OBD-II Diagnostic

In this guide you will learn how to use our new feature – OBD-II Diagnostic. And, specifically, how to set it up and use it in repair.

Keep in mind that the whole range of functionality of this feature is available only in our application for tablets. You can find this application in Google Play and App Store.

To begin, let's go to the settings. Select Configuration, then select Technical and OBD-II.





<		Configu	ration		* 100%	
	Profile Settings		OBD II Diagnostic			
	🚔 Financial					
	Q ⁸ Technical		Search OBD devices			
	Inspection templ.	DIAGNOSTIC TEMPLATES				
	🗲 Repair templates	Title	Price, \$	Hours		
	OBD II	Freeze Frame	0	0.15	C Edit	
l	S List of Bays	Snapshot	0	0.15	🗹 Edit	
	G	Live Data	0	0.15	🕑 Edit	
		Smog Check	0	0.15	C'Edit	
		Diagnostic Trouble Codes	0	0.15	C Edit	
		RECOMMENDED ADAPTERS				
		Trine 1	Carista OBDII Bluetooth Adapter	a see	it on Amazon	
8	Help	•	Info			

To work with OBD-II Diagnostic you will need a special adapter to connect to the car and to display the results of the diagnostics to your device. Below is the list of the recommended adapters.

< 👝	Configu	uration	
	RECOMMENDED ADAPTERS	8	
	CLETTA	Carista OBDII Bluetooth Adapter	a, See it on Amazon
	Careford Car	BAFX Products 34t5 OBDII	a, See it on Amazon
	PROFIL Company Contraction Con	PRODIAG Car Bluetooth OBDII Scan Tool ELM327	a, See it on Amazon
		Wsiiroon Bluetooth OBDII Scanner	a, See it on Amazon

If you are using an Android device, then, in order to connect the adapter to the tablet, you will need to turn on the Bluetooth, select the adapter from the list of the detected devices, and, if needed, to enter the password provided with documentation at the time of purchase. Now your tablet and the adapter are paired.

÷	Bluetooth	:
	On 🔹	
	Available devices	
	X Carista	
	FreematicsEMU	
	B8:78:2E:26:51:91	
	₽ C26	
	Lenovo TAB 2 A10-70F is visible to nearby devices while Bluetooth settings is open.	

If you are using an iOS device, simply turn on the Bluetooth.

Now back to the attachment. Click the "Search OBD devices" button. Activate the "Default" switch located in front of the required adapter. Wait for the message indicating the successful connection. Clicking the "pencil" icon will enable you to edit or delete the devices detected via Bluetooth

<		Configuration				0%
	Profile Settings	Info Carista - 7E connected	×			
	🚔 Financial	OBDII C	OK			_
	Q ^e Technical		Default			
	Inspection templ.	FreematicsEMU - FC				
	Repair templates	🖍 Carista - 7F				
	i OBD II	Sea	rch OBD devices			
	S List of Bays	DIAGNOSTIC TEMPLATES				_
	Ο	Title	Price, \$	Hours		
		Freeze Frame	0	0.15	🕑 Edit	
		Snapshot	0	0.15	G Edit	
		Live Data	0	0.15	🕑 Edit	
		Smog Check	0	0.15	🕑 Edit	
		Diagnostic Trouble Codes	0	0.15	🕑 Edit	
8	Help	🔒 Info				

Below you can set up the templates for OBD-II diagnostics in AutoRepair Cloud.

<		Configu	iration			
	OBD II		Search OBD device	s		
	S List of Bays	DIAGNOSTIC TEMPLATES				
	G	Title	Price, \$	Hours		
		Freeze Frame	5.00	0.15	H Save	
		Snapshot	0	0.15	🕑 Edit	
		Live Data	0	0.15	🕑 Edit	
		Smog Check	0	0.15	🕑 Edit	
		Diagnostic Trouble Codes	0	0.15	🕑 Edit	
		RECOMMENDED ADAPTERS	3			
		CLARTIA	Carista OBDII Bluetooth Adapter	a se	e it on Amazon	
0	Help	đ	Info			

You are now ready to perform the diagnostics.

