Quick Start Guide

A quick start guide for the downloading, installation and basic operation of WABCO TOOLBOX™ 12 PC-diagnostic software.

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Introduction

WABCO TOOLBOX™ 12 provides computer-based diagnostics for SAE J1939, SAE J1708 and PLC vehicle control systems products. The program displays information for the vehicle system under test, displays active and stored diagnostic trouble codes, repair instructions and activates system components, verifying system integrity.

NOTE: For complete WABCO maintenance information, refer to the appropriate maintenance manual. WABCO publications are available on our website:

wabco-na.com
### TOOLBOX™ 12 System Requirements

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer and processor</td>
<td>PC: 1 gigahertz (GHz) or faster x86-bit or x64-bit processor</td>
</tr>
<tr>
<td>Memory</td>
<td>PC: 1 GB RAM (32-bit); 2 GB RAM (64-bit)</td>
</tr>
<tr>
<td>Hard disk</td>
<td>PC: 100 MB of available disk space</td>
</tr>
<tr>
<td>Display</td>
<td>Standard VGA graphics adapter</td>
</tr>
<tr>
<td></td>
<td>800 x 600 screen resolution or higher</td>
</tr>
<tr>
<td>Operating system</td>
<td>PC: Windows XP + SP3, Windows 7*, Windows 8</td>
</tr>
<tr>
<td>Framework</td>
<td>PC: Microsoft.NET 3.5 or later</td>
</tr>
</tbody>
</table>

**Hardware Interface Requirements: Vehicle Diagnostic Adapter**

Macintosh and Linux operating systems are not supported.

Windows® is a registered trademark of the Microsoft Corporation.

*For Vista and Windows 7, ensure the following:

- The person installing the adapter drivers and TOOLBOX™ Software must be logged in as “Administrator”.
- The adapter drivers and TOOLBOX™ must be installed on the machine for “ALL USERS”, and not just the current user.
To ensure full product compatibility and maintain full function of TOOLBOX™ 12, the software must be connected to the Internet quarterly. The software provides notification of the approaching deadline beginning 30 days before expiration.

If Internet connection is not possible, or the quarterly date has passed, please contact the Snap-On Tools Customer Call Center at (248) 293-8284 or (800) 639-6774 to reactivate your software.

Prior to downloading TOOLBOX™ 12, please verify that your computer and hardware meet the minimum requirements previously outlined in the System Requirements section of this Quick Start Guide.

When installing TOOLBOX™ 12, it is highly recommended you close or disable any other currently running programs including antivirus.

Some operating systems or corporate policies restrict the installation of software to users with full administrative rights. Check with your IT department to verify that you have the appropriate administrative rights to continue with the installation.
Answer the prompts that appear during setup. TOOLBOX™ 12 will acknowledge a successful installation and automatically open the software registration process.

When prompted to select between Save and Run, select the Save option. Save the file to an easy-to-access area on the computer, such as the desktop.

Do not attempt to install the software until the downloaded is completed.

**NOTE:** TOOLBOX™ 12 should be installed under “Administrator” with full rights for “All Users”. Please check with your IT department. Some PCs may require the temporary disabling of Windows UAC (User Access Control) for the downloading and installation of TOOLBOX™ 12 software.

Temporarily disabling UAC settings may be required to resolve certain download and installation issues related to individual PC configurations prior to TOOLBOX™ 12 software installation.
Disabling UAC: Windows VISTA

Open up Control Panel, and type “UAC” into the search box. In the dialogue box that appears, click on the “Turn User Account Control (UAC) on or off” link.

On the next screen, uncheck the box for “Use User Account Control (UAC)”, and then click on the OK button.

Reboot your computer to allow the changes to take effect. You may re-enable the UAC setting after the installation of the TOOLBOX™ 12 software is complete.

Disabling UAC on Windows 7

Type “UAC” into the Start Menu Control Panel search box. Select “Change User Account Control Settings” or simply press the Enter key.

In the dialogue box that appears, drag the slider down to the “Never Notify” position and then select OK.
You may restore the UAC setting to the desired selection after the installation of the TOOLBOX™ 12 software is complete.

