch the Back Arrow to go back to the list of faults (i.e., the Diagnostics Menu).

=	2012 Peterbilt - 1XP4DP9X9CD138470		_		2	ľ.		I		2:23 PM
Λ	80 ACTIVE FAULTS		7	INAC	CTIVE FA	ULTS				
Faults	Engine - Paccar		Engin	e - Pad	ccar			_		
Faults	Inlet air pressure in inlet manifold - Vo ground - on ECU (D420) pin (A51)	oltage too low or short circuit to	CAN o	ommun	nication - H	Hardware	or software ma			
K		DTC P0107 - Powertrain (P) - Current	_	_	_	_	DTC UI	1014	Network (U)	 Historic
Engine	Engine - Paccar Exhaust gas pressure after BPV - Volta on ECU (D420) pin (C81)	ge too low or short circuit to ground -	-	e - Pad		CAN comm	unication error DTC P384		Powertrain (P)	- Historic
E.J		DTC P047C - Powertrain (P) - Current	Engin	e - Pac	ccar					
Calibrations	Engine - Paccar		AdBlue	e pipe h	heating rel	ay - Open	circuit - on EC	U (83)	75) pin (830)	
-	Exhaust gas pressure before turbine - ground - on ECU (D420) pin (C83)	Voltage too low or short circuit to	_				DTC P39	10 - P	Powertrain (P)	- Historic
		DTC P0472 - Powertrain (P) - Current		e - Pac		Micuso d	etection - Level	1		
Tests	Engine - Paccar		Miteru	courren	in system	Philpube G			Powertrain (P)	Historic
	Inlet air temperature in inlet manifold- ground - on ECU (D420) pin (A43)	- Voltage too low or short circuit to	Engin	e - Pac	ccar					
		DTC P0113 - Powertrain (P) - Current	Aftertr	reatmen	nt system -	Misuse d	etection - Level	2		
	Engine - Paccar						DTC P15	18 - P	Powertrain (P)	- Historic
	Intercooler temperature - Voltage too I ECU (D420) pin (C17)	high or short circuit to supply – on		ie - Pao reatmen		- Misuse d	etection - Level	3	Clear All I	Faults

Figure 10.9 Diagnostics Menu

- 2 Touch the screen and use your finger to scroll though the list of faults.
- 3 Select a different fault (e.g., BPV initialization Malfunction).

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

=	2012 Peterbilt - 1XP4D	P9X9CD138470	L.:			2	🛜 🔝 11:22 AM
Engine: Fault C BPV initialisation	ode Diagnostics, D - Malfunction	ITC P1028, FMI					
Description	Filesze Frame (No.tofo)	Testing	Specs	Wirling/ Locator	Remove & Install		
DTC: P1028 Fault Group: Status: Curre	arameter: None	function					
	Valve (BPV) actua	tor: Initializatio	n				
Possible Cau	se						
	s NOT initialized, i itch turned OFF in			gnition OFF			
Set Condition	n of Fault Code						
Reset Condit	ion of Fault Cod	e					
+							Print
Figure	10.10 D	escriptio	n Tab Ac	tivated			

4 Touch the **Specs** tab to view specifications for the selected fault.

The **Specs** tab is activated.

Ξ 2	2012 Peterbilt - 1XP4D	P9X9CD138470				Q	🛜 🖪 11:24 /
Engine: Fault C BPV initialisation	ode Diagnostics, D	ITC P1028, FMI					
Description	Freeze Frame (No.Info)	Testing	Specs	Wiring/ Locator	Remove & Install	1	
				Electrical			
Exhaust BPV A	Actuator		C71 (sig	nal)	5.7 - 6.6 (D at 68°F (20°C)	
			B58 (gro	und)	5.7 - 6.6 0	O at 68°F (20°C)	

EXHAUST BPV ACTUATOR



Figure 10.11 Specs Tab Activated

- 5 When you have finished viewing the information, you can:
 - -Touch the **Back Arrow** to go back to the list of faults (Figure 10.1).
 - -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 or a connector).

