

ABRITES J2534 PASSTHRU DRIVER

User manual version 1.1



www.abrites.com

Important notes

The Abrites software and hardware products are developed, designed and manufactured by Abrites Ltd. During the production process we comply to all safety and quality regulations and standards, aiming at highest production quality. The Abrites hardware and software products are designed to build a coherent ecosystem, which effectively solves a wide range of vehicle-related tasks, such as:

- Diagnostic scanning;
- Key programming;
- Module replacement,
- ECU programming;
- Configuration and coding.

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There are certain conditions, upon which the warranty cannot be applied. The warranty shall not apply to damages and defects caused by natural disaster, misuse, improper use, unusual use, negligence, failure to observe the instructions for use issued by Abrites, modifications of the device, repair works performed by unauthorized persons. For example, when the damage of the hardware has occurred due to incompatible electricity supply, mechanical or water damage, as well as fire, flood or thunder storm, the warranty does not apply.

Each warranty claim is inspected individually by our team and the decision is based upon thorough case consideration.

Read the full hardware warranty terms on our website.

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- The information contained in this document is subject to change without prior notice. Abrites shall not be held liable for technical/editorial errors, or omissions herein.
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- Abrites assumes no responsibility for any damage resulting from the use, misuse, or negligent use of the hardware or any software application.

Safety information

The Abrites products are to be used by trained and experienced users in diagnostics and reprogramming of vehicles and equipment. The user is assumed to have a good understanding of vehicle electronic systems, as well as potential hazards while working around vehicles. There are numerous safety situations that cannot be foreseen, thus we recommend that the user read and follow all safety messages in the available manual, on all equipment they use, including vehicle manuals, as well as internal shop documents and operating procedures.

Some important points:

Block all wheels of the vehicle when testing. Be cautious when working around electricity.

- Do not ignore the risk of shock from vehicle and building-level voltages.
- Do not smoke, or allow sparks/flame near any part of the vehicle fuel system or batteries.
- Always work in an adequately ventilated area, vehicle exhaust fumes should be directed towards the exit of the shop.
- Do not use this product where fuel, fuel vapours, or other combustibles could ignite.

In case any technical difficulties occur, please contact the **Abrites Support Team by email at <u>support@abrites.com</u>.**

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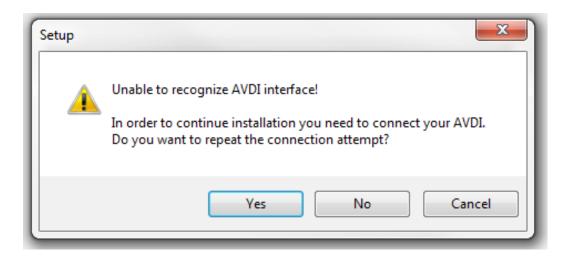
Date	Chapter	Description	Revision
22.12.2015		Document created	1.0
06.02.2018		Updated to include ISTA-D and INPA	1.1

1. Introduction

The Abrites Vehicle Diagnostics Interface (AVDI) is one of the most advanced diagnostic interfaces currently in existence. Apart from the features of the interface when it is used together with the Abrites Diagnostic Software developed by Abrites ltd. It can also be used as an interface between the vehicles and the vehicle manufacturer's diagnostic equipment as well other 3rd party software This feature is available using AVDI and the J2534 Passthru driver. applications. In case you have access to passthru it will be sent to you together with reset of the software suite. J2534 is an interface standard designed by SAE (Society of Automotive Engineers) and mandated by the US EPA (Environmental Protection Agency) for vehicle ECU reprogramming. Its target is to create an API (Application Programming Interface) which would be adopted by all vehicle manufacturers, allowing the Independent Aftermarket (IAM) the ability to reprogram ECUs without the need for a special dealer-only tool. The EPS regulation mandates that automotive OEMs must comply with the SAE J2534 passthrough reprogramming from model year 2004 and forward for their Powertrain ECUs. Additionally, the specification includes a provision that allows OEMs to use the J2534 reprogramming method on 1996 through 2003 model year vehicles as long as the OEMs make all necessary additional hardware (i.e. cables) available to the aftermarket. If an OEM cannot retroactively implement the J2534 pass-through reprogramming solution with or without special cables, they must make any information needed to develop aftermarket equivalents of their OEM-specific reprogramming hardware and software available to equipment and tool companies. J2534 pass-through reprogramming is mandatory on all vehicles from model year 2004 and onward, but it is only required for emissions-based ECU's (e.g. Powertrain, Engine, Transmission). Additional ECU support (Chassis and Body) will be dependent on each individual manufacturer's implementation priorities and reprogramming application capabilities. Many of the manufacturers introduce J2534 not only as a reprogramming standard but also as a standard for common diagnostic activities.

1.1 Installation

In order to install the Abrites passthru driver you will need to download the passthru file for your AVDI ID number. This file is usually sent to you together with the rest of the software for your AVDI interface. Once the file is downloaded the installation can begin . The next step you need to take then is to ensure that the AVDI is connected to your computer's USB port using the supplied USB cable. In case the interface is not connected before starting the install you will see the following message:



If you receive this message – please cancel the installation and start over once you have ensured that the AVDI is connected to the computer.

Usually the installation requires you to read the steps that are made and click "Next".

2. Supported third party applications

The compatible third party applications include the following:

- Webasto TT
- Evinrude diagnostics
- Suzuki diagnostic system
- Yamaha marine diagnostic system
- VW/Audi/Seat/Skoda/Bentley/Lamborghini ODIS
- FIAT Examiner
- Toyota/Lexus/Scion Techstream
- Honda/Acura HDS
- Volvo VIDA
- DAS/Xentry Star Diagnosis
- Nissan Consult III+
- Ford Scanner
- BMW DIS over K-line and CAN bus
- BMW E-Sys, INPA, EDIABAS, NCS Expert, NFS over K-line and CAN bus
- Jaguar/ Land Rover IDS
- Subaru Select Monitor III
- Bombardier diagnostic software
- GM Tech2Win, GDS2 and SPS diagnostic software
- HYUNDAI GDS
- KIA GDS
- BMW ISTA-D and INPA

3. Using the Abrites J2534 passthru driver and AVDI with third party software applications

The below descriptions are made based on the assumption that you have a computer or virtual machine with the corresponding software installed. Please note that Abrites ltd. cannot provide the software described below because it is not produced by Abrites ltd.

3.1 Using AVDI interface with "Bombardier Utility Diagnostic System"(BUDS)

In order to use your AVDI as a communication interface between BUDS and Bombardier vehicles you will need to have a computer system with the BUDS software installed.

After that you will need to install "SetupInterface_xxxxxx_PASSTHRU.exe" received for your interface on this system (xxxxx is your interface number).

