



MANUAL

Textron Motors Diagnostic Tool

This manual is valid for the following Textron Motors Diagnostic Tool:

- 105017

TD105017_HB
Rev F
16.12.2015
en_English



Read the manual before performing the task on the engine. Pay particular attention to the safety messages.

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1 About this document

1.1 Meaning of the signal words

1 About this document

This manual was designed to help you use the Textron Motors Diagnostic Tool safely and reliably.

Observe the following information:

- Read the manual before you begin working.
- Some figures in this manual are general illustrations. Depending on the operating system used there may be variances.
- Some features require special knowledge and must be performed by a workshop authorized by Textron Motors or the product manufacturer.

1.1 Meaning of the signal words

Item	Meaning
Information	The signal word Information indicates specific features and recommendations.


2 Safety

All tasks with the Textron Motors Diagnostic Tool must be performed by appropriately trained personnel.

Observe all generally applicable laws and regulations in addition to the information in this manual:

- accident prevention
- environmental protection
- handling of hazardous materials
- personal safety equipment
- traffic laws

2.1 Meaning of the safety alert symbol and signal words

Item	Meaning
	The safety alert symbol draws your attention to possible dangers.
WARNING	The signal word WARNING indicates a potentially dangerous situation that may lead to a serious or fatal injury.

2.2 Important safety messages

Operate the engine	<p>Operating the engine during diagnostic works poses a safety risk to personnel.</p> <p>Engines requiring diagnostic work may not be in expected condition.</p> <ul style="list-style-type: none">▶ All tasks with the Textron Motors Diagnostic Tool must be performed by appropriately trained personnel.▶ Operate the engine during the diagnostic work only if it is absolutely necessary.▶ Avoid distractions from the notebook while operating an engine.▶ Properly secure the notebook to prevent falling.
Protective equipment	<p>Missing protective equipment poses a safety risk to personnel. If you need to operate the motor without protective devices, the engine is not properly secured.</p> <ul style="list-style-type: none">▶ Secure or pay special attention to the non-protected area.▶ Do not allow access by unauthorized persons.▶ Wear hearing protection.▶ Attach all protective equipment after completing the tasks.
Hot engine components	<p>Engine components become extremely hot during operation.</p> <ul style="list-style-type: none">▶ Do not touch any engine components during operation.▶ Switch off the engine and wait until the components have cooled before handling.
Engine exhaust gases	<p>Engine exhaust gases contain carbon monoxide (CO). Inhalation of carbon monoxide can deprive the body of oxygen and result in organ damage or even death by asphyxiation.</p> <ul style="list-style-type: none">▶ Never operate the engine in enclosed spaces.

3 Description

3.1 Intended use

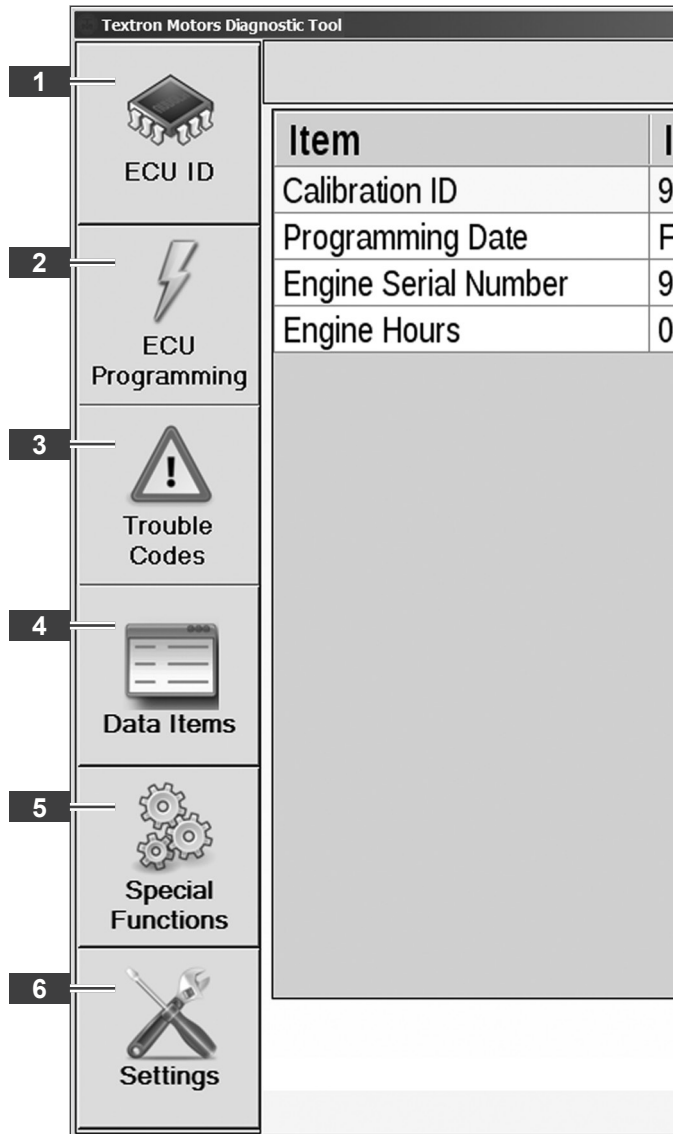
The Textron Motors Diagnostic Tool has been designed for fault diagnostics and service tasks for Textron Motors engines using a Synerject engine management system.

The Textron Motors Diagnostic Tool was not designed or intended for any other use.

3.2 Features

All features are accessible from the toolbar:

- Engine control unit identification (ECU ID) **1**
Display identification data of the connected engine control unit.
- Engine control unit programming (ECU Programming) **2**.
Only available for authorized workshops: Update the engine control unit calibration.
- Trouble Codes **3**.
Display of saved trouble codes.
- Data items **4**.
Display and record engine measurement data.
- Special functions **5**.
Change and preset the engine control unit type.
Only available for authorized workshops: Clear the service counter to reset service light and clear adaption values.
- Settings **6**.
The queries in the settings are not part of the engine diagnostic.
If necessary, you will be asked to generate specific queries.



3 Description

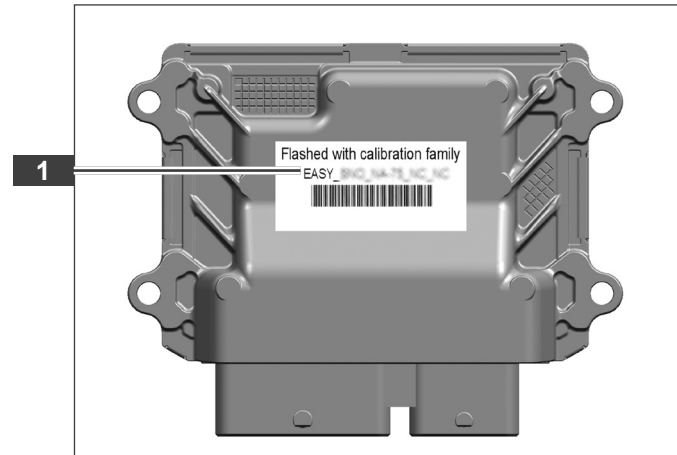
3.3 Identification Synerject engine management system

3.3 Identification Synerject engine management system and engine control unit type

Information! Depending on the engine model, the Synerject engine management system will be delivered with two different engine control unit types. „Easy-U“ and „M3D“. Before operating the Textron Motors Diagnostic Tool, you must check which engine control unit type is used.

On the engine control unit is a label.

With a Synerject engine management system the description of the calibration begins with "EASY" **1** or "M3D".



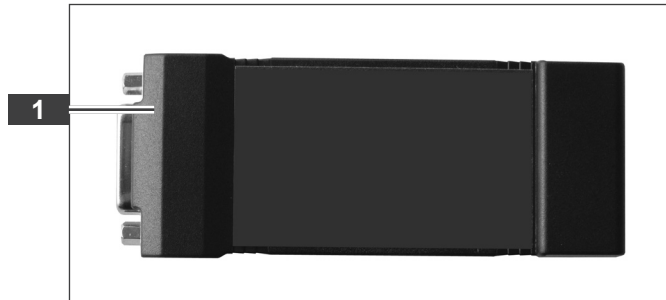
Information about the used engine management system **2** and the engine control unit type is available in the service manual under **Technical specifications**.

Service manuals are available for download at www.textronmotors.com.

3.7 Technical specifications	
Type	4-stroke gasoline engine, parallel twin with ball camshaft (SOHC)
Displacement	548 cm ³
Number of cylinders	2
Bore x stroke	88 x 68 mm (3.5 x 2.7 in)
Compression ratio	11.5 : 1
Engine power	62 kW (71 PS) @ 7100 – 7200min ⁻¹ (rpm) ECE
Speed limit	7600 min ⁻¹ (rpm)
Idle speed	1250 min ⁻¹ (rpm)
Carburation	sequential multipoint intake manifold
Lubrication system	dry sump
Cooling system	forced coolant circuit
Engine management system	Synerject Easy-U

3.4 Scope of supply

- Diagnostic interface module **1**



- Diagnostic cable **2**



- USB cable **3**



Data on USB flash drive **4**:

- Textron Motors Diagnostic Software (english)
- Manual (german and english)



3 Description

3.5 System requirements

3.5 System requirements

- Notebook **1** with Windows XP Servicepack 3, Windows Vista Servicepack 1 or higher, Windows 7, Windows 7 Servicepack 1, Windows 8
- .NET Framework 4
- minimum Pentium 1,3 GHz
- minimum 1 GB RAM
- minimum disc space x86 – 850 MB or x64 – 2 GB
- Internet connection
- minimum one available USB port



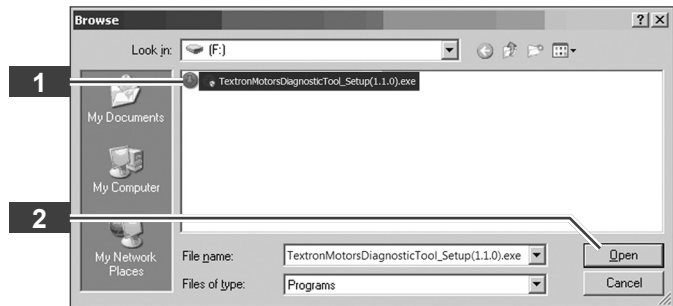
4 Textron Motors Diagnostic Software

4.1 Installing Textron Motors Diagnostic Software

Depending on the used operating system, the description of the installation can vary. Keep therefore the manual for the notebook ready.

