



Reference Guide 810123

Offboard Diagnostic Information System (ODIS Service)

Version 1.1.2

mitted unless authorised by Volkswagen AG. Volkswagen AG does not guarantee or accept any li

Offboard Diagnostic Information System Service - 1.0.5

Importer: —	VIN: —		
Dealer: —	Engine: —		
Order: —			

Welcome to Diagnosis

Goal: full scope of diagnostic functionality

Once the vehicle has connected and diagnosis has started, vehicle identification and evaluation of the DTC memory will take place. Then the "Guided Fault Finding" and "Guided Functions" will be available for vehicle diagnosis. If you would like to work without a warranty order, you also have the option to use OBD.

Connection to the vehicle established
 Ignition switched on
[Start diagnosis](#)

Operating modes

- Measurement
- Flash
- Diagnosis
- Info
- Admin

Data
Extras
Help
Info
Trace

Application start was ended.

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Course Number 810123

Based on ODIS Service Software Version 1.1.2

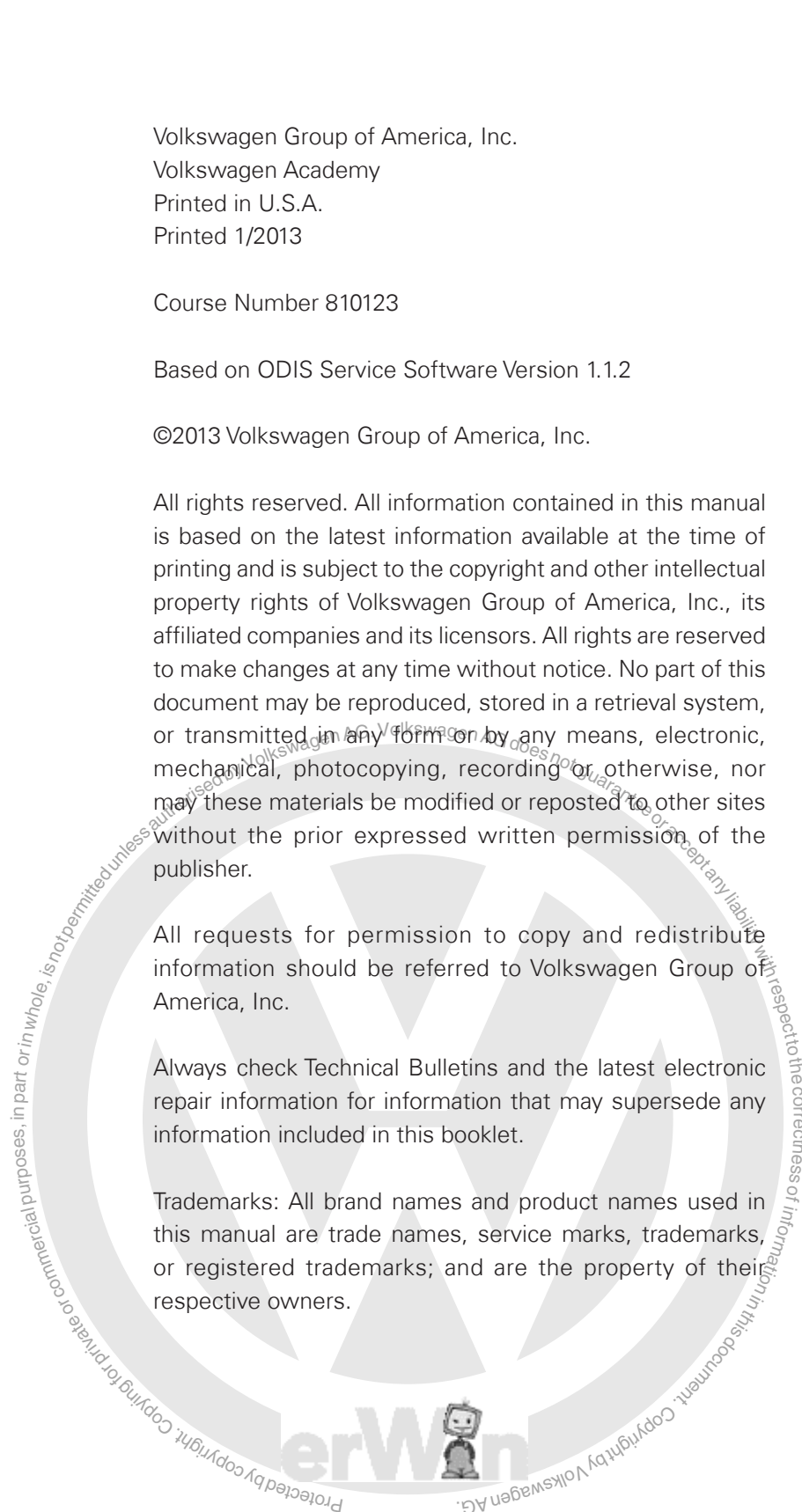
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This Reference Guide provides information regarding the new program "Offboard Diagnostic Information System."
This Reference Guide is not a Repair Manual.

This is Reference Guide is not meant to replace the ODIS manual.



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The Offboard Diagnostic Information System

The Offboard Diagnostic Information System (ODIS) is the software that will be replacing the VAS-PC diagnostic software in the near future. It is an extension of the VAS-PC software that adds many features to help with vehicle diagnosis and repair. ODIS does not replace Guided Fault Finding (GFF). Guided Fault Finding is an integral component of ODIS.

ODIS can be used on VAS 5051B, VAS 5052A and VAS 6150 diagnostic tools, as long as they are correctly updated. It cannot be used on the VAS 5051A or VAS 5052.



ODIS-94



ODIS-95



ODIS-96

The ODIS interface is different from VAS-PC, and is very intuitive. With the this Reference Guide and some practice, it won't take long for you to discover the advantages of ODIS.

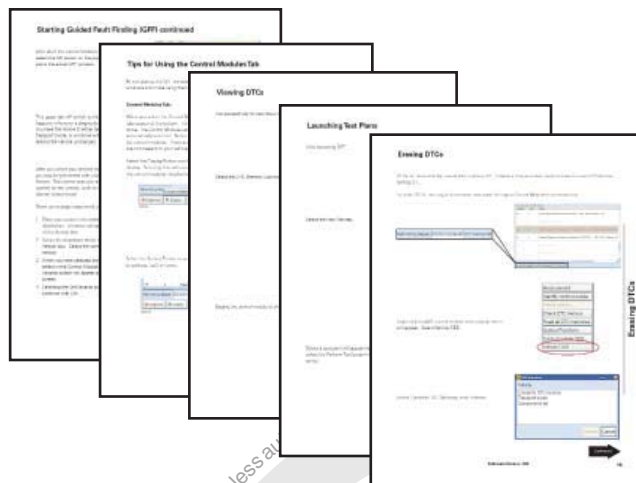


ODIS-1

Using this Reference Guide

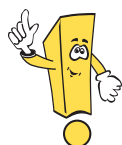
This reference guide contains a series of Job Aids that are designed to help you quickly move through the ODIS interface.

In addition to being listed in the Table of Contents, the titles of each Job Aid are clearly marked on the sides of every page. This allows for “thumbing through” of this Reference Guide to quickly find the Job Aid that will help you with your current ODIS task.



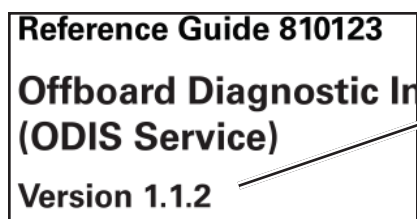
As with any computer program, practicing is the best way to learn. Be sure to use ODIS regularly, and use these Job Aids if you have questions.

The ODIS interface has its own User Guide, and this series of Job Aids is not designed to replace that document. These Job Aids are designed to get started quickly. If you want more detailed information, consult the User Guide in the ODIS interface.



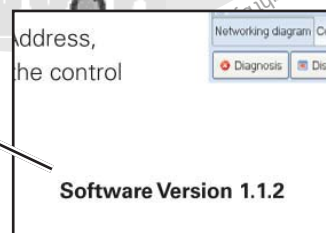
This Reference Guide only covers the ODIS software version shown on the cover, which is also shown on the bottom center of each page. As with any software program, there will be updates and changes. If you are using a version of ODIS software that is different than the version shown in this Reference Guide, the Scan Tool may show different screens or information.

The electronic version of this Reference Guide will be updated periodically, but it will not be reprinted. Always check the Certification Resource Center for the latest Reference Guide version.



Front Cover

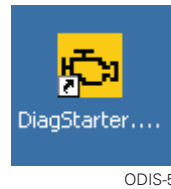
Software Version
Number



Bottom of Page

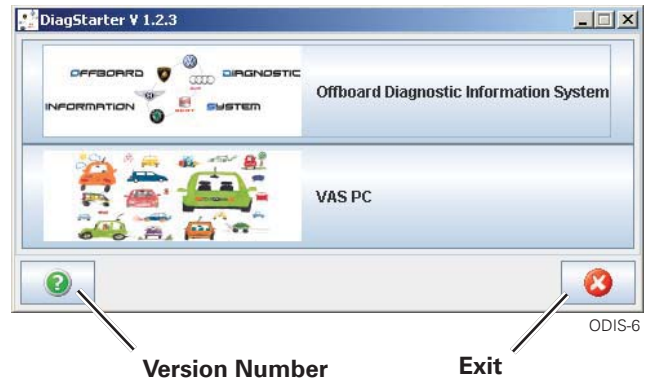
Launching ODIS

The ODIS application is launched from the Scan Tool Desktop using the **DiagStarter** icon. Double-click the icon, then select Offboard Diagnostic Information System.



ODIS-5

VAS-PC and ODIS Selection Window



ODIS-6

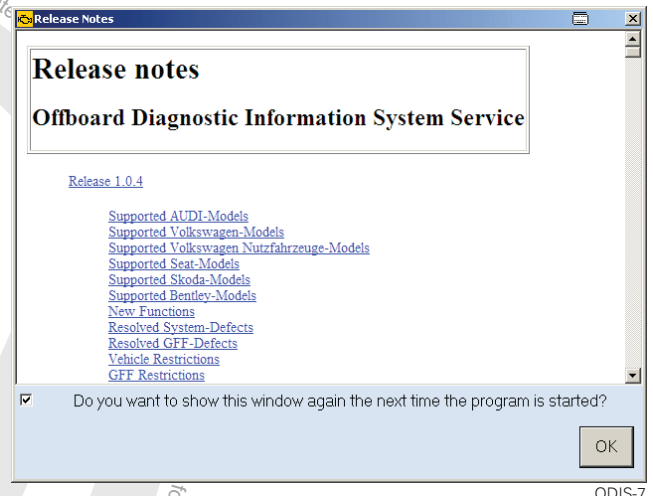
Launching ODIS

Release Notes

This screen appears upon launch. It lists the vehicles supported, changes and restrictions to ODIS since the last update. Each of the changes is a hyperlink that takes you to the information.

To continue, select the **OK** button on the lower right of the window.

If the check box at the bottom of the window remains checked, this window appears at startup of the program.



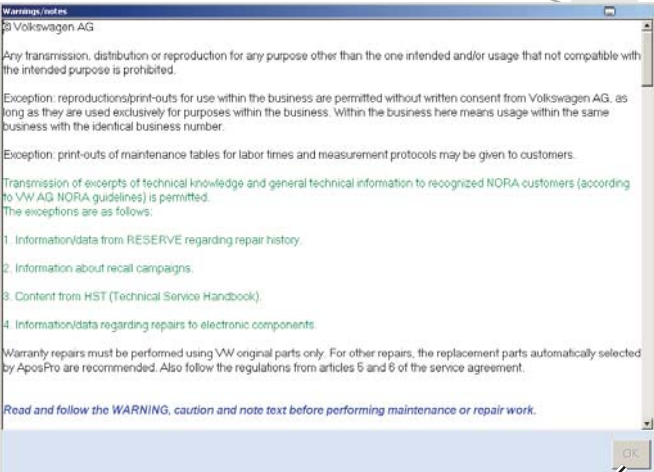
ODIS-7

Continued

Launching ODIS (cont)

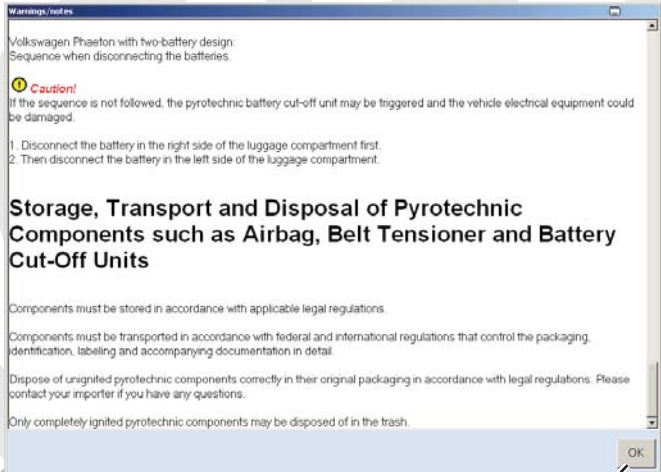
Warnings/Notes

The Warnings/Notes screen requires you to take specific action. Read all warnings and notes. After scrolling to the bottom of this list, the **OK** button turns from gray to black. Selecting the **OK** button at this point allows you to proceed.



ODIS-8

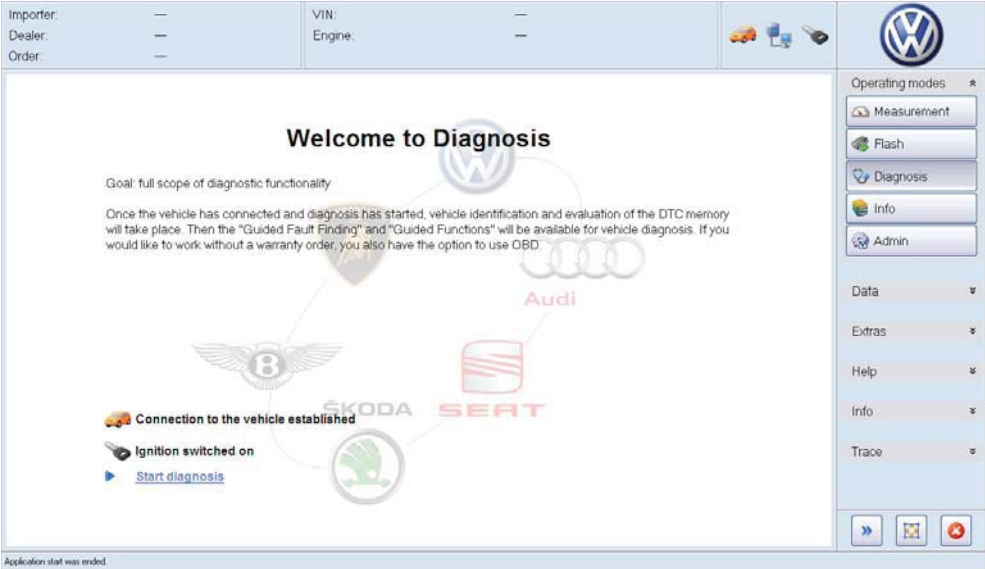
Grayed-Out Button



ODIS-9

Active Button

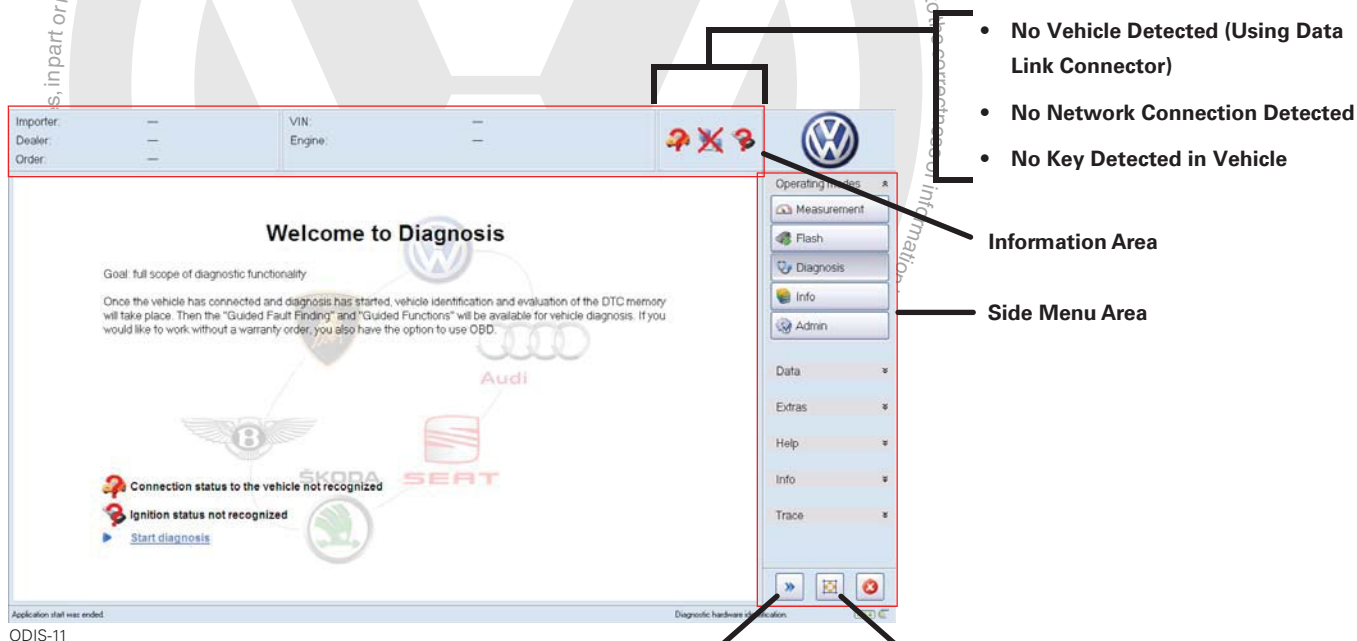
Congratulations! You have arrived at the ODIS main screen!



