



Abrites Diagnostics for Volvo
User Manual

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List of Revisions

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1. Introduction

“Abrites Diagnostics for Volvo” is a Windows PC based diagnostic software for Volvo vehicles. With the help of this software you can perform complete diagnostic operations of all vehicles.

For proper operation of your diagnostic software you will need a corresponding interface for connection between your PC and vehicle named “AVDI”.

AVDI is an interface produced by Abrites Ltd. intended to act as an interface between the PC and the electronic control units.

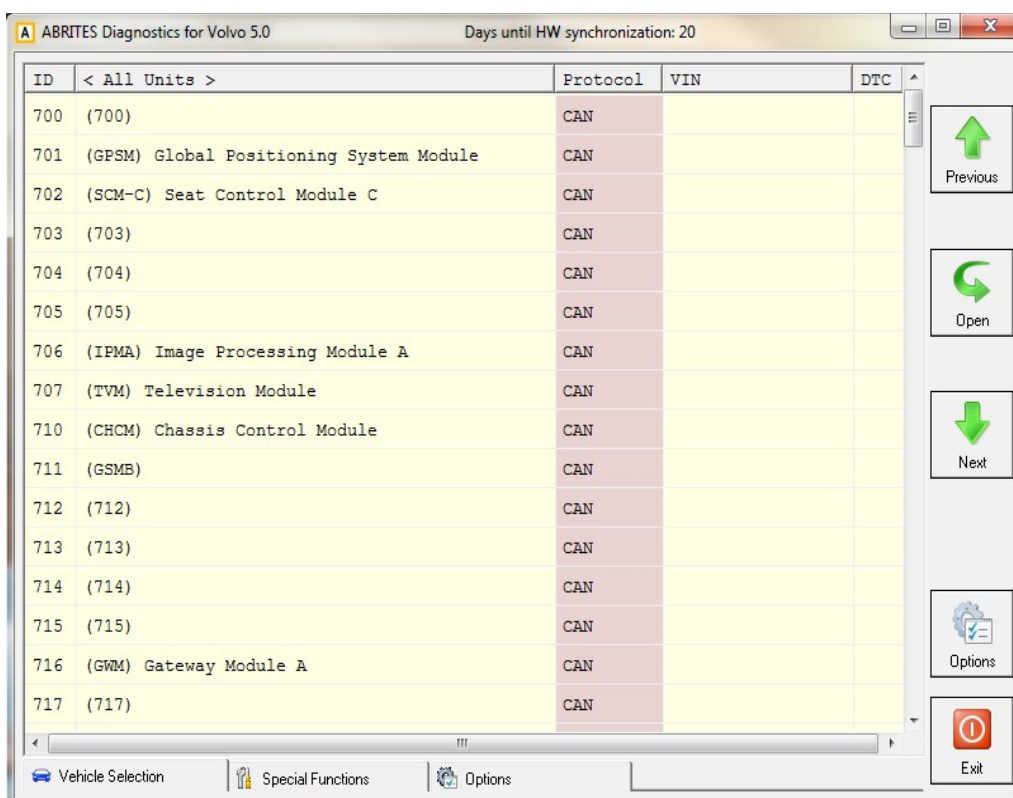
AVDI should be used with ABRITES software produced by Abrites Ltd.

ABRITES is a trade mark of Abrites Ltd.

