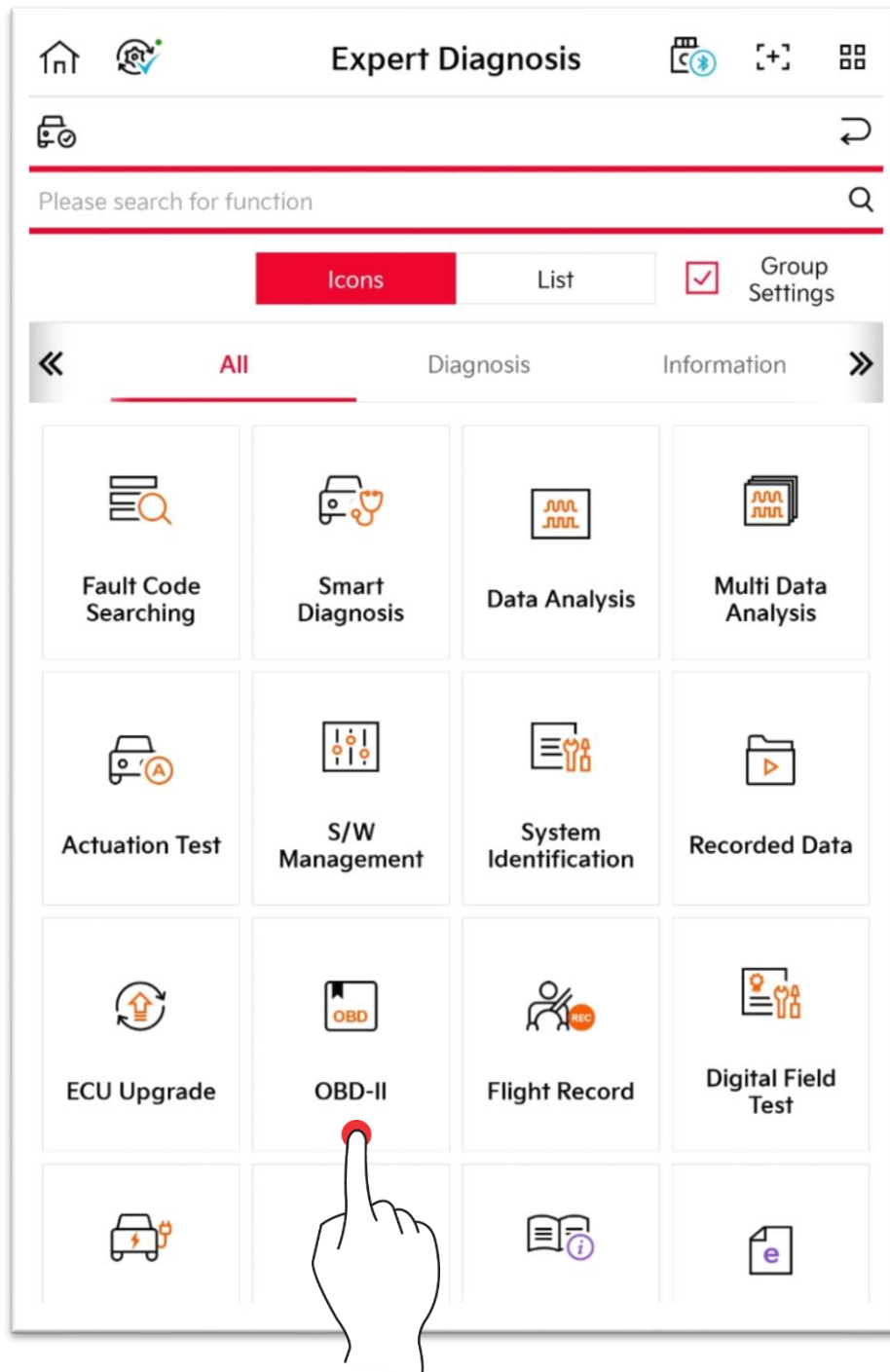


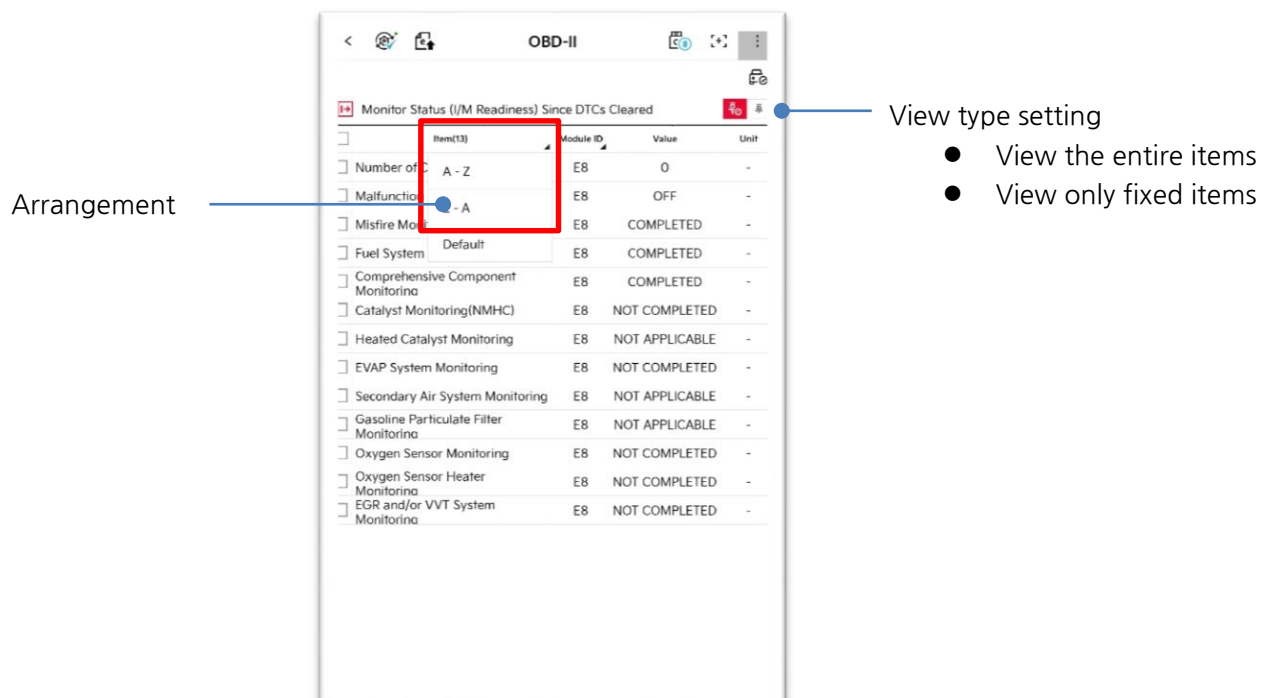
