Reference Guide 910123

Offboard Diagnostic Information System (ODIS Service)

Audi Academy

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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.

This information will not be updated.

Reference

Note

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Introduction

The Offboard Diagnostic Information System (ODIS Service) 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.

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ODIS-1

Introduction

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

As with any computer program, practicing is the best way to learn. Use these Job Aids if you have questions.

The ODIS interface has its own User Guide. The Job Aids in this booklet are not intended to replace it. These Job Aids are designed to help technicians get started quickly. If you want more detailed information, consult the User Guide in the ODIS interface.

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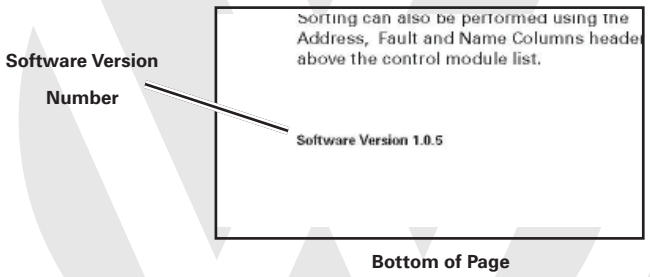
This Reference Guide only covers the ODIS software version shown inside the cover, which is also shown on the bottom of each page. As with any software program, there will be updates and changes. If you are using a version of ODIS software that is different than the version shown in this Reference Guide,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



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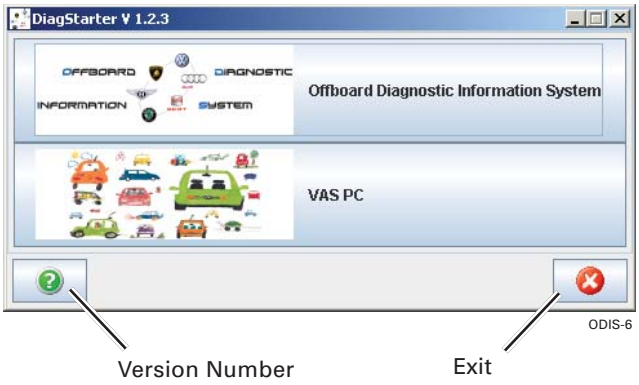
There are many buttons that can be selected when using ODIS. Button pushes will be represented in the Reference Guide text surrounded by angle brackets, ex. <Button>.

Starting 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



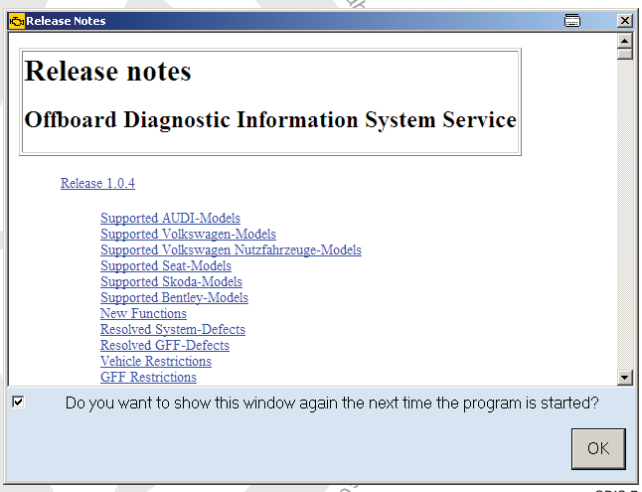
ODIS-6

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 hyper-link 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.



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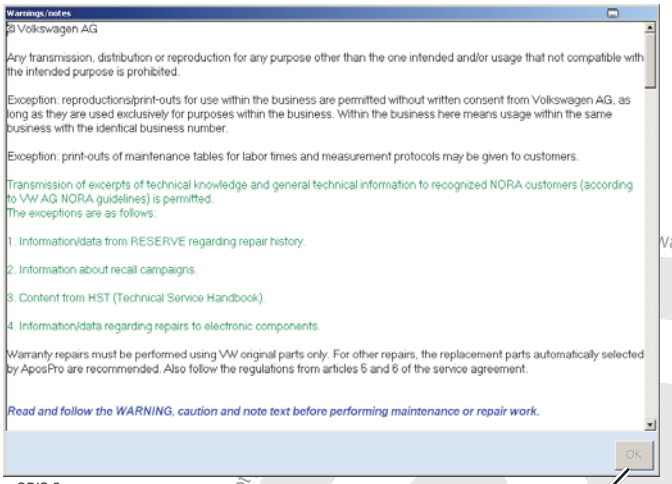
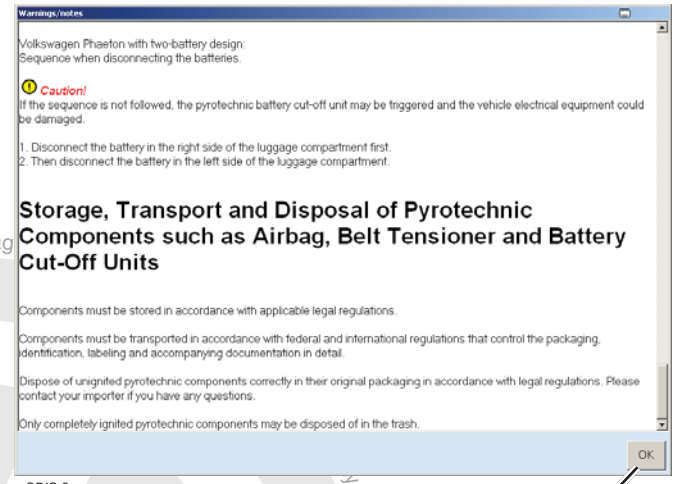
Starting ODIS

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

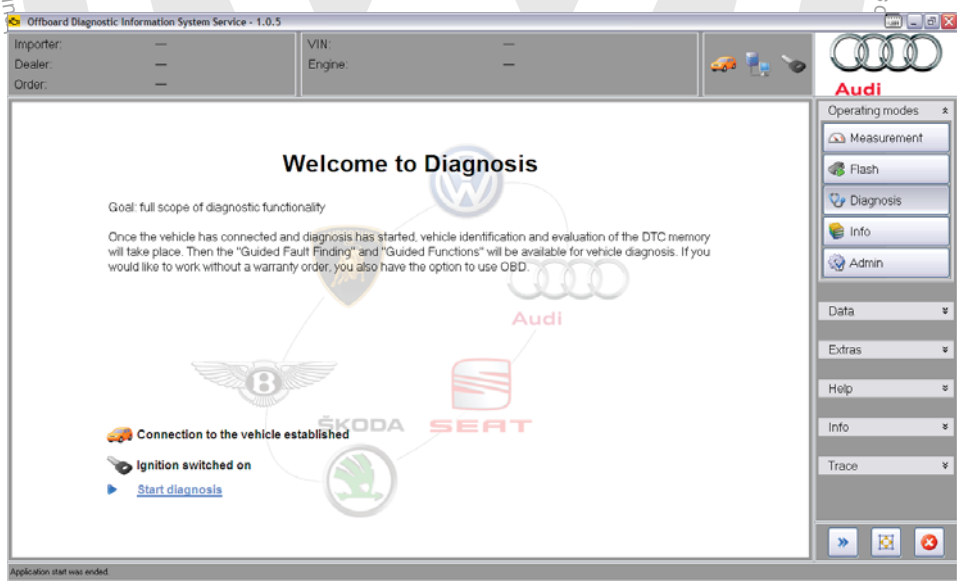


ODIS-9

Grayed-Out Button

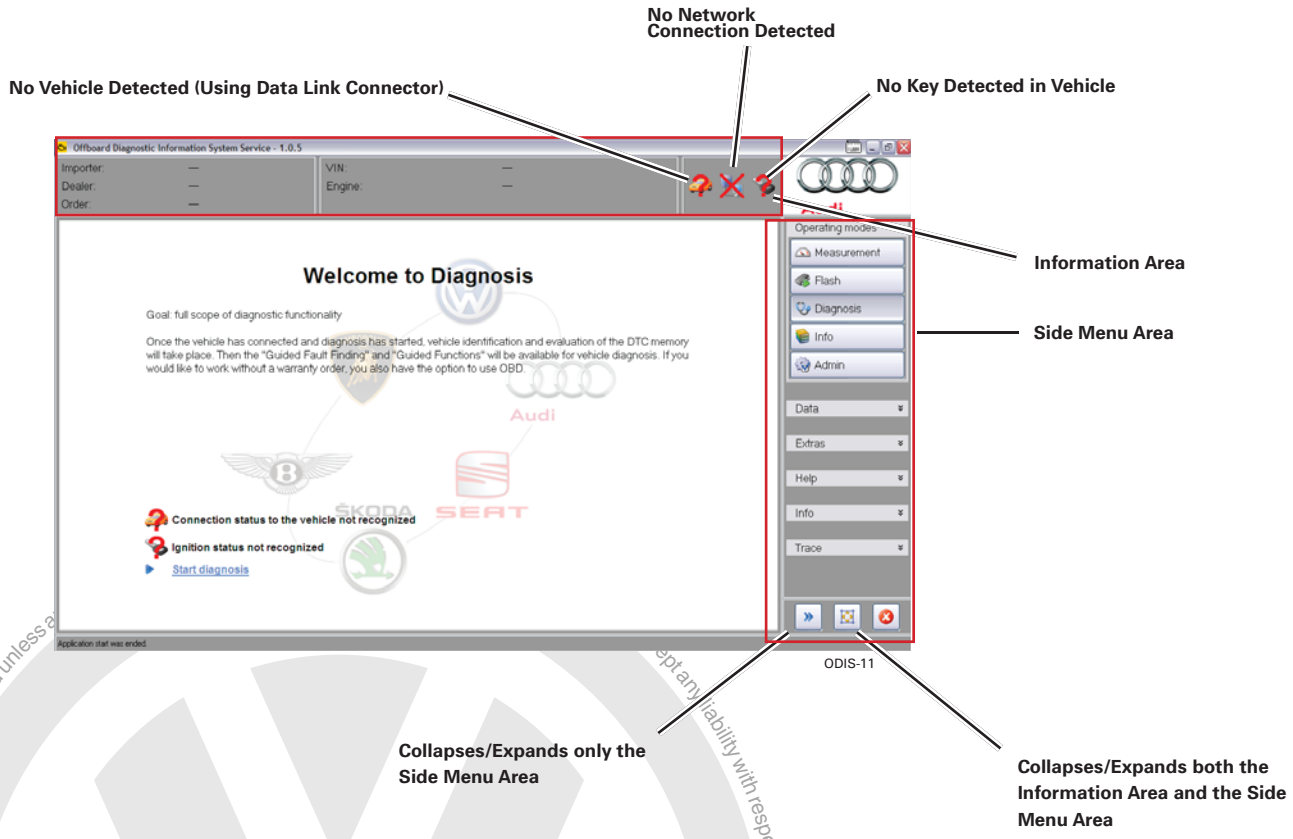
Active Button

You have arrived at the ODIS main screen.



ODIS-10

The ODIS Window



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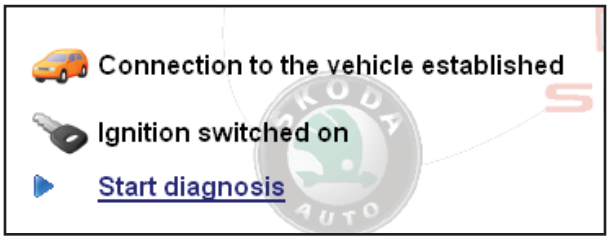
Launching Guided Fault Finding (GFF)

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.

ODIS-13

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

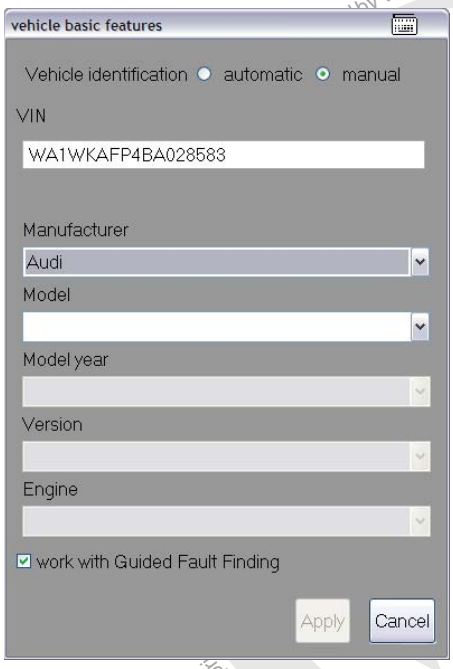


ODIS-14

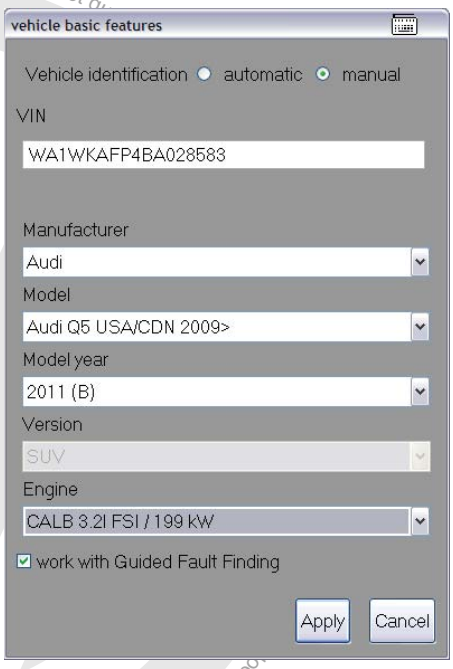
A Vehicle Identification window appears with the Vehicle Identification Number (VIN) already in place. The top of this window has Automatic or Manual Vehicle Identification selections. If you choose Automatic, CAREFULLY review the information that is automatically inserted to make sure the vehicle and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



ODIS-15



ODIS-16

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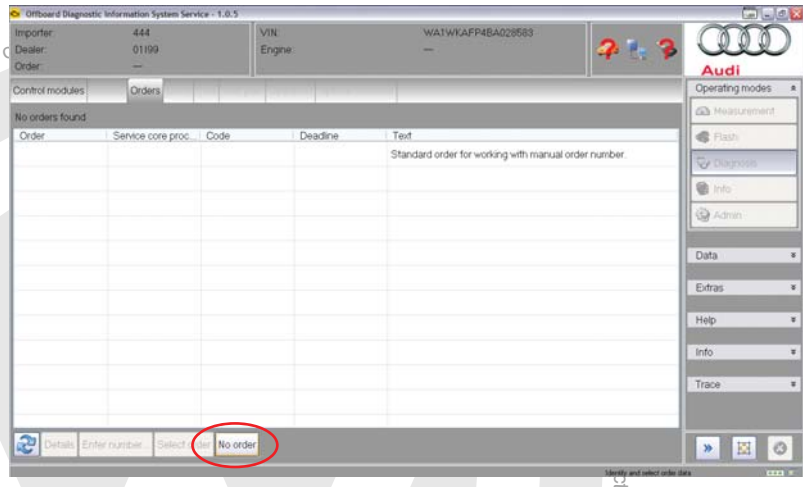
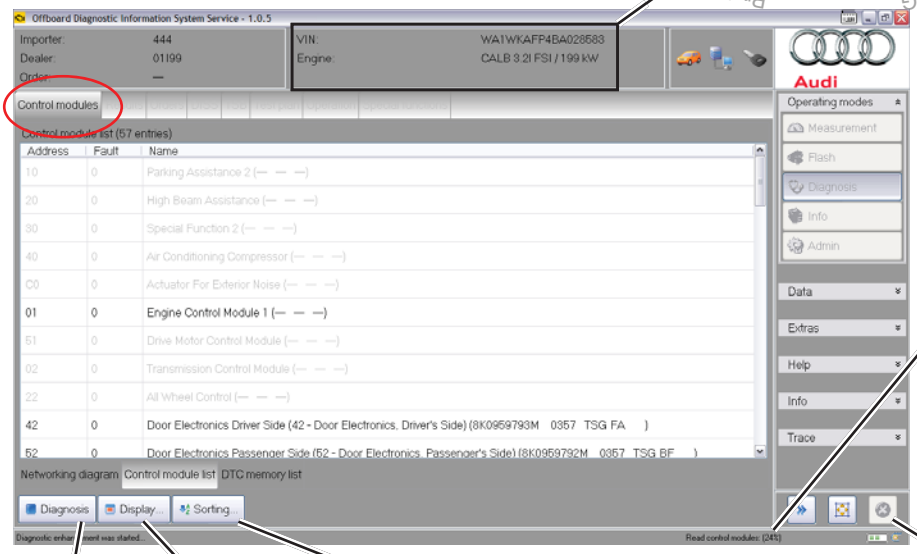
Launching Guided Fault Finding

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.