Before installing the Textron Motors Diagnostic Software you need the free Microsoft software .NET Framework 4. When .NET Framework 4 is not installed on your notebook, at the beginning you will required to install the software. When you have agreed the web-installer starts automatically. Connect the notebook to the Internet. Depending on your Internet connection, downloading the software can take some time. Visit www.microsoft.com for more information.

- ▶ Start the notebook as an administrator.
- ▶ Select the file "TextronMotorsDiagnosticTool*.exe" **1** on the usb flash drive.
- ▶ Click on "Open" **2**.



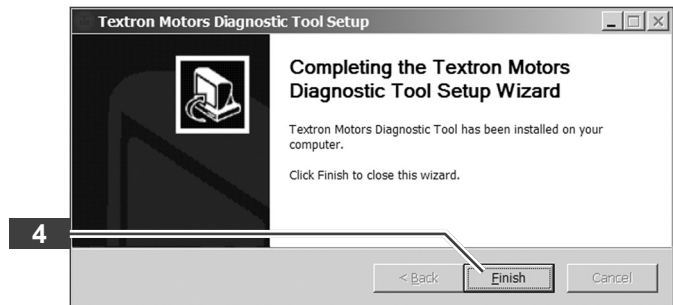
The Installation is started.

- ▶ Click on "Next" **3**.
- ▶ Follow the installation instructions.



The Textron Motors Diagnostic Software is fully installed.

- ▶ Click on "Finish" **4**.

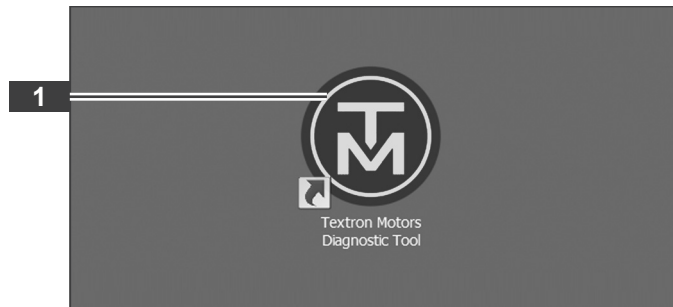


4.2 Update Textron Motors Diagnostic Software

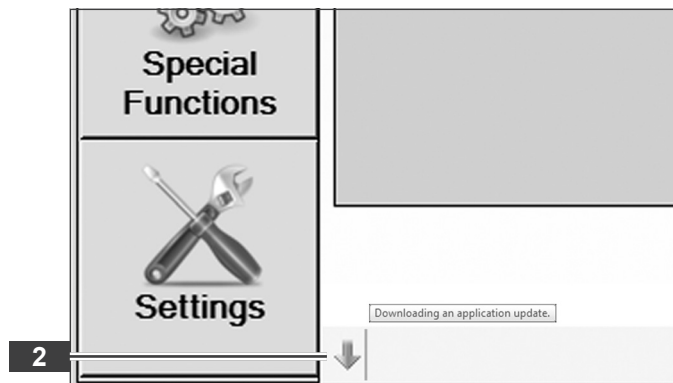
Information! The Textron Motors Diagnostic Software, software updates and the current manuals are available on the website textronmotors.diagsys.com.

For software update you exclusively require a diagnostic interface module and an internet connection.

- ▶ Start the notebook as an administrator.
 - ▶ Connect the notebook to the Internet.
 - ▶ Start the Textron Motors Diagnostic Software by clicking the Textron Motors Diagnostic Tool icon **1**.
- or
- ▶ Start the Textron Motors Diagnostic Software by clicking „Start“ – „All Programs“ – „Textron Motors Diagnostic Tool“.

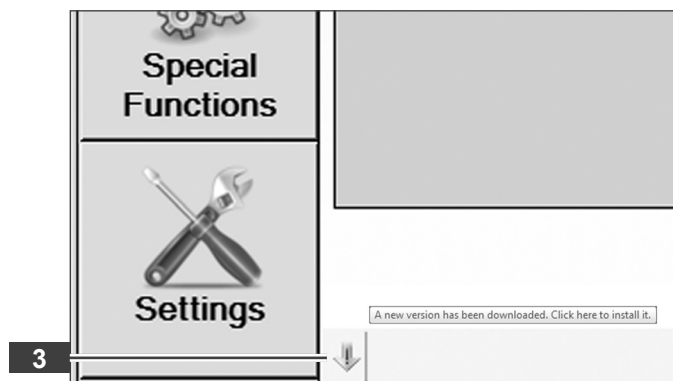


When the green arrow **2** „Downloading application to update“ is visible, a software update is available. The software update will download automatically.

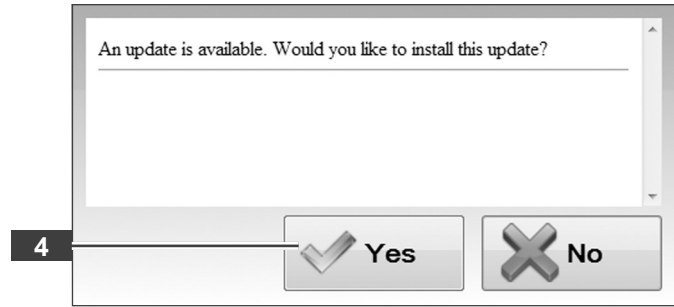


When the arrow **3** is yellow, software download is completed.

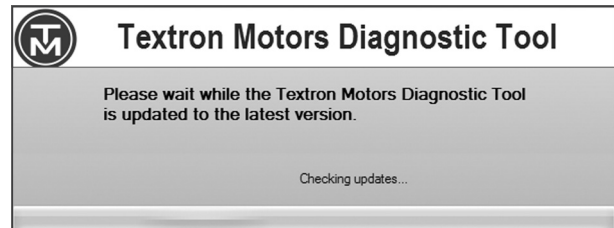
- ▶ Click on the arrow.



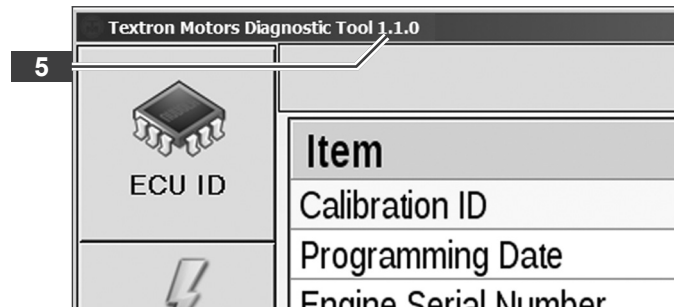
► Click on „Yes“ **4**.



The software update is started.



The software update is fully installed.
The current software version **5** is shown.



5 Using Textron Motors Diagnostic Tool

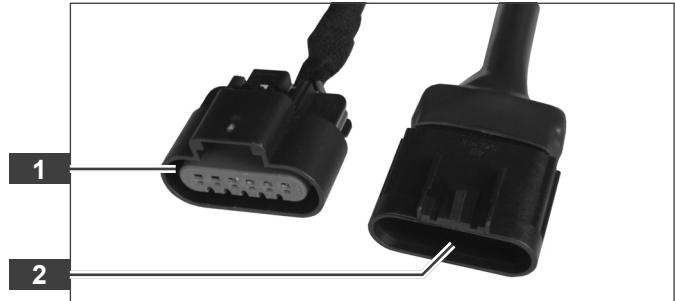
5.1 Connecting notebook to the engine

5 Using Textron Motors Diagnostic Tool

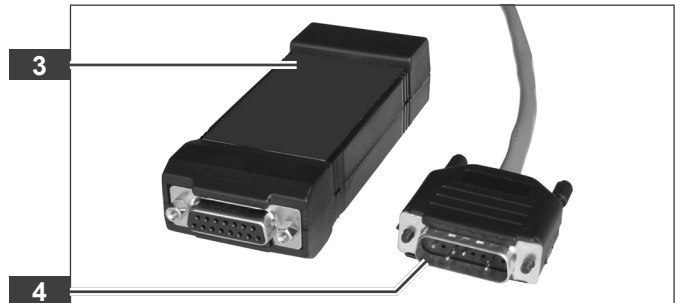
5.1 Connecting notebook to the engine

The engine diagnostic plug is located on the engine wire harness. (See the manufacturer's documentation.)

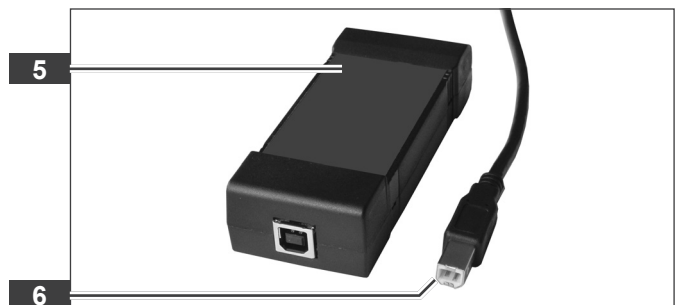
- ▶ Plug the diagnostic cable **2** to the engine diagnostic plug **1**.



- ▶ Plug the diagnostic cable **4** to the diagnostic interface module **3**.



- ▶ Plug the USB cable **6** to the diagnostic interface module **5**.



- ▶ Plug the USB cable **8** to the notebook **7**.

The USB drivers are automatically installed the first time the diagnostic interface module is connected to the notebook.

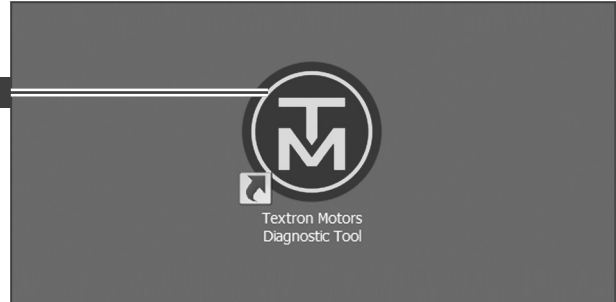


5.2 Starting Textron Motors Diagnostic Software

- ▶ Connect the notebook to the engine (See chapter 5.1 Connecting notebook to the engine.)
- ▶ Start the Textron Motors Diagnostic Software by clicking the Textron Motors Diagnostic Tool icon **1**.

or

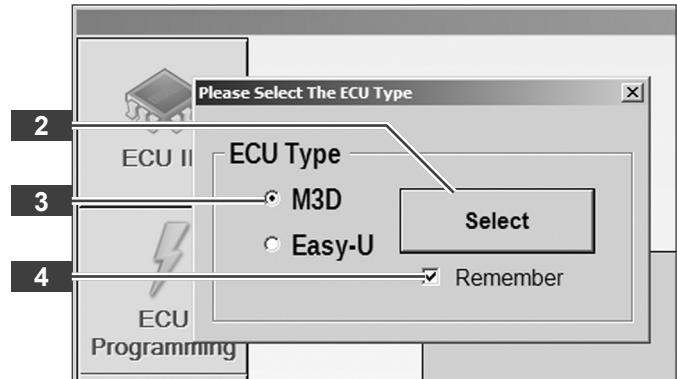
- ▶ Start the Textron Motors Diagnostic Software by clicking "Start" – "All Programs" – "Textron Motors Diagnostic Tool" – "Textron Motors Diagnostic Tool" .



