

ECU Upgrade





The purpose of this function is to upgrade data on the ECU(electronic control unit) to improve the vehicle performance or correct a known issue.

There are two ways to upgrade the ECU as below:

- ◆ **Auto Mode**
- ◆ **Manual Mode**



■ CAUTION

1. DO NOT start the engine and DO NOT turn the ignition key to the OFF position during the ECU upgrade.
2. Ensure that the battery is fully charged BEFORE beginning ECU upgrade.
3. Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade.
4. Review the applicable TSB/procedure before performing an ECU upgrade.
5. Make certain that the proper connector mentioned in the related TSB is used.
6. Ensure that any applicable components are replaced BEFORE performing the ECU upgrade.
7. Confirm the new ROM ID after performing an ECU upgrade.
8. Do not disconnect the communication with vehicle during upgrading the ECU!!



Do not touch any system buttons while performing this function.



Notice

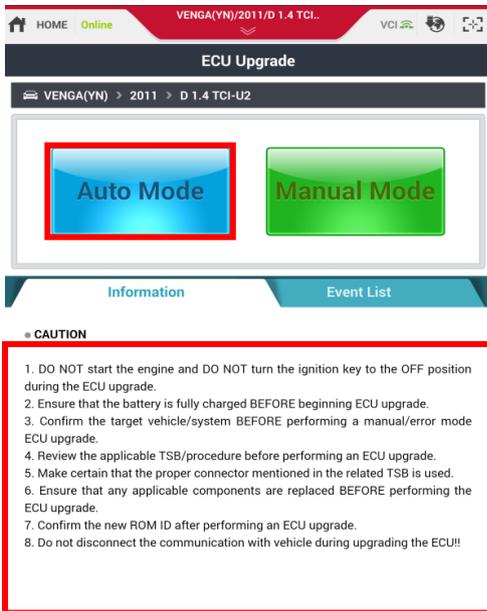
- ☞ VCI II should be paired to the KDS tablet by USB cable or Wi-Fi Direct to perform ECU Upgrade on the KDS tablet.
- ☞ If the VCI II is not paired to the KDS tablet properly or if there is a problem with vehicle communication, “Auto Mode” and “Manual Mode” on ECU Upgrade screen are inactive.

ECU Upgrade – Auto Mode

“Auto mode” means upgrade is automatically performed based on the ROM ID that is read from the current control module. It automatically compares ROMID with the events and shows only the events that should be updated. Select each event, and upgrade automatically only for the selected events.

Caution

 Before ECU upgrade, be sure to check “Information” below.



HOME Online VENG(YN)/2011/D 1.4 TCI... VCI

ECU Upgrade

VENG(YN) > 2011 > D 1.4 TCI-U2

Auto Mode **Manual Mode**

Information Event List

• CAUTION

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6. Ensure that any applicable components are replaced BEFORE performing the ECU upgrade.
7. Confirm the new ROM ID after performing an ECU upgrade.
8. Do not disconnect the communication with vehicle during upgrading the ECU!!

Step 1

Select “Auto Mode”.

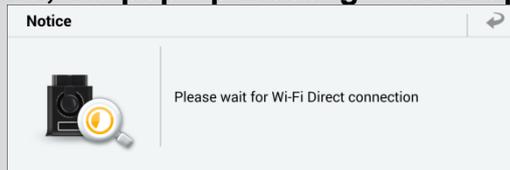


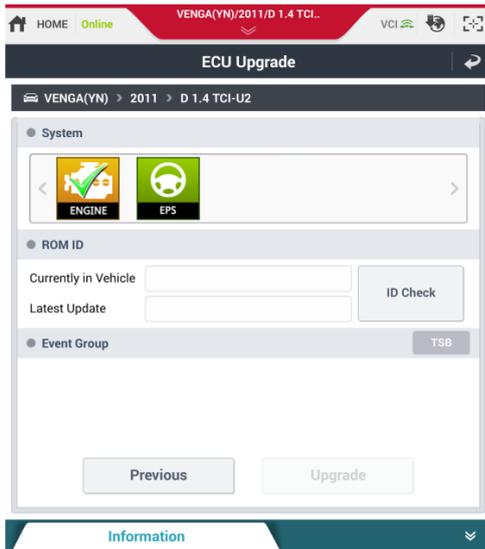
Do not touch any system buttons while performing this function.