From the start menu open "START -> Programs -> Abrites Software for IDxxxxx -> ABRITES PassThru Driver" run SetPassThruBUDS.exe. In the cases when using the BUDS in a virtual machine please make sure that the AVDI is connected to the virtual machine.

Make sure the latency timer of the COM port where AVDI interface is recognized is set to 1 You can start the BUDS application.

In case you have an MPI system number you can input that number during the passthru driver's installation as shown below:

😼 Setup - ABRITES Diagnostic Software	
MPI-2 Serial Number	
In case you plan on using the Abrites passthru software with the original software and you have a BLIDS serial number you can write it down her number is the same as the MPI-2 number.	
MPI-2 Serial Number:	
100000456	
< Back Next >	Cancel

When you have installed the passthru driver in the same computer or virtual machine as the BUDS software you can perform the installation of the SetPassThruBUDS.exe file:

SAE SetupPassThruBUDS

The installation will then ask you which interface ID you would like to install the software for:

Select interface	•
Install	
Install	

From this drop down menu please select your interface ID number and press "Install". The following message will be displayed:



This message means that the passthru driver for your interface is installed and is working properly. You can then proceed to using the BUDS software. The BUDS software is now ready to use. It is very important to check that the there is actual communication between the software and the vehicle. The BUDS software has an indicator for the communication:



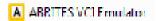
BUDS communicates with the vehicle and diagnostics can be performed:

Read Data	Write Data	۲ Startin	یں اربر	Or	Pen	Sa		Prir			Exit	
Vehicle				Activation	าร	Faults		History]_	Update	<u></u>	
Summary Code	State		Modul	e	C	ount	т	otal Time		Description		
P0107	Active	ECN		·		N/A		N/A		absolute pressure to GND or Open		
P0113	Active	ECM	м			N/A		N/A	Air intake silencer pressure and tempera sensor signal shorted to Battery 12V or Open			
P0118	Active	ECM	М			N/A		N/A	Coolant temperature sensor signal shor			
P0122	Active	ECM	М			N/A		N/A	Throttle p Open	Throttle position sensor shorted to GND Open		
P0231	Active	ECM	М			N/A		N/A	Fuel pum	np relay signal pin s	shorted to GN	
P0485	Active	ECM	М			N/A		N/A	Engine c to GND o	ooling fan relay sig r disconnected	ınal pin shorte	
P0509	Active	ECM	М			N/A		N/A	shorted t			
P1107	Active	ECM	М			N/A		N/A	Manifold Absolute pressure sensor Short to GND or Open circuit			
*P1600	Active	ECM	М			0	0004h1	6	CAN communication information 208 missing			
P1601	Occurred	ECI	м			N/A		N/A	CAN con missing	nmunication inform	ation 514	
Active and Occurred	d Faults 💽	Cle	ear <u>O</u> ccurr	ed Faults			<u>C</u> lea	ar Fault		More <u>D</u> e	ətails	

3.2 Using AVDI interface with Suzuki Outboards Motors Diagnostic System

We assume that you have a system with the Suzuki Outboards Motors Diagnostic System. To use Suzuki Outboards Motors Diagnostic System you should start VCI emulator software and select K-line emulation mode of the first type. You then start the Suzuki Outboards Motors Diagnostic System and it will be available for operation.

Go to the folder where your Abrites diagnostic software is installed and select VCI emulator.



Once you do that the interface will connect to the software. After that you select the VCI emulator type 1 from the drop down menu:

www.abritus72.com	
	-
	Exit
	www.abritus72.com



Once that is done the Suzuki Outboards Motors Diagnostic System will be ready for usage:

Main Menu(F1) File(F2) Save(F3) Window(F4) Hep	9) Exit(F10)	
CURRENT SERVICE CODES		
Failed item Countermea:	re	
No failure		
se "Esc" to close CURRENT SERVICE CODE.		
SERVICE DATA		CTUATOR TEST
Engine Data 👻 Select		#1 FUEL INJECTOR STOP - Go St
ltem	Data Unit	- Description
ENGINE SPEED	0 rpm	Make sure engine is running with shift in
IGNITION TIMING	BTDC 5 °	neutral position.
MANIFOLD ABSOLUTE PRESSURE	338 mmHg	
MANIFOLD ABSOLUTE PRESSURE	45.0 kPa	- Message Are you sure? Click "Go" button for 5-second
MANIFOLD ABSOLUTE PRESSURE	13.31 inHg	actuation.
BAROMETRIC PRESSURE	761 mmHg	
BAROMETRIC PRESSURE	101.4 kPa	Use "UP" and "DN" to select item, then press "G
BAROMETRIC PRESSURE	29.97 inHg	Use "Esc" to close ACTUATOR TEST.
CYLINDER TEMPERATURE	-50 °C	
CYLINDER TEMPERATURE	-58 °F	
INTAKE AIR TEMPERATURE	47 °C	
INTAKE AIR TEMPERATURE	117 °F	
BATTERY VOLTAGE	13.52 V	
FUEL INJ. PULSE WIDTH	0 µs	
INJECTED FUEL AMOUNT	0 mcc	
HIGH FUEL PUMP DUTY	0.0 %	
IAC VALVE DUTY	100.0 %	
EX-MANI TEMPERATURE	-50 °C	
EX-MANI TEMPERATURE	-58 °F	
THROTTLE POSITION ANGLE	4.88 '	

3.3 Using AVDI interface with Nissan Consult III+

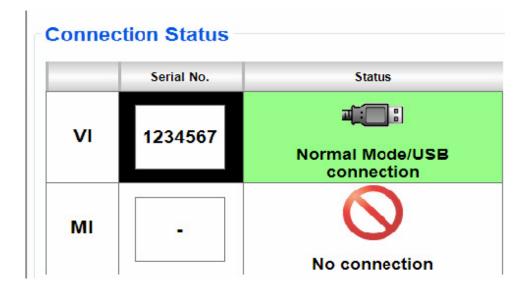
When using your AVDI with the Nissan Consult III+ the first step you need to take is to install the Abrites passthru software on the computer where the Consult III+ is installed, then you need to make sure that the AVDI is connected to the same computer and that it is recognized. After that you need to start the Consult III+ software and click the "Select VI/MI" button:

CONSU	ILT-III plus Ver.34.11	VIN:-	Vehicle : -	Country : Bulgaria
Dack	Ilome Print Se	screen Capture	t Recorded Data	× × =
Conne	ction Status		Diagnosis Menu	
	Serial No.	Status	Diagnosis (O	ne System)
VI	-	\otimes		
		No connection	Diagnosis (A	II Systems)
м	-	\otimes		
		No connection	Re/programm	ning, Configuration
8 03	Select VI/MI			
10			Immobilizer	
Applica	tion Setting			
SUB	Sub mode	ABC Language Sett	Maintenance	
				1
07	VDR			

