



Technical Service Information

GM 9T50 SERIES TRANSMISSIONS DTC P0747 SET AT ENGINE STARTUP

COMPLAINT: Various GM vehicles (see list under “Service Information”) may set DTC P0747 “Transmission Control Solenoid 1 Stuck On” as soon as the engine is started and the transmission is in park.

CAUSE: DTC P0747 may be setting due to the Body Control Module not supplying ignition voltage to the Transmission Control Module after the engine has been turned off to allow the modules to perform power-down self-test.

If ignition voltage is not present from BCM connector X4, terminal 22, refer to figure 1, for a minimum of 15 seconds after the ignition is turned off, the modules will not complete the power-down self-test. As a result, during engine cranking, the BCM will see data from where the self-test stopped and typically will see engine RPMs during cranking, which can set DTC P0747.

CORRECTION: After the engine has been running, check if ignition voltage is present at the BCM connector X4, terminal 22, see figure 1, for a minimum of 15 seconds, also check all BCM power supplies and ground connections. If no power or ground issues are found, replace and reprogram the BCM, refer to figure 2, (2019 Equinox location shown).

SERVICE INFORMATION:

The following vehicles are covered under this bulletin:

- 2017 - 2019 Chevrolet Cruze
- 2017 - 2020 Chevrolet Malibu
- 2018 - 2020 Buick Enclave, Envision and Regal
- 2018 - 2019 Buick LaCrosse
- 2018 - 2020 Chevrolet Traverse and Terrain
- 2019 - 2020 Chevrolet Blazer
- 2019 - 2020 Cadillac XT4
- 2020 GMC Acadia
- 2020 Cadillac XT5 and Xt6