To use the Wiring/Locator tab:

1 Touch the **Wiring/Locator** tab to view specifications related to the currently selected fault.

=	2012 Peterbilt - 1XP4DP	9X9CD138470			2	- 	11:44 AM
	ode Diagnostics, D7 ature in inlet manifold -		r short circuit to g	round - on ECU (D4			
Description	Freeze Frame (No Info)	Testing	Specs	Wiring/ Locator	Remove & Install		
Wiring: System D 6 images	lagrams						
Wiring: Boost Ter	nperature Sensor						
Connector: Boost	Temperature Sensor						
Connector: Engin	e Control Module (ECM)						
Locator: Boost Te	mperature Sensor						
Locator: Engine C	Control Module (ECM)						
4							
Figure	10.12 Wi	ring/Loca	ator Tab	Activated			

2 Touch the screen to select one of the wiring diagrams from the list (e.g., Wiring: BOOST TEMPERATURE SENSOR).

The selected wiring diagram is displayed.

2	2012 Peterbilt - 1XP40	P9X9CD138470				2	🤶 🛄 11:52 AM
	ode Diagnostics, D iture in inlet manifold		ar shart circuit to g	round - on ECU (D4	20) pin (A43)		
Description	Freeze Frame (No Info)	Testing	Spees	Wiring/ Locator	Remove & Install		
mponent Diagra	am, Boost Temperatur	e Sensor					
			-				
		PALET TEMP	A1) 43 NGA 20	21	1006	NCA 1	
		INLET TEMP OF	0 142 NOA 321	9	3267	NCA 2	
		BOU PMC12	-1.7			EDOST TEMPERATURE SENSOR	
		344279					
4						vi	ew Screen Print

Figure 10.13 Wiring Diagram

3 Use the plus (+) and minus (-) sign buttons to zoom in and out.

NOTE:

You can also use the **View Full-Screen** button to enlarge the image.

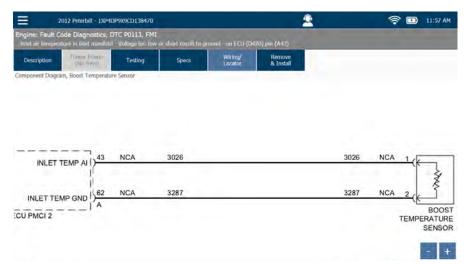


Figure 10.14 Zoomed Image

NOTE:

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.

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

Ξ 2	012 Peterbilt - 1XP4DF	9X9CD138470				2	🛜 🗊 11:44 AM
Engine: Fault Code Diagnostics, DTC P0113, FMI Inlet air temperature in inlet manifold - Voltage too low or short circuit				round - on ECU (D4	20) pin (A43)		
Description	Freeze Frame (No Info)	Testing	Specs	Wiring/ Locator	Remove & Install	1	
Wiring: System Di 6 images	lagrams						
Wiring: Boost Ten	nperature Sensor						
Connector: Boost	Temperature Sensor						
Connector: Engine	e Control Module (ECM))					
Locator: Boost Te	mperature Sensor						
Locator: Engine C	ontrol Module (ECM)						
4							

Figure 10.15 List of Wiring Diagrams

6 Touch the screen to select Locator: Boost Temperature Sensor to view a diagram/photograph of the sensor.

The diagram/photograph is displayed.



Figure 10.16 Locator Diagram/Photograph

7 Use the plus (+) and minus (-) sign buttons to zoom in and out.

NOTE:

You can also use the **View Full-Screen** button to enlarge the image.

- 8 (optional) Touch Print to send the current screen view to a printer.
- 9 At this point you can:
 - —Use the **Back Arrow** to return to the list of wiring diagrams (Figure 10.15).
 - —Touch the **Back Arrow** twice to go back to the list of faults (Figure 10.1).
 - -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.

