

Achieve the impossible

ABRITES Diagnostics for Mitsubishi Online <u>User Manual</u>

Version: 31.6

www.ABRITES.com

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I. Abrites diagnostics for Mitsubishi Online:

The Abrites diagnostics for Mitsubishi online is a Windows based online software developed by Abrites. It requires a minimum of 1024MB RAM, 64GB of free hard drive space and at least Windows 7 64bit Service Pack 1 or later version to operate. It can be used for diagnostics of Mitsubishi vehicles using OBD II. The supported vehicles are the ones produced after around the year 1999 up to present day. With its help you can perform basic diagnostics, monitor live data, read diagnostic trouble codes (DTCs), Clear DTCs, etc. With its help you will also be able to perform other tasksn the future you will be able to perform module adaptation and cluster calibration and key programming .

II. Using the Abrites Diagnsotics for Mitsubishi

The Abrites diagnostics for Mitsubishi is a Windows based online application and as such it requires the computer you have installed it on to be connected to the internet. We can suggest a connection to the internet via 3G/ 4G from a mobile device as well as a WI-FI network. Please ensure to have port 8443 allowed by your internet service provider in order to ensure the correct functionality of your Abrites diagnostics for Mitsubishi Online.

Using the icon in the top right of your software screen you will be able to see the internet connectivity and signal strength and the settings icon (sprocket) will allow you to choose a language in which the software to operate:



When you open the Abrites Quick Start you can select the Abrites diangostics for Mitsubishi Icon:



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When you start the Abrites diagnostics for Mitsubishi Online the software will automatically start detecting the vehicle in order to begin work with it. Before this you need to have the OBD II cable of your AVDI connected to the vehicle, the AVDI connected to your USB port and your laptop needs to be connected to the internet as per the requirements described above.

If the software is unable to connect to the vehicle or if any of the above is no
completed you will see the following screen:

A A	BRITES D	iagnostics	: 31.6 ·	ww.abrites.com	-	
<	Home	Mitsubishi	Autodeter Vehicle			
						\bigcirc
			14	ailed to detect vehicle		
			1	o Communication with ECU		
			14	ress Continue		
				Continue		
				Continde		

This is nothing to worry about because there is a possibility that there is a miscommunication. at this point you need to check the connections described above and if everything is correct you can move forward by pressing "Continue" to the manual selection of the vehicle:

ABRITES Diagnostics 31.6 www.abrites.com		×
Home Mitsubishi Select destination		٢
Select destination		
JAPAN		
Mitsubishi Motors North America		
EUROPE		
EXP		
Mitsubishi Motors Australia Limited		

Select the region for which the vehicle is designated

A /	ABRITES D	Diagnostics	31.6 wv	ww.abrites.com —	\times
۲	Home	Mitsubishi	Select model		 ٢
				Select model	
		-2		(Other : 19xx - 2004MY)	^
		22		LANCER (CS#,CT#)	
		24		LANCER WAGON	
		32		OUTLANDER (CU#)	
		20		OUTLANDER (CW#)	
		19		LANCER SPORTBACK	
		37		GALANT	
		33		L200 (K6#,K7#)	
		34		PAJERO SPORT / MONTERO SPORT (K9#)	
		1000		L200 (KA#,KB#)	
		51		GRANDIS	
		7		L300	
		6		PAJERO / MONTERO (V6#,V7#)	

You can now select the model of the vehicle you are working on:

After you select the model you will be taken to the main screen. Remember that in normal circumstances you will not need to select the model. The main screen of the diagnostic software looks like this:

	ADRITES E	Siagnostics 31.6 - wi	ww.ubrites	.com					×
	Home	Mitsubishi Chassis	MPI	This is the	le guide ba	r, you can	use it to g	go	0
				working	with	ine venicie	you are		
\geq	_	2		Electro	nic Control Unit	identification			
	Fault Codes	Clicking th	e faul	t codes bu	utton you v	vill be able	to see th	e DTC	S
	Live Data	Live data	shows	the live v	alues from	the select	ted modul	e	
C	Actuators	Actuators	allows	s you to ac	ctivate and	l deactivat	e various		
CL	stom Session	actuators	to diag	gnose vari	ous issues	. You can	even mon	itor liv	e
-		values and	activ	ate actua	tors.				
			Cus	tom sessi	on allows	custom rea	quests to	be sen	It
			to t	he unit (fo	or very adv	anced user	rs).		
A	B R I T E S								
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This is the screen you will see after the automatic identification or if you identify the module manually:

A	BRITES D	Diagnostic	s 31.6 w	ww.abrites.com				\times
۲	Home	Mitsubishi	Autodetect Vehicle					٢
							(
			De	estionation		EUR		
			M	odel		LANCER (CY#)		
			M	odel year		2008		
			СІ	ass		SJXJL6		
			Ту	pe		СҮВА		
			Er	gine		BWC (2.0, D4, DIES, I/C, T/C)		
			Tr	ansmission		F6MBA (6M/T-FWD)		
			v	'n		JMBSJCY8A8U500898		
			Ve	ehicle detected		Press Continue		
					Cor	tinue		

It gives you all the basic vehicle information. By pressing "Continue" you will move on to diagnosing the vehicle. Using the "SCAN" button you can scan for the available electronic modules inside the car. "Clear all DTCs" does just as it says and clears the DTCs.