- ▶ Select the connected engine control unit type **3**. (See chapter 3.3 Identification Synerject engine management system and engine control unit type.)

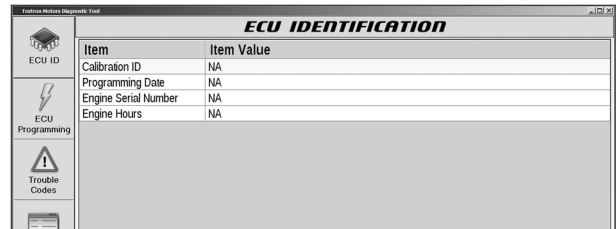
If you activate the field „Remember“ **4**, the presetting remains. You will be no longer requested to select an engine control unit type during program start. Observe chapter 5.7.2 **Changing and presetting engine control unit type**.

- ▶ Click on „Select“ **2**.



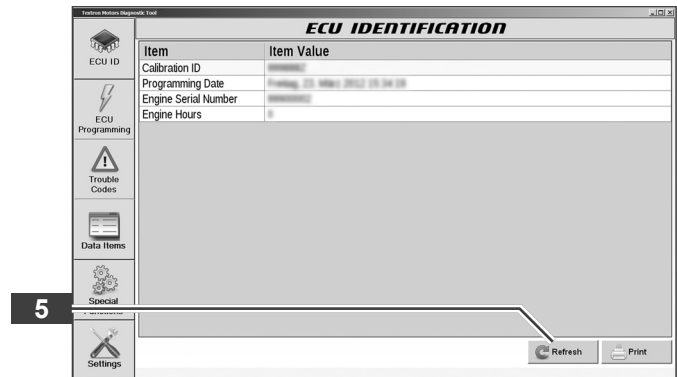
The screen ECU IDENTIFICATION is shown.

- ▶ Turn ignition on.



The engine control unit identification data is shown. The engine control unit is connected to the notebook.

- ▶ If the engine control unit identification data is not shown automatically, click on "Refresh" **2**.



5 Using Textron Motors Diagnostic Tool

5.3 Screen engine control unit identification (ECU ID)

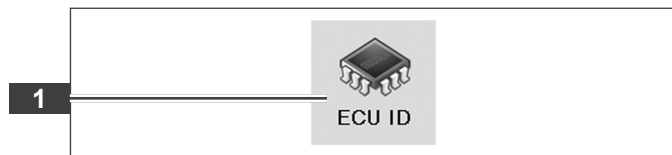
5.3 Screen engine control unit identification (ECU ID)

On the screen ECU IDENTIFICATION the engine control unit identification data is shown. The engine control unit identification data and the saved trouble codes can be printed.

5.3.1 Displaying engine control unit identification data

The notebook is connected to the engine and the ignition is on.

- ▶ Click on "ECU ID" **1**.



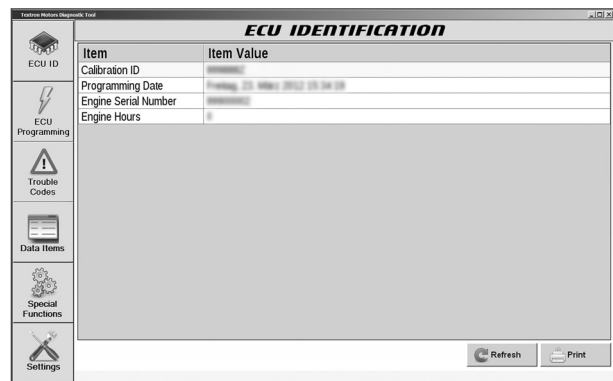
The following engine control unit identification data are shown:

Calibration ID Number of the current calibration.

Programming Date Date the calibration was programmed.

Engine Serial Number Serial number of the engine.

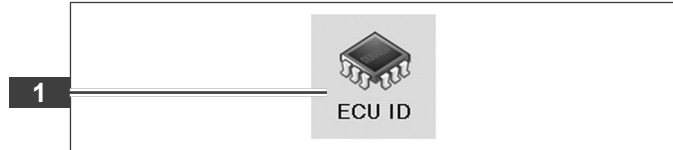
Engine Hours Hours of operation of the engine.



5.3.2 Printing engine control unit identification data

The notebook is connected to the engine and the ignition is on.

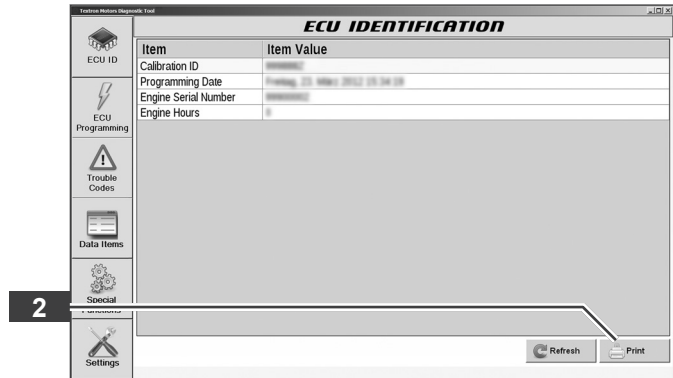
- ▶ Click on "ECU ID" **1**.



The engine control unit identification data is shown.

- ▶ Click on "Print" **2**.

The engine control unit identification data and the saved trouble codes are printed.



5.4 Screen engine control unit programming (ECU Programming)

On the screen ECU PROGRAMMING you can update the existing engine control unit calibration. Textron Motors recommends updating the calibration at each presentation of the engine in the workshop.

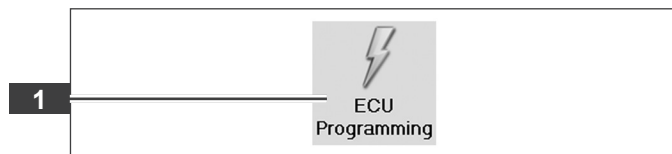
This feature is only available for authorized workshops.

Information! You can only update the existing engine control unit calibration. Programming a calibration for another engine model is not possible.

5.4.1 Updating engine control unit calibration

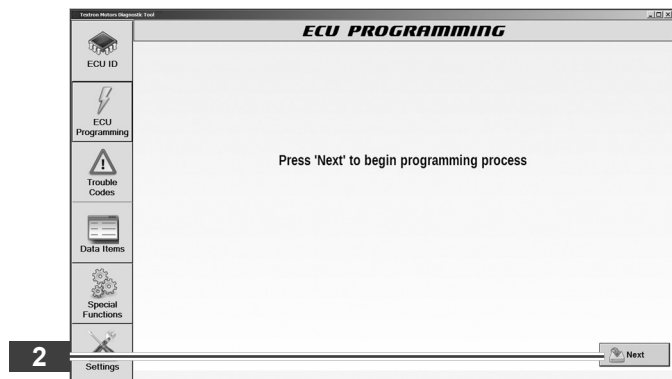
The notebook is connected to the engine and the ignition is on.

- ▶ Click on "ECU Programming" **1**.

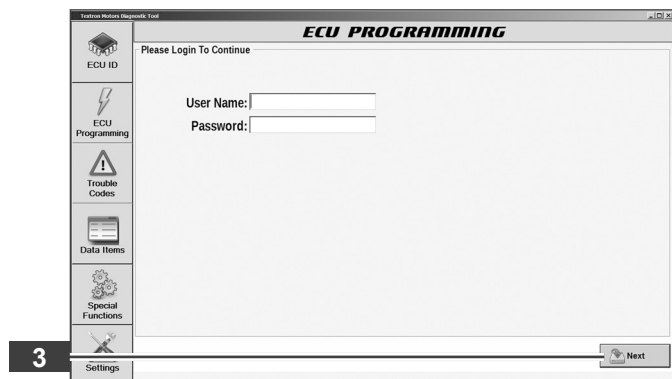


The battery is fully charged and not connected to a battery charger.

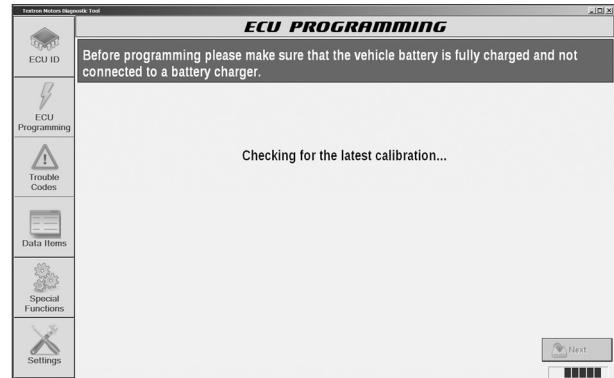
- ▶ Connect the notebook to the Internet.
- ▶ Click on "Next" **2**.



- ▶ Enter your access data. Note the upper and lower case.
- ▶ Click on "Next" **3**.

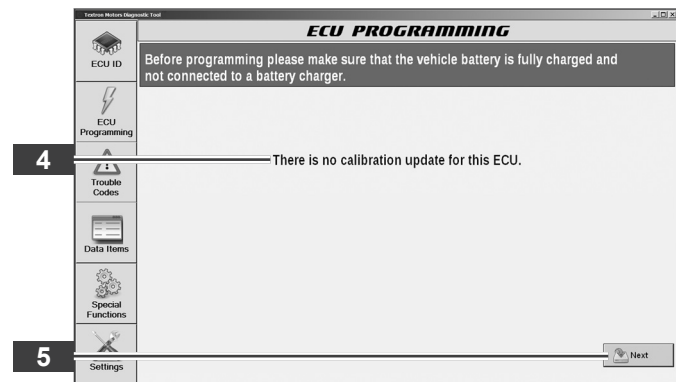


The Textron Motors Diagnostic Tool checks whether a new calibration is available.



If the message "There is no calibration update for this ECU" **4** appears, the engine control unit is up to date.