After that you you need to make sure that the 1234567 interface is selected. Do not select "Connect", instead just close the window

CONSULT-III plus Ver.34.11	VIN:-	Vehicle : -	Country : Bulgaria
Select VI/MI	121 1	0 AX	
VI		MI	
1234567	Normal Mode		
	USB connection		
			Refresh
			Connect
	1/1	0/0	
Status	Select VI of	pr/and MI and touch "Connect".	
Progress			0%

Then you will be able to see the that the connection status light goes green and the "Normal Mode/USB connection" will be indicated under "Connection status":



Nissan Consult III+ will be ready to use:

G CONSULT-III plus	Ver.34.11	VIN:-	Vehicle : -		Country : Bulgaria
Back Home	Print Screen	Screen Capture	ment Recorded Help	- VI M	
Diagnosis (One System)	Syster	m Selection	ENGINE		
Self Diagnostic Result P1615 DIFFEREN		Erasing was cor sure that Self Dia	npleted. Touch "Close" butto agnostic result is deleted.	Ŧ	n ()
			Close		Print
					Save

3.4 Using AVDI interface with Jaguar/Land Rover Symptom Driven Diagnostics

In order to use the JLR SDD system you need to make sure that the Abrites passthru driver is installed on the same computer as the SDD system. After that you need to make sure that the AVDI is connected to the same computer or virtual machine.

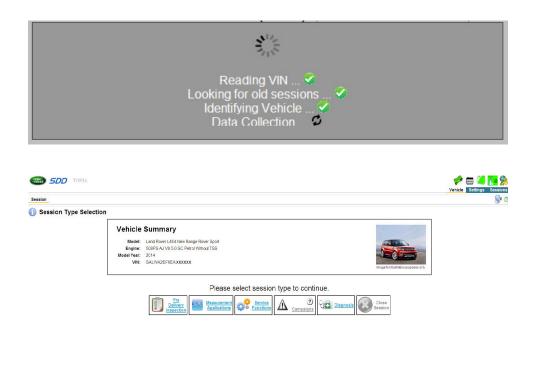
After you have installed the Abrites passthru software you need to restart the system.

When you restart the system please start the SDD software. When you do that you will need to make sure that the "VCI- 2534" is connected in the bottom right side of the SDD application.

Then in the TOP right you will see the connection status of the AVDI to the SDD.

Now you can start working with the software:

New Range Rover Sport (L494) 315914 - 07 Dec 2015 16:09 (DVD138.00 v.)



IMPORTANT: It is mandatory to run the third party applications as Administrator using the right click button on the .exe file and selecting "Run as administrator".

The VSI-2534 is connect

3.5. Using AVDI interface with Toyota Techstream

In order to use the AVDI interface with the Toyota Techstream software you need to install the Abrites passthru software in the computer where you have the Techstream software installed and make sure that your AVDI is connected to the same computer.

Next you need to start the Techstream software and go into the "VIM Select" menu. From the drop down menu please select AVDI – PT XXXXXX where "XXXXXX" is the number of your interface:

🕐 Techstream (Ver 9.10.037)		
File Function Setup TechDoc User Help		
Connect to Vehicle Open Scan Data File ViM Select (2999-05)		
Generic OED I User Selection Language Selection Language Selection Language Selection Language Selection Language Sci A, ENGINE SCI A, TRAINS SCI B, TRAINS SCI B, TRAINS SCI B, TRAINS SCI B, TRAINS SCI B, TRAINS	TIS Techstream VIM VSI/2534 VVD/PT vour interface ID TIS Techstream VIM AVDI MDI SPX-MVCI	
Log Out	OK Cancel	C. The
Ver 9.10.037		

IMPORTANT: It is mandatory to run the third party applications as Administrator using the right click button on the .exe file and selecting "Run as administrator".

Once that is done Techstream is ready to work:

