

**Tire Pressure Monitor  
System (TPMS)  
Scan Tool  
Quick Start Guide**

# IMPORTANT NOTICES

## SAFETY DEFINITIONS

All **Danger**, **Warning**, **Important**, and **Note** messages must be followed for your safety. These safety messages are in the following formats:



**DANGER:** Means you may risk possible loss of life.

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**WARNING:** Means you may risk possible bodily harm.

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**IMPORTANT:** Means you risk damage to the vehicle or the tool.

**NOTE:** *Provide clarity and helpful tips.*

These safety messages cover situations SPX is aware of. SPX cannot know, evaluate and advise you as to all of the possible hazards. You must be certain that any conditions or service procedures encountered do not jeopardize your personal safety.

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# Safety Precautions

**⚠ DANGER:** When an engine is operating, keep the service area **WELL VENTILATED** or attach a building exhaust removal system to the engine exhaust system. Engines produce carbon monoxide, an odorless, poisonous gas that causes slower reaction time and can lead to serious personal injury or loss of life.

## **⚠ WARNINGS:**

• When working with hydraulic or fuel lines, liquids under pressure may escape and create a dangerous condition. Use adequate ventilation and make sure there are no sparks or possibility of sparks present that may ignite any vapor.



• Wear an American National Standards Institute (ANSI) approved eye shield when testing or repairing vehicles. Objects propelled by whirling engine components or pressurized liquids escaping may cause personal injury.



• Set the parking brake and block the wheels before testing or repairing a vehicle. It is especially important to block the wheels on front-wheel drive vehicles because the parking brake does not hold the drive wheels.



• Do not drive the vehicle and operate the scan tool at the same time. Any distractions may cause an accident. Have one person operate the scan tool as another person drives the vehicle.

• Maintain adequate clearance around moving components or belts during testing. Moving components and belts can catch loose clothing, body parts, or test equipment and cause serious damage or personal injury.



• Automotive batteries contain sulfuric acid and produce explosive gases that can result in serious injury. To prevent ignition of gases, keep lit cigarettes, sparks, flames, and other ignition sources away from the battery at all times.



• Refer to the service manual for the vehicle being serviced and adhere to all diagnostic procedures and precautions. Failure to do so could result in personal injury or otherwise unneeded repairs.



• Use only specially designed replacement parts (brake hoses and lines) for ABS-equipped vehicles.

• After bleeding the brake system, check the brake pedal for excessive travel or a “spongy” feel. Bleed again if either condition is present.

• When installing transmitting devices (Citizen Band radio, telephone, etc.) on ABS-equipped vehicles, do not locate the antenna near the ABS control unit or any other control unit.



## **IMPORTANT:**

• To avoid damaging the scan tool or generating false data, make sure the vehicle battery is fully charged and the connection to the vehicle DLC is clean and secure.

• Do not place the scan tool on the distributor of a vehicle. Strong electro-magnetic interference can damage the scan tool.

• Never disconnect or reconnect any electrical connector while the ignition is on. Control unit damage may result.

## TPMS Scan Tool Overview

The TPMS Scan tool is an easy-to use, hand-held tool that lets you quickly look up vehicle TPMS information and reset procedures and perform Tire Pressure Monitor System diagnostics.

With the scan tool properly connected to a vehicle's data link connector (DLC), you can use the scan tool to read TPMS diagnostic trouble codes (DTCs) and view live data readings (datastream) from the vehicle's TPMS-related ECUs. You can also save "recordings" of data readings and perform special TPMS programming and reset procedures.

In addition, with the ScanMate PC software installed in a personal computer (PC), and with the scan tool properly connected to the PC, you can print data from the scan tool and upload recordings to the PC for viewing.

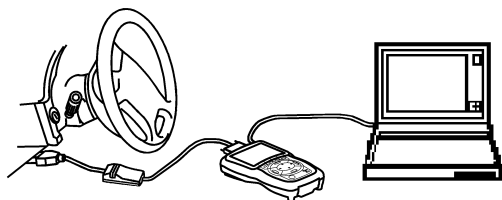


Figure 1: TPMS Scan Tool Connection to Vehicle (and optionally to a PC)

When you turn on the scan tool, the Application Manager screen appears for you to select the software applications in the scan tool as described below.

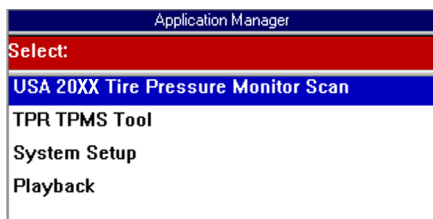


Figure 2: Application Manager Screen

- **USA 20XX Tire Pressure Monitor Scan** — for diagnostic testing of Tire Pressure Monitor Systems.
- **TPR TPMS Tool** — for accessing TPR tool menus.
- **System Setup** — for adjusting default settings for the TPMS Scan tool.
- **Playback** — for viewing saved recordings.

