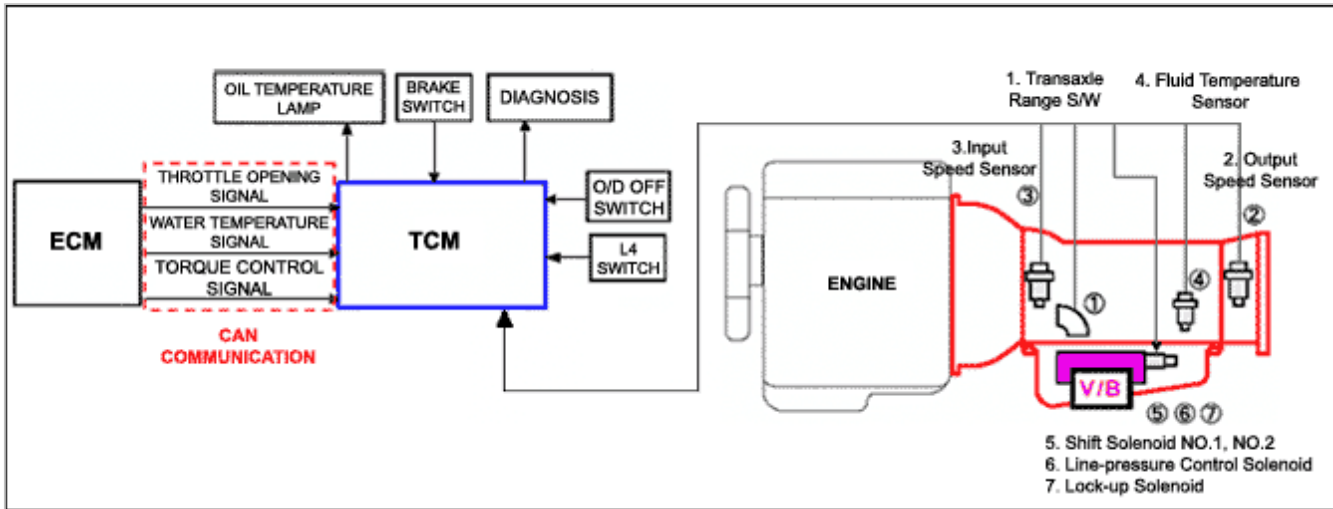


Component Location



Troubleshooting Hints

Fault Sources

1. Related signal source malfunction
2. Open or short circuit

DTC Detecting Condition

DTC Strategy	Enable Conditions	Threshold value	Diagnosis Time	MIL on condition
Circuit Malfunction		TCU detects abnormal data for engine speed from ECM via CAN	2secs continuous	after 2nd driving cycle

Description

Engine speed information comes from ECM to TCM through CAN communication lines. Without CAN communication, an independent pin and wiring is needed to receive a sensor information from a ECM. The more information to be communicated, the more wirings is required. In case of CAN communication type, all the information need to be communicated among control modules such as TCM, ECM and TCCM (Transfer Case Control module) use CAN lines. Shifting is based on inputs to a control computer from various sensors, such as engine temperature, engine speed, engine load, vehicle speed , throttle position, oil temperature and gear selector position. TCM compares the information from the sensors against the shifting instructions programmed into it. The TCM then controls the appropriate solenoid valves to provide for optimum shifting timing.

If the Engine speed signal from ECM via CAN deviates from normal value, the DTC will be set.

Signal Waveform



G 3.5 DOHC > Transmission 4-Speed > P0727 Eng. Speed Input Circuit No Signal > General Description

1.2 CURRENT DATA					1.2 CURRENT DATA					1.2 CURRENT DATA							
×	01.ENGINE SPEED	810	rpm	▲	×	01.ENGINE SPEED	952	rpm	▲	×	01.ENGINE SPEED	741	rpm	▲			
×	04.INPUT SPEED SENSOR	781	rpm	■	×	02.VEHICLE SPEED SENS0	18	Km/h	■	×	04.INPUT SPEED SENSOR	0	rpm	■			
×	05.O/PUT SPEED SENSOR	0	rpm		×	04.INPUT SPEED SENSOR	877	rpm		×	05.O/PUT SPEED SENSOR	0	rpm				
	06.PRESSURE SOLENOID				×	05.O/PUT SPEED SENSOR	571	rpm			06.PRESSURE SOLENOID						
	07.OIL TEMPERATURE				×	08.GEAR POSITION	2				07.OIL TEMPERATURE						
	08.GEAR POSITION					09.SELECT LEVER POSIT.					08.GEAR POSITION						
	09.SELECT LEVER POSIT.					10.SNOW SWITCH(2WD)					09.SELECT LEVER POSIT.						
	10.SNOW SWITCH(2WD)					11.BRAKE SWITCH					10.SNOW SWITCH(2WD)						
	Service Data at idle in P range					Service Data in 2nd range					Service Data in D range & Brake applied						
FIX	PART	FULL	HELP	GRPH	RCRD	FIX	PART	FULL	HELP	GRPH	RCRD	FIX	PART	FULL	HELP	GRPH	RCRD

Schematic Diagram

ActiveX Control

Schematic Diagram



ActiveX Control

Full Circuit



ActiveX Control



ActiveX Control