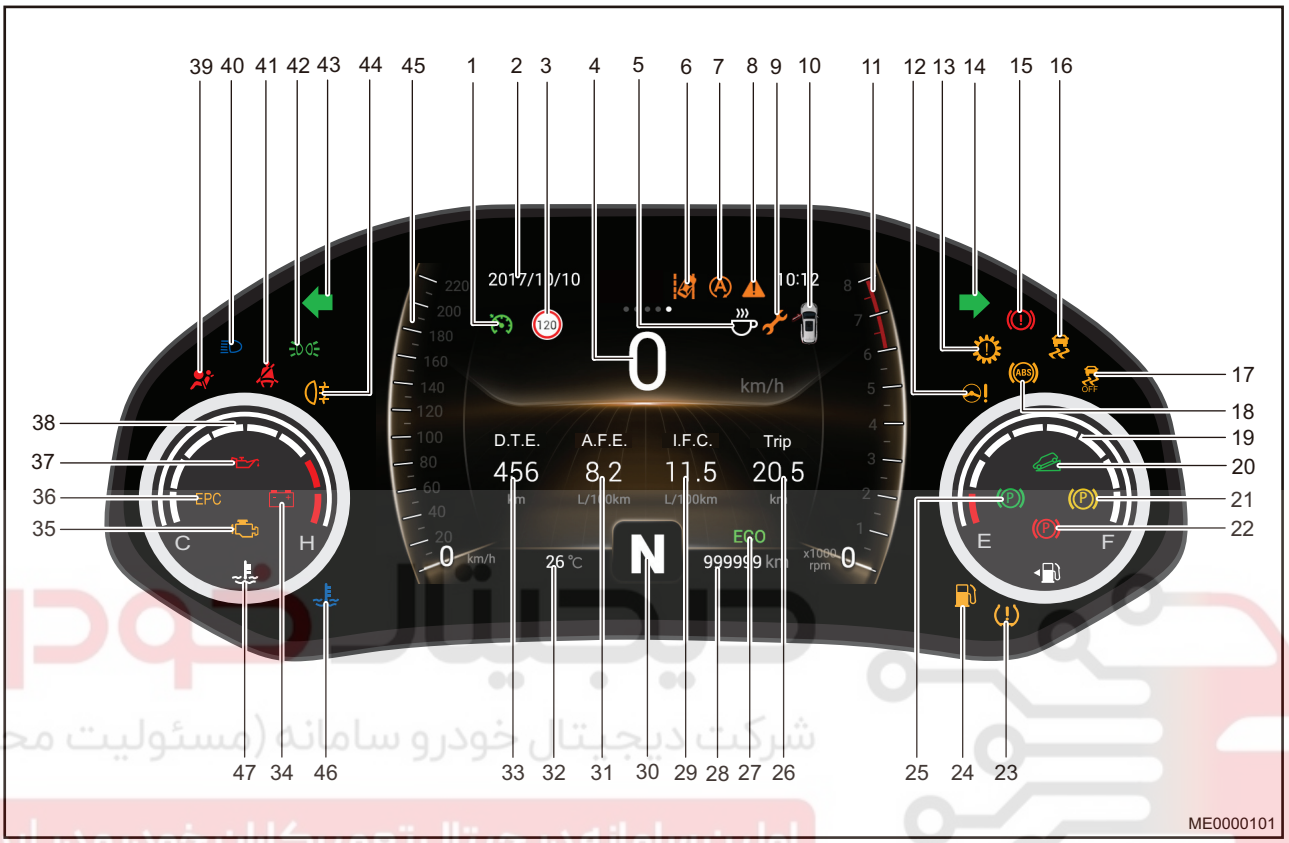
INSTRUMENT CLUSTER CONTROL SYSTEM

GENERAL INFORMATION

Overview

Description



1 - Constant Speed Cruise Indicator	2 - Date Display
3 - Overspeed Warning	4 - Vehicle Speed
5 - Fatigue Driving	6 - Lane Departure
7 - Start and Stop System Indicator	8 - Graphic Warning Message
9 - Maintenance Indication	10 - Door Open Indication
11 - Engine Tachometer	12 - Electric Steering System Malfunction Indicator
13 -Transmission Malfunction Warning Indicator	14 - Right Turn Signal Indicator
15 - Brake System Malfunction Indicator	16 - ESP Malfunction Indicator
17 - ESP OFF Indicator	18 - ABS Malfunction Indicator
19 - Fuel Level Indicator	20 - Hill Descent Control Indicator
21 - EPB Malfunction Indicator	22 - Parking Brake Indicator
23 - Tire Pressure Malfunction Indicator	24 - Low Fuel Level Warning Indicator
25 - Automatic Parking Indicator	26 - Trip Mileage Indicator
27 - ECO Indicator	28 - Odometer
29 - Instaneous Fuel Consumption	30 - Gear Position Indicator
31 - Average Fuel Consumption	32 - Outside Temperature
33 - Driving Mileage	34 - Charging System Warning Indicator
35 - Engine Malfunction Indicator	36 - EPC Malfunction Indicator
27 - ECO Indicator	28 - Odometer
29 - Instaneous Fuel Consumption	30 - Gear Position Indicator
31 - Average Fuel Consumption	32 - Outside Temperature

33 - Driving Mileage	34 - Charging System Warning Indicator
35 - Engine Malfunction Indicator	36 - EPC Malfunction Indicator
37 - Low Engine Oil Pressure Warning Indicator	38 - Engine Coolant Temperature Indicator
39 - SRS Malfunction Indicator	40 - Headlight High Beam Indicator
41 - Driver Seat Belt Reminder Light	42 - Position Indicator
43 - Left Turn Signal Indicator	44 - Rear Fog Indicator
45 - Speedometer Indicator	46 - Warm-up Indicator
47 - Coolant Temperature Indicator	

This vehicle is equipped with virtual pointer type instrument cluster. The instrument cluster is a highly integrated electronic instrument display system and mainly consists of engine coolant temperature gauge, tachometer, fuel gauge, speedometer, multi-information display and warning indication symbols. The multi-information display mainly displays vehicle information, which contains the following items: clock, trip, total mileage and instantaneous fuel consumption.

Operation

Instrument cluster is located above the upper left of instrument panel assembly, which is used to monitor and display the operation status of each system and component in vehicle. Instrument cluster receives signals from each sensor and switch, and displays the operation status of each system through meters, multi-information display, indicators and warning lights. It also reminds and informs driver by flashing lights and sounding buzzer. As a result, it will be helpful for driver to eliminate possible troubles in time, thus avoiding malfunctions or accidents efficiently.

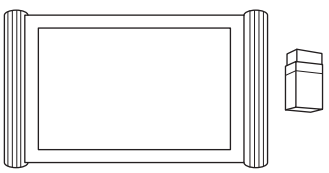
Specifications

Torque Specifications

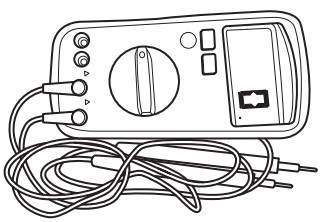
Description	Torque (N·m)
Instrument Cluster Fixing Screw	1.5 ± 0.5

Tools

Special Tool

Diagnostic Tester	 001

General Tool

Digital Multimeter	 002

DIAGNOSIS & TESTING

Diagnostic Content

Problem Symptoms Table

Hint:

Use symptoms table below to help determine cause of problem. Check each suspected area in sequence. Repair or adjust faulty components, or replace as necessary.

