OBD-II







OBD $\rm I\!I$ mode is used to display generic vehicle powertrain diagnostic data. The vehicle communication protocol is automatically determined when OBD II mode is selected.

Readiness Test

The System and status of the READINESS TESTS supported for each MODULE within the vehicle will be displayed. The number of DTCs present and the MIL status will also be displayed.



Current Data

The CURRENT DATA MODE allows for sensor values and status to be displayed, based upon the standard that one component may be supported by several systems. Supporting module information is displayed in this mode.

HOME Online	SONATA/i45(Y/20	14/G 2.4 GDI	VCI 🕋	🖲 🖂
	OBD-II Curre	ent Data		
🕞 < Selee	ctive Display		Graph	>
Sensor Na	ime(21)	Module ID	Value	Unit
Calculated Load Value				%
Short Term Fuel Trim-Bank2				%
Ignition Timing Advance for	1 Cylinder			
Intake Air Temperature Sense	Dr			'C
Air Flow Rate from Mass Air	Flow Sensor			g/s
Absolute Throttle Position Se	ensor			%
Secondary Air Status				
Oxygen Sensor Location				1. - 1
Oxygen Sensor-Bank1/Sense	or2			mV
Short Term Fuel Trim-Bank1	'Sensor2			%
Oxygen Sensor-Bank2/Sens	or3			mV
Short Term Fuel Trim-Bank2/	/Sensor3			%
Distance After MIL On				km
Command Evaporative Purge	2			%
Number of Warm-ups Since	DTC Cleared			-
Distance Since DTC Cleared				km
Barometric Pressure Sensor				kPa
Catalyst Temperature-Bank1,	/Sensor1			'C
Commanded Equivalence Ra	tio			-

Freeze Frame Data

The FREEZE FRAME DATA displays the sensor data stored in the Engine Control Module at the point when the first conformed DTC is detected.

Diagnostic Trouble Code

This is to read and display the saved DTC(Diagnostic Trouble Code) on the ECU.

НОМЕ	Online SONATA/i45(Y/20	14/G 2.4 GDI	VCI 📾 👯	
OBD-II Diagnostic Trouble Code				
→ < [Rescan	All Era	se	>
DTC	Description		Module ID	Status
P0123	Throttle/Pedal Position Sensor/Switch	"A" Circuit High	E8	Pendin
P2106	Throttle Actuator Control System - For	ced Limited Power	E8	Pendin
P0222	Throttle/Pedal Position Sensor/Switch	"B" Circuit Low	E8	Pendin
P2110	Throttle Actuator Control System - For	ced Limited RPM	E8	Pendin
P0605	Internal Control Module Read Only Me	mory (ROM) Error	E8	Pendin
P2105	Throttle Actuator Control System - For	ced Engine Shutdown	E8	Pendin
P2127	Throttle/Pedal Position Sensor/Switch	"E" Circuit Low Input	E8	Pendin
P2104	Throttle Actuator Control System - For	ced Idle	E8	Pendin

Monitoring Test Result

The results of on board Readiness monitoring tests conducted during normal driving are displayed this mode.

HOME Online SONATA/i45(Y/2014/G 2	.4 GDI VCI 🕵	₩ 183
OBD-II Monitoring Tes	t Results	
Selective Display	Graph	>
Readiness Test	Sensor Name(0)	Module ID
Current Data	Not Supported.	
Freeze Frame Data		
Diagnostic Trouble Code		
R Monitoring Test Results		
Oxygen Sensor Monitor Bank1-Sensor4		
Oxygen Sensor Monitor Bank2-Sensor4		
Oxygen Sensor Monitor Bank4-Sensor2		
Oxygen Sensor Monitor Bank4-Sensor3		
Oxygen Sensor Monitor Bank4-Sensor4		
Monitor ID \$11		
Monitor ID \$12		
Monitor ID \$13		
Monitor ID \$15		
Monitor ID \$1A		
Monitor ID \$1E		
Monitor ID \$1F		
Test or Component Control		
Vehicle Information		
R In Use Performance Tracking		

Vehicle Information

Vehicle Information		
VIN		
Calibration ID ECU : TCU :		
Verification Number ECU : TCU :		
	ок	

In-USE Performance Tracking

This data is used to support possible regulatory requirements for In-use Performance Tracking. Manufacturers are required to implement software algorithms that track inuse performance for each of the flowing component:

Catalyst bank 1 Catalyst bank 2 Primary oxygen sensor bank 1 Primary oxygen sensor bank 2 Evaporative 0.020" leak detecting system EGR system Secondary air system

The parameters for each component or system shall record the number of times that all conditions necessary for a specific monitor to detect a malfunction have been met the values for each component or system shall track the number of times that the vehicle has been operated in the specified conditions. These conditions are specified for each monitored component or system.

The ignition counter shall track the number of times that the engine has been started. All data items of the In-use Performance Tracking record have to be reported in the order as shown.

HOME Online SONATA/i45(Y/2014/G 2	.4 GDI	VCI 🚌 🖣	3	
OBD-II In Use Performance Tracking				
Selective Display	Graph		>	
Sensor Name	Module ID	Value	Unit	
OBD Monitcring Conditions Encountered Counts	E8	410	Count	
Ignition Counter	E8	1172	Count	
Catalyst Mcniter Completion Counts-Bank1	E8	410	Count	
Catalyst Monitor Conditions Encountered Counts-Bank1	E8	410	Count	
Catalyst Monitor Completion Counts-Bank2	F8	0	Count	
Catalyst Monitor Conditions Encountered Counts-Bank2	E8	0	Count	
Oxygen Sensor Monitor Completion Counts Bank1	E8	443	Count	
Oxygen Sensor Monitor Conditions Encountered Counts Bank1	E8	410	Count	
Oxygen Sensor Monitor Completion Counts Bank2	E8	0	Count	
Oxygen Sensor Monitor Conditions Encountered Counts Bank2	E8	0	Count	
EGR and/or VVT Monitor Completion Condition Counts	E8	379	Count	
EGR and/or VVT Monitor Conditions Encountered Counts	E8	410	Count	
Air Monitor Completion Condition Counts	E8	0	Count	
Air Monitor Conditions Encountered Counts	E8	0	Count	
EVAP Monitor Completion Condition Counts	E8	61	Count	
EVAP Monitor Conditions Encountered Counts	E8	149	Count	
Secondary Oxygen Sensor Monitor Completion Counts Bark1	E8	418	Count	
Secondary Oxygen Sensor Monitor Conditions Encountered Counts Bank1	d _{E8}	410	Count	
Secondary Oxygen Sensor Monitor Completion Counts Bark2	E8	0	Count	