One Description PR01 Cannabl Revision 'B' Actuato Cinck (Bash ') PR01 Mass AP Inspectation Cinck (Bash ') PR01 Bash AP Inspectation Cinck (Bash ') PR01 Bash AP Inspectation Cinck (Bash ') PR01 Broke Const. The product Cinck (Bash ') PR01 Broke Const. The product Cinck (Bash ') PR02 Throtels-Park Pactors Sensol Study. 'Y Const. High Input PR03 Cannabl Pacific Sensor. 'B' Cinck High Input PR04 Cannabl Pacific Sensor. 'B' Cinck High Input (Bash ') Single Sensor) PR05 Cannabl Pacific Sensor. 'B' Cinck High Input (Bash ') Single Sensor) PR05 System 'Class' Sensor', 'Class' High (Pach ') PR05 System 'Class' Class' High (Pach ') PR05 System 'Classensort, High (Pach ')	View Monitors								
PN01 Cannada Pasinan 'B' Actuator Decis. Open Bark () PN02 Mask A Programma Cock. Open Bark () PN03 Mask A Programma Cock. Mp Papel PN03 Expert Core of Tegen Action Science 'A Cock. Mp Papel PN03 Expert Core of Tegen Action Science 'A Cock. Mp Papel PN03 Tested Paralements - Cock. Mp Input PN04 Consta Paralements - Cock. Mp Input PN03 Consta Paralements - Cock. Mp Input PN04 Deste Paralements - Cock. Mp Input PN04 Deste Paralements - Cock. Mp Input PN05 Experime Testerine Cross Tege Cock. Mp Input PN05 Experime Testerine Cross Tege Cock. Mp Input PN05 Experime Testerine Cross Tege Cock. Mp Input PN05 Station 'NY Teg' Constaine PN06 Station 'NY Cock Tege Papel PN07 Station Station 'NY Cock Tege Constaine PN07 Station Station 'NY Tege Constaine PN07 Station Station 'NY Cock Tege Constaine PN07 Station 'NY Cock Tege Constaine PN07 Station 'NY Cock Tege Constaine	Currer	Cur	rent Fendir	ral History	Permarent				
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P010 Halar AF Temperature Orcet High Hyud @ P019 Ergen Casar Temperature Orcet High Hyud @ P019 Ergen Casar Temperature Orcet High Hyud P0201 Temperature Area Parolise Senset-Sector X* Orcet High Hyud P0304 Cannab Area Parolise Senset X* Orcet High Hyud P0405 Cannab Area Parolise Senset X* Orcet High Hyud (Birk 1) P0408 Cannab Area Parolise Senset X* Orcet High Hyud (Birk 1) @ P0404 Back Back ArX X*00 Consider @ P0404 Back Back ArX X*00 Consider @ P0404 Back Back ArX X*00 Consider @ P0405 Tememission Range Senset Orcet (FMICL Hyud) @ P0406 Byte Ark X*000 Consider @ P0407 Shift Baland X* Consider Hyud @ P0408 Byte Ark X*000 Consider @ P0409 Byte Ark X*000 Consider @ P0400 Byte Ark X*000 Consider @ P0401 Bit Baland X* Consider Hyud @ P0401 Bit Baland X* Consider Hyud @ P0402 Bit Baland X* Consider Hyud @ P0403 Bit Baland X* Consider Hyud @ P0404 Bit Baland X* Consider Hyud @ P0405 B	×	,	x x	x					
P019 Pgins Cosa et Temperature Orcit High Input P019 P019 Cosa et Temperature Orcit High Input P014 Seater State Stat	X	,	x x	x					
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PDA3 Cambat Poston Sensor // Cimule High Pool (Bark 1 or Single Sensor) PDA3 Cambat Poston Sensor // Cimule High Pool (Bark 1) PD43 Exponsite Entrain Control System Presson Sensor Sentech High Pool PD443 Exponsite Entrain Control System Presson Sentech High Pool PD445 System Voltage PD456 System Voltage PD457 Transmission Range Sensor Circuit (PERCL Pool) PD474 Site Solenck // XC Control Circuit High PD475 Transmission Range Sensor Circuit (PERCL Pool) P0474 Site Solenck // XC Control Circuit High P0475 Transmission Range Sensor Circuit (PERCL Pool) P0476 Site Solenck // XC Control Circuit High P0478 Site Solenck // XC Circuit Circuit High P0479 Site Solenck // XC Free Microit Circuit High P0470 Site Solenck // XC Free Microit Circuit High P0471 Site Solenck // XC Free Microit Circuit High P0473 Transmission Range Sensor Circuit High P0474 Site Solenck // XC Hight Circuit Hight Circuit Hight Circuit Circuit Hight Circuit Circuit Hight Circuit Circuit Hight Circuit Circuit Hight Circuit Circuit Hight Circui	x	,	x x	x					
P008 Constat Partice Series "S Circuit High legal (Bark 1) P443 Expensive Enrise Circuit System Pressure Series Series Seatch High legal 0 P644 State Seatch Y/S* Constance 0 P645 State Seatch Y/S* Constance 0 P6464 State Seatch Y/S* Constance 0 P6464 State Seatch Y/S* Constance P6765 Transmission End Of Control Circle (PRIC), Noull P6776 State Solecth 'G Control Circle (PRIC), Noull P6777 State Solecth 'G Control Circle High P6718 Threets/Pecal Parking Seasor Circle (PRIC), Noull P6719 Threets/Pecal Parking Seasor Circle (PRIC), Noull	х	,	x x	x					
P443 Exportation Control System Pressure Stream Strea	x	2	x x	x					
P664 Basks Sech %/19" Constant P665 System Voltage P676 System Voltage P677 Srint Second W Control (P670C, Npur) P677 Srint Second W Control (P670C, Npur) P675 Nexter/NPur Second W Control (P670C, Npur) P675 Nexter/NPur Second Second %/1" (Voltage Constition	x	>	x x	x					
PIG00 System Veltage PI076 Transmission Rangi Seless Orcusit (PRICL Input) PI071 SHR Solencid Y: Control Creak High PI071 SHR Solencid Y: Control Creak High PI071 Shreeta Piccula Puscion Sensura Solitch: 'K' / B' Voltage Canadian PI073 Threeta Piccula Sensura Solitch: 'K' / B' Voltage Canadian	x)	x x	×					
P015 Tremmission Range Sensor Cacult (PRICE, You)(P0174 Sin & Solecult (* Control Topical High P0177 Sin & Solecult (* Control Concel High P0178 Therefore Pacial Processe Solech "K" // B" (Voltage Carvelation	×	2	ĸ	×					
P0974 Srift Selence'/X Control Creat High P0977 Srift Selence'/X Control Creat High P2156 Thorstin-Pecal Poston Senson-Skitch 'X' /'B' Vyhtage Convelition	×	2	x x	x					
PH077 Shift Solmod 'B' Control Cryst High P1156 Throatle/Piccil Polition Sensol/Suitz 'K' / B' Votage Constition			х						
P2135 Throttle Pecal Position SensorSwitch "X" / 'B' Voltage Correlation	×	,	x x	×					
	×	2	x x	x					
P2138 Throttle/Pecal Position Sensor/Switch 10" / "E" Voltage Corelation	×	2	x x	x					
	x	,	x x	×					
B2799 Ergine Immobilise System	x)	x	x					
			_	-					

3.6. Using AVDI interface with ODIS

In order to use your AVDI interface with the Volkswagen AG Off-board Diagnostic Information System you need to make sure that the Abrites passthru driver is installed in the same computer or virtual machine as the ODIS.

When you are using your AVDI with the engineering information ODIS software the J2534 connection will automatically be connected.



IMPORTANT: It is mandatory to run the third party applications as Administrator using the right click button on the .exe file and selecting "Run as administrator".

In the cases when you use the diagnostic ODIS software the procedure requires the following steps. You have to make sure that the Abrites passthru software and the ODIS software are installed in the same computer. Then start the ODIS software and:

Go to the "EXTRAS" menu and select "Diagnostic interface":



SELECT "CHANGE VCI"



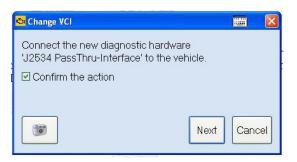
SELECT "CONFIRM THE ACTION" AND PRESS "NEXT"



Choose the J2534 Passthru and click select.

Diagnostics hardware type	9	Serial number	ID
Notebook/PC mit Funkkopf VAS 5054 Notebook/PC mit VAS 5055			
J2534 PassThru-Interface			
Notebook/PC mit VAS 6154			

Click next and return to the ODIS main screen to perform diagnostics.



The ODIS is ready to work:

Veh. connection: J2534 Veh. status: Term.30	Audi
Venicle project:	Modes *
	😵 Diagnosis
Diagnostic function	Protocol ¥
Fault memory	Diagnosis ×
- Measured values - Adaption	
Default setting Write data record	3ZD ¥
- Actuator diagnosis	Macros ×
-Access authorisation	Trace ¥
 Diagnostic session Memory cells 	l de la
	Venicle project: Automatic DolP DolP Dagnostic function Fault memory Measured vaues - Adaption Default setting - Write data rescrc - Actuator diagnosis Code - Access authorisation - Diagnostic session

3.7. Using AVDI interface with Subaru Select Monitor III

In order to use the Subaru SSMIII software together with your AVDI you need to have the SSM software on the same computer as the passthru. Both need to be installed. You need to go to the passthru folder and select the "SetpassthruSUBARU", start it and let it install:

SctPassThruSUBARU

The software will let you select the AVDI to install the passthru for. Select the one for your AVDI:

Select interface	Your AVDI ID	-
Install	Ċ.	