## TPMS Scan Tool Overview

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When TPR TPMS Tool is selected from the Application Manager screen, the following selections are available.

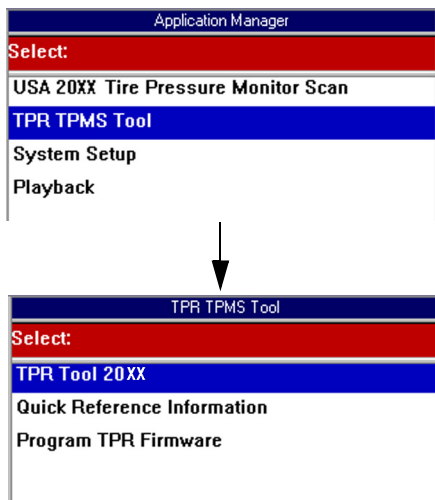


Figure 3: TPR TPMS Tool Screen

- **TPR Tool 20XX** — this application supports TPR tool and will launch the vehicle selection menu.
- **Quick Reference Information** — for quickly finding system descriptions, torque specifications, and reset procedures for Tire Pressure Monitor Systems.
- **Program TPR Firmware** — an application to update the firmware of the TPR tool.

**Note:** See the “Tire Pressure Monitoring System (TPMS) TPR Reset Tool User Guide” included in the TPR kit for information on TPR tool operation.

## TPMS Scan Tool Features

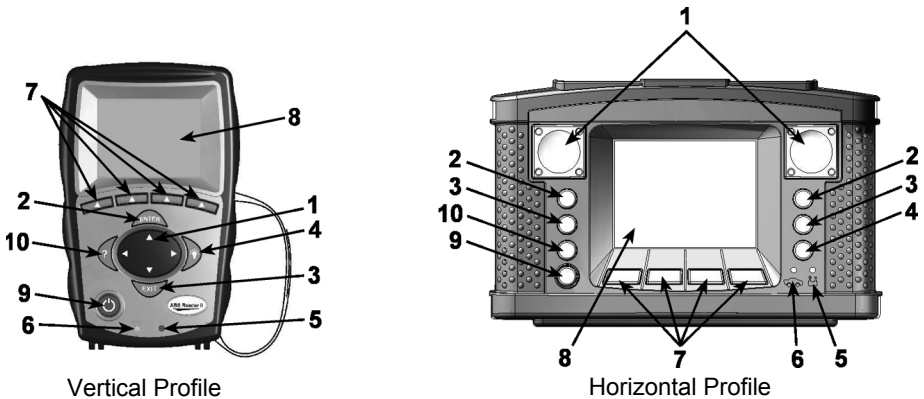


Figure 4: TPMS Scan Tool Front View

- 1 **Arrow Keys (Up, Down, Left, and Right)** — select a menu option or scroll through a screen of data or text.
- 2 **ENTER Key(s)** — executes a selected menu option and/or displays the next screen.
- 3 **EXIT Key(s)** — turns the LCD backlight on when using internal battery power. (When using external power, the backlight is always on when the tool is on.)
- 4 **LIGHT Key** — turns the LCD backlight on when using internal battery power. (When using external power, the backlight is always on when the tool is on.)
- 5 **External Power Indicator** — indicates when the scan tool is drawing power from a source other than the internal batteries, such as from a Smart Cable vehicle cable connection or an optional cigarette lighter power adapter or optional AC / DC power adapter.
- 6 **Communication Indicator** — indicates when the scan tool is properly connected and communicating with the vehicle's ECU.
- 7 **Variable Function Keys** — four keys that correspond with “buttons” on some screens; execute special commands.
- 8 **LCD Screen** — displays the menus and data screens.
- 9 **On / Off Button** — turns the scan tool on and off. When using external power, the scan tool stays on until you turn it off. When using internal battery power, the scan tool turns off automatically after a set time (see Unit Defaults in **Adjust Default Settings** on page 6).
- 10 **HELP Key** — displays helpful information.

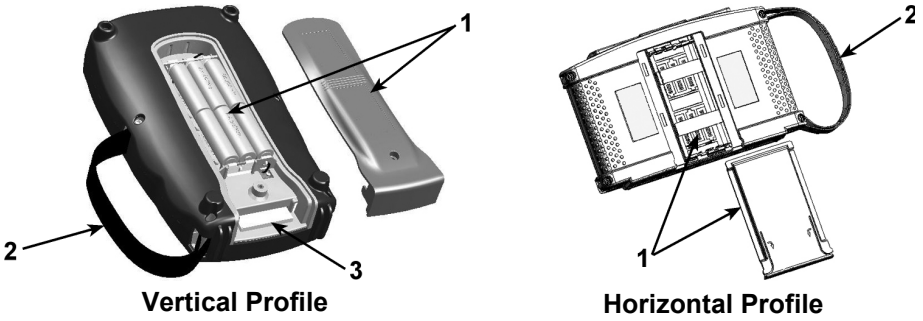


Figure 5: TPMS Scan Tool Back View

- 1 **Battery Compartment and Cover** — holds six (6) 1.5 volt batteries.
- 2 **Strap** — fits around your hand.
- 3 **Flash Card Port** — holds a flash card (future use).