ABRITES	Diagnostics 31.6 www.ab	rites.com	- 🗆 X
< Home	e Mitsubishi Units List		()
Enter Filter	_	General Diagnostics	
Scan	[01]	MPI/GDI/DIESEL: w/ DPF	20 faults
Clear All DTCs	[03]	ABS/ASC/ASTC/WSS: A.S.C.	10 faults
	[04]	SRS-AIR BAG	1 fault
	[05]	Air Conditioner	4 faults
	[07]	ETACS: Can't see P/N on ECU body	10 faults
	[08]	Meter	4 faults
	[0E]	KOS/IMMO/Keyless/TPMS: IMMOBI & KOS	12 faults
	[0F]	KOS/IMMO/Keyless/TPMS: IMMOBI & Keyless	12 faults
	[11]	AFS/ACL/Leveling	2 faults
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Here you can see the ECU and in the navigation bar you can see what you can do with the selected electronic unit.

ABRITES Di	agnostics 31.6 www.abrites.com		
< Home	Mitsubishi Chassis MPI		
	Electronic Control Unit identification	ı	
Fault Codes	ECU Origin	02	
Live Data	Supplier ID	03	
Actuators	ECU ID	03	
Custom Session	ECU Diag Ver.	00	
	Hardware Version	FFFF	
	Software Version	050401	
	Hardware Part Number	1860A585	
	Chassis Number/VIN(Original)	JMBSJCY8A8U500898	
	Chassis Number/VIN(Current)	JMBSJCY8A8U500898	
A·B·R·I·T·E·S			

In this screen you can see all the diagnostic trouble codes, you can save them to a file to read later and clear them. all the details of each DTC can be viewed by expanding with a simple click.

ABRITES	Diagnostics 31.6 www.abrites.com	
< Home	e Mitsubishi Chassis MPI Read DTCs	
	List Of Fault Coo	des
	Fault	Code
Save To File	Fuel pump control circuit	Error type debounced: sig fault
Clear Faults	Intake manifold runner CNT.open	Error type debounced: sig fault
Read Faults	EGR cooling valve circuit	Error type debounced: sig fault
	Exhaust gas temp.sensor high	Error type debounced: max fault
	DPF temperature sensor high	Error type debounced: max fault
	Catalyst temperature sensor HI	Error type debounced: max fault
	Vehicle speed signal	Engine Speed: 0.0 r/min
	Boost pressure sensor high	Error type debounced: max fault
	Intake air temperature SNS. high	Error type debounced: max fault
	Engine coolant TEMP.sensor high	Error type debounced: max fault
	Fuel temperature sensor high	Error type debounced: max fault
	Exhaust gas temp.sensor high	546
	APS(sub) low	Error type debounced: mir fault
	APS(main) low	Error type debounced: mir fault
BRITE	S Brake switch correlation	Error type debounced: npl fault
	DPF differential PRS sensor high	Error type debounced:

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Opening the "Actual values" screen will show you all the sensors installed in the car, with a click you can select which ones you wish to monitor, once that is selected you can press "Query".

NB! you can select as many as you wish.

A A	BRITES D	agnostics	31.6 wv	vw.abrite	s.com		×
<	Home	Mitsubishi	Chassis	MPI	Actual Values		 0
nter i	Filter					Values	
	Query	All data				Engine speed average Injection quantity	
Sel	elect All					Air mass per cylinder (target)	
						Boost Pressure Target boost pressure	
						Engine coolant temperature SNSR EGR control solenoid	
						Atmospheric pressure ADC(raw)	
						Air mass per cylinder (actual) Vehicle speed sensor	
						A/C main switch Stop lamp switch	
						Ignition switch (IG1)	
						Ignition switch (ST) Battery voltage	
B						Accelerator pedal position SNSR2	

When you select the "Query" button this is what you see:

ABRITES Diagnostics 31.6 www.abrites.com									×
<	Home	Mitsubishi	Chassis	MPI	Actual Values	Query			 ٢
						١	/alues		
Batter	y voltage						12199.4 [mV]		
Accele	erator pedal	position SNSR	2				0.0 [mV]		
Intake	air tempera	ture sensor					5000.1 [mV]		

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Here are just some of the actuators you can activate and deactivate from the actuator menu. This feature is extremely useful for diagnosing any issues with a vehicle. This is made simple and easy using the Abrites Diagnostics for Mitsubishi Online:

A A	BRITES D	agnostics	31.6 w	ww.abrite						
<	Home	Mitsubishi	Chassis	MPI	Actuator tests					 ٩
Name:				lue:				Action:	Status:	
EGR control solenoid			5	5				Start		^
VGT solenoid valve			5	5				Start		
Intake air control flap			5	5			State Contraction	Start		
Glow control relay			1	14				Start		
Fuel pump relay			(OFF				Start		
MIL diagnostic lamp			(OFF				Start		
Glow indicator			C	OFF				Start		
EGR cooler			C	OFF				Start		
Charge lamp			(OFF				Start		
A/C compressor relay			(OFF				Start		
Cruise control indicator			(OFF				Start		
		0						e		~