There are 5 (five) OBD II diagnostics in the AutoRepair Cloud, and namely, Freeze Frame, Snapshot, Live data, Smog check and Trouble codes. Let's discuss every one of them.

Select "Diagnostics" under the "Type" submenu in the drop down list on the Repair Page, then click the blue inspection button.

<		Repair #	12598						\$ 100%
	2012 Mitsubishi Outlander	🖍 10,000 m	Add a re	epair tag, spli	t with semi	colon			
	Description	Type	Price, \$	Hours	Qty	Total, \$	C Status		
	Inspection Title / Labor Descrip	otion 💽 Diagnos-	70	1.0			+ Add item		
	*	Labor		0.00		0.00			
	Initial Checked	Diagnostics	~	ype you	r messag	ge here		0	
		Labor Discount							
	Technician	Parts							
	Time Started 20	Parts Discount							
	Requests for repair Ac	cepted 0 Excluded 0 +							
	✓ Accept all for this repair	X Exclude all for this repair							
	Inspect Suppl	emental R							
	Leave Your notes for this repa	air							
8	Help	Send Email	Invoice	Ē	Delete				

You will see a list of the accessible Inspection templates, including the OBD II templates, mentioned earlier. Select the required template and you will be transferred to the diagnostics page.

Туре	Title	Price, \$	Hours
Inspection	Full inspection	6.00	1.00
OBD II	Freeze Frame	0.00	0.15
OBD II	Snapshot	0.00	0.15
OBD II	Live Data	0.00	0.15
OBD II	Smog Check	0.00	0.15
OBD II	Diagnostic Trouble Codes	0.00	0.15
sts for repair	Accepted 0 Excluded 0 +		
ccept all for this rep	air ? X Exclude all for this repair		
(?) × Ins	pect Supplemental R		

First, let's discuss the **Freeze Frame.** Press the "Retake Data" and you will receive all data about the car's condition which have been recorded in the car computer memory at the time when the error occurred.

		Freeze Frame	Ca	irista - 7F 🔴
2	012 Mitsubishi Outlander	Repair # 12598- Freeze frame		🖍 Notes
PID	Description		Value	Units
0143	Absolute load value		13486	%
0146	Ambient air temperature		289.4	°F
0133	Barometric Pressure		19.87	psi
0104	Calculated engine load		25.1	%
0242	Control module voltage		12	V
0131	Distance traveled since DTC c	leared	8811.67	mile
0121	Distance traveled with MIL		186.41	mile
010C	Engine RPM		2562	rpm
0105	Engine coolant temperature		194	°F
0123	Fuel Rail Gauge Pressure		44655.67	psi
012F	Fuel Tank Level Input		66.27	%
010A	Fuel pressure		87.46	psi
0144	Fuel-Air commanded equivale	nce ratio	0	ratio
010F	Intake air temperature		172.4	°F
010B	Intake manifold absolute press	sure	19.87	psi
0110	MAF air flow rate		302.63	grams/sec
0101	Number of DTC		_ 4	#
	Print Dov	vnload 📃 History 🔀 Reta	ike Data 🔟 D	elete

For example, an error in the performance of the car's system occurred and the "Check Engine" light was activated on the dashboard. At this moment, the car computer memory records the indications of different sensors such as temperature sensor, pressure sensor, as well as the other system values such as voltage, RPM, etc.

Freeze Frame will display the same data until the malfunction is fixed and the error will be removed with the help of the attachment.

Snapshot

This type of diagnostics is similar to the Freeze Frame except that after pressing the "Retake Data" button, you will receive all the data about the car's condition at the current moment. Every time you press the "Retake Data" button, you will receive system measurements taken at the moment of pressing the button.

