

ABRITES DIAGNOSTICS FOR BIKES, SNOWMOBILES

and Water Scooters



www.abrites.com

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

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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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List of revisions

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22.07.2021	Appendix	Harley-Davidson key programming procedure	4.3

I. Introduction

The Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters is a professional diagnostic software designed to work with the Abrites Vehicle Diagnostics Interface produced by Abrites Itd. The Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters allows complete dealer level diagnostic operations for multiple brands and categories of motorcycles, snowmobiles, ATVs, UTVs and water scooters via their on board diagnostic (OBD) connectors or through bench connection. The diagnostics is being performed over the appropriate communication protocol for each model. As well as the standard diagnostic functions such as reading and clearing DTCs, module identification etc. the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters provides advanced diagnostic functions.

tions such as reading and updating configuration data of various modules installed on the vehicles, key learning functions for some models and others functions.

Getting started with the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters requires the users to perform the following:

- Double click the "Quick start" icon on the desktop and go to the motorcycle icon.
- Double click it and the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters will be started.



Before using the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters please go to the "Options" menu and make sure that the "Debug logging" is enabled for troubleshooting purposes (described in section V), then select how long you would like for them to be kept on your computer. In the last drop down tab of the "Options" menu you can select the language that is most comfortable for you to use while working with the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters.

Unit	name			Protoco	DTC	
		Options	_		×	Previo
		Debug Logging	Enabled	•		
		Keep Log Files	3 Months	_		Oper
		Language	English			Next
Vehide Se urrent coni Catego i	text		c	K Cancel		Optio
Make Model			•		-	

II. Vehicle diagnostics with the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters

The Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters software consists of basically two parts.

1. Standard diagnostic functions

Reading DTCs/ Clearing DTCs (fault codes)/ Scanning available modules and extended module identification, Data display in the supported vehicles.

When performing standard diagnostics the first step that needs to be performed is to select the type of vehicle that requires the diagnostic service. By default your first screen will be set to the "Vehicle selection" tab:

Unit	name			Protocol	DTC	
						Previo
						Ope
						Nex
Vehicle S Current cor		Special Functions				
Catego		Bike	•			Optio
Make Model			•	•		

From this screen you will need to select the vehicle "Category" (e.g. Bike, Snowmobile, Water Scooter), the "Make" (e.g. Aprilia, BMW, Ducati, Harley-Davidson, Kawasaki, Gilera, Piaggio, Suzuki, etc.) and the "Model".

NOTE: For the purposes of the manual we are using a Suzuki motorcycle, the model is DL650K7-L2. This motorcycle has two electronic modules available. The principle is similar with any vehicle tested by the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters. The two available electronic modules of this motorcycle are **the Engine Control Unit** and **the Anti-lock Braking System.** In the "Protocol" field of the diagnostic screen we can determine that both units use the KWP protocol.

+	Unit name	Protocol	DTC	
12	Engine Control Unit	KWP		
29	Anti-Lock Braking System	KWP		Prev
				OF
				Ne
Cur	Yehide Selection 입을 Special Functions and F			
	lake SUZUKI	• •		Opt
	Iodel DL650AK7-L2	-	7	

Select the vehicle as described above:

- Once the correct vehicle is selected the available electronic modules will be displayed in the "Unit name" field.
- Drill into the units in order perform diagnostics for them by double clicking directly over the name of the unit:

Establishing diagnosti Diagnostic channel is electronic cont Part Number Component ID	open - K-li	ne, using KWP 2026	
Part Number	trol unit id	32920-27GA*	_
			_
Identification Da	ata Display		Clear log
Read DTCs Act	tuator tests		Write log
Clear DTCs Cust	tom Request		×

The display field will inform you about the establishment of a diagnostic session with the selected unit. It will also provide information about the protocol and on multiple occasions it will automatically display the unit identification in terms of Part number and Component ID.

Selecting the "Identification" button will allow you to see the unit's Part number and Component ID (This is mostly used for searching for replacement parts):

stablishing di	agnostic session	with selected unit	
iagnostic chan	nnel is open - K-l	ine, using KWP 2026	
electron	nic control unit i	dentification	
art Number		32920-27GA*	
omponent ID		32920-27GA	
electron	a control unit i	dentification	
		Generitieacion	
art Number omponent ID		32920-27GA* 32920-27GA	
]		
art Number omponent ID Identification	Data Display		Clear lo
omponent ID	Data Display Actuator tests		
Identification			Clear lo Write lo