Notice

 When VCI is not found, the pop-up message below appears.





Step2

Select the system to perform ECU Upgrade.

CAUTION

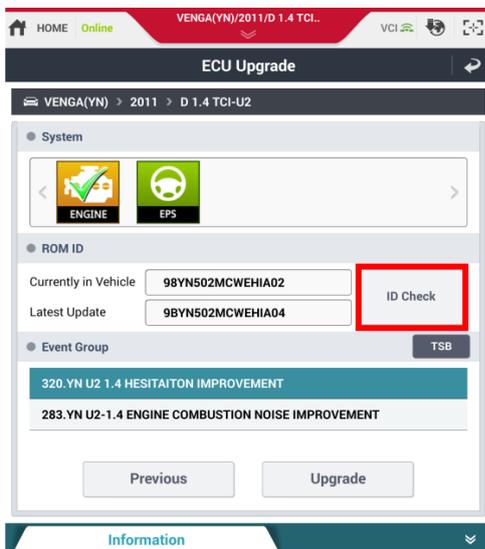
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3. Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade.
4. Review the applicable TSB/procedure before performing an ECU upgrade.
5. Make certain that the proper connector mentioned in the related TSB is used.

Do not touch any system buttons while performing this function.



Notice

It displays only the system which ECU upgrade Event is supported on the selected vehicle.



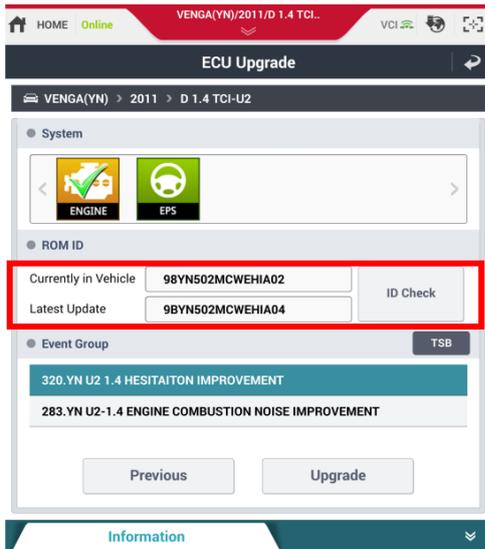
Step3

When the user presses [ID Check] button, the application software searches ROM ID on the selected system.

CAUTION

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3. Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade.
4. Review the applicable TSB/procedure before performing an ECU upgrade.
5. Make certain that the proper connector mentioned in the related TSB is used.

Do not touch any system buttons while performing this function.



Step4

1

Check “Currently in Vehicle ID” and “Latest Update ID” on “ROM ID” section.

2

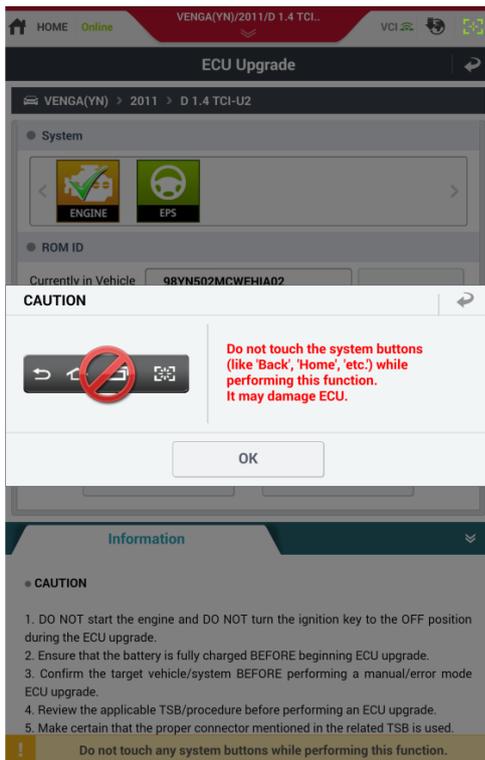
Select the Upgrade Event on “Event Group” section and tap [Upgrade] button.