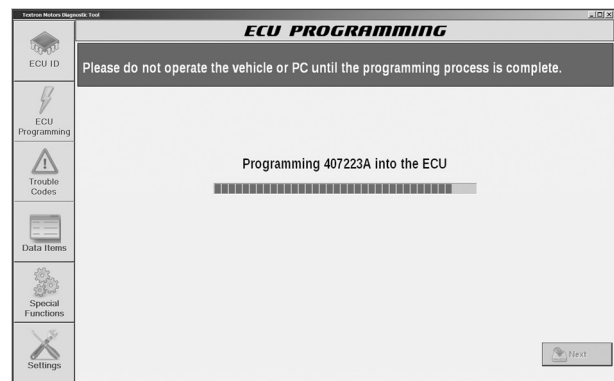
- ▶ Click on "Next" **5**.



or

The programming is started.

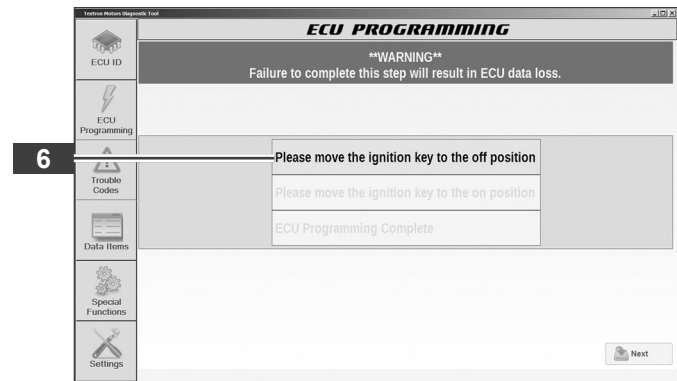
Depending on the download speed the programming takes only 1 – 2 minutes. Do not operate the engine and the notebook until the programming process is complete.



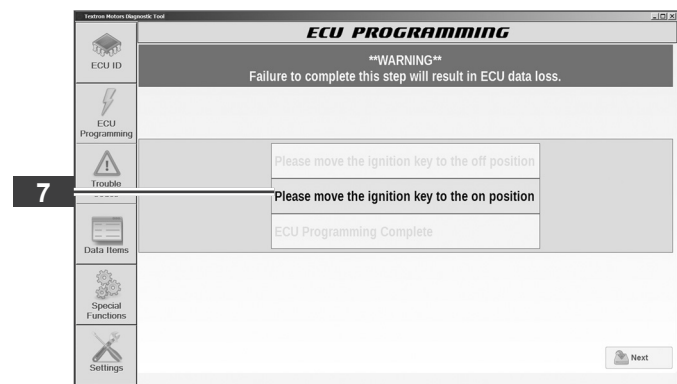
5 Using Textron Motors Diagnostic Tool

5.4 Screen engine control unit programming (ECU Programming)

- ▶ If the message "Please move the ignition key to the off position" **6** appears, turn the ignition off.
- ▶ Wait until the next message appears.

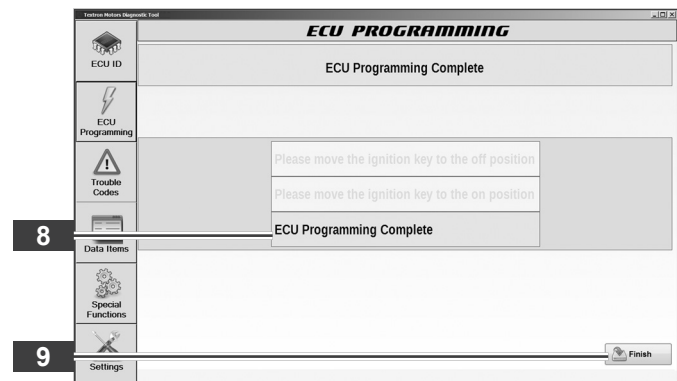


- ▶ If the message "Please move the ignition key to the on position" **7** appears, turn the ignition on.
- ▶ Wait until the next message appears.



If the message "ECU Programming complete" **8** appears, the calibration update is successful.

- ▶ Click on "Finish" **9**.



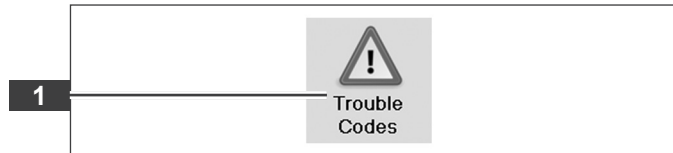
5.5 Screen trouble codes

On the screen TROUBLE CODES all saved trouble codes are shown.

5.5.1 Displaying trouble codes

The notebook is connected to the engine and the ignition is on.

- ▶ Click on "Trouble Codes" **1**.

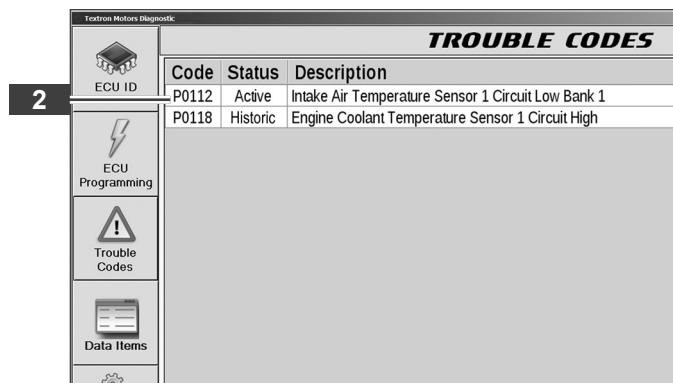


All trouble codes **2** are shown.

The trouble codes are differentiated by status:

Active The fault is currently active.

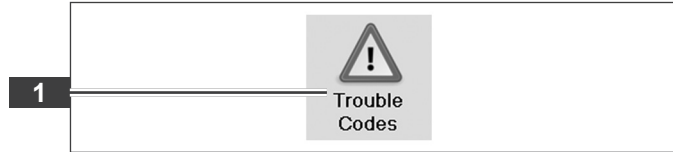
Historic The fault occurred in in the past, but is no longer active.



5.5.2 Clearing historic trouble codes

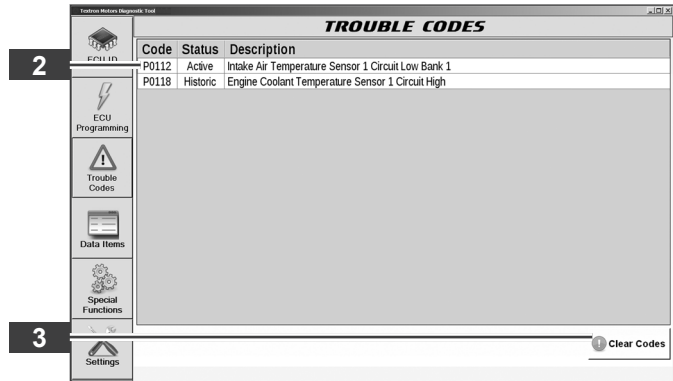
The notebook is connected to the engine and the ignition is on.

- ▶ Click on "Trouble Codes" **1**.



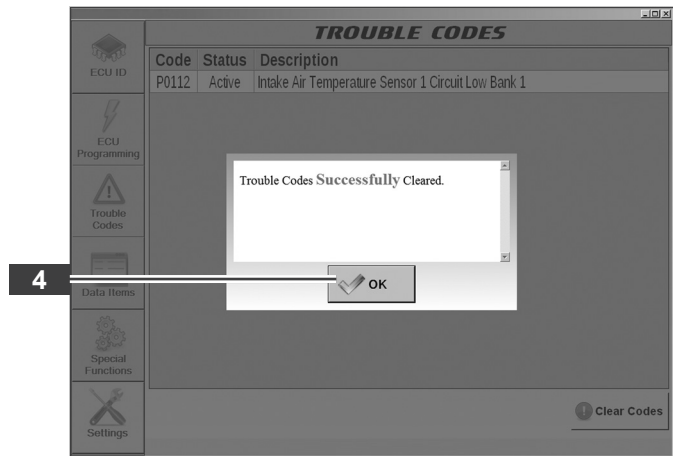
All trouble codes **2** are shown.

- ▶ Click on "Clear Codes" **3**.



All historic trouble codes are cleared.

- ▶ Click on "OK" **4**.



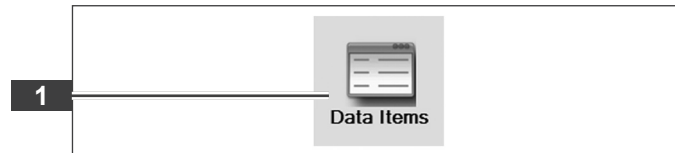
5.6 Screen data items

On the screen DATA ITEMS, engine measurement data can be screened or recorded. The last 5 minutes of any displayed engine measurement data will be automatically temporarily stored. The Textron Motors Diagnostic Software can be used for play back and to export the stored data into a WDR-file.

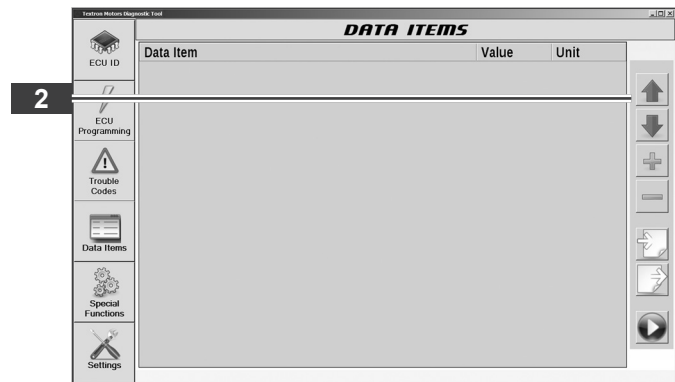
5.6.1 Displaying and recording engine measurement data

The notebook is connected to the engine and the ignition is on.

- ▶ Click on "Data Items" **1**.

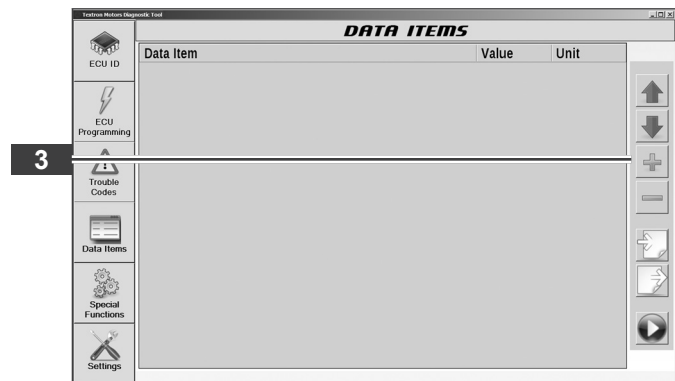


The toolbar **2** is shown.