ODIS-18

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.



ODIS-19

Vehicle Identification

Read control modules: (24%)

ODIS-20

Control Module Scanning Progress

Diagnostic Options

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

Control Module Sorting Options (repair group, etc.)

End Diagnostic Session

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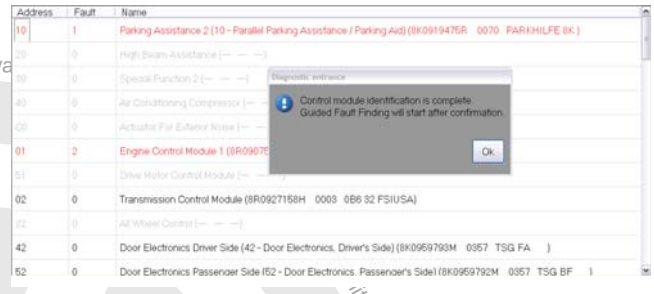
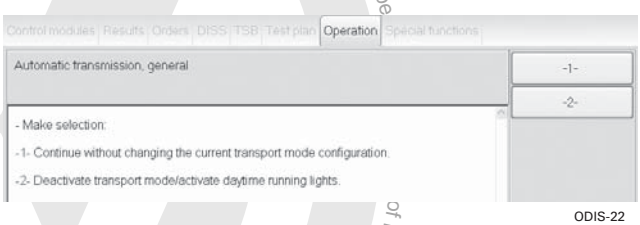
Launching Guided Fault Finding

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.

1

ODIS-23

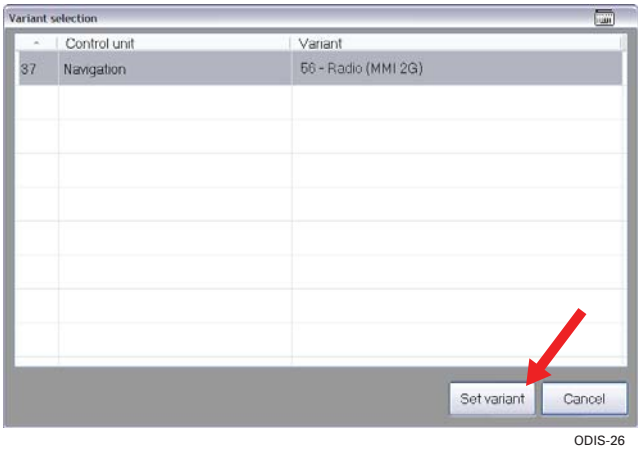
2

ODIS-24

3

ODIS-25

4



ODIS-26

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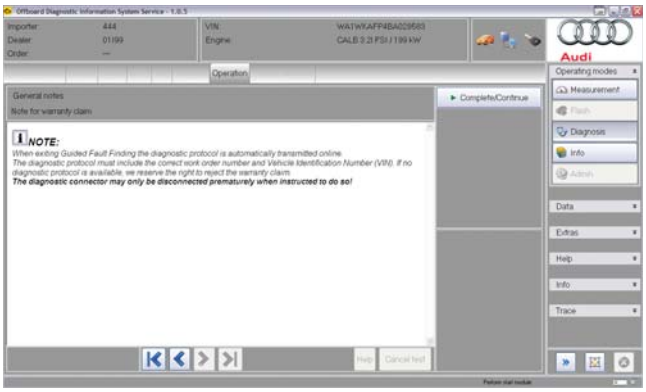
Launching Guided Fault Finding

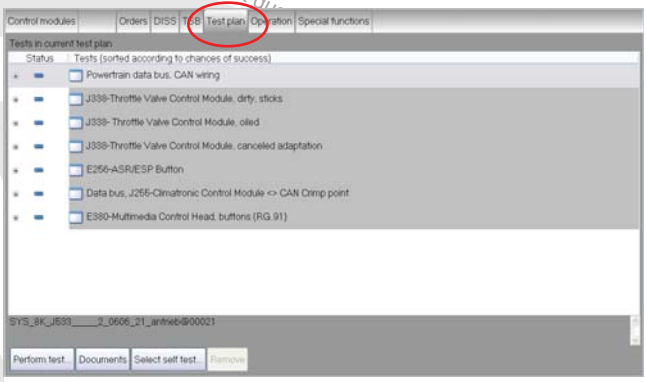
After completing the Variant screens, the GFF test plan continues. There may be a couple of screens regarding warranty, diagnostic protocol and ElsaWeb.

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:



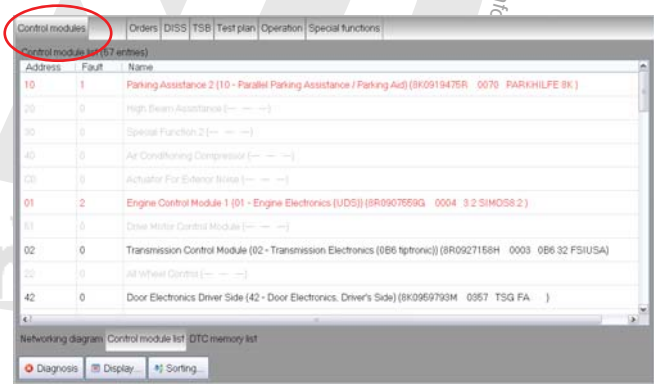
ODIS-28

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.

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

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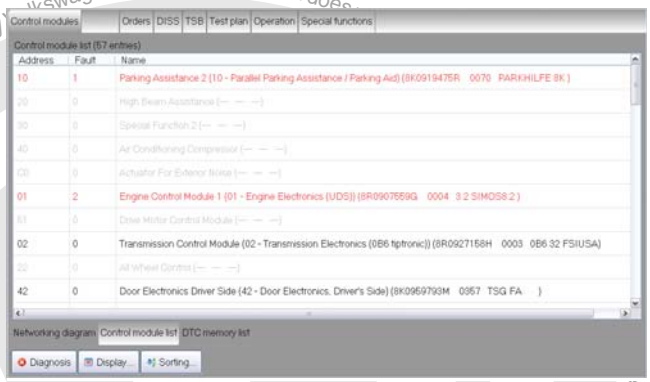
Control Module Tab Tips

Control Modules Tab:

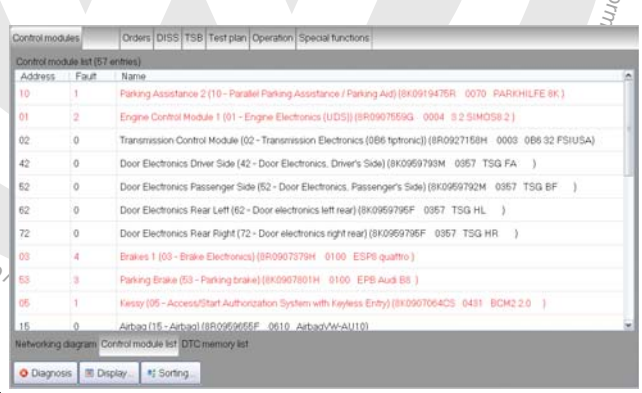
When you select the Control Modules tab, the default screen shows the Control Module List. Notice that there are grayed-out control modules. These are control modules that may not be present on your vehicle, depending on options. Note: If an installed control module is not communicating with the Gateway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



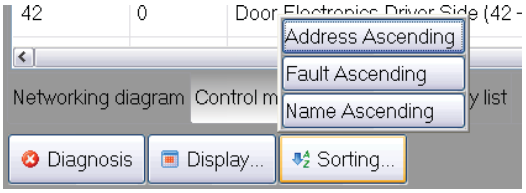
ODIS-29

ODIS-31

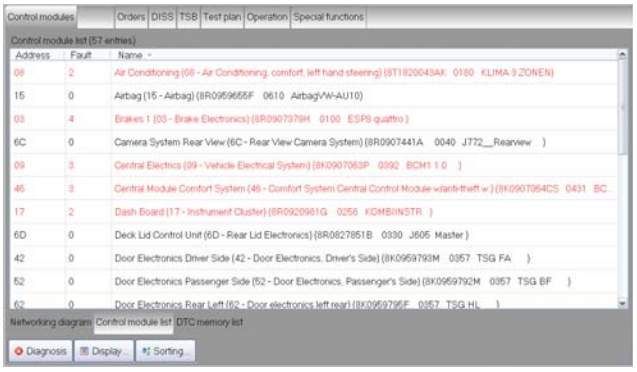


ODIS-32

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



ODIS-33



ODIS-34

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

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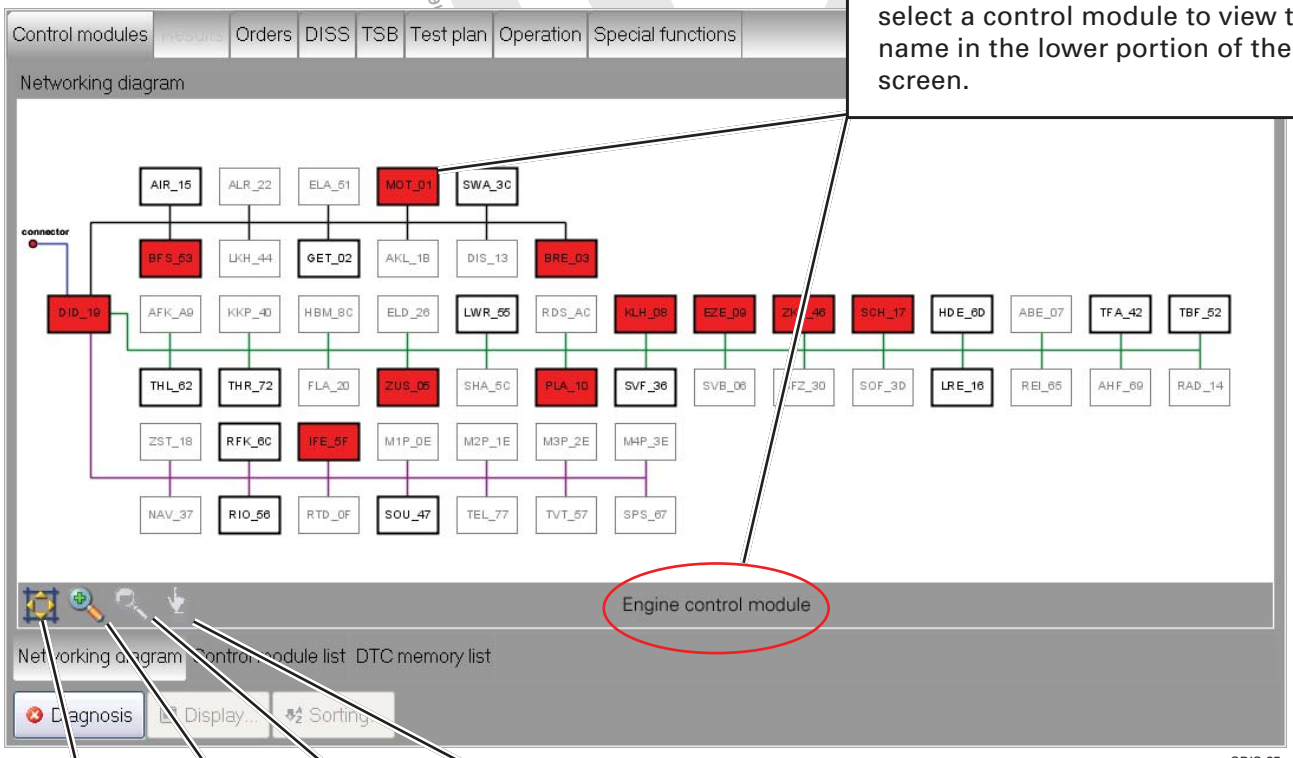
Control Module Tab Tips

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

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

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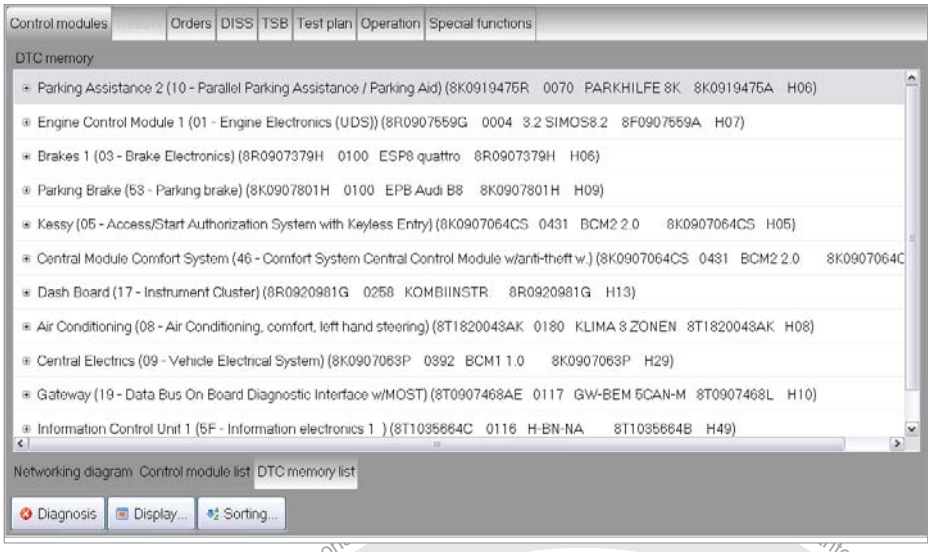
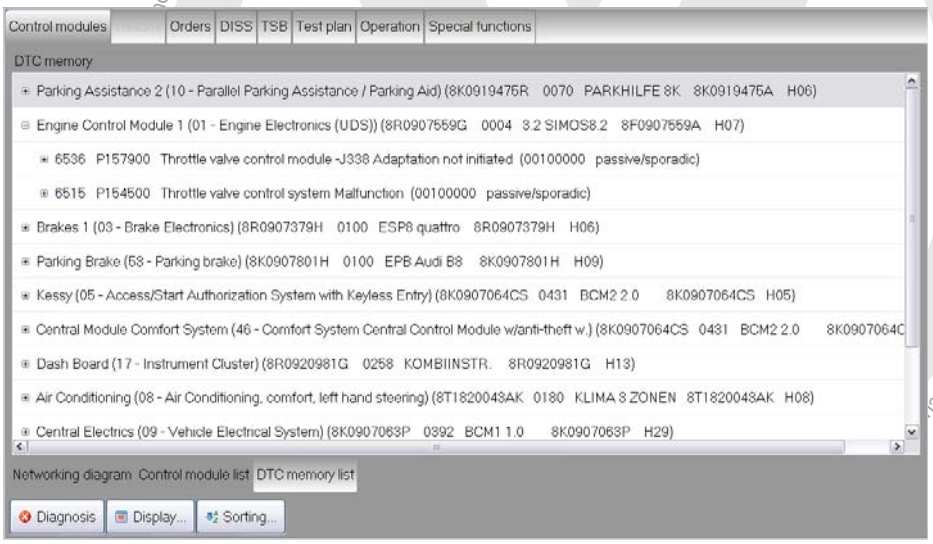
Viewing DTCs

After launching GFF:



ODIS-36

Select the <DTC memory list> lower tab.