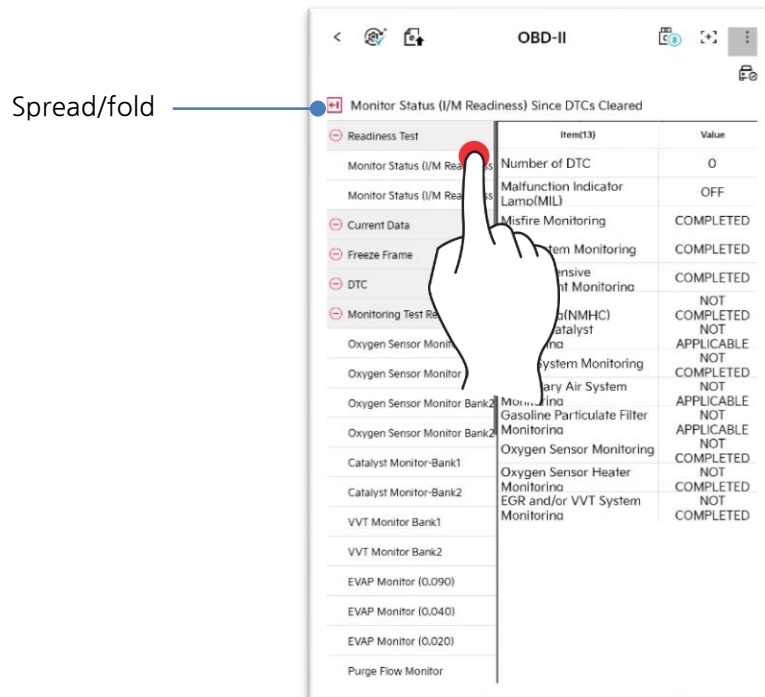
OBD-II