Selecting data items

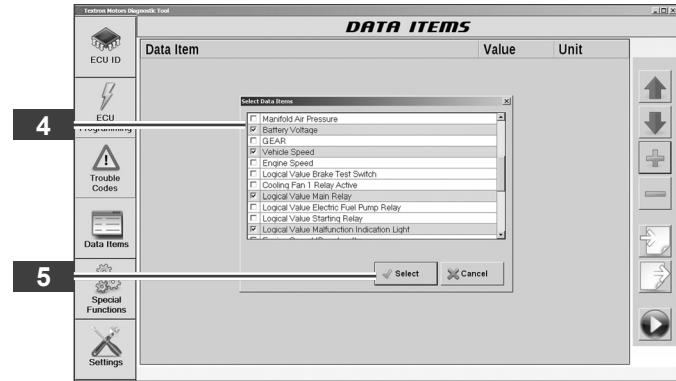
- ▶ Click on "+" **3**.
- or
- ▶ Load a data item group. (See chapter 5.6.3 Loading data item group.)



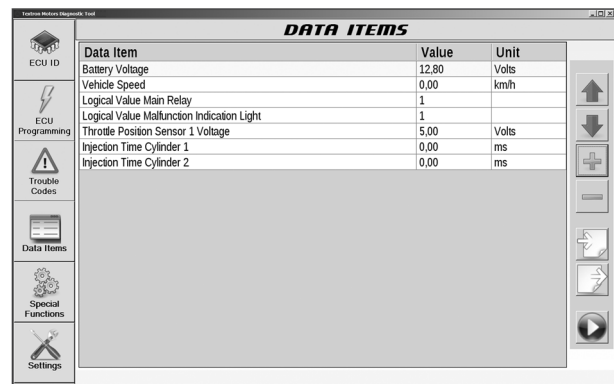
5 Using Textron Motors Diagnostic Tool

5.6 Screen data items

- ▶ Select the desired data items **4**.
- ▶ Click on "Select" **5**.

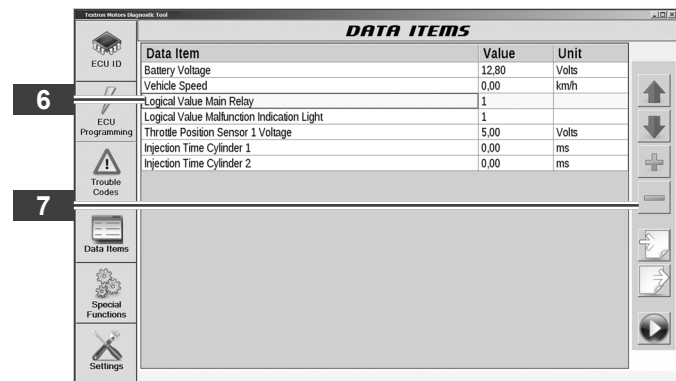


The selected data items are shown.

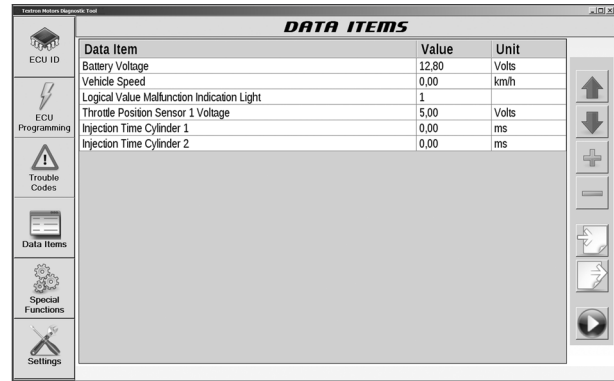


Removing data items

- ▶ Click on a data item **6**.
- ▶ Click on "-" **7**.



The data item is removed from the screen.



Rearranging of data items

- ▶ Click on a data item and move the data item in the view using the arrow keys **8**.

8

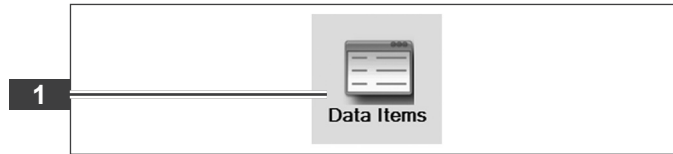


5.6.2 Saving an own data item group

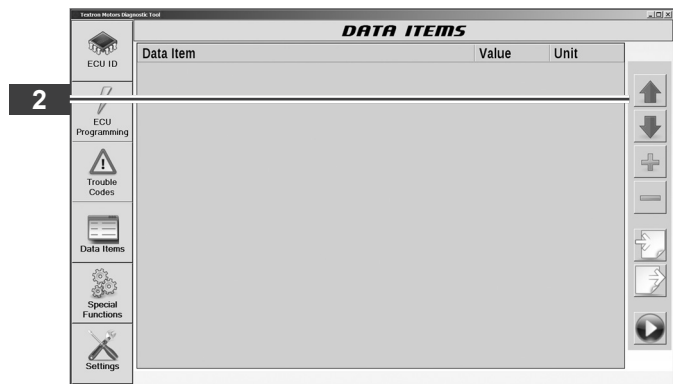
You can save selected data items as a data item group. This data item group can be quickly accessed for future use.

The notebook is connected to the engine and the ignition is on.

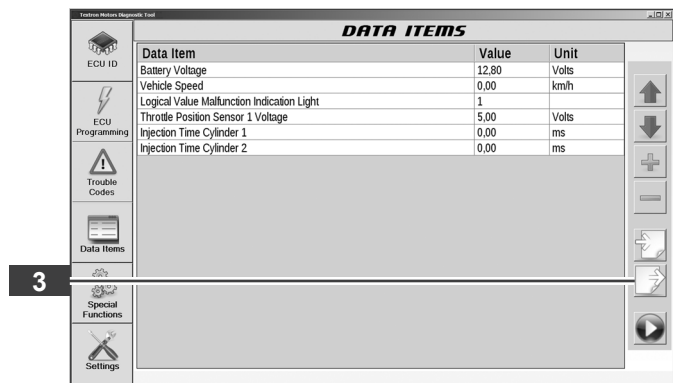
- ▶ Click on "Data Items" **1**.



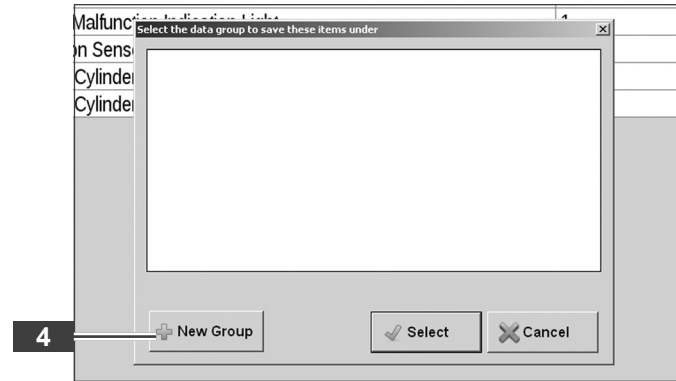
The toolbar **2** is shown.



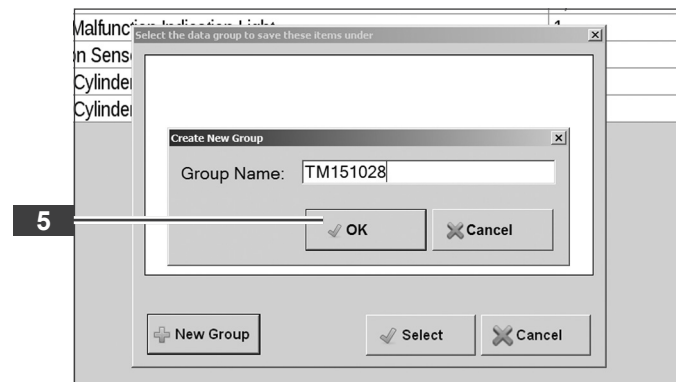
- ▶ Select several data items that you want to save as a data item group. (See chapter 5.6.1 Displaying and recording engine measurement data.)
- ▶ Click on "Save Data Item Group" **3**.



- ▶ Click on "New Group" **4**.

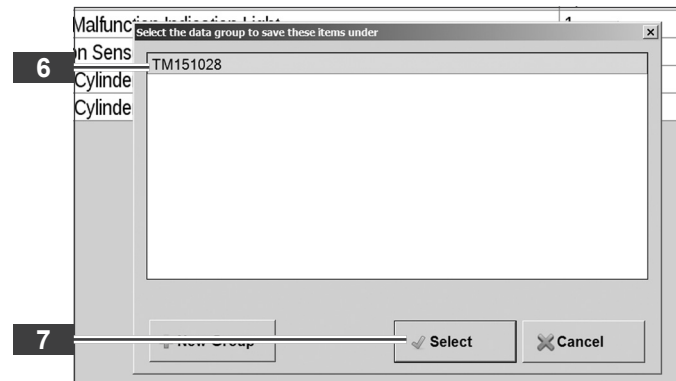


- ▶ Enter a description of the data item group.
- ▶ Click on "OK" **5**.



The new data item group **6** is saved.

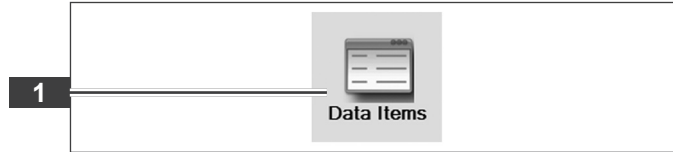
- ▶ Click on "Select" **7**.



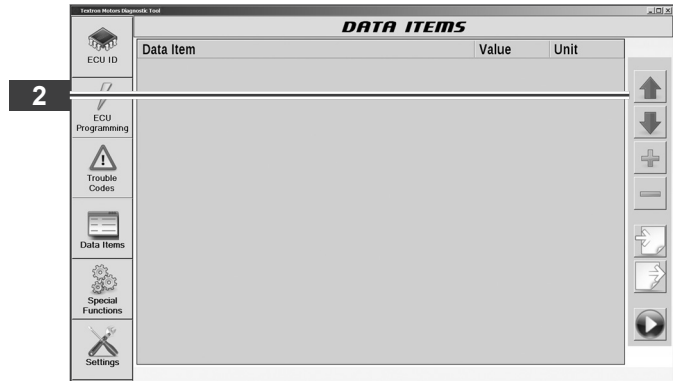
5.6.3 Loading data item group

The notebook is connected to the engine and the ignition is on.

