# Pressure Control Solenoid "B" Electrical (Shift Solenoid Valve SL2)

#### DESCRIPTION

Shifting from 1st to 5th is performed in combination with the ON and OFF operation of the shift solenoid valves SL1, SL2, SL3, S4 and SR, which are controlled by the ECM. If an open or short circuit occurs in any of the shift solenoid valves, the ECM controls the remaining normal shift solenoid valves to allow the vehicle to be operated safely (see page AX-35).

DTC No.	DTC Detection Condition	Trouble Area
P0778	ECM checks for an open or short circuit in shift solenoid valves SL2 (1 trip detection logic) Hybrid IC for solenoid indicates fail	<ul> <li>Open or short in shift solenoid valve SL2 circuit</li> <li>Shift solenoid valve SL2</li> <li>ECM</li> </ul>

## **MONITOR DESCRIPTION**

The ECM commands gear shifts by turning the shift solenoid valves ON/OFF. When there is an open or short circuit in any shift solenoid valve circuit, the ECM detects the problem and illuminates the MIL and stores the DTC. And the ECM performs the fail-safe function and turns the other normal shift solenoid valves ON/OFF. In case of an open or short circuit, the ECM stops sending current to the circuit (see page AX-35).

## **MONITOR STRATEGY**

Related DTCs	P0778: Shift solenoid valve SL2/Range check	
Required sensors/Components	Shift solenoid valve SL2	
Frequency of operation	Continuous	
Duration	1 sec.	
MIL operation	Immediate	
Sequence of operation	None	

## **TYPICAL ENABLING CONDITIONS**

The monitor will run whenever this DTC is not present.	None
Battery voltage	11 V or more
Starter	OFF
Ignition switch	ON
Solenoid current cut status	Not cut
CPU commanded duty	19% or more

# TYPICAL MALFUNCTION THRESHOLDS

Solenoid status from MIC	Fail

## COMPONENT OPERATING RANGE

Output signal duty	Less than 100%



#### WIRING DIAGRAM



## **INSPECTION PROCEDURE**

Vire Harness Side	<ul> <li>(a) Disconnect the</li> <li>(b) Measure the resistant of the set of the</li></ul>	<ul> <li>(a) Disconnect the B32 wire connector.</li> <li>(b) Measure the resistance of the transmission wire.</li> <li>Standard resistance</li> </ul>		
	Tester Connection	Condition	Specified Condition	
SL2+	5 (SL2+) - 12 (SL2-)	20°C (68°F)	<b>5.0 to 5.6</b> Ω	
	5 (SL2+) - Body ground	20°C (68°F)	1 M $\Omega$ or higher	
	12 (SL2-) - Body ground	20°C (68°F)	<b>1 M</b> $\Omega$ or higher	
SL2-	NG	Go to step 3		
C136	383E04			

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**REPAIR OR REPLACE TRANSMISSION WIRE**