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



Monitoring Status

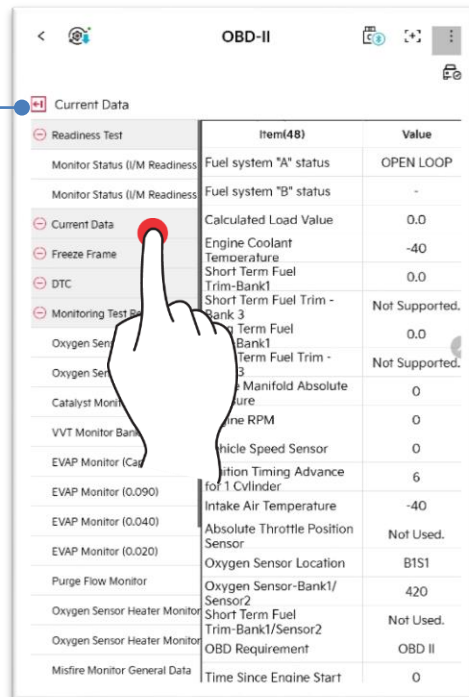
It indicates overall monitoring status on each module of the vehicle depending on OBD-II method. It indicates the status based on each item such as number of fault codes and warning light status, etc.



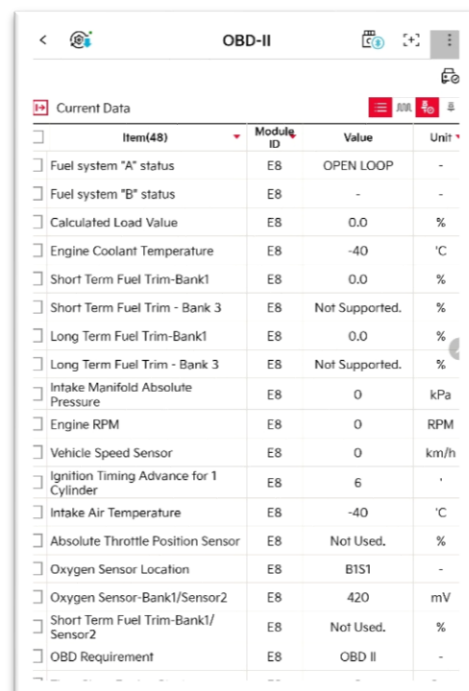
Current Data

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

Spread/fold



Item(48)	Value
Fuel system "A" status	OPEN LOOP
Fuel system "B" status	-
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.
Intake Manifold Absolute Pressure	0
Engine RPM	0
Vehicle Speed Sensor	0
Ignition Timing Advance for 1 Cylinder	6
Intake Air Temperature	-40
Absolute Throttle Position Sensor	Not Used.
Oxygen Sensor Location	B1S1
Oxygen Sensor-Bank1/Sensor2	420
Short Term Fuel Trim-Bank1/Sensor2	Not Used.
OBD Requirement	OBD II
Time Since Engine Start	0



Item(48)	Module ID	Value	Unit
Fuel system "A" status	E8	OPEN LOOP	-
Fuel system "B" status	E8	-	-
Calculated Load Value	E8	0.0	%
Engine Coolant Temperature	E8	-40	'C
Short Term Fuel Trim-Bank1	E8	0.0	%
Short Term Fuel Trim - Bank 3	E8	Not Supported.	%
Long Term Fuel Trim-Bank1	E8	0.0	%
Long Term Fuel Trim - Bank 3	E8	Not Supported.	%
Intake Manifold Absolute Pressure	E8	0	kPa
Engine RPM	E8	0	RPM
Vehicle Speed Sensor	E8	0	km/h
Ignition Timing Advance for 1 Cylinder	E8	6	'
Intake Air Temperature	E8	-40	'C
Absolute Throttle Position Sensor	E8	Not Used.	%
Oxygen Sensor Location	E8	B1S1	-
Oxygen Sensor-Bank1/Sensor2	E8	420	mV
Short Term Fuel Trim-Bank1/Sensor2	E8	Not Used.	%
OBD Requirement	E8	OBD II	-

