DTC Analysis

Fault Code Searching
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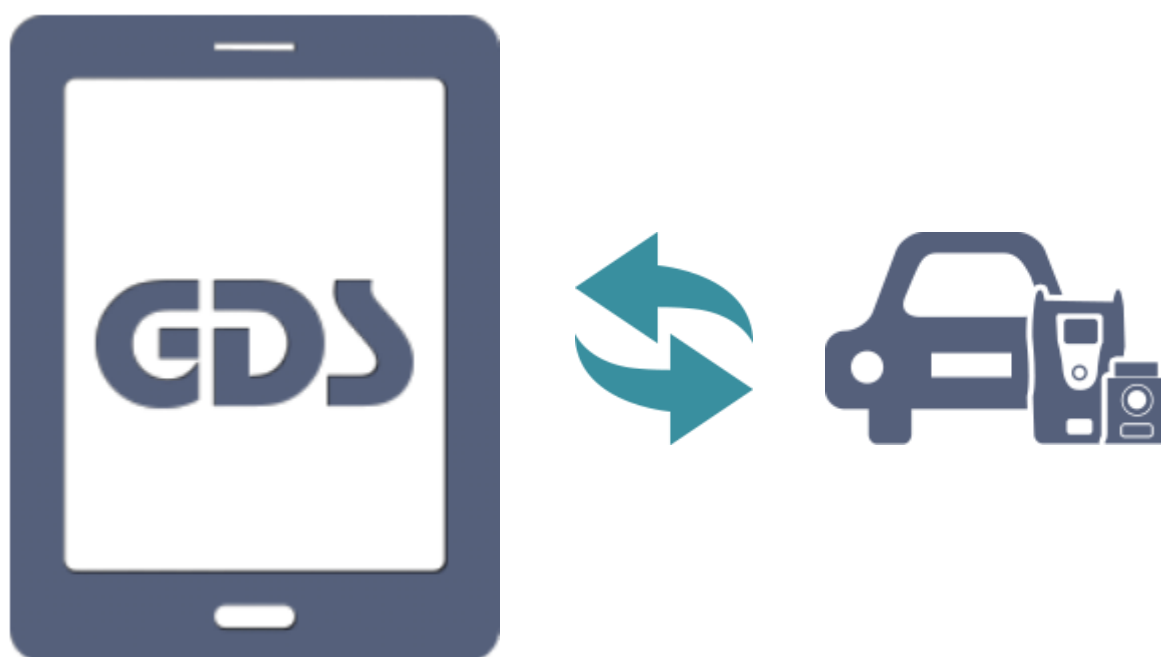**Fault Code Searching**

Fault Code Searching is to read all DTC from the selected systems and display it on the screen.

Fault Code Searching Screen

◈ Function Button

Three function buttons are supported on Fault Code Searching as below.

Rescan	Erase All DTC	Go to DTC
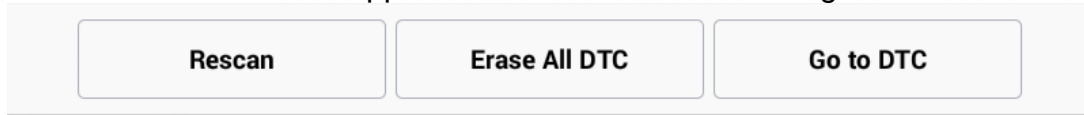
Rescan	Rescans DTC from FCS.(All the selected systems)
Erase All DTC	Erases all DTC saved on ECU.(The selected systems on FCS)
Go to DTC	Moves DTC Analysis directly.(The selected systems by the user)

◈ Current DTC searching system

It displays the current state of the DTC searching.
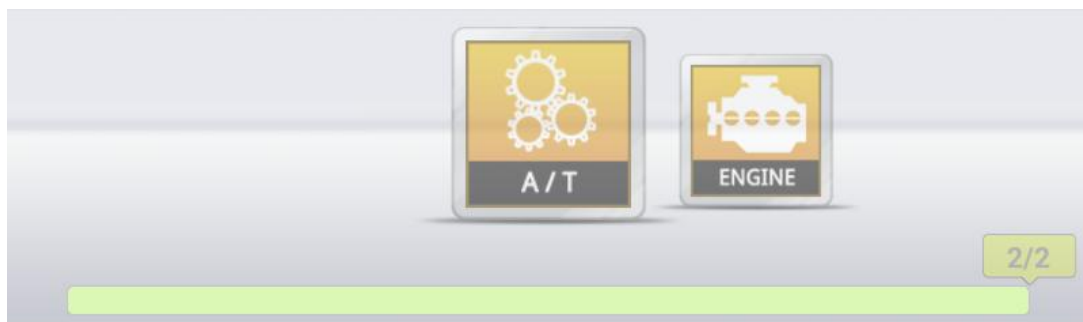
◈ DTC Result by each System