⊒ 2	012 Peterbilt - 1XP40	0P9X9CD138470				2	<u></u>	12:16 PM
	ode Information, I perature before DOC		_					
Description	Fireze Frame (No Info)	Testing	Specs	Wiring/ Locator	Remove & Install			
81: AFTERTREAT	TMENT ACTUATOR	ELECTRONIC CONT	ROL UNIT (ECU)					
81: Aftertreatme	nt Diesel Particulate F	ilter Inlet Tempera	ture Sensor					
81: AFTERTREAT	TMENT ELECTRONIC	CONTROL UNIT (ECU)					
R&I: Engine Contr	rol Module (ECM)							

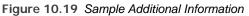
Figure 10.17 Remove & Install Tab Activated

2 Touch the screen to select **R&I: Aftertreatment Diesel Particulate Filter** Inlet Temperature Sensor. The removal and installation instructions are displayed.

Inlet air pressure	in Inlet manifold - V	oltage too low or s	hort circuit to grou	nd - on ECU (D420)	pin (A51)	
Description	Freeze Frame (No.1nfo)	Testing	Specs	Wiring/ Locator	Remove & Install	
Testing						
NOTE: F	or Fault Code Descrip	ition, see Code Des	cription .			
f required, use control units a		is for performin	g following tro	ubleshooting st	eps and inspect electrical comp	oonents like sensors, electrical
CAUTION:	Back probing is strict	y discouraged to p	revent harness. Du	ring connecting/dis	connecting electrical components, keep	o ignition OFF to prevent damage.
. This testing	assumes proper fun	ctioning of supply	power and ground	to ECM.		
	nectors are disconnec					
	errors' screen in Scan and inactive codes a					
	rforming each ste and rubbing. Go		c procedure, pe	erform visual insp	pection of all applicable conne	ctors and harnesses for corrosion
2. Pressure	sensor is disconn	ected with key	OFF. To read e	rrors, navigate tl	nrough Scan Tool with key ON:	
			d reconnect ha	mess, then go to	verification procedure .	
	0107 is active, go			Same and same	alou de constante de la co	
5. Turn key	OFF and disconn	ect namess tro	m ECM. To read	i errors, navigat	e through Scan Tool with key C	14.
2						

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

Description	Freeze Frame (No Info)	Testing	Specs	Wiring/ Locator	Remove & Install			
-	purging process.	· · · ·					1	
WARNING WARNING	NOT disconnect batte Exhaust and exhaust	eries with engine ru components remain	nning. Disconnecti n hot long after ver	ng batteries with en hicle has stopped. Pr	s to avoid electrical shock a gine running can cause eler for to performing any task, naterials in vicinity area.	trical component failures.		
Removal	me, property canage	, and personal inju	nes. Do Nor penn	it any compassione i	navenais in vicinity area.			
1. Discon	nect batteries.							
2. Discon	nect sensor electric	al connector fro	om DPF Tempe	rature Sensor In	terface Module.			
3. Remov	e sensor from DPF	assembly.						
nstallation		×						
1. Install t	emperature sensor	into DPF asser	nbly and torque	e to Specificatio	ns .			
2. Reconn	nect electrical conne	ector to DPF Te	mperature Sen	sor Interface Mo	dule.			
2 Decem	nect batteries.							
5. Recont		lated fault cod						



4 Use the **Back Arrow** to go back to the list of instructions (Figure 10.17).

- 5 At this point you can:
 - —Touch the **Back Arrow** tab to go back to the list of faults (Figure 10.1).
 - -Select another Repair-Connect tab to view more information about the currently selected fault.



Warranty & Service

- ▼ Exclusive Warranty, page 2
- ▼ Exclusive Remedy, page 3
- ▼ Troubleshooting, page 4
- Scheduling a Repair, page 5
- ▼ Return of Goods Policy, page 7

 $T \ensuremath{\mathsf{his}}$ document provides warranty and service information.

Exclusive Warranty

Software applications and hardware are warranted for a period of one (1) year from the date of purchase to be free of defects in materials and workmanship, and to be merchantable and fit for its intended purpose.

NOTE:

Date of purchase is defined as **the date the product is purchased by the end-user**. This is not to be confused with the date the product is purchased by the distributor.

All OEM PC software applications, cables, adapters, and connectors are warranted for a 90-day period.

All warranties are null and void if, after shipment, the product is altered or modified for any reason by anyone other than Snap-on, or is mis-used or abused. No warranty, express or implied, lasts beyond one (1) year from the date of purchase. There are no oral warranties of any kind.