ODIS-10

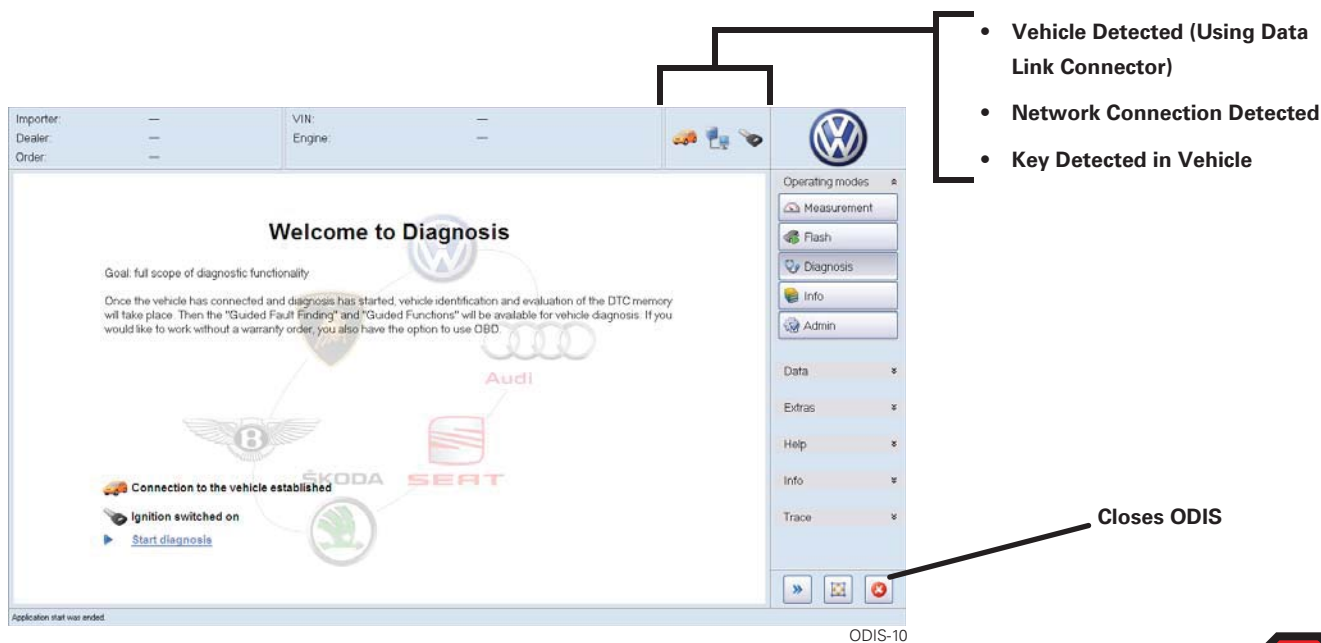


Using the ODIS Window



Collapses/Expands only the Side Menu Area

Collapses/Expands both the Information Area and the Side Menu Area



The ODIS Window





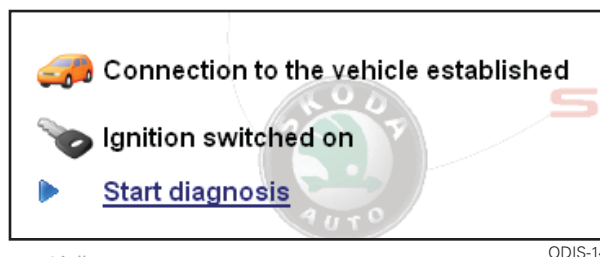
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Launching Guided Fault Finding

Before ODIS allows you to start GFF, the Data Link Connector (DLC) must be connected and key recognized in the vehicle. If the Scan Tool is not connected to the internet, it will not perform operations such as Software Version Management (SVM), GEKO, unlocking component protection or uploading diagnostic logs.



From the ODIS main screen, select the **Start diagnosis** hyper-link.



A Vehicle Identification window appears with the Vehicle Identification Number (VIN) already in place. The top of this window has Automatic or Manual Vehicle Identification selections. If you choose Automatic, CAREFULLY review the information that is automatically inserted to make sure the vehicle and equipment are identified correctly.

If using Manual, use the drop down menus to identify the vehicle type. This is very similar to ElsaWeb vehicle identification menus.

When the vehicle identification is complete, make sure the **Work with Guided Fault Finding** is checked and select **Apply**. If Guided Fault Finding is not selected, the diagnostic capabilities are severely limited.



vehicle basic features

Vehicle identification ☐ automatic ☒ manual

VIN
WWWHN7AN5CE517664

Manufacturer
Volkswagen

Model
35 - Passat CC 2009 > only USA/Canada

Model year
2012 (C)

Version
Coupe

Engine

☒ work with Guided Fault Finding

Apply Cancel

ODIS-15



vehicle basic features

Vehicle identification ☐ automatic ☒ manual

VIN
WWWHN7AN5CE517664

Manufacturer
Volkswagen

Model
35 - Passat CC 2009 > only USA/Canada

Model year
2012 (C)

Version
Coupe

Engine
CCTA 2.0 L Motronic/147kW

☒ work with Guided Fault Finding

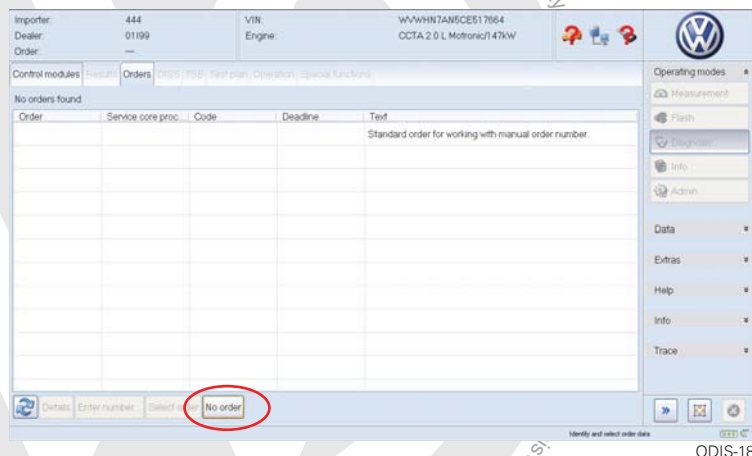
Apply Cancel

ODIS-16

Continued

Launching Guided Fault Finding (cont)

After your Global User ID is entered, Vehicle Diagnosis starts. The screen changes and displays many tabs. The Orders tab is automatically selected, however this tab is not yet used by our market. Select the **No Order** button at the bottom of the page to continue.



Selecting No Order automatically switches the upper tab from Orders to Control Modules and it begins to look for the control modules that are installed in the vehicle.

Launching GFF

Vehicle Identification

Importer: 444
Dealer: 01199
Order: —

VIN: WVVH7AN6CE517664
Engine: CCTA 2.0 L Motronic 147kW

Control modules Results Orders DSS TSB Test plan Operation Special functions

Control module list (48 entries)

Address	Fault	Name
10	0	Parking Assistance 2 (— — —)
20	0	High Beam Assistance (— — —)
01	0	Engine Control Module 1 (01 - Motorelektronik) (06J906027DD 2096 MED17.5.2 TFSI 2.03)
81	0	Engine Electronics Group (— — —)
61	0	Battery Regulation (— — —)
02	0	Transmission Control Module (— — —)
22	0	All-wheel Control (— — —)
42	0	Door Electronics Driver Side (— — —)
62	0	Door Electronics Passenger Side (— — —)
62	0	Door Electronics Rear Left (— — —)
72	0	Door Electronics Rear Right (— — —)

Networking diagram Control module list DTC memory list

Diagnosis Display Sorting

Read control modules: (12%)

Control Module Scanning Progress

Control Module Sorting Options (repair group, etc.)

Control Module Display Options (installed, all available, etc.)

End Diagnostic Session

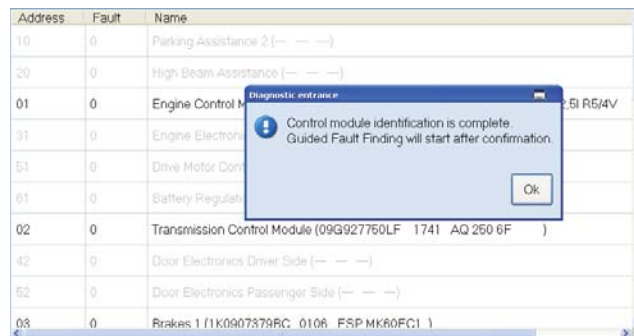
ODIS-19

ODIS-20

Continued

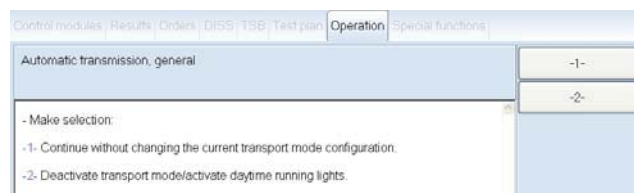
Launching Guided Fault Finding (cont)

After all of the control modules have been identified, select the **OK** button on the popup window. This starts the actual GFF process.



ODIS-21

This upper tab switches to the Operation tab. If the vehicle is in transport mode, ODIS may give you the option to take the vehicle out of transport mode or continue with the GFF process and leave the vehicle unchanged.

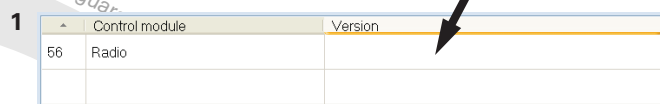


ODIS-22

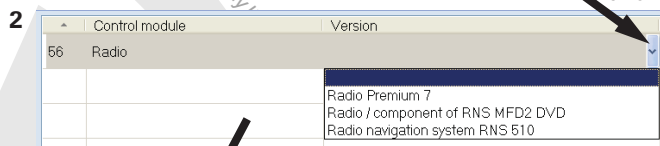
If ODIS detects that there may be more than one variant of a control module, you may be presented with a Variant Selection screen. This screen asks you to specifically identify a system on the vehicle, such as what type of radio or climate control head.

There are four steps to fill in this screen and continue:

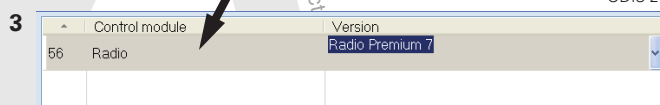
1. Place your cursor in the blank Version box and click/select. An arrow appears on the right side of the Version box.
2. Select the drop down arrow that appears in the Version box. Select the correct option for your vehicle.
3. Click/select in the Control Module Box and the Set Variants button appears on the bottom of the screen.
4. Selecting the **Set Variants** button allows you to continue with GFF.



ODIS-23



ODIS-24



ODIS-25



ODIS-26

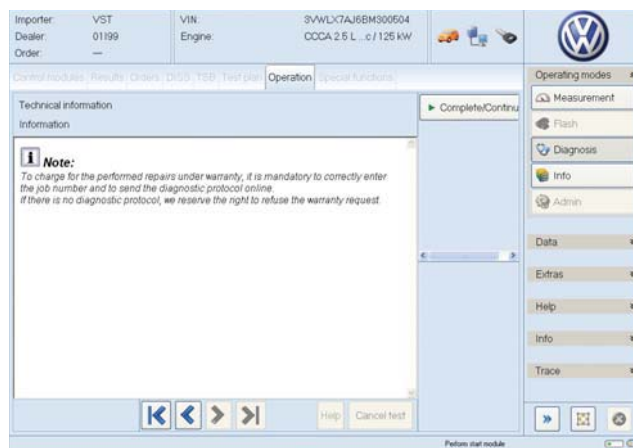
Launching GFF

Continued

Launching Guided Fault Finding (cont)

After completing the Variant screens, the GFF test plan continues. There may be a couple of screens regarding warranty, diagnostic protocol and ElsaWeb.

After passing these screens, the control modules are scanned.

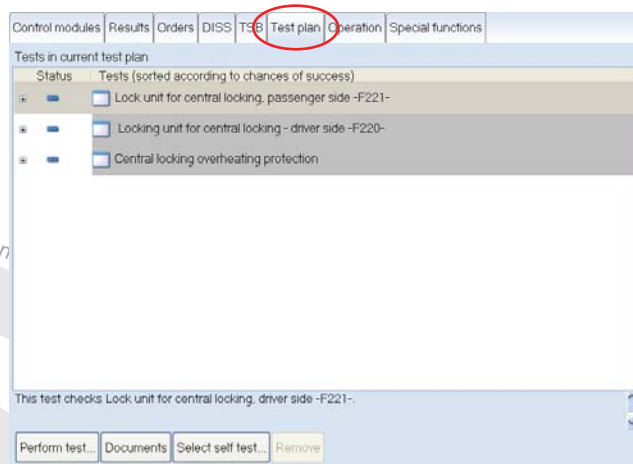


ODIS-27

When the vehicle scan is complete, ODIS may direct you to the DISS tab. This tab is not used in the North American market. The following upper tabs will probably be the most useful for your next steps in GFF:

Test Plan Tab

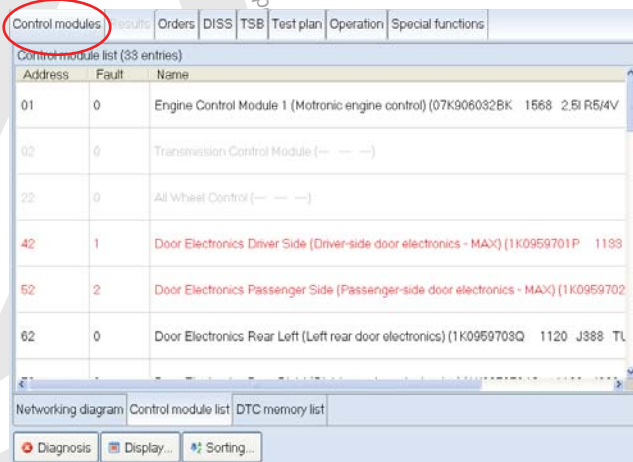
This tab can be selected to view the test plans loaded by GFF as a result of DTCs in the control modules.



ODIS-28

Control Module Tab

This tab can be selected to view which control modules have DTCs. Control modules that have recorded DTCs are displayed in red. The number of DTCs are displayed in the Faults column.



ODIS-29

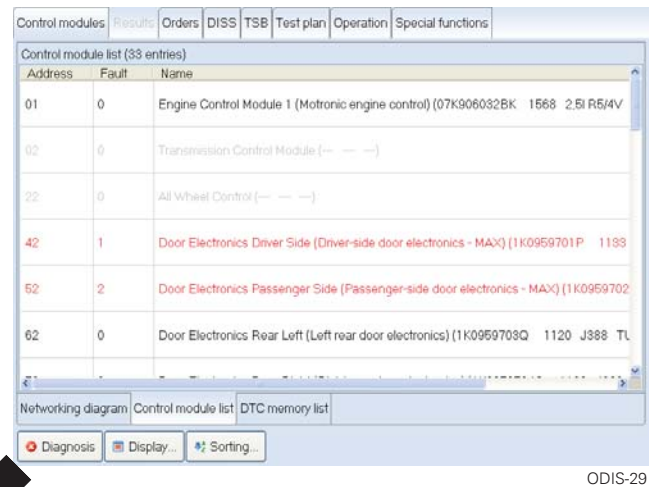
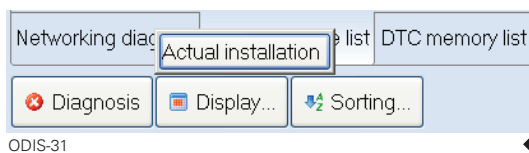


Tips for Using the Control Modules Tab

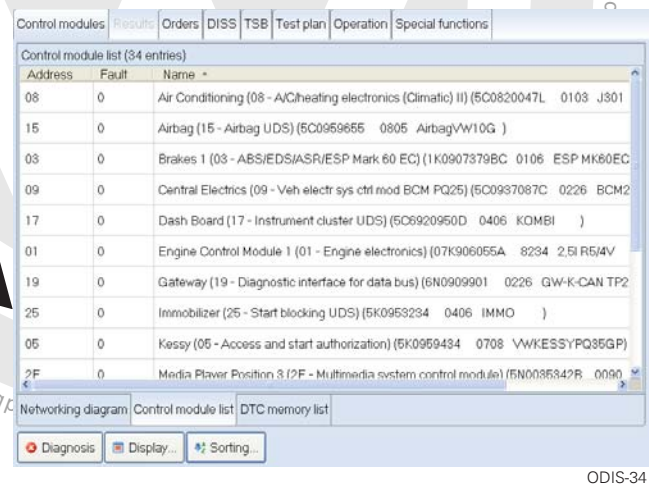
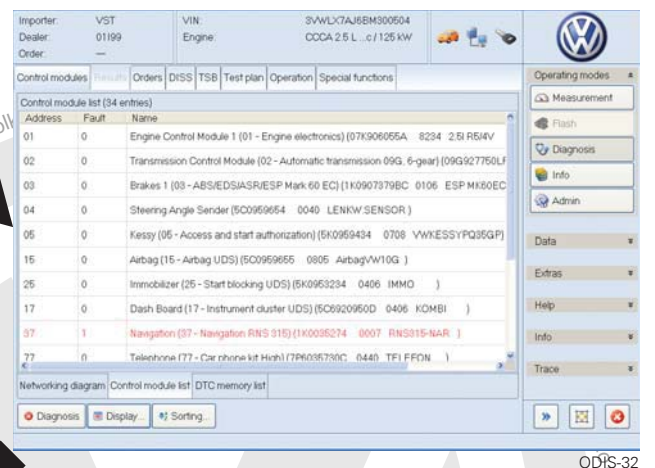
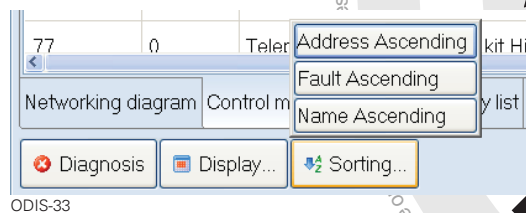
Control Modules Tab

When you select the Control Modules tab, the default screen shows the Control Module List. Notice that there are grayed-out control modules. These are control modules that may not be present on your vehicle, depending on options. Note: If an installed control module is not communicating with the Gateway due to a fault, it appears grayed-out in the Control Module screens.