It displays DTC result by each system. When selecting the specific system, the user can check the DTC in detail by detailed result display.

| System	Status	Result
✓ ENGINE	DTC is existed.	Fault(10)
✓ AT	Communication Fail / Check whether system is installed or not. Check the IG key and DLC.	Failed

◈ DTC Detailed Result Display

System	DTC	Description	State
ENGINE	P0123	Throttle Position Sensor 1 Signal Circuit High Input	
ENGINE	P2106	Throttle Actuator Control System - Forced Limited Power	
ENGINE	P0222	Throttle Position Sensor 2 Signal Circuit Low Input	
ENGINE	P2110	Throttle Actuator Control System - Forced Limited RPM	
ENGINE	P0638	Throttle Actuator Control Range / Performance	
ENGINE	P0650	Malfunction Indicator Lamp (MIL) Control Circuit	

Fault Code Searching
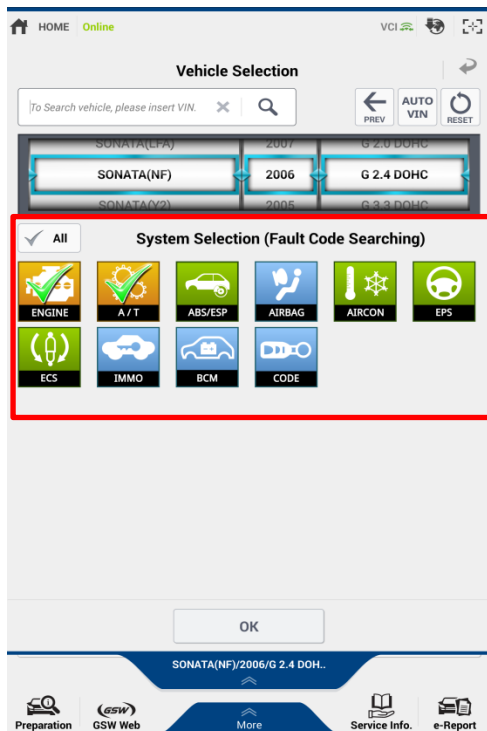
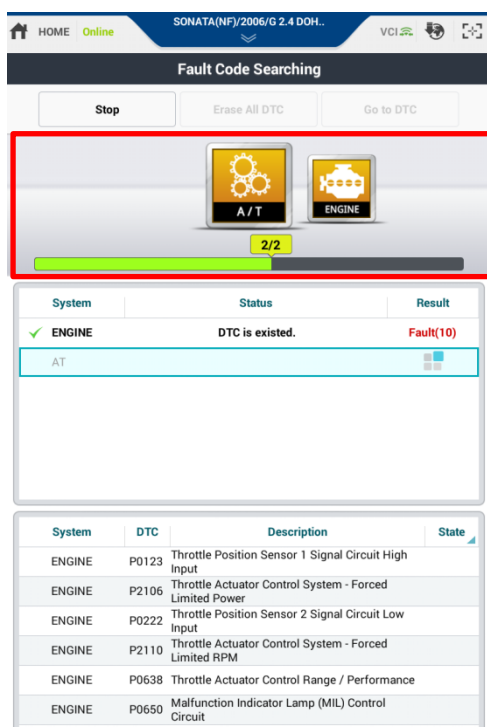**1** Select all systems of the vehicle desired to search DTC.
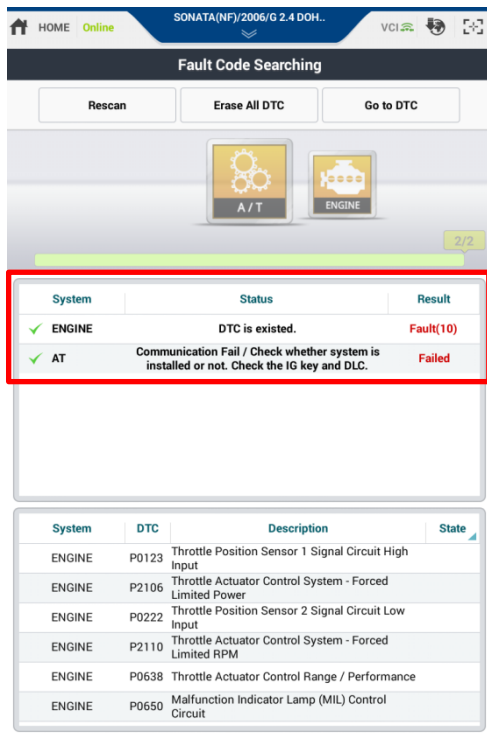
2 Tap [OK] button below.

