DTC U1817

Diagnostic Instructions

- Perform the Diagnostic System Check - Vehicle prior to using this diagnostic procedure.
- Review Strategy Based Diagnosis for an overview of the diagnostic approach.
- Diagnostic Procedure Instructions provides an overview of each diagnostic category.

DTC Descriptor

DTC U1817 00: Lost Communication with Hybrid Powertrain Control Module on Powertrain Expansion Communication Bus

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
B+	U1817	U1817	--	--
Ignition	U1817	U1817	--	--
Accessory Wake Up Serial Data 2	P06E4, U1817*	U1817*	--	--
Powertrain High-Speed GMLAN Serial Data (+)	U0074*	U0074, U1817*	U0074*	-
Powertrain High-Speed GMLAN Serial Data (-)	U0074*	U0074, U1817*	U0074*	--
Ground	--	U1817*	--	--
* Other DTCs may set with this fault.				

Circuit/System Description

Control modules connected to the powertrain high-speed GMLAN serial data circuits monitor for serial data communications during normal vehicle operation. Operating information and commands are exchanged among the control modules. The control modules have prerecorded information about what messages are needed to be exchanged on the serial data circuits, for each virtual network. The messages are supervised and also, some periodic messages are used by the receiver module as an availability indication of the transmitter module. Each message contains the identification number of the transmitter module.

The motor control modules and the hybrid powertrain control module 1 are all internal to the power inverter module. All circuits to the hybrid powertrain control module 1 are