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General Information

This service bulletin applies to Western Star 47X and 49X vehicles manufactured after February 21, 2022. Due to a global supply shortage of circuit protection microchips, the CPC5 module was redesigned to eliminate the circuit protection microchip. New CPC5 modules use non-resettable, non-replaceable fuses to protect four sensor common pins located on the CPC5 module. This change began with CPC5 part number A 055 446 40 02. The latest CPC5 part number as of this writing is A 055 446 48 02, which replaces all earlier versions.

Table 1 provides a description of the impacted CPC5 module circuits and pins.

Impacted CPC5 Circuit and Pins	
CPC5 Circuit Description	CPC5 Connector/Pin
VSS Sensor Common	X3/22
Ambient Air Temperature Sensor Common	X3/35
Accelerator Pedal Position #1 Sensor Common	X3/29
Accelerator Pedal Position #2 Sensor Common	X3/43

Table 1, Impacted CPC5 Circuit and Pins

A short-circuit to battery voltage condition in wiring in any of the circuits listed in **Table 1** may result in one of these internal fuses opening. If wiring issues are not isolated and corrected prior to CPC5 replacement, repeated CPC5 failure may result before the vehicle is ultimately fixed. This must be avoided by proactively checking the circuits in question prior to replacing the CPC5 module.

CPC5 Module Harness Voltage Check

A vehicle with a suspected faulty CPC5 module (A 055 446 40 02 or A 055 446 48 02) should be checked to make sure that there are no short to power conditions on any of the four sensor common pins described in **Table 1**. A voltage check using a digital multimeter (DMM) should be performed on each pin noted in **Table 1** before replacing the CPC5 module. To do this, perform the following steps:

1. Unplug the X3 connector from the CPC5 module.
2. Connect the negative lead of a DMM to a known good ground.
3. Carefully probe pins 22, 29, 35, and 43 in the harness at the X3 connector.
 - 3.1 A voltage reading on any of the pins indicates a short to power. Locate the source of the voltage and correct the problem.
 - 3.2 If voltage is not present on any of the pins, it is safe to replace the CPC5 module.

Warranty

This is an informational bulletin only. Warranty does not apply.