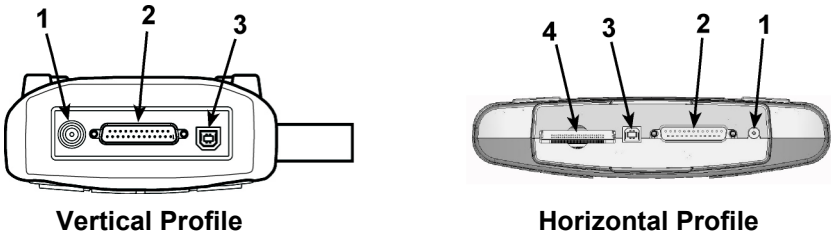


Figure 6: TPMS Scan Tool Top View

- 1 **External Power Port** — connects the power adapter.
- 2 **DB25-Pin Port** — connects the vehicle DLC cable.
- 3 **USB Port** — connects a USB cable for connecting to a PC.
- 4 **Flash Card Port** — holds a flash card (future use).

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## Setup

Setup includes providing power to the scan tool, adjusting default settings, and installing the ScanMate TPMS PC software and the *TPMS Scan Tool User Guide*.

### Provide Power to Scan Tool



Figure 7: Batteries

Before using the TPMS Scan tool, provide power from six (6) internal 1.5 volt batteries. (After you start vehicle diagnosis, the OBD II cable connection provides external power to the scan tool.)

- The 1.5 volt batteries can be either alkaline or rechargeable nickel metal hydride (NiMH) batteries. Insert the batteries into the battery compartment on the back side of the scan tool.

**IMPORTANT: Use only high-quality batteries. During long periods of storage, remove the batteries to prevent damage from battery leakage.**

- An optional cigarette lighter power adapter and/or optional AC / DC power adapter are available for connecting the scan tool directly to the vehicle's battery or to an electrical outlet. For details, refer to **Appendix A: Accessory Components** in the *User Guide*.

**IMPORTANT: To conserve internal battery life, use either the OBD II cable connection or a power adapter as the scan tool's primary power source; do not use the internal batteries as the primary power source. Use the internal batteries only when adjusting default scan tool settings, during test startup (for vehicle identification), or when uploading files to the ScanMate TPMS software on a PC. In addition, use the backlight in poorly-lit conditions only.**

## Adjust Default Settings

The System Setup functions let you view information about the scan tool and adjust default settings for the scan tool as follows:

- 1 Press the **On / Off** button to turn the TPMS Scan tool on; wait for the Application Manager screen to appear.

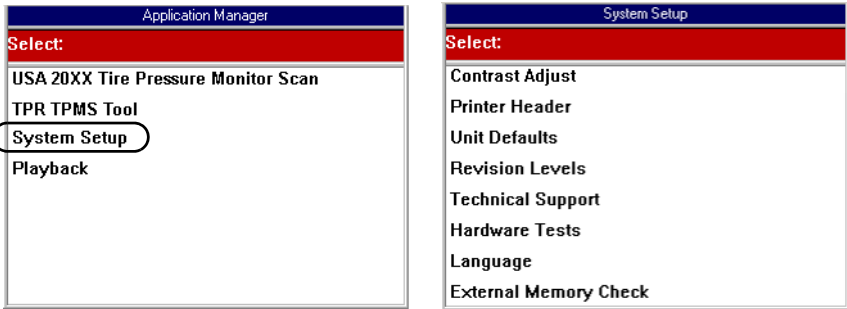


Figure 8: Application Manager Screen and System Setup Screen

- 2 Use the **Down Arrow** key to select **System Setup** and then press the **ENTER** key. This displays the System Setup screen, shown above.
- 3 Use the **Down Arrow** key to select an item to adjust (described below) and then press the **ENTER** key.
  - **Contrast Adjust** — adjust the contrast of the LCD screen.
  - **Printer Header** — set up a heading for reports that you print from the scan tool.
  - **Unit Defaults** — set the date, time, units-of-measure, and automatic shut down time. It also lets you turn the audible beep and printer header functions on or off.
  - **Revision Levels** — display software version numbers.
  - **Technical Support** — display technical support information.
  - **Hardware Tests** — test the LCD screen, keypad keys, and beeper; view the time clock and serial number for the scan tool.
  - **Language** — set the default language for the TPMS Scan tool software.
  - **External Memory Check** — check the system files on a compact flash card in the compact flash port.
- 4 Follow any on-screen instructions; use the **Arrow** keys as needed to adjust settings; use the **EXIT** key to exit the screens. For detailed instructions, refer to the *User Guide*.

