



# PDL 4100

QUICK-START-GUIDE



# ***PDL4100***

## **Quick Start Guide**

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### **IMPORTANT:**

Before operating or maintaining this unit, please read this manual carefully paying extra attention to the safety warnings and precautions.

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# Connections and Controls

## Connections

All of the ports for connecting the PDL 4100 to a vehicle, personal computer, or power source are located on the top panel of the unit.



- 1— Battery Status Indicator**—a multi-color light emitting diode (LED) that illuminates to indicate battery status, interpret as follows:
  - **Green** indicates the battery is fully charged
  - **Red** indicates the battery is being charged
  - **Amber** indicates a battery issue. This is usually caused by excessive battery temperature (above 104°F/40°C), which disables charging. Allow the unit to cool down and make sure the ventilation ports are not obstructed if the LED is amber.
- 2— Power Supply Jack**—use for connecting the AC power supply.
- 3— Mini USB Jack**—use for connecting the scan tool to a personal computer.
- 4— Micro secure digital (µSD) Card Slot**—holds the µSD card that contains the operating system programming.
- 5— Data Cable Jack**—use for connecting the scan tool to a test vehicle.

**IMPORTANT:**

The micro SD card **MUST** be installed for the scan tool to operate. Do not remove the micro SD card while the unit is powered on.

## Controls

The external controls on the PDL 4100 are simplified since most operations are controlled through the touch screen. Touch screen navigation is menu driven, which allows you to quickly locate the needed test, procedure, or data through a series of choices and questions.



- 1— **N/x Button**—exits a menu or program, returns to the previous screen, or answers no to a question on the screen.
- 2— **Y/✓ Button**—selects a menu or program, advances to the next screen, or answers yes to a question on the screen.
- 3— **Directional Buttons**—moves the highlight on the display screen up (▲), down (▼), left (◀), and right (▶), as indicated by the arrows.
- 4— **Shortcut Button**—can be programmed to provide a shortcut for performing a variety of routine tasks.
- 5— **Power Button**—switches the unit on and off.

# Basic Steps

To begin operating your PDL 4100 scan tool:

1. Install the battery pack.
2. Connect the AC power supply, to charge the battery pack.
3. Power on the scan tool.

## Battery Pack Installation

Use the following procedure to install the battery pack.



### To install the battery pack:

1. Loosen the battery pack cover screws (located on back) and remove the battery pack cover.
2. Align the locating tabs and install the battery pack.



- 1— Battery Pack
- 2— Battery Cover
- 3— Battery Cover Screws

3. Install the battery cover and tighten the screws. **DO NOT** overtighten the battery cover screws. The battery pack

is supplied charged, however if needed connect the AC/DC power supply to an appropriate power source and into the “10-30V” DC power supply jack on top of the diagnostic tool.

## Power Supply Connection

Use the following procedure to connect the AC power supply.



### To connect the AC power supply:

1. Insert the power cord of the power supply into a service outlet.
2. Insert the power supply cable into the power supply jack (marked 10-30V) on the top of the unit.

An LED alongside the power supply jack illuminates to indicate power is being supplied. Once the scan tool is powered on, an icon in the upper right corner of the display screen indicates the battery state of charge, refer to the *PDL 4100 User Manual* for details.

## Powering on the PDL 4100

The PDL 4100 unit will be switched on when the AC power supply is connected, there is no need to wait for the battery pack to be charged. Press the power button on the face of the unit to switch the PDL 4100 unit on, the scan tool initializes and opens to the Home screen.



*Power Button*



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### NOTE:

The diagnostic tool automatically turns on when connected to an external power source, such as the AC power supply or a vehicle data link connector (DLC).

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# Navigation

Scan tool screens typically include three sections:

- **Title bar**—shows test and tool status
- **Toolbar**—contains test controls
- **Main body**—displays menus and test data

## Title Bar

The title bar at the top of the screen, provides information about current tool operating conditions. Title bar options vary depending upon vehicle make and model, what test is being performed or what menu is selected.












Depending upon what is being displayed in the main body of the screen, either the vehicle ID or the active menu is shown at the left side of the title bar.

An icon at the far right side of the title bar indicates whether the tool is being powered by the internal battery pack, the test vehicle, or the AC power supply.

A communication icon displays to the left of the power source indicator whenever the scan tool is actively communicating with a test vehicle or a personal computer.

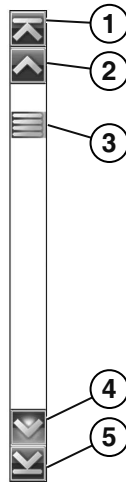
## Toolbar

The toolbar, located under the title bar, contains a number of selectable buttons that control tool functions. What buttons appear on the toolbar varies, as only buttons that are active or available for the current screen and test mode display. A brief description of common toolbar button operations are shown in the table that follows:

Button	Icon	Function
Back		Returns to the previously viewed screen. This button is always at the left-hand edge of the toolbar.
Home		Returns to the Home screen. This button is always alongside the Back button on the left side of the toolbar.
Custom Data List		Allows you to select which parameters to display from the list. This button displays when viewing a data list.
Graph		Switches between PID List and Graph display modes. This button displays when viewing a data list.
Lock/Unlock		Locks or unlocks the highlighted parameter. This button displays when viewing a data list.
Save		Saves the current datastream information to tool memory.
Tools		Opens the tools menu, which allows you to adjust basic tool settings.
Pause		Indicates live data from the vehicle is being displayed.
Previous Frame		Moves back one frame when viewing recorded or paused data.
Next Frame		Moves forward one frame when viewing recorded or paused data.
Zoom		Increases and decreases the scale of the data graphs.

