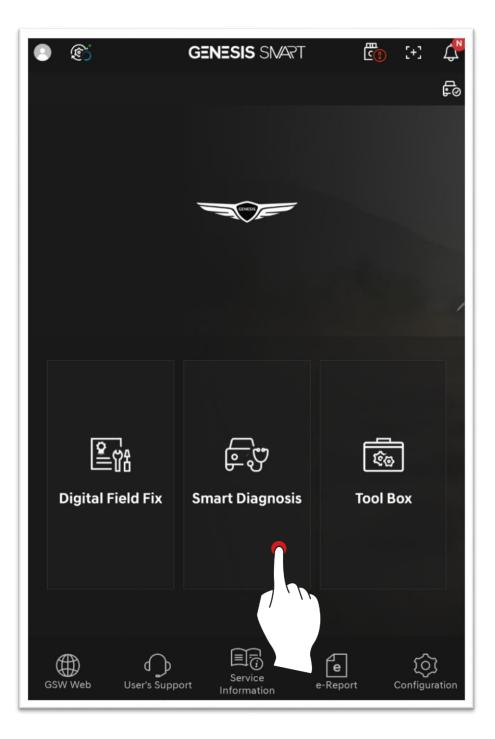


# ToolBox – Smart Diagnosis

This function provides comprehensive diagnosis results on the selected vehicle's system.

You can check various functions such as the presence/non-presence of fault codes, ECU upgrade target status and ECU mapping check, etc. at once.



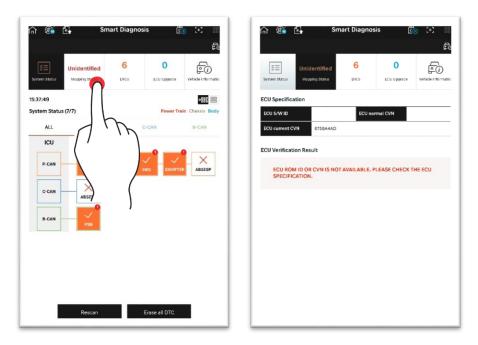
# Screen Configuration

| System Status | –<br>Mapping Status | 0<br>DTCs | EC         | O<br>CU Upgrade | vehicle Inform |
|---------------|---------------------|-----------|------------|-----------------|----------------|
| System Statu  | ıs (0/47)           |           |            | Power Train     |                |
| ALL           | P-CAN C             | C-CAN     | B-CAN      | M-CAN           | E-CA           |
| ICU           |                     |           |            |                 |                |
|               | 0                   | $\odot$   | $\odot$    | $\odot$         | $\odot$        |
|               | ENGINE              | AT        | 4WD        | ESHIFTER        | ABSESP         |
| P-CAN         |                     |           |            |                 |                |
|               | AIRBAG              | AIRCON    | AHS        | AVN             | IBU-BCN        |
|               | $\odot$             | $\odot$   | $\odot$    | ]               |                |
|               | IBU-SMK             | IBU-TPMS  | ICU        |                 |                |
|               | $\odot$             | $\odot$   | $\bigcirc$ |                 | $\odot$        |
|               | ABSESP              | EPS       | ECS        | ADAS_PRK        | FR_CMR         |
| C-CAN         |                     |           |            |                 |                |
|               | FR_RADAR            | CLU       | DVRS       | HUD             | MFSW           |
|               |                     | $\odot$   |            |                 |                |
|               | Stop                |           | <b>F</b>   | all DTC         |                |

| 0 | It briefly shows the selected vehicle type/system's number of fault codes, number of ECU upgrade targets, mapping status and vehicle information. If you select an item, you will be provided with a link to the corresponding function. |
|---|--|
| 2 | You can select a mode for showing the diagnosis results of the system.<br>It is provided as icon type (CAN topology type) and list type.   |
| 8 | It shows the progress of diagnosis communication, as well as number of fault codes per system and ECU upgrade targets.   |
| 4 | You can re-search or delete fault codes.   |