Symptom	Suspected Area
Entire instrument cluster does not operate	Fuse
	Instrument cluster
	Wire harness or connector
Vehicle speed displays abnormally	Wheel speed sensor
	Wire harness or connector
	Instrument cluster
Tachometer is abnormal	Engine speed sensor
	Instrument cluster
	Wire harness or connector
	Engine Control Module (ECM)
Fuel gauge is abnormal	Fuel level sensor
	Instrument cluster
	Wire harness or connector
Position indicator is abnormal	Position light switch (combination light switch assembly)
	Wire harness or connector
	Instrument cluster
	Body Control Module (BCM)
Turn signal indicator is abnormal	Turn signal light switch (combination light switch assembly)
	Body Control Module (BCM)
	Instrument cluster
	Wire harness or connector
High beam indicator is abnormal	High beam switch (combination light switch assembly)
	Body Control Module (BCM)
	Instrument cluster
	Wire harness or connector
Rear fog indicator is abnormal	Rear fog light switch (combination light switch assembly)
	Body Control Module (BCM)
	Instrument cluster
	Wire harness or connector
Charging system warning light is abnormal	Alternator
	Instrument cluster
	Wire harness or connector
Low engine oil pressure warning light is abnormal	Engine oil level
	Engine oil pressure switch
	Wire harness or connector
	Instrument cluster
ABS warning light is abnormal	ABS control unit assembly
	CAN line or connector
	Instrument cluster

Symptom	Suspected Area
Low fuel level warning light is abnormal	Fuel amount in tank
	Fuel level sensor
	Wire harness or connector
	Instrument cluster
Coolant temperature warning light is abnormal	Coolant level
	Extremely high engine coolant temperature
	Coolant Temperature Sensor
	Wire harness or connector
	Instrument cluster
	Body Control Module (BCM)
Engine malfunction warning light is abnormal	CAN line or connector
	Engine Control Module (ECM)
	Instrument cluster
SRS warning light is abnormal	CAN line or connector
	Airbag control module (SRS)
	Instrument cluster
Driver seat belt reminder light is abnormal	Driver seat belt buckle switch
	Wire harness or connector
	Instrument cluster
Front passenger seat belt reminder light is abnormal (if equipped)	Front passenger seat belt buckle switch
	Wire harness or connector
	Instrument cluster
Brake system warning light is abnormal	Low brake fluid level
	Parking brake switch assembly
	Instrument cluster
Cruise indicator (if equipped) is abnormal	Cruise switch (multi-function switch)
	Wire harness or connector
	Instrument cluster
Transmission malfunction warning light is abnormal	Transmission Control Unit (TCU)
	CAN line or connector
	Instrument cluster
Low tire pressure warning light is abnormal (if equipped)	Low or high tire pressure (tire pressure is not within specified range)
	Instrument cluster

33

Diagnosis Procedure

Hint

Use following procedure to troubleshoot the instrument cluster system.

1	Vehicle brought to workshop

Result

Proceed to
Next

Next

2	Check battery voltage

Check if battery voltage is normal.

OK

Standard voltage: Not less than 12 V

Result

Proceed to
OK
NG

NG → Check and repair battery

OK → 33

3	Customer problem analysis

Result

Proceed to
Next

Next

4	Check and clear DTCs

Result

Proceed to
Next

Next

5	Confirm and reappear problem

Result

Proceed to
No DTC
Current DTC
History DTC

History DTC

6	Problem Repair (No DTC)

Result

Proceed to
Next

Next	Go to step 8

7	Troubleshoot according to Diagnostic Trouble Code (DTC) chart

Result

Proceed to
Next

Next	Go to step 8

8	Troubleshoot according to Problem Symptoms Table

Result

Proceed to
Next

Next

9	Conduct test and confirm malfunction has been repaired

Result

Proceed to
Next

Next	End

DTC Confirmation Procedure

Confirm that battery voltage is normal before performing following procedures.

- Turn ENGINE START STOP switch to OFF.
- Connect diagnostic tester (the latest software) to diagnostic interface.
- Turn ENGINE START STOP switch to ON.
- Use the diagnostic tester to record and clear stored DTCs.
- Turn ENGINE START STOP switch to OFF and wait several seconds.
- Using the diagnostic tester, select Read DTCs.
- If DTC is detected, malfunction indicated by DTC is current. Go to diagnosis procedure - Step 1.
- If no DTC is detected, malfunction indicated by DTC is intermittent Please refer to Intermittent DTC Troubleshooting.

System Diagnostic

1. Description
   (a) Instrument cluster data and Diagnostic Trouble Code (DTC) can be read from OBD diagnostic interface of vehicle. When system seems to be malfunctioning, use diagnostic tester to check for a malfunction and perform repairs.
2. Check battery voltage
   (a) Standard Voltage:
   Not less than 12 V
   If voltage is below 12 V, check and repair battery before proceeding to next step.

DTC Check/Clear

1. Check for DTCs
   (a) Connect diagnostic tester to diagnostic interface.
   (b) Turn the ENGINE START STOP switch to ON, and turn on the diagnostic tester.
   (c) Select following menu items to read the current malfunctions: Tiggo 8 / T18 / Instrument Cluster System / Read DTC.
   (d) Read DTCs by following indications on tester screen.
2. Clear DTCs
   (a) Connect diagnostic tester to diagnostic interface.
   (b) Turn the ENGINE START STOP switch to ON, and turn on the diagnostic tester.
   (c) Select following menu items: Tiggo 8 / T18 / Instrument Cluster System / Clear DTC.
   (d) Clear DTCs by following the directions on tester screen.

Intermittent DTC Troubleshooting

If malfunction is intermittent, perform the followings:

- Check if connector is loose.
- Check if wire harness is worn, pierced, pinched or partially broken.
- Wiggle related wire harness and connector and observe if signal in related circuit is interrupted.
- If possible, try to duplicate conditions under which DTC was set.
- Look for data that has changed or DTC to reset during wiggle test.
- Check for broken, bent, protruded or corroded terminals.
- Inspect wheel speed sensors and mounting areas for damage, foreign matter, etc. that will cause incorrect signals.
- Check and clean all wire harness connectors and ground parts related to DTC.
- If multiple trouble codes were set, refer to circuit diagrams to look for any common ground circuit or power supply circuit applied to DTC.
- Refer to any Technical Bulletin that may apply to this malfunction.

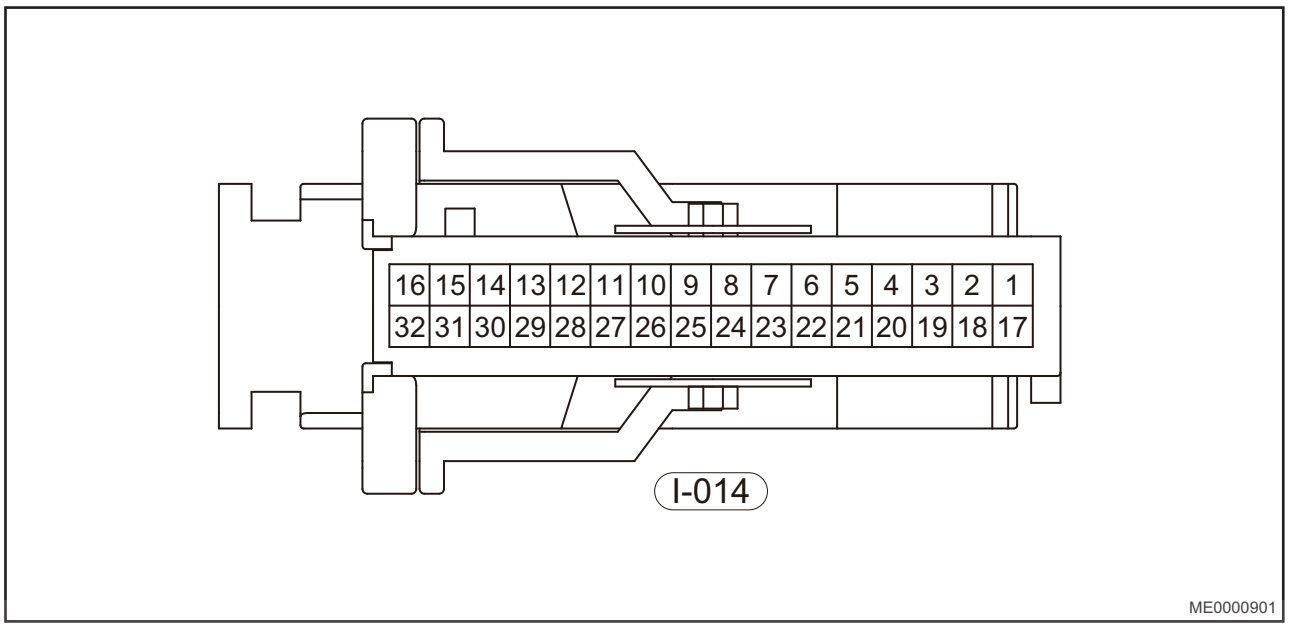
Ground Inspection

Ground points are very important to the proper operation of circuits. Ground points are often exposed to moisture, dirt and other corrosive environments. Corrosion (rust) may increase load resistance. This situation may change the way in which a circuit works. Circuits are very sensitive to proper grounding. A loose or corroded ground can affect the control circuit. Check the ground points as follows:

1. Remove ground bolt or nut.
2. Check all contact surfaces for tarnish, dirt and rust, etc.
3. Clean as necessary to ensure that contacting is in good condition.
4. Reinstall ground bolt or nut securely.
5. Check if add-on accessories interfere with ground circuit.
6. If several wire harnesses are crimped into one ground terminal, check for proper crimps. Make sure that all wire harnesses are clean and securely fastened while providing a good ground path.