<			Snapshot		Carista - 7F 🔴 📃
	1 20	12 Mitsubishi Outlander	Repair # 12598- Snap	shot	Notes
	PID	Description		Value	Units
	0143	Absolute load value			76 %
	0146	Ambient air temperature			77 °F
	0133	Barometric Pressure		14.	65 psi
	0104	Calculated engine load		49	€.8 %
	0142	Control module voltage			65 V
	0131	Distance traveled since DTC clea	ared	33898.	.91 mile
	0121	Distance traveled with MIL		47.	85 mile
	010C	Engine RPM		7	77 rpm
	0105	Engine coolant temperature		170).6 °F
	015E	Engine fuel consumption rate			70 L/h
	015C	Engine oil temperature		2	:03 °F
	0123	Fuel Rail Gauge Pressure		61121.	.81 psi
	012F	Fuel Tank Level Input		74	4.9 %
	010A	Fuel pressure		21.	76 psi
	0144	Fuel-Air commanded equivalence	e ratio		0 ratio
	010F	Intake air temperature		170).6 °F
	010B	Intake manifold absolute pressu	ro	14	15 nsi
		Print Down	load 🧮 History	C Retake Data	Delete

Live Data

Select up to five system measurements you are interested in, press the "Measure" button and watch how they change in the graph in real time. You can start the recording of this graph by pressing the "Record" button, and save it by stopping the recording and by pressing the "Save" button.



History



Click on a dot within the graph to see the measurements recorded at the required moment of time.

During the recording you can take a Snapshot in order to receive all measurements of the current moment. To do this, press the corresponding button. To watch, save the recording, click on the green space in the graph and a Snapshot page with all the measurements will open up.

Smog Check

This diagnostics allows you to see if the car is ready for the Emissions Test. Click the "Retake data" button to retrieve the data. The Summary will be on the left, and namely, how many monitors are available in the system for performing the testing and if they have passed the test.

At the right side of the chart you can see the entire list of components, their availability in the system as well as their readiness.

<		S	mog Check	Car	ista - 7F 🔵	
	2012 Mitsubishi O	utlander Repair #	12598- Smog check		💉 Notes	
	Summary		Monitor	Available	Passed	
	Check engine light is	0	Components	True		
	ON (MIL).		Fuel System	True		
	Engine type:	Spark ignition monitors supported (e.g. Otto or	Misfire	True		
		Wankel engines)	EGR System	True		
	Available	10	Oxygen Sensor Heater	True		
	Passed	10	Oxygen Sensor	True		
	Not Passed	0	A/C Refrigerant	True		
			Secondary Air System	True		
			Heated Catalyst	True		
			Catalyst	True		
	Print	Download	History C Retake Da	ta 🗍 De	lete	

Trouble Codes is the last OBD-II diagnostics. Press "Retake Data" to see the vehicle's malfunction codes, their descriptions, symptoms, reasons and ways to fix them. You can also delete them from the computer memory by clicking Clean & Retake, however, if the vehicle's system detects the malfunction, the error code will be displayed again.

<			Tro	ouble Codes		Carista - 7F 🌑 📕
	1 2012 Mitsuk	oishi Outlander	Repair # tr	12598- Diagnostio	c	🖍 Notes
	Confirmed Troub	le Codes			💼 Cle	an codes & Retake
	P0108 MAP Pressu	re Circuit High Inpu	t			
	Description Sym	ptoms Causes	Possible fixes	* Specific Description	* Specific Symptoms	★ Specific Causes
	specific repair steps in pressure. It's usually a and a signal wire that reading. The voltage s from the MAP sensor circumstances, a	a vary depending on r av vary depending on r t three wire sensor: a gr informs the PCM of the hould range between al is greater than 5 Volts, o	make/model.The M ound wire, a 5 volt MAP sensor voltag bout 1 volt (at idle) or if the voltage rea	AP (Manifold Absolute Pres reference wire from the PC ge reading as it changes.Th to about 5 volts (WOT wide ding is higher than what the	sure) sensor measures engi M (Powertrain Control Modu e higher the engine vacuum, e open throttle).If the PCM se e PCM considers normal unc	es Antogn generic, the ne manifold negative air le) to the MAP sensor , the lower the voltage set the voltage reading fer certain
	The Manifold Absolute ECM). The data is use metering for optimum	Pressure (MAP) sense ed to calculate air densi combustion. A fuel-inje	or provides instanta ty and determine th cted engine may al	aneous manifold pressure in ne engine's air mass flow ra ternately use a Mass Air Fle	nformation to the engine's E tte, which in turn determines ow (MAF) sensor to detect	ngine Control Module (the required fuel the intake airflow.
		🔠 Hi	story	Clean & Retake	Delete	