Select the **Display** button and Actual Installation displays. Selecting Actual Installation narrows the list to the control modules installed on your vehicle.



Select the **Sorting** button to sort the control modules by address, fault or name.



Sorting can also be performed using the Address, Fault and Name Columns headers above the control module list.

Continued

Tips for Using the Control Modules Tab (cont)

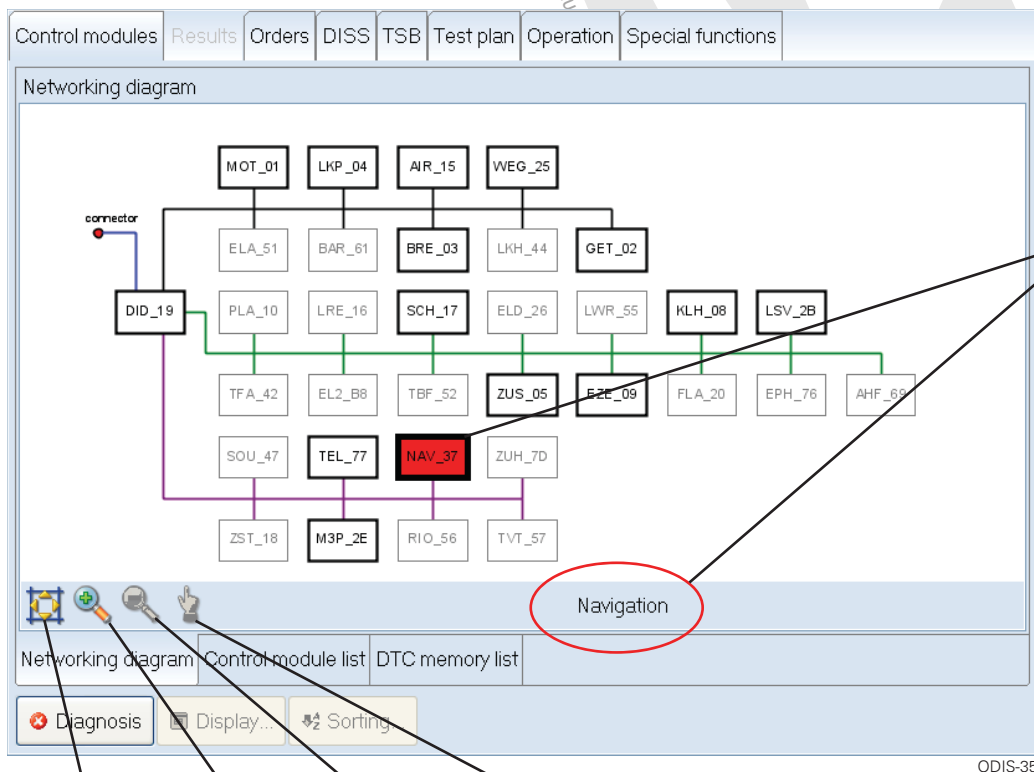
Choosing the lower **Networking Diagram** tab displays a “topology” view of the possible control modules on the vehicle. This screen may not represent the exact topology of the vehicle. Always refer to the Repair Information for the latest topology.

- Control modules in a light black border are not identified due to options or communication DTCs
- Control Modules surrounded by a bold black border are identified and have no DTC events in memory
- Red colored control modules have one or more DTC events in memory
- Control modules that are not communicating may appear as grayed-out - the same as control modules that are not installed
- The status of a control module under the Control Modules tab is static and is not updated until the vehicle is re-scanned

Control Module Tab Tips

The control module abbreviations are in German.

Use the Address Word number, or select a control module to view the name in the lower portion of the screen.



Removes Borders and Allows for Full-Screen Viewing

Zoom In

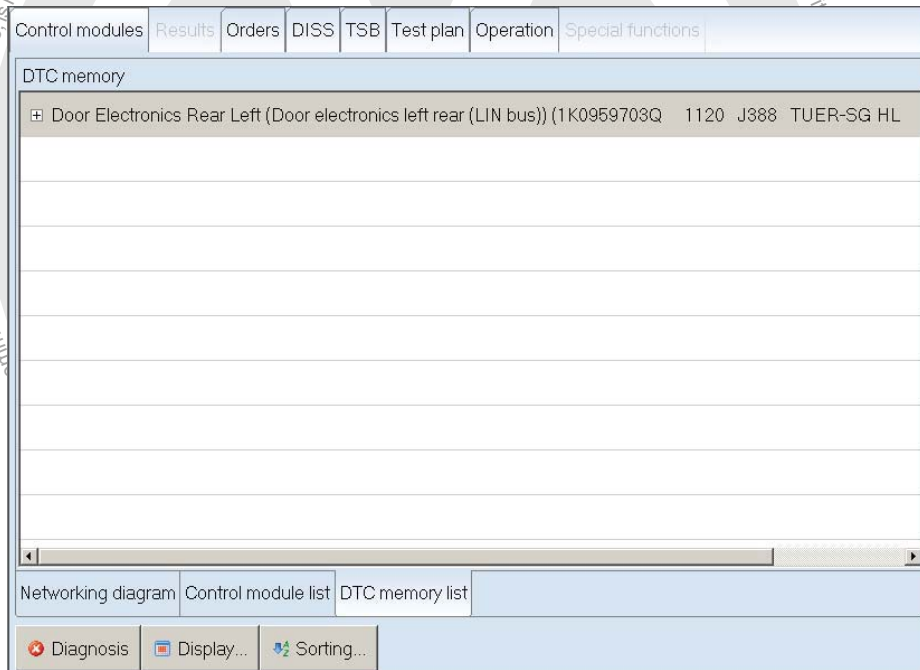
Zoom Out

Moves Diagram Around When Zoomed In



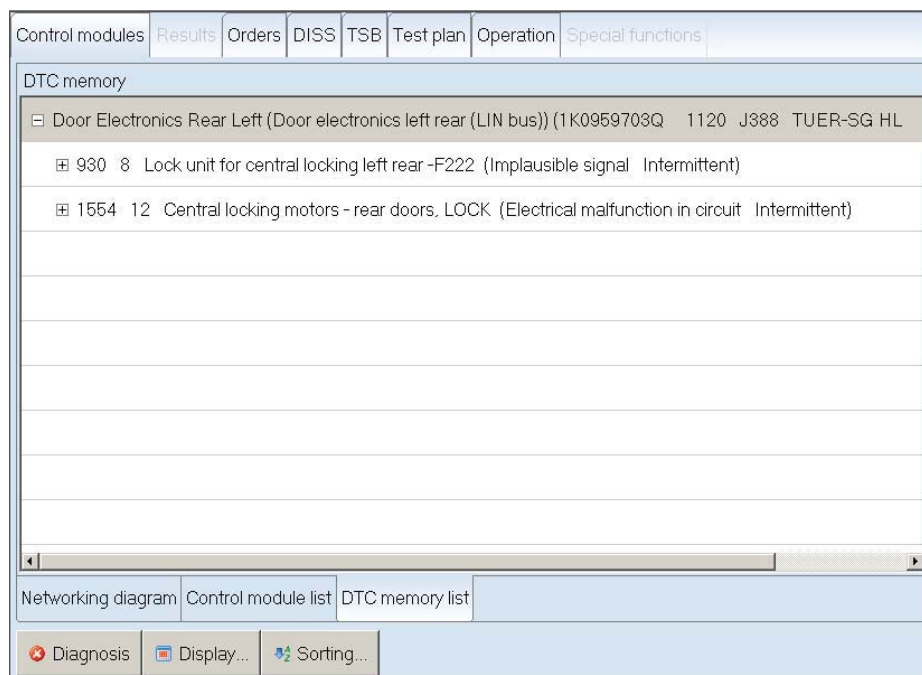
Viewing DTCs

After launching GFS



ODIS-36

Select the **DTC Memory List** lower tab.



ODIS-37

Click on the "+" symbol to expand the control module information and show its DTCs.

Viewing DTCs



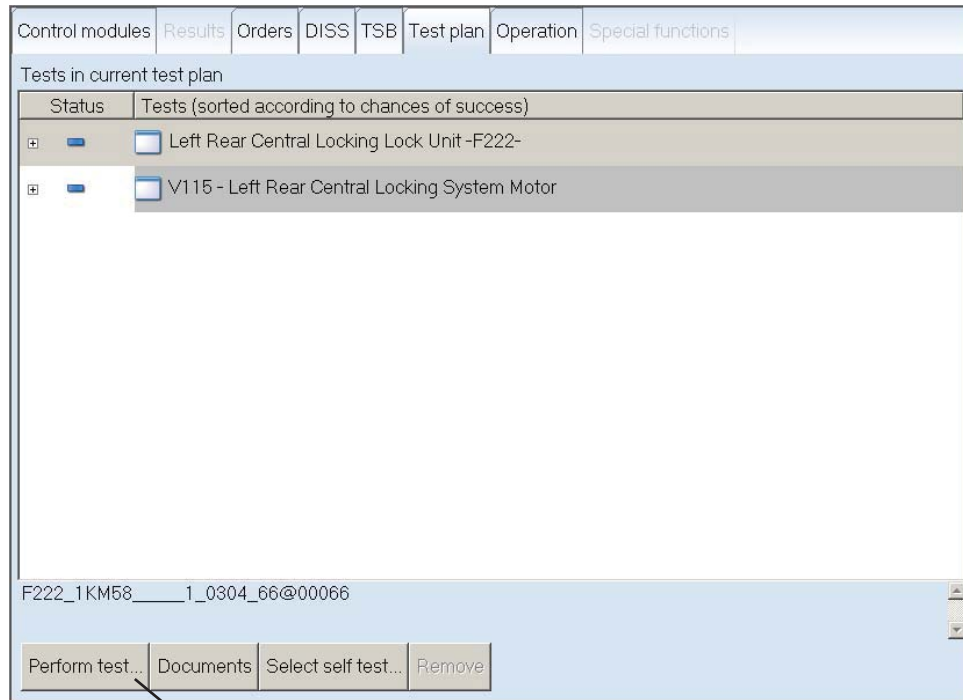
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Launching Test Plans

The complete list of DTCs can be displayed after launching GFF.

Select the **Test Plan** tab,



Perform Test

Select a test plan (appears highlighted), then select the **Perform Test** button in the lower left corner.



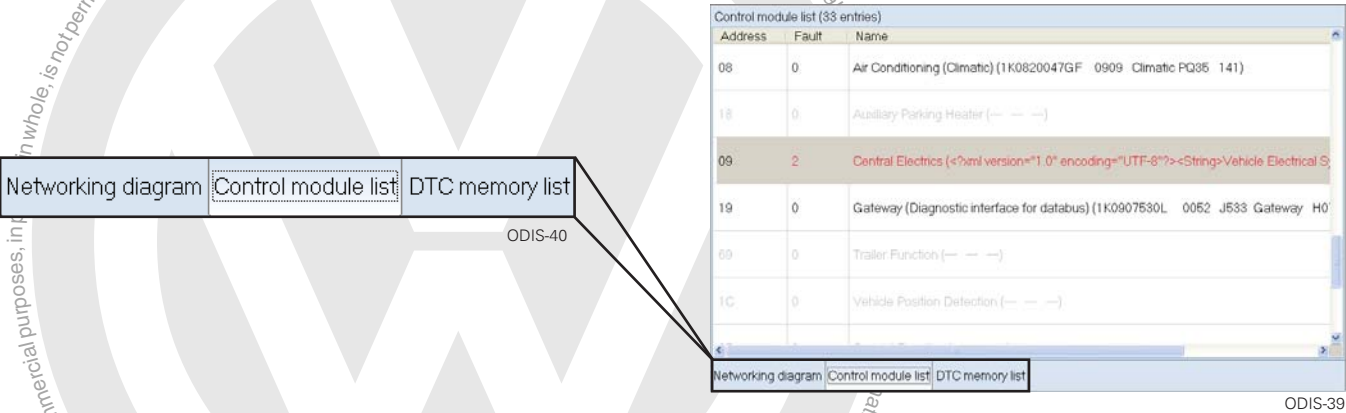
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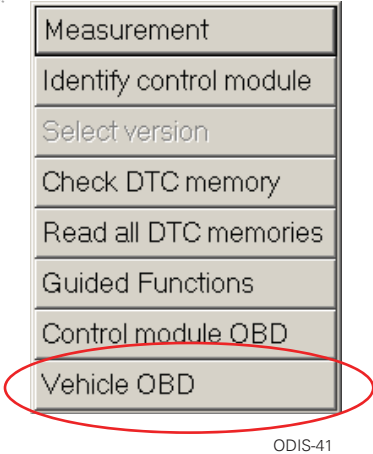
Erasing DTCs

DTCs are automatically erased when exiting GFF. However, this procedure outlines how to erase DTCs before exiting GFF.

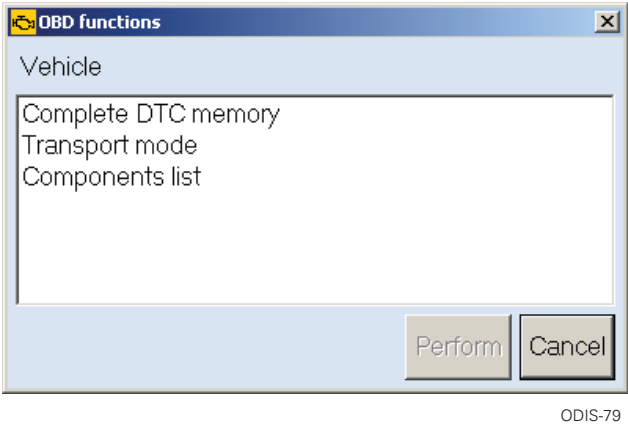
To erase DTCs, use any of the bottom tabs while the upper Control Modules tab is selected.



Right click on ANY control module and a popup menu appears. Select **Vehicle OBD**.



Select **Complete DTC Memory**, then **Perform**.



Erasing DTCs

Erasing DTCs (cont)

This takes you to the Results upper tab. From this point on, it remains black instead of gray. In addition to erasing DTCs, the Results tab allows you to re-check the system to see if DTCs have been resolved.

Control modulesResultsOrdersDISSTSBTest planOperationSpecial functions

Control modules with DTC entries

Address	System	Fault
19	Gateway (KWP2000 / TP20 / 7N0907530L / 1620 / H41)	0
01	Engine Control Module 1 (KWP2000 / TP20 / 06J906027DD / 2096 / H04)	0
02	Transmission Control Module (KWP2000 / TP20 / 02E300057Q / 3118 / 351)	0
03	Brakes 1 (KWP2000 / TP20 / 3AA614109AB / 0022 / H07)	0
04	Steering Angle Sender (coded => communication faulty)	OK
08	Air Conditioning (UDS / ISOTP / 5K0907044FS / 1011 / H17 / EV_Climatronic A01010)	0
09	Central Electrics (KWP2000 / TP20 / 3AA937087E / 0455 / 413)	1
15	Airbag (KWP2000 / TP20 / 5N0959655Q / 1918 / 014)	0
16	Steering Column Electronics (UDS / ISOTP / 3C5953501BG / 0140 / 014 / EV_VW360SteerWheelUDS A03004)	0
17	Dash Board (UDS / ISOTP / 3C8920970T / 0607 / H04 / EV_Kombi_UDS_VDD_RM09 A04114)	0
25	Immobilizer (KWP2000 / TP20 / 3AA959433A / 0399 / 042)	0

Total number of DTC entries: 3

01 - ID VEH - ESP

Update

Now

Cancel

☐ cyclic

0 s

Erase

Complete

Perform

ODIS-80

Erasing DTCs

You can now chose **Erase** and select to erase either the Complete System or Individual. At the time of this printing, either choice would erase ALL DTCs in all control modules.