**TOOLBOX™ 12 Installation**

**Install TOOLBOX™ 12 Software**

1. After completing your purchase from the website, click on the blue download button.

2. When prompted to select between Save and Run, select the Save option. One of the following messages will appear depending on the browser you are using.
In Firefox browser, you will see this message.

In Internet Explorer, you will see this message.

Save the file to an easy-to-access area on the computer, such as the desktop.

3. After the files are saved, open the folder. Select “Run” which begins the setup/installation process.

4. As each process is completed, click “Next” to continue.
5. Read the user agreement, select “I agree with the terms of the software agreement”, and then click on “Next” to continue the installation process.

6. After clicking on “Next”, the files begin downloading. You will receive a confirmation window. Click “Finish” to complete the process and launch the TOOLBOX™ 12 diagnostic software.
Hardware Setup

Diagnostic adapters require two connections for communications between the vehicle’s hardware and TOOLBOX™ 12 software.

- Establish a connection between the computer’s USB or serial port and the diagnostic adapter.

- Establish a connection between the diagnostic adapter and the vehicle’s SAE diagnostic interface connector.

Please refer to your hardware manufacturer’s installation and connection procedures. Please ensure you have the latest software, drivers and firmware for your diagnostic tool.

If correctly installed and connected, the diagnostic adapter is available for selection by clicking on the “Utilities” button on the TOOLBOX™ 12 software.

**NOTE:** TOOLBOX™ 12 diagnostic software is only operational with WABCO vehicle products.

With the installation of the correct tool manufacturer’s drivers, WABCO software provides a diagnostic interface for adapters that are compliant and adhere to the RP1210A and RP1210B specification.
Below is a list of common diagnostic tools and their manufacturer known to operate with WABCO diagnostics and application software. Please contact the manufacturer directly or visit their website to determine your specific diagnostic needs.

**Noregon Device List:**
- DLA
- DLA+
- Trailer Diagnostic Adapter

www.noregon.com

**Nexiq Device List:**
- USB-Link
- USB-Link2

www.nexiq.com

**Dearborn Group Device List:**
- DPA 4 Plus
- DPA 5

www.dgtech.com

**NOTE:** WABCO neither promotes nor recommends any specific manufacturers or diagnostic adapters.
Starting TOOLBOX™ 12 Software

Selecting the TOOLBOX™ 12 icon opens the TOOLBOX™ main menu. The main menu provides multiple selections for testing and diagnosing WABCO systems. Each selection opens an independent diagnostic software package.

Clicking Exit closes the TOOLBOX™ 12 application and returns to the desktop environment.

Pneumatic ABS (J1939)

Selecting the Pneumatic ABS icon opens the TOOLBOX™ 12 SAE J1939 Tractor diagnostics for WABCO 1939 ABS-equipped vehicles. This application displays information from the vehicle ABS system under test, displays active and stored diagnostic trouble codes, provides appropriate repair instructions and also provides a means to activate system components, verifying system integrity.

OnGuard™

Selecting the OnGuard™ icon opens the TOOLBOX™ 12 diagnostics for WABCO OnGuard™-equipped vehicles. This application displays information from the RADAR, diagnostic trouble codes and verifies system integrity.
EBS
Selecting the EPB icon opens the TOOLBOX™ 12 diagnostics for WABCO EPB™-equipped vehicles. This application displays information from the EPB, diagnostic trouble codes and verifies system integrity.

ECAS CAN2 (Truck and Bus)
Selecting the ECAS icon opens the TOOLBOX™ 12 diagnostics for WABCO ECAS-equipped vehicles. This application displays information from the vehicle ECAS system, displays diagnostic trouble codes and provides a means to activate system components, verifying system integrity.

OnLane™ LDW
Selecting the OnLane™ icon opens TOOLBOX™ 12 diagnostics for WABCO OnLane™-equipped vehicles. This application displays OnLane™ diagnostic trouble codes and provides the end user video extraction capabilities.