## Top Menu – ECU Mapping Status

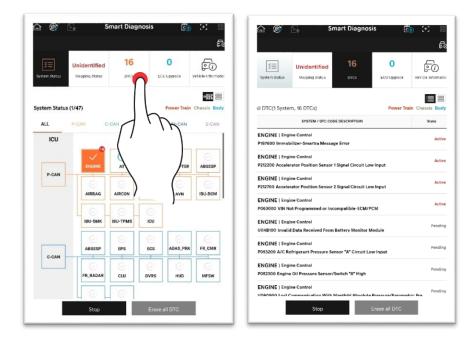
It shows results on mapping status through comparison of CVN values of the controller.



### Top Menu – Fault Code

It shows a list of fault codes that are searched.

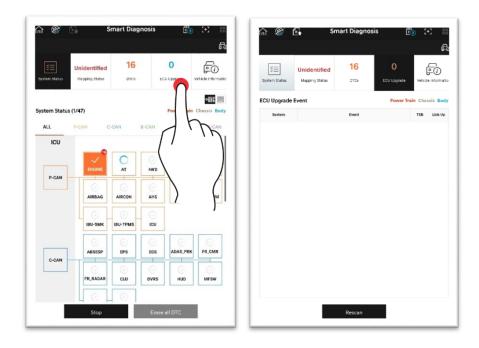
For detailed information, please refer to 'Fault Code Diagnosis' guide.



### Top Menu – ECU Upgrade

You can check the list of ECU upgrades that are searched.

When you select ECU upgrade item, it is linked to ECU upgrade function. For detailed information, please refer to 'ECU Upgrade' guide.



| < '        | ECU UPGRADE 1.075                                    |                   | <b>E</b> (1) |       |
|------------|--|-------------------|--------------|-------|
|            | ETELESCIESCIES G70(K)/70                             | 121/G 2.0 T-GI    | ж            |       |
| ELECT      | ECU UPGRADE MODE                                     |                   |              |       |
|            | AUTO MODE  | MANUAL            | MODE         |       |
|            |  |                   | CU UPORADE I | SIORY |
| <b>VCI</b> | EVENT  | TYPE              | STATUS       | -51   |
| õ          | 180.JR EV SCU LOGIC IMPROVE UPGRADE                  | SERVICE<br>ACTION | NEW          | Ec    |
| ō          | 11/9, RG3 EV SCU LOGIC IMPROVE UPGRADE               | SERVICE<br>ACTION | NEW          | Ec    |
| ō          | 1175.JWI SOU LOGIC IMPROVE UPGRADE                   | SERVICE<br>ACTION | NEW          | Ec    |
| 0          | 162_JWI 22MY USM TRALER SIGNAL<br>PROCESSING CHANGES | ACTION            | NEW          | Ec    |
| ō          | 149W SBW SHOWROOM MODE LOCIC<br>IMPROVEMENT          | SERVICE<br>ACTION | NEW          | Ec    |
| ō          | 1141JX1 IBJ TPMS LOGIC IMPROVEMENT                   | SERVICE<br>ACTION | NEW          | Ec    |
| 0          | 1095 JK 18 3.0 DCU LOGIC IMPROVEMENT                 | SERVICE<br>ACTION | NEW          | Ē     |
| 0          | 1094XI IS 3.0 ECU LOG C IMPROVEMENT                  | ACTION            | NEW          | Ē     |
| ō          | 107LECS EV VOMS SOFTWARE LOGIC<br>IMPROVEMENT        | STRVICT<br>ACTION | NEW          | Ec    |
| ō          | 1088.RG8 AMBIENT LAMP COLOR CHANGE<br>NOT POSSIBLE   | SERVICE<br>ACTION | NEW          | Ec    |
| ٥          | 1048JK PE R22 INCORRECT DISPLAY OF GSI               | SERVICE<br>ACTION | NEW          | Ec    |
| 問          | 1042_JKI CLUSTER CONTROL LOGIC<br>IMPROVEMENT        | SERVICE<br>ACTION | NEW          | FC    |