Update

Now

Cancel

☐ cyclic

0 s

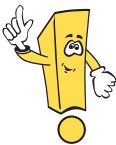
Erase

Complete system

Perform

ODIS-44

Complete System/
Individual Selection

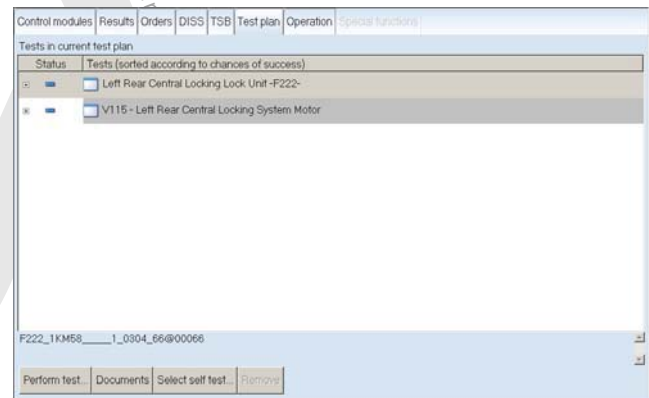


Be careful when erasing all DTCs when an airbag concern is present and not yet repaired. Erasing the DTCs allows the system to re-enable certain components that it may have deactivated because of the DTC.



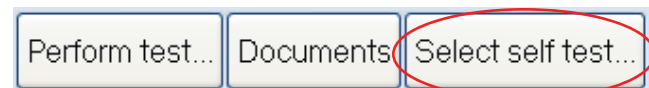
Selecting User Generated Test Plans

After launching GFF, select the **Test Plan** tab. This tab displays the test plans that have been loaded by GFF. However, you can also attach your own test plans.



ODIS-45

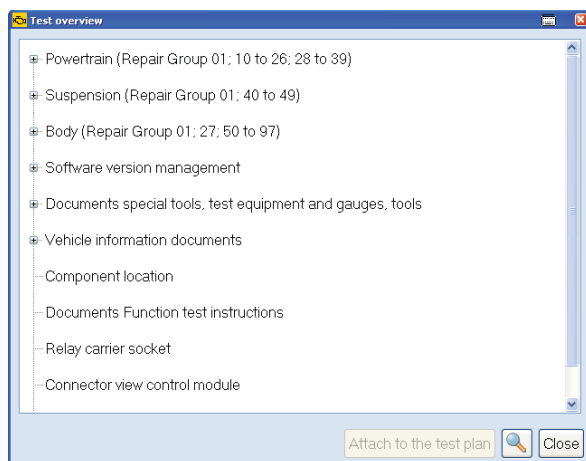
Select **Select Self Test** from the lower tabs.



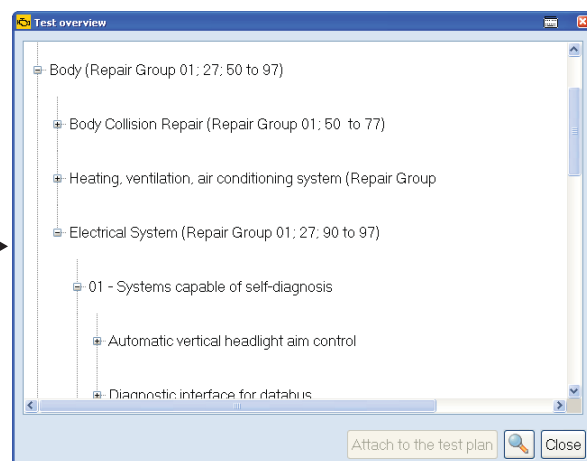
ODIS-46

The Test Overview window will appear. This window allows you to search for test plans.

Expand the folders to find the test plan you want. This is very similar to the Function/Component Selection area in VAS-PC.



ODIS-47

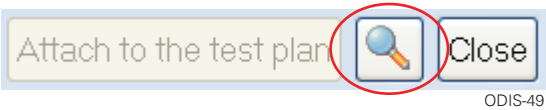


ODIS-48

Continued

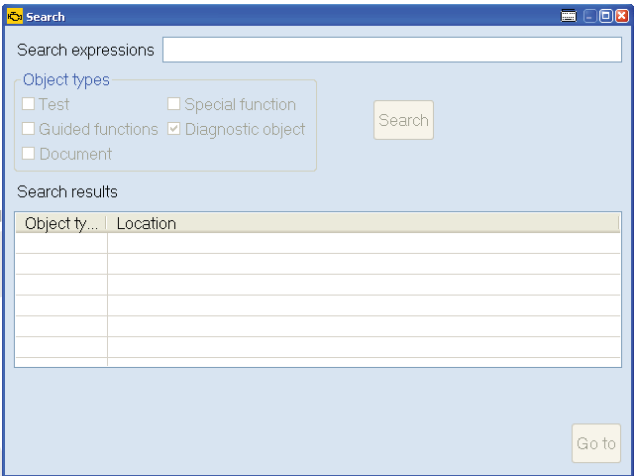
Selecting User Generated Test Plans (cont)

You can search for test plans by using the **search icon** (magnifying glass) at the bottom of the Test Overview window.



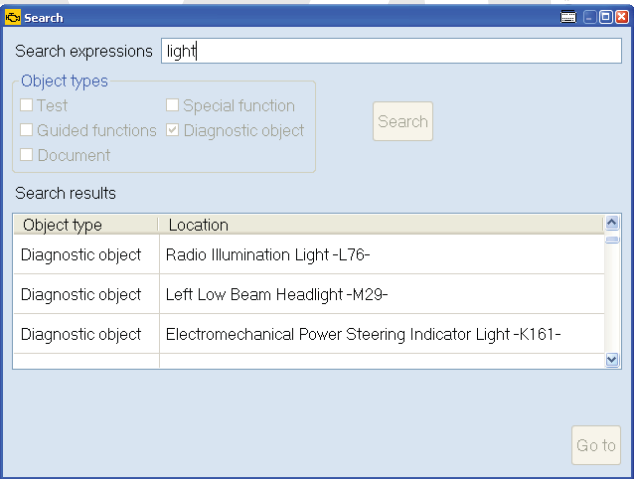
ODIS-49

A search window appears, allowing you to search for test plans using specific words.



ODIS-50

The results of your search appears in the lower part of the window. Scroll through the results to find the correct test plan.

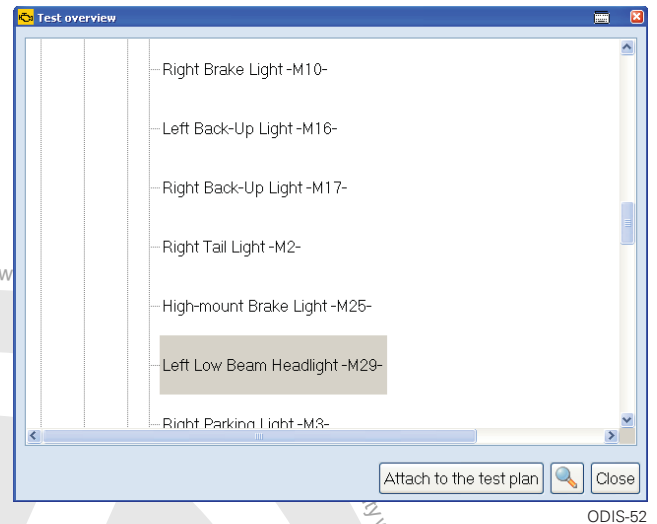


ODIS-51



Selecting User Generated Test Plans (cont)

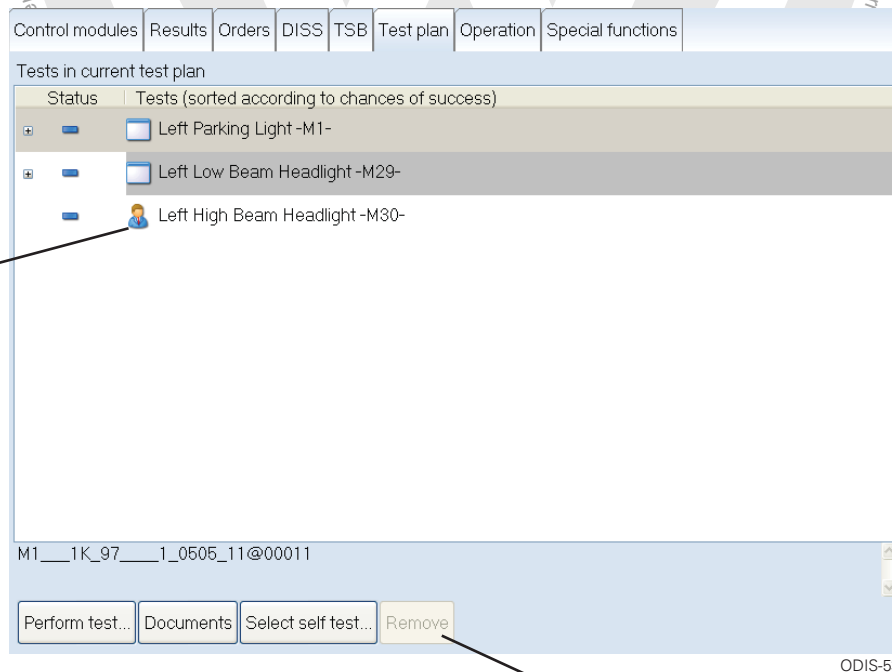
When you select a test plan from the search feature, you are directed to that test plan in the Test Overview menu structure. This test plan can now be attached using the **Attach** to Test Plan button.



When you return to the Test Plan tab, you can see the new test plan that you have attached. Since this is a user-attached test plan, there is an icon of a person next to it.

All user-based test plans can be removed using the **Remove** button at the bottom of the screen. ODIS-attached test plans cannot be removed.

User-Loaded Icon



Remove Button
(becomes active if the user-loaded test plan is selected)

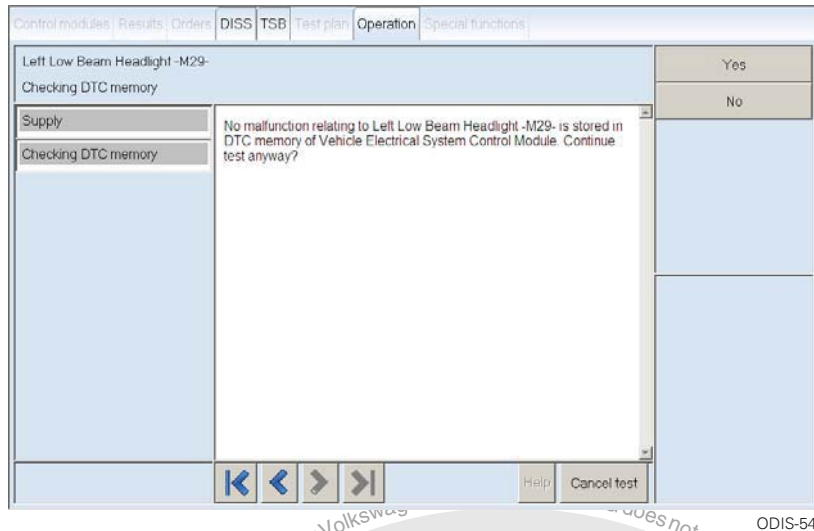




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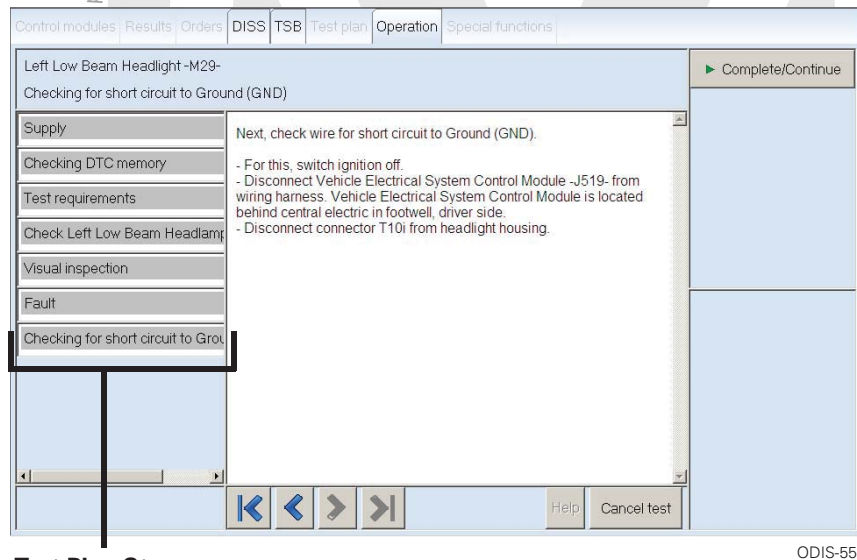
Understanding the GFF the Test Plan

After you have selected a test plan to run, the upper tab changes to Operation. This test plan window displays the GFF test that is currently running.



The test plan window is similar to the test plan window in VAS PC GFF. Any Documents or Connector Views are available as buttons on the right side of the screen. The main difference is that the steps of the test plan that have been already performed are listed in order on the left side of the page. This helps you to understand what has been done so far.

The buttons on the center bottom of the test plan allow you to go back and review steps. At the time of this printing, you could not restart the test plan at an earlier step by doing this. The test plan could only be continued at the farthest step of progress.



**Test Plan Steps
Already Performed**

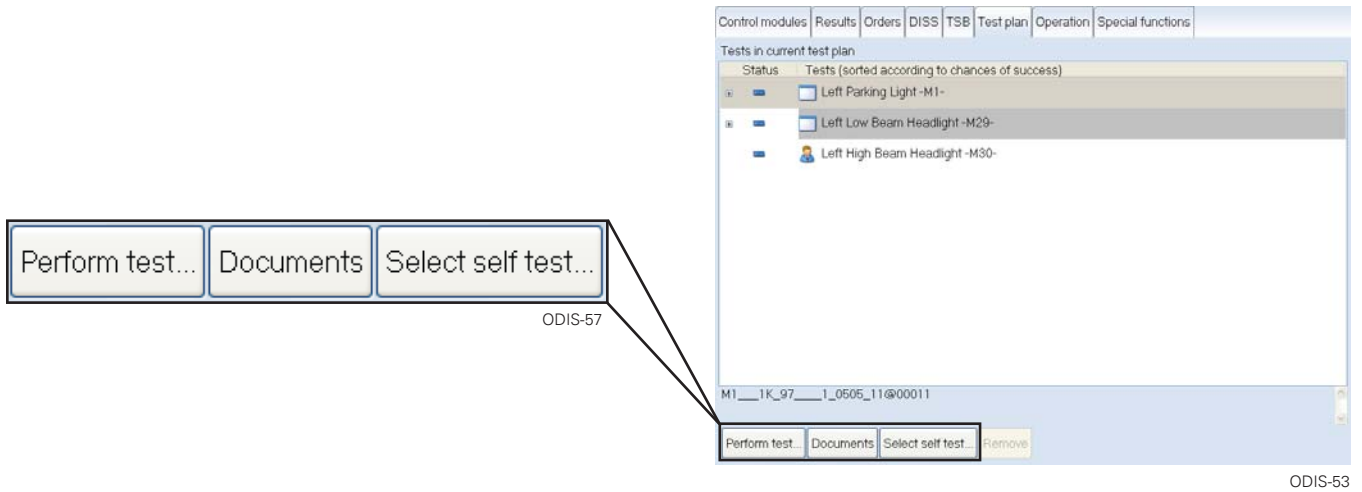




Documents

GFF contains Documents that contain additional information about a particular system or operation. These documents may be as simple as a connector view, or more complex such as the complete outline of the test plan including expected system operation.

Documents are available in the test plans, but can also be accessed under the Test Plan upper tab.



Documents for the Test Plan or the Test Program can be selected.