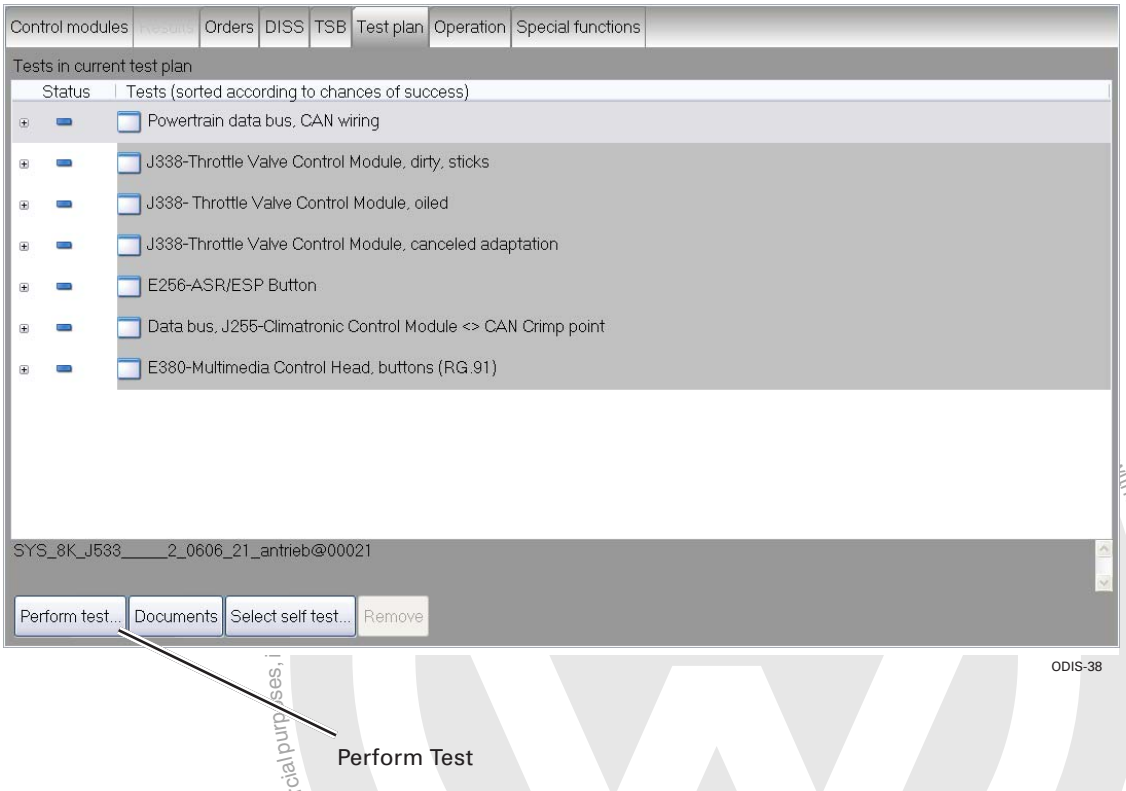
ODIS-37

Click on the “+” symbol to expand the control module information and show its DTC’s.

Notes

Launching Test Plans

Select the <Test plan> tab.



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

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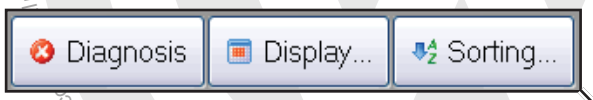
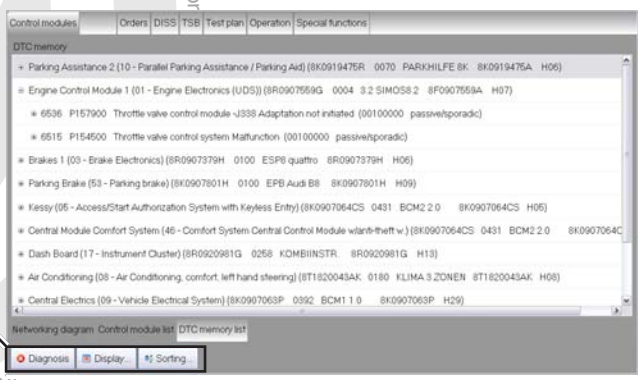
Erasing DTCs

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.

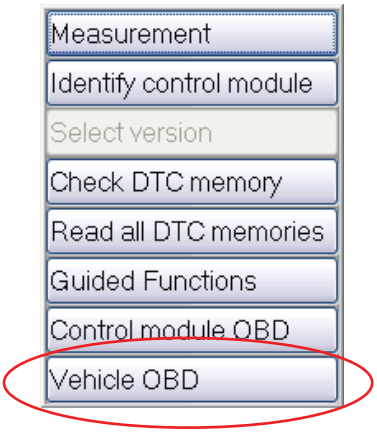


ODIS-40



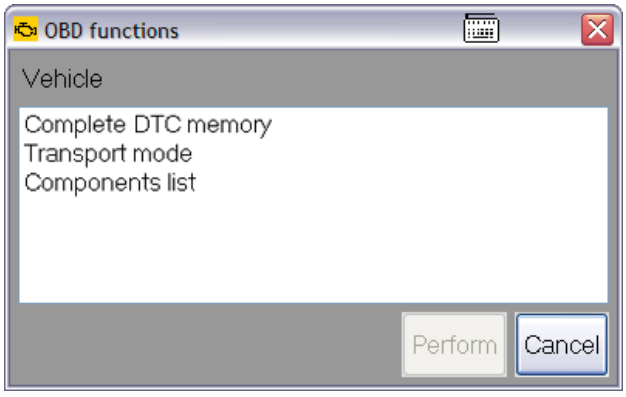
ODIS-39

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



ODIS-41

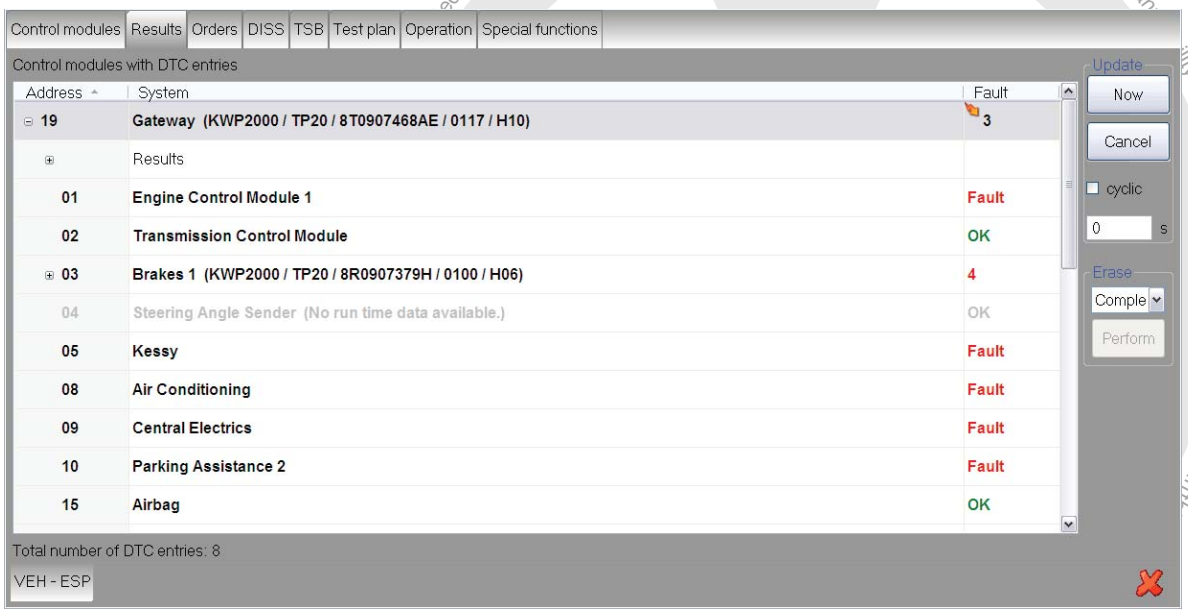
Select <Complete DTC memory>, then <Perform>.



ODIS-79

Erasing DTCs

This takes you to the <Results> 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.



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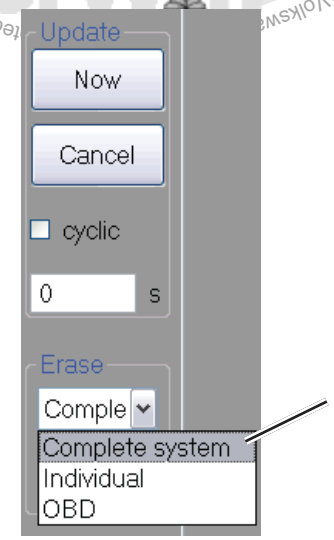
You can now chose <Erase> and select to erase either the Complete System or Individual. At the time of this printing, either choice would erase ALL DTCs in all control modules.



Complete System/ Individual Selection

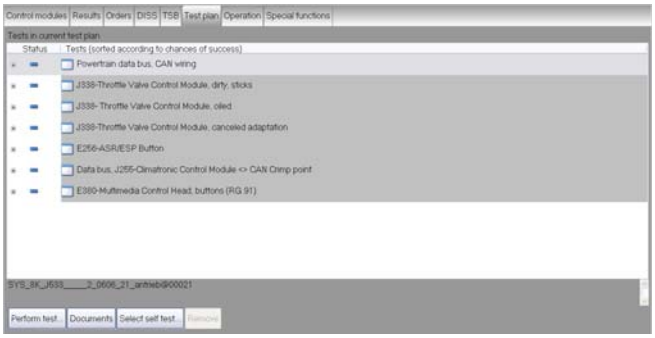
ODIS-44

Note

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 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.



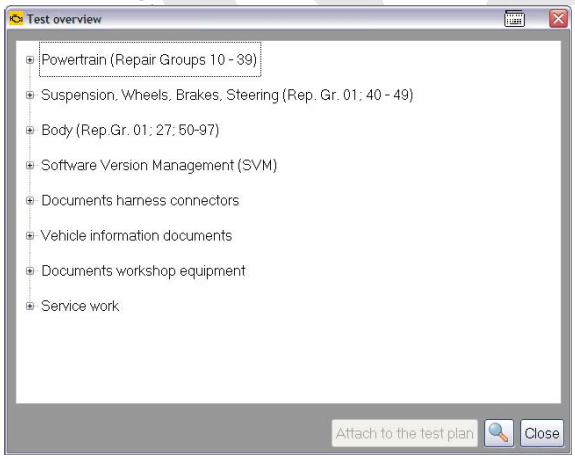
ODIS-45

Select <Select self test> from the lower tabs.

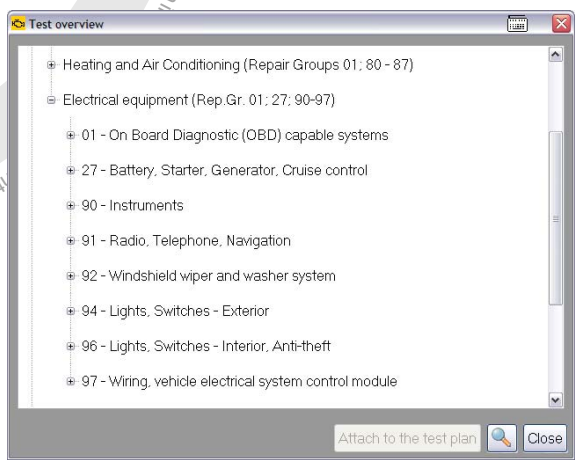
ODIS-46

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 similar to the Function/Component Selection area in VAS-PC.