View type setting

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

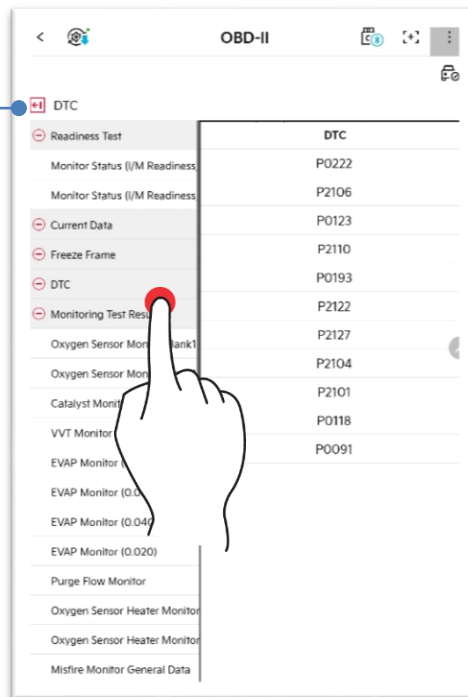
Fault Situation Data

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



The screenshot shows the OBD-II menu with the DTC option highlighted. The DTC list is displayed below the menu items.

DTC	Description	Module ID	DTC status
P0222	Throttle/Pedal Position Sensor/Switch "B" Circuit Low	E8	Pending
P2106	Throttle Actuator Control System - Forced Limited Power	E8	Pending
P0123	Throttle/Pedal Position Sensor/Switch "A" Circuit High	E8	Pending
P2110	Throttle Actuator Control System - Forced Limited RPM	E8	Pending
P0193	Fuel Rail Pressure Sensor Circuit High	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
P2101	Throttle Actuator Control Motor Circuit Range/Performance	E8	Pending
P0118	Engine Coolant Temperature Circuit High	E8	Pending
P0091	Fuel Pressure Regulator 1 Control Circuit Low	E8	Pending

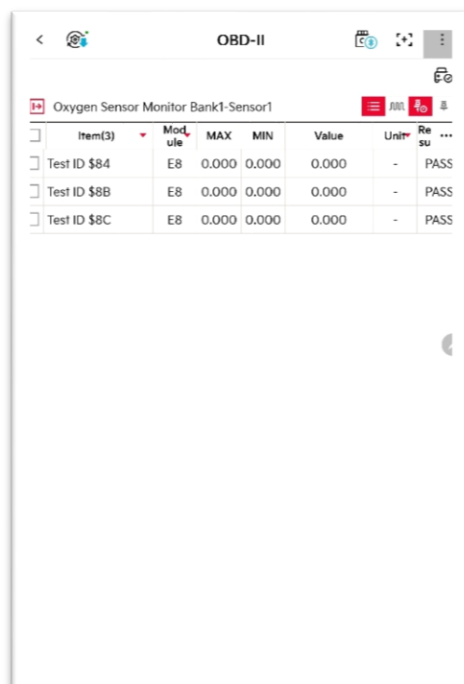
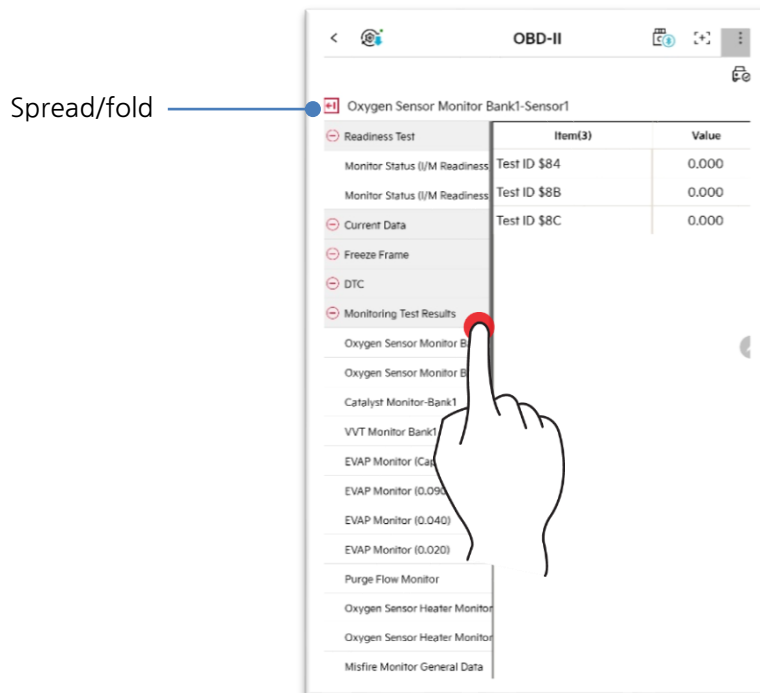
At the bottom of the screen, there are two buttons: Rescan and All Erase. The All Erase button is highlighted with a blue circle, and a line points to it with the text "Remove all fault codes".