Once you do that your AVDI and the SSMIII are ready to use. Please note that there will be an error message in regards to the CF card. This will not interfere with the work of the system.

🐼 SUBARU	SUBARU Select Monitor III SDI - 3.0 DOHC 📃 🖻 🔀												
Ele View Iool Help													
FI	FPClear	EB	F4	<u>F5</u>	[FE]	<u>F7</u>	E8Print	F9Save	<u>[1][</u>	FII]Manual	FI7Ext		
Code	Des	cription 8	trouble po	sition									
Memoriz	red Diagno	stic Cod	e(s) Numb	er of Diagr	nostic Code	e(s) [.] I							
☑ P042	0 Cata	alyst Syst	em Efficier	cy Below	Threshold								

3.8 Using AVDI interface with Hyundai/ KIA GDS

In order to use your AVDI and the Abrites passthru you need to go to the start menu "START -> Programs -> Abrites Software for IDxxxxx -> PassThru" run SetupPassThruHyundai.exe (xxxxx is your interface number).

^{SAE} SetPassThruHyundai

And then the following screen opens:

	/our AVDI ID	•
·-		

You can start the Hyundai/ KIA GDS application. Please note that a MANUAL VIN number input is needed, read it from the car's ID plate and input it, otherwise you will face issues while using the software. After that the GDS software is ready to use:

GDS VIN Search	C vci off	🔍 VMI Off 🦳 Interne	at : On
To search vehicle, F	Please insert VIN	ch	Clear Previous Vehicle
GENESI	S COUPE(BK)	2013	G 3.8 DOHC
System			
	Select System	Select All	Selected System Clear All
x			Automatic Transaxle
	ESP AIRBAG AIR/CC	N BCM	Air Conditioner
	AHLS CODE	~	Transmitter Code Saving
			CODE
G	Froup		Symptom
Fault C	ode Searching	ок	Cancel

3.9 Using AVDI interface with Honda Diagnostic System

In order to use the Abrites Vehicle Diagnostic Interface together with the Honda HDS software you need to:

- Start Honda Diagnostic System.
- Press F12.
- From the field "Comms Interface" select SPX-MVCI.
- Your application is ready for work.

IMPORTANT: It is mandatory to run the third party applications as Administrator using the right click button on the .exe file and selecting "Run as administrator".

3.10 Using AVDI interface with Volvo VIDA

Be sure that your system is fully working. On the right corner of your taskbar you have two icons (one for SQL server and one for VIDA which should be in status Running).

REPORT ERRORS VEHICLE DETAILS HELP	START	VEHICLE PROFILE
VEHICLE PROFILE	CSC	
Communication tool	From the dropdown list select AVDI-PT Your AVDI Interface ID.	

Make sure to select the ID of your AVDI from the drop down menu. You need to use AVDI – PTXXXXXX where XXXXXX is your AVDI ID.

The VIDA is ready to work:

C V40 Cross Country, 2014, 002047	6, YV1NZ5150E2046950, 046950, VIDA20	114A, en-US - Windows Internet Ex	pbrer				
😋 💽 🔹 👔 http://kcahost/iidu/Login	dogerssionidsPSPC/siRAP-gb/kmsREI485. undefined						💌 🖻 😽 🗶 Die Sauch
File Edit Wev Pavantes Tools Help	,						
🚖 Poverkes 🛛 🏤 🙋 Suggested Stes 🔹	2 Web Sice Galery .						
6 V40 Cross Country, 2004, D520416, W1ND	251506204						💁 • 🖸 · 🖬 🖶
REPORT ERRORS VEHICLE DETAILS				-	1, INT	1, INT	1, 197 1 106 007
HELP	START VEHICLE	PROFILE	INFORMATION		WORK LIST	WORK LIST DIAGNOSTICS	WORK LIST DIAGNOSTICS SOFTWARE
VEHICLE PROFILE CSC	and the second						
Communication tool	SURATION						
AVDI-PT XXXXXX · > CONFIG	SURATION						
		-		-			
VIN Chassis				()			
VV1M2515 X000000			0				
			-				
*Hodel	"Model year ("manda	tory) Partner group					
V40 Cross Country	2014	INT, Arabia and China	~				
Engine T D5204T6	Transmission Steering	Body style	Special vehicles				
		CLEAR VEHICLE PROFILE	> DK				
		> CLEAR VEHICLE PROPILE	> DK				
Latest identified vehicles							
Model Model year	VIN Lice		munication tool -PT 1000000				
V40 Cross Country 2014 V40 Cross Country 2014	YV1M2515 X0000X	AVDI					
0							

3.11 Using AVDI with Yamaha Outboards Motors Diagnostic System

To use Yamaha Outboards Motors Diagnostic System you should start VCI emulator software and select K-line emulation mode of the First type.

A ABRITES VCI Emulator 1.1	www.abritus72.com	
Please, select interface for emulation		
K-Line 1 (COM1-COM2)		▼
Start		Exit

You can then start the Yamaha Outboards Motors Diagnostic and it will be ready to work:

YAMAHA DIA	Command Confirmation
Main Menu	Diagnosis record available.
Diagnosis	
Diagnosis Rec	
Engine Monito	
Stationary Tes	Press Enter to go to Main Menu.
Active Test	ок
Data Logger	
Some Files	7
Exit	8
Click or	press the 1 - 8 keys to select a menu.

3.12 Using AVDI interface with GM Tech2Win Diagnostic System

In order to use your AVDI with the GM Tech2Win diagnostic system you need to have an account with the global TIS. This can be done by performing a security access via the GlobalTIS website.

The Tech2Win applies to "Opel" vehicles. First you must ensure that the COM port in Tech2Win configuration is set properly. In the Tech2Win configuration menu select Modify/View and the click on the button "Opel".

Start	Modify / View	Create new
ase choose a configuration (now	
default	opel	

Then click on the Vehicle Communication Interface and select COM port for Tech2-RS323 Emulation. You must select a COM port which is not in use.

This means the selected COM port must not be in the list **"The following serial ports are Detected:"** (made in red on the screenshot). After COM port selection save the configuration.

Tech2Win-Configurator> modify con	figuration for opel		
Path Vehicle Communication Interface Lar	nguage Display		
COM-port for Tech2-RS232-Emu The following serial ports are detected COM1_COM2_COM6 Normally, a nonexistent COM Port must Serial Number of Vehicle Comm	t be selected.		
AVDI		6 7	
Protocol © ISO22900 2 / PDU API © J2534-2		mpty 8 9	
			Next
Save opel	PC-Keyboard	Cancel	

Run Tech2Win and wait until the main screen is displayed:

TECH2 SCREEN	Æ	ŕ	
	K		YES
	+	ENTER	\rightarrow
	EXIT	₩	NO
	۶O	F 1	⊧2
32 Megabyte	F 3	F 4	F 5
	⊦ 6	+7	+8
Press [FNTFR] to continue. Software Version: 126.000 Upel/Vauxhall 1997 - 2011	F Q ur license ha	EXIT s expired	ENTER
▐▓▋▓▋▓▋之 ▓▋	?	SHIFT	PWR

Run GlobalTIS.