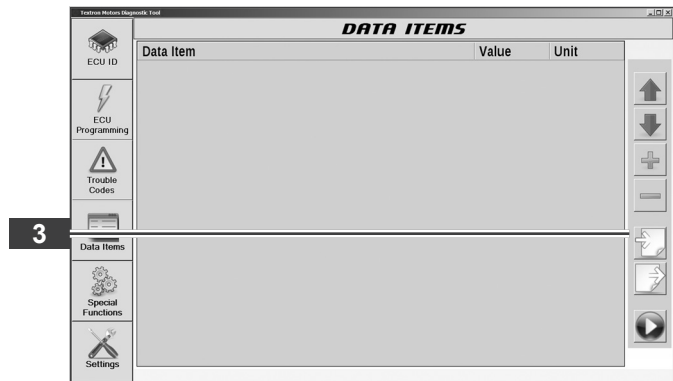
- ▶ Click on "Data Items" **1**.



The toolbar **2** is shown.

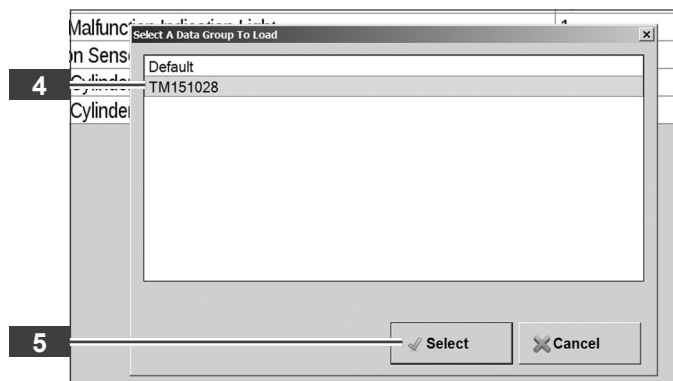


- ▶ Click on "Load Data Item Group" **3**.

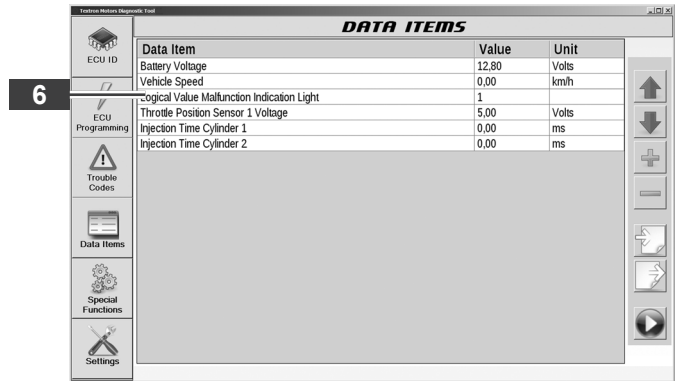


In the data item group „Default“, all available data items are shown.

- ▶ Click on a data item group **4**.
- ▶ Click on "Select" **5**.



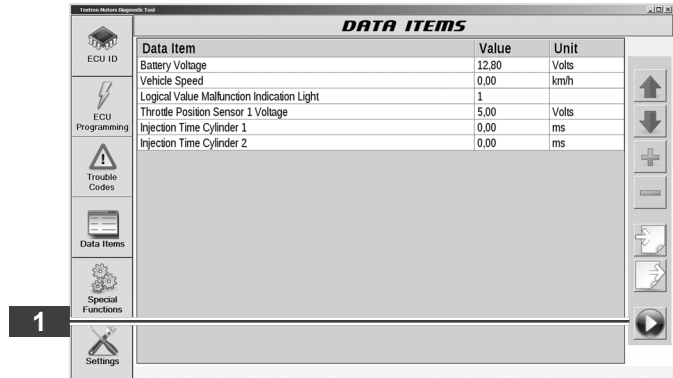
The data item group **6** is shown.



5.6.4 Playback and export a recording

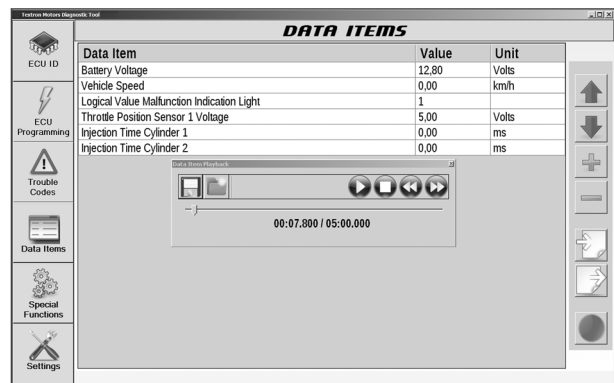
Engine measurement data is recorded.

- ▶ Click on "Playback Data Items" **1**.



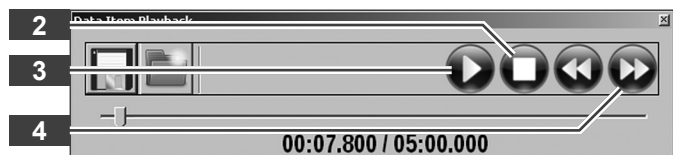
The last 5 minutes of recording will be played back.

During playback, engine measurement data cannot be recorded.



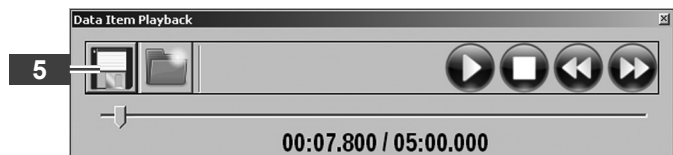
Control functions of the play back:

- Start playback **3**.
- Stop playback **2**.
- 30 seconds forward **4**.
- 30 seconds backward.

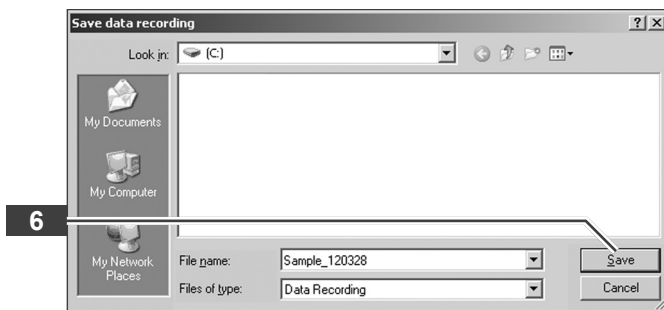


Export the recording as WDR-file

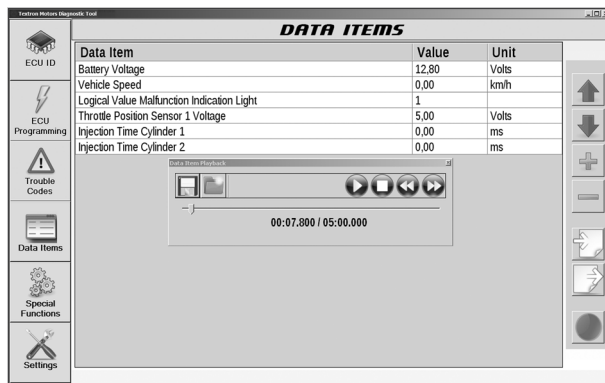
- ▶ Click on "Save Current Recording" **5**.



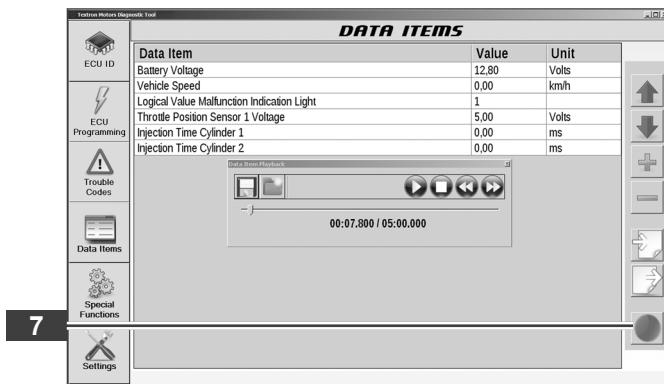
- ▶ Select a folder.
- ▶ Enter a file name.
- ▶ Click on "Save" **6**.



The file is saved.



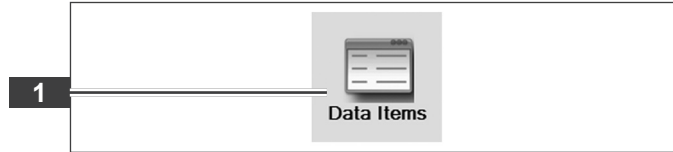
- ▶ Click on "Return to record mode" **7**.
The playback is finished.



5.6.5 Playback a WDR-file

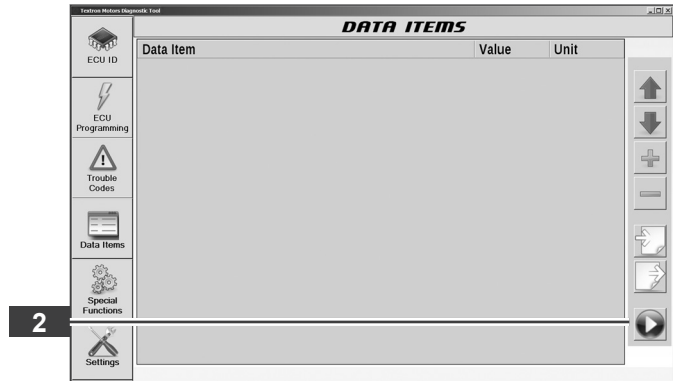
The diagnostic interface module is connected to the notebook.

- ▶ Click on "Data Items" **1**.

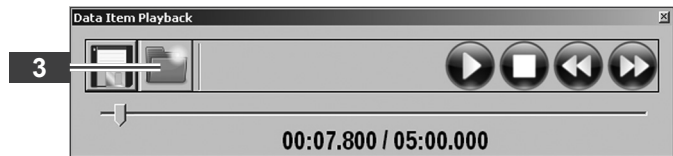


The toolbar is shown.

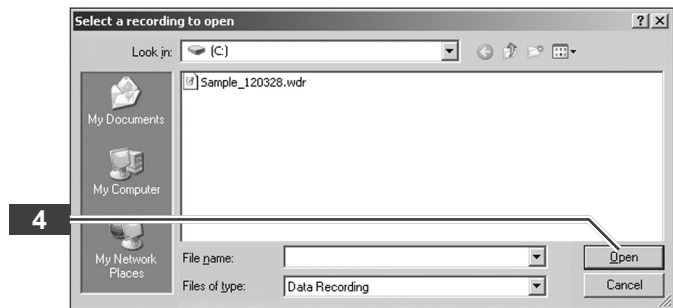
- ▶ Click on "Playback Data Items" **2**.