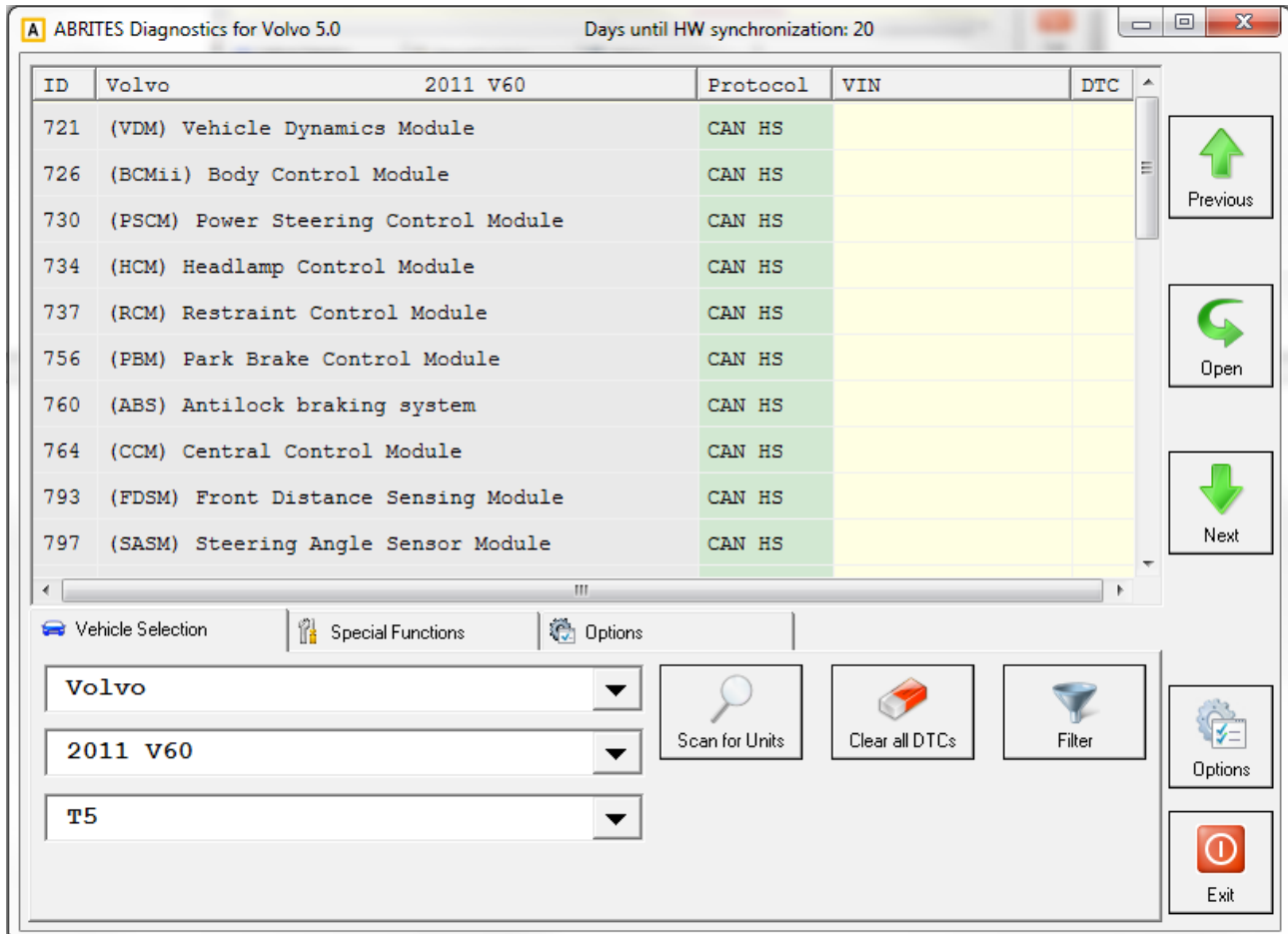
2. Using the Abrites diagnostic for Volvo

The Abrites diagnostics for Volvo is installed together with the rest of the Abrites diagnostic software applications as a part of the Abrites diagnostic suite provided to the user via e-mail. The user can start the software by clicking on the appropriate icon from the Abrites “Quick start” menu.

Once the Volvo icon is selected the software will start and the user will see the following screen:



From this screen the user can select the vehicle they are working with. For the purpose of the manual we have selected a Volvo V60 from 2011 with a T5 engine.



In the main fields of the screen the user will see all the modules that may be installed in this vehicle. The modules may vary according to the vehicle specifications.

2.1 Diagnostics

The Abrites diagnostics for Volvo provides the options for detailed module identification, reading and clearing of diagnostic trouble codes (DTC), monitor live data. From the screen below the user can see the amount of diagnostic trouble codes in all the selected units:

#	XC90	2003-	Units	Protocol	VIN	DTC
01	(ABS)	Anti-Brake System Module		CAN		0
02	(DSA)	DSA antispin system		CAN		0
0B	(ADM)	Additive Dosing Module		CAN		0
0F	(CPM)	Combustion Preheater Module		CAN		0
10	(ECM)	Engine control module, Nippon Denso ...		CAN		0
11	(DCM)	Fuel System/Combined system		CAN		0
12	(ETM)	Electronic Throttle Module		CAN		0
18	(CPM)	Combustion Preheater Module		CAN		0
1A	(DEM)	Differential Electronic Module		CAN		0
1F	(CPM)	Combustion Preheater Module		CAN		0

Special Functions: Cluster Calibration, NVData, Flash, Service Functions

There is an option to read and clear all DTCs or individually clearing them when entering the appropriate electronic module.