You can add notes (1) to each diagnostics, print and download the results of the diagnostics in pdf format (2), (except Live Data and Trouble Codes).

You can also look through the history of all diagnostics of the customer's selected vehicle. You can do this from any of the diagnostics by pressing the "History" button (3).

		Snapshot	C	arista - 7F 🔵
20	12 Mitsubishi Outlander	Repair # 12598- Snapsho	ot 🧃	💉 Notes
PID	Description		Value	Units
0143	Absolute load value		76	%
0146	Ambient air temperature		77	°F
0133	Barometric Pressure		14.65	psi
0104	Calculated engine load		49.8	%
0142	Control module voltage		65	V
0131	Distance traveled since DTC cle	ared	33898.91	mile
0121	Distance traveled with MIL		47.85	mile
010C	Engine RPM		777	rpm
0105	Engine coolant temperature		170.6	°F
015E	Engine fuel consumption rate		70	L/h
015C	Engine oil temperature		203	°F
0123	Fuel Rail Gauge Pressure		61121.81	psi
012F	Fuel Tank Level Input		74.9	%
010A	Fuel pressure		21.76	psi
0144	Fuel-Air commanded equivalence	ce ratio	0	ratio
010F	Intake air temperature		170.6	°F
010B	Intake manifold absolute pressu			nei

Or, press the corresponding button in the upper left corner from the Repair Page.

		Repair #	12598					
1	2012 Mitsubishi Outlander 🚓	🖍 10,000 mi	Add a r	epair tag, sp	lit with semi	colon		
C	Description	Туре	Price, \$	Hours	Qty	Total, \$	C Status	
	Freeze frame	Diagnostic	0.00	0.15		0.00	C Suggested	×
	Snapshot	Diagnostic	0.00	0.15		0.00	C Suggested	×
	Live data	Diagnostic	0.00	0.15		0.00	C Suggested	×
	Smog check	Diagnostic	0.00	0.15		0.00	C Suggested	×
	Diagnostic trouble codes	Diagnostic	0.00	0.15		0.00	C Suggested	×
Des	scription 📕	Labor 👻	50	1.0			+ Add item	
*		Total		0.00		0.00		
	Initial Checked Progress	Finished		Туре уог	ur messa	ge here	۵	1
Techn Time	Started 2017-11-29 01:5	•						
Reque	ests for repair Accepted 0 Exc	luded 0 +						
Hel	Accept all for this repair (?) × Exclude al p Send Em	ll for this repair ail	nvoice	Ê	Delete			

			Histo	ry of Dia	agnostics			
2012 Mitsubishi Outlander								
	H Š I	Description	Time	Mileage	Repair Statu	s Result		
	0	Diagnostic trouble codes	11/29/17 2:38 AM	10000	12598	Current: P0108	Î	
	7	Smog check	11/29/17 2:35 AM	10000	12598	Passed: 10, No problems		
	\mathcal{A}	Live data	11/29/17 2:28 AM	10000	12598	Parameters: 5, Snapshots: 1, No problems		
I	0	Snapshot	11/29/17 2:17 AM	10000	12598	Passed: 25, No problems	â	
	举	Freeze frame	11/29/17 2:14 AM	10000	12598	Passed: 22, Not Passed: Absolute load value		
				T Fill	ter			

You can also see the results of all diagnostics using our web application at autorepaircloud.com.

We hope that this innovation will help you to improve your business even better.