File in Section: -
Bulletin No.: 18-NA-131
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Service Bulletin

INFORMATION

Subject: Diagnostic Tip for DTC U18A2 Set

Brand:	Model:	Model Year:		VIN:		Engine:	Transmission:
		from	to	from	to		
Buick	LaCrosse	2018	2018			3.6L (LGX-VIN S)	

Involved Region or Country	North America
Condition	During diagnosis, a technician may find DTC U18A2 (Lost Communication with Fuel Pump Driver Control Module) set. Technicians may also find fuse F36UA to the fuel pump module open.

Information

If a fuse is open and the B+ or ignition circuit is not shorted to ground, Perform Circuit/System Testing:

Note: Refer to Document ID: 4627991 for fuel controls wiring harness schematics.

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the K111 (Document ID: 4705223) Fuel Pump Driver Control Module and the X350 (Document ID: 4705328) in-line harness connector.
2. Test for less than 2 Ω in the fuel pump low reference circuit (1580) end to end between the corresponding terminal at the body side of connector X350 and at the K111 Fuel Pump Driver Control Module electrical connector.
   - If 2 Ω or greater, repair the open/high resistance in the circuit.
   - If less than 2 Ω, connect the harness connector at the K111 Fuel Pump Driver Control Module and proceed with procedure.
3. Ignition ON, connect a test lamp between the fuel pump control circuit (120) terminal and the fuel pump low reference circuit (1580) terminal at the body side of connector X350.
4. Verify the test lamp turns ON and/or OFF when commanding the Fuel Pump Enable On and Off with a scan tool.
   - If the test lamp stays ON, refer to Test Lamp is Always ON procedure.
   - If the test lamp stays OFF, refer to Test Lamp is Always OFF procedure.
   - If the test lamp turns ON and OFF, refer to Test Lamp Turns ON and OFF procedure.

Test Lamp is Always OFF

1. Ignition OFF, disconnect the harness connector at the K111 Fuel Pump Driver Control Module.
2. Test for infinite resistance between the fuel pump control circuit (120) and ground circuit (550).
   - If less than infinite resistance, repair the short to ground on the circuit.
   - If infinite resistance, test for less than 2 Ω in the fuel pump control circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω, test or replace the K111 Fuel Pump Driver Control Module.

Test Lamp is Always ON

1. Ignition OFF, remove the test lamp and disconnect the harness connector at the K111 Fuel Pump Driver Control Module.
2. Ignition ON.
3. Test for less than 1 V between the fuel pump control circuit (120) and ground circuit (550).
   - If 1 V or greater, repair the short to voltage on the circuit.
   - If less than 1 V, test or replace the K111 Fuel Pump Driver Control Module.

Test Lamp Turns ON and OFF

Note: It may take up to 2 minutes for all vehicle systems to power down.

1. Ignition OFF and all vehicle systems OFF, disconnect the harness connector at the K111 Fuel Pump Driver Control Module and at the A7 Fuel Pump.
2. Test for infinite resistance between the fuel pump low reference circuit (1580) and ground circuit (550).
   - If less than infinite resistance, repair the short to ground on the circuit.
   - If infinite resistance, test for less than 2 Ω in the low reference circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω, test for infinite resistance between the fuel pump control circuit and ground.

3. Test for infinite resistance between the fuel pump control circuit (120) and ground circuit (550).
   - If less than infinite resistance, repair the short to ground on the circuit.
   - If infinite resistance, test for less than 2 Ω in the fuel pump control circuit end to end.

⇒ If 2 Ω or greater, repair the open/high resistance in the circuit.

⇒ If less than 2 Ω, replace the G12 Fuel Pump.

Warranty Information

For vehicles repaired under warranty, use the appropriate labor operation for the repair performed.

Version	1
Modified	Released April 23, 2018