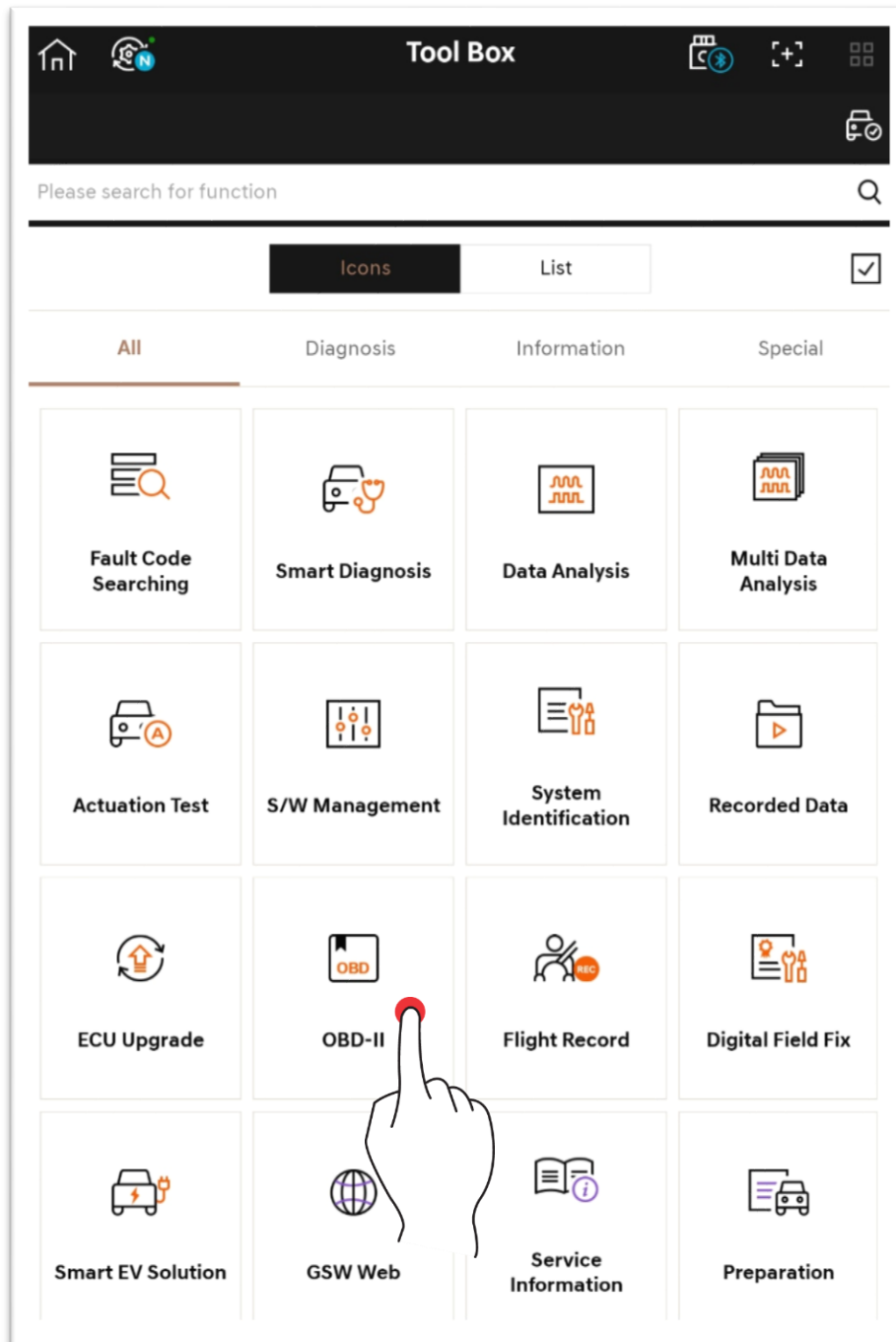


Tool Box - OBD-II

OBD-II mode is used to display generic vehicle powertrain diagnostic data.