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.



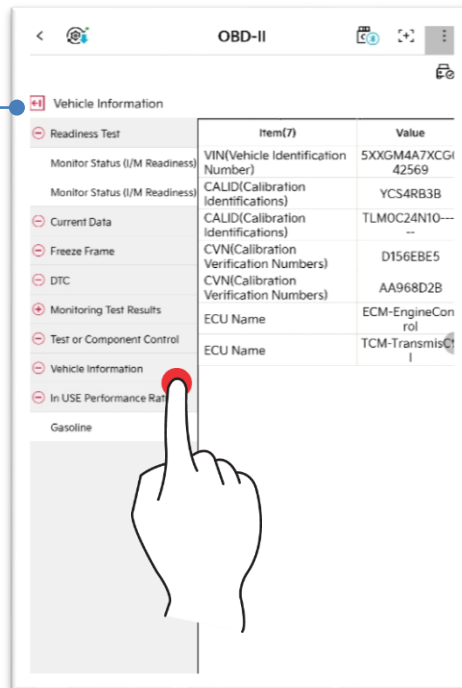
View type setting

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

Vehicle Information

It indicates information on the vehicle.

Spread/fold



The screenshot shows the OBD-II app interface with the 'Vehicle Information' screen selected. The screen is in a spread state, showing a table of items, module IDs, and values.

Item(?)	Module ID	Value
VIN(Vehicle Identification Number)	E8	5XXGM4A7XCG042569
CALID(Calibration Identifications)	E8	YCS4RB3B
CALID(Calibration Identifications)	E9	TLMOC24N10-----
CVN(Calibration Verification Numbers)	E8	D156EBE5
CVN(Calibration Verification Numbers)	E9	AA968D2B
ECU Name	E8	ECM-EngineControl
ECU Name	E9	TCM-TransmisCtrl

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)

OBD-II				
Current Data				
Readiness Test	Item(48)	Value		
Monitor Status (I/M Readiness)	Fuel system "A" status	OPEN LOOP		
Monitor Status (I/M Readiness)	Fuel system "B" status	-		
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 Bank1	Long Term Fuel Trim-Bank1	0.0		
Oxygen Sensor Monitor Bank1	Long Term Fuel Trim - Bank 3	Not Supported.		
Catalyst Monitor-Bank1	Intake Manifold Absolute Pressure	0		
VVT Monitor Bank1	Engine RPM	0		
EVAP Monitor (Cap Off)	Vehicle Speed Sensor	0		
EVAP Monitor (0.090)	Ignition Timing Advance for 1 CVlinder	6		
EVAP Monitor (0.040)	Intake Air Temperature	-40		
EVAP Monitor (0.020)	Absolute Throttle Position Sensor	Not Used.		
Purge Flow Monitor	Oxygen Sensor Location	B1S1		
Oxygen Sensor Heater Monitor	Oxygen Sensor-Bank1/Sensor2	420		
Oxygen Sensor Heater Monitor	Short Term Fuel Trim-Bank1/Sensor2	Not Used.		
Misfire Monitor General Data	OBD Requirement	OBD II		
	Time Since Engine Start	0		

OBD-II				
Gasoline				
	Item(28)	Module ID	Value	Unit
	OBD Monitoring Conditions Encountered Counts	E8	0	Count
	Ignition Counter	E8	0	Count
	Catalyst Monitor Completion Counts-Bank1	E8	0	Count
	Catalyst Monitor Conditions Encountered Counts-Bank1	E8	0	Count
	Catalyst Monitor Completion Counts-Bank2	E8	0	Count
	Catalyst Monitor Conditions Encountered Counts-Bank2	E8	0	Count
	Oxygen Sensor Monitor Completion Counts Bank1	E8	0	Count
	Oxygen Sensor Monitor Conditions Encountered	...	0	Count
	Oxygen Sensor Monitor Completion Counts Bank2	E8	0	Count
	Oxygen Sensor Monitor Conditions Encountered	...	0	Count
	EGR and/or VVT Monitor Completion Condition Counts	E8	0	Count
	EGR and/or VVT Monitor Conditions Encountered Counts	E8	0	Count
	Air Monitor Completion Condition Counts	E8	0	Count
	Air Monitor Conditions Encountered Counts	E8	0	Count
	EVAP Monitor Completion Condition Counts	E8	0	Count
	EVAP Monitor Conditions	E8	0	Count

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