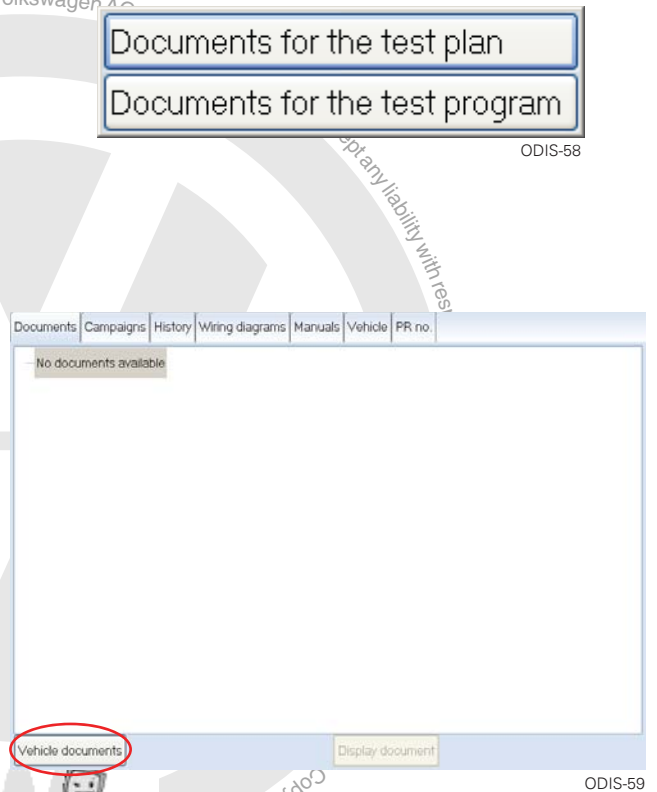
Documents for the Test Plan:

- Displays documents for ALL automatic and attached test plans

Documents for the Test Program:

- Displays documents for the highlighted test plan

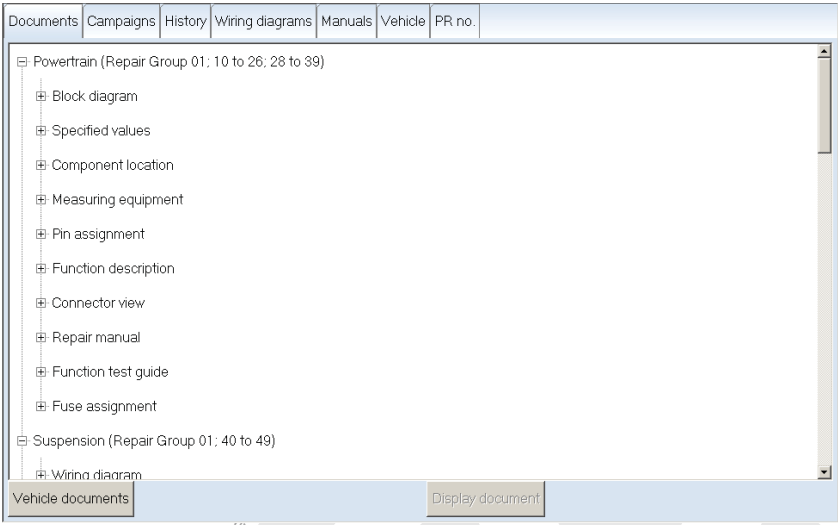
Depending on your choice, a list of documents may or may not appear. If the documents you're looking for don't appear, select the **Vehicle Documents** button at the bottom left of the screen.



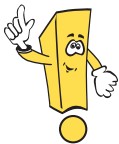
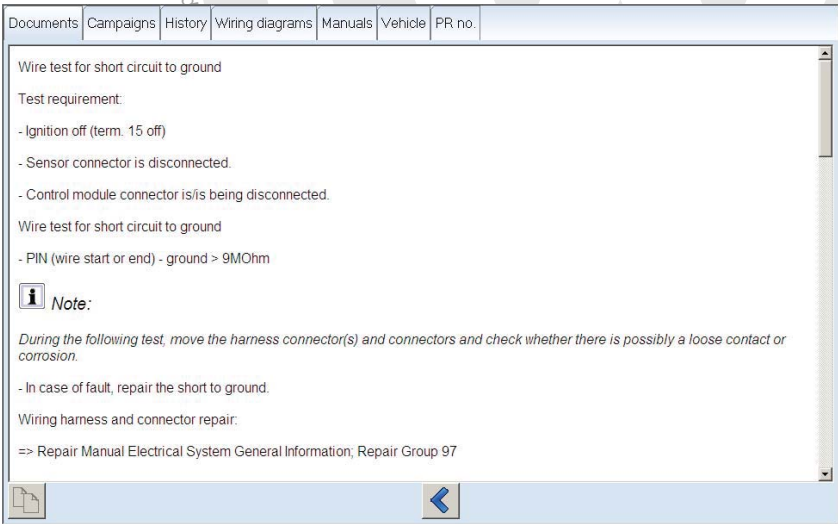
Continued

Documents (cont)

Selecting the **Vehicle Documents** button brings up a folder list of all of the documents for the vehicle.



Expand the folders to view the documents. After you have located a document you want to view, select the **Display Document** button in the lower right corner of the window.

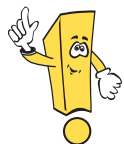
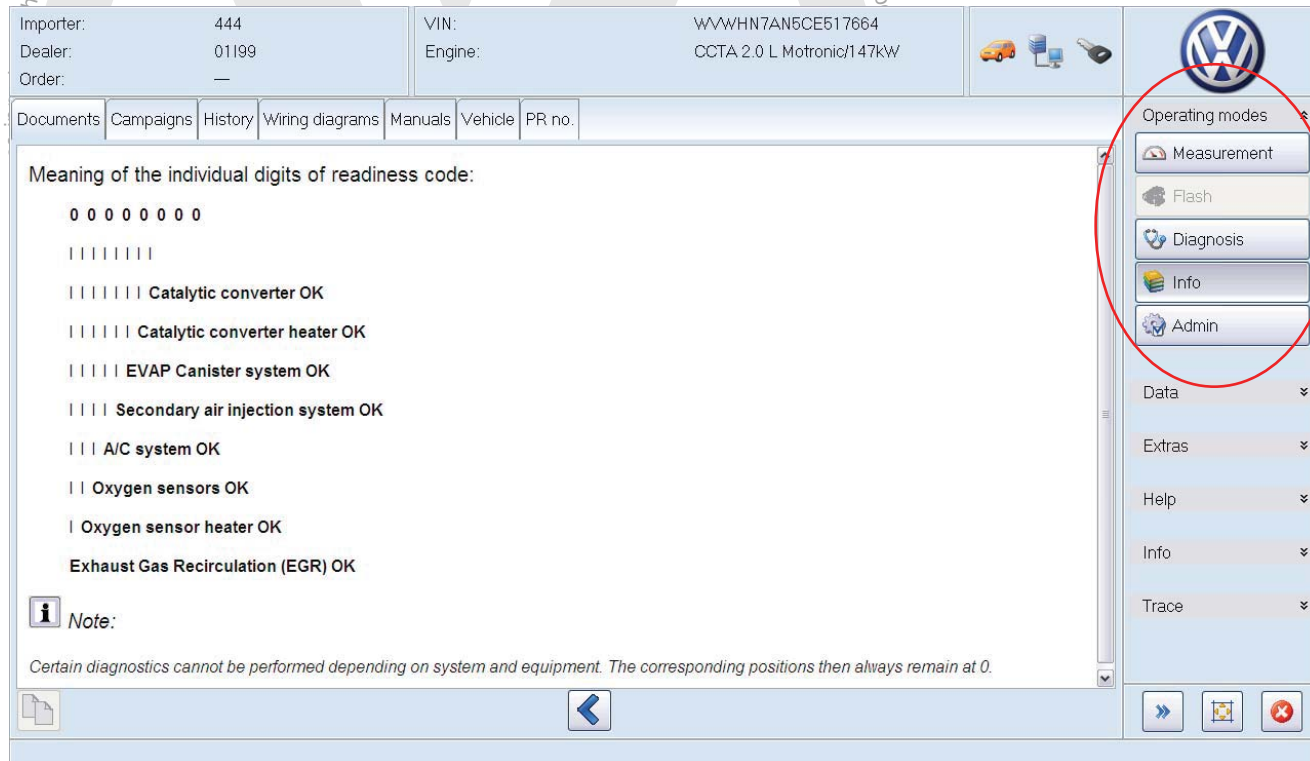


NOTE: Even if the document you are looking for says “Not Translated,” attempt to open the document anyways. In most cases the document is translated.



Documents (cont)

It is VERY IMPORTANT to note that selecting **Documents** exits the Diagnosis function of ODIS. After selecting **Documents**, you are now in the Info section. To return to any test plans or other diagnosis features, select the **Diagnosis tab** on the right side of the screen.



NOTE: The Search function in the right side screen menu under **Extras** can be used to search through all of ODIS, including **Documents**.



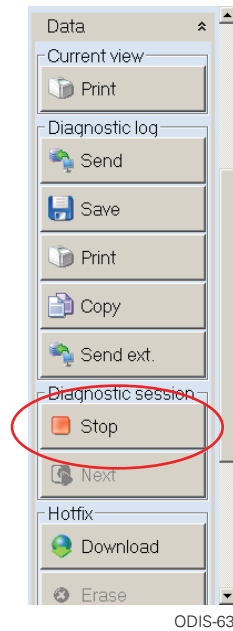


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Saving/Interrupting

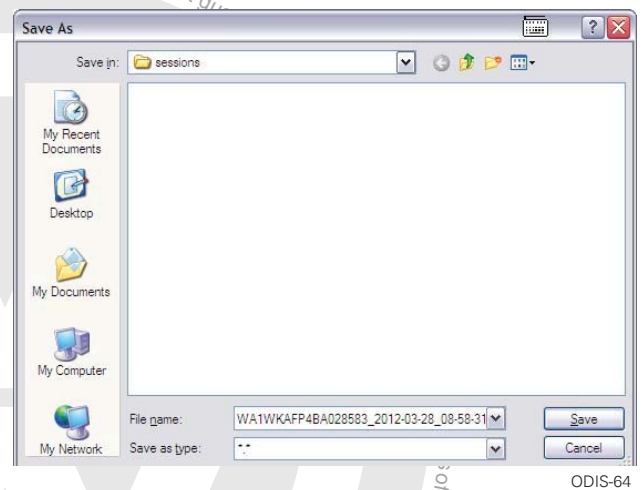
Saving or interrupting a job requires you to use some of the menus on the right side of the screen.

Expand the Data section by selecting the arrows next to the work Data in the side menu area. Select the **Stop** button under Diagnostic Session.

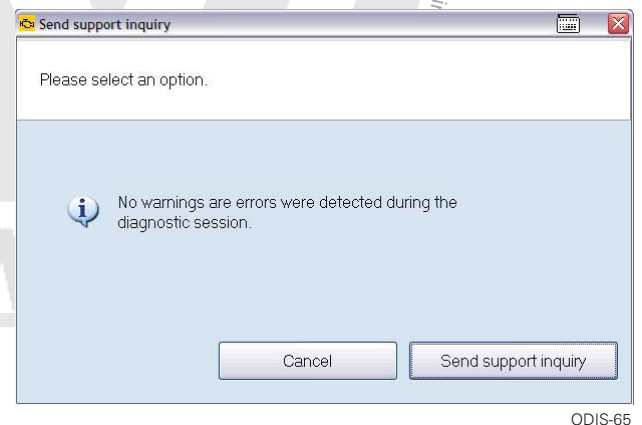


A "Save As" window appears. This window already has the save location and filename in place. You can either accept these or change them.

If the job is saved to the default location (pictured), that tester can be used to restart the job later. If the job is saved to a USB memory stick, that job can be restarted on any tester loaded with ODIS.



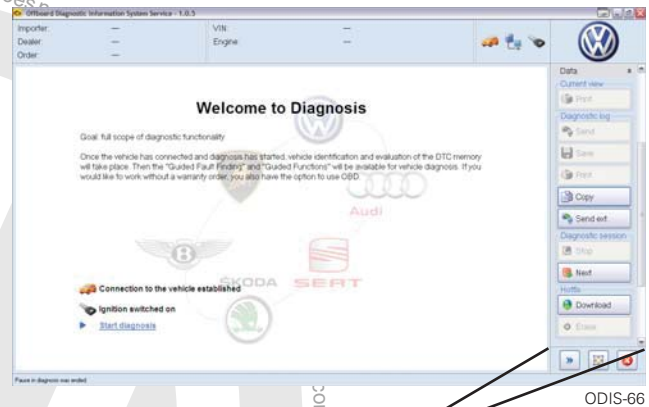
After saving, a window may appear requesting you to either send a support inquiry or cancel. At this point, since you are saving the job for later, choose the **Cancel** option.



Continued

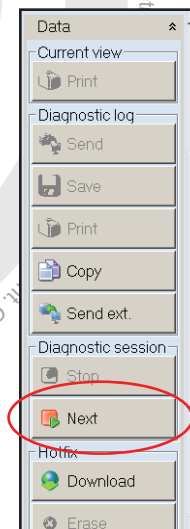
Saving/Interrupting (cont)

After the job is saved, you return to the main ODIS window.

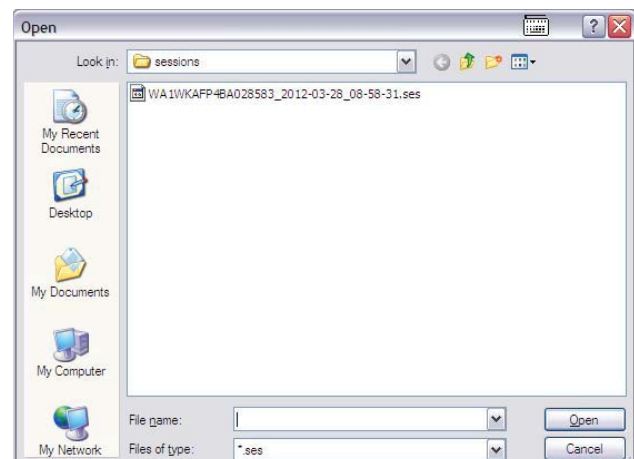


ODIS-66

To load a saved job, expand the Data tab in the side menu area, and select the **Next** button. The tester must be in communication with the original vehicle to load the saved job. If ODIS detects a different VIN, the test program is ended.



ODIS-66a



ODIS-67

A window appears listing the saved jobs. Select the job you want to load, then select **Open**.

Continued

Saving/Interrupting (cont)

The vehicle information and diagnosis log are now loaded. Any DTCs that have occurred since the test plan was saved do not appear until the vehicle is scanned again.

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The screenshot displays the ODIS-68 diagnostic software interface. At the top, a header bar contains vehicle information: Importer (444), Dealer (01199), Order (—), VIN (VWVHN7AN5CE517664), and Engine (CCTA 2.0 L Motronic/147kW). Below this is a navigation bar with tabs for Control modules, Results, Orders, DISS, TSB, Test plan, Operation, and Special functions. The main area shows a 'Control module list (48 entries)' table with columns for Address, Fault, and Name. The table lists various modules such as Air Conditioning, Airbag, Brakes, Central Electronics, Central Module Comfort System, Dash Board, Door Electronics, and Engine Control Module. The 'Engine Control Module 1' is highlighted. To the right of the table is a sidebar with 'Operating modes' (Measurement, Flash, Diagnosis, Info, Admin) and a list of data categories (Data, Extras, Help, Info, Trace). At the bottom, there are buttons for Diagnosis, Display..., and Sorting..., and a status bar indicating 'Loading the diagnostic session was ended.' and 'ODIS-68'.

Address	Fault	Name
08	0	Air Conditioning (08 - Climatronic) (5K0907044FS 1011 Climatronic)
15	0	Airbag (15 - Airbag) (5N0959655Q 1918 J234__30S VW10 HI)
03	0	Brakes 1 (03 - ABS/EDS/ASR/ESP TRW 450) (3AA614109AB 0022 J104 C2 450M V4A0)
09	1	Central Electronics (09 - Vehicle electrical system control module (BCM)) (3AA937087E 0455 BCM PQ47 H+)
4F	0	Central Electronics 2 (7N0907532 1620 EZE_2)
46	0	Central Module Comfort System (46 - Comfort system) (3AA959433A 0631 KSG PQ47 ELV 042)
17	0	Dash Board (17 - Schalttafeleinsatz) (3C8920970T 0607 KOMBI)
42	0	Door Electronics Driver Side (42 - Driver door electronics) (3C8959701 0501 TUER-SG FT)
52	0	Door Electronics Passenger Side (52 - Passenger door electronics) (3C8959702 0501 TUER-SG BT)
01	0	Engine Control Module 1 (01 - Motorelektronik) (06J906027DD 2096 MED17.5.2 TFSI 2 03)
19	0	Gateway (19 - Diagnostic interface for data bus) (7N0907530L 1620 J533 Gateway)

Loading the diagnostic session was ended.