Selecting the "Read DTC" button will read the Diagnostic Trouble Codes from the unit (if present), it will display it with the factory number of DTC as well as the appropriate text identification (if available):

electron	c control unit identification -	
art Number	32920-27GA*	
Component ID	32920-27GA	
electron	c control unit identification -	
art Number	32920-27GA*	
Component ID	32920-27GA	
read dia	mostic trouble codes	
	nostic trouble codes switch signal circuit malfuncti	on [Not Present]
		on [Not Fregent] Clearlog
1650: Ignition	switch signal circuit malfuncti	

Once the vehicle is repaired and the issue is removed the "Clear DTC" button is selected. This will remove the Diagnostic Trouble Code from the unit's memory thus allowing the vehicle to operate correctly:

ngine Control Unit			X
Component ID		32920-27ga	•
electror	nic control unit i	dentification	
Part Number		32920-27GA*	
Component ID		32920-27GA	
read dia	agnostic trouble c	odes	
P1650: Ignitior	n switch signal ci	rcuit malfunction [Not Present]	E
clear di	iagnostic trouble	codes	
DTCs cleared			
Identification	Data Display		Clear log
Read DTCs	Actuator tests		Write log
Clear DTCs	Custom Request		×
			Close

The "Data Display" button provides a complete "actual value data" view of the vehicle in one, multiple or all parameters by gathering information from the vehicle's sensors. This function is extremely helpful when determining a hidden fault within a vehicle or analyzing the "behavior" after specific modifications or repairs have been made:

+ Parameter	Value	-
Engine speed	0 rpm	
Throttle position	27.5 °	
Manifold absolute pressure 1	94.1 kPa	
Engine coolant / oil temperature	12.0 °C	
Intake air temperature	14.0 °C	
Barometric pressure	126.3 kPa	
Battery voltage	0.0 V	
✓ O2 sensor	0.0 V	
Gear position	Neutral	
Manifold absolute pressure 2	94.1 kPa	
Desired idle rpm	1343 rpm	_
 ISC valve position 	98 step	
Fuel injection time for #1	0.0 ms	
Fuel injection time for #2	0.0 ms	
Fuel injection time for #3	262.1 ms	
Fuel injection time for #4	262.1 ms	
Ignition timing for #1	5.1 °	
Ignition timing for #2	5.1 °	
 Secondary throttle actuator position sensor 	11.4 %	
 ISC aperture learned position 	100.0 %	
Decomp solenoid relay	Off	

The "Data Display" menu provides two different views. The "List" view, as shown above allows selection of sensors with a check box list. The list can be customized and its order can be modified by the user for a more accurate overview of the vehicle values. The "Graph" view allows the monitoring of a parameter in a graphic form in order to determine patterns and behavioral changes. It provides the available sensor signals in a drop down menu where a value can be selected:



"Custom Request" allows the user to send custom signals to the electronic units and monitor the response in a table view. The custom request can be saved for reference:

ustom Request	×
Request	Send
Save Clear	Close

2. Advanced Diagnostics

The "Special functions" tab of the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters will provide you the options to perform "Advanced diagnostics" with the available vehicles:

81	Unit name	Protocol	DTC	
				_
				Previou
				Previou
				6
				Open
				Next
	a			
	Vehicle Selection 👔 Special Functions			1
1			6	
	SI Carrow		•	
2	y Learning Read/Update ConfData		Open	Options
				Exit

The "Key learning" special function allows the user to prepare keys for the available vehicles in a simple "step – by – step" manner. Key learning is currently available for various Aprilia, BMW, BRP, Gilera, Harley-Davidson, Vespa and Piaggio models:

ey Learning		×	
Please, select mal	ke and click on the button Next		
Diagnostic	APRILIA		
Dump	ВМЖ		
	BRP		
	GILERA		
	HARLEY DAVIDSON PIAGGIO		
	VESPA		
	🖏 Back Next 🌩	Cancel	

Note: Make sure to follow the instructions you see on the screen. Make sure to have your transponder programmer attached

Programming a key with a Temic transponder requires the TAG key programmer to be connected to your AVDI. Once you have done that the Software will establish a connection to the unit and you will see the following screen:

Unit na	me	Protocol DTC
	Key Learning	23 Previo
	Please Wait Establishing diagnostic session wit	th selected unit
		Cancel
ehicle Selec	Confbata	Back Next Cancel Optio
and the second	ConfData	

Once the connection to the unit is established you will be asked to select the key position and you should see the following screen:



Once that is done the software will ask you what programming operation you would like to perform. You can clone or replace the existing transponder by selecting the appropriate button:



In this case we see that a master key is used and you should leave the position to its default.