ODIS-47



ODIS-48

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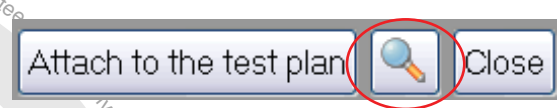
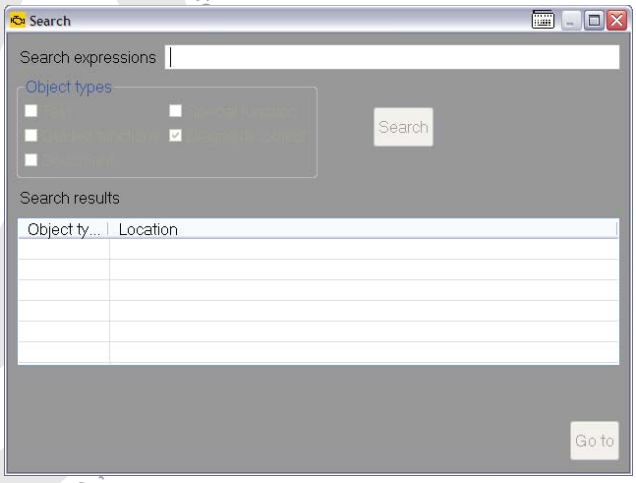
Selecting Test Plans

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



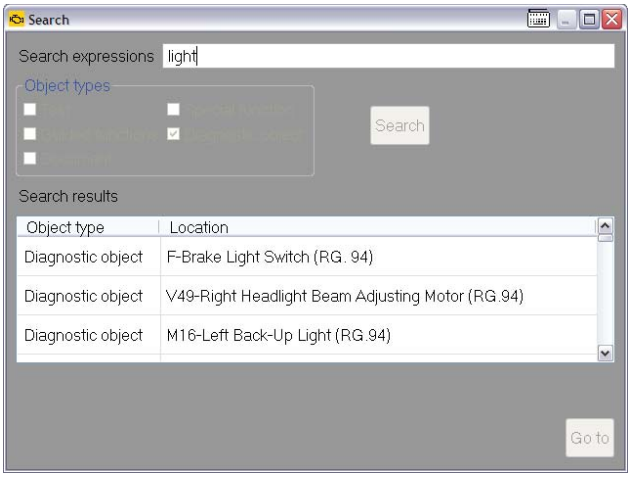
ODIS-49

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

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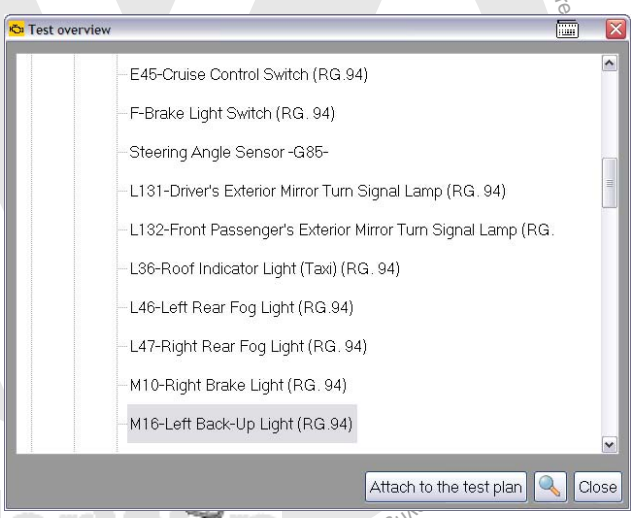
Selecting Test Plans

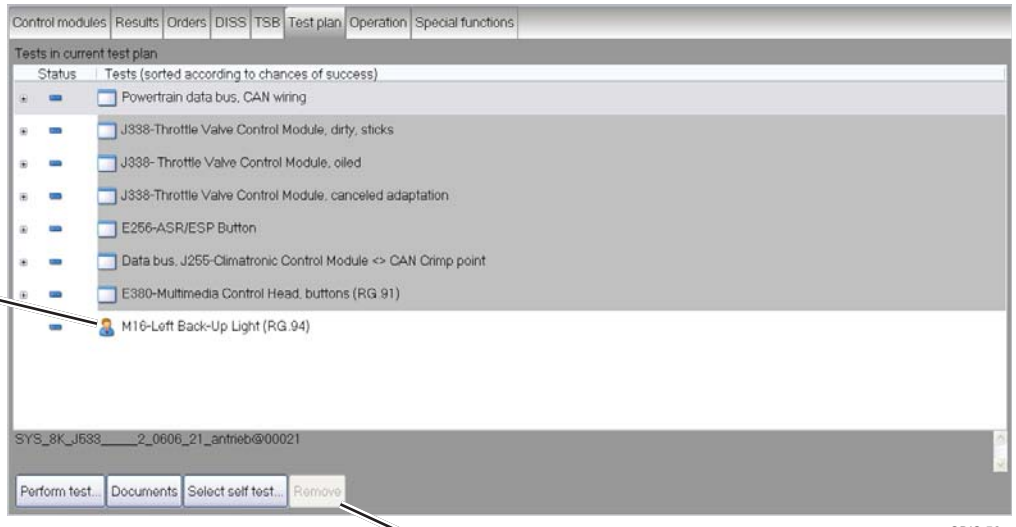
When you select a test plan from the search feature, you are directed to that test plan in the Test Overview menu structure. This test plan can now be attached using the <Attach to test plan> button.



ODIS-52

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.



ODIS-53

User-Loaded Icon

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

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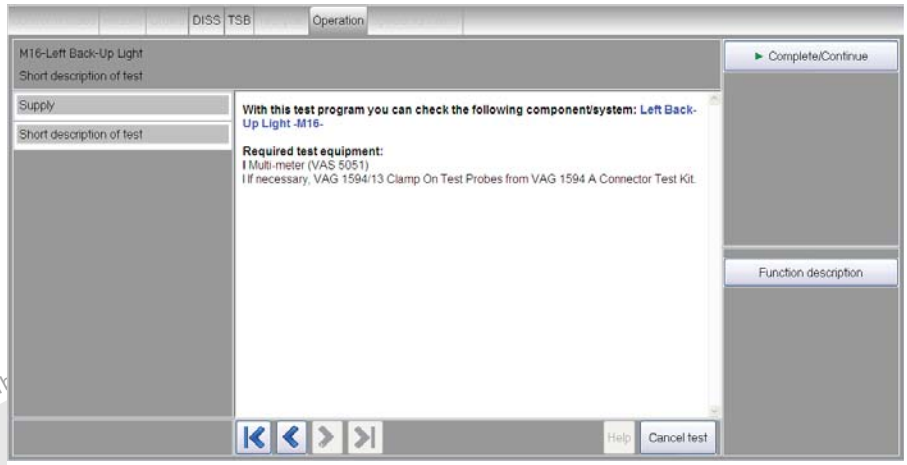
Notes

GFF Test Plan Tips

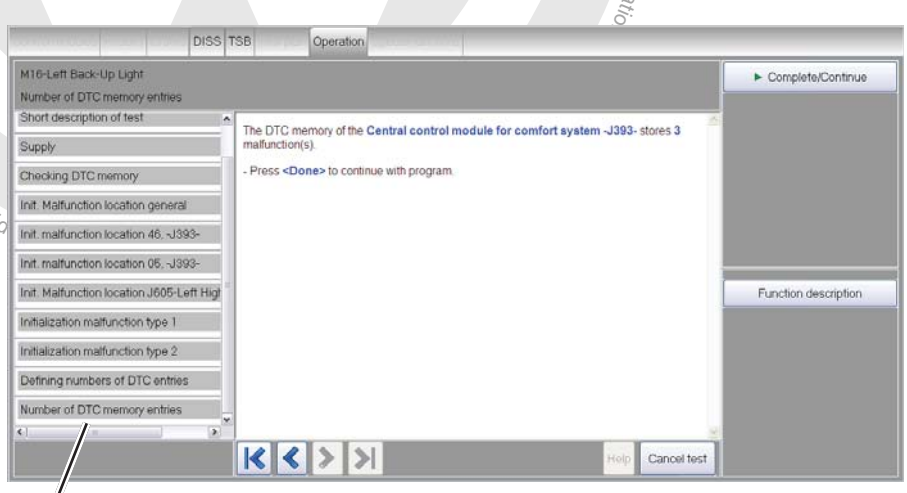
After you have selected a test plan to run, the upper tab changes to Operation. This test plan window displays the GFF test that is currently running.



ODIS-54

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.



ODIS-55

Test Plan Steps
Already Performed

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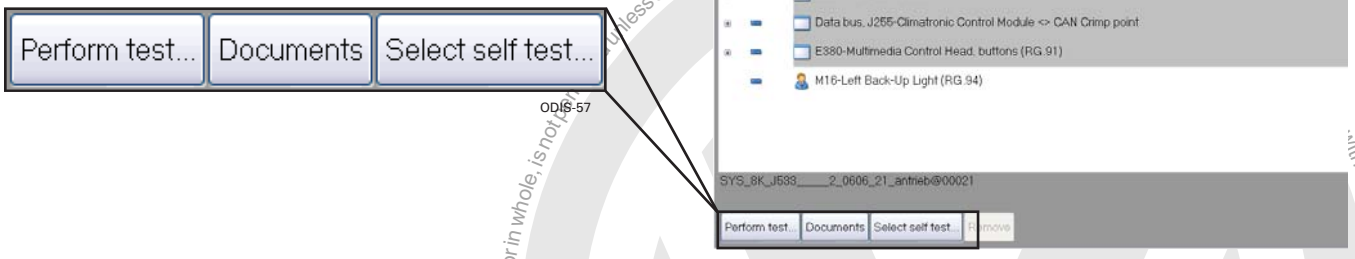
Documents

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

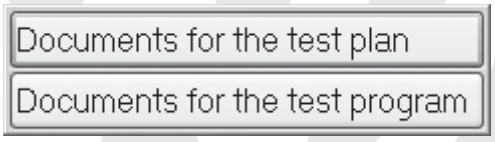
Documents are available in the test plans, but can also be accessed under the <Test plan> upper tab.



ODIS-57

ODIS-56

<Documents for the test plan> or <Documents test program> can be selected.



ODIS-58

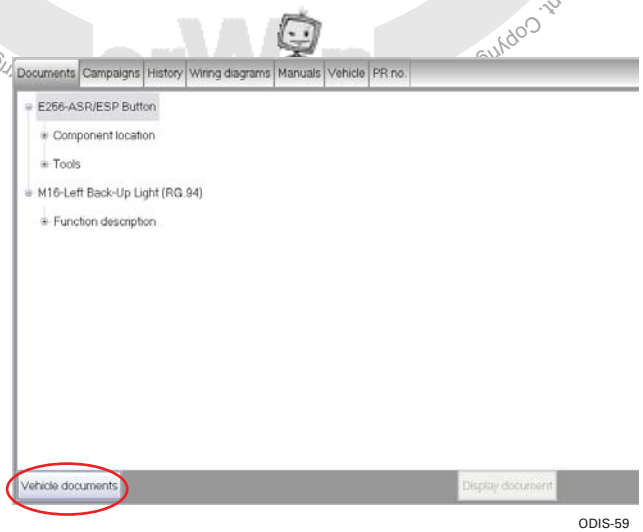
Documents for the Test Plan:

- ► 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 are looking for does not appear, select the <Vehicle documents> button at the bottom left of the screen.



ODIS-59

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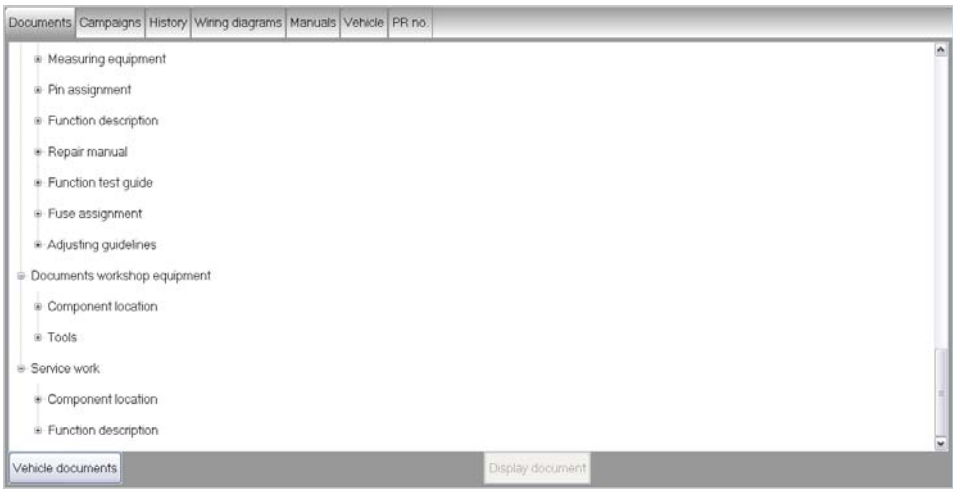
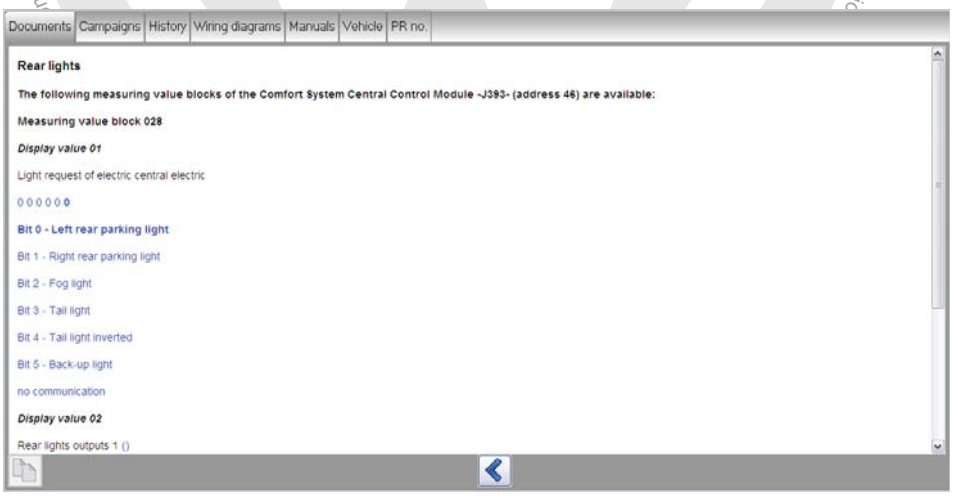
Documents

Selecting the <Vehicle documents> button brings up a folder list of all of the documents for the vehicle.



ODIS-60

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



ODIS-61

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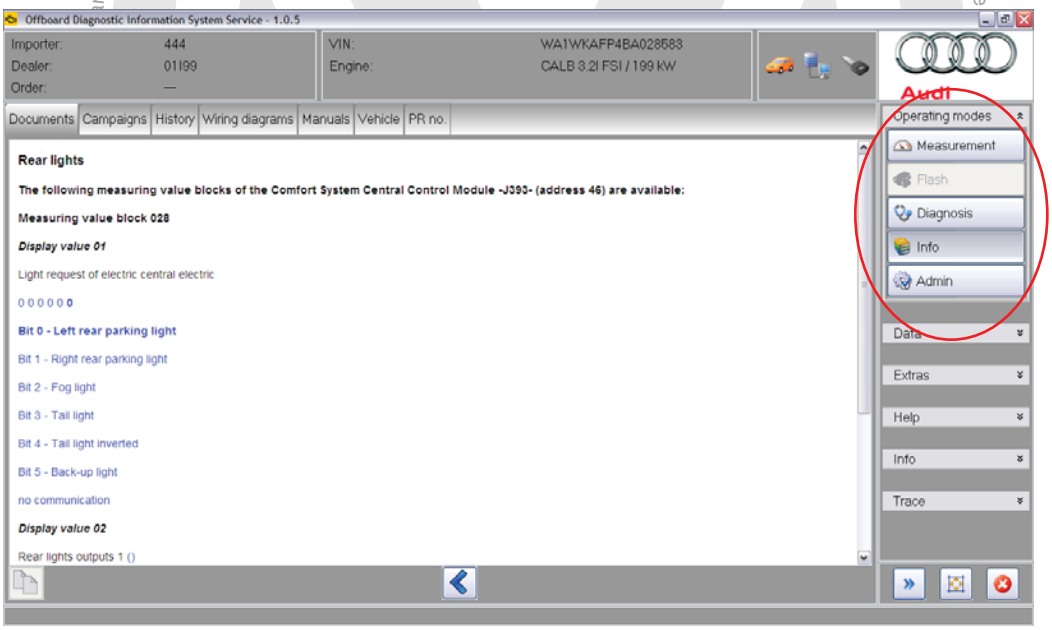
Documents

After selecting <Documents>, you are now in the Info mode. To return to any test plans or other diagnosis features, select the <Diagnosis> button under operating modes on the right side of the screen. Keep in mind that selecting <Documents> will cause you to exit from the Diagnosis mode.