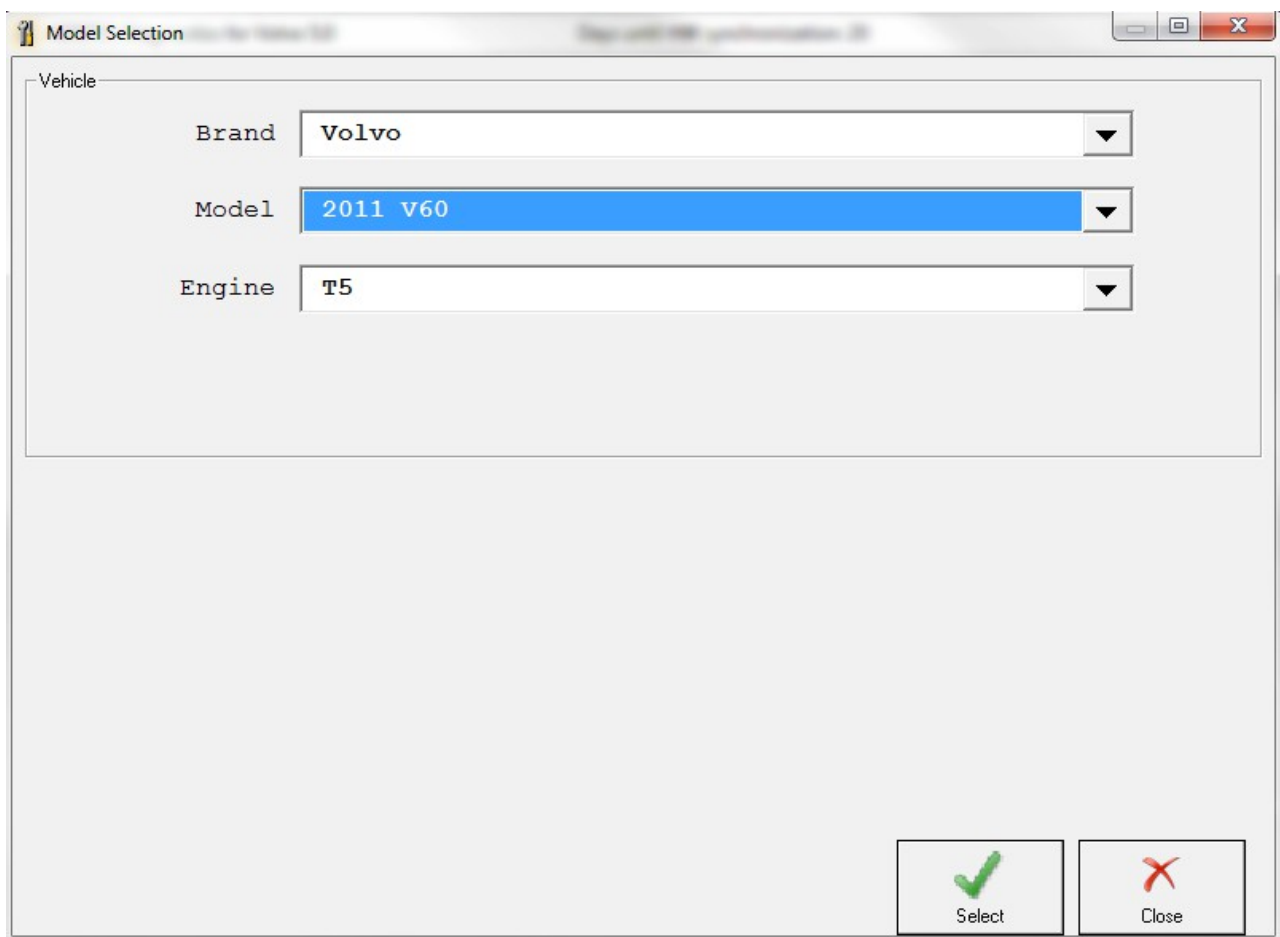
3. Special functions

The software provides a variety of special diagnostic functions in order to assist the user to perform advanced diagnostics on Volvo vehicles. Such functions include “Service functions”, “Cluster calibration”, NV data and Flash reading and updating.