After clicking "Next" the software will inform you how to place the transponder within the key programmer antenna (aerial):



When you click next here you will need to wait a few seconds and the transponder will be ready for use.



Programming keys for BMW motorcycles.

In this case we are using a Hitag 2 transponder and a TAG transponder programmer. The first step is to connect the programmer and establish a diagnostic connection with the unit:

Jnit name	<u>.</u>	Protocol	DTC	
K	ey Learning		22	Prev
	Please Wait Establishing diagnostic session with	selected unit	X	OF
	_	Cance		Ne

Note: Use the BMW online software for the latest BMW motorcycles with DST transponders.

The next step is to select the position where you would like to program the key:

ey Learning Please, select the position on which yo	ou want to program a key
⊂ Key0-Used	⊂ Key 5 - Not Used
C Key 1 - Used	⊂ Key 6 - Not Used
C Key 2 - Not Used	⊂ Key 7 - Not Used
○ Key 3 - Not Used	⊂ Key 8 - Not Used
○ Key 4 - Not Used	C Key 9 - Not Used
	Back Next 🖏 🗙 Cancel

You should then follow the instructions on the programmer placement in the antenna:

Key Learning		×
	Place Transponder Key on your programmer and click on the button Next. NOTE: Ensure that no other Transponder Key is within 10 cm.	
	Back Next	Cancel

You will then be informed that the transponder is ready to start the engine:

Key Learning		×
	Programming completed successfully!	
	Transponder Key is ready to start the engine.	
	Sack Next 🖘	G Finish

"Read/ Update ConfData" allows the reading and updating of Configuration data from selected electronic control modules of various bikes, snowmobiles and water scooters. The "Read Confdata" button will read the Configuration data from the selected module, the "Update Confdata" will respectfully update the configuration data of the selected module. The selection is performed using a drop down menu within the "Read/ Update ConfData" special function menu. The "Load from file" button allows you to update the configuration data by loading it from a preselected file, saved prior the update. "Make Virgin" allows you to virginize the CONF DATA of the ECUs available for this action.

Init		· 🌦
	EFI TECHNOLOGY ACII/AC2I/AC5I/AC8I/AC13I/AC21I/AC23I (ST72C334)	Read ConfData
	EFI TECHNOLOGY ACII/AC2I/AC5I/AC8I/AC13I/AC21I/AC23I (95040)	3.
	EFI TECHNOLOGY AC19I/AC20I/AC25I/AC27I/AC32I (95080)	Update ConfData
	MAGNETI MARELLI ACI100/ACI50x/ACI60x (MC68HC05)	opublic combate
	MAGNETI MARELLI IAW 15 (MC68HC11)	
	MAGNETI MARELLI IAW 5AM (ST10F269, 95160)	Load from File
	MAGNETI MARELLI IMM003/IMM006 (MC68HC05E6)	
	PHILIPS DITECH (908AZ60A)	Save to File
		Make Virgin
		- X

nit	MAGNETI MARELLI IAW 5AM (ST10F269, 95160)	•	Canal And
		*	Read ConfData
			Update ConfDa
	Please Wait	1	
	Making virgin ECU		Load from File.
			Save to File
	Cancel		Make Virgin
		17	
	The "Make Virgin" button allows you to virginize various ECUs with the click of a button.		

III. Connecting your AVDI to various Bikes. Snowmobiles and Water Scooters

1. Unlike cars, where the standard for the diagnostic connection is unified under the OBDII connectors the motorcycles, snowmobiles and water scooters use a variety of connectors. The connection to the on board diagnostic connectors of these vehicles can be established in the following steps:

Determining the location of the diagnostic connectors.

In the majority of cases the diagnostics connectors are located under the seat of the vehicle.

Determining the type of connectors required for the specific vehicle.

Once the type of connector that is required for the vehicle in question is discovered the users can proceed to

the next step.

"Translating" the signal from the On board diagnostic connector to the AVDI.

2. In the photos below you can see various connector locations, types and connection cable pin outs.

Suzuki motorcycles, quads, snowmobiles and water scooters most commonly have their 6 pin connector under the seat



In the photo above you can see it in white, it has a rubber waterproof cap which needs to be removed in order for the connector to be exposed.

2021

The standard Suzuki six pin connector is depicted below:



The pin out for the 6 pin connector is as shown here:



Here you can see the two connected on the vehicle:



The connection from the Suzuki vehicles to your AVDI is established by connecting the 6 pin connector to a DB9 connector and then to a DB25 connector in order for the signal to enter the DB25 connector on the AVDI via the following table:

DB9	DB9
PIN 1 – Ground	PIN 5- Ground
PIN 4 – K—line	PIN 8 – K – line
PIN 9 – 12V	D: 47 40.17 I.

