Caution

• Vehicle specifications differ depending on the vehicle identification number (VIN).

- Type A VIN:
JM0 KE****** 100001—
JM6 KE****** 100001—
JM7 KE****** 100001—
JM8 KE****** 100001—
JMZ KE****** 100001—
KE10** 100001—
- Type B VIN:
JM0 KE****** 200001—
JM6 KE****** 200001—
JM8 KE******* 200001—

JMZ KE***** 200001— KE10** 200001—

DTC P0461:00	Fuel gauge sender unit circuit range/performance problem
DETECTION CONDITION	 The PCM monitors the fuel tank level difference before and after the PCM-calculated fuel consumption has reached more than 25 L {26 US qt, 22 Imp qt}. If the difference is less than 5 %, the PCM determines that there is a fuel gauge sender unit circuit range/performance problem. Diagnostic support note This is a continuous monitor (CCM). The check engine light illuminates if the PCM detects the above malfunction condition in two consecutive drive cycles or in one drive cycle while the DTC for the same malfunction has been stored in the PCM. (Type A VIN) PENDING CODE is available if the PCM detects the above malfunction condition during the first drive cycle. (Type A VIN) The check engine light does not illuminate. (Type B VIN) FREEZE FRAME DATA (Mode 2) is not available. (Type B VIN) FREEZE FRAME DATA (Mode 2) is available. (Type A VIN) Snapshot data is available. DTC is stored in the PCM memory.
FAIL-SAFE FUNCTION	Not applicable
POSSIBLE CAUSE	Fuel gauge sender unit malfunction Instrument cluster malfunction PCM malfunction
SYSTEM WIRING DIAGRAM	Not applicable

Diagnostic Procedure

Diagnostic Frocedure						
STEP	INSPECTION		ACTION			
1	VERIFY FREEZE FRAME DATA (MODE 2)/	Yes	Go to the next step.			
	SNAPSHOT DATA HAS BEEN RECORDED	No	Record the FREEZE FRAME DATA (Mode 2)/snapshot data			
	Has the FREEZE FRAME DATA (Mode 2)/		on the repair order, then go to the next step.			
	snapshot data been recorded?					
2	VERIFY RELATED SERVICE INFORMATION	Yes	Perform repair or diagnosis according to the available			
	AVAILABILITY		Service Information.			
	Verify related Service Information availability.		If the vehicle is not repaired, go to the next step.			
	Is any related Service Information available?	No	Go to the next step.			
3	INSPECT FUEL GAUGE SENDER UNIT	Yes	Replace the fuel gauge sender unit, then go to Step 5.			
	Switch the ignition off.		(See FUEL GAUGE SENDER UNIT REMOVAL/			
	Inspect the fuel gauge sender unit.		INSTALLATION [2WD].)			
	(See FUEL GAUGE SENDER UNIT		(See FUEL GAUGE SENDER UNIT REMOVAL/			
	INSPECTION [2WD].)		INSTALLATION [4WD].)			
	(See FUEL GAUGE SENDER UNIT	No	Go to the next step.			
	INSPECTION [4WD].)					
	Is there any malfunction?					

STEP	INSPECTION		ACTION
4	INSPECT INSTRUMENT CLUSTER	Yes	, ,
	• Inspect the instrument cluster.		(See INSTRUMENT CLUSTER REMOVAL/
	(See INSTRUMENT CLUSTER INSPECTION.)	Nia	INSTALLATION.)
5	Is there any malfunction? VERIFY DTC TROUBLESHOOTING	No	Go to the next step.
) 5	COMPLETED	Yes	Repeat the inspection from Step 1. • If the malfunction recurs, replace the PCM.
	Always reconnect all disconnected connectors.		(See PCM REMOVAL/INSTALLATION [SKYACTIV-G 2.0,
	Clear the DTC from the PCM memory using the		SKYACTIV-G 2.5].)
	M-MDS.		Go to the next step.
	(See AFTER REPAIR PROCEDURE	No	Go to the next step.
	SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		•
	Start the engine and warm it up completely.		
	Caution		
	While performing this step, always operate		
	the vehicle in a safe and lawful manner.		
	When the M-MDS is used to observe		
	monitor system status while driving, be		
	sure to have another technician with you,		
	or record the data in the M-MDS using the		
	PID/DATA MONITOR AND RECORD		
	capturing function and inspect later.		
	Drive the vehicle under the snapshot data		
	condition.		
	Perform the Pending Trouble Code Access		
	Procedure.		
	(See ON-BOARD DIAGNOSTIC TEST		
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)		
6	• Is the PENDING CODE for this DTC present? VERIFY AFTER REPAIR PROCEDURE	Yes	Co to the applicable DTC inspection
6	• Perform the "AFTER REPAIR PROCEDURE".	res	Go to the applicable DTC inspection. (See DTC TABLE [SKYACTIV-G 2.0, SKYACTIV-G 2.5].)
	(See AFTER REPAIR PROCEDURE	No	DTC troubleshooting completed.
	[SKYACTIV-G 2.0, SKYACTIV-G 2.5].)	110	210 troubleshooting completed.
	• Are any DTCs present?		