

#### 4. GENERAL SPECIFICATIONS

The following table specifies systems, code categories, hexadecimal values and particular sections of electrical/electronic systems diagnostic.

TABLE 1 - GENERAL CODE SPECIFICATIONS

System	Code Categories	Hex Value	Appendix
Body	B0xxx - B3xxx	8xxx - Bxxx	B0
Chassis	C0xxx - C3xxx	4xxx - 7xxx	C0
Powertrain	P0xxx - P3xxx	0xxx - 3xxx	P0
Network	U0xxx - U3xxx	Cxxx - Fxxx	U0

The recommended DTCs consist of a three digit hexadecimal code preceded by an alphanumeric designator. The alphanumeric designators are "B0", "B1", "B2", "B3", "C0", "C1", "C2", "C3", "P0", "P1", "P2", "P3", "U0", "U1", "U2", "U3", corresponding to four sets of body, four sets of chassis, four sets of powertrain and four sets of network trouble codes. The code structure itself is partially open-ended. A portion of the available numeric sequences (portions of "B0", "C0", "P0", "P2", "P3", "U0", and "U3") is reserved for uniform codes assigned by this or future updates. Detailed specifications of the DTC format structure are specified in Section 5.

Most circuit, component, or system diagnostic trouble codes that do not support a subfault strategy are specified by four basic categories:

- General Circuit Open
- Range/Performance
- Circuit Low
- Circuit High

Circuit Low is measured with the external circuit, component, or system connected. The signal type (voltage, frequency, etc.) shall be included in the message after Circuit Low.

Circuit High is measured with the external circuit, component, or system connected. The signal type (voltage, frequency, etc.) may be included in the message after Circuit High.

#### 5. FORMAT STRUCTURE

##### 5.1 Description

The diagnostic trouble code consists of an alphanumeric designator, B0 – B3 for body, C0 – C3 for chassis, P0 – P3 for powertrain, and U0 – U3 for network communication, followed by a hexadecimal number. The assignment of the proper alpha designator should be determined by the area most appropriate for that function. In most cases, the alpha designator will be implied since diagnostic information will be requested from a particular controller. However, this does not imply that all codes supported by a particular controller shall have the same alphanumeric designator. The codes are structured as in Figure 1.

# Sae J2012 Diagnostic Trouble Code Definitions

**DJ Losen**



**Sae J2012 Diagnostic Trouble Code Definitions:**

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