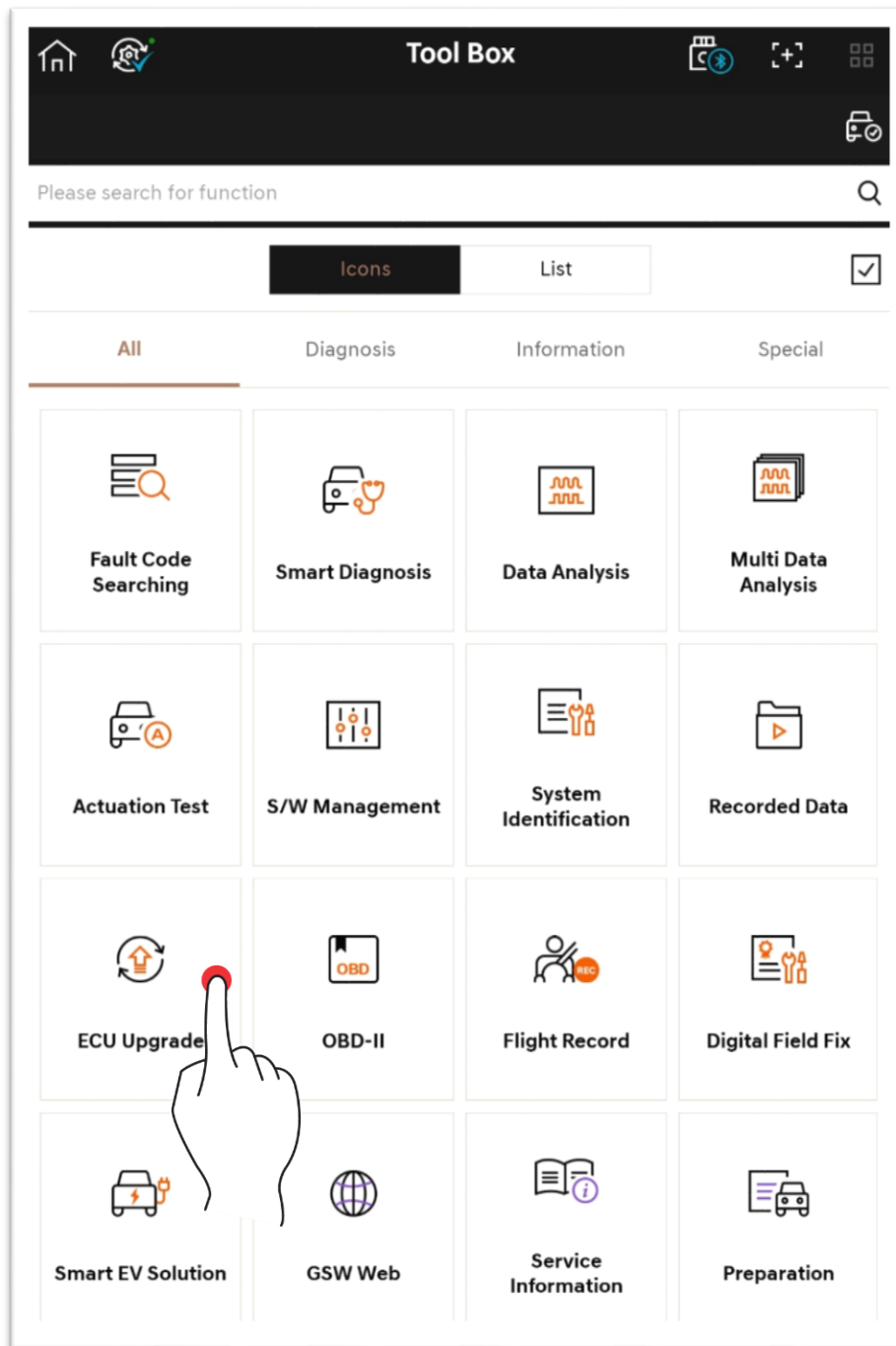


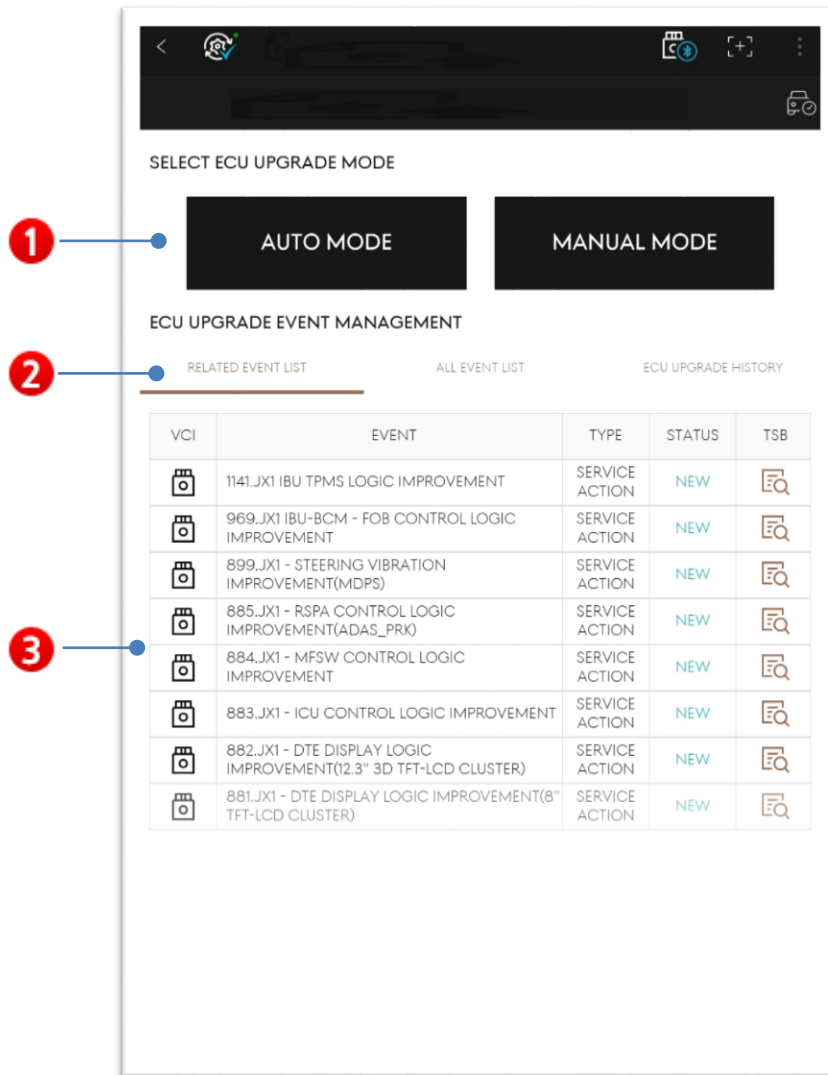
## Tool Box – ECU Upgrade

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.



## Screen Configuration

It performs forced self-driving of an actuator to be inspected, and checks the normal driving status through change of the sensor data.



|          |  |
|----------|--|
| <b>1</b> | You can select automatic mode/manual mode.   |