## Install the PC Software

The ScanMate TPMS CD installs the software and **User Guide** on a personal computer (PC).


### **PC Requirements**

The PC should have the following minimum requirements:

- Microprocessor: 233 MHz Pentium, minimum
- RAM: 128 MB, minimum (256 MB recommended)
- Hard Disk (C drive): 20 MB free space, minimum
- PC Communication Port: USB
- Display (Monitor): Color, set at 800 x 600 pixel, minimum
- Operating System: Microsoft® Windows XP® (updated with service pack 2) or Microsoft® Windows Vista®
- Internet Browser: Microsoft Internet Explorer 5.0 or newer

### **Software Installation**

Use the following steps to install the software.

- 1 Insert the ScanMate TPMS CD in your PC's CD drive and follow the on-screen instructions. Be aware of the following:
  - The install software uses Windows auto-play technology. If the instructions do not appear automatically, press the Windows logo key and the R key at the same time (  +R). This displays a Run (or Open) dialog box. Click the Browse button and then find and select your CD drive. After this, select the Setup.exe file and click the Open button (or OK). Then click the OK button in the Run dialog box.
  - The installation places a ScanMate TPMS icon on the Windows desktop and places the ScanMate TPMS option on the Windows Start, Programs menu. You can use either one of these to start the software application. Refer to **ScanMate TPMS PC Software** on page 17.
  - The installation places a *User Guide* icon on the Windows desktop. You use this icon to open the **User Guide**. Refer to **User Guide Instructions** on the next page.
- 2 When the installation is finished, remove the CD from the PC's CD drive.

### **TPMS Scan Tool Updates or New Applications**

To obtain scan tool updates or new applications, contact your local distributor. Update kits may include a memory card and complete installation instructions.

# User Guide Instructions

The *User Guide* provides complete operating instructions for the scan tool. It is provided as a portable document format (pdf) file that installs on the PC during the ScanMate Software installation (see the previous page).

To open the *User Guide*, you double-click the Windows desktop icon. This displays a Select User Guide window. Click Scan Tool to open the User Guide in an Adobe® Acrobat Reader® window.

**Note:** If the *User Guide* does not open, the Acrobat Reader software application may not be installed on the PC. See the Note at the bottom of this page.

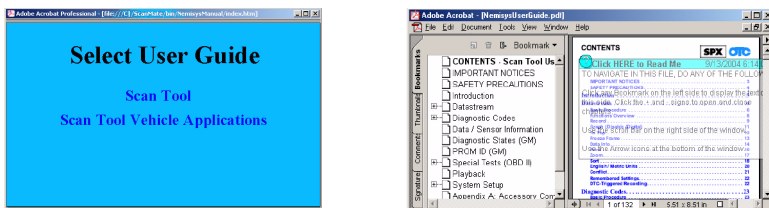


Figure 9: Select User Guide and Scan Tool User Guide Windows

The left side of the *User Guide* window contains a Table of Contents. You click a topic to display its contents. The right side of the window displays the contents; you can right-click inside the contents to display a navigation menu. You can also print the *User Guide*. For help using the file, open Acrobat Reader from the Windows Start, Programs menu and then select Help, Reader Help from the main menu.

**Note:** To view the *User Guide*, the Adobe Acrobat Reader software application must be installed on the PC. When you open the *User Guide*, if an Open With box appears, click the Cancel button and do one of the following to install Acrobat Reader:

- To install an English version, insert the ScanMate CD into the PC's CD drive. When the installation Welcome window appears, click Cancel, then Yes, then Finish. Then click the Windows Start button and click Run to display the Run box. Click the Browse button and then select My Computer, ScanMate (drive), and AcroReader51\_ENU.exe. Click the Open button (or OK). Then click the OK button in the Run box and follow the on-screen instructions.
- To install a version for another language, go to the website:  
[http://www.adobe.com/products/acrobat/reader\\_archive.html#Win](http://www.adobe.com/products/acrobat/reader_archive.html#Win)

*Disclaimer: Acrobat Reader is licensed and copyrighted by Adobe Systems Incorporated. It is provided as a courtesy, not a license for use. If you install it, you must accept and abide by the terms of it's license agreement, which display the first time you start the application.*

## Test Startup and Vehicle Connection

For Tire Pressure Monitor functions, the TPMS Scan tool must be connected to a vehicle with the Smart cable. You first enter the vehicle information into the tool to identify the vehicle and then connect the cable and continue with the vehicle diagnostics.

**Note:** *This manual provides instructions in the order listed above, but you may optionally connect the cable first and then enter the vehicle information.*



### **WARNING:**

Before performing any diagnostic functions, refer to the **Safety Precautions and instructions provided in the *User Guide*** and the warnings provided by the vehicle manufacturer. In addition, follow any warnings and descriptions provided on the scan tool screens.