In GlobalTIS click on Security Access (Security).

In GlobalTIS, Security click on the button **Start Download**.

This will run Security Access wizard.

When its main window is displayed click on the button Next.



Security Access (Security)

Security Access		_O×
	Please select the device Device: Tech 2	•
Settings		Next >> Cancel

When the activation finishes you will see the following window:



After a successful security access inTech2Win you can see an open lock on the right side of the status bar. Inside the bracket you see the number of days the license is valid. When you start Tech2Win again the security indicator is not displayed as long as no vehicle communication is being performed. During the first communication with a vehicle the license will be checked and the indicator displays either an open or closed lock.

3.13 Using AVDI interface with BMW – EDIABAS INPA WINKFP NFS NCS EXPERT

Diagnostic System

We assume that you have a working system with installed EDIABAS.

Download and install latest passthru drivers for BMW-EDIABAS (for example pttbmw_2.1.0.0.exe).

From start menu run the program "START -> All programs -> BMW PassthruD x.x.x.x -> PassthruD Configuration".

Select your AVDI interface and set the checkbox about baud 115200.

Copy all files from the folder "\Program Files\BMW AG\PassThruD" to the folder "\EDIABAS\BIN" except the file "EDIABAS.INI"

Open your "\EDIABAS\BIN\EDIABAS.INI" in "NOTEPAD" and replace the string "Interface = STD:...." with the string "Interface = STD:passthrud".

3.14 Using AVDI interface with Fiat Examiner

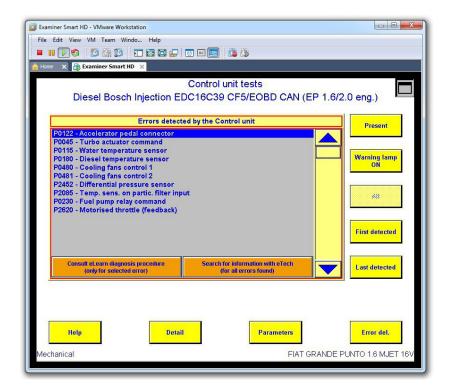
Examiner Smart HD Emulator is a tool which makes the connection between EXAMINER SMART HD diagnostic software running in a virtual machine and the vehicle. Supported communication protocols are CAN (BCAN and CCAN on OBD2 pins 6, 14 and 1, 9) and Kline (on ODB2 pin 7 using Keyword 2000). When you run the Emulator application, it will try to make a connection with the virtual machine showing the status "Waiting for connection...". When the connection with the virtual machine is successfully established the status will change to "Connected". When the status of the Emulator tool becomes "Connected", the EXAMINER SMART HD running in the virtual machine is ready for use.



Examiner Smart HD - VMware Workstation			
File Edit View VM Team Windo Help	1		
Home 🗙 🛅 Examiner Smart HD 🗙			
Examiner Smart HD			Antonio Ala China Vicia Actività en Indiana
State: Suspended			EXAMINER Annu HD.
Guest OS: Other			Language Coloris to many in Coloris/An ungage
Location: C:\VMWARE\Examiner Smart H			Continue - Cont to part of the spectrum to be particular of the spectrum of th
Version: Workstation 6.5-7.x virtual man	thine		LANKE LANKS LANK
Commands	Devices	Options	
Resume this virtual machine	Memory	512 MB	
Edit virtual machine settings	Processors	1	
D a li sert i	Hard Disk (IDE)	8 GB	
Enable ACE features	CD/DVD (IDE)	Auto detect	
	Network Adapter		
	USB Controller	Present Auto detect	
	Serial Port	Auto detect Using named pipe \ \pipe\examiner	
	Display	Using named pipe \ \pipe \examiner Auto detect	
	Dispidy	Auto detect	
Notes			
Type here to enter notes for this virtual machine.			
	-		



Examiner Smart HD - VMware Workstation	•		
File Edit View VM Team Windo		1 (m) (m)	
🔒 Home 🗙 📑 Examiner Smart HD 🗙			
	Control	unit tests	
Diesel Bosch Inj	ection EDC16C39	9 CF5/EOBD CAN (EP 1.6	/2.0 eng.)
HW number	0281015572	ISO code	FD 86 67 07 46
SW number	1037500041	FIAT drawing	51853792
Programming date	21/10/08	Homologation number	1994A
Engine speed		Accelerator position	
	0 Rpm		0 %
Air mass measured		Total Quantity Diesel	
	0 mg/injec.		0 mm3/injec
Diesel press. measured		Vehicle version	WEE
Diobor probb. modelarou	270 bar	with DPF and Lambda s	ensor
Town & diversity of the		Easter status	Exi
Target diesel pressure	270 bar	Engine startup	lowed
	270 bai		lowed N
	12000		
	Errors	present	2
1911 C 2011 St 1			Ĵ
Help	Errors	Act. Diag. Select	
пер	LITUIS	Aut Diag.	End Smart HD
Mechanical		FIAT GRANDE	PUNTO 1.6 MJE



3.15. Using AVDI interface with BMW DIS

The BMW DIS system can be used on both a virtual machine and a regular computer.

To use DIS with AVDI interface you should perform the following steps:

1. Change the IP address of the first VMWare adapter to 192.168.68.1:

Open windows explorer.

Type in the address bar the following "C:\Windows\System32\ncpa.cpl" and press Enter.

📮 Computer		
C:\Windows\\$ystem32\ncpa.cp	💌 🔁 Search Computer	<u>.</u>
Organize System properties Uninstall or change a program Map network drive Open Control Panel	L P L P	• 🔟 🔞

In the opened window right click with the mouse over "VMware Network Adapter VMnet1" and choose properties.

rganize Disable this network device Diagno	Status	n View status of this connection Change	Connectivity	Network Category
Local Area Connection	Unidentified network	Intel(R) 82577LM Gigabit Network	No Internet access	Public network
VMware Network Adapter VMnet1	Unidentified retwork	VMware Virtual Ethernet Adapter f	No network access	Public network
Wiware Network Adapter VMnet8 Wireless Network Connection	Uniden Diaable Status Diagnose Bridge Connections Create Shortcut Didetre Rename Poperties	VMware Virtual Ethernet Adapter f Intel(R) Centrino(R) Advanced-N 6		Public network

Select "Internet Protocol (TCP/IP)" (or it might be "Internet Protocol Version 4 (TCP/IPv4)" depending from windows version) and click Properties.