Aftermarket Programming
WABCO has revolutionized the servicing of ABS controllers with the launch of Aftermarket Programming which alleviates the frustration of waiting for a replacement electronic control unit (ECU) for an antilock brake system (ABS). Instead of waiting for an ECU to be built and shipped to service a unit down, service centers can now stock a small inventory of partially programmed control units and use the TOOLBOX™ Aftermarket Programming application to quickly configure these parts for a wide variety of vehicles.
J1708/PLC TOOLBOX™
Selecting the J1708/PLC TOOLBOX™ icon opens the J1708/PLC TOOLBOX™ diagnostics for WABCO J1708/PLC-equipped vehicles. The application is an earlier version of WABCO’s PC diagnostic software. It provides a means to diagnose tractor ABS, trailer ABS, hydraulic ABS, hydraulic power brake ABS and ECAS systems. It displays information from the vehicle system under test, displays active and stored diagnostic trouble codes, provides appropriate repair instructions and provides a means to activate system components, verifying system integrity.

Utilities
Selecting this icon opens the TOOLBOX™ 12 Utility Menu. The utility menu provides the means of configuring a diagnostic adapter, an SAE J1939 bus monitoring tool, a software update checker and software revision history information. The Registration Option provides the end user the ability to deactivate and transfer the TOOLBOX™ software to another PC.

Exit
Selecting the EXIT icon closes TOOLBOX™ 12 and returns to the desktop environment.
Adapter Selection

The Adapter Selection menus provide the means to select and configure the diagnostic adapter to be used. Please verify you have the latest software drivers and firmware for your specific diagnostic tool. Drivers and firmware updates are available from your hardware manufacturer’s website or by calling them directly. To configure a diagnostic adapter, select the Utilities icon to open the Utilities Menu.

Select “Adapter Selection”.

NOTE: Your specific adapter is only available if it is a compatible device and the software drivers have been installed correctly. If your device is not listed, please re-install the appropriate adapter drivers or contact the manufacturer. Vendor name and specifics should appear on the parts label of the adapter or its documentation.
Vendor

Click the down arrow for a list of diagnostic tools whose drivers have been correctly installed.

Protocol

Click the down arrow for the protocol choices.

**NOTE:** Changing protocols during the use of TOOLBOX™ 12 software requires an ignition or power cycle. This is required to reset the hardware and establish communications.
Click the down arrow for the adapter choices.

Once the correct settings have been selected, click OK to accept and close the Adapter Selection window.

**NOTE:** Some vendors may have multiple adapter and choice selections. Please refer to your specific hardware manufacturer’s manual to determine specific adapter type and capabilities.

**NOTE:** Changing protocols during the use of TOOLBOX™ 12 software requires an ignition or power cycle. This is required to reset the hardware and establish communications.
Selecting the TOOLBOX™ J1708/PLC icon opens the TOOLBOX J1708/PLC main menu. The main menu provides multiple selections for testing and diagnosing WABCO SAE J1708 and PLC systems. Each selection opens an independent diagnostic software package.

**Exit**

EXIT closes the J1708 TOOLBOX™ main menu.

**Tractor ABS**

Selecting this software application opens the TOOLBOX™ SAE J1708 Tractor diagnostics for WABCO ABS-equipped vehicles. This application displays information from the vehicle’s ABS system, displays active and stored diagnostic fault codes, provides appropriate repair instructions and provides a means to activate system components, verifying system integrity.
Trailer ABS

Selecting this software application opens the TOOLBOX™ SAE J1708/PLC Trailer diagnostics for WABCO Enhanced Easy-Stop™-equipped trailers.

**NOTE:** If connecting directly to the ABS ECU through a diagnostic cable, verify the protocol is set to J1708. If you are connecting to the ECU through the 7-way (J2497) connector at the nose of the trailer, verify the protocol is set to PLC.

This application displays information from the trailer ABS system, displays active and stored diagnostic fault codes, provides appropriate repair instructions and provides a means to activate system components, verifying system integrity.

Hydraulic ABS

Selecting this software application opens the TOOLBOX™ SAE J1708 Hydraulic ABS diagnostics for WABCO hydraulic ABS-equipped vehicles. This application displays information from the vehicle ABS, displays active and stored diagnostic fault codes, provides appropriate repair instructions and provides a means to activate system components, verifying system integrity.