| <b>2</b> | You can check all ECU upgrade lists that are supported or ECU upgrade list that corresponds to the selected vehicle, and History |
| <b>3</b> | You can check ECU upgrade name and the communication module type to be used for ECU upgrade.                                     |

## Automatic Mode

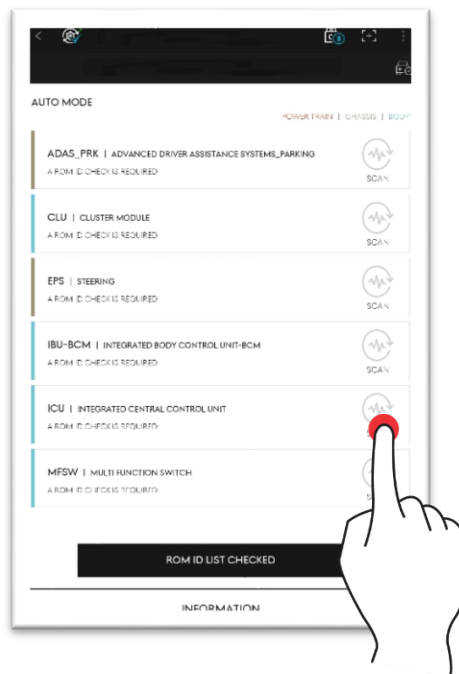
It communicates with the vehicle, automatically searches the ECU upgrade event that corresponds to the vehicle, and checks ROM ID.