Monitoring Status

It indicates overall monitoring status on each module of the vehicle depending on OBD-II method. It indicates the status based on each item such as number of fault codes and warning light status, etc.

Spread/fold

Readiness Test	Item(13)	Value
Monitor Status (I/M Readiness)	Number of DTC	0
Monitor Status (I/M Readiness)	Malfunction Indicator Lamp(MIL)	LUT_ERR
Current Data	Misfire Monitoring	LUT_ERR
Freeze Frame	Comprehensive Component Monitoring	LUT_ERR
DTC	Heated Catalyst Monitoring	LUT_ERR
Monitoring Test Results	Gasoline Particulate Filter Monitoring	--
Oxygen Sensor Monitor A	Oxygen Sensor Monitoring	--
Oxygen Sensor Monitor B	Oxygen Sensor Heater Monitoring	--
Catalyst Monitor-Bank1	EGR and/or VVT System Monitoring	--
VVT Monitor Bank1	Secondary Air System Monitoring	--
Purge Flow Monitor	Gasoline Particulate Filter Monitoring	--
Oxygen Sensor Heater Monitor B	Oxygen Sensor Monitoring	--
Oxygen Sensor Heater Monitor B	Oxygen Sensor Heater Monitoring	--
Misfire Monitor General Data	EGR and/or VVT System Monitoring	--
Misfire Cylinder1 Data		
Misfire Cylinder2 Data		
Misfire Cylinder3 Data		
Misfire Cylinder4 Data		

Arrangement

Item(13)	Module ID	Value	Unit
Number of DTC	E8	0	-
Malfunction Indicator Lamp	E8	LUT_ERR	-
Misfire Monitoring	E8	LUT_ERR	-
Fuel System Monitor	E8	LUT_ERR	-
Comprehensive Component Monitoring	E8	LUT_ERR	-
Catalyst Monitoring(NMHC)	E8	--	-
Heated Catalyst Monitoring	E8	--	-
EVAP System Monitoring	E8	--	-
Secondary Air System Monitoring	E8	--	-
Gasoline Particulate Filter Monitoring	E8	--	-
Oxygen Sensor Monitoring	E8	--	-
Oxygen Sensor Heater Monitoring	E8	--	-
EGR and/or VVT System Monitoring	E8	--	-

View type setting

- View the entire items
- View only fixed items

Current Data

It indicates the current sensor data and actuator based on OBD-II method.

Spread/fold

Item(42)	Value
Readiness Test	
Monitor Status (I/M Readiness) S	Fuel system "A" status LUT_ERR
Monitor Status (I/M Readiness) T	Fuel system "B" status LUT_ERR
Current Data	Calculated Load Value 0.0
Freeze Frame	Engine Coolant Temperature -40
DTC	Short Term Fuel Trim-Bank1 0.0
Monitoring Test Res	Short Term Fuel Trim - Bank 3 Not Supported.
Oxygen Sensor	Long Term Fuel Trim-Bank1 0.0
Oxygen Sensor	Long Term Fuel Trim - Bank 3 Not Supported.
Catalyst Monitor	Intake Manifold Absolute Pressure 9
VVT Monitor Bank1	Engine RPM 0
Purge Flow Monitor	Vehicle Speed Sensor 0
Oxygen Sensor Heater Monitor B	Ignition Timing Advance for 1 Cylinder 0
Oxygen Sensor Heater Monitor B	Intake Air Temperature -40
Misfire Monitor General Data	Absolute Throttle Position Sensor Not Used.
Misfire Cylinder1 Data	Oxygen Sensor Location LUT_ERR
Misfire Cylinder2 Data	Oxygen Sensor-Bank1/Sensor2 420
Misfire Cylinder3 Data	Short Term Fuel Trim-Bank1/Sensor2 Not Used.
Misfire Cylinder4 Data	OBD Requirement --
	Time Since Engine Start 0

