



Preliminary Information

PIT6198 Diagnostic Tip - SES MIL On At Startup With DTC U0100

Models

Brand:	Model:	Model Years:	VIN: from	to	Engine:	Transmissions:
Chevrolet	Silverado 1500	2019 (New Model)	All	All	All	All
Chevrolet	Silverado 1500	2020 - 2021	All	All	All	All
Chevrolet	Silverado 1500 New (RPO J21, VIN Digit 5 = W or Y)	2022	All	All	All	All
Chevrolet	Silverado 2500/3500 HD	2020 - 2022	All	All	All	All
GMC	Sierra 1500 (New Model)	2019	All	All	All	All
GMC	Sierra 1500	2020 - 2021	All	All	All	All
GMC	Sierra 1500 New (RPO J21, VIN Digit 5 = 8 or 9)	2022	All	All	All	All
GMC	Sierra 2500/3500 HD	2020 - 2022	All	All	All	All

Involved Region or Country	North America
Condition	Some customers may comment on a SES MIL at startup. When checking for DTC's modules will have set a U0100 for loss of communication with the ECM. In some cases, there may or may not be the following issues: - DTCs P0700 and/or U18D5 - Transmission shifting issues
Cause	The cause of this concern could be the ECM missing the accessory wake up input on circuit 5985, see example SI document 4938084.

Correction:

Using a voltmeter check for power on circuit 5985 at the ECM. There should be approximately 12 volts present with the BCM awake. You may notice with the ignition turned off, there is still voltage present. This is because the BCM may still be awake. This should be considered normal. If no or low voltage is found, use the appropriate wiring diagram for the vehicle you are working on and perform normal circuit diagnosis.

Tip: Circuit 5985 is a low amperage signal circuit and it may not be able to power certain test lights or bulbs. The use of a voltmeter and small bulb, example 194 bulb, is required to test the circuit. With a battery charger/maintainer connected, attach one side of a 194 bulb to circuit 5985 and the other side to a good ground (battery negative). Next, wake up the BCM (by turning the headlights on, turning the ignition on, ect.) and make sure the bulb lights. If the bulb does NOT light, inspect for high resistance/open/shorts in circuit 5985. If the bulb lights, use a voltmeter and measure the voltage across the 194 bulb, to make sure there is at least 11 volts, if not inspect for high resistance/open/shorts in circuit 5985.

NOTE: A 194 bulb draws approximately 250 ma. Attaching too much of a load to circuit 5985 will pull the voltage down below 11 volts and lead to misdiagnosis.

Known areas for high resistance/open/shorts in circuit 5985 are:

- Broken/corroded/damage circuit within the first 12 inches from the ECM connectors.
- Areas listed in bulletin [21-NA-149](#)

Warranty Information

For wiring repairs covered under warranty, please refer to latest version of bulletin [10-00-89-005](#) for warranty information on wire/connector repairs.

Version History

Version	1
Modified	07/11/2024 - Created on.