Instrument Cluster Terminal List

Terminal list of instrument cluster connector I-014 on instrument panel wire harness.



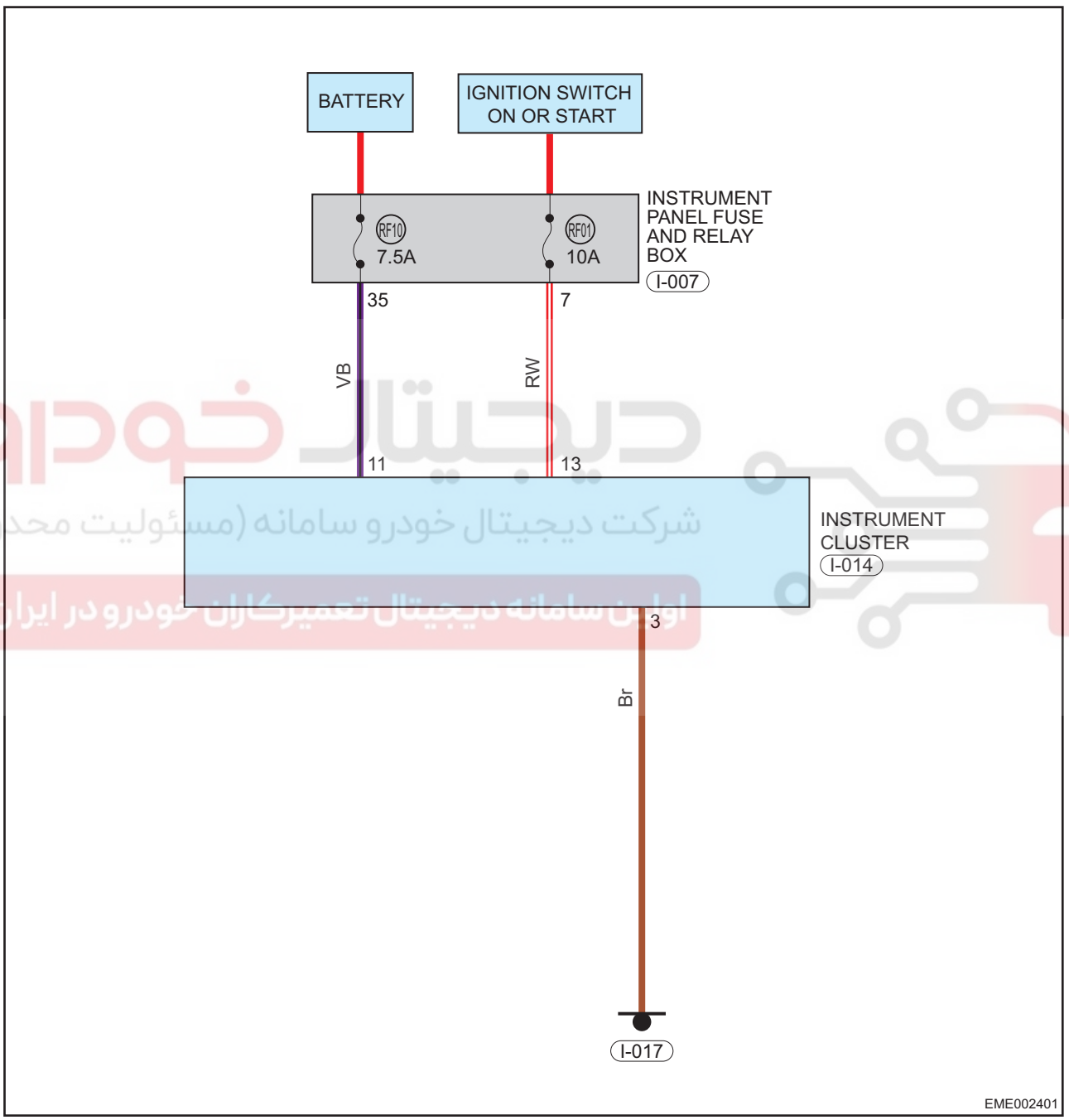
Terminal No.	Terminal Definition	Terminal No.	Terminal Definition
1	/	17	Rear Left Seat Belt Warning
2	/	18	Parking Brake Signal Input
3	Power Supply Ground	19	Driver Seat Belt Signal Input
4	ECO Switch Input	20	Rear Center Seat Belt Warning
5	Fuel Level Sensor Ground	21	Fuel Signal Input
6	/	22	Fuel Level Auxiliary Signal Input
7	Speed Output	23	Rear Right Seat Belt Warning
8	/	24	/
9	Low Oil Pressure Signal Input	25	/
10	PTC Output (Starting State)	26	Brake Fluid Level Signal Input
11	KL30	27	Speed Signal Input
12	Light Illumination Input	28	/
13	KL15	29	CAN-L
14	LDW Switch Input	30	CAN-H
15	Drive LDW Switch Operation Indicator	31	Steering Wheel Button Input (Mode/Set)
16	Battery Charging/Discharging Signal	32	/

Diagnostic Trouble Code (DTC) Chart

DTC	DTC Definition
U0100-87	Lost Communication With Engine Control System Module
U0101-87	Lost Communication With Transmission Control Unit
U0245-87	Lost Communication With Radio Receiver Module
U0129-87	Lost Communication With Brake System Module
U0131-87	Lost Communication With Electronic Power Steering Module
U0151-87	Lost Communication With Air Bag Module
U0140-87	Lost Communication With BCM
U0214-87	Lost Communication With PEPS
U0164-87	Lost Communication With Climate Module
U0141-87	Lost Communication With RADAR
U0142-87	Lost Communication With Around View Monitor Module
U1157-87	Lost Communication With Blind Spot Detection
U0230-87	Lost Communication With PLG
U1162-87	Lost Communication With FCM
U1163-87	Lost Communication With FRM
U1300-55	Software Configuration Error
B1100-13	Power Supply Fault
B1100-16	Power Supply Fault
B1100-17	Power Supply Fault
B1101-11	ICM Fuel System Fault
B1101-15	ICM Fuel System Fault
B1103-00	Airbag Warning Light Fault
B1104-41	EEPROM Checksum Error
B110A-00	Wheel Button Fault
B110C-11	ICM Fuel Master Detect Circuit Fault
B110C-13	ICM Fuel Master Detect Circuit Fault
B110D-11	ICM Fuel Assistant Detect Circuit Fault

DTC	B1100-13	Power Supply Fault
DTC	B1100-16	Power Supply Fault
DTC	B1100-17	Power Supply Fault

Circuit Diagram



DTC	DTC Definition	DTC Detection Condition	Possible Cause
B1100-13	Power Supply Fault	This malfunction occurs when any of following conditions is met: • IGN = ON, battery (KL30) voltage circuit is open for 500 ms • IGN = ON (other than 1s after starting) 6 V, ≤ battery (KL30 PIN) voltage ≤ 8 V for 1000 ms • IGN = ON, battery (KL30 PIN) voltage ＞ 17 V for 1000 ms	• Disconnection or poor connection between battery and instrument panel after engine starting • Power supply is not stable, and some loads may decrease suddenly • Power supply is not stable, and load fails suddenly • Instrument cluster wire harness and connector fault • Instrument cluster fault
B1100-16	Power Supply Fault		
B1100-17	Power Supply Fault		

Caution:
When performing electrical equipment diagnosis and test, always refer to circuit diagram for related circuit and component information.