Notice

☞ ✓ **Mark indicates the selected system**
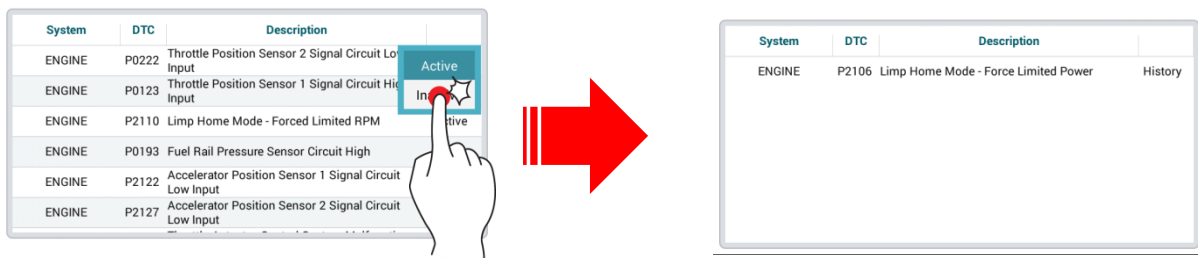

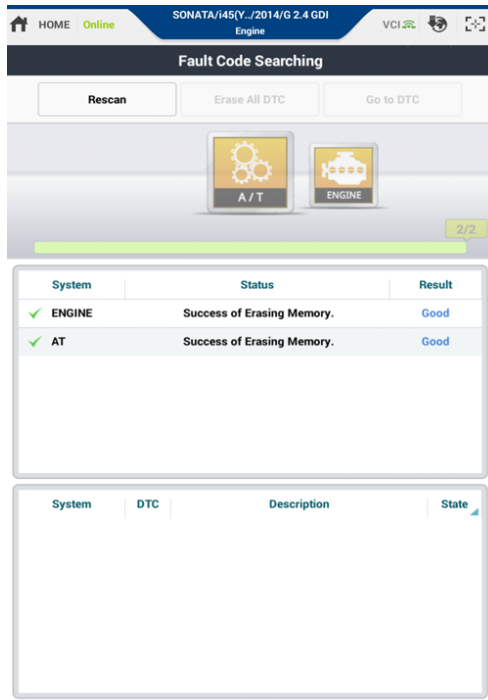
Step2

It reads DTC information from ECU sequentially.

It displays all DTC information on the screen after inspection.

◆ *Inactive DTC display*

When clicking the inactive button, users can check History DTC stored in the system.
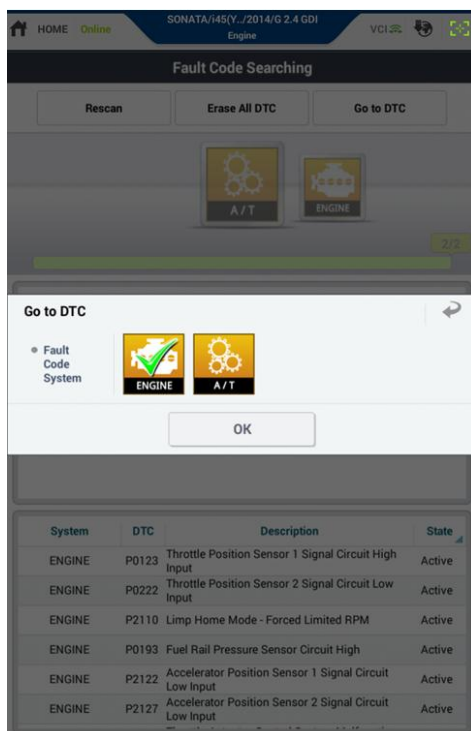
Rescan

Rescan is to rescan DTC information from ECU. After repairing vehicle, the user can check if DTC is still present.
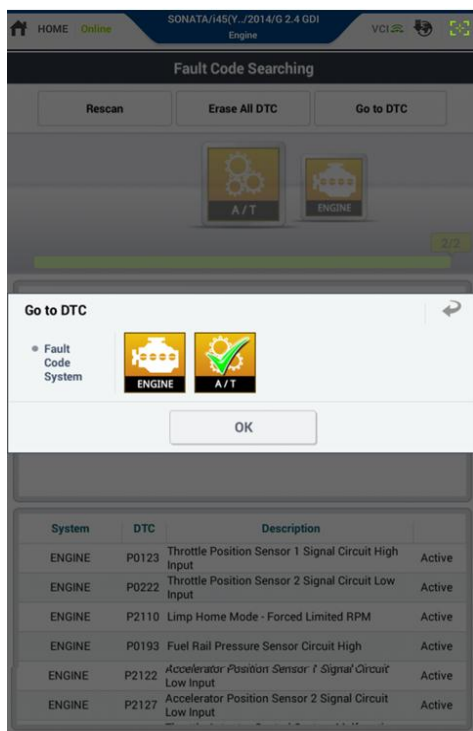
Go to DTC

The page can be moved on to DTC Analysis directly without going through the initial page.