To obtain warranty service, return products to a Snap-on franchisee or representative.

Exclusive Remedy

The sole remedy for breach of warranty or any other obligation (including and arising out of statute or regulation, strict liability, negligence or the law of torts) is repair or replacement of defective parts by Snap-on or, at the option of Snap-on, refund of the purchase price. This is the exclusive remedy. ALL LIABILITY OF SNAP-ON FOR CONSEQUENTIAL OR OTHER DAMAGES IS EXCLUDED AND DISCLAIMED. In no event shall the Buyer be entitled to damages for lost profits, down time, attorney fees, or business, economic, or commercial loss or damage of any kind. Action on any claim must be commenced within one (1) year after the cause of action has accrued.

Troubleshooting

For technical assistance (i.e., troubleshooting), please call **(800) 311-5452**, and enter **option 3**. This will transfer your call to the Service and Repair department where a technician will assist you in resolving the issue you are experiencing.

If there is an issue that cannot be handled during the phone conversation, you will be directed to Service and Repair website (i.e., service.nexiq.com) to schedule a repair.

See Scheduling a Repair, next in this appendix.

Scheduling a Repair

Repairs and/or service are obtained by returning the product (shipping charges prepaid), along with proof of purchase. During the warranty period, Snap-on will, at its option, repair or replace the product that proves to be defective or, refund the purchase price.

In the case where repeat service is required, the second instance of service must occur within 90 days of the first repair or service. During this 90-day period, the product is under a service warranty.

To schedule a repair, please visit the following website: service.nexiq.com

NOTE:

You are responsible for shipping and handling charges on non-warranty repairs and non-warranty rework. With all warranty repairs, Snap-on is responsible for the shipping costs of the return to customer.

		You are not logged in
Home	Catalog Contact	Register Log
Home 1	agin	🗑 Shopping Cartz 0 Items \$
	Registered Users	New Users
	Returning users can log on using the controls below. New users must register using one of the options in the New Users panel.	You need to create a user account before you can place an order or schedule a repair.
	Username*	Create a new user account
	Username	
	Forgot Username?	
	Password*	
	Password	
	Forgot Password?	

Figure A.1 Service Website

If you are not already a registered user, create a new account.

NOTE:

If you are *not* located in the United States, click on the flag in the upperright corner, and the select the flag that corresponds to the country in which you are located. To create a new account:

- 1. Click on Create a new user account.
- 2. Complete the User Registration form.
- 3. Click Register.
- 4. Scroll down the list of product to find the product for which you wish to schedule a repair.
- 5. Click on the Schedule this repair button for your product, and follow the prompts.

After you have entered your payment information and completed your transaction, please print out the form displayed (i.e., the NP-xxx-xxxxx form).

Return Instructions

1. Print out the NP-xxx-xxxxxx form.

You can use the printer icon at the top left of the display.

- 2. Package the equipment listed on the form, ensuring there is enough padding to prevent damage while in transit.
- 3. Place the page you printed inside the package on the top.
- 4. Send the package to:

Snap-on 2950 Waterview Rochester Hills, MI 48309 Attention: Service and Repair

Toll Free: (800) 311-5452

E-mail: hdsupport@snapon.com

NOTE:



We encourage you to insure and track your package as we are only responsible for it once we receive it. We cannot be liable for any loss or damage that occurs while in transit to our facility.

Return of Goods Policy

Thank you for your Snap-on purchase. Please inspect your order for accuracy and for damage during the shipping process. If you did not receive your entire order or your order has not arrived in excellent condition, please contact Customer Service at **(800) 311-5452**, within 30 working days of receipt.

NOTE:

You may also contact your Snap-on dealer for assistance with return of goods.

If Snap-on receives the request for return AFTER 30 DAYS, a 15 percent restocking fee will be issued. Upon inspection and approval of the returned products, credit will be issued. Any damaged or missing parts will be deducted from the final credit total. NO RETURNS ARE ACCEPTED WITHOUT AN RGA (RETURN GOODS AUTHORIZATION) NUMBER. Customers are responsible for return shipping charges. Appendix A • Warranty & Service