ODIS-68

Saving/Interrupting

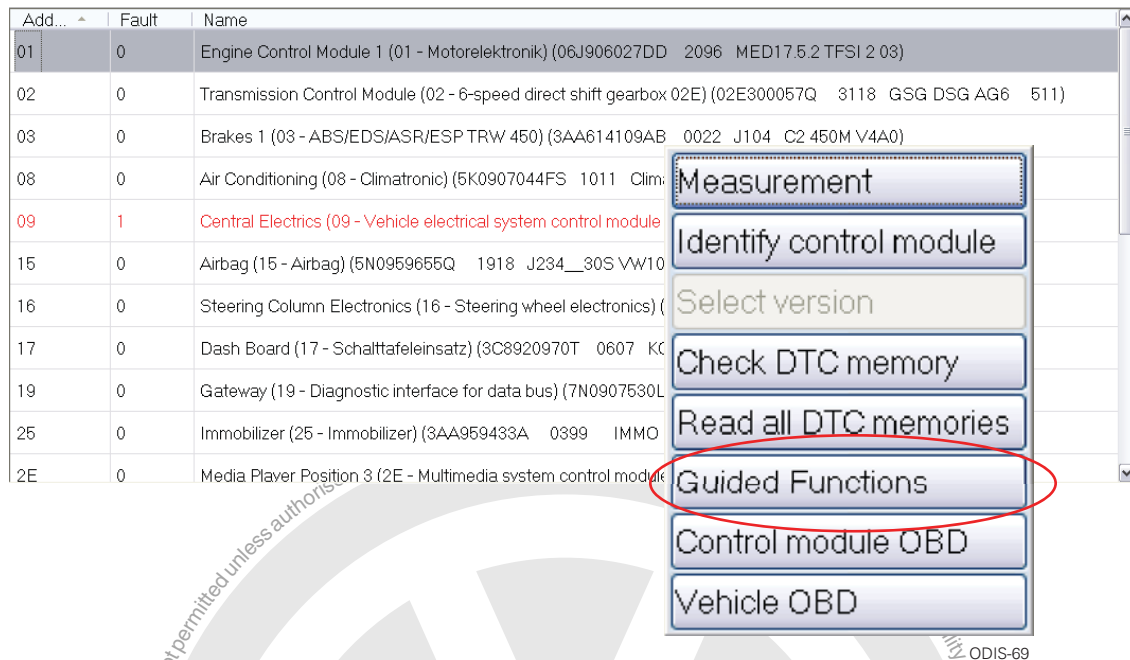




Guided Functions

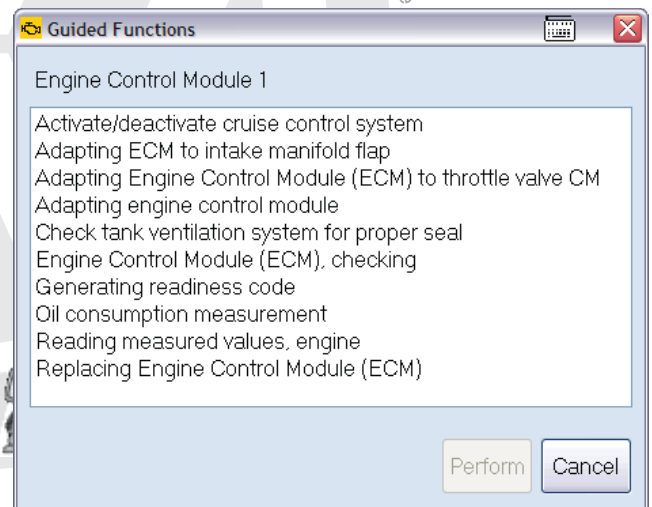
To access Guided Functions, right click on a control module in any of the Control Module screens. This example shows the Control Modules tab, but the menu can also be accessed from the Network Topology screen by right clicking on a control module.

Scroll down and select **Guided Functions**.



A list of functions appears.

These functions are **SPECIFIC** to this control module, and not all of the available Guided Functions are available for all control modules.



ODIS-70

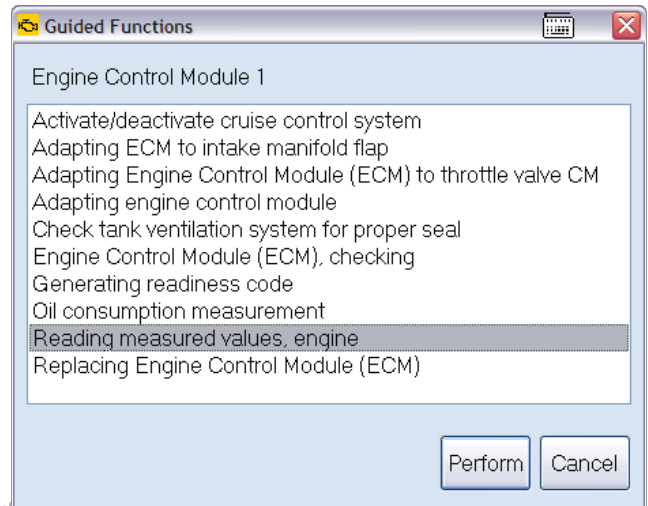
Guided Functions

Continued

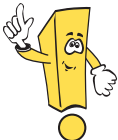
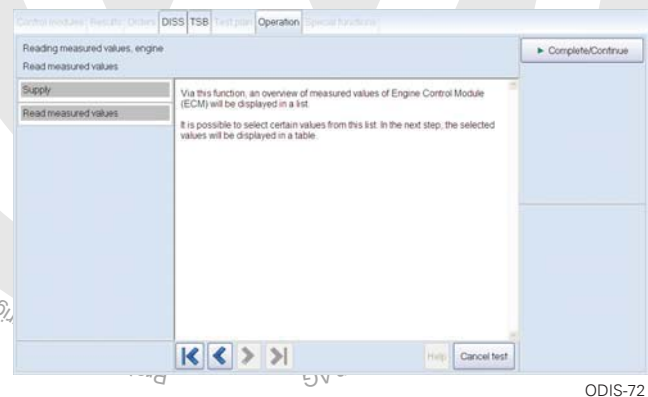
Guided Functions (cont)

Guided Functions

Select the function you want, then select the **Perform** button.



That test plan automatically launches.

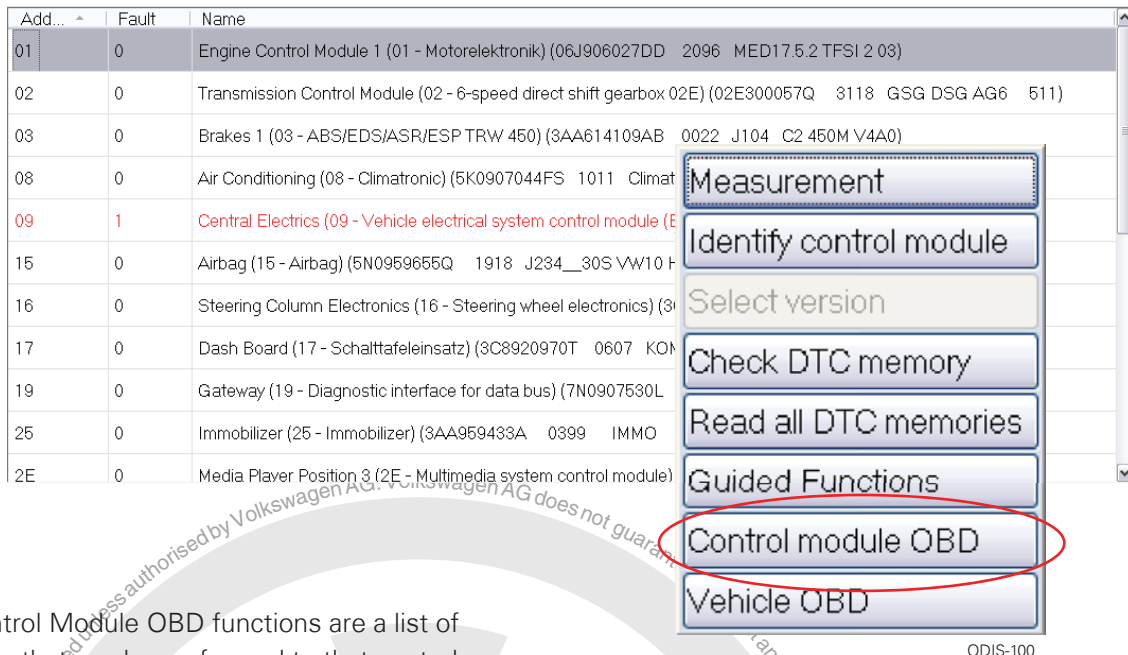


The test plan is not added to your Test Plan list.



Control Module OBD

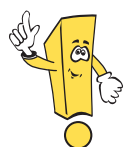
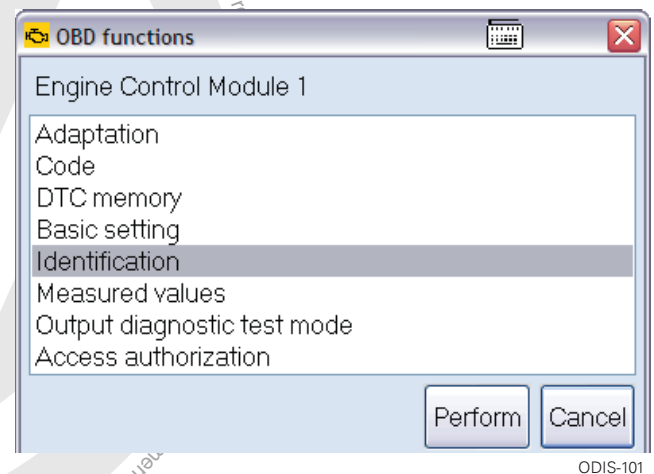
To access Control Module OBD, right click on a control module in any of the Control Module screens. This example shows the Control Modules tab, but the menu can also be accessed from the Network Topology screen by right clicking on a control module.



The Control Module OBD functions are a list of functions that can be performed to that control module. This function is different from the previous OBD operation in VAS-PC

The OBD Functions menu appears. Depending on the control module, different functions may be available.

We've chosen **Identification**.



A Measured Values option is displayed in the OBD functions menu, as shown above. This OBD Function Measured Values interface is difficult to use. Use the Measured Values function located under Guided Functions.

Control Module OBD (cont)

The screen switches to the Results tab. This screen shows the control module part number, coding and software versions.

Control unitsResultsOrdersDISS TPI Test planSequenceSpecial functions

01 - Engine Control Module 1 (KWP2000 / TP20 / 3C0907115S / 0020 / H16)

System ID	Part number	Software version	Workshop code
2.0l R4/4V TFSI	3C0907115S	0020	444 3087 84487

Show extended identification

Refresh

Attribute	Value
VW/Audi part number	3C0907115S
System designation	2.0l R4/4V TFSI
Code	04 04 01 0A 19 07 01 60
Workshop code (hex)	444 3087 84487
Software version	0020
Hardware part number	8P0907115B
Hardware version	H16

01 - ID

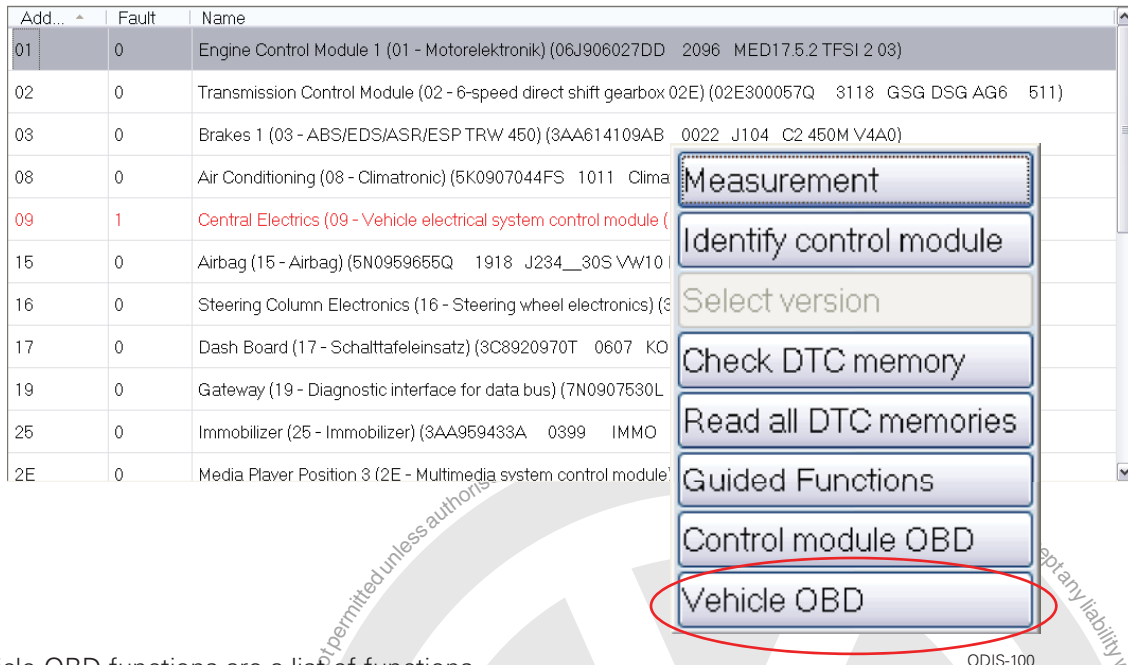
ODIS-102

Control Module OBD



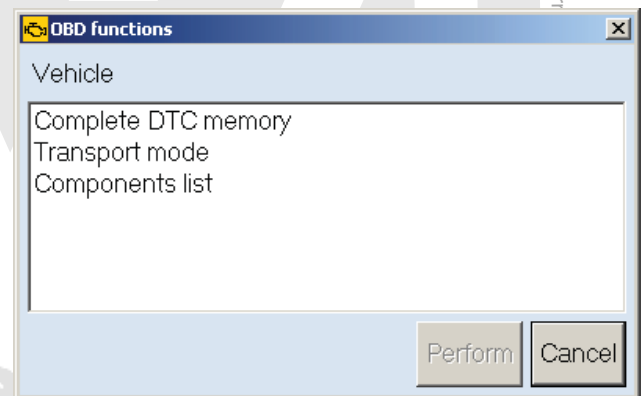
Vehicle OBD

To access Vehicle OBD, right click on a control module in any of the Control Module screens. This example shows the Control Modules tab, but the menu can also be accessed from the Network Topology screen by right clicking on a control module.



The Vehicle OBD functions are a list of functions that can be performed to all control modules in the vehicle.

A menu appears with three options. These three options are covered in the following pages.



Vehicle OBD

Continued

Vehicle OBD Complete DTC Memory

This option checks the DTC memory of the vehicle. This can be helpful to validate that the DTC has been eliminated after a repair.

Vehicle OBD

Control modules	Results	Orders	DISS	TSB	Test plan	Operation	Special functions
Control modules with DTC entries							
Address ^	System	Fault					
19	Gateway (KWP2000 / TP20 / 7N0907530L / 1620 / H41)	0					
01	Engine Control Module 1 (KWP2000 / TP20 / 06J906027DD / 2096 / H04)	0					
02	Transmission Control Module (KWP2000 / TP20 / 02E300057Q / 3118 / 351)	0					
03	Brakes 1 (KWP2000 / TP20 / 3AA614109AB / 0022 / H07)	0					
04	Steering Angle Sender (coded => communication faulty)	OK					
08	Air Conditioning (UDS / ISOTP / 5K0907044FS / 1011 / H17 / EV_Climatronic A01010)	0					
09	Central Electrics (KWP2000 / TP20 / 3AA937087E / 0455 / 413)	1					
15	Airbag (KWP2000 / TP20 / 5N0959655Q / 1918 / 014)	0					
16	Steering Column Electronics (UDS / ISOTP / 3C5953501BG / 0140 / 014 / EV_VW360SteerWheelUDS A03004)	0					
17	Dash Board (UDS / ISOTP / 3C8920970T / 0607 / H04 / EV_Kombi_UDS_VDD_RM09 A04114)	0					
25	Immobilizer (KWP2000 / TP20 / 3AA959433A / 0399 / 042)	0					

Update

Now

Cancel

☐ cyclic

0 s

Erase

Comple

Perform

Total number of DTC entries: 3

01 - ID VEH - ESP

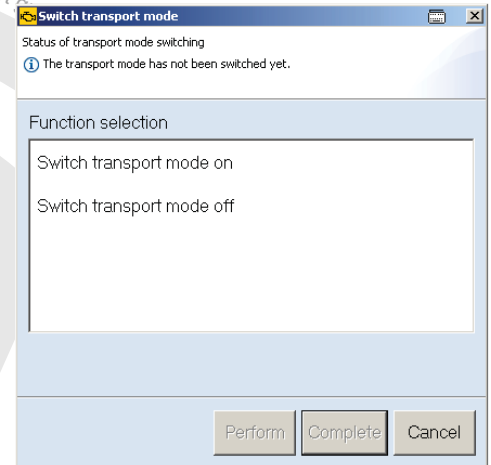
ODIS-80

Indicates a DTC is Present in the System

Continued

Vehicle Self-Diagnosis Transport Mode

This option allows you to take the vehicle out of Transport Mode (and if necessary, put it back into Transport Mode).



ODIS-81

Vehicle OBD Component List

This option lists all control module part numbers and their communication protocol.