# Main Body

The main body is the lower portion of the screen, which displays a menu of available tests or data from the vehicle. A vertical scroll bar appears when there is additional data either above or below what is currently shown on the screen.



- 1— Go to beginning
- 2— Go up 1 page
- 3— Slider (position indicator)
- 4— Go down 1 page
- 5— Go to end

# Operations

The Home screen opens when PDL 4100 is powered on. Touch-sensitive buttons on the Home screen are used to select the primary functions of the scan tool:

- **Scanner** - Used to communicate with the electronic control systems of a vehicle. Retrieve diagnostic trouble codes (DTCs), view PID data and perform diagnostic tests.
- **OBD-II/EOBD** - Access generic OBD-II/EOBD data and tests without identifying the vehicle being tested.
- **Previous Vehicles & Data** - Quickly reconfigure the diagnostic tool to a recently tested vehicle and access saved data files.
- **Tools** - Adjust diagnostic tool settings to your personal preferences and perform other special functions.

## Scanner



Starting Scanner opens a menu list of vehicle manufacturers and begins the process by identifying the vehicle being tested.

After the vehicle is identified, a vehicle system is selected and then a specific test or function is selected to allow you to retrieve DTCs, view PID data, perform diagnostic tests and view information.

Scanner testing requires data cable connection to a vehicle DLC. Depending on the vehicle, the supplied DA-4 data cable may be used alone or may require optional adapters. Onscreen cable and adapter connection instructions are provided during the Scanner and OBD-II/EOBD vehicle identification process.

## Code Scan and Vehicle System Report

Code Scan displays codes from vehicle control modules and includes Generic EOBD codes and readiness monitors. The results can be saved to a file and reviewed on the tool or transferred to a PC with ShopStream Connect™ for review and printing of the results in an attractive format for presentation to customers.

## OBD-II/EOBD



OBD-II/EOBD allows you to access generic OBD-II/EOBD data and tests without identifying the vehicle being tested.

Menu options are::

- OBD Direct - initiate a test session, check DLC location, or manually select communication protocol
- OBD-II Health Check - quickly view or clear generic DTCs and check readiness monitors

## Previous Vehicles & Data



Previous Vehicles and Data allows you to save time by quickly configuring the diagnostic tool to a recently tested vehicle and to access saved data files.

Menu options are:

- Vehicle History—displays the last twenty-five vehicles tested and available for selection
- View Saved Data—displays all saved data files, including screen images
- Delete Saved Data—permanently erases saved data files from memory

## Tools



The **Tools** button allows you to adjust tool settings to your personal preferences, access scan tool system information, and perform other special operations.

Selecting **Tools** opens a menu of options:

- **Connect To PC**—use to transfer and share files with a personal computer (PC).
- **Configure Shortcut Button**—use to change the functionality of the shortcut button.
- **System Information**—use to display configuration information for your scan tool.
- **Settings**—use to configure certain characteristics of the scan tool.

## Demonstration Program

Your PDL 4100 includes a demonstration program that allows you to become familiar with many of the capabilities of the scan tool without actually connecting to a vehicle. Sample data and mock test results help you quickly learn how to navigate the menus and perform basic operations.



### To start the demonstration program:

1. From the Home screen, tap **Scanner**.  
The manufacturer menu, which lists all of the makes available for testing, displays. The list also includes a **Demonstration** button.
2. Tap the **Demonstration** button to select it.  
A screen advising you are in simulation mode displays, select **Continue**.

**NOTE:**

The demonstration takes you through a simulated vehicle identification process, simply accept the default data as it displays on the screen to continue.

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3. Follow the on-screen instructions and select as needed until the Systems menu displays.
  4. Select **OK** on the confirmation screen to load the selected database.
  5. Select **OK** from the Demo mode message screen. A systems menu, which shows all of the systems available for testing, displays
  6. Select from any of the systems listed, then select from the submenus.
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**IMPORTANT:**

Do not connect a vehicle to the scan tool while in the Demonstration mode.

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## Wireless Network Setup / Basic Operation

1. From the Home screen, navigate to **Tools > Settings > Configure Wi-Fi**.
  2. Select the **Wi-Fi Power** icon from the toolbar to turn the Wi-Fi radio on. The Wi-Fi power icon will change from a green checkmark icon to red "X" mark icon indicating Wi-Fi radio is currently on.
  3. Choose your wireless network and select **Connect**.
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**IMPORTANT:**

Be sure to read all of the safety messages in the Important Safety Instructions provided before operating this product.

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## Printing and Storing Saved Data

The PDL 4100 does not directly interface with a printer. Instead, the scan tool connects to your personal computer (PC) through the USB port (see Tools & Setup). Once connected to the PC, files can be printed, transferred, and copied using ShopStream Connect. ShopStream Connect is a free software application. Download ShopStream Connect at:

***<https://eu.sun-workshopsolutions.com>***



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