View type setting

Item(42)	Module ID	Value	Unit
<input type="checkbox"/> Fuel system "A" status	EB	LUT_ERR	-
<input type="checkbox"/> Fuel system "B" status	EB	LUT_ERR	-
<input type="checkbox"/> Calculated Load Value	EB	0.0	%
<input type="checkbox"/> Engine Coolant Temperature	EB	-40	°C
<input type="checkbox"/> Short Term Fuel Trim-Bank1	EB	0.0	%
<input type="checkbox"/> Short Term Fuel Trim - Bank 3	EB	Not Supported.	%
<input type="checkbox"/> Long Term Fuel Trim-Bank1	EB	0.0	%
<input type="checkbox"/> Long Term Fuel Trim - Bank 3	EB	Not Supported.	%
<input type="checkbox"/> Intake Manifold Absolute Pressure	EB	9	kPa
<input type="checkbox"/> Engine RPM	EB	0	RPM
<input type="checkbox"/> Vehicle Speed Sensor	EB	0	km/h
<input type="checkbox"/> Ignition Timing Advance for 1 Cylinder	EB	0	°
<input type="checkbox"/> Intake Air Temperature	EB	-40	°C
<input type="checkbox"/> Absolute Throttle Position Sensor	EB	Not Used.	%
<input type="checkbox"/> Oxygen Sensor Location	EB	LUT_ERR	-
<input type="checkbox"/> Oxygen Sensor-Bank1/Sensor2	EB	420	mV
<input type="checkbox"/> Short Term Fuel Trim-Bank1/Sensor2	EB	Not Used.	%
<input type="checkbox"/> OBD Requirement	EB	--	-
<input type="checkbox"/> Time Since Engine Start	EB	0	Sec

- List
- Graph
- View the entire items
- View only fixed items

Fault Situation Data

It indicates the sensor data value stored in ECU at the time when a fault code is generated.

DTC

It indicates the fault codes stored in ECU.

Spread/fold

Item#(2)	Value
Monitor Status (I/M Readiness) S	Fuel system "A" status LUT_ERR
Monitor Status (I/M Readiness) T	Fuel system "B" status LUT_ERR
Current Data	Calculated Load Value 0.0
Freeze Frame	Engine Coolant Temperature -40
DTC	Short Term Fuel Trim - Bank1 0.0
Monitoring Test Results	Short Term Fuel Trim - Bank 3 Not Supported.
Oxygen Sensor Monitor	Short Term Fuel Trim - Bank1 0.0
Oxygen Sensor Mo	Short Term Fuel Trim - Bank 3 Not Supported.
Catalyst Monitor-B	Intake Manifold Absolute Pressure 9
VVT Monitor Bank1	Throttle Position Sensor 0
Purge Flow Monitor	Ignition Timing Advance for 1 0
Oxygen Sensor Heater Mo	Intake Manifold Temperature -40
Oxygen Sensor Heater Monitor B	Absolute Throttle Position Sensor Not Used.
Misfire Monitor General Data	Oxygen Sensor Location LUT_ERR
Misfire Cylinder1 Data	Oxygen Sensor-Bank1/Sensor2 420
Misfire Cylinder2 Data	Short Term Fuel Trim - Bank1/ Sensor2 Not Used.
Misfire Cylinder3 Data	OB2 Requirement --
Misfire Cylinder4 Data	Time Since Engine Start 0