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## Step 1: Enter the Vehicle Information

- 1 Press the **On / Off** button to turn on the scan tool; wait for the Application Manager screen to appear.

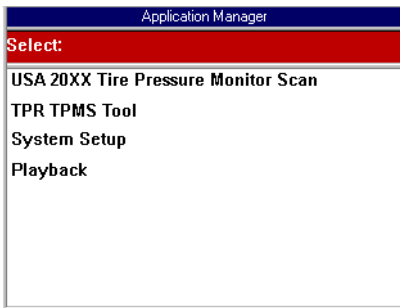


Figure 10: Application Manager Screen

- 2 Select **Tire Pressure Monitor** and press the **ENTER** key. A series of Vehicle Identification screens appears for you to identify the vehicle.

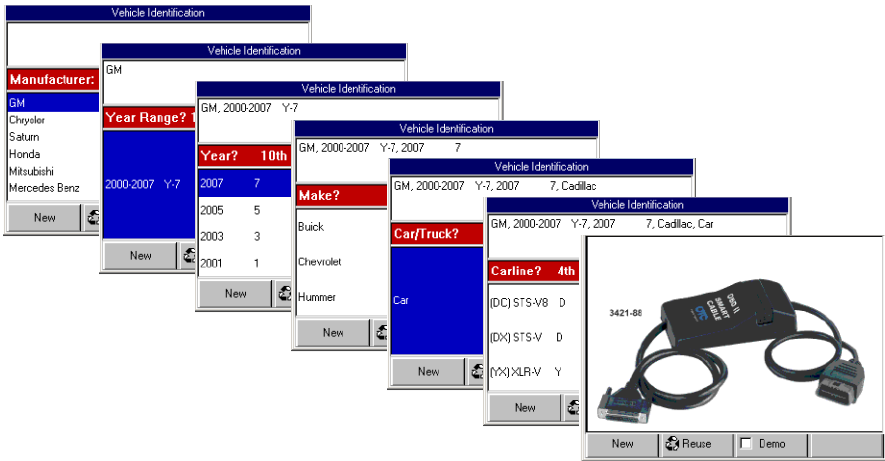


Figure 11: Series of Vehicle Identification Screens

**3** Do any of the following on the Vehicle Identification screens:

- On each screen that appears, use the **Arrow** keys to select the correct option and then press the **ENTER** key. Do this until the vehicle is completely identified and the Required Cables illustration appears. Then go to step **4**.
- To move backward through the screens, one at a time, use the **EXIT** key.
- To return to the first Vehicle Identification screen and start over, press the function key that corresponds to the **New** button.
- To reuse information saved for a vehicle already tested, press the function key that corresponds to the **Reuse** button. This displays the Reuse Vehicles screen. Use the **Up and Down Arrow** keys to select a vehicle description and then press the **ENTER** key. This displays the Required Cables illustration. Go to step **4**.

**Note:** The Reuse Vehicles list holds five (5) descriptions. When full, old descriptions delete as you enter new ones. To prevent a description from deleting, select it and press the **Save** function key. This places a disk icon by the description. (Use the **Delete** function key to delete a selected description.)

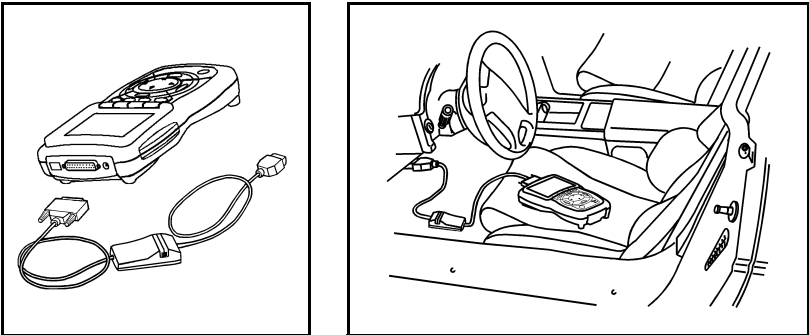
- To display demonstration data in the software, press the function key that corresponds to the **Demo** button. A checkmark in the box indicates the Demo function is on (press the key again to turn the function off).

**4** With the Required Cables screen displayed on the scan tool (Figure 11), continue with **Step 2: Connect the Cable** on page 11.

## Step 2: Connect the Cable

**IMPORTANT:** Make sure you have correctly entered the vehicle information in the scan tool; incorrect vehicle identification can produce unexpected test results (see *Step 1: Enter the Vehicle Information* on page 9).

**Note:** Leave the Required Cables screen displayed on the scan tool. Do not turn off the scan tool.



**Figure 12: Cable Connection to Scan Tool and Vehicle DLC**

- 1 Connect the Smart cable's 25-pin connector to the DB25-pin port on the top of the scan tool and connect the J1962 connector to the vehicle's DLC, as shown above.  
**Note:** The vehicle's DLC is not always located under the dash as shown.
- 2 Place the vehicle's ignition key in the On (or Run) position. Do not start the engine.  
**Note:** If the external power indicator (🔌) on the scan tool is not lit, make sure the cable is connected securely.
- 3 With the Required Cables illustration still displayed on the scan tool, press the **ENTER** key. This initiates communication with the vehicle's computer and displays the next screen.  
**Note:** If the communication indicator (🚗) on the scan tool is not lit, check the cable connection.