Step1

Tap [Go To DTC] button and the pop-up window will appear for selected systems as shown on the left.

Select a system on the system list and tap [OK] button to move on to DTC Analysis.

💡 *Notice*

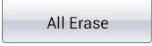☞ **To use "Go to DTC" function, Fault Code Searching must be performed in advance.**

DTC Analysis

DTC Analysis is to retrieve DTC data from a specific ECU and retrieve diagnostic procedures for any DTCs found.

DTC Analysis Screen

Safety Icon	Description
Rescan	Rescans DTC of ECU.
All Erase	Erases all DTCs saved on ECU.
DTC Guide	Shows DTC guide related to the DTC
Freeze Frame	Shows Freeze Frame at the moment when the DTC occurs
DTC status	Shows the current status of the DTC.
State	Active : Active DTC Inactive : Inactive DTC (Pending/History)
⬇	Links to S/W management function related to the DTC

DTC Status Display

There are two types of DTC detected from ECU: Active and Inactive

◈ Active DTC
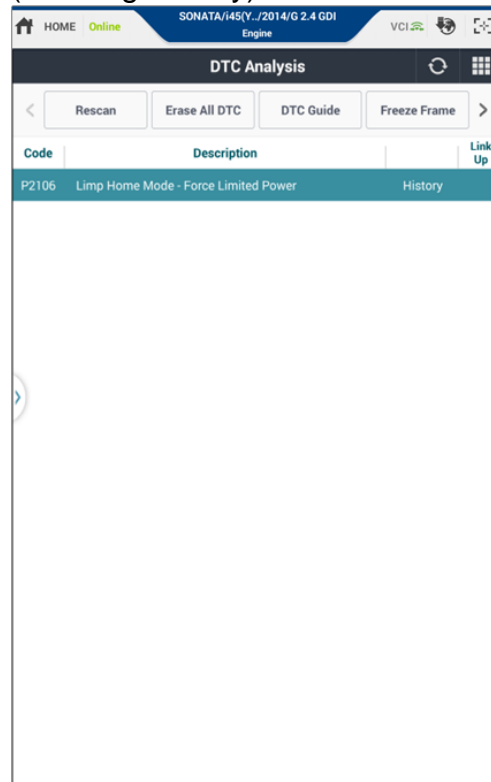
The DTC is active on ECU and it needs to be repaired.

DTC	Description	State	Link Up
P0123	Throttle Position Sensor 1 Signal Circuit High Input	Active	
P0222	Throttle Position Sensor 2 Signal Circuit Low Input	Active	
P2110	Limp Home Mode - Forced Limited RPM	Active	
P0698	Sensor Reference Voltage "C" Circuit Low	Active	
P0605	Internal Control Module Read Only Memory(ROM) Error	Active	
P2105	Limp Home Mode - Force Engine Shutdown	Active	
P2127	Accelerator Position Sensor 2 Signal Circuit Low Input	Active	
P2104	Limp Home Mode - Forced Idle	Active	
P0638	Throttle Actuator Control Range/Performance (Bank 1)	Active	

◈ Inactive DTC

The DTC is not active, currently, but it was detected on ECU previously. (Pending/History)

Code	Description	Link Up
P2106	Limp Home Mode - Force Limited Power	History

DTC Guide

The user can check DTC guide about the detected DTC at the bottom of the screen. To use DTC guide function properly, Internet should be connected and Micro card, Service Information installed, should be inserted to Tablet.