Address	System	SB	Fault
19	Gateway (KWP2000 / TP20 / 1K0907530AD / 0112 / H07)	0	0
01	Engine Control Module 1 (KWP2000 / TP20 / 03L906019CM / 6903 / H03)	0	0
02	Transmission Control Module (KWP2000 / TP20 / 02E300052T / 2114 / 51)	0	0
03	Brakes 1 (KWP2000 / TP20 / 1K0907379AJ / 0107 / H30)	0	0
04	Steering Angle Sender (No run time data available.)	OK	0
08	Air Conditioning (UDS / ISOTP / 3C8907336AJ / 0305 / H14 / EV_Climatic A01005)	1	1
09	Central Electrics (KWP2000 / TP20 / 5K0937085G / 0129 / 111)	1	1
15	Airbag (KWP2000 / TP20 / 1K0909605AD / 8900 / 036)	0	0
16	Steering Column Electronics (KWP2000 / TP20 / 1K0953549CD / 0111 / —)	0	0
17	Dash Board (UDS / ISOTP / 5M0920970G / 0305 / H05 / EV_Kombi_UDS_VDD_RM09 A04052)	0	0
1C	Vehicle Position Detection (KWP2000 / TP20 / 1K5919965D / 0001 / 001)	0	0
25	Immobilizer (UDS / ISOTP / 5K0953234 / 0305 / H05 / EV_Immo_UDS_VDD_RM09 A03005)	0	0
42	Door Electronics Driver Side (KWP2000 / TP20 / 1K0959701AC / 1525 / 009)	0	0

02 - ID VEH - ESP VEH - COMP LIST

Communication Protocol

Part Number

ODIS-80a

Vehicle OBD





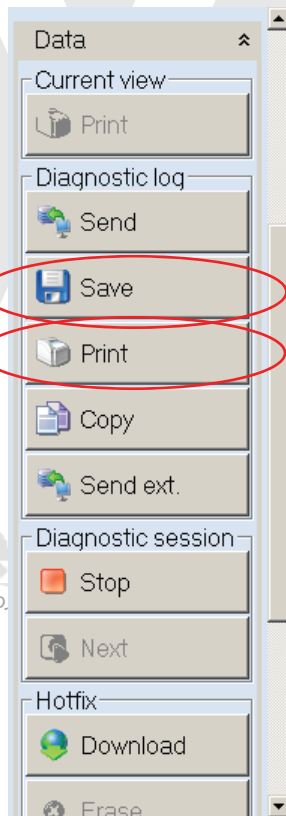
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erWin



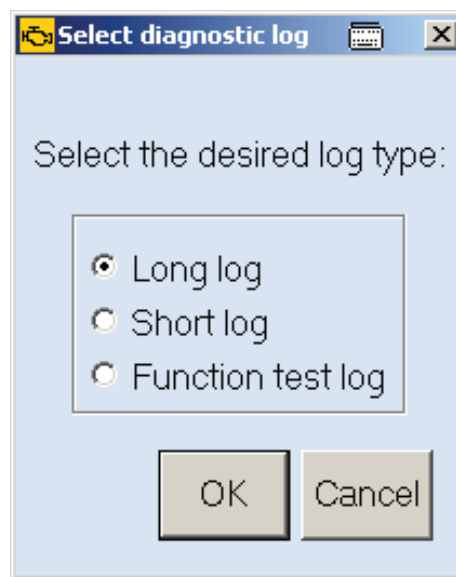
Diagnostic Logs, Printing and Saving

Diagnostic logs can be printed or saved in multiple formats. To begin the process, expand the **Data** section in the Side Menu Area. From here, you can select **Save** or **Print**.



ODIS-83

The menu that appears after selecting either **Print** or **Save** provides three options. Choose your desired option and select **OK**.



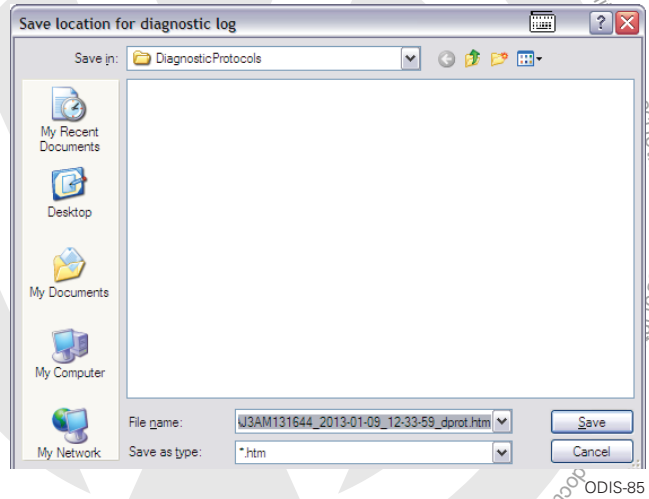
ODIS-84

Continued

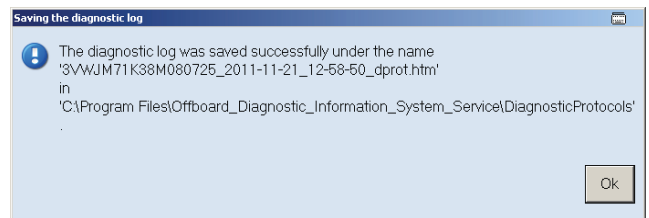
Diagnostic Logs, Printing and Saving (cont)

Diagnostic Logs

If saving to a file, select the correct destination and change the filename (if necessary).



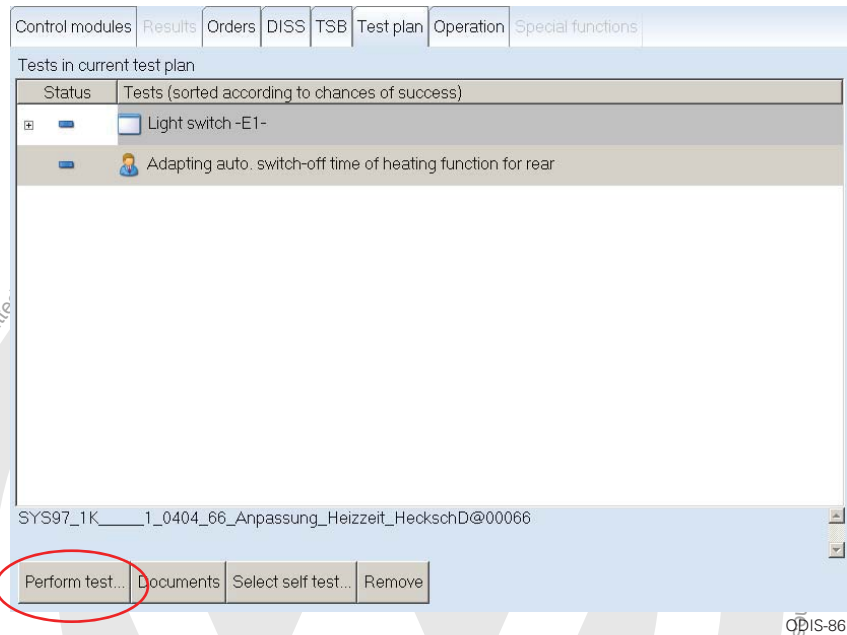
A confirmation window appears with the filename and the destination where the file was saved.



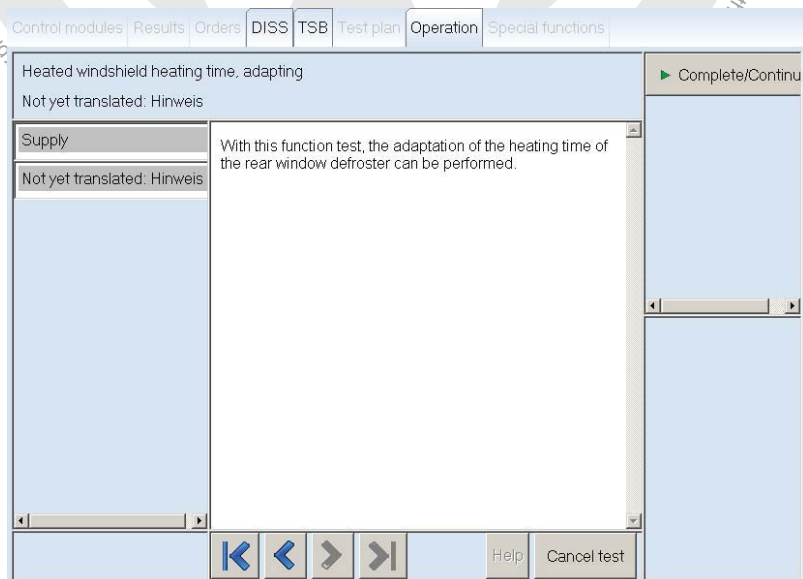
Performing Adaptations

To start, review the Test Plans section to learn how to locate and load test plans. This section assumes you know how to load test plans and that the Adaptation test plan has already been loaded.

With your test plan selected, select **Perform Test** in the lower left of the screen. This test plan is for adapting the heating time of the rear window.



The test plan for running the rear window adaptation will load and run. Follow the test plan to perform the adaptation.

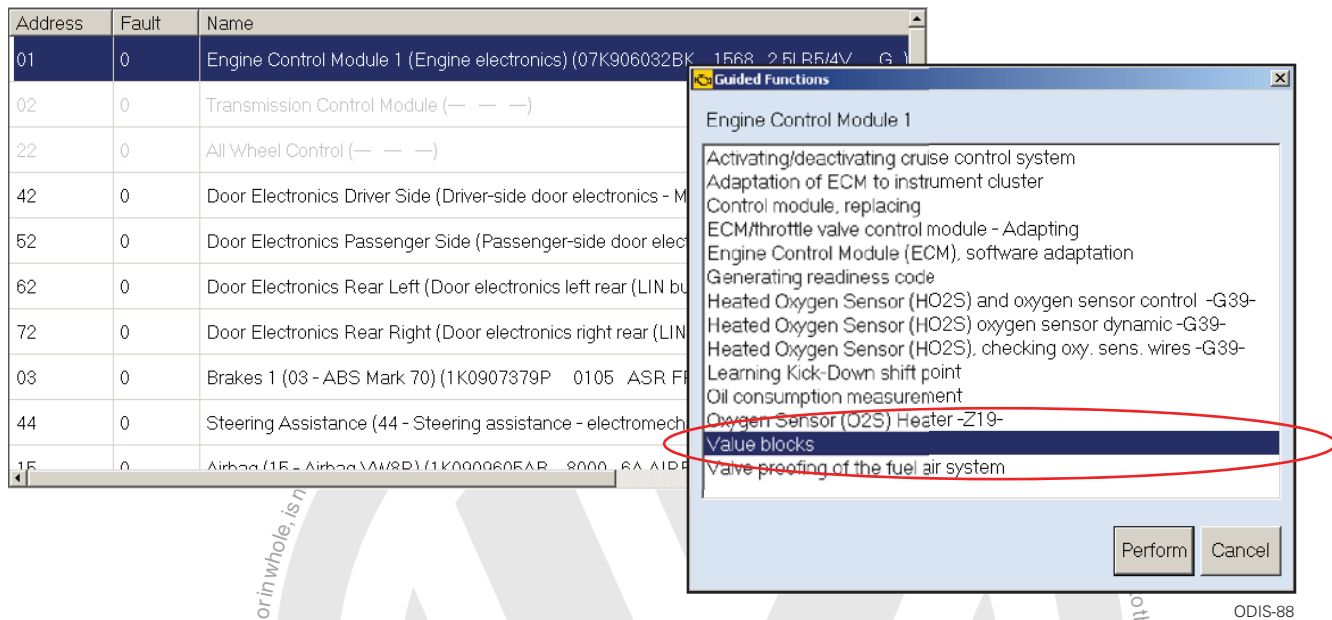




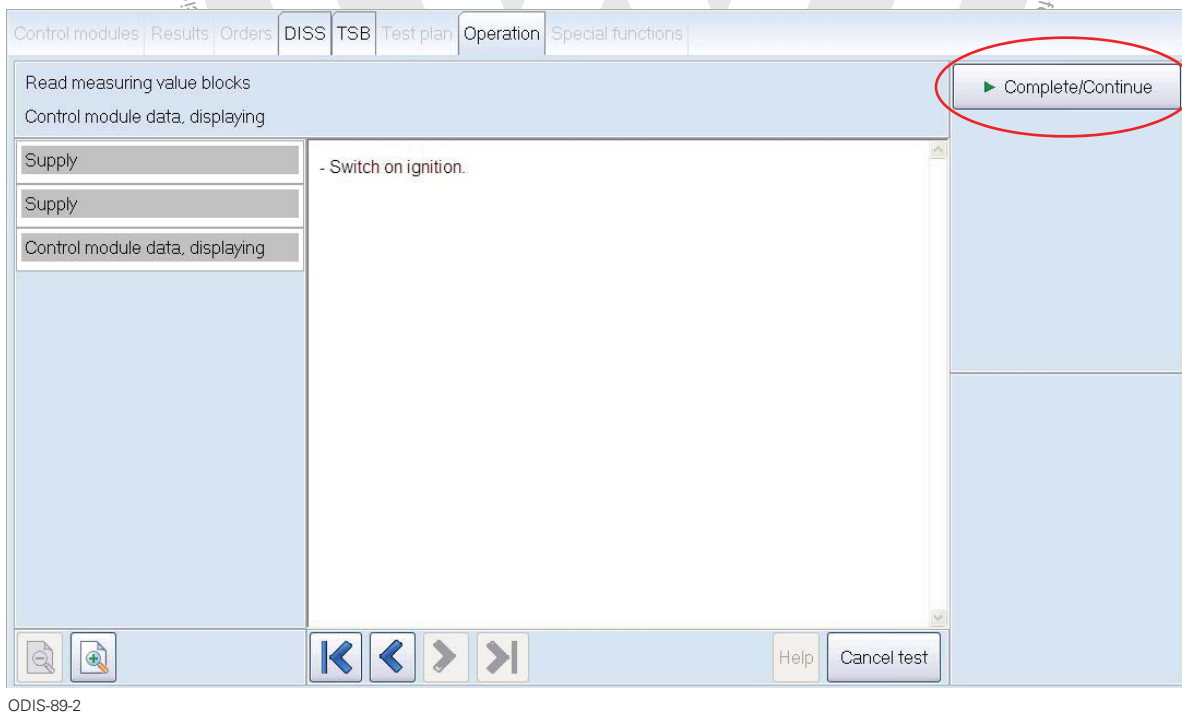
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Measuring Value Blocks

The quickest way to view Measuring Value Blocks for a control module is to right-click on that control module and select **Measured Values**.



The Measuring Value Block GFF test plan launches. Select **Complete/Continue** to continue. Read through the preconditions screens that appear following this screen.

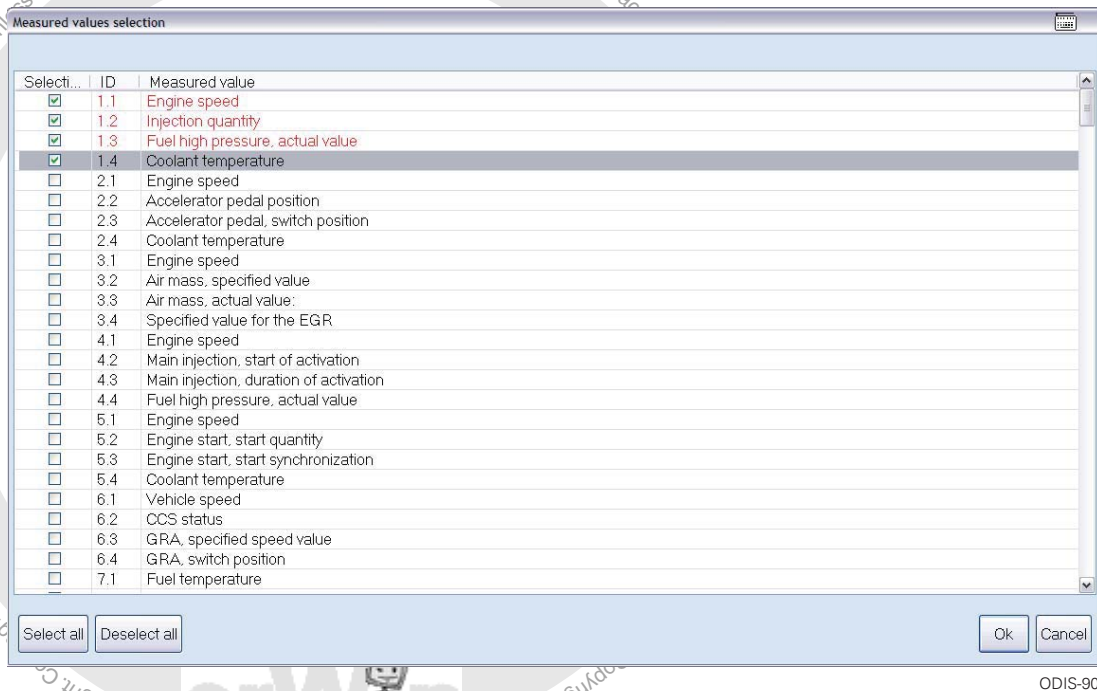


Measuring Value Blocks

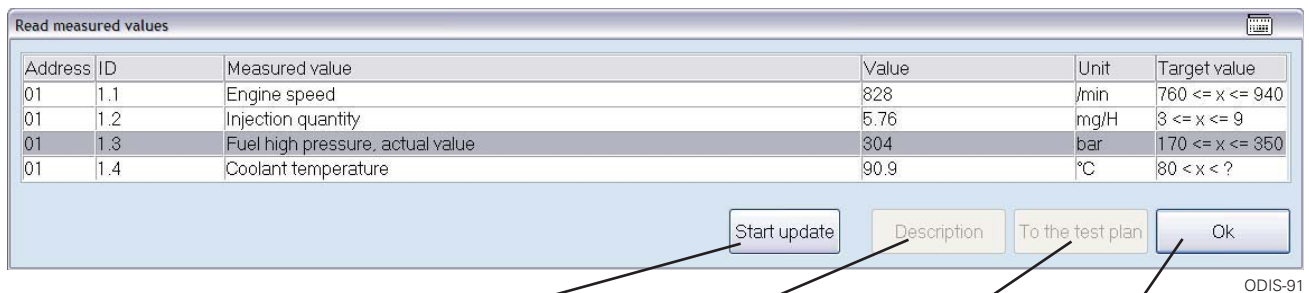
Continued

Measuring Value Blocks (cont)

A window appears that lists all of the available measured values for that control module. Place a checkmark in all values you would like to read, then select OK.