### Step 3: Select the Diagnostic Function

After you connect the cable and press the ENTER key on the scan tool, use the following steps to select a diagnostic function.

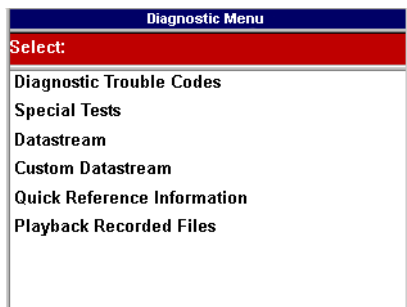


Figure 13: Message Screen and Diagnostic Menu Screen

1 If one or more Message (Warning) screens appear, follow the on-screen instructions or press the **ENTER** key to continue. Do this until the Diagnostic Menu screen appears, as shown above.

2 Select a **diagnostic function** and press the **ENTER** key.

**Note:** *The Diagnostic Menu screen shown above is only an example that shows all possible options. During testing, only the options available for the vehicle and ECU being tested will appear on this screen.*

3 Refer to the brief descriptions on the next page. For detailed instructions, refer to the **User Guide**.

### ***Diagnostic Trouble Codes***

The Diagnostics Trouble Codes functions let you read, review, and clear TPMS-related diagnostic trouble codes (DTCs) from a selected ECU.

### ***Special Tests***

The Special Tests functions let you program and reset TPMS-related components (such as sensors).

### ***Datastream***

The Datastream function lets you view TPMS-related data readings from a selected ECU. With the Datastream screen displayed, you can view the data in an LED or graphical format, record and save files for later viewing, sort the data, pause the readings and view past data, print the data, and more.

### ***Custom Datastream***

The Custom Datastream function lets you select and view TPMS-related data readings for specific components (sensors, switches, etc.) controlled by a specific ECU.

### ***Quick Reference Information***

The Quick Reference Information function lets you view system descriptions, torque specifications, and reset procedures for Tire Pressure Monitor Systems. This option is also available on the Application Manager menu screen, as described on the next page.

### ***Playback Recorded Files***

The Playback Recorded Files function lets you view previously recorded data files. This option is also available on the Application Manager menu screen, as described on page 15.

## Quick Reference Information

The Quick Reference Information function lets you quickly view TPMS descriptions, torque specifications, and reset procedures.

- 1 Make sure the scan tool has power (batteries installed is sufficient but you may want to connect optional external power to conserve battery life).

**Note:** *The scan tool does not have to be connected to a vehicle.*

- 2 Press the **On / Off** button to turn on the scan tool; wait for the Application Manager screen to appear.

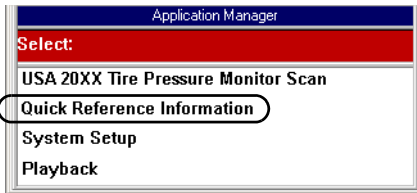


Figure 14: Application Manager Screen

- 3 Select **Quick Reference Information** and press the **ENTER** key. A series of screens appears for you to identify the vehicle and the procedures to view.

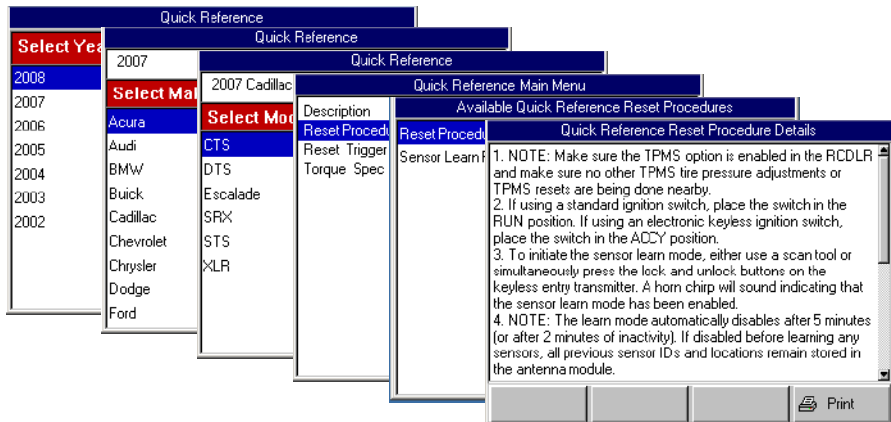


Figure 15: Series of Selection Screens

- 4 On each screen that appears, use the **Arrow** keys to select the correct option and then press the **ENTER** key. Do this until the vehicle is completely identified and the Quick Reference information or procedure screen appears, as shown above.