Procedure

1	Confirm DTCs

(a) Turn ENGINE START STOP switch to OFF.
(b) Disconnect the instrument panel wire harness connector I-014.
(c) Check if wire harnesses are worn, pierced, pinched or partially broken.
(d) Check for broken, bent, protruded or corroded terminals.
(e) Check if related connector pins are in good condition.

Result

Proceed to
Yes
No

No → **Repair or replace wire harness and connector**

Yes

2	Check instrument panel power supply voltage

(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Disconnect the instrument panel wire harness connector I-014.
(c) Connect negative battery cable, and turn ENGINE START STOP switch to ON.

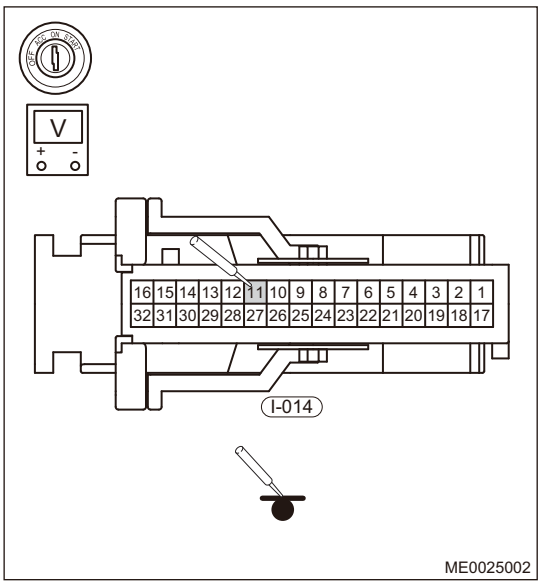
(d) Using a digital multimeter, check for voltage between the terminals of connector I-014 to check if there is an open in instrument panel power supply circuit according to the table below.

OK

Multimeter Connection	Specified Voltage
I-014 (11) - Ground	Not less than 12 V

Result

Proceed to
OK
NG



NG → **Check if instrument panel fuse RF10 10 A is burnt**

OK

3 Using a 21 W test lamp, test power supply voltage

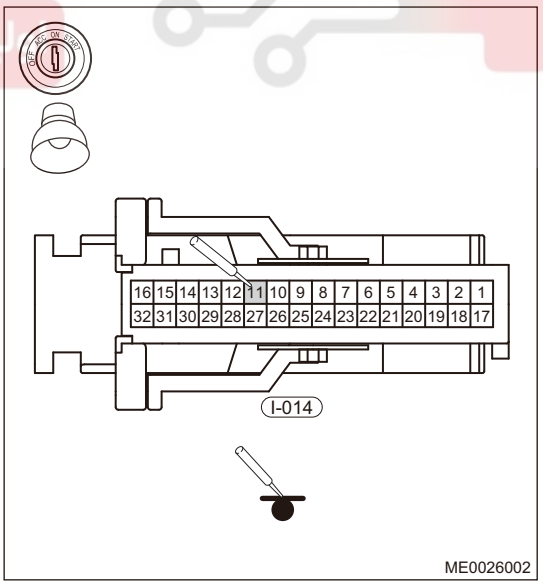
(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Disconnect the instrument panel wire harness connector I-014.
(c) Connect negative battery cable, and turn ENGINE START STOP switch to ON.
(d) Using a 21 W test lamp, check for voltage between the terminals of connector I-014 to check if power supplying of instrument panel power supply voltage according to the table below.

Result

Multimeter Connection	Specified Condition
I-014 (11) - Ground	Test light comes on normally

Result

Proceed to
OK
NG



NG → **Check and replace wire harness or connector between instrument relay box and instrument cluster**

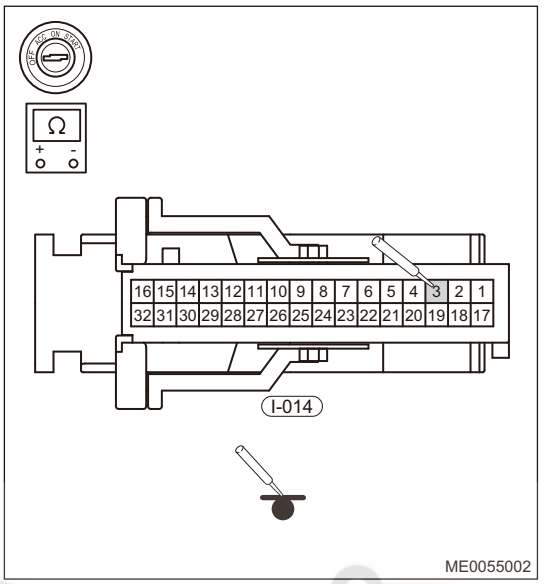
OK

4	Check instrument panel ground

(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Disconnect the instrument panel wire harness connector I-014.
(c) Measure and check if resistance between terminal 3 of connector I-014 and ground is open.

Standard Condition

Multimeter Connection	Condition	Specified Condition
I-014 (3) - Body ground	Always	≤ 1 Ω



Result

Proceed to
OK
NG

NG → **Check and repair instrument panel ground wire harness and ground point I-017.**

OK

5	Reconfirm DTCs

(a) Use diagnostic tester to clear DTCs.
(b) Start the engine.
(c) Check if the same DTCs are still output.