ODIS-62

Note

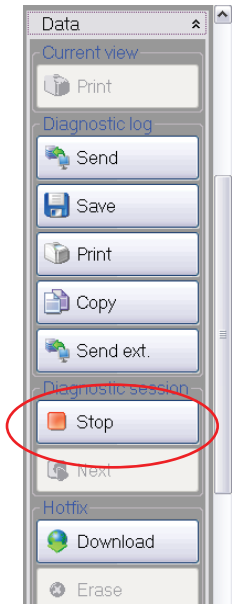
The Search function in the right side screen menu under <Extras> can be used to search through all of ODIS, including <Documents>.

Notes

Saving/Interrupting

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

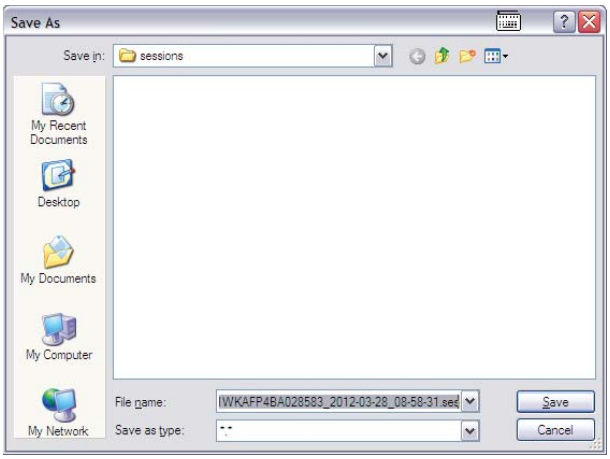
Expand the Data section by selecting the arrows next to the work Data in the side menu area. Select the <Stop> button under Diagnostic Session.



ODIS-63

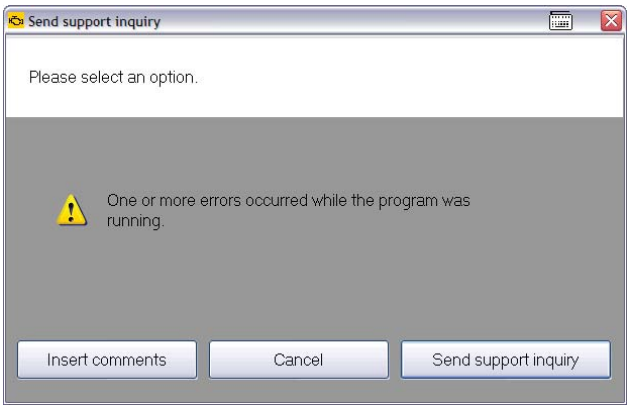
A “Save As” window appears. This window already has the save location and filename in place. You can either accept these or change them.

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.



ODIS-64

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.



ODIS-65

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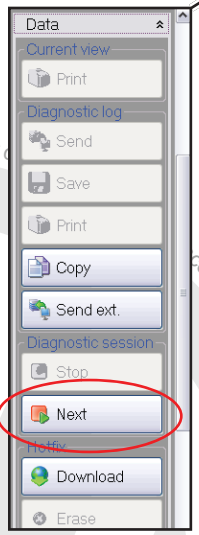
Saving/Interrupting

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

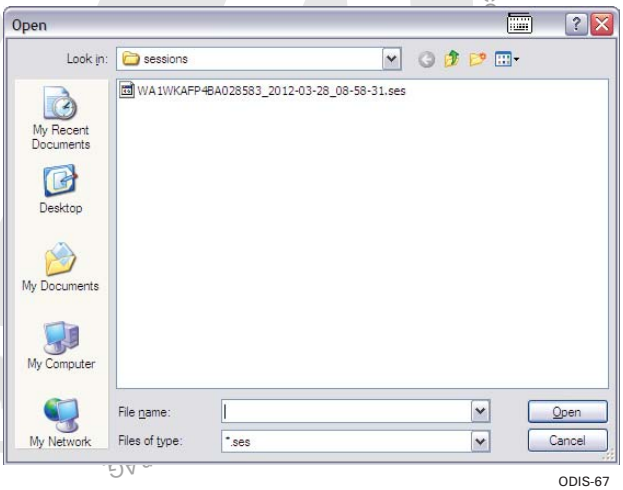
ODIS-66

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

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



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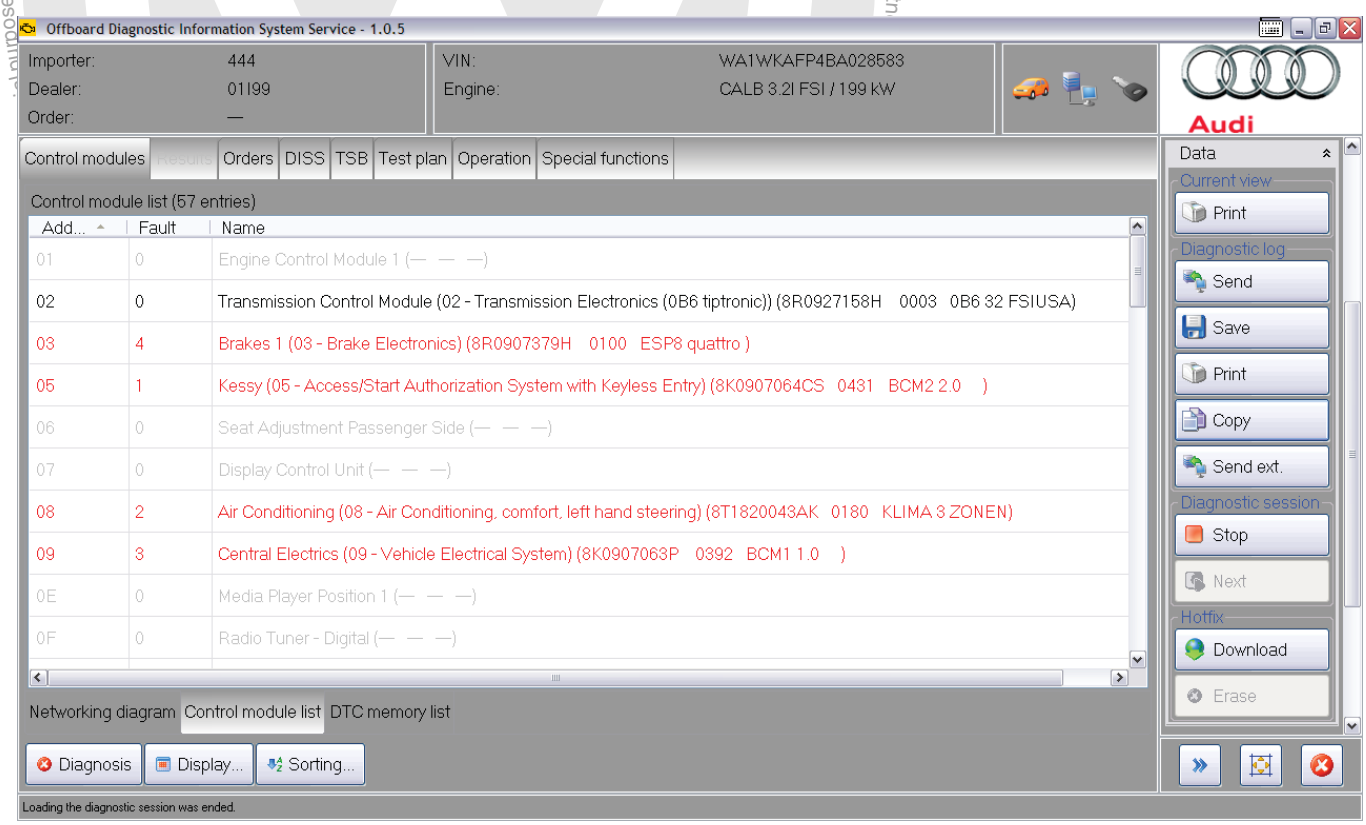
Saving/Interrupting

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.



ODIS-68

Notes

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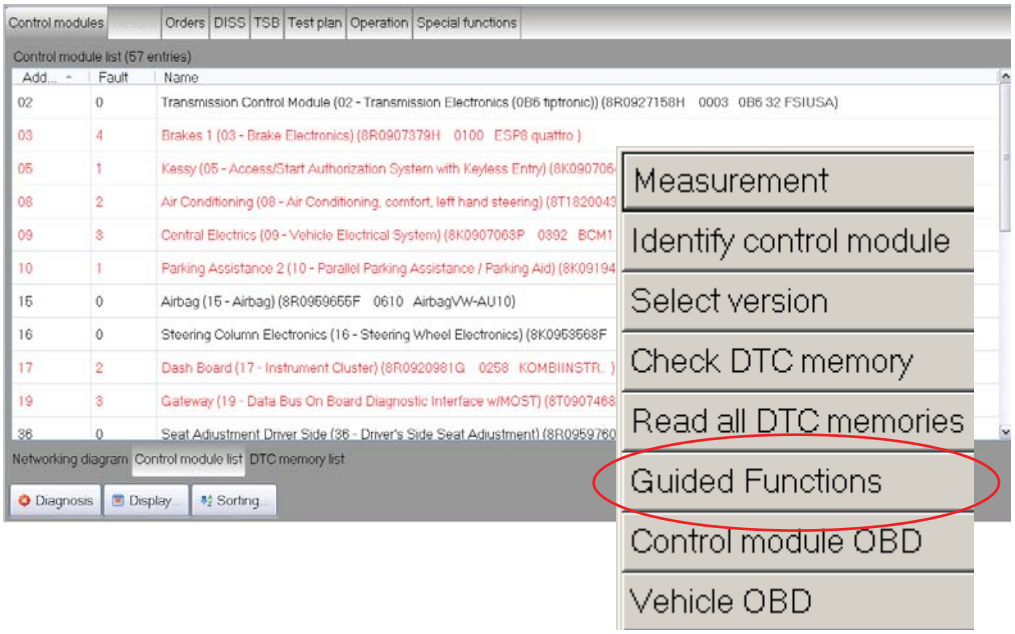
Guided Functions

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.

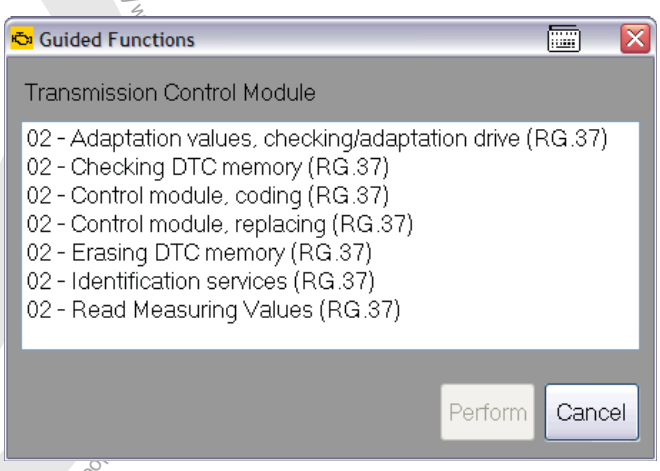
Scroll down and select <Guided Functions>.



ODIS-69

A list of functions will appear.

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



ODIS-70

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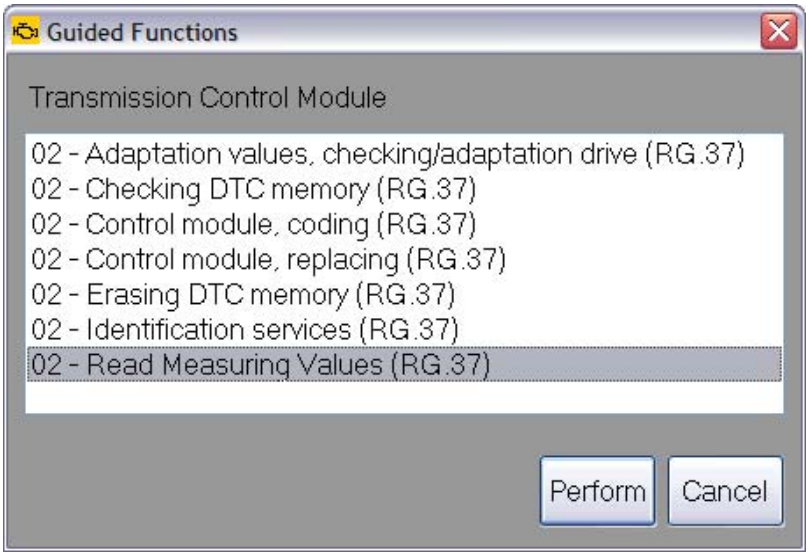
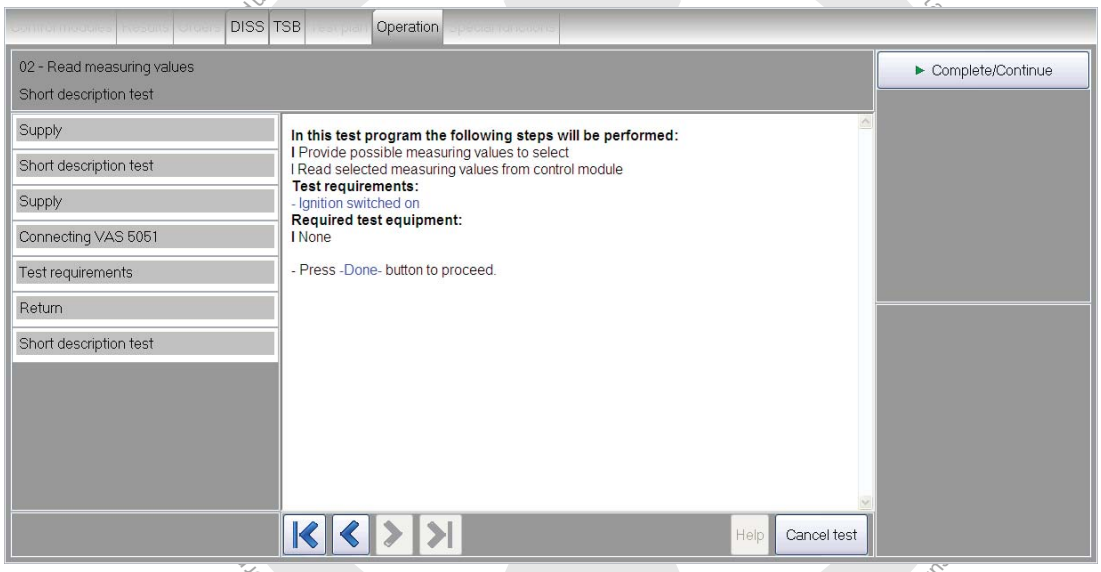
Select the function you want, then select the <Perform> button.



ODIS-71

That test plan automatically launches.