## Top Menu – Vehicle Information

It provides information of vehicle and warranty repair history, etc.

|              | Inidentified<br>Mapping Status | 16<br>DICs | ы        | O<br>CU Upgrade | Peticle 1 | j≡<br>System Status | Unidentified<br>Mapping Status | <b>16</b>        | O<br>ECU Upgrade | Veh    |
|--------------|--------------------------------|------------|----------|-----------------|-----------|---------------------|--------------------------------|------------------|------------------|--------|
| m Status (1/ | 47)                            |            |          | Power Train     | Chassis   | Veh                 | sicle Information              |                  | Hot Fix          |        |
|              | CAN C                          | D-CAN      | B-CAN    | M-CAN           | 11        | Ven                 | icle Information               |                  | Warranty Hi      | istory |
| ICU          |                                |            |          |                 | ( '       | Product Info        | rmation                        |                  |                  |        |
|              | ~                              | 0          |          |                 |           | There is no re      | esponse or no results t        | from the server. |                  |        |
| P-CAN        | ENGINE                         | AT         | 4WD      | ESHIFTER        | 1         | + Key No.           |                                |                  |                  |        |
|              | AIRBAG                         | AIRCON     | e<br>Ahs | AVN             | IBU-BL.m. | • PIN Code          |                                |                  |                  |        |
|              | 0                              | 0          | 0        | 1               |           |                     |                                |                  |                  |        |
|              | IBU-SMK                        | IBU-TPMS   | ICU      |                 |           |                     |                                |                  |                  |        |
|              | 0                              | 0          | 0        | Ø               | 0         |                     |                                |                  |                  |        |
| C-CAN        | ABSESP                         | EPS        | ECS      | ADAS_PRK        | FR_CMR    |                     |                                |                  |                  |        |
|              | FR_RADAR                       | CLU        | DVRS     | ()<br>HUD       | MESW      |                     |                                |                  |                  |        |
|              |                                |            |          |                 |           |                     |                                |                  |                  |        |

### **Diagnosis Results**

Diagnosis communication process and results are provided as icon type (CAN topology) and list type.

|                |                                |            |             |                 | fe                 |   |   |                            |                  |              |
|----------------|--------------------------------|------------|-------------|-----------------|--------------------|---|---|----------------------------|------------------|--------------|
|                | Inidentified<br>Mapping Status | 16<br>DICS | ы           | O<br>Cu upgrede | vehicle Informatio | System Status                                   | Unidentified<br>Mapping Status  | 16<br>DTCs                 | O<br>FCU Upgeade | (Vehicle Inf |
| item Status (1 | (47)                           |            |             | Power Train     | Chassis Body       | 13:15:13<br>Q System St                         | tatus (1/47)  |                            | Power Tra        | n Chassis    |
| ICU            | -can c                         | CAN        | B-CAN       | M-CAN           | E-CAN              | Boot S/W IDs<br>Calibration ID<br>Active Diagno | Engine Control<br>Application S/W ID :<br>: TJK-INUGHESOMOK<br>skip Session : 03<br>recture Space Part Numb | wi:                        | <b>16</b>        | O<br>Event   |
| P-CAN          |                                | AT         | 4WD         | ESHIFTER        | ABSESP<br>IBU-BCM  |   | atic Transaxle<br>ion Fail / Check whether is<br>key and DLC.   | sion is installed or not.  | 0                | Carling      |
|                | IBU-SMK                        | BU-TPMS    |             |                 |                    | 4WD   4WD<br>Communicati<br>Check the IG        | ion Heil / Check whether s  | etern is installed or not. | (                | handy        |
| C-CAN          | ABSESP<br>FR_RADAR             | EPS<br>CLU | ECS<br>DVRS | ADAS_PRK        | FR_CMR             | ESHIFTER<br>Communicati<br>Check the IO         | ion Fall / Check whether s  | atem is installed or not.  | (                |              |
|                | 0                              | 0          |             |                 |                    | ABSESP  | ABS/ESP(SPORT)  |                            |                  |              |