1 Select DTC item that you want to check DTC guide.

2 Tap [DTC Guide] button and you can check Service Information for the DTC by DTC Guide.

☞ **There are two options to search Service Information on GDS Mobile.**
   - **1ST Internet, 2nd SD Card**
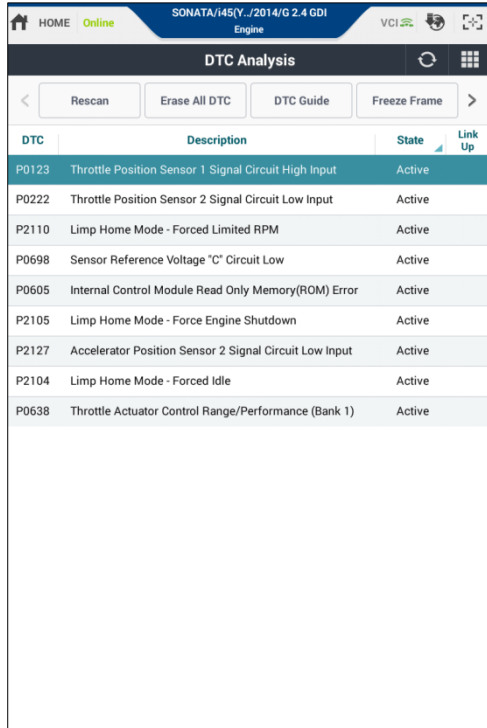   - **"SD Card only**

 * Refer to setting Service Information

☞ **To check the latest information, set [1st Internet, 2nd SD Card].**
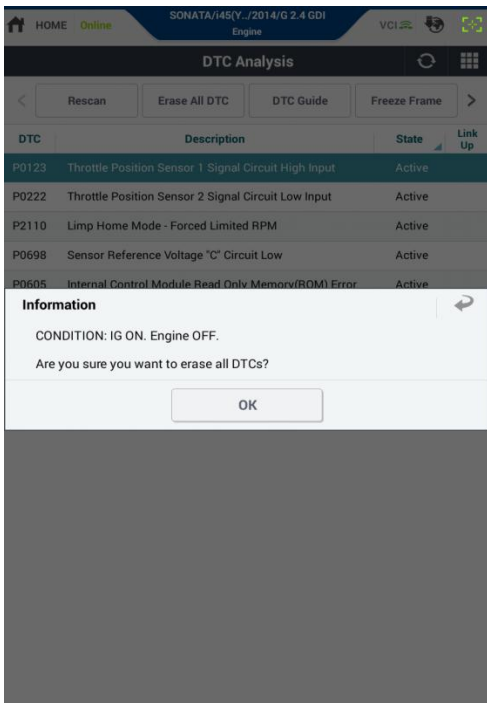
Erase All DTC

Erase All DTC is to erase the detected DTC on ECU. If the cause of the DTC is not determined, the recorded DTC can be detected again.

Step1

Tap [Erase All DTC] button.

Step2

1   Check the conditions on the pop-up message.

2   Tap [OK] button to remove all of the DTC information saved on ECU.

Freeze Frame

The FREEZE FRAME DATA displays the data values stored in the Engine Control Module at the point when the first confirmed DTC (Engine ECU Only) is detected.

DTC Status

DTC status button is to notice the status of the specific DTC. It checks the status of Warning light, the time of occurrence, the status and diagnosis completion of DTC. (DTC Status function may not be supported depending on the type of ECU module)
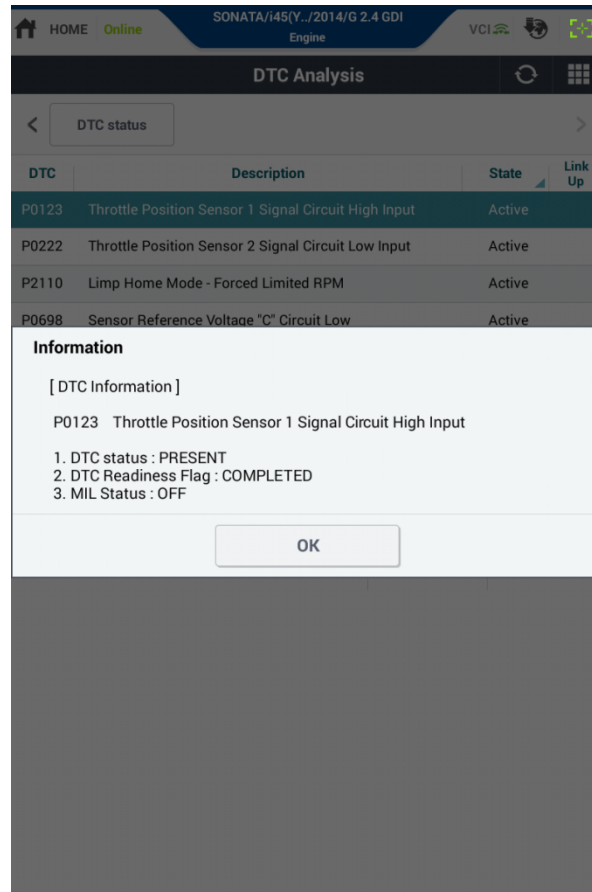
Rescan

This function is to rescan the DTC from ECU Control Module.