3.1 Service functions

The option service functions refers to modifications of the service history of the vehicle after maintenance or during testing. It also provides access to real time testing of actuators.

When the icon is selected the user can select a model of vehicle to begin using the service functions.



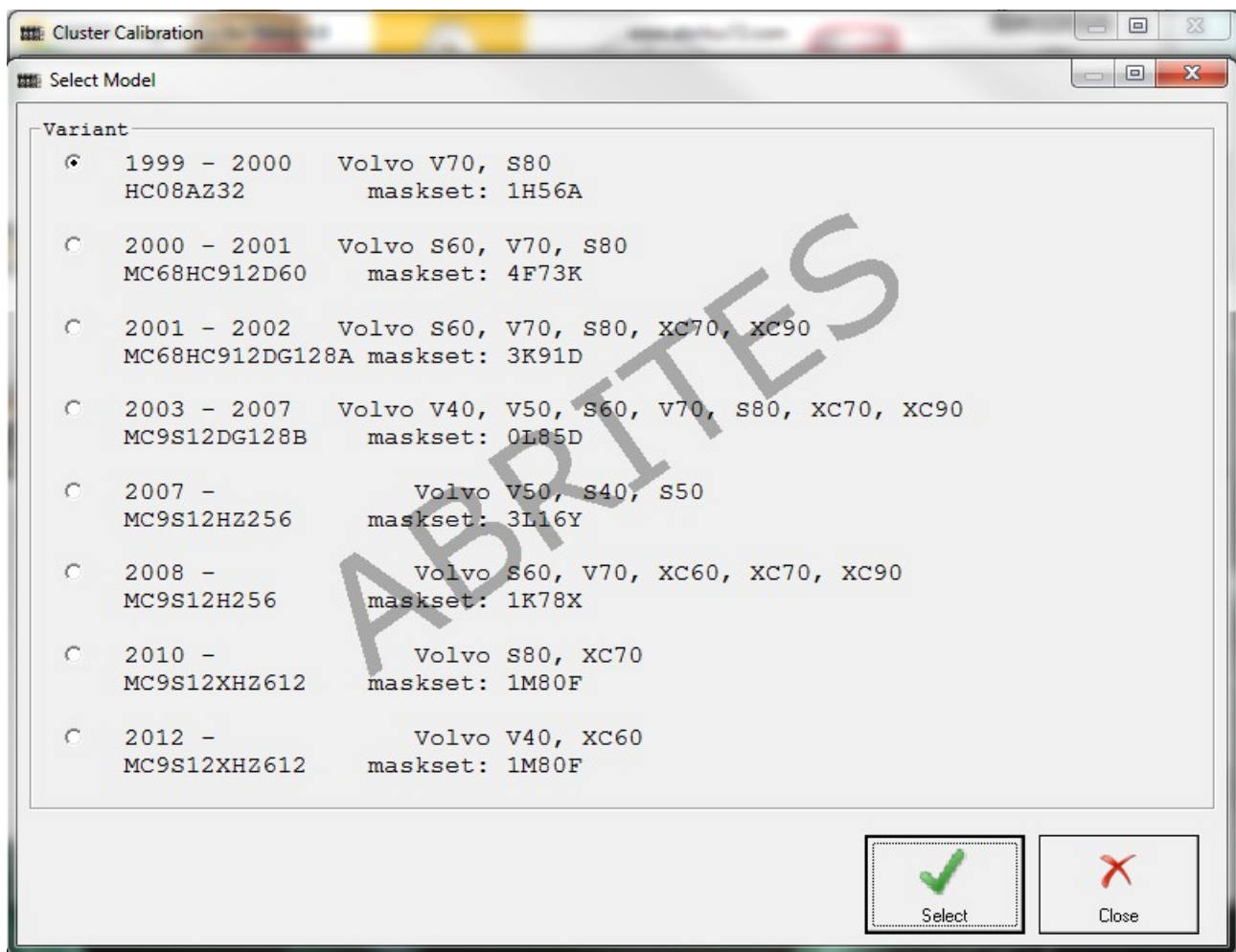
Once the model is selected there will be a list of options for the vehicle the user is working with.