It can reduce the possibility of the user to perform an invalid ECU upgrade.

## Event Search and ROM ID Check

It is currently checking ECU upgrade event and ROM ID which correspond to the selected vehicle.

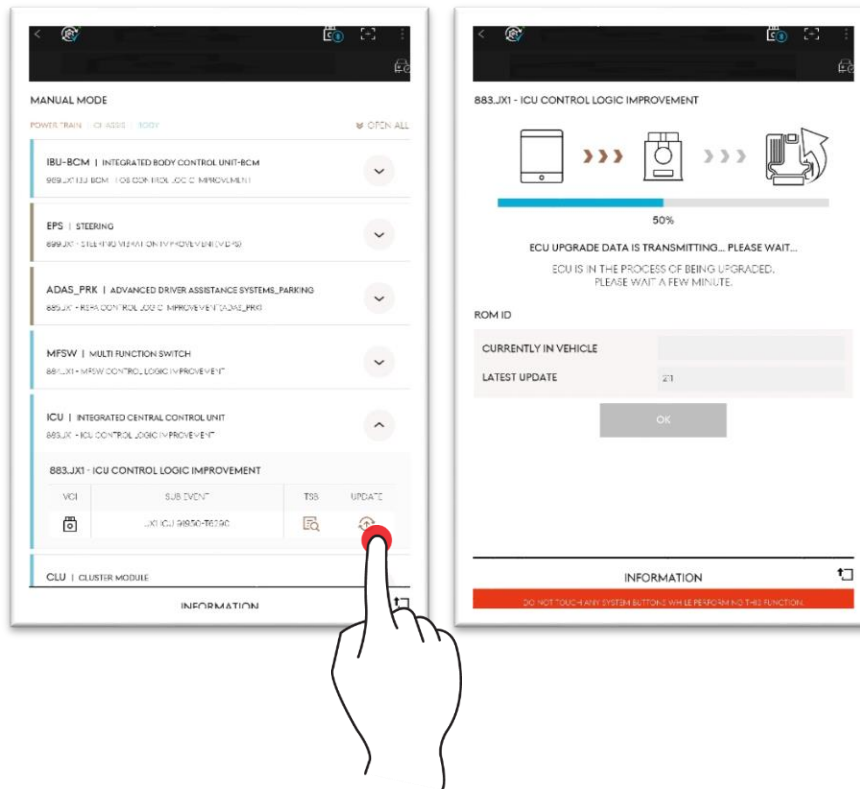
If ROM ID check has failed, use the icon on the right side of the controller or bottom button to reattempt ROM ID check.



## ECU Upgrade Proceeding

After ROM ID is checked, touch Upgrade button.

ECU upgrade will proceed.