• CAUTION

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3. Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade.
4. Review the applicable TSB/procedure before performing an ECU upgrade.
5. Make certain that the proper connector mentioned in the related TSB is used.



Do not touch any system buttons while performing this function.



Step5

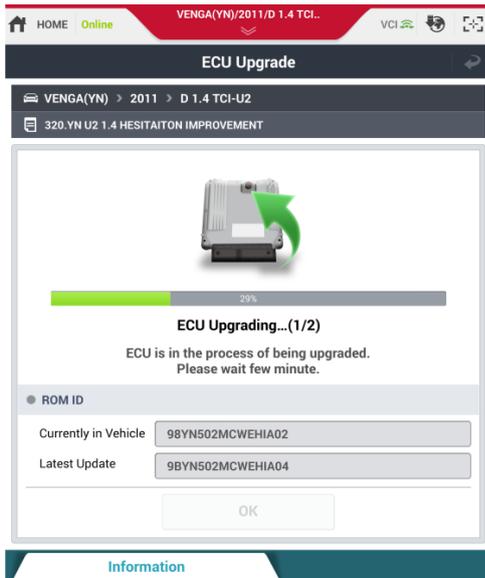
Please refer to the “Caution” and click the [OK] button.



Caution

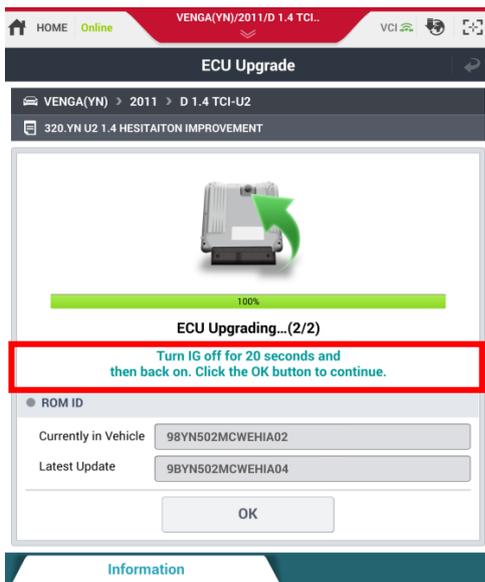
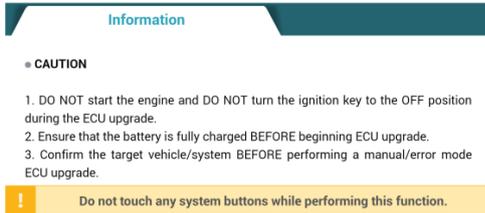


Do not touch or interrupt the program while performing ECU Upgrade.



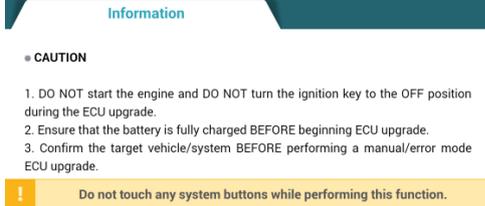
Step6

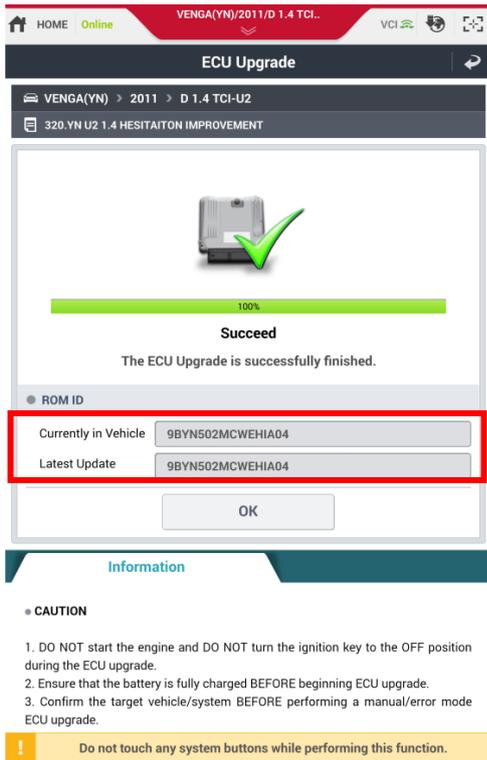
ECU upgrade is being performed automatically.



