

### 3.3 SRS SELF DIAGNOSTICS

The SRS has a self diagnostic facility that can detect and isolate SRS problems or failures. When a problem or failure is detected, the Sensing and Diagnostic Module (SDM) sets a fault code that represents that particular problem or failure. Fault codes will cause the SRS warning lamp to be illuminated and depending on the fault, the SDM may disable the SRS.

If present, diagnosable system faults are detected by the SDM during an initialisation process when the ignition is first turned on. Upon first detection of an external system fault condition, the SDM records the failure and is classed as an 'Intermittent Failure'. If the fault condition is maintained to meet the failure duration conditions for the individual system problem (approximately 3 - 5 seconds), the fault then becomes a current Diagnostic Trouble Code (DTC). If the fault duration conditions are not met, the intermittent fault is cleared from the SDM.

Current DTCs are permanently stored in the SDM's memory. When the fault conditions are no longer met, the DTC will become a History DTC.

#### **CURRENT DTC'S**

Current DTCs when detected are stored in the SDM's RAM during the current ignition cycle and then maintained in an EEPROM. Current DTCs are set or cleared based on the condition of the SRS during ignition on or continuous monitoring of the current ignition cycle.

#### **NOTE:**

A current DTC can be identified on the TECH 2 display by the word 'Current' between the DTC number and the DTC description. The word 'History' between the DTC number and the DTC description indicates that the DTC displayed is a history DTC.

Current DTCs will be reset to History DTCs upon the next diagnostic test sequence that the fault conditions are not met. Current DTCs can be cleared (changed to history DTC) by removing the fault conditions.

TECH 2 is unable to clear current DTCs if the fault conditions still exist; TECH 2 will display 'Clear DTC Information Failed'.

DTCs stored in the SDM memory can only be displayed and / or cleared using the TECH 2 diagnostic scan tool

The TECH 2 communicates with SDM serial data via the Data Link Connector (DLC), which is attached to the instrument panel lower right hand trim, to the right of the steering column (refer to [3.4 TECH 2 DIAGNOSTICS](#) in this Section).

#### **HISTORY DTC'S**

History DTCs are set upon the clearing of a current DTC fault condition. History DTCs are maintained by the SDM over multiple ignition cycles in the EEPROM. The SDM can only clear history DTCs from its EEPROM by a clear DTCs serial data message via TECH 2.

#### **CLEARING FAULT CODES**

Once any system fault has been rectified, any fault codes stored in the Sensing and Diagnostic Module's memory can be erased by using TECH 2 "Clear DTCs" selection, refer to [3.4 TECH 2 DIAGNOSTICS](#) in this Section.

#### **IMPORTANT:**

**Once DTCs have been cleared, be sure to verify proper system operation and absence of any fault codes when clearing procedure is completed.**

**If TECH 2 displays "Clear DTC Information Failed" after attempting to clear DTCs, the fault condition still exists.**