Result

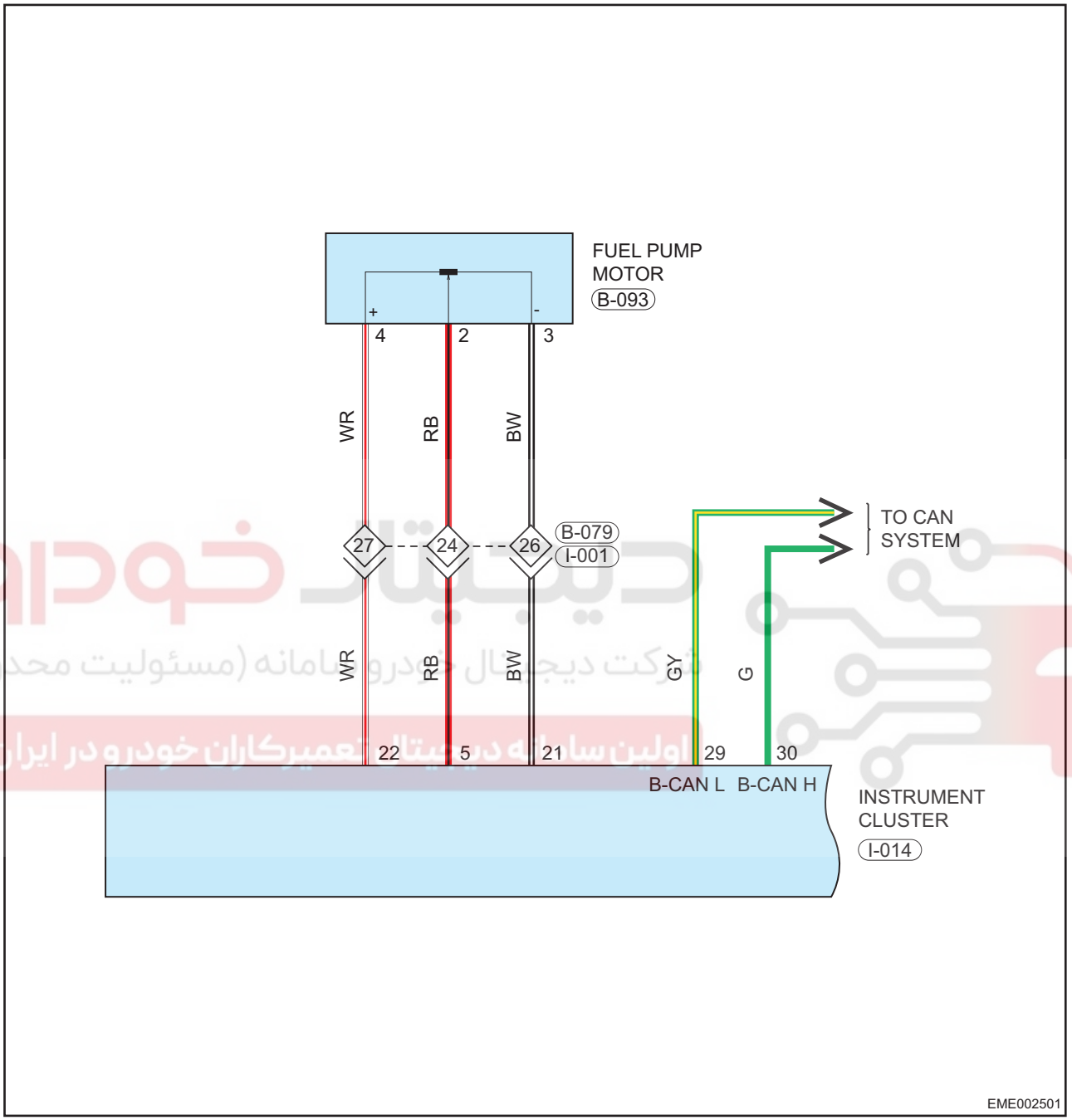
Proceed to
OK
NG

OK → **System operates normally**

NG → **Replace instrument panel assembly**

DTC	B1101-11	ICM Fuel System Fault

Circuit Diagram



DTC	DTC Definition	DTC Detection Condition	Possible Cause
B1101-15	ICM Fuel System Fault	• System input resistance ≤ 25 ohm for more than 20 s • System input resistance ≥ 400 ohm for more than 20 s	• Instrument cluster fault • Fuel pump fault • Fuel pump wire harness fault
B1101-11	ICM Fuel System Fault		

Caution:
When performing electrical equipment diagnosis and test, always refer to circuit diagram for related circuit and component information.

Procedure

1	**Confirm DTCs**

(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Disconnect fuel pump wire harness connector B-093 and instrument panel wire harness connector I-014.
(c) Check if wire harnesses are worn, pierced, pinched or partially broken.
(d) Check for broken, bent, protruded or corroded terminals.
(e) Check if related connector pins are in good condition.

Result

Proceed to
Yes
No

No → **Repair or replace wire harness and connector**

Yes

2	**Check fuel pump level sensor resistance**

(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Disconnect fuel pump wire harness connector B-093.
(c) Turn fuel float multimeter from low to high to check if resistance between terminal 2 and terminal 3 of fuel pump changes continuously.

Result

Proceed to
OK
NG

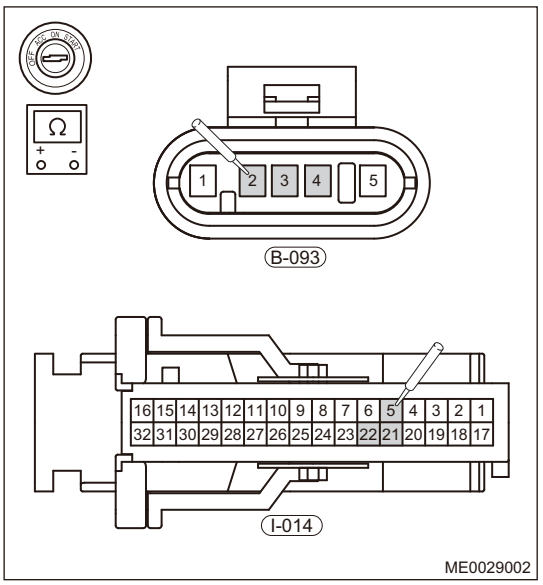
NG → **Replace fuel pump assembly**

OK

3	**Check fuel pump wire harness**

(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Disconnect fuel pump wire harness connector B-093.

(c) Using a digital multimeter, check for resistance between connector B-093 and the terminals of instrument wire harness connector I-014 to check if there is an open circuit in fuel pump wire harness according to the table below.



Result

Multimeter Connection	Standard Resistance
B-093 (2) - I-014 (5)	≤ 1 Ω
B-093 (3) - I-014 (21)	≤ 1 Ω
B-093 (4) - I-014 (22)	≤ 1 Ω

Result

Proceed to
OK
NG

NG → **Repair or replace instrument panel wire harness**

OK

4	Reconfirm DTCs

(a) Use diagnostic tester to clear DTCs.
(b) Start the engine.
(c) Check if the same DTCs are still output.

Result

Proceed to
OK
NG

OK → **System operates normally**

NG → **Replace instrument panel assembly**

DTC	B1104-41	EEPROM Checksum Error

DTC	DTC Definition	DTC Detection Condition	Possible Cause
B1104-41	EEPROM Checksum Error	• ENGINE START STOP switch ON	• Instrument panel internal fault

Caution:
When performing electrical equipment diagnosis and test, always refer to circuit diagram for related circuit and component information.

Procedure

1	Cycle dropout test

(a) Turn ENGINE START STOP switch to OFF.
(b) Disconnect the negative battery cable and wait for 3 minutes to check if it recovers.

Result

Proceed to
Yes
No

No → **Clear DTCs**

Yes

2	Reconfirm DTCs

(a) Use diagnostic tester to clear DTCs.
(b) Start the engine.
(c) Check if the same DTCs are still output.