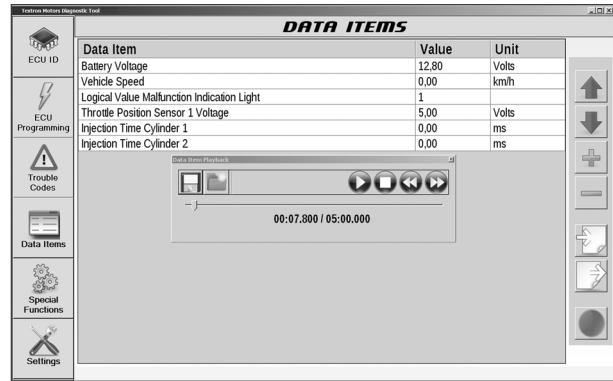
- ▶ Click on "Open Recording" **3**.



- ▶ Select a folder.
- ▶ Select a file.
- ▶ Click on "Open" **4**.

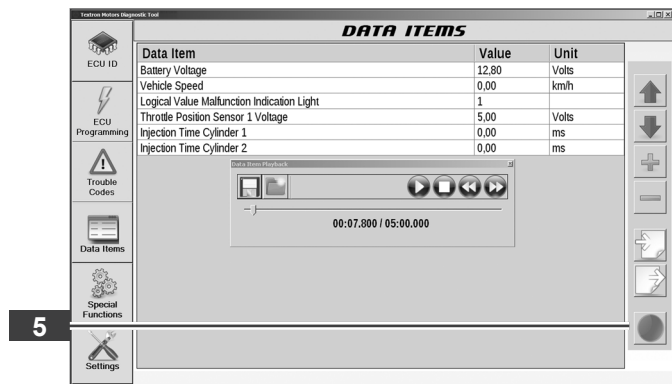


The recording is played back.



- ▶ Click on "Return to record mode" **5**.

The playback is finished.



5.7 Screen special functions

5.7.1 Clearing service counter for service light

The calibration software of the engine control unit supports the feature of a service light. Read the product manufacturer’s documentation for more information.

This feature is only available for authorized workshops.



WARNING

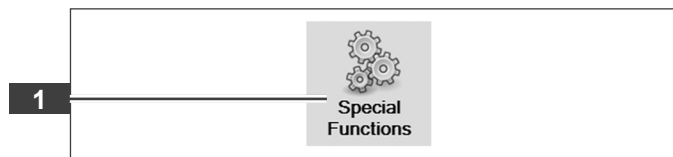
Neglecting service tasks pose a safety risk to personnel.

In order to keep the engine in a safe operating condition, regular servicing is essential.

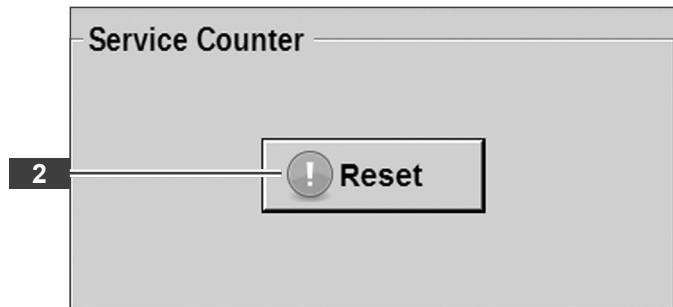
- ▶ Clear the service light only if all necessary service tasks have been performed.

The notebook is connected to the engine and the ignition is on.

- ▶ Click on "Special Functions" **1**.



- ▶ Click on "Reset" **2**.

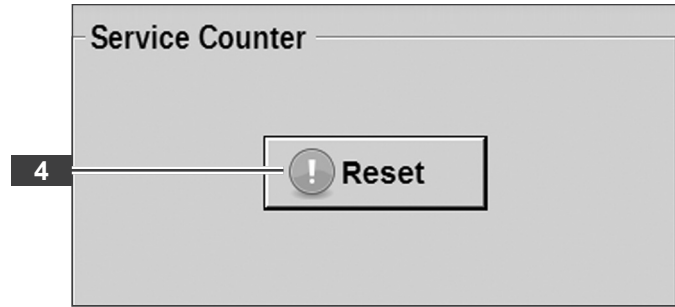


- ▶ Enter your access data. Note the upper and lower case.

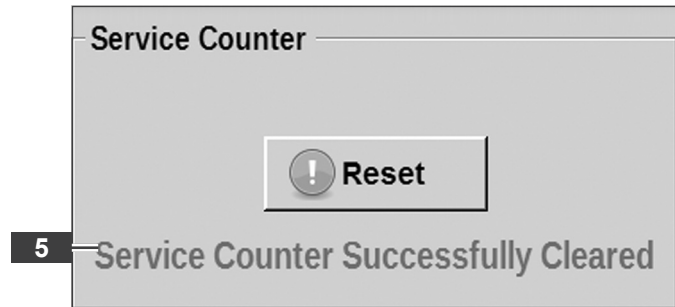
- ▶ Click on "Login" **3**.



- ▶ Click on "Reset" **4**.



If the message "Service Counter Successfully Cleared" **5** appears, the service counter for the service light has been reset.



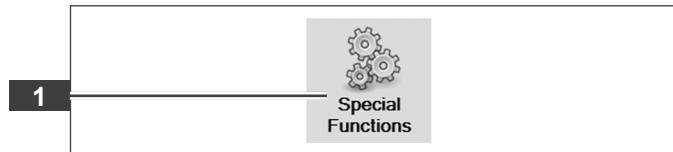
5.7.2 Clearing adaption values

After repairs it may required that adaptation values in the memory must be resetted.

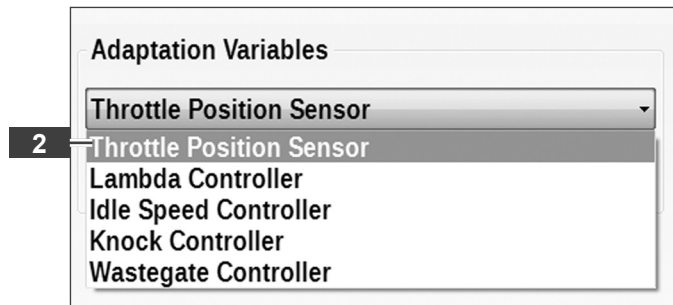
This feature is only available for authorized workshops.

The notebook is connected to the engine and the ignition is on.

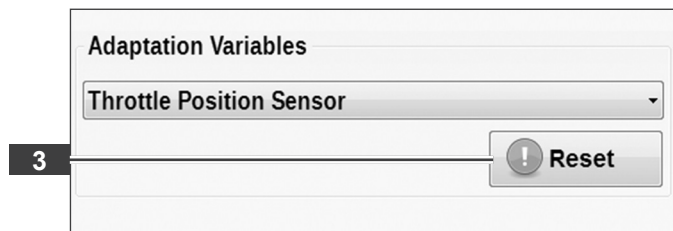
- ▶ Click on "Special Functions" **1**.



- ▶ Click on the drop-down menu.
- ▶ Select an adaption variable **2**.



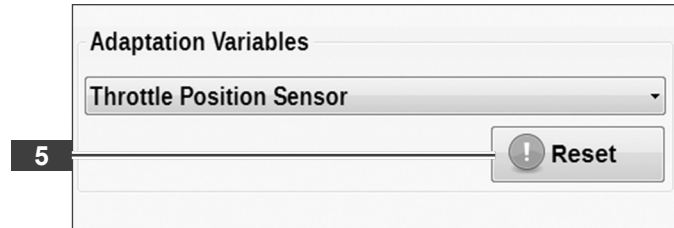
- ▶ Click on "Reset" **3**.



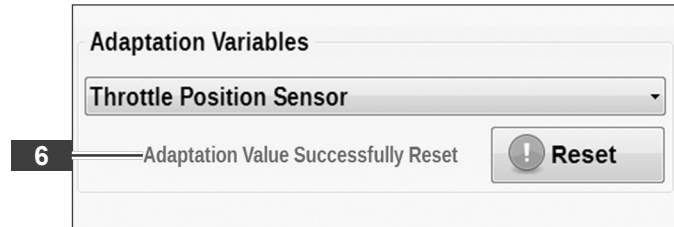
- ▶ Enter your access data. Note the upper and lower case.
- ▶ Click on "Login" **4**.



- ▶ Click on "Reset" **5**.



If the message „Adaption Value Successfully Reset“ **6** appears, the adaption value in memory has been reset.



5.7.3 Changing and presetting engine control unit type

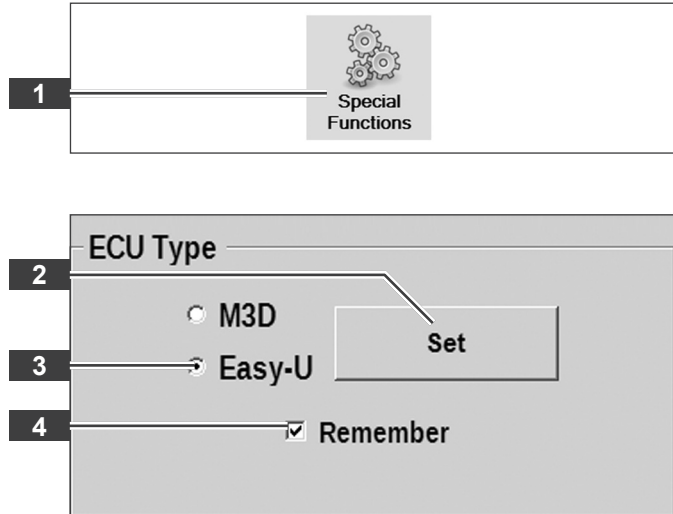
You can change the selected engine control unit type and define as presetting.

The notebook is connected to the engine and the ignition is on.

- ▶ Click on "Special Functions" **1**.