9T50 SERIES TRANSMISSIONS P0747 SET AT ENGINE STARTUP

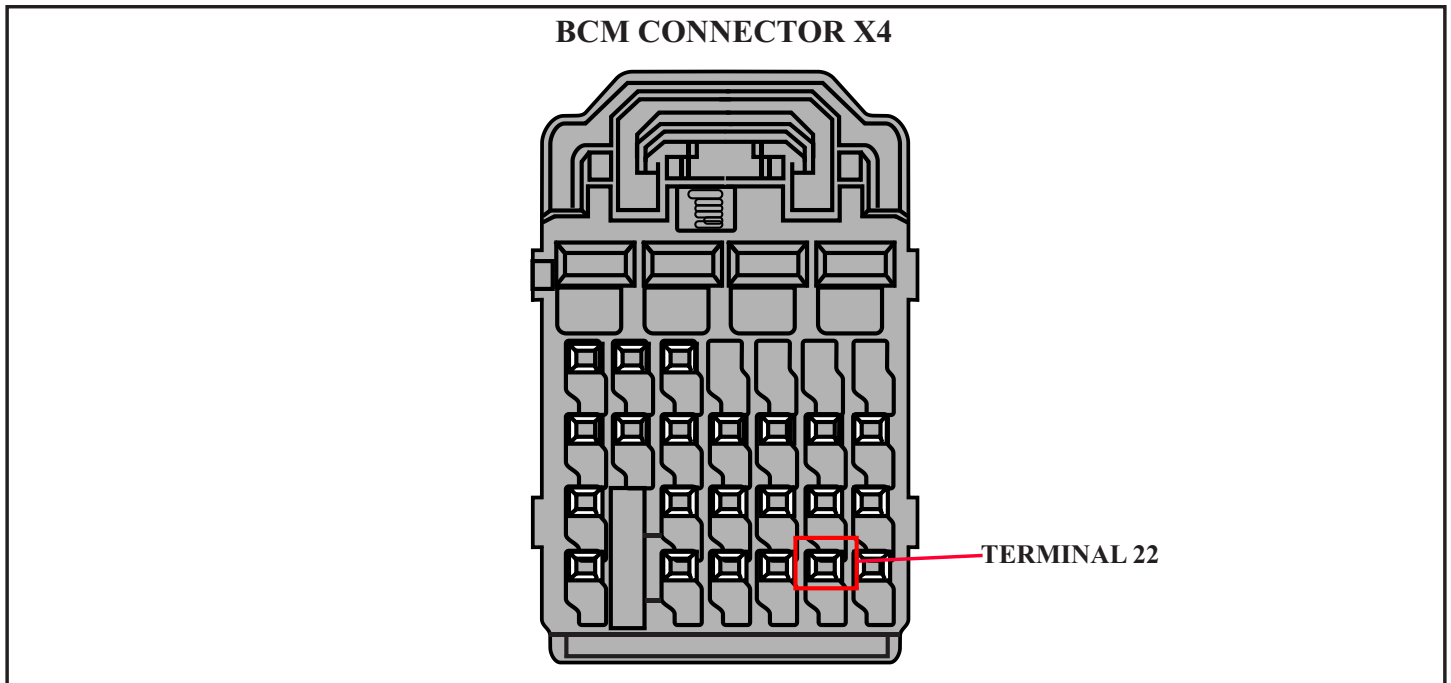


Figure 1

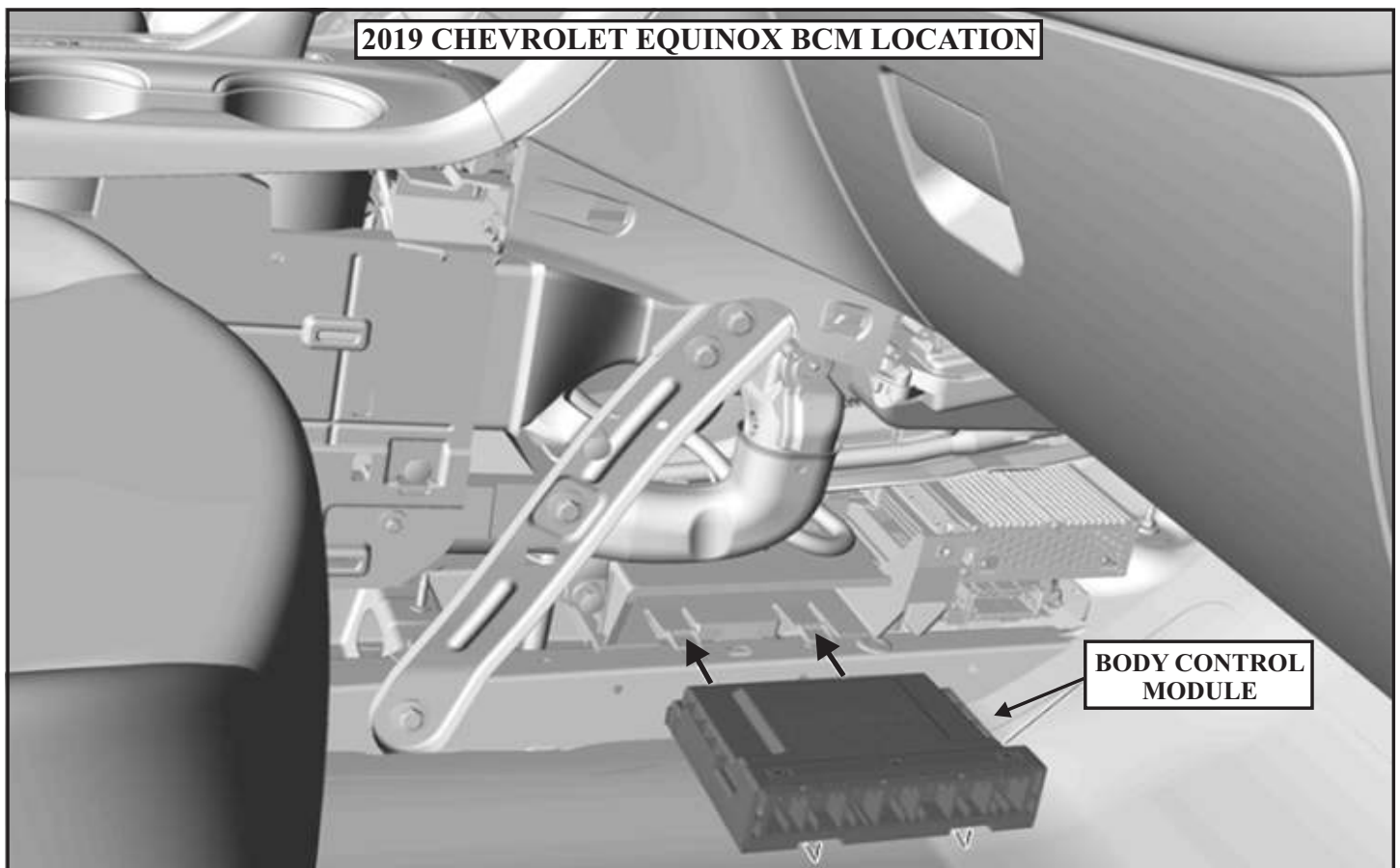


Figure 2