Result

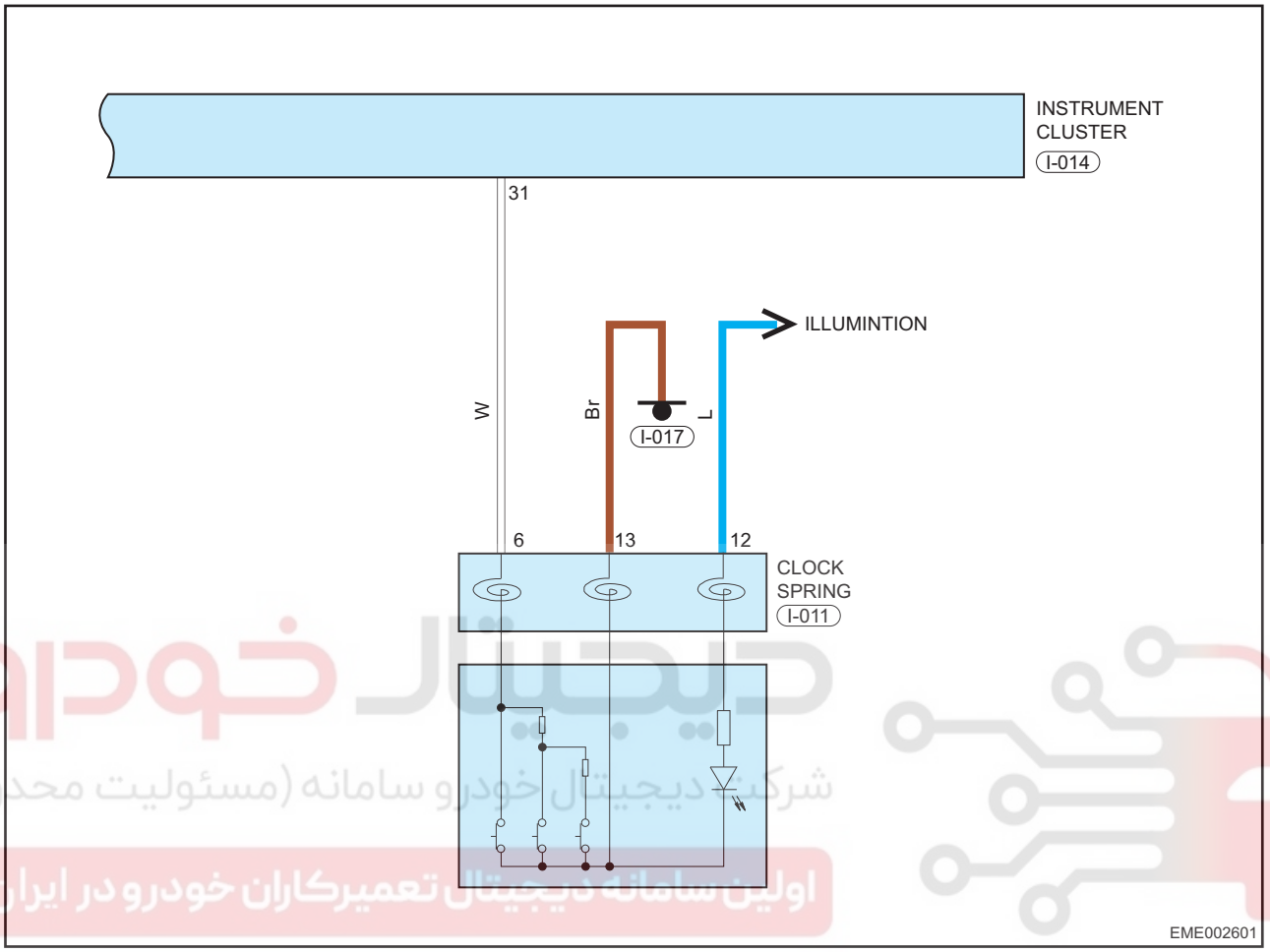
Proceed to
OK
NG

OK → **System operates normally**

NG → **Replace instrument panel assembly**

DTC	B110A-00	Wheel Button Fault

Circuit Diagram



DTC	DTC Definition	DTC Detection Condition	Possible Cause
B110A-00	Wheel Button Fault	• When pressing and holding any button for more than 60 s	• Button malfunction • Spiral cable malfunction • Ground malfunction

Caution:
When performing electrical equipment diagnosis and test, always refer to circuit diagram for related circuit and component information.

Procedure

1	Check wire harness and connector

(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Spiral cable wire harness connector I-011 and ground point I-017.
(c) Check if wire harnesses are worn, pierced, pinched, poorly connected or partially broken.
(d) Check for broken, bent, protruded or corroded terminals.
(e) Check if related connector pins are in good condition.

Result

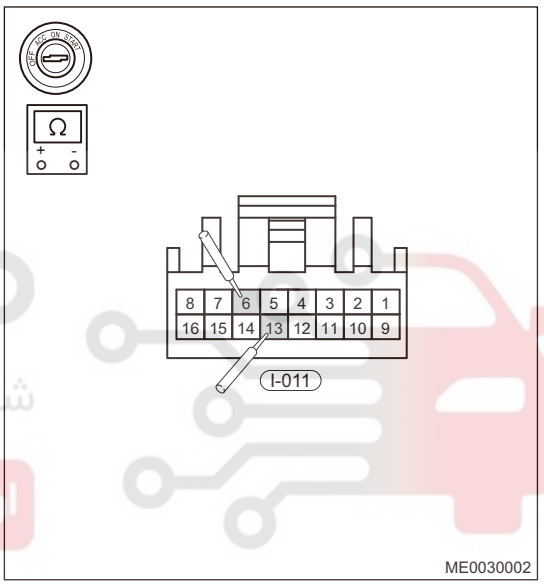
Proceed to
Yes
No

No → **Repair or replace wire harness, connector and ground**

Yes

2 Check button resistance

(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Disconnect spiral cable wire harness connector I-011.
(c) Using a digital multimeter, check for resistance between the terminals of spiral cable wire harness connector I-011 to check if steering wheel button is normal according to the table below.



OK

Button Position	Multimeter Connection	Standard Resistance (kΩ)
Press OK/SEEK button	I-011 (6) - I-011 (13)	0
Press and hold SEEK (UP) button	I-011 (6) - I-011 (13)	Approx. 0.47
Press and hold SEEK (DOWN) button	I-011 (6) - I-011 (13)	Approx. 1.29

Result

Proceed to
OK
NG

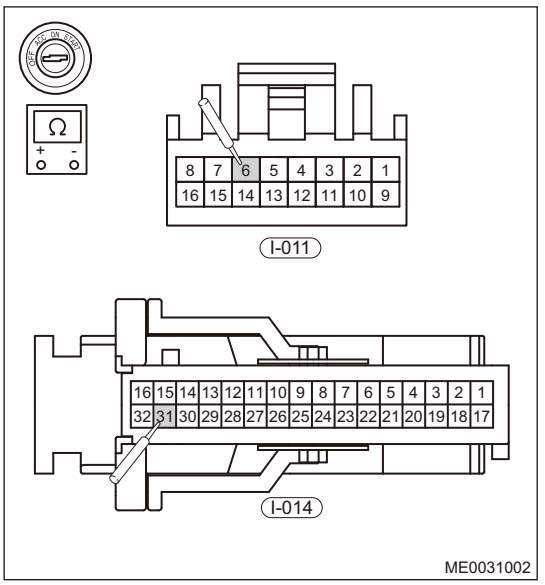
NG → **Check steering wheel button and spiral cable**

OK

3 Check instrument panel wire harness

(a) Turn ENGINE START STOP switch to OFF, disconnect the negative battery cable.
(b) Disconnect the instrument wire harness connector I-014.

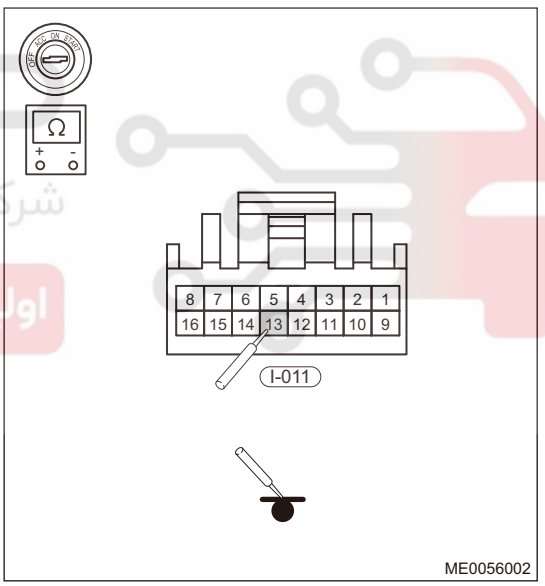
(c) Using a digital multimeter, check for resistance between instrument cluster connector I-014 and the terminals of spiral cable connector I-011 to check if wire harness is normal according to the table below.



Standard Condition

Multimeter Connection	Standard Resistance (Ω)
I-014 (6) - I-014 (31)	≤ 1 Ω

(d) Using a digital multimeter, check spiral cable connector I-011 circuit ground according to the table below.



Standard Condition

Multimeter Connection	Standard Resistance (Ω)
I-011 (13) - Body ground	≤ 1 Ω

Result

Proceed to
OK
NG

NG → **Repair or replace instrument panel wire harness**

OK

4	Reconfirm DTCs

(a) Use diagnostic tester to clear DTCs.
(b) Start the engine.
(c) Check if the same DTCs are still output.

Result

Proceed to
OK
NG

OK → **System operates normally**

NG → **Replace instrument panel assembly**

Instrument CAN Network DTCs

DTC	DTC Definition
U0100-87	Lost Communication With Engine Control System Module
U0101-87	Lost Communication With Transmission Control Unit
U0245-87	Lost Communication With Radio Receiver Module
U0129-87	Lost Communication With Brake System Module
U0131-87	Lost Communication With Electronic Power Steering Module
U0151-87	Lost Communication With Air Bag Module
U0140-87	Lost Communication With Body Control Module,Missing message
U0214-87	Lost Communication With PEPS
U0164-87	Lost Communication With Climate Module
U0141-87	Lost Communication With RADAR
U0142-87	Lost Communication With Around View Monitor Module
U1157-87	Lost Communication With Blind Spot Detection
U0230-87	Lost Communication With PLG
U1162-87	Lost Communication With FCM
U1163-87	Lost Communication With FRM
U1300-55	Software Configuration Error

Refer to Chapter 47 CAN Communication System for CAN network DTCs.