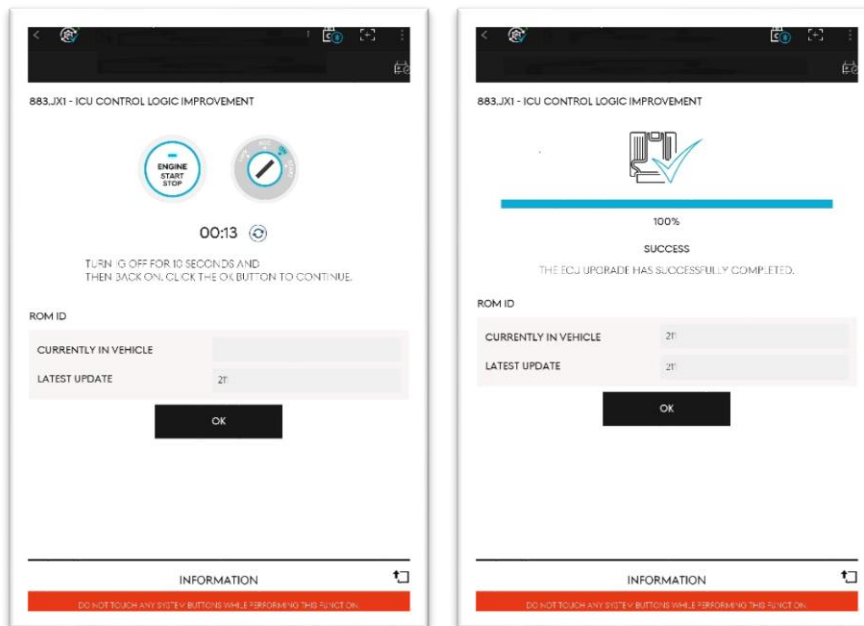
### Caution

Before performing ECU upgrade, make sure to press Notification button at the bottom of the screen to view precautions.

## Completion

ECU upgrade is completed after turning the Drive key to Off and On in accordance with the guide text.

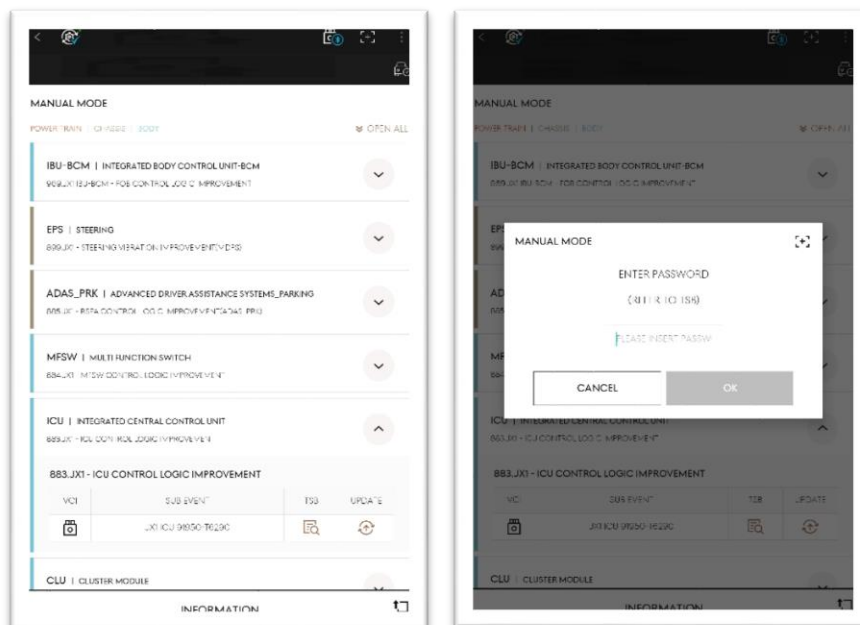
Use the recent ROM ID to check the change status, and check whether ECU upgrade is performed normally.



## Manual Mode

Manual Mode is used either when Automatic Mode has failed, or for proceeding an alternative upgrade for certain purposes. It indicates all events related to the selected system when this function is operated, and ECU upgrade is proceeded arbitrarily regardless of the current ROM ID.

After selecting an ECU upgrade event based on the user's intention, the user needs to enter the passwords.



### Caution

- ✓ If the selected event and the controller's specification are not matched, ECU may be damaged.
- ✓ If Automatic Mode is failed, the upgrade should be proceeded again in Manual Mode.
- ✓ If it is failed to update in Automatic Mode, turn IG OFF for 10 seconds, and turn it ON again to proceed the upgrade again.

## ECU Upgrade Proceeding

ECU upgrade will proceed.



## Completion

ECU upgrade is completed after turning the Drive key to Off and On in accordance with the guide text.

Use the recent ROM ID to check the change status, and check whether ECU upgrade is performed normally.