#### Icon Type (CAN Topology)

It shows diagnosis communication process and results as icon type. You can check it for each CAN line.

|                           |   |  | gnosis                | 0  | (+) ==                                     | r 🔊                                    |   |                              | gnosis                     | <u>()</u>                                  | Œ                          |
|---------------------------|---|--|-----------------------|--|--|--|---|------------------------------|----------------------------|--|----------------------------|
| item Status               | Unidentified<br>Mapping Status  | 16<br>DICs   | FO                    | 0<br>U Upgrade   | vehicle Informatio                         | System Status                          | Unidentified<br>Mapping Status                              | 16<br>DTCs                   | c                          | O<br>CU Upgrade                            | ehicle inf                 |
|                           |   |  |                       |  | •***                                       |  |   |                              |                            |  | 0 <mark>00</mark>          |
| tem Status (<br>ALL       |   | -CAN   | B-CAN                 | Power Train  | Chassis Body<br>E-CAN                      | System Stat                            |   | C-CAN                        | B-CAN                      | Power Train                                | Chassis                    |
| ICU                       |   |  |                       | and the second second  |  | ICU                                    | - und   |                              | 0-CAM                      | IN CONTR                                   | £.,                        |
|                           | ~   | 0  | Ø                     | 0  | 0  |  | 0   | .0                           | Ø                          | 0  | C                          |
| P-CAN                     | ENGINE  | AT   | 4WD                   | ESHIFTER   | ABSESP                                     | C-CAN                                  | ABSESP  | EPS                          | ECS                        | ADAS_PRK                                   | FR_CA                      |
|                           | AIRBAG  | AIRCON   | AHS                   | AVN  | IBU-BCM                                    |  | FR_RADAR  | cu                           | DVRS                       | HUD  | MFS                        |
|                           | 0   | 0  | 0                     |  |  |  | 0   | 0                            |                            |  |                            |
|                           | IBU-SMK   | IBU-TPMS   | ICU                   | 0  |  |  | SCM   | ICU                          |                            |  |                            |
| C-CAN                     | ABSESP  | EPS  | ECS                   | ADAS_PRK   | FR_CMR                                     |  |   |                              |                            |  |                            |
|                           |   | CLU  | DVRS                  | HUD  | MFSW                                       |  |   |                              |                            |  |                            |
|                           |   | 0  |                       |  |  |  |   |                              |                            |  |                            |
|                           | Stop  |  | Erase                 | all DTC  |  |  | Stop  |                              | Erase                      | e all DTC                                  | Ê.                         |
|                           |   |  |                       |  |  |  |   |                              |                            |  |                            |
| -                         |   |  | _                     |  |  |  |   |                              |                            |  | -                          |
|                           |   | <al< td=""><td>L&gt;</td><td></td><td></td><td></td><td></td><td>(C-C)</td><td>AU&gt;</td><td></td><td></td></al<> | L>                    |  |  |  |   | (C-C)                        | AU>                        |  |                            |
| · @ [                     | 5   | <al<br>mart Diag</al<br>   |                       | Ē  | ÷ #  | ∩ ®                                    |   | C-C                          |                            | Ē  | æ                          |
| E E                       | Unidentified<br>Mapping Status  |  | gnosis                | 0  |  | finit 💇                                |   |                              | gnosis                     | 0  | <u>ا</u>                   |
| <b></b>                   | Unidentified  | mart Diag<br><mark>16</mark>   | gnosis                | 0  | 5<br>1<br>1<br>1                           | # <u>=</u>                             | C+  | 5mart Dia<br><mark>16</mark> | gnosis                     | 0  | F(                         |