ON-VEHICLE SERVICE

Instrument Cluster

Removal

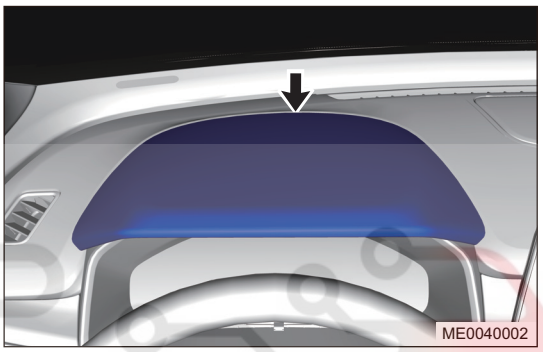
Warning/Caution/Hint

Caution:

- Be sure to wear necessary safety equipment to prevent accidents, when removing instrument cluster.
- Operate carefully to prevent components from being damaged, when removing instrument cluster.
- DO NOT scratch interior and body paint when removing instrument cluster.

1. Turn ENGINE START STOP switch to OFF.
2. Disconnect the negative battery cable.
3. Remove combination switch lower cover.
4. Remove the instrument cluster.

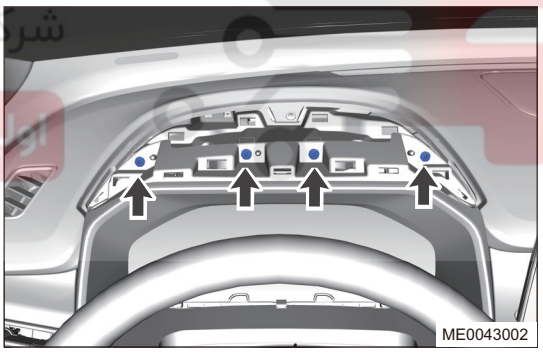
(a) Pry and remove instrument cluster front cover (arrow) with interior crow plate.



(b) Remove 4 fixing screws (arrow) from instrument cluster trim frame assembly.

Tightening torque

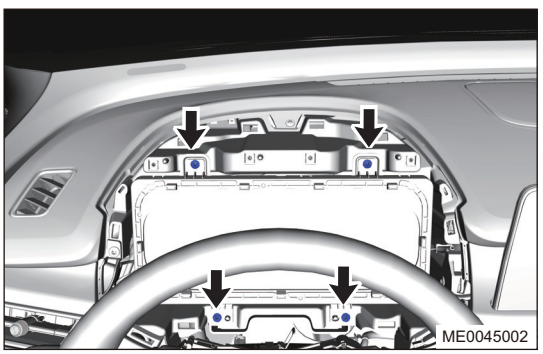
1.5 ± 0.5 N·m



(c) Remove 4 fixing screws (arrow) from instrument cluster.

Tightening torque

1.5 ± 0.5 N·m



(d) Disconnect the instrument panel wire harness connector plug.

(e) Remove instrument cluster assembly.

Installation

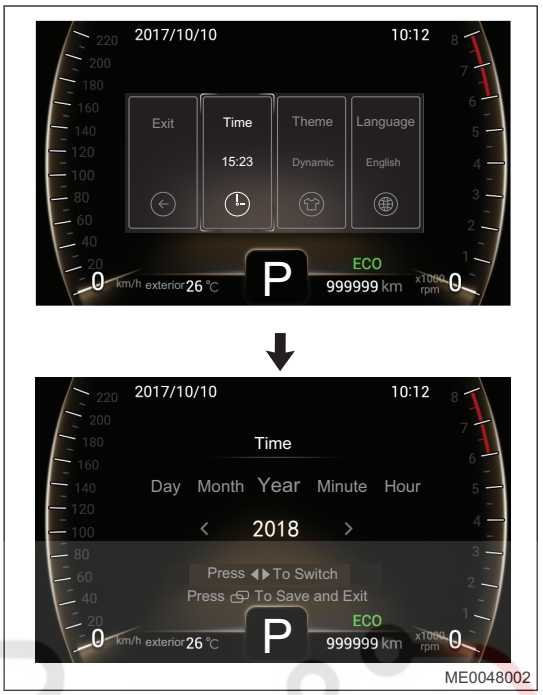
1. Installation is in the reverse order of removal

Caution:

- When installing instrument cluster, be sure to align instrument cluster positioning hole with instrument panel dowel pin, and clamp clips in place.
- When installing instrument cluster, be sure to install connectors in place.
- When installing instrument cluster, be sure to tighten fixing screws in place.
- Operate carefully to prevent other components from being damaged, when installing instrument cluster.

Meter Information Setting and Adjustment

1. Timer setting.
2. Turn ENGINE START STOP switch to ON.
   (a) Press left button "◂"/right button "▸" of steering wheel combination buttons to switch to the setting menu, shortly press the "⧉" to enter the time setting screen.

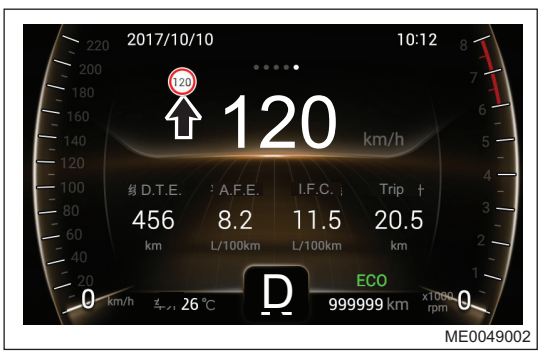


ME0048002

   (b) Press right button "▸"/left button "◂" of steering wheel combination buttons shortly to increase/decrease by 1 on initial data.
   (c) Long press right button "▸"/left button "◂" of steering wheel combination buttons to increase/decrease continuously on initial data.
   (d) After "hour" adjustment is completed, shortly press "⧉" to enter "minute" adjustment. After setting is completed, shortly press "⧉" to exit setting or it will automatically exit after 5 s if there is no operation.

   Caution:
   - Meter time can also be set by audio and entertainment system. For more details, refer to "Audio and Entertainment System".

3. Adjustable overspeed alarm setting (if equipped)
   (a) When speed reaches the set value, LCD display will display the red vehicle speed value and alarm buzzer sounds (specific set speed will be displayed in the icon). Warning icon will hide only when speed is lower than the setting value by -5 km/h. If speed reaches the set value again, it will alarm again.



ME0049002

(b) Press left button "◂"/right button "▸" of steering wheel combination buttons to switch to the setting menu, shortly press the "⧉" to enter the overspeed alarm setting.

ME0050002

(c) Press right button "▸"/left button "◂" of steering wheel combination buttons shortly to increase/decrease by 5 on initial data.

(d) After setting is complete, press "⧉" shortly to exit the setting.

Caution:

- Overspeed alarm can also be set by audio and entertainment system. More details, refer to "Audio and Entertainment System".
- The speed limit is changed by 5km/h.
- The speed limit can be set circularly between 30km/h to 130 km/h and OFF.

4. Non-adjustable overspeed alarm

(a) When speed reaches 120 km/h, LCD display will display the red vehicle speed value and alarm buzzer sounds (specific set will be displayed in the icon).

(b) Warning icon will hide only when speed is lower than 115 km/h. If speed reaches 120 km/h, it will alarm again.

5. Fatigue driving setting

(a) When driving time exceeds the set time, "Driving time exceeds--h, take a rest" will be displayed on LCD display screen + sound alarm (1 s) + fatigue driving icon displays to inform the driver to rest.

(b) Fatigue driving can be set by operating steering wheel combination buttons:

ME0051002

(c) Select fatigue driving option and shortly press "⧉" to enter the setting.
(d) Press right button "▸"/left button "◂" of steering wheel combination buttons shortly to increase/decrease by 0.5 h on initial data.
(e) After setting is complete, press "⧉" shortly to exit the setting.

Caution:

- The fatigue driving time value can be set circularly between 1 h to 4 h and OFF. Fatigue driving reminder opening time is 1 h on the system by default.

6. Language setting

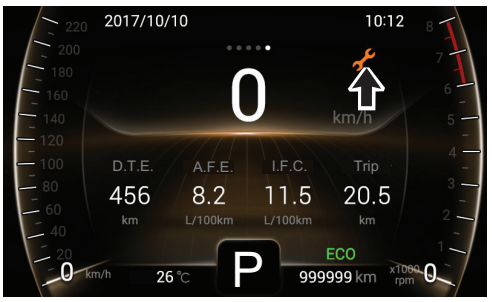
(a) Language can be set by operating steering wheel combination buttons:

ME0053002

(b) Select language option and shortly press "⧉" to enter the setting.
(c) Press left button "◂"/right button "▸" of steering wheel combination buttons shortly to switch languages between Chinese and English.
(d) After setting is complete, press "⧉" shortly to exit the setting.