**Note:** *To move backward through the screens, use the **EXIT** key.*

- 5 View, and optionally print, the data as necessary. Refer to **TPMS Scan Tool Printing Procedure** on page 19.
- 6 When finished, use the **EXIT** key to return to previous screens.

## Playback

The Playback function lets you view data recorded with the Datastream Record function (see the **User Guide** for details). It also lets you save and delete recorded files.

**Note:** You can also upload and view recorded data files on a PC. For details, refer to **ScanMate TPMS PC Software** on page 17.

- 1 Make sure the TPMS Scan tool has power (batteries installed is sufficient but you may want to connect optional external power to conserve battery life).

**Note:** The TPMS Scan tool does not have to be connected to a vehicle.

- 2 Press the **On / Off** button to turn the TPMS Scan tool on; wait for the Application Manager screen to appear.

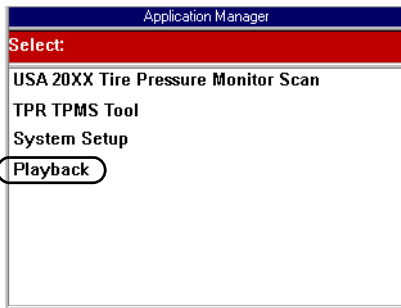


Figure 16: Application Manager Screen

- 3 Select **Playback** and press the **ENTER** key. This displays the Events to Playback screen (Figure 17 on page 16).

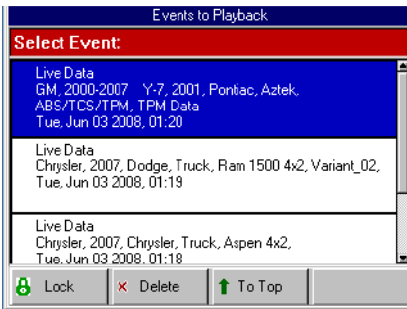


Figure 17: Events to Playback Screen

- 4 Select the recorded event to view and press the **ENTER** key. (The events are identified by the vehicle description, date, and time of the recording.) This displays the recorded Event in the Playback screen.

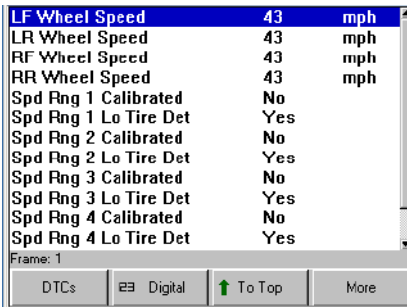


Figure 18: Playback Screen

- 5 Use the **Arrow** keys to view the data. When you use the **Left** and **Right Arrow** keys, the Frame number in the status line changes as you move through the recording.
- 6 Optionally, use the function keys to display lines as graphs, move lines to the top of the screen, print the data, magnify the view of lines, or sort the lines.

**Note:** For additional information about the screens and function buttons, refer to the User Guide.

- 7 When finished, use the **EXIT** key to exit the screen.

## ScanMate TPMS PC Software

The ScanMate TPMS software application lets you print data and upload recorded files using a personal computer (PC).

A special feature of the ScanMate TPMS application is the variety of methods for viewing playback data. You can view data as gauges, block graphs, or bar graphs; you can add cursors and markers; and you can export files as text files or bitmaps (and even send them by email to Vehicle Diagnostic Help Services).

### TPMS Scan Tool / PC Connection

To use the ScanMate TPMS application for printing data directly from the TPMS Scan tool or for uploading recorded files from the TPMS Scan tool, connect the TPMS Scan tool and the PC with a USB cable.

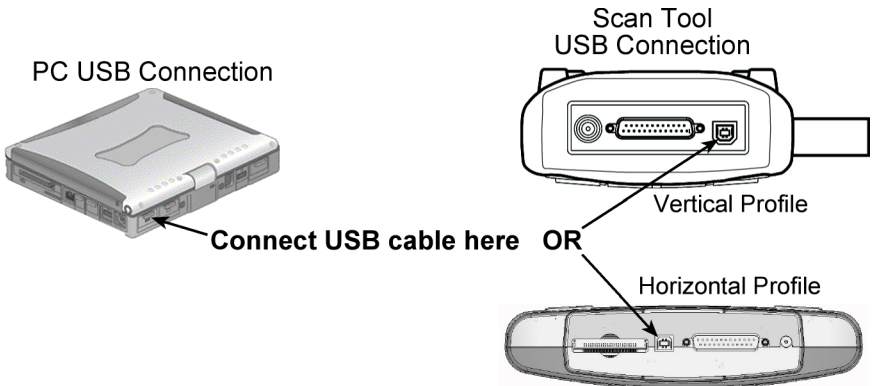


Figure 19: TPMS Scan Tool Connection to PC

### Scan Tool Update

The ScanMate software application lets you update the scan tool's software through the ScanMate application, see Instruction 545752.