ODIS-72

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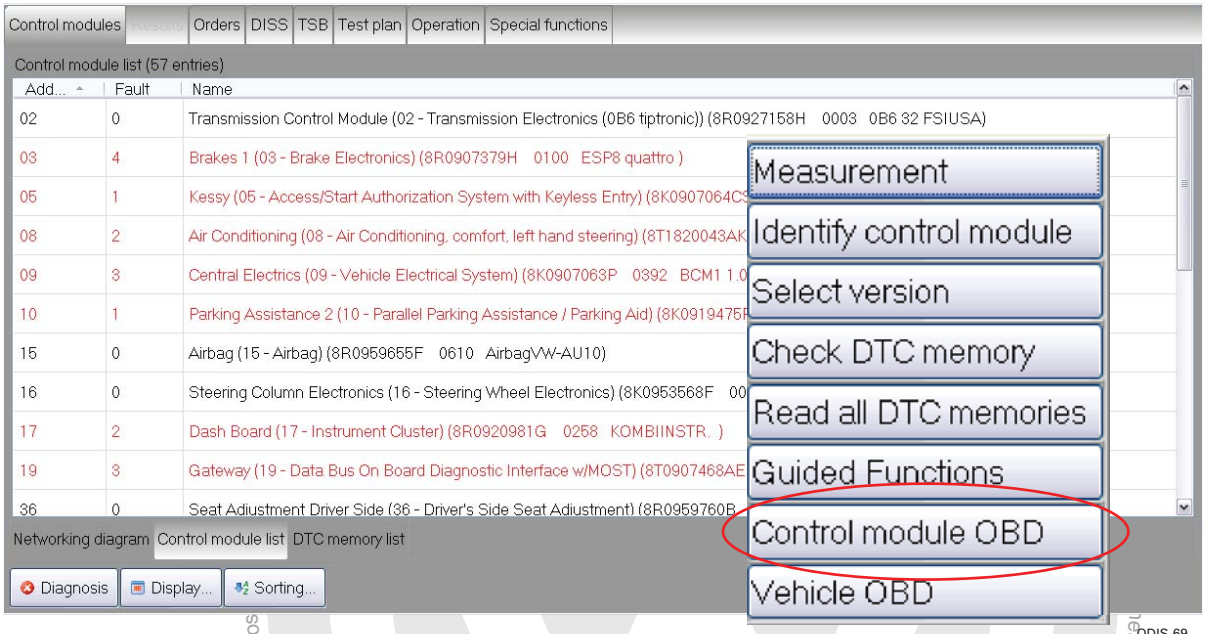
Note

If a test plan is selected using Guided Functions, it will not be added to the test plan list or the Guided Fault Finding diagnostic log.

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 module> tab, but the menu can also be accessed from the network topology screen by right clicking on a control module.

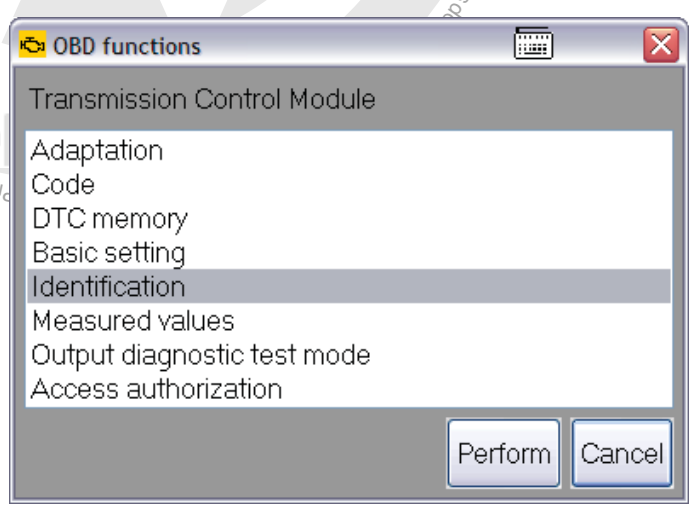


ODIS-69

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>.



ODIS-101

Note

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.

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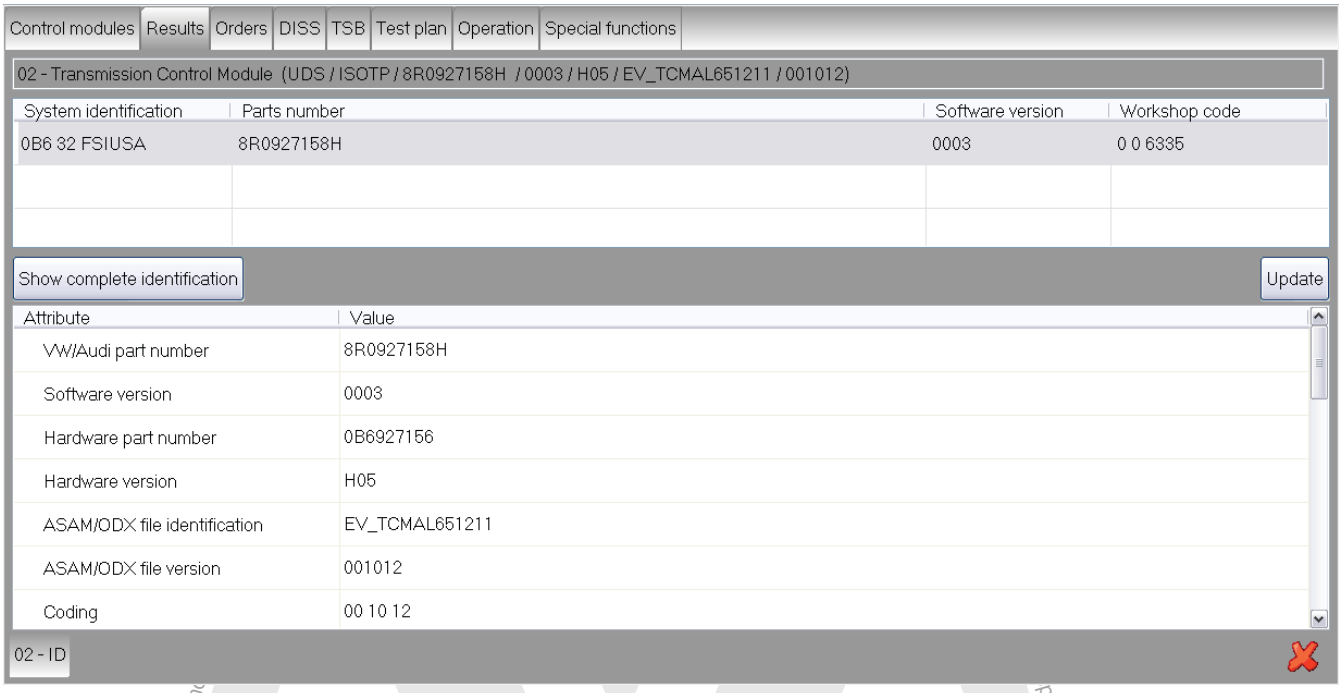
Control Module OBD

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



ODIS-102

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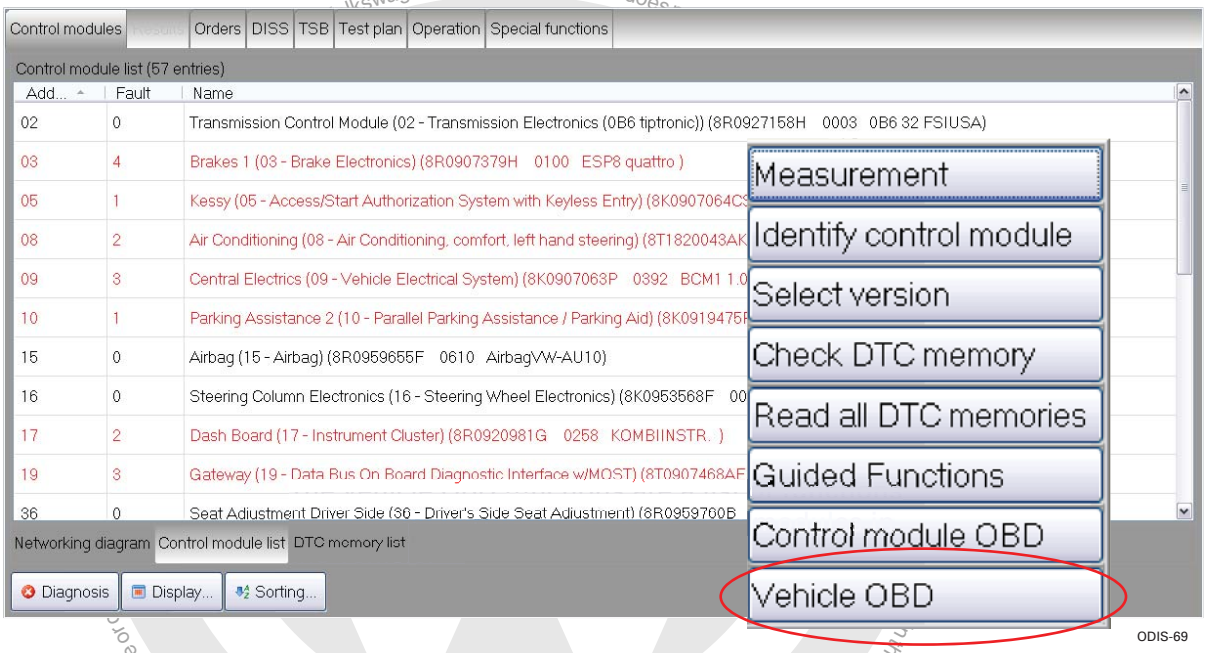
Vehicle OBD

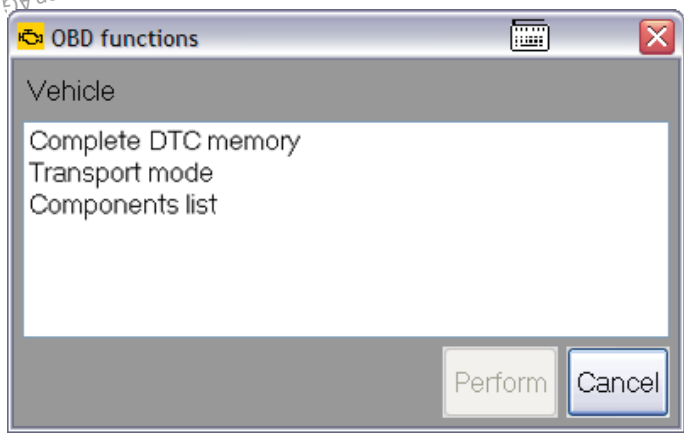
To access Vehicle OBD, right click on a control module in any of the Control Module screens. This example shows the Control Modules tab, but the menu can also be accessed from the Network Topology screen by right clicking on a control module.



ODIS-69

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.



ODIS-79

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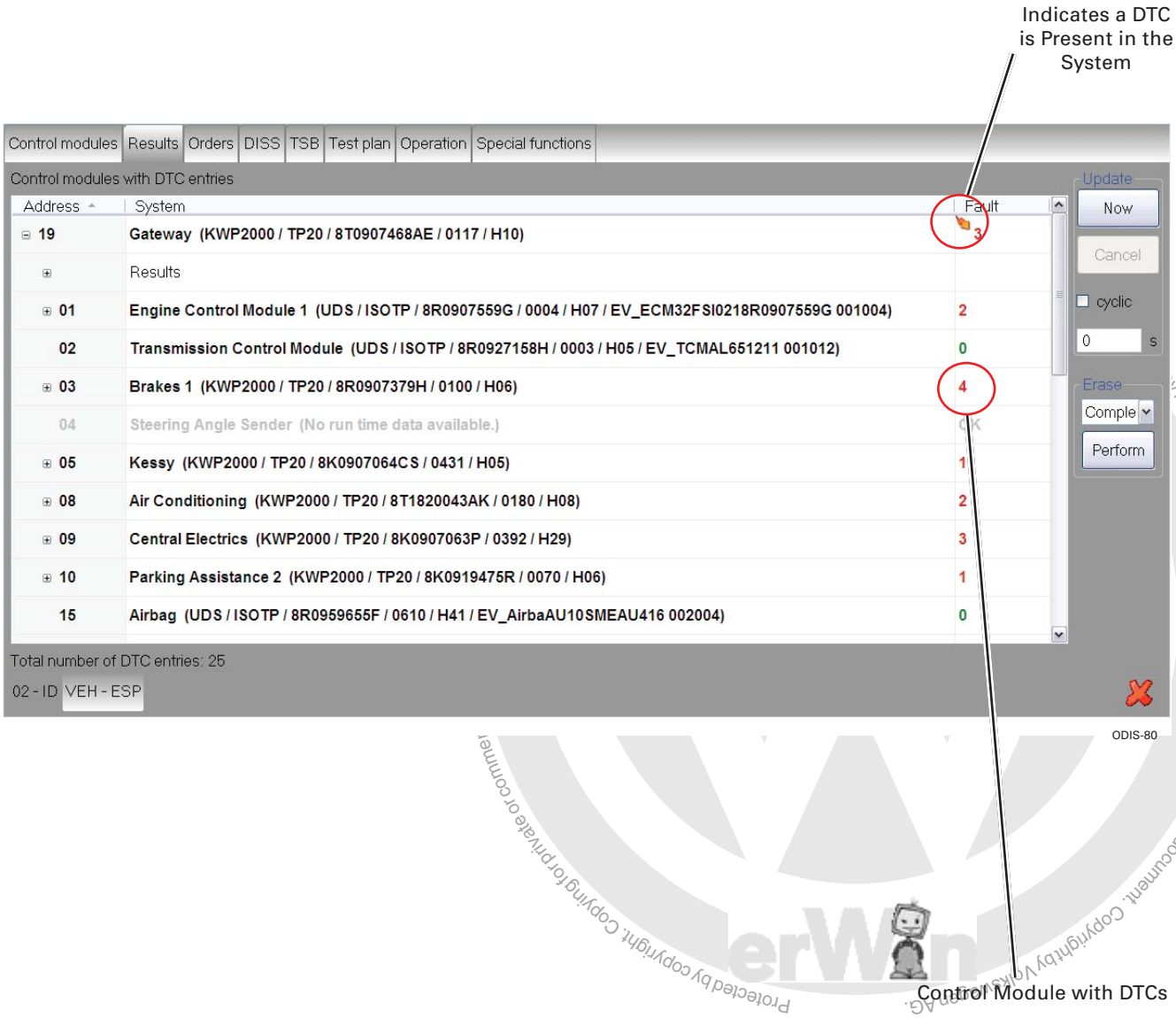
Vehicle OBD

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



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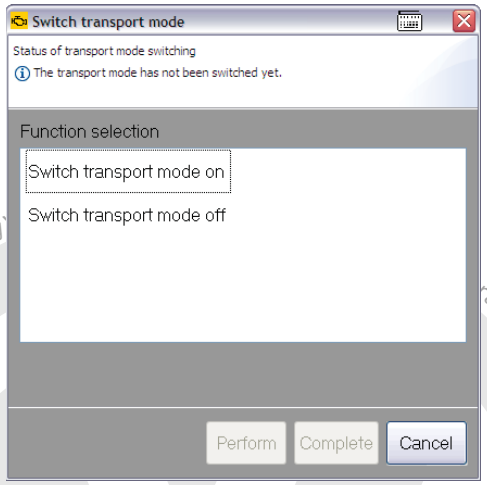
Vehicle OBD