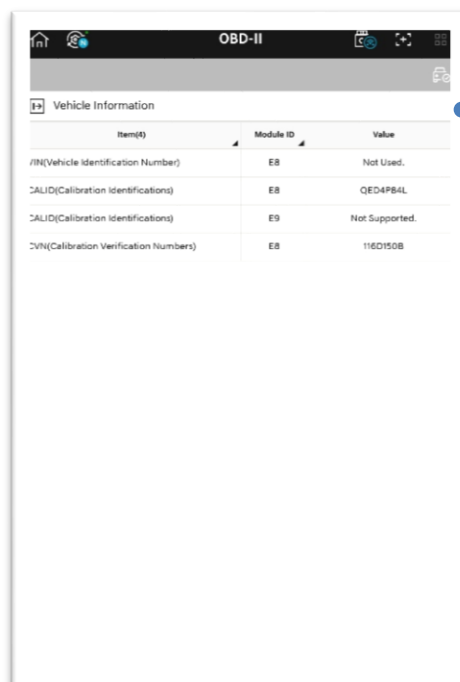
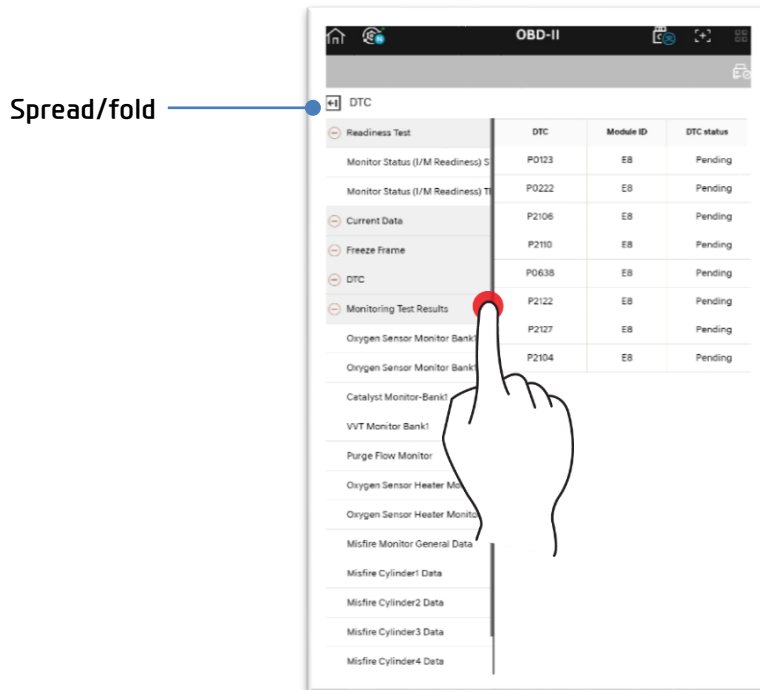
DTC	Description	Module ID	DTC status
P0123	Throttle/Pedal Position Sensor/Switch "A" Circuit High	E8	Pending
P0222	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	E8	Pending
P2106	Throttle Actuator Control System - Forced Limited Power	E8	Pending
P2110	Throttle Actuator Control System - Forced Limited RPM	E8	Pending
P0638	Throttle Actuator Control Range/Performance Bank 1	E8	Pending
P2122	Throttle/Pedal Position Sensor/Switch "D" Circuit Low Input	E8	Pending
P2127	Throttle/Pedal Position Sensor/Switch "E" Circuit Low Input	E8	Pending
P2104	Throttle Actuator Control System - Forced Idle	E8	Pending

Remove all fault codes

Monitoring Test Results

Monitoring test performs monitoring of operating status of each sensor related to exhaust gases, and its results accordingly.

※ It may not be supported depending on the type of vehicle.



View type setting

- List
- Graph
- View the entire items
- View only fixed items

Vehicle Information

It indicates information on the vehicle.

Spread/fold

The screenshot shows a mobile application interface for OBD-II data. A hand icon is overlaid on the screen, pointing to the 'Current Data' row in the left-hand menu. A blue line connects the text 'Spread/fold' to this row. The main table displays various vehicle parameters and their values.