ECAS

Selecting this software application opens the TOOLBOX™ SAE J1708 ECAS diagnostics for WABCO ECAS-equipped vehicles. This application displays information from the vehicle ECAS system, displays active and stored diagnostic fault codes and provides a means to activate system components, verifying system integrity.
RSSplus™ Trailer ABS

Selecting this software application opens the TOOLBOX™ SAE J1708/PLC Trailer diagnostics for WABCO RSSplus™ equipped trailers.

**NOTE:** If connecting directly to the ABS ECU through a diagnostic cable, verify the protocol is set to J1708. If you are connecting to the ECU through the 7-way (J2497) connector at the nose of the trailer, verify the protocol is set to PLC.

This application displays information from the trailer ABS system, displays active and stored diagnostic fault codes, provides appropriate repair instructions and provides a means to activate system components, verifying system integrity.
Configure J1708 Diagnostic Adapter in TOOLBOX™ J1708

Select “System Setup” then “Adapter Selection” from the J1708/PLC main menu.

The Adapter Selection menus provide the means to select and configure the diagnostic adapter to be used. Please verify you have the latest software drivers and firmware for your specific diagnostic tool. Drivers and firmware updates are available from your hardware manufacturer’s website or by calling them directly. To configure a diagnostic adapter, select the Utilities icon to open the Utilities Menu.
Vendor

Click the down arrow for a list of diagnostic tools whose drivers have been correctly installed.

**NOTE:** Your specific adapter is only available if it is a compatible device and the software drivers have been installed correctly. If your device is not listed, please re-install the appropriate adapter drivers or contact the manufacturer. Vendor name and specifics should appear on the parts label of the adapter or its documentation.
Protocol

Click the down arrow for the protocol choices.

![Adapter Selection](image)

**NOTE:** Changing protocols during the use of TOOLBOX™ 12 software requires an ignition or power cycle. This is required to reset the hardware and establish communications.

Adapter

Click the down arrow for the adapter choices.

Once the correct settings have been selected, click OK to accept and close the Adapter Selection window.
NOTE: Some vendors may have multiple adapters and choice selections. Please refer to your specific hardware manufacturer’s manual to determine specific adapter type and capabilities.
Configure PLC Diagnostic Adapter in TOOLBOX™ PLC

Select “System Setup” then “Adapter Selection” from the main menu.

The Adapter Selection menus provide the means to select and configure the diagnostic adapter to be used. Please verify you have the latest software drivers and firmware for your specific diagnostic tool. Drivers and firmware updates are available from your hardware manufacturer’s website or by calling them directly. To configure a diagnostic adapter, select the Utilities icon to open the Utilities Menu.
Vendor

Click the down arrow for a list of diagnostic tools whose drivers have been correctly installed.

NOTE: Your specific adapter is only available if it is a compatible device and the software drivers have been installed correctly. If your device is not listed, please re-install the appropriate adapter drivers or contact the manufacturer. Vendor name and specifics should appear on the parts label of the adapter or its documentation.
Protocol

Click the down arrow for the protocol choices.

NOTE: Changing protocols during the use of TOOLBOX™ 12 software requires an ignition or power cycle. This is required to reset the hardware and establish communications.

Adapter

Click the down arrow for the adapter choices.

Once the correct settings have been selected, click OK to accept and close the Adapter Selection window.
NOTE: If using Nexiq diagnostic adapter, use J1708 Protocol, and use PLC Adapter settings.

NOTE: Some vendors may have multiple adapters and choice selections. Please refer to your specific hardware manufacturer’s manual to determine specific adapter type and capabilities.
Select “System Setup” from the J1708/PLC main menu, and then select “Language”. The default setting is English. Select the desired language and press OK to accept the selection.

Click on the appropriate WABCO ECU to select an ECU for diagnostics. You can also click “Select ECU” menu under “System Setup”.

Select ECU for Diagnostics
NOTE: TOOLBOX™ diagnostic software is only operational with WABCO vehicle products.

Help

Contact WABCO North America Customer Care at 855-228-3203 or visit our website: wabco-na.com.