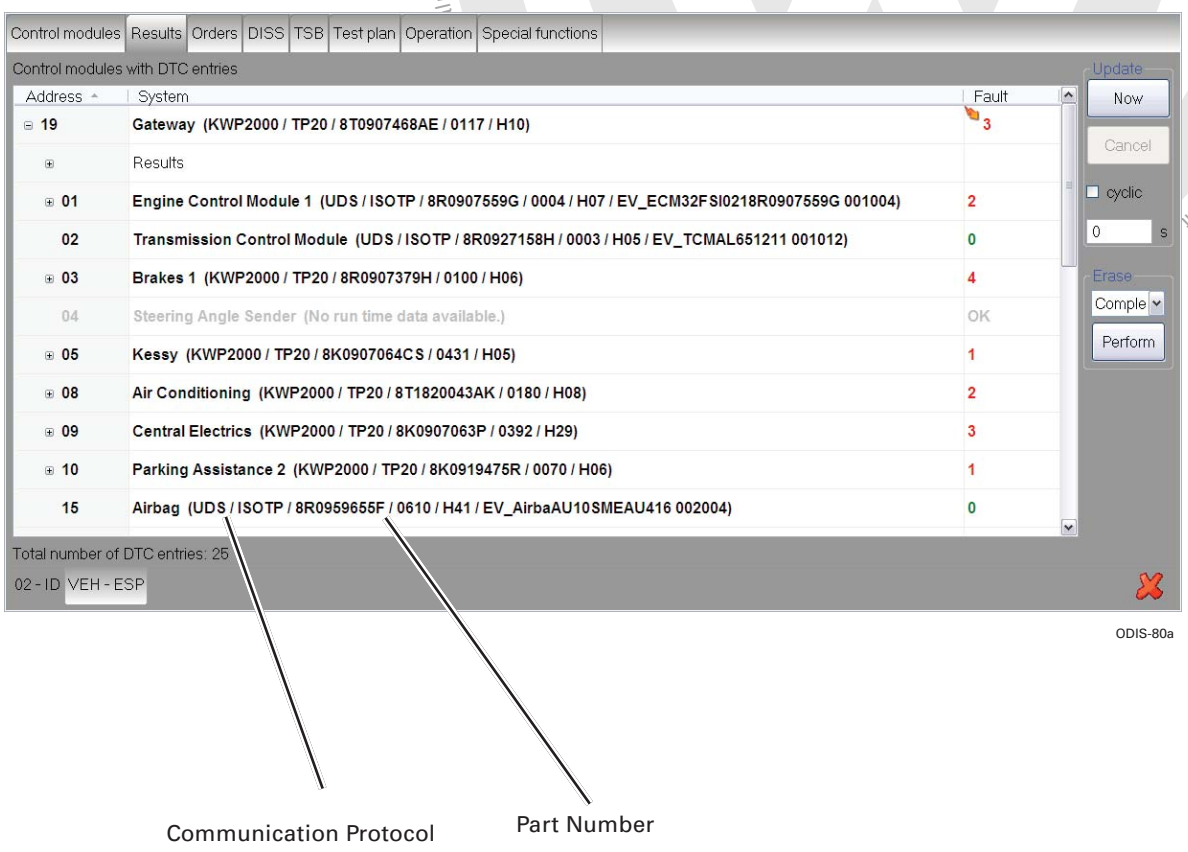
The Vehicle OBD Transport Mode option allows you to take the vehicle out of Transport Mode (and if necessary, put it back into Transport Mode).



ODIS-81

Vehicle OBD Component List

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



ODIS-80a

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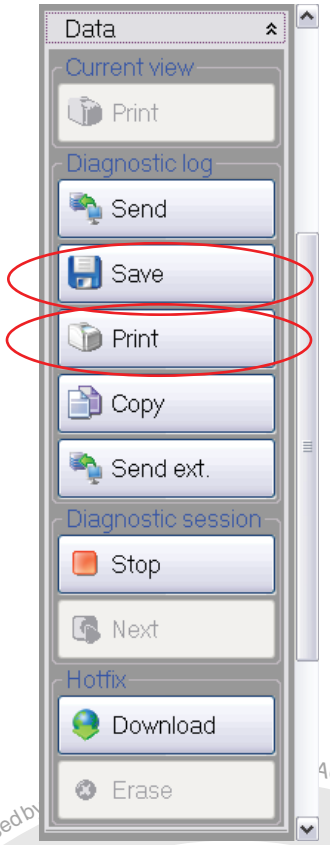
Notes

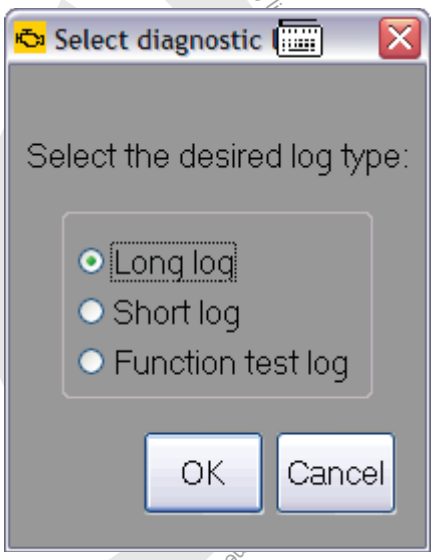
Diagnostic Logs

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

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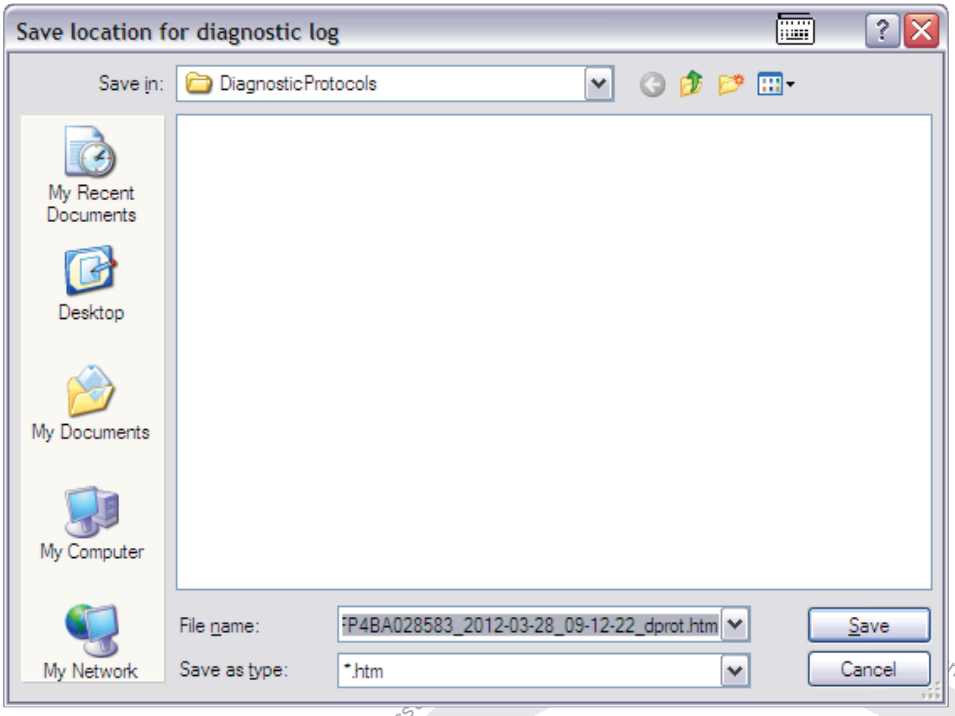
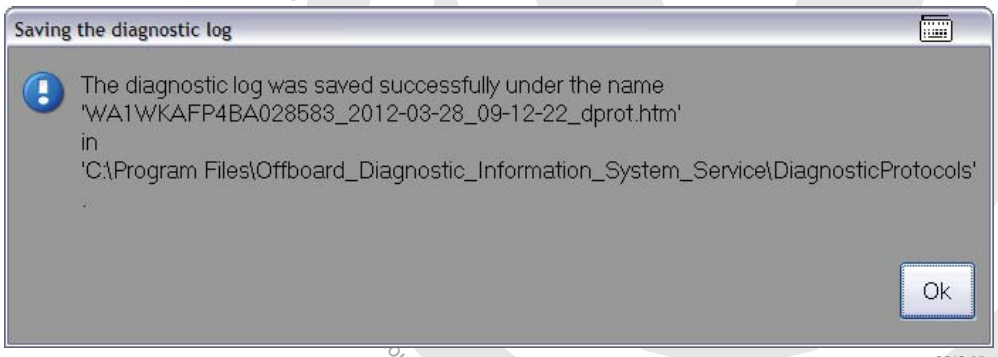
If saving to a file, select the correct destination and change the filename (if necessary).



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



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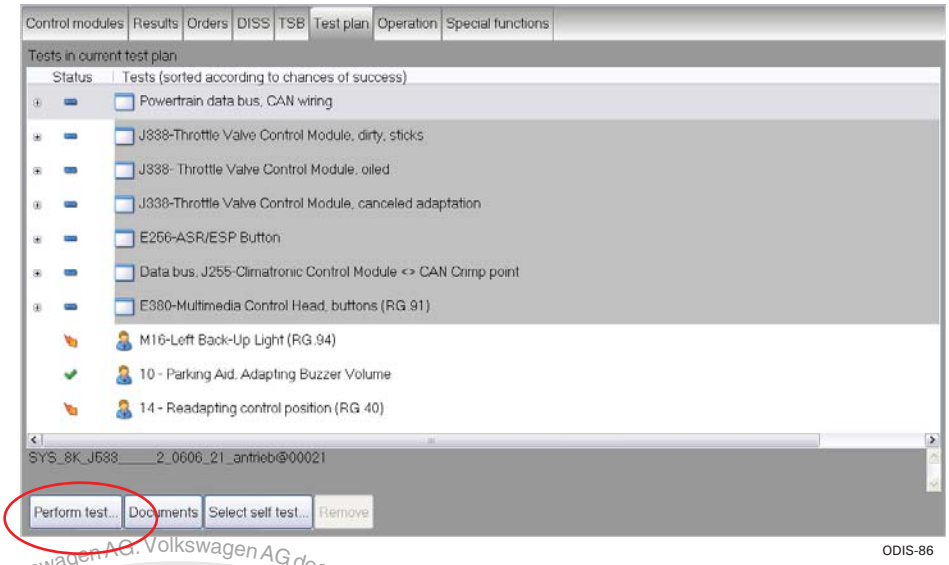
Adaptations

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.



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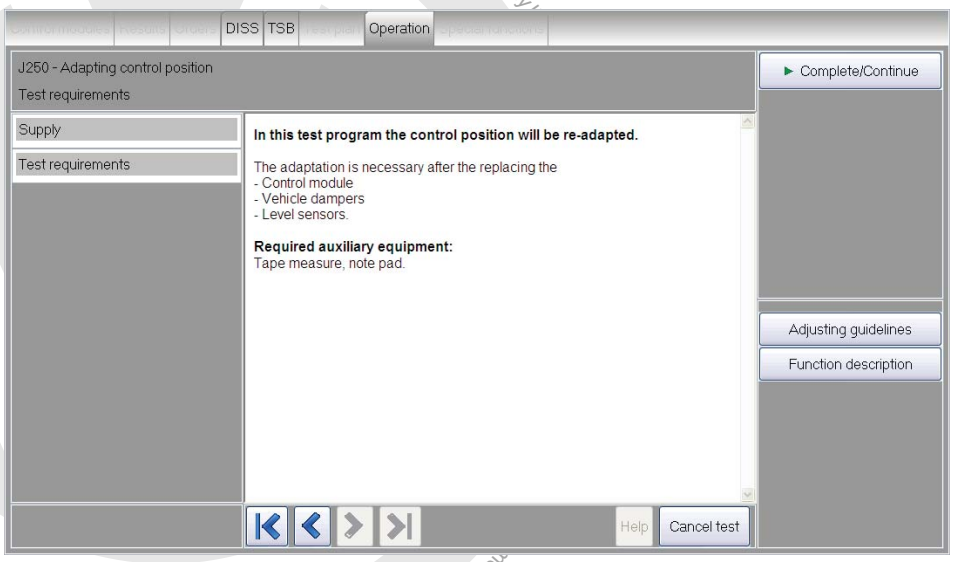
The test plan for running the rear window adaptation will load and run. Follow the test plan to perform the adaptation.



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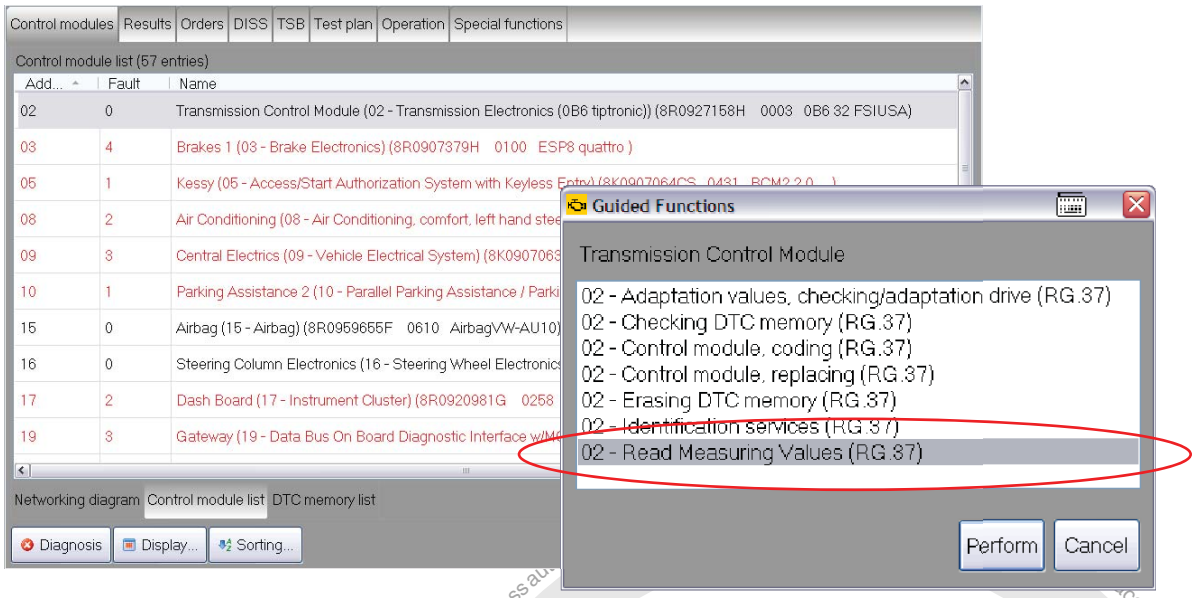
Notes

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 <Read Measured Values>.