Step7

Turn IG off the 20 seconds and click the [OK] button to continue.





Step8

1

After ECU Upgrade is complete, check "Currently in Vehicle ROM ID".

Tap [OK] button.

2

The pop-up message is displayed and "Fault Code Searching" function is able to be performed as below.



ECU Upgrade – Manual Mode

“Manual mode” is used to upgrade when there is a failure during procedure or replaces a data of ECU for special purpose. It shows all events for the selected system. It is forced to upgrade data from the current ROM ID to a previous version of ROM ID. The User can select each event for the control module to update intentionally. Password should be written at this progress.

Caution

- ☞ **Manual mode must be performed only when Auto mode reprogramming failed.**
- ☞ **ECU can be damaged if the ECU specification is not matched with selected event.**
- ☞ **If Auto mode reprogramming fails, turn IG switch off for 10 seconds then place IG switch on position and then perform manual mode reprogramming**



Step1

Select “Manual Mode”

• CAUTION

1. DO NOT start the engine and DO NOT turn the ignition key to the OFF position during the ECU upgrade.
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4. Review the applicable TSB/procedure before performing an ECU upgrade.
5. Make certain that the proper connector mentioned in the related TSB is used.
6. Ensure that any applicable components are replaced BEFORE performing the ECU upgrade.
7. Confirm the new ROM ID after performing an ECU upgrade.
8. Do not disconnect the communication with vehicle during upgrading the ECU!!

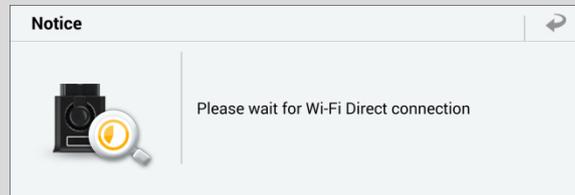


Do not touch any system buttons while performing this function.

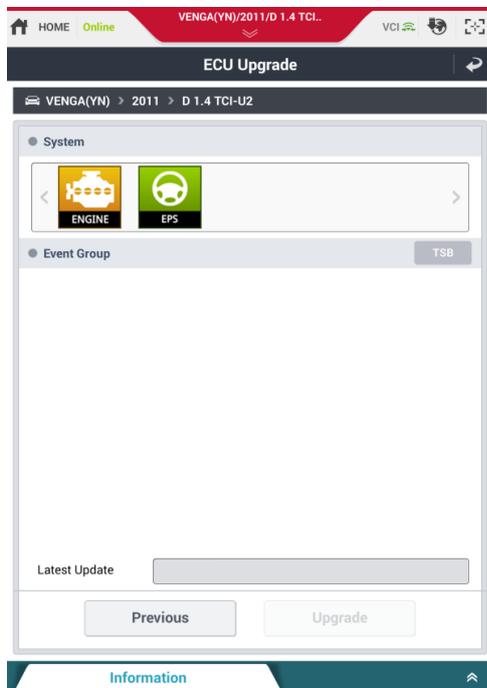


Notice

☞ When VCI is not found, the pop-up message below appears



☞ “Vehicle Selection” should be performed before executing this function.