7. Maintenance reminder

(a) It prompts vehicle need to be maintained.



ME0054002

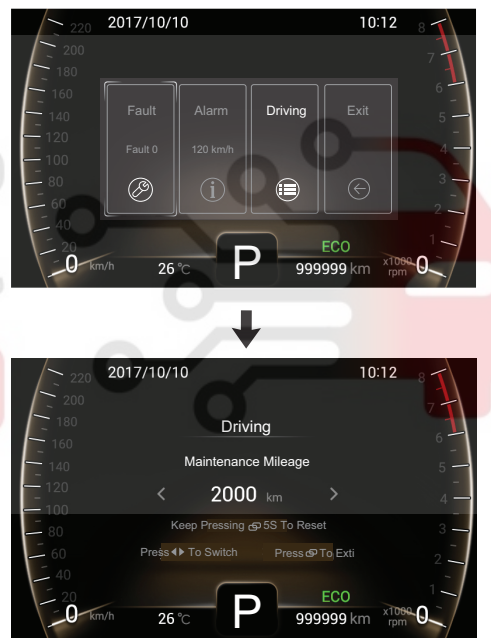
(b) When maintenance is not reset, it compares maintenance mileage with the first maintenance mileage. When it reaches the first maintenance mileage, "Maintenance" will be displayed on LCD display.

(c) After resetting the maintenance, it compares maintenance mileage with maintenance intervals. When it reaches maintenance interval, "Maintenance" will be displayed on LCD display.

33

8. Methods for resetting the maintenance reminder:

(a) In ON mode, enter the setting screen, select the driving information screen, enter the maintenance mileage option, long press "Confirmation Button" to clear maintenance mileage count.

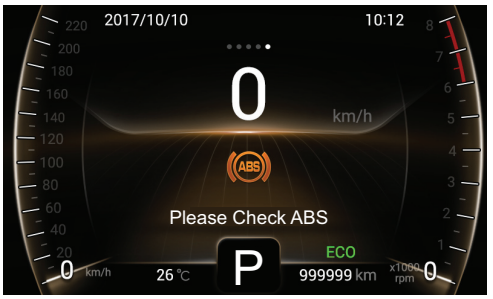


ME0057002

(b) Maintenance mileage value: it indicates the distance from next maintenance.
Caution:
- The maintenance mileage must be reset after each maintenance, and the maintenance mileage will not be lost due to power failure.
- After maintenance mileage is cleared, display 5000 of value. The value will be decreased as driving mileage increases. Normally adjust the view it by adjustment button. When the value is close to zero, the vehicle should be maintained timely.

9. Fault inquiry

(a) If there are fault and abnormal information in the system detected by vehicle on-board computer, after engine start stop switch is turned on, LCD display immediately displays the alarm information one by one and records it on the fault inquiry screen. During daily driving, you can perform the fault information inquiry on fault inquiry screen.



ME0058002

(b) On the inquiry setting screen, press left button "◂"/right button "▸" of steering wheel combination buttons to switch to the setting menu, shortly press the "⧉" to enter the fault inquiry screen.

(c) If there are multiple abnormal informations in the system, the informations will be displayed in the central area of LCD display, operate left button "◂"/ right button "▸" to view different abnormal information.

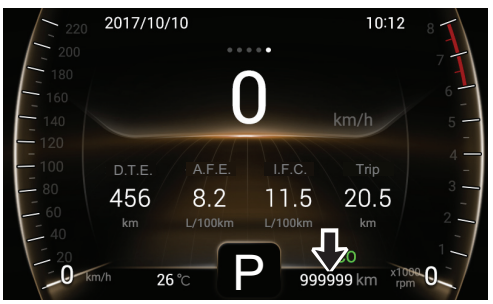
Caution:

- If the vehicle appears an abnormal alarm prompt, please check the vehicle according to the prompt information.

ME0059002

10. Total mileage

(a) Display total mileage of the vehicle. The displayed range of the total mileage is 0 - 999999 km. It will always display "999999" km if beyond the range.



ME0060002

11. Driving mileage

(a) Display estimated maximum distance that can be driven with current remaining fuel.

ME0061002

(b) This distance is calculated based on the average fuel consumption. Driving mileage is calculated by the on-board computer, it can only be used as a reference.

(c) Therefore, actual driving mileage may differ from displayed distance. If only a small amount of fuel is added to the fuel tank, the display may not be updated.

12. Average fuel consumption

(a) Display average fuel consumption of the vehicle. Display average fuel consumption after engine starts. Before that, it displays current value. Displayed data is updated approximately every 10 s. Average fuel consumption is calculated by the on-board computer, it can only be used as a reference.

ME0062002

(b) On the inquiry setting screen, average fuel consumption reset can be set by operating steering wheel combination buttons:

(1) Select driving information option and shortly press "⧉" to enter the setting.

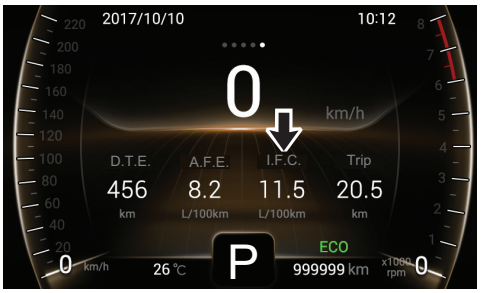
(2) Shortly press right button "▸"/left button "◂" of steering wheel combination buttons to enter the average fuel consumption reset screen.

(3) On the average fuel consumption reset screen, long press "⧉" to reset.

ME0063002

13. Instantaneous fuel consumption

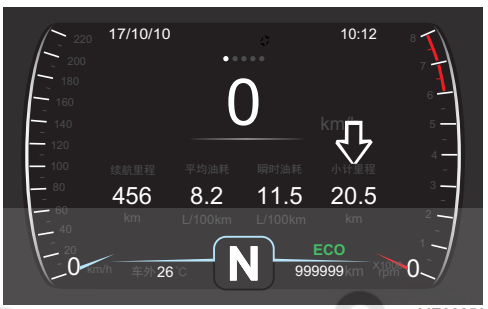
(a) Display vehicle instantaneous fuel consumption value (arrow). After cold engine is started, the instantaneous fuel consumption of engine is extremely high. After driving the vehicle for several kilometers, fuel consumption can be restored to normal level when engine reaches the normal operating temperature. Instantaneous fuel consumption is calculated by the on-board computer, it can only be used as a reference.



ME0064002

14. Trip mileage

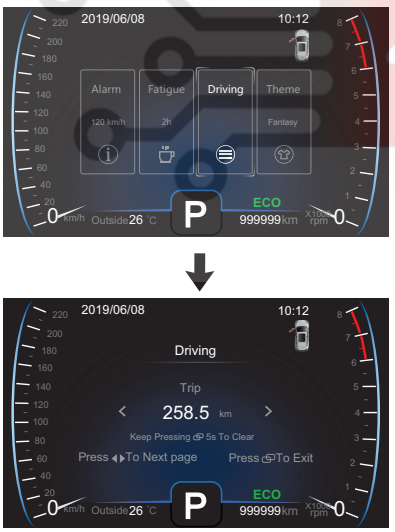
(a) Display the trip mileage of vehicle (arrow). Trip mileage display range: 0.0 ~ 9999.9 km. When it exceeds 9999.9 km, it will reset and recalculated.



ME0065002

(b) It can be used to calculate distance between two locations after trip mileage is reset. On the inquiry setting screen, trip mileage reset can be set by operating steering wheel combination buttons:

(1) Select driving information option and shortly press "⧉" to enter the setting.
(2) Shortly press right button "▸"/left button "◂" of steering wheel combination buttons to enter the trip mileage reset screen.
(3) On the trip mileage reset screen, long press "⧉" to reset.



ME0066002