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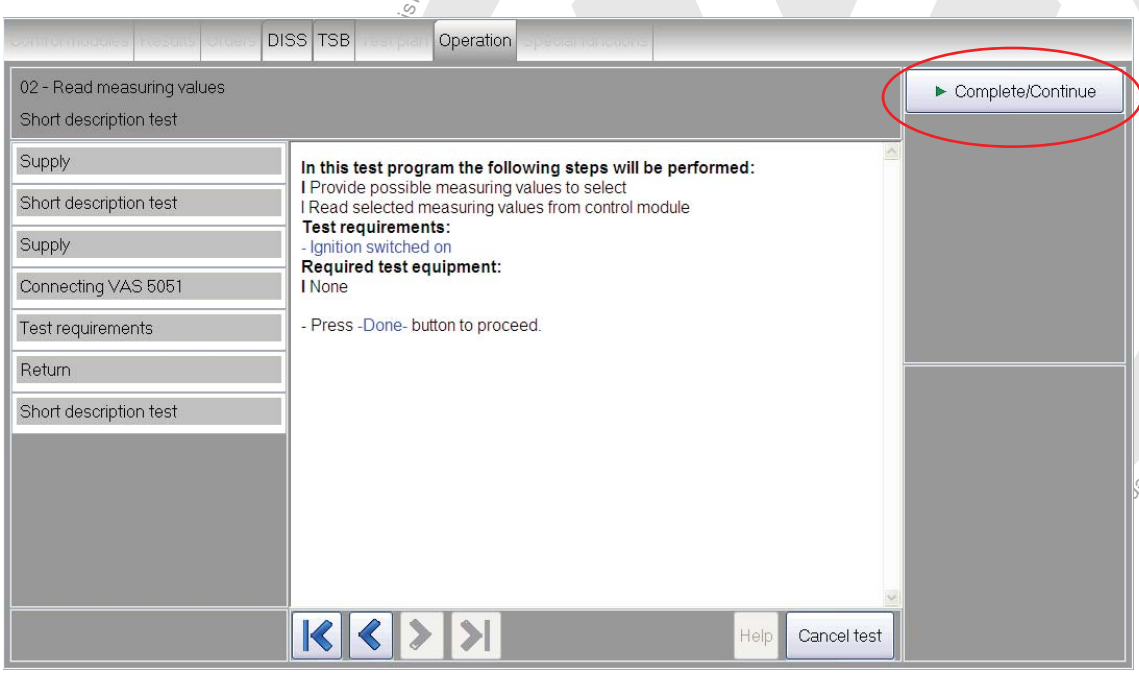
The Measuring Value Block GFF test plan launches. Select <1> to continue.



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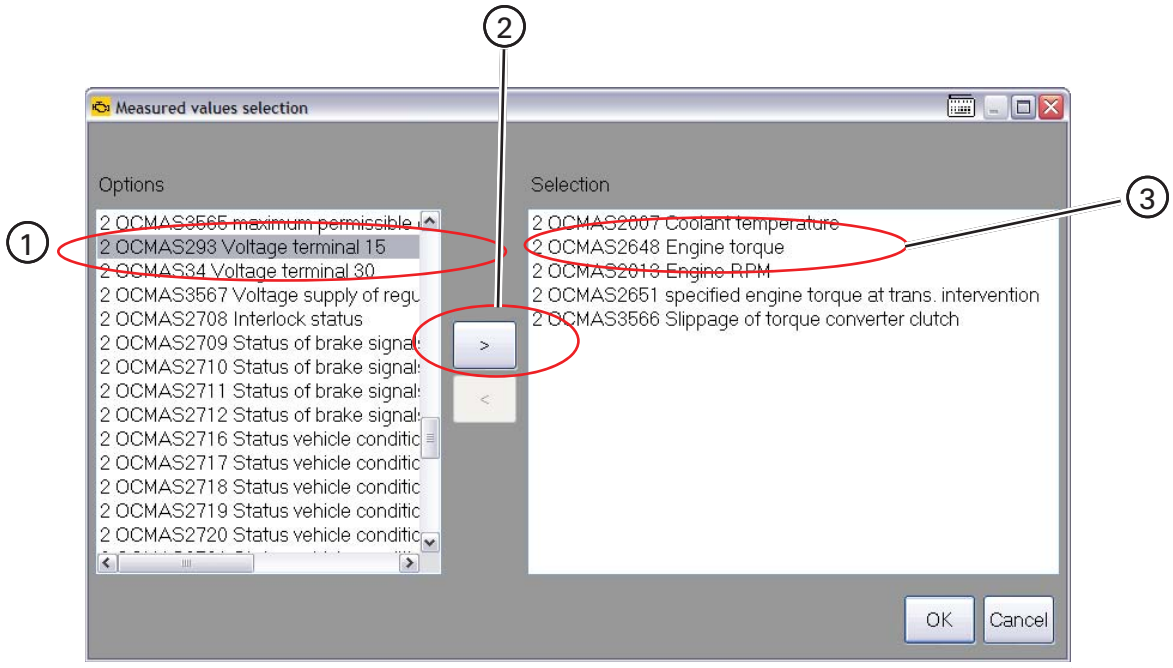
Measuring Value Blocks

A window appears that lists all of the available measured values for that control module on the right. To load a control module for reading, select it and click on the right arrow or double-click. The selected measured value will move to the right side. Multiple measured values can be selected by holding down the Control (CTRL) key and clicking on additional values.



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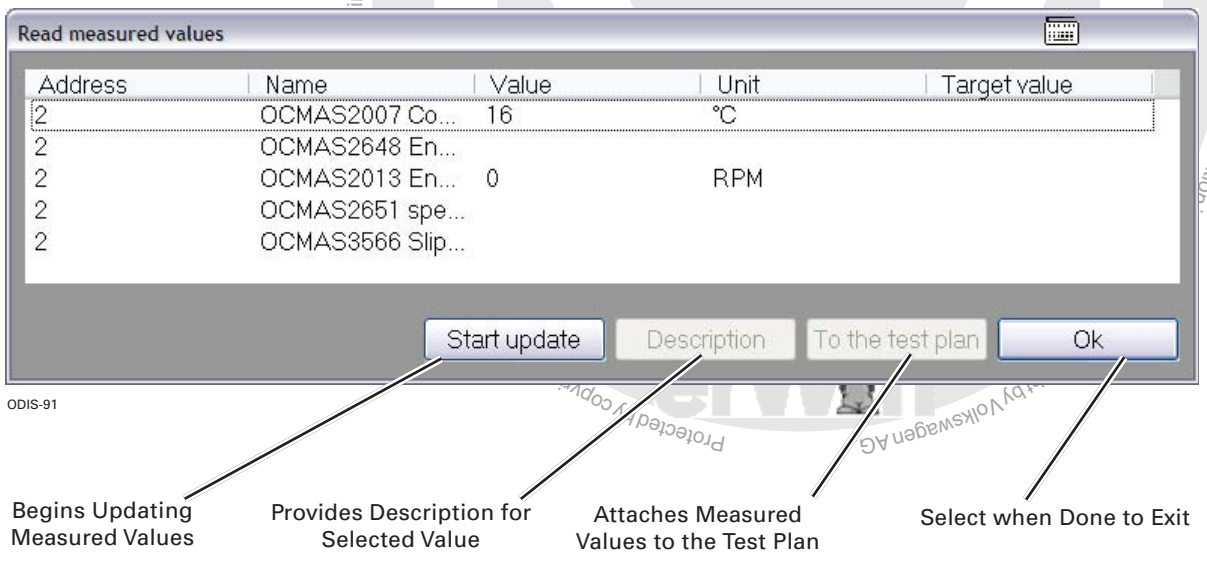
The selected measured values appear in a new window. The <Start update> button begins a cyclic update of the measured values. The <Description> button provides a description if a single measured value is selected. The <OK> button exits the Read Measured Values window.

The Read Measured Values window can be resized, and each of the columns can also be resized to display more or less information.



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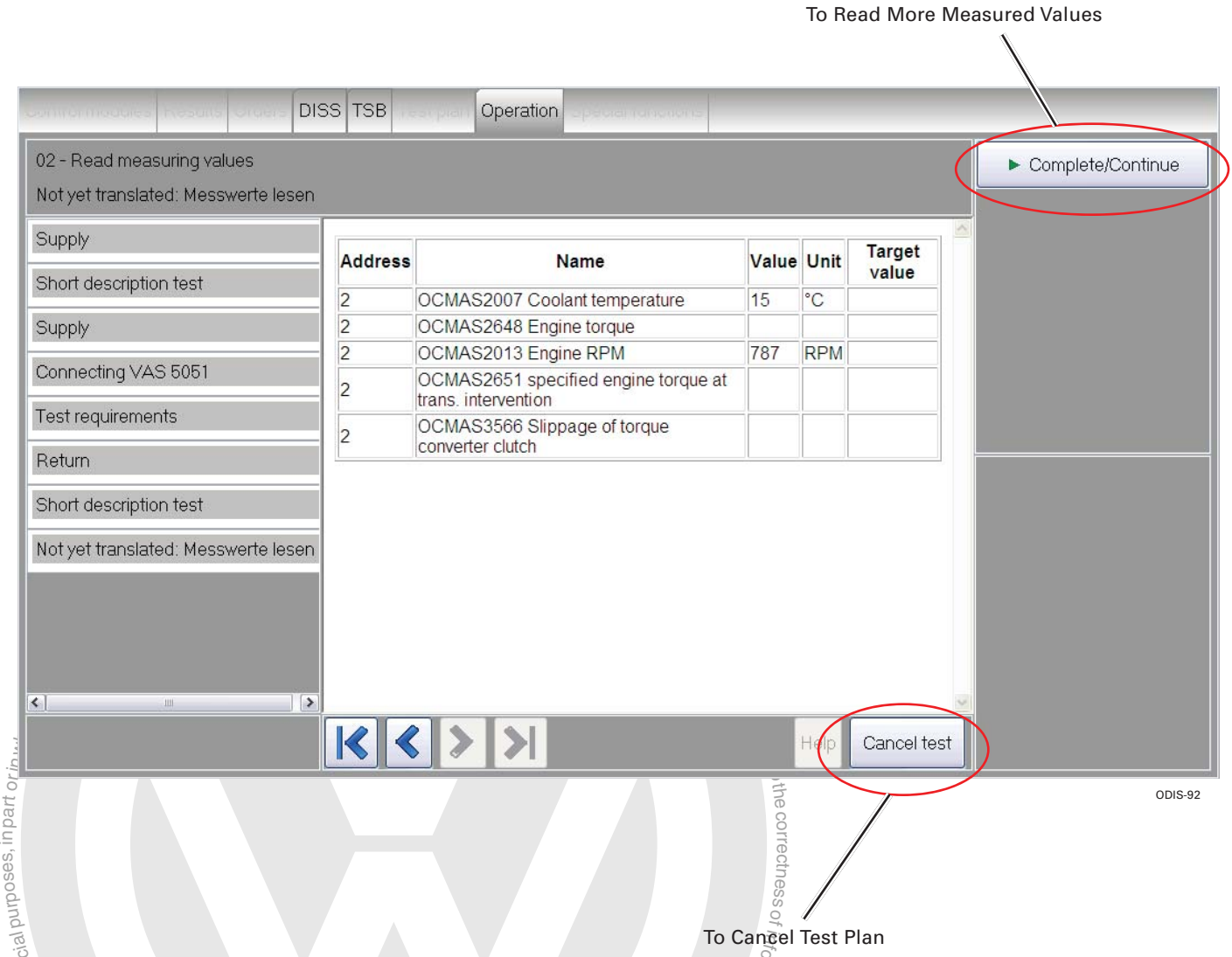
Measuring Value Blocks

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.



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Notes

Support

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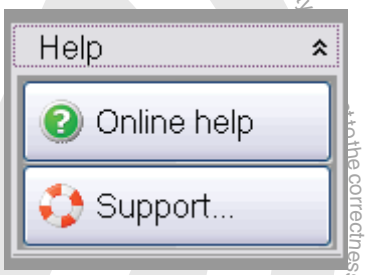
If you are having difficulty with the ODIS application or the test plans, you can quickly and easily let the developers know about it so that it can be quickly fixed.

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



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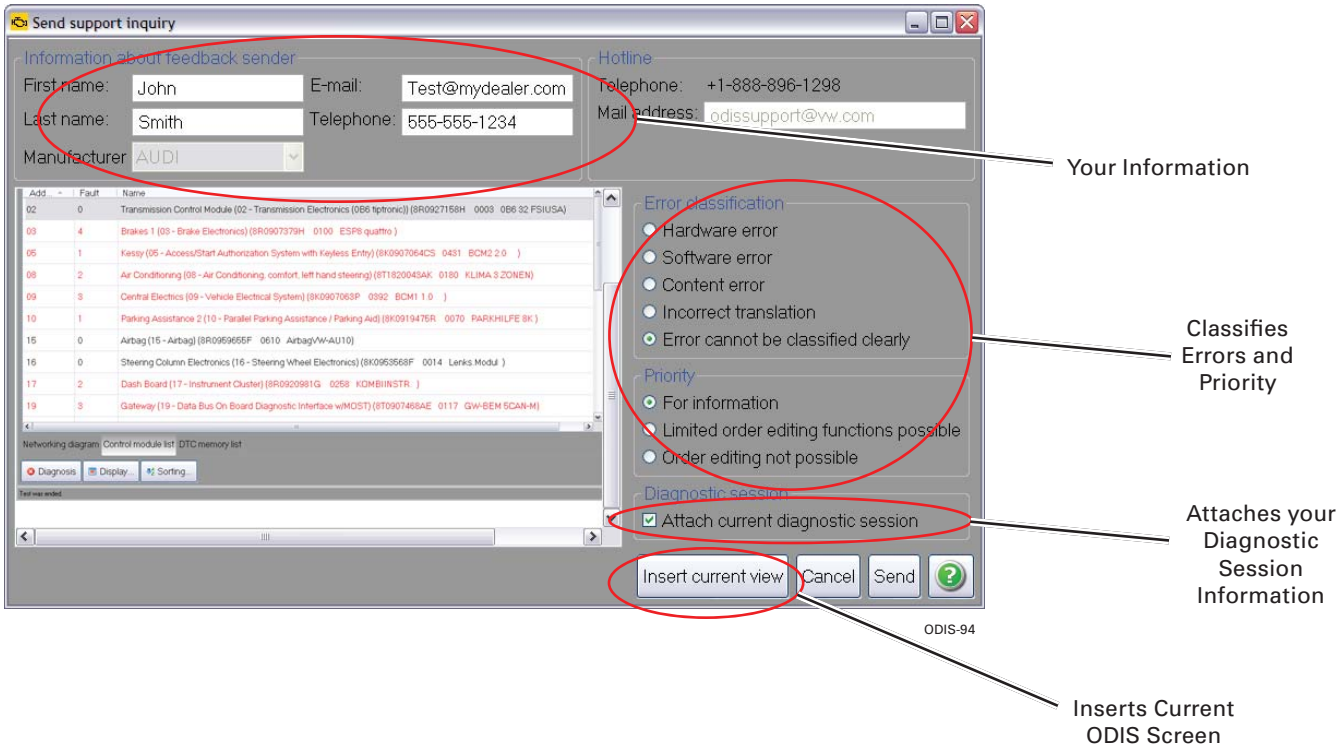
When the support window appears, type in your personal information and vehicle brand.

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.



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Notes

Knowledge Assessment

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This Reference Guide does not have a knowledge assessment. It is designed to be used as reference, or in conjunction with the ODIS Service Workbook 910223.

The ODIS Service Workbook 910223 has an assessment of its own that can be found at www.accessaudi.com.

Please submit any questions or inquiries via the Academy CRC Online Support Form which is located under the “Support” tab or the “Contact Us” tab of the Academy CRC.

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910123

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Audi of America, LLC
2200 Ferdinand Porsche Drive
Herndon, VA 20171

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.

next

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Version 1.0

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.

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Version 1.0

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.

back OK

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