3.2 Cluster calibration

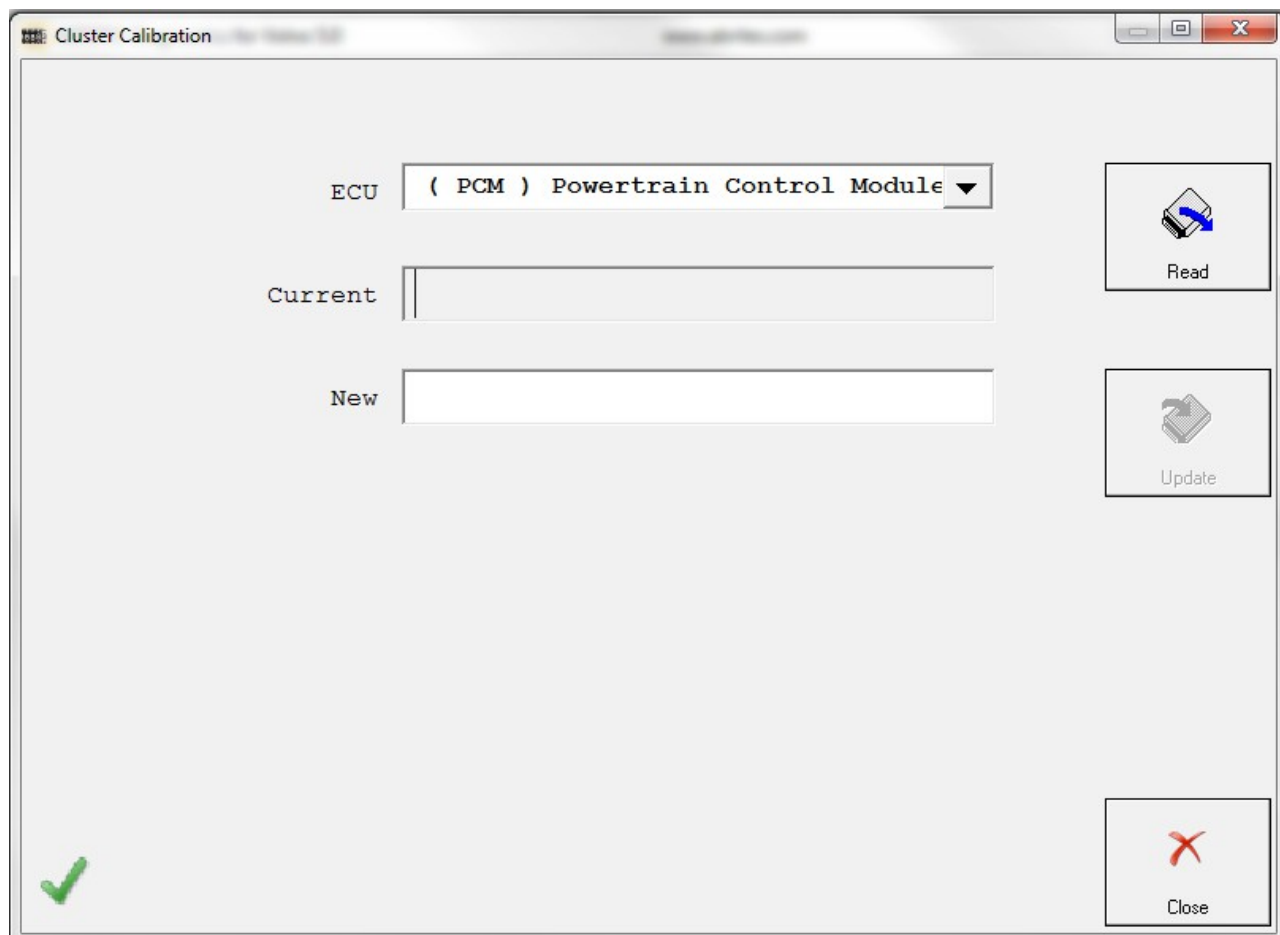
Using the "Cluster calibration" function the user can calibrate the values for different modules.

This function is particularly useful in the cases where a module needs to be replaced with a second hand unit with a different value.

In the first screen of the cluster calibration menu the user can select the vehicle they are working with:



In the second screen of the cluster calibration the user can select the module they would like to work with and press **read**.



The next step in the cluster calibration process would be to type the new values in and update the module.