Item(42)	Value
Fuel system "A" status	LUT_ERR
Fuel system "B" status	LUT_ERR
Calculated Load Value	0.0
Engine Coolant Temperature	-40
Short Term Fuel Trim-Bank1	0.0
Short Term Fuel Trim - Bank 3	Not Supported.
Long Term Fuel Trim-Bank1	0.0
Long Term Fuel Trim - Bank 3	Not Supported.
Manifold Absolute Pressure	9
Sensor	0
ing Advance for 1	0
Temperature	-40
Throttle Position Sensor	Not Used.
Oxygen Sensor Location	LUT_ERR
Oxygen Sensor-Bank1/Sensor2	420
Short Term Fuel Trim-Bank1/Sensor2	Not Used.
OBD Requirement	--
Time Since Engine Start	0

The screenshot shows the 'Vehicle Information' section of the OBD-II application. The table lists specific vehicle identification and calibration data.

Item(4)	Value
VIN(Vehicle Identification Number)	Not Used.
CALID(Calibration Identifications)	QED4P84L
CALID(Calibration Identifications)	Not Supported.
CVN(Calibration Verification Numbers)	116D150B

In Use Performance Ratio

It proceeds the test using all conditions necessary to detect parts of the vehicle or system fault status, etc. in accordance with OBD-II regulation.

In addition, the user can also check number of abnormal operations of the system under a designated condition.

Monitoring items specified in OBD-II

- ✓ Catalyst (Catalyst bank1, bank2)
- ✓ Oxygen sensor (Primary oxygen sensor bank1, bank2)
- ✓ Evaporative gas leak detecting system (Evaporative 0.020" leak detecting system)
- ✓ Exhaust gas recirculation system (EGR system)
- ✓ Secondary air supply system (Secondary air system)

Item(2B)	Value
Readiness Test	
Monitor Status (I/M Readiness)	0
Monitor Status (I/M Readiness)	0
Current Data	Not Used.
Freeze Frame	0
DTC	0
Monitoring Test Results	0
Test or Component Control	0
Vehicle Information	0
In USE Performance Ratio	0
Gasoline	0
Oxygen Sensor Monitor Conditions Encountered Counts Bank1	0
Oxygen Sensor Monitor Completion Counts Bank1	0
Oxygen Sensor Monitor Conditions Encountered Counts Bank2	0
Oxygen Sensor Monitor Completion Counts Bank2	0
EGR and/or VVT Monitor Completion Condition Counts	0
EGR and/or VVT Monitor Conditions Encountered Counts	0
Air Monitor Completion Condition Counts	0
Air Monitor Conditions Encountered Counts	0
EVAP Monitor Completion Condition Counts	0
EVAP Monitor Conditions Encountered Counts	0
Secondary Oxygen Sensor Monitor Completion Counts Bank1	0
Secondary Oxygen Sensor Monitor Completion Counts Bank2	0

Item(2B)	Module ID	Value	Unit
OBD Monitoring Conditions Encountered Counts	EB	0	Count
Ignition Counter	EB	0	Count
Distance Traveled Since Evap Monitoring Decision	EB	Not Used.	km
Catalyst Monitor Completion Counts-Bank1	EB	0	Count
Catalyst Monitor Conditions Encountered Counts-Bank1	EB	0	Count
Catalyst Monitor Completion Counts-Bank2	EB	0	Count
Catalyst Monitor Conditions Encountered Counts-Bank2	EB	0	Count
Oxygen Sensor Monitor Completion Counts Bank1	EB	0	Count
Oxygen Sensor Monitor Conditions Encountered Counts Bank1	EB	0	Count
Oxygen Sensor Monitor Completion Counts Bank2	EB	0	Count
Oxygen Sensor Monitor Conditions Encountered Counts Bank2	EB	0	Count
EGR and/or VVT Monitor Completion Condition Counts	EB	0	Count
EGR and/or VVT Monitor Conditions Encountered Counts	EB	0	Count
Air Monitor Completion Condition Counts	EB	0	Count
Air Monitor Conditions Encountered Counts	EB	0	Count
EVAP Monitor Completion Condition Counts	EB	0	Count
EVAP Monitor Conditions Encountered Counts	EB	0	Count
Secondary Oxygen Sensor Monitor	---	-	-