The selected measured values appear in a new window. The **Start Update** button begins a cyclic update of the measured values. The **Description** button provides a description if a single measured value is selected (and if a description is available). The **OK** button exits the Read Measured Values window.



Begins Updating
Measured Values

Provides Description for
Selected Value

Attaches Measured Values
to the Test Plan

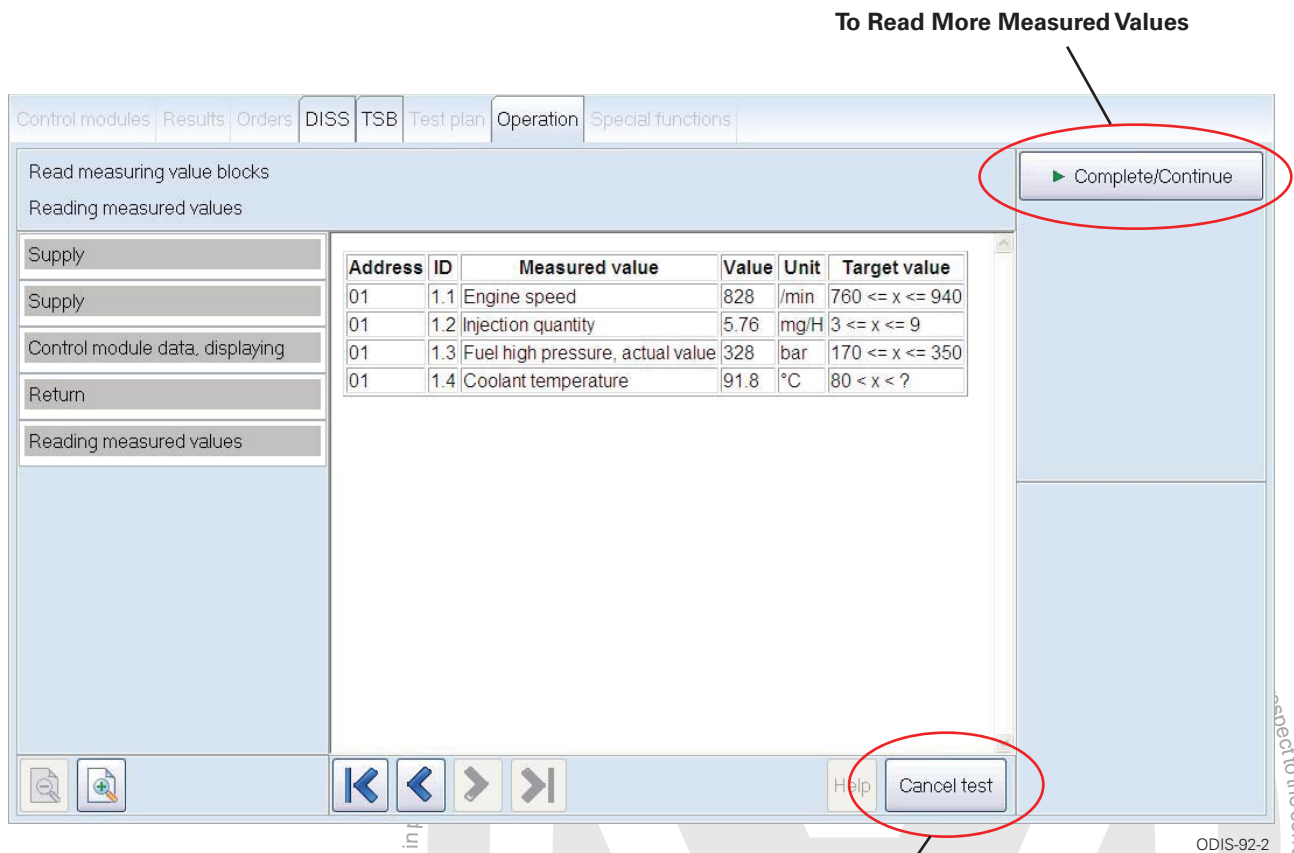
Select when Done to Exit

Continued

Measuring Value Blocks (cont)

After the Read Measured Values window has been closed, the GFF test plan displays a graph of the measured values that were read.

At this point, the test plan can be exited, or more measured values can be read.



Measuring Value Blocks



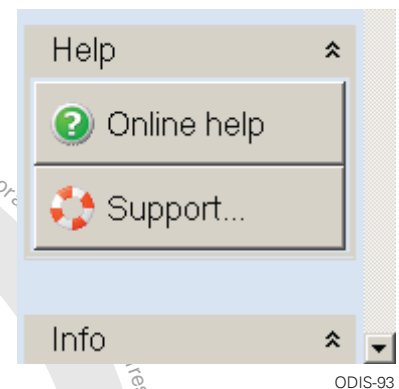
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Support

If you are having difficulty with the ODIS application or the test plans, you can quickly and easily let the developers know about it so that it can be quickly fixed.

First, select **Support** on the right side menu under Help.



When the support window appears, type in your personal information and vehicle brand.

Also, classify your concern. The priority can be left at "For Information."

If you think it would be helpful, you can attach your diagnostic session, and the "Insert Current View" button can be used to place a screenshot into the support window.

When you are all done, select **Send** and your support information will be on its way to helping to improve ODIS.

A screenshot of the 'Send support inquiry' window. The window is divided into several sections. The top left section, titled 'Information about feedback sender', contains fields for 'First name' (John), 'Last name' (Smith), 'E-mail' (Test@mydealer.com), 'Telephone' (555-1234), and a 'Manufacturer' dropdown menu set to 'VW'. The top right section, titled 'Hotline', contains fields for 'Telephone' (+1-888-896-1298) and 'Mail address' (odissupport@vw.com). The bottom left section, titled 'Welcome to Diagnosis', contains a 'Start diagnosis' button. The bottom right section contains a list of 'Error classification' options: 'Hardware error', 'Software error', 'Content error', 'Incorrect translation', and 'Error cannot be classified clearly'. Below this is a 'Priority' section with options: 'For information', 'Limited order editing functions possible', and 'Order editing not possible'. At the bottom of the window are three buttons: 'Insert current view', 'Cancel', and 'Send'. Red circles highlight the 'First name', 'Last name', 'E-mail', 'Telephone', 'Manufacturer', 'Error classification', 'Priority', 'Attach current diagnostic session' checkbox, and the 'Insert current view' button.

Your Information

Classifies
Errors and
Priority

Attaches Your
Diagnostic Session
Information

Inserts Current
ODIS Screen

Support



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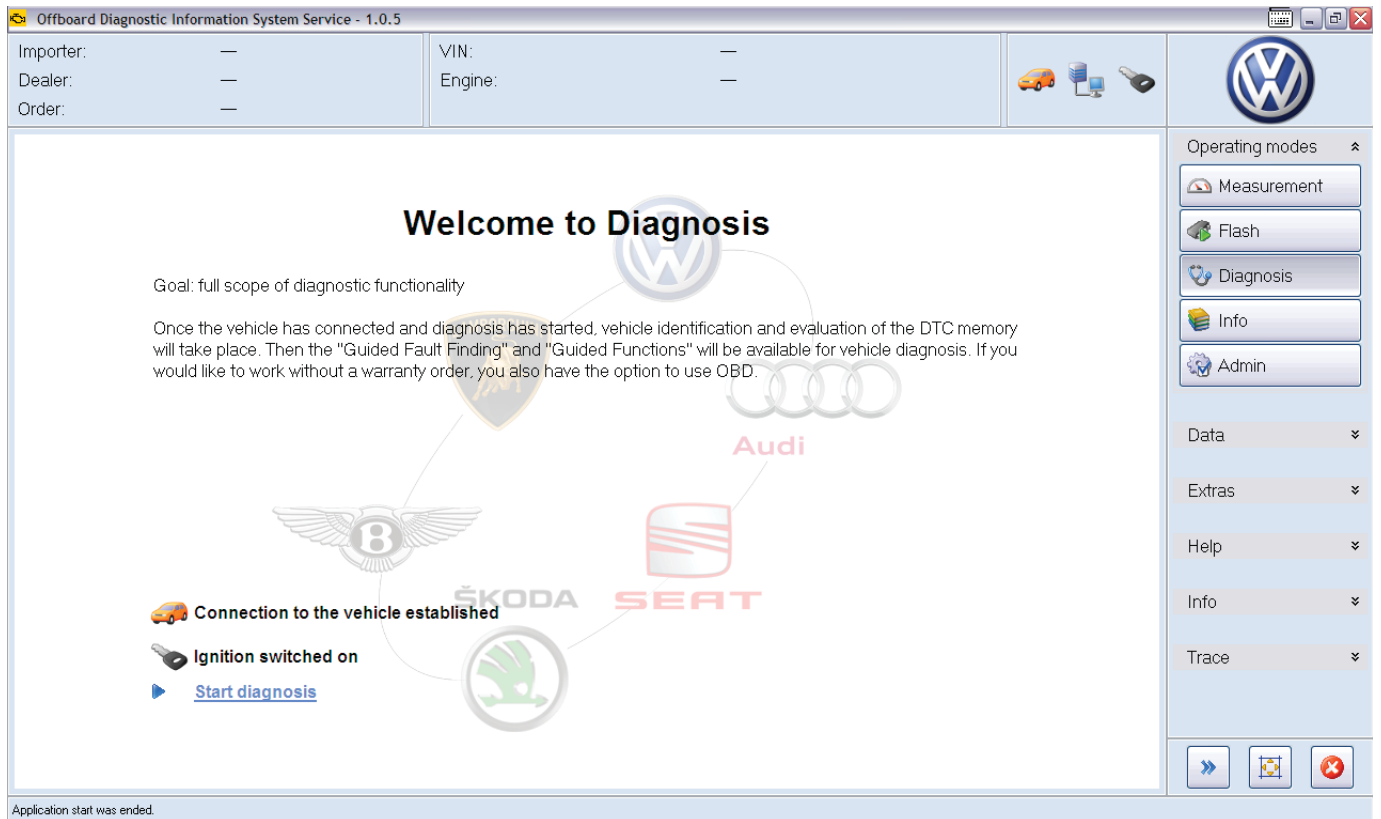


Knowledge Assessment

This Reference Guide does not have a knowledge assessment. It is designed to be use as reference, or in conjunction with the ODIS Service Workbook 810223.

The ODIS Service Workbook 810223 has an assessment of its own that can be found in the Certification Resource Center.





Volkswagen Group of America
2200 Ferdinand Porsche Drive
Herndon, VA 20171
January 2013



Cautions & Warnings

Please read these WARNINGS and CAUTIONS before proceeding with maintenance and repair work. You must answer that you have read and you understand these WARNINGS and CAUTIONS before you will be allowed to view this information.

- If you lack the skills, tools and equipment, or a suitable workshop for any procedure described in this manual, we suggest you leave such repairs to an authorized Volkswagen retailer or other qualified shop. We especially urge you to consult an authorized Volkswagen retailer before beginning repairs on any vehicle that may still be covered wholly or in part by any of the extensive warranties issued by Volkswagen.
- Disconnect the battery negative terminal (ground strap) whenever you work on the fuel system or the electrical system. Do not smoke or work near heaters or other fire hazards. Keep an approved fire extinguisher handy.
- Volkswagen is constantly improving its vehicles and sometimes these changes, both in parts and specifications, are made applicable to earlier models. Therefore, part numbers listed in this manual are for reference only. Always check with your authorized Volkswagen retailer parts department for the latest information.
- Any time the battery has been disconnected on an automatic transmission vehicle, it will be necessary to reestablish Transmission Control Module (TCM) basic settings using the VAG 1551 Scan Tool (ST).
- Never work under a lifted vehicle unless it is solidly supported on stands designed for the purpose. Do not support a vehicle on cinder blocks, hollow tiles or other props that may crumble under continuous load. Never work under a vehicle that is supported solely by a jack. Never work under the vehicle while the engine is running.
- For vehicles equipped with an anti-theft radio, be sure of the correct radio activation code before disconnecting the battery or removing the radio. If the wrong code is entered when the power is restored, the radio may lock up and become inoperable, even if the correct code is used in a later attempt.
- If you are going to work under a vehicle on the ground, make sure that the ground is level. Block the wheels to keep the vehicle from rolling. Disconnect the battery negative terminal (ground strap) to prevent others from starting the vehicle while you are under it.
- Do not attempt to work on your vehicle if you do not feel well. You increase the danger of injury to yourself and others if you are tired, upset or have taken medicine or any other substances that may impair you or keep you from being fully alert.
- Never run the engine unless the work area is well ventilated. Carbon monoxide (CO) kills.
- Always observe good workshop practices. Wear goggles when you operate machine tools or work with acid. Wear goggles, gloves and other protective clothing whenever the job requires working with harmful substances.
- Tie long hair behind your head. Do not wear a necktie, a scarf, loose clothing, or a necklace when you work near machine tools or running engines. If your hair, clothing, or jewelry were to get caught in the machinery, severe injury could result.
- Do not re-use any fasteners that are worn or deformed in normal use. Some fasteners are designed to be used only once and are unreliable and may fail if used a second time. This includes, but is not limited to, nuts, bolts, washers, circlips and cotter pins. Always follow the recommendations in this manual - replace these fasteners with new parts where indicated, and any other time it is deemed necessary by inspection.

Cautions & Warnings

- Illuminate the work area adequately but safely. Use a portable safety light for working inside or under the vehicle. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.
- Friction materials such as brake pads and clutch discs may contain asbestos fibers. Do not create dust by grinding, sanding, or by cleaning with compressed air. Avoid breathing asbestos fibers and asbestos dust. Breathing asbestos can cause serious diseases such as asbestosis or cancer, and may result in death.
- Finger rings should be removed so that they cannot cause electrical shorts, get caught in running machinery, or be crushed by heavy parts.
- Before starting a job, make certain that you have all the necessary tools and parts on hand. Read all the instructions thoroughly; do not attempt shortcuts. Use tools that are appropriate to the work and use only replacement parts meeting Volkswagen specifications. Makeshift tools, parts and procedures will not make good repairs.
- Catch draining fuel, oil or brake fluid in suitable containers. Do not use empty food or beverage containers that might mislead someone into drinking from them. Store flammable fluids away from fire hazards. Wipe up spills at once, but do not store the oily rags, which can ignite and burn spontaneously.
- Use pneumatic and electric tools only to loosen threaded parts and fasteners. Never use these tools to tighten fasteners, especially on light alloy parts. Always use a torque wrench to tighten fasteners to the tightening torque listed.
- Keep sparks, lighted matches, and open flame away from the top of the battery. If escaping hydrogen gas is ignited, it will ignite gas trapped in the cells and cause the battery to explode.
- Be mindful of the environment and ecology. Before you drain the crankcase, find out the proper way to dispose of the oil. Do not pour oil onto the ground, down a drain, or into a stream, pond, or lake. Consult local ordinances that govern the disposal of wastes.
- The air-conditioning (A/C) system is filled with a chemical refrigerant that is hazardous. The A/C system should be serviced only by trained automotive service technicians using approved refrigerant recovery/recycling equipment, trained in related safety precautions, and familiar with regulations governing the discharging and disposal of automotive chemical refrigerants.
- Before doing any electrical welding on vehicles equipped with anti-lock brakes (ABS), disconnect the battery negative terminal (ground strap) and the ABS control module connector.
- Do not expose any part of the A/C system to high temperatures such as open flame. Excessive heat will increase system pressure and may cause the system to burst.
- When boost-charging the battery, first remove the fuses for the Engine Control Module (ECM), the Transmission Control Module (TCM), the ABS control module, and the trip computer. In cases where one or more of these components is not separately fused, disconnect the control module connector(s).
- Some of the vehicles covered by this manual are equipped with a supplemental restraint system (SRS), that automatically deploys an airbag in the event of a frontal impact. The airbag is operated by an explosive device. Handled improperly or without adequate safeguards, it can be accidentally activated and cause serious personal injury. To guard against personal injury or airbag system failure, only trained Volkswagen Service technicians should test, disassemble or service the airbag system.

Cautions & Warnings

- Do not quick-charge the battery (for boost starting) for longer than one minute, and do not exceed 16.5 volts at the battery with the boosting cables attached. Wait at least one minute before boosting the battery a second time.
- Never use a test light to conduct electrical tests of the airbag system. The system must only be tested by trained Volkswagen Service technicians using the VAG 1551 Scan Tool (ST) or an approved equivalent. The airbag unit must never be electrically tested while it is not installed in the vehicle.
- Some aerosol tire inflators are highly flammable. Be extremely cautious when repairing a tire that may have been inflated using an aerosol tire inflator. Keep sparks, open flame or other sources of ignition away from the tire repair area. Inflate and deflate the tire at least four times before breaking the bead from the rim. Completely remove the tire from the rim before attempting any repair.
- When driving or riding in an airbag-equipped vehicle, never hold test equipment in your hands or lap while the vehicle is in motion. Objects between you and the airbag can increase the risk of injury in an accident.

I have read and I understand these Cautions and Warnings.