BMW motorcycles use a 10 pin diagnostic connector. The connection to the OBD II is depicted:



Location of the OBD for some of the most popular BMW models:

S1000RR- under the rear seat cover R1200GS Adventure- under the rear portion of the seat R1200GS- under the seat R1200RT- under seat R1200C- under the left chrome cover HP2 Enduro- under the front of the seat, close to the tank K1200GT- under the rear of the seat K1200S- under the rear of the seat K1200LT- under the seat R1150 GS / Adventure- under the seat R1150 GS / Adventure- under the seat C650X Challenge/Country/Moto- behind right front panel C1-200- behind the backrest of the seat Harley-Davidson motorcycles use a 4(old models) or 6 pin diagnostic connector. The connection to the OBD II is depicted:



Note: Older Harley-Davidson bikes that use a 4-PIN connector may need to communicate through the SAE J1850 protocols. This may require an Abrites J1850 adapter.

Aprilia motorcycles 6 pin to OBDII connection depicted below:



Kawasaki vehicles, in most cases, have the diagnostic pin under the seat.

PINOUTS

For the following connections you will need to connect the modules using a DB9 connector. What you will need to remember is that the DB9 connector is structured in the following way:

PIN1 – GND PIN4 – K-line PIN9 - +12V Magneti Marelli ACI600.01







 Magneti Marelli IAW 5AM.GE BC.0098058.A





EFI Technology 26-08 CM078307



EFI Technology 28-08 CM078311



Philips 325-024-0G 2 stroke DI



IV. List of supported models

NOTE: Please be informed that module support may vary according to the model year. A full list of all supported models is available at <u>www.abrites.com</u>

V. Troubleshooting steps

1. Connection issues

One of the most common faults that may occur with the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters is the impossibility of the software and interface to connect to the vehicle, subjected to diagnostics. In the example below the vehicle is defined and a module is being selected for diagnostics:

ABRITES Diagnostic	s for Bikes, Snowmobiles and Water scooters 1.3	www.abritus72.com		2
Unit name		Protocol	DTC	
12 Digital En	gine Electronics (DME)	CAN		
29 Anti-lock	braking system (ABS)	CAN		Previou
9 Electronic	suspension adjustment (ESA)	CAN		Treviou
0 Ignition 1	ock / electronic immobilizer (EWS)	CAN		
0 Instrument	cluster control unit (KOMBI)	CAN		Ģ
2 Basic modu	le (GM) control unit	CAN		Open
				Next
Vehide Selection Current context	11 Special Functions			
Category	Bike			Option
Make	BMW			
Model	R1200GS (2013+)	•		
				Exit

Once the Abrites Diagnostics for Bikes, Snowmobiles and Water Scooters attempts to establish a diagnostic connection, however, the following error message is displayed:

Electronic suspension adj	justment (ESA)	×
Establishing dia Target unit doe: Diagnostic not d	s not respond!	th selected unit
		*
Identification	Data Display	Clear log
Read DTCs	Actuator tests	Write log
Clear DTCs	Custom Request	Close

Other connection issues may occur when the transponder programmer is not connected to your AVDI during key learning. You will see the following error:

#	Unit n	ame			Protocol	DTC	
		Key Learning			= Navé		23 Previous
		Bike		PRILIA	- mail	7	Open
			Canno	ot find transponder prog	rammer.		Next
	Vehicle Selec	ConfData		ava Bao	k Next 🌩	Cancel	Options

Possible causes for this issue may be:

- The AVDI is not connected to the user's computer.
- E The diagnostic connector is inappropriately connected.
- The transponder programmer is not connected.

In both cases please make sure to check the connections or contact support@abrites.com

2. Log files

The log files are an essential part of the troubleshooting process. They are required to establish the root causes of issues, that have occurred unexpectedly. In most cases this is concerning the communication between the AVDI and the modules of the vehicle or the communication between the modules within the vehicle itself. Always make sure to attach the files from when the issue occurred to an e-mail sent to the support team. This will speed up the process of resolving an issue in case it is present. Please note that the log files can be located under: Start -> Programs -> ABRITES software for IDxxxxx-> Log Files (where IDxxxxxx is your ADVI ID) or in the second page of the "Quick Start" menu under the "LOG" icon. In this directory you will see a list of folders. Please access the "BIKE" folder and copy the ".log" files from the time and date the issue occurred and attach them in your e-mail.