☑						
🗹 📮 Qp S Packet Scheduler						
Internet Protocol (TCP/IP)						

Internet Protocol Version 4 (TCP/IPv4) Link-Layer Topology Discovery Mapper I/O Driver	🖞 🖳 Client for Microsoft Net	works
	🖳 🖳 VMware Bridge Protoco	ol
	Ele and Printer Sharing	for Microsoft Networks
- Link-Layer Topology Discovery Mapper I/O Driver		
	Internet Protocol Versio	A (TCP /IP., 4)
		114 (101711 V4)
🗠 🛶 Link-Layer Topology Discovery Responder		
	🛾 🛶 Link-Layer Topology Di	iscovery Mapper I/O Driver
Install Uninstall Properties		iscovery Mapper I/O Driver iscovery Responder

Select "Use the following IP address". Enter IP address 192.168.68.1, Subnet mask 255.255.255.0

Internet Protocol Version 4 (TCP/IPv	r4) Properties	? X
General		
You can get IP settings assigned autor this capability. Otherwise, you need to for the appropriate IP settings.		
O Obtain an IP address automatical	ly	
- • Use the following IP address:		
IP address:	192.168.68.1	
Subnet mask:	255 . 255 . 255 . 0	
Default gateway:	• • •	
O Obtain DN5 server address autor	natically	
─● Use the following DNS server add	resses:	
Preferred DNS server:		
Alternate DNS server:		
Validate settings upon exit	Advanced	

From start menu "Start -> All Programs -> ABRITES Software for ID XXXXXX" select "ebridge" (XXXXXX is the number of your AVDI interface).

Make sure the interface is recognized. If it is not recognized you will be informed with the following message:



If the interface is recognized the following window will appear:

Connected PIPE <> 1700E5	_ 🗆 🗙
CAN 500 Kb/s ▼ C KLine	DIS DiaqHead

Choose CAN or Kline. Click on "DIS DiagHead". Choose "Run" in the menu of the newly opened dialog.

🆀 BMV	V Diayno	ostic Head	V1.2			_	
E Run	Stop	Options	Copy Log to Clipboard	About	Exit		
		Р	ROCESSING COMMAI	NDS FLO	w		
Test LE	D-	Discon	nected				
Test LE	D: 0	Discon	necteo				

Start VMWare and play VM with DIS.

From the VMWare menu select "Virtual Machine" -> "Removable devices" -> Network adapter -> Connect. Do this for all Network adapters (1,2,3, etc.).

🤏 DIS v55.0 - VMware Player 🕫 🔹	Virtual Machine 👻 Help 👻				_ 🗆 ×
Print Change	Virtual Machine Settings Ctrl+D Removable Devices	CD/DVD (IDE)	•		Help
Diagnosis and Inform	Enter Unity	Floppy Network Adapter	Connect		
Diagnosis and inform	Power Send Ctrl+Alt+Del	Network Adapter 2 Network Adapter 3			
	VMware Tools Unavailable				TIS

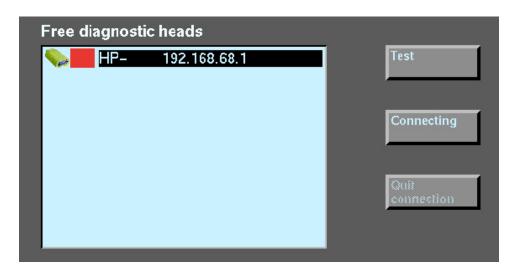
Go to VM with DIS and press button "Administration" at the bottom right corner.

In the new window press "Connection setup" button.





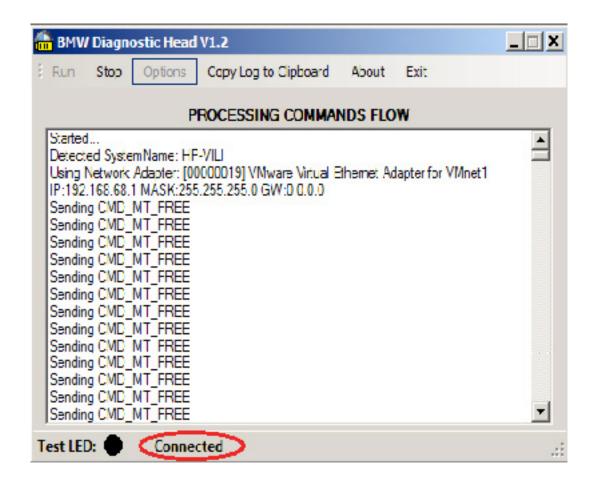
In the new window below "Free diagnostic heads" you should see the name of your host PC followed by the IP address 192.168.68.1.



Click over it and press "Test". Press "Connecting". After a connection is established press the arrow button in the bottom left corner.



You should see that on the bottom of the "BMW Diagnostic Hed V1.2" the status is "Connected":



You can start your work with DIS diagnostic system through your AVDI interface.

In the cases where you would like to use the DIS via passthru you need to do the following:

The initial configuration is done only once.

After it is performed only steps from "5.3.2. Usage" should be performed.

Download and install latest passthru drivers for BMW-EDIABAS (for example pttbmw_2.1.0.0.exe – drivers are also available for download from Open with "NOTEPAD" your "\Program Files\BMW AG\PassThruD\ EDIABAS.INI" and replace the string "Port= " with the string "Port=6801".

From start menu run the program "START -> All programs -> BMW PassthruD x.x.x.x -> PassthruD Configuration".

Select your AVDI interface and set the checkbox about baud 115200.

1. Open windows explorer.

Type in the address bar the following "C:\Windows\System32\ncpa.cpl" and press Enter.

🖓 Computer	
C Windows (System 32 /ncpa.cp)	Search Computer
Organize 👻 System properties Uninstall or change a program Map network drive Open Control Panel	ut - 🚺 🔞

In the opened window right click with the mouse over "VMware Network Adapter VMnet1" and choose properties.

Retwork Connections				_ 🗆 🗙
Control Panel + Network and Internet + N	Network Connections 👻		 Search Network C 	onnections 😥
Organize Disable this network device Diagnose this co	nnection Rename this connection	View status of this connection Change	e settings of this connection)= - 🔟 🔞
Name ^	Status	Device Name	Connectivity	Network Category
Local Area Connection	Unidentified network	Intel(R) 82577LM Gigabit Network	No Internet access	Public network
Williams Network Adapter Winet1 Winet8 Wineless Network Connection	Unidentified network Uniden Disable Disable Status Diagnose Bridge Connections Create Shortcut Delete Rename Properties	Wiware Virtual Ethernet Adapter f Wiware Virtual Ethernet Adapter f Intel(R) Centrino(R) Advanced N 6		Public network Public network

Select "Internet Protocol (TCP/IP)" (or it might be "Internet Protocol Version 4 (TCP/IPv4)" depending from windows version) and click Properties.