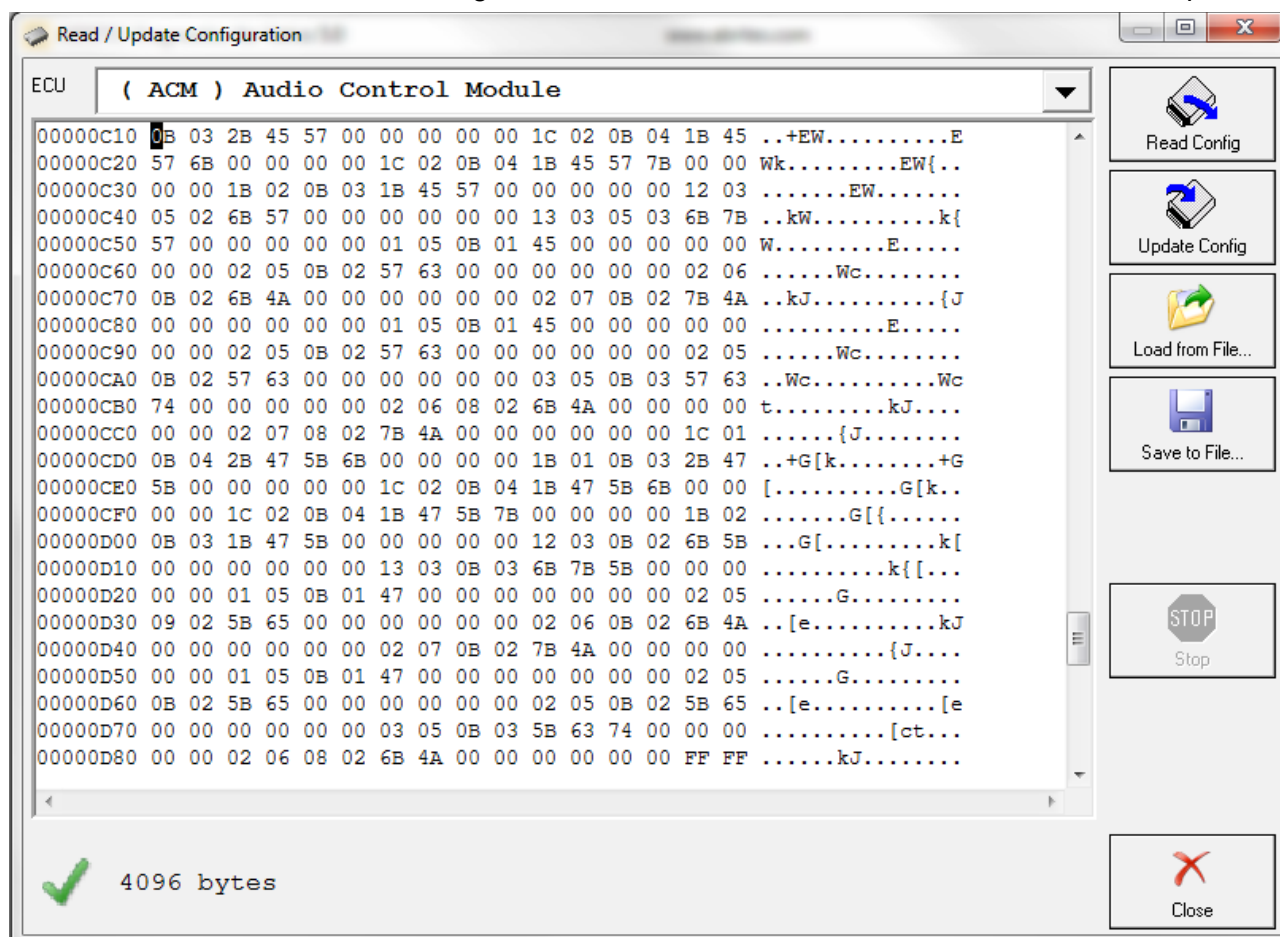


This allows the vehicle to continue functioning properly without discrepancies caused by mismatches in the counter values. Please note that such calibrations should only be performed after strictly following local regulations.

3.3 NV DATA

The NV data special function allows the user to read and update the configuration data of different modules, save it to a file on their computer and update it back to the module if needed.

Once this function of the Abrites diagnostics for Volvo is selected the user can see all the options.



This function is very useful for electronic module replacement.

3.4 Flash

Similar to the NV data function in terms of its operation the flash function is very helpful when flash files need to be transferred from one unit to another or for flash tuning purposes.