| stem Status               | Unidentified<br>Mapping Status<br>(5/47)  | mart Diag<br>16<br>DTCs  | gnosis<br>EC          | O<br>U Upgrade 3<br>Power Train  | Vehicle information                        | ्रम्म<br>System Status<br>System Statu | Co<br>Unidentified<br>Mapping Status<br>as (8/47)           | Smart Dia<br>16<br>DTOs      | gnosis<br>E                | O<br>CU Upprade N<br>Power Train           | ि<br>envicie into<br>essis |
| stem Status               | Unidentified<br>Mapping Status<br>(5/47)  | mart Diag<br><mark>16</mark>   | gnosis                | 0<br>U Upgrade 1   |  |  | Co<br>Unidentified<br>Mapping Status<br>as (8/47)           | 5mart Dia<br><mark>16</mark> | gnosis                     | O<br>CU Upgrade N                          | F(<br>encle int            |
| stem Status<br>(ALL       | Unidentified<br>Mapping Status<br>(5/47)<br>P-CAN C                                       | mart Diag<br>16<br>pros  | gnosis<br>cc<br>B-CAN | 0<br>U Upprede 1<br>Power Train<br>M-CAN                                     | Chassis Body<br>E-CAN                      | system Status<br>ALL                   | Unidentified<br>Mapping Status<br>as (8/47)<br>P-CAN        | Smart Dia<br>16<br>pros      | gnosis<br>c<br>B-CAN       | O<br>CU Upprade X<br>Power Train<br>M-CAN  | ि<br>envicie into<br>essis |
| stem Status<br>(ALL       | Unidentified<br>Mapping Status<br>(5/47)<br>P-CAN C                                       | mart Diag<br>16<br>DTCs  | gnosis<br>EC          | O<br>U Upgrade 1<br>Power Train<br>M-CAN                                     | Vehicle information                        | system Status<br>ALL                   | Co<br>Unidentified<br>Mapping Status<br>as (8/47)           | Smart Dia<br>16<br>DTOs      | gnosis<br>E                | 0<br>CUUpprise X<br>Power Train<br>M-CAN   | ि<br>envicie into<br>essis |
| sten Status<br>ALL<br>ICU | Unidentified<br>Mapping Status<br>(5/47)<br>P-CAN C<br>P-SB                               | mart Diag<br>16<br>pros  | gnosis<br>cc<br>B-CAN | 0<br>U Upprede 1<br>Power Train<br>M-CAN                                     | Chassis Body<br>E-CAN                      | System State<br>ALL<br>ICU             | Co<br>Unidentified<br>Mupping Status<br>Its (8/47)<br>PCCAN | Smart Dia<br>16<br>pros      | gnosis<br>c<br>B-CAN       | 0<br>CUU Upgesoe N<br>Power Train<br>M-CAN | ि<br>envicie into<br>essis |
| sten Status<br>ALL<br>ICU | Unidentified<br>Mapping Status<br>(5/47)<br>PCAN C<br>UNES<br>(C)                         | CON  | B-CAN                 | O<br>U Upprote<br>Power Train<br>M-CAN<br>APSS<br>OPSS                       | Chastic Body<br>E-CAN                      | System State<br>ALL<br>ICU             | Co<br>Unidentified<br>Mapping Status<br>Ins (8/47)          | Smart Diag                   | gnosis<br>B-CAN<br>C.RADAR | 0<br>CU Uppride X<br>Power Train<br>M-CAN  | ि<br>envicie into<br>essis |
| sten Status<br>ALL<br>ICU | Unidentified<br>Magery Status<br>(5/47)<br>PCAN C   | mart Diag<br>16<br>orcs<br>-can  | B-CAN                 | OUUpgrade 1  | Chassis Body<br>E-CAN                      | System State<br>ALL<br>ICU             | Co<br>Unidentified<br>Mapping Status<br>Ins (8/47)          | Smart Diag                   | gnosis<br>B-CAN<br>C.RADAR | 0<br>CU Uppride X<br>Power Train<br>M-CAN  | ि<br>envicie into<br>essis |
| sten Status<br>ALL<br>ICU | Unidentified<br>Mapping Status<br>(5/47)<br>PCAN C<br>DVHS<br>BU-BCM                      | CON  | B-CAN                 | O<br>U Uppride 1<br>Power Train<br>M-CAN<br>M-CAN<br>M-CAN<br>M-CAN<br>M-CAN | Chastic Body<br>E-CAN                      | System State<br>ALL<br>ICU             | Co<br>Unidentified<br>Mapping Status<br>Ins (8/47)          | Smart Diag                   | gnosis<br>B-CAN<br>C.RADAR | 0<br>CU Uppride X<br>Power Train<br>M-CAN  | ि<br>envicie into<br>essis |
| sten Status<br>ALL<br>ICU | Unidentified<br>Mapping Status<br>5/47)<br>PCAN C<br>DVRS<br>UVRS<br>UVRS<br>UVRS<br>UVRS | CAN  | B-CAN                 | 0<br>U U pyrsde<br>Power Train<br>M-CAN<br>M-CAN                             | Chasis Body<br>E-CAN<br>APSU<br>LAU<br>PSM | System State<br>ALL<br>ICU             | Co<br>Unidentified<br>Mapping Status<br>Ins (8/47)          | Smart Diag                   | gnosis<br>B-CAN<br>C.RADAR | 0<br>CU Uppride X<br>Power Train<br>M-CAN  | ि<br>envicie into<br>essis |
| sten Status<br>ALL<br>ICU | Unidentified<br>Mapping Status<br>5/47)<br>PCAN C<br>DVRS<br>BU-BCM<br>C                  | CAN  | B-CAN                 | 0<br>U U pyrsde<br>Power Train<br>M-CAN<br>M-CAN                             | Chasis Body<br>E-CAN<br>APSU<br>LAU<br>PSM | System State<br>ALL<br>ICU             | Co<br>Unidentified<br>Mapping Status<br>Ins (8/47)          | Smart Diag                   | gnosis<br>B-CAN<br>C.RADAR | 0<br>CU Uppride X<br>Power Train<br>M-CAN  | ि<br>envicie into<br>essis |