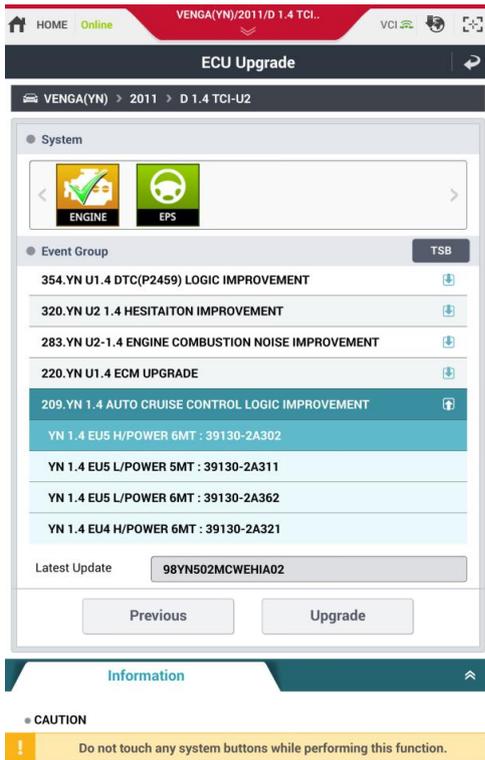
Step2

Select the system to perform ECU Upgrade.



Notice

☞ It displays only the system which ECU upgrade Event is supported at the selected vehicle.



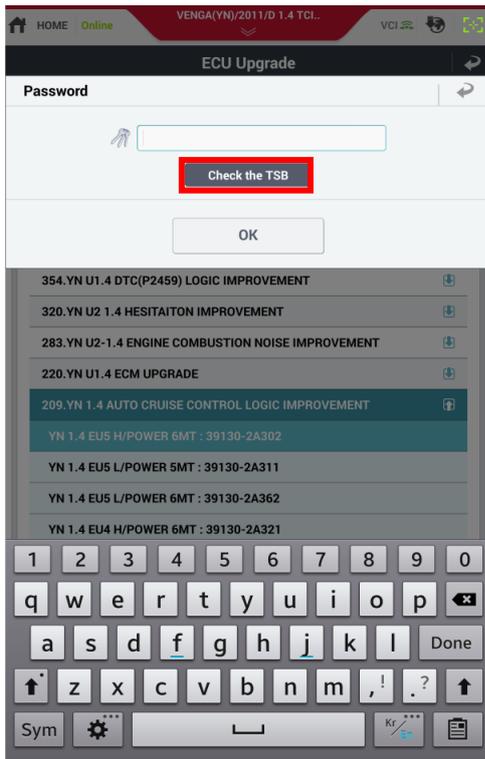
Step3

Select the ECU Upgrade Event on Event Group

Select the detailed event below.

Caution

-  Check vehicle information on the TSB document and then, perform the ECU upgrade with the correct ECU Upgrade Event.
-  If the vehicle information is not correct, it can cause a problem when performing the ECU upgrade, rendering the ECU unusable



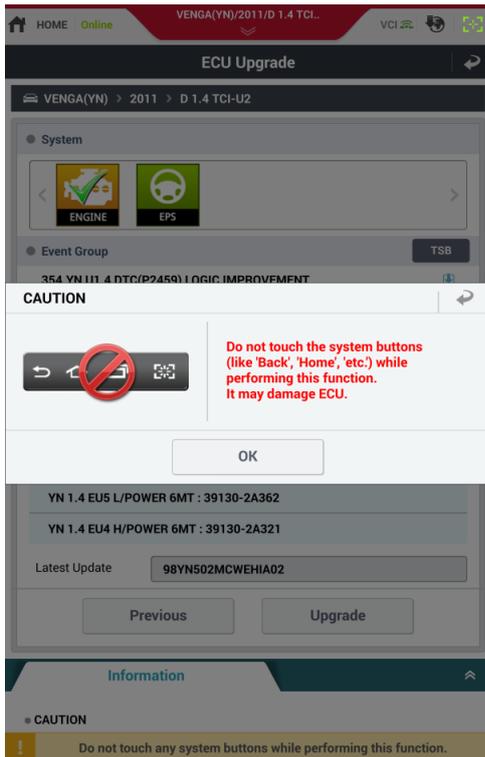
Step4

Enter Password and tap [OK] button.