## ScanMate TPMS Application Overview

To start the ScanMate application, click the Windows desktop icon or select ScanMate from the Windows Start menu. The first window that appears is the ScanMate main window. This window has function buttons at the top for accessing the software functions. They include the following:

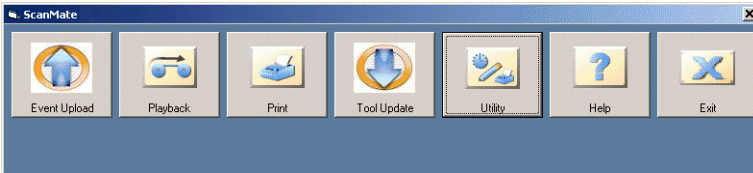



Figure 20: ScanMate Main Window

	<p><b>Event Upload</b> — checks for a TPMS Scan tool connection, looks for saved playback files on the scan tool, uploads the playback files to the PC, and then displays a dialog box for you to open a playback file for viewing.</p> <p><b>Note:</b> <i>To upload playback files, disconnect the scan tool from the vehicle.</i></p>
	<p><b>Playback</b> — displays a dialog box for you to select a playback file to open. After you select a file, it opens in a separate Playback window. You can review, save, or delete the playback file.</p> <p><b>Note:</b> <i>To view playback files on the PC, you must first upload the files with the Event Upload function. Then, to playback and print the uploaded files, you do not have to connect the scan tool and PC.</i></p>
	<p><b>TPMS Scan Tool Print</b> — displays a dialog box for you to print data directly from the TPMS Scan tool. This can be live data you are viewing or it can be playback data saved in the scan tool. (See the procedure on the next page.)</p>
	<p><b>Tool Update</b> — for future use.</p>
	<p><b>Utility</b> — displays a window for you to enter shop information, change the software language, and view software information.</p>
	<p><b>Help</b> — displays the ScanMate TPMS Help System window.</p>
	<p><b>Exit</b> — closes the application.</p>

For step-by-step instructions, start the ScanMate TPMS application and click the **Help** button. (For special TPMS Scan tool printing instructions, see the next page.)

## TPMS Scan Tool Printing Procedure

To print data directly from the TPMS Scan tool, the scan tool must be connected to a PC that has the ScanMate TPMS software installed and prepared for printing. Use the following steps as a reference for printing. For detailed instructions use the ScanMate TPMS application's Help System.

- 1 Make sure the TPMS Scan tool is connected to the PC. For details, refer to **TPMS Scan Tool / PC Connection** on page 17.
- 2 Start the ScanMate TPMS application on the PC.
- 3 On the ScanMate TPMS main window, click the **Print**  button. This displays the ScanMate TPMS Print dialog box.

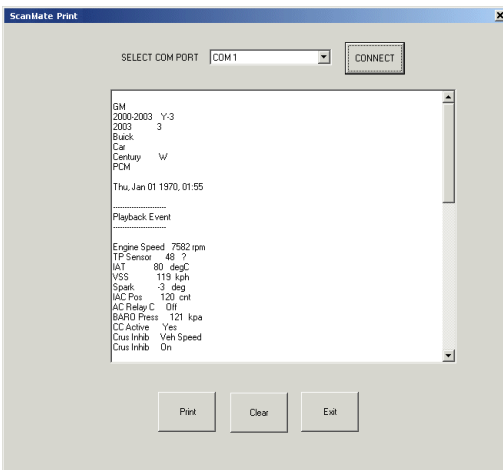


Figure 21: ScanMate TPMS Print Dialog Box

- 4 In the ScanMate TPMS Print dialog box, do the following:
  - a Select the COM port for the TPMS Scan tool connection and click the **CONNECT** button.
  - b Check the display area. If it contains data you do not want to print, click the **Clear** button.
- 5 On the TPMS Scan tool, display the data to print and press the **Print** key. This uploads the data to the display area in the ScanMate TPMS Print dialog box on the PC.
- 6 In the ScanMate TPMS Print dialog box, view the data and click the **Print** button to print the data to the PC's default printer.

**Note:** The TPMS Scan tool header prints on all reports. For details, refer to **Adjust Default Settings** on page 6.

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Order replacement and optional parts directly from your SPX authorized tool supplier. Include the quantity, part number, and item description.

## **Technical Service**

If you have any questions about the operation of the product, call (800) 533-6127.

## **Repair Service**

When sending your SPX electronic product in for repair, include the following:

- contact name
- telephone number
- description of the problem
- proof-of-purchase for warranty repairs
- preferred method of payment for non-warranty repairs

*For non-warranty repairs, you can make payment with Visa, Master Card, or with approved credit terms. To receive a credit application, fax your request to the Credit Department at 800-962-8734.*

Send the unit to:

SPX Service Repair  
755 Eisenhower Drive  
Owatonna, MN 55060-0994



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