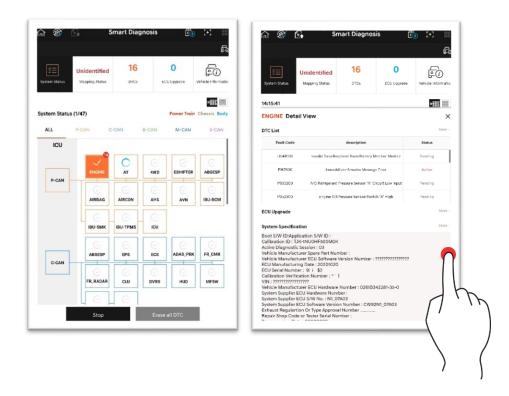


<M-CAN>

A detailed screen appears when you select the system.

It provides information on fault codes, ECU upgrade list and system specification.

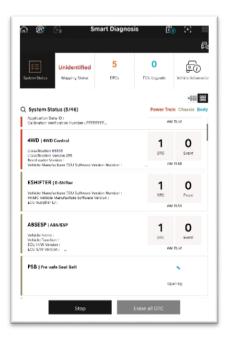
If you touch 'More +', it provides a link to a relevant function.



#### List Type

It shows diagnosis communication process and results as list card format.

It shows information on fault codes, ECU upgrade list and system specification. If you touch DTC and ECU, it provides links to relevant functions.



#### Re-search/Delete the Entire Fault Codes

It provides function of re-search on the selected system, as well as fault code delete function for the fault codes that are found.