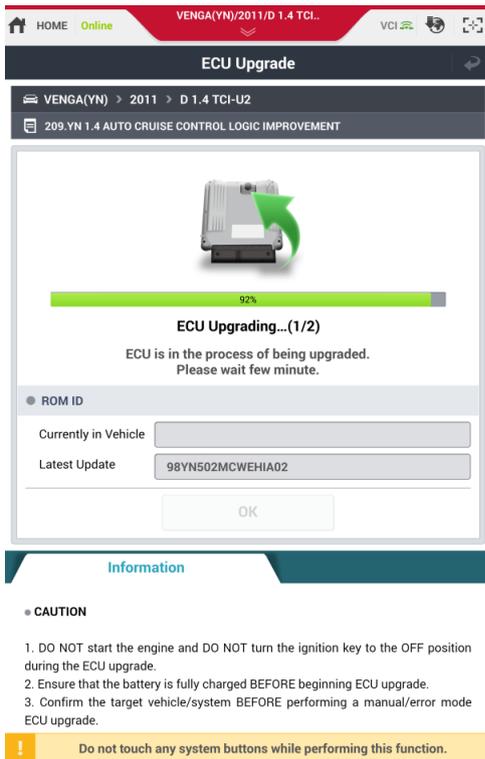
Notice

Tap [Check the TSB] button and you can open TSB information related to the ECU Upgrade Event.



Step5

Please refer to the “Caution” and click the [OK] button.



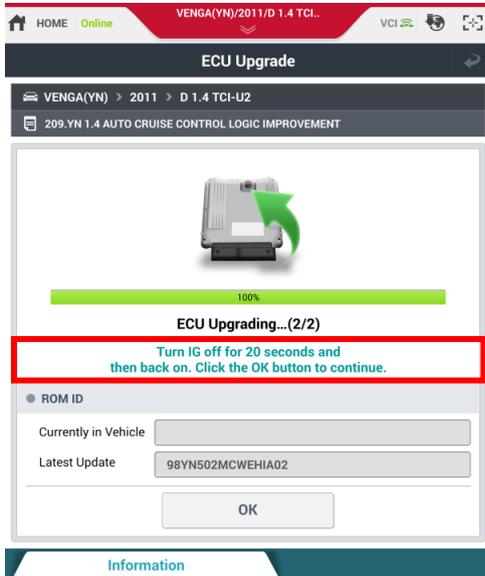
Step6

ECU upgrade is being performed automatically



Caution

Do not touch or interrupt the program while performing ECU Upgrade.

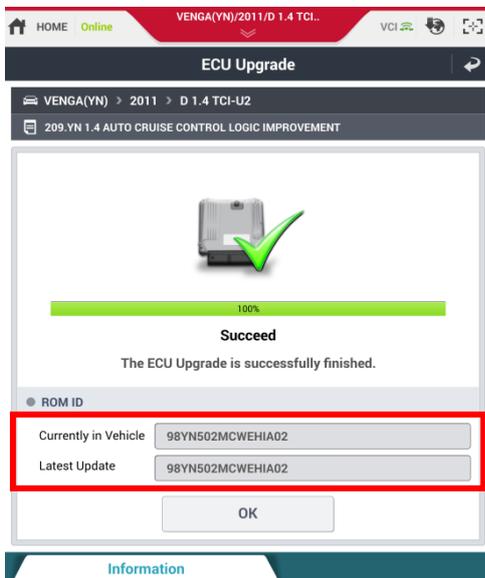


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3. Confirm the target vehicle/system BEFORE performing a manual/error mode ECU upgrade.



Do not touch any system buttons while performing this function.



CAUTION

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Do not touch any system buttons while performing this function.

Step 7

Turn IG off for 20 seconds and click the [OK] button to continue.

Step 8

1

After ECU Upgrade is complete, check "Currently in Vehicle ROM ID".

2

Tap [OK] button. The below pop-up message appears and "Fault Code Searching" function is able to be performed.