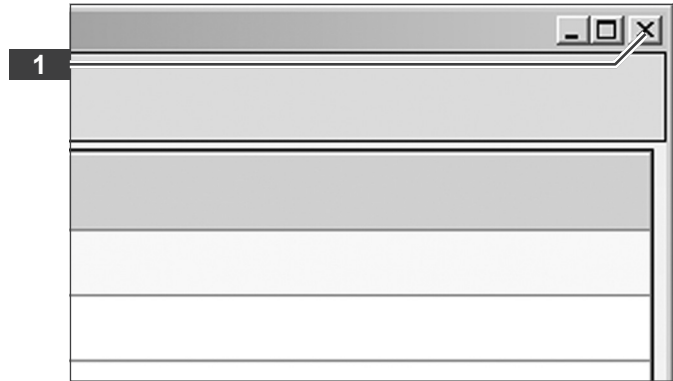
- ▶ Select the desired engine control unit type **3**. (See chapter 3.3 Identification Synerject engine management system and engine control unit type.)
- ▶ When the field „Remember“ **4** is activated, you will be no longer requested to select an engine control unit type during program start.

The diagnostic software will be started for the selected engine control unit type.
- ▶ When the field „Remember“ is not activated, you will be requested to select an engine control unit type during program start.
- ▶ Click on „Set“ **2**.



5.8 Closing Software and disconnecting notebook from the engine

- ▶ Click on the Textron Motors Diagnostic Software "close button" **1**.
The Textron Motors Diagnostic Software is closed.
- ▶ Turn ignition off.

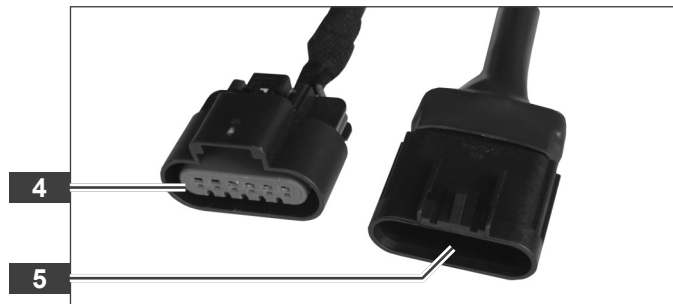


When disconnecting the USB plug always use the feature "Safely remove hardware". Read the notebook's manual for more information. In the list of USB devices the diagnostic interface module is shown as "Textron Motors multilink".

- ▶ Disconnect the USB cable **3** from the notebook **2**.



- ▶ Disconnect the diagnostic cable **5** from the engine diagnostic plug **4**.



6 Troubleshooting and help

The software starts, but the message "Adapter Not Found" is shown

If the message "Adapter Not Found. Please Connect The Adapter" **1** appears, the diagnostic interface module is disconnected from the notebook.

- ▶ Connect the diagnostic interface module to the notebook. (See chapter 5.1 Connecting notebook to the engine.)

If the problem still exists, check the following options:

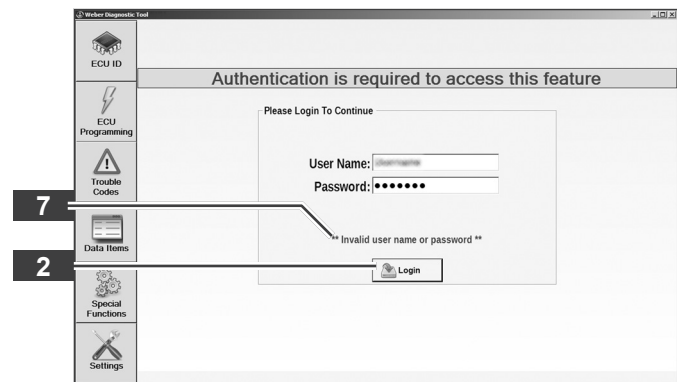
- The USB driver of the diagnostic interface module are not correctly installed.
- ▶ Close the Textron Motors Diagnostic Software and disconnect the USB cable from the notebook.
- ▶ Connect the USB cable again and wait for the USB drivers to install.
- ▶ Start the Textron Motors Diagnostic Software.
- The diagnostic interface module or the USB cable is defective.



The access data are not accepted

If the message "Invalid user name or password" **1** appears, the download server denied your access data.

- ▶ Enter your access data again. Note the upper and lower case.
- ▶ Click on "Login" **2**.



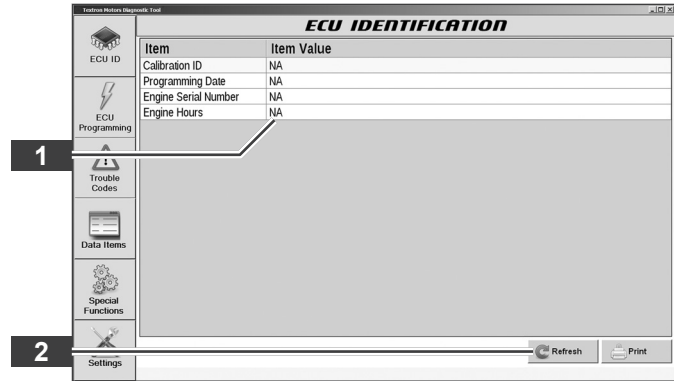
The engine control unit identification data is not shown

If instead of the identification data only "NA" **1** is displayed, the notebook is disconnected from the engine control unit or the programming procedure was interrupted.

- ▶ Turn ignition on and click on „Refresh“ **2**.
or
- ▶ Change the engine control unit type. (See chapter 5.7.2 Changing and presetting engine control unit type.)
or
- ▶ Start the programming procedure again.

If the problem still exists, check the following options:

- The diagnostic cable is disconnected or defective.
- The engine control unit is defective.

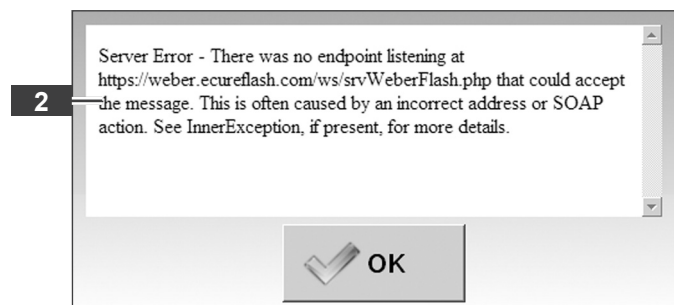
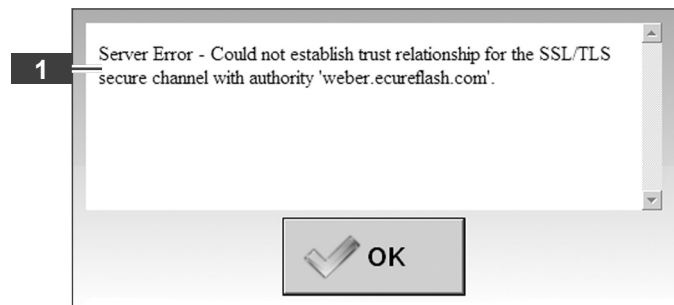


The programming does not start

If the message "Server error - Could not establish..." **1** or "Server error - There was no ..." **2** appears, the notebook can not be connected to the download server.

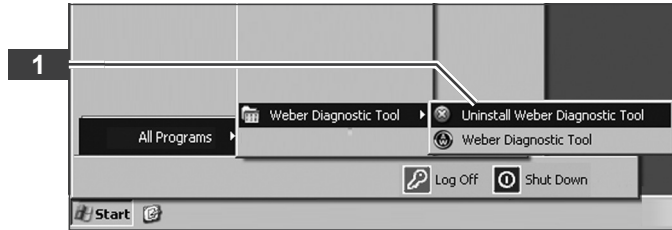
- ▶ Connect the notebook to the Internet.

If the problem still exists, contact your system administrator.

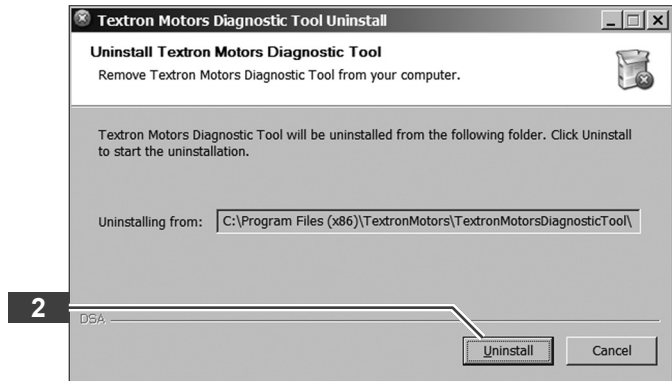


7 Uninstalling Textron Motors Diagnostic Software

- ▶ Start the notebook as an administrator.
- ▶ Start the uninstallation by clicking "Start" – "All Programs" – "Textron Motors Diagnostic Tool" – "Uninstall Textron Motors Diagnostic Tool" – "Uninstall Textron Motors Diagnostic Tool" **1**.

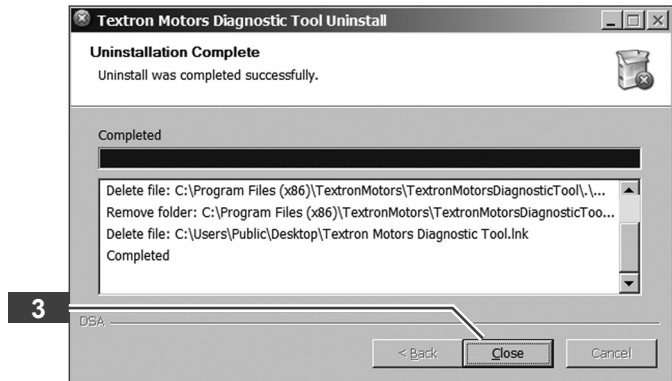


- ▶ Click on "Uninstall" **2**.



The Textron Motors Diagnostic Software is uninstalled.

- ▶ Click on "Close" **3**.



Appendix
Overview of revisions

Revision	Date	Chapter	Description	Note
Rev 1.0	08.08.2012	–	1st edition manual	–
Rev 1.1	04.09.2012	–	2nd edition manual	–
Rev 1.2	11.09.2012	4.1 Update Weber Diagnostic Software	New feature.	–
Rev 1.3	12.02.2013	5.2 Starting Weber Diagnostic Software	When the program is starting, the engine control unit type must be selected.	–
Rev 1.3	12.02.2013	5.7.3 Changing and presetting engine control unit type	New chapter.	–
Rev 1.3	12.02.2013	5.7.1 Clearing service counter for service light	Access data must be entered.	–
Rev 1.4	31.01.2014	5.7.2 Clearing adaption values	New feature.	–
Rev 1.4	31.01.2014	3.5 System requirements	The software can also be used with the operating system Windows 8.	–
Rev F	16.12.2015	4.1 Update Textron Motors Diagnostic Software	Webseite „weber.diagsys.com“ changed by „textronmotors.diagsys.com“.	–

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