The log files icon in the "Quick Start" menu:



VI. Additional cables

From the Abrites online store the users can purchase the following additional cables:

1. CB008 – Cable for AVDI cable for BMW bike diagnostic connector



2. CB301 - AVDI cable for connection with Aprilia Bikes







4. CB303 - AVDI cable for connection with Benelli Bikes





5. CB304 - AVDI cable for connection with Suzuki Bikes (6 pins)

6. CB305 – AVDI Cable for connection with Harley Davidson bikes (CAN/K-Line)



7. CB306 – AVDI Cable for connection with Piaggio bikes



VII. Appendix

BMW R1200GS and other CAS4 late model BMW CAS PINs

Before you start the CAS module looks like this and it is covered in gel. Be very careful and remove some of this gel to reveal the EEPROM. Read this with a programmer of your preference and seal again with an appropriate insulating agent to achieve a neat and safe result:



Harley-Davidson key programming procedure

In order to program a spare key to a Harley-Davidson bikes you need to connect your Abrites CB305 cable to your AVDI(and a J1850 Abrites adapter for the old models with 4-pin connector).

Once the CB305 cable is connected to the OBD connector of the motorcycle open the Abrites Diagnostics for Bikes, Snowmobiles and Water scooters and open the Key learning menu and select "Harley-Davidson":

Unit	name		Protocol	DTC	
	Key Learning				× Prev
	Please, select mak	e and click on the button N	ext		_
	Diagnostic	APRILIA			
	Dump	BMW			
	Dump	BRP			
		GILERA			
		HARLEY DAVIDSON			
		PIAGGIO			Ne
		VESPA			
Vehicle Sel	ecti				
		Na Back	Next 🌩	× Cance	
y Learning	ConfData			Ope	
	Combata				



Select the free key position followed by "Next":

Unit n	ame	Prot	ocol DTC	
1				
	Key Learning			× Previo
	Please, select the position on	which you want to progra	am a key	
		323E 24B1 D748 C412 14E 0000 0000 0000 0000 0000		Ope
	13		-	
				Ne
Vehide Sele	cb			
		si⊒ Back Next	Cancel	T) 🕼
ey Learning	ConfData		open	Optio

Enter the key FOB Serial Number (it comes with the Harley-Davidson key):

BRITES Diagnostics for				1	vw.abrites.cor		
Unit name				Protocol	DTC		
Key Lean	rning					×	Previo
		Enter Key EOB	Serial Number				6
		Enter Key FOB	Serial Nulliber				
		4725 6027 00	1D 4761 C841 8E	07		-	Ope
		4735 6237 BC	1D 4761 C841 85	527			
							Ne
Weblah Balant							
Vehicle Selecti							
			💠 Back	Next 🔶	X Car	cel	
y Learning Resurveyor						pen	Opti
ConfData							
							6
BRITES Diagnostics for	Bikes, Snow	mobiles and Water sc	ooters 2.0	Days untill HW synch	ronization: 27	_	
BRITES Diagnostics for	Bikes, Snow	mobiles and Water sc	ooters 2.0	Days untill HW synch	ronization: 27		
1		mobiles and Water sc	ooters 2.0				
Unit name		mobiles and Water sc	ooters 2.0			×	
Unit name		mobiles and Water sc	ooters 2.0			×	
Unit name	ning			Protocol		×	
Unit name	ning		ooters 2.0	Protocol		×	
Unit name	ning			Protocol		×	Prev
Unit name	ning			Protocol		x	Prev
Unit name	ning			Protocol		×	Prev
Unit name	ning			Protocol		×	Pret
Unit name	ning			Protocol		×	Prev Op
Unit name	ning			Protocol		×	Prev Op
Unit name	ning			Protocol		×	Prev Op
Unit name	ning			Protocol		×	Prev Op
Unit name	ning			Protocol		×	Prev Op
Unit name Key Lean	ning		pleted successfu	Protocol	DTC		Prev Op
Vehice Select	ning			Protocol	DTC	sh]	Prev Op
Unit name Key Lean	ning		pleted successfu	Protocol	DTC		Prev Op
Unit name Key Lean Vehice Select Vehice Select	ning		pleted successfu	Protocol	DTC	sh]	
Unit name Key Lean Vehice Select Vehice Select	ning		pleted successfu	Protocol	DTC	sh]	Prev Op

Note: In case of all keys lost you need to know the 5-digit PIN code in order to disable the alarm and program a key. The default PIN code you can try with is 1-2-3-4-5.