🛽 🖳 Client for I	/licrosoft Networks	
🛛 🚚 File and Pi	inter Sharing for Microsoft	Networks
🛛 📮 🗛 🖓 🖓 🖓		
Internet P	otocol (TCP/IP)	

VMware Uridge I'rotocol II thic and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link Layer Topology Discovery Mapper I/O Driver Link-Layer Topology Discovery Responder	Olient for Mic.	rosoft Networks
Hic and Printer Sharing for Microsoft Networks Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link Layer Topology Discovery Mapper I/O Driver	SVMware Urid	ge l'rotocol
Internet Protocol Version 6 (TCP/IPv6) Internet Protocol Version 4 (TCP/IPv4) Link Layer Topology Discovery Mapper I/O Driver		
- Link Layer Topology Discovery Mapper I/O Driver		
- Link Layer Topology Discovery Mapper I/O Driver	-Internet Prote	col Version 4 (TCP/IPv4)

Select "Use the following IP address". Enter IP address 192.168.68.1, Subnet mask 255.255.255.0.

Internet Protocol Version 4 (TCP/IPv	4) Properties	? X
General		
You can get IP settings assigned autom this capability. Otherwise, you need to for the appropriate IP settings.		
C Obtain an IP address automatical	ly	
Use the following IP address:		
IP address:	192 . 168 . 68 . 1	
Subnet mask:	255.255.255.0	
Default gateway:		
C Obtain DNS server address auton	natically	
Use the following DNS server add	resses:	
Preferred DNS server:		
Alternate DNS server:		
Validate settings upon exit	Advanced.	

From start menu go to "Start -> All Programs -> ABRITES Software for ID XXXXXX" select "DiagHead" (XXXXXX is the number of your AVDI interface).

Press "Run". From start menu run the program "START -> All programs -> BMW PassthruD x.x.x.x -> IFH Server". Start VMWare and play VM with DIS. If you see in the following picture in upper right corner:



i.e. both rows lighted then DIS system is connected to the host machine. You can start your work with DIS diagnostic system.



3.16. Using AVDI interface with DAS/ Xentry

In order to work with DAS/Xentry via AVDI you need to have your AVDI installed in the location of the DAS/ Xentry software (virtual machine or regular computer). When the Passthru software is installed go to the passthru folder and select the passthru for DAS:

241 SetPass IbruDAS

After that select your AVDI ID (normally it is automatically selected):

Select interface	Your AVDI ID	.
Install		

Then select and run the passthru icon which would appear on the desktop. You can then start the DAS/ Xentry application. When you start the application please go to the passthru folder and double – click on the "DASignition" icon:



Then set the ignition status on the window to "ON". This will allow the software to communicate with the vehicle:

Once this step is complete you can use		
the DAS/ Xentry system.	Vehicle Ignition Sta	ite _ 🗆 🗙
	• ON	○ OFF

3.17 Using AVDI interface with the Rheingold ISTA-D

Using the Abrites passthru driver you can use the Rheingold ISTA- D using a virtual machine. When starting work with the Virtual machine please install the Abrites passthru driver in the virtual machine and make sure the AVDI is connected to the VM via the shareable USB.

1. Make sure to start the Passthru config icon:



2. Select the number of your AVDI and use the "PT" option where "XXXXXX" is your AVDI ID

BMW PassThru Driver Configuration Tool	×
J2534-1 PassThru Device Se	lection:
Abritus72 AVDI PT XXXXXX	•
Abritus72 AVDT ODIS XXXXXX	
Abritus72 AVDI PT XXXXXX	
ETAS - ETAS VCI SPX-Device1	Select this option
Configuration	Launch Config. Tool
	OK Cancel

3. Start ISTA-D and you are ready to use the software:

RHEINGOL	D		> / E	ø 🖂		? 👤
IN: VAXXXXXX	Vehicle: 3'/E90/SI	EDAN/320d/M47/AUTO	/EUR/LL/2005/09		KL 15: -	
Operations	Vehicle information	Vehicle management	Service plan	Favourites	Workshop/ Operating fluids	Measuring devices
Vehicle details	Repair history	Control unit tree	Control unit list	Operations report		
KOMBL			206	- 00		
CAS		09-333		DSC -		
	- CON			EG	s	
RLS <mark>—</mark> FZD	340CA	Ongoing background p	VACASS		X	
PDC		FASTA data reading		Ŀ		
	- MRS					
	FRM					
	AN INTERNAL	-				
Fault memory 1		Ecu without fault m	emory 🖲 Ecu with fa	ult memory	Ecu not responding	Ecu state unknow Display fault

NB! The same applies for INPA

4. Virtual Machine Setup

In case you decide to use the AVDI and any OEM software on a virtual machine you will need to take into consideration the following:

1. Always make sure that your AVDI is connected to the virtual machine and not the host computer. Many VM products will indicate that. In the example below you can see that the AVDI is shown as a USB device.



Once your AVDI is recognized by the virtual machine you can transfer your passthru drivers onto the VM. After that you need to follow the instructions for installation depending on which software you would like to use in the virtual machine.

From the main menu of the VMware player, select "Virtual Machine" \rightarrow "Removable devices" \rightarrow "future devices avdi interface Vvxxx" \rightarrow "Connect (Disconnect from host)".

VMware Player File 🔻	Virtual Machine 👻 Help 👻	_ @ X	
	Virtual Machine Settings Ctrl+D		
	Removable Devices	CD/DVD (IDE)	F
	Enter Unity	Floppy Vetwork Adapter	• • • • • • • • • • • • • • • • • • •
	Power Send Ctrl+Alt+Del	✓ Printer Sound Card	:
	Reinstall VMware Tools	validity sensor (vfs451)	•
		chicony hp webcam [2 mp macro]	b
		future devices usb <-> serial	F
		future devices avdi interface 1700c5	 Connect (Disconnect from host)
		Samsung S2 Portable Virtual RICOH Company, Ltd. RICOH SmartCard Reader 0	Change Icon Show Icon in Status Bar

In some cases you will be shown a message informing you that the USB device will be unplugged from the host machine and connected to the virtual machine.



Press "OK".

Your AVDI interface is now connected to the virtual machine and can be used with software installed on this machine.

If you like to disconnect the AVDI interface from the VM (so you can use it on the host PC) you can either close the VM Player or do it through the VMWare menu "Virtual Machine" \rightarrow "Removable devices" \rightarrow "future devices avdi interface Vvxxx" \rightarrow "Disconnect (Connect to host)".

NOTE:

Make sure that the latency timer is set to "1 ms" according to the AVDI Common User Manual.