SENSED PARAMETER	FAULT CODE	ACCEPTABLE OPERATING RANGE AND RATIONALITY	PRIMARY MALF DETECTION PARAMETERS	SECONDARY MONITORING PARAMETERS AND CONDITIONS	FAIL MONITORING TIME LENGTH AND FREQUENCY OF CHECK	FAULT CODE STORAGE AND MIL ILLUMI- NATION
Throttle Position Signal No Valid Signal CAN	P0120	This DTC detects an invalid throttle position value from the ECU to the TCM	ECU CAN message does not contain a valid throttle position value for 2.0 seconds	Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds No CAN error in process	Continuous	DTC Type B
TCM ROM Test	P0601	This DTC detects an error in the flash memory containing the program and calibration	Checksum calculation algorithm of flash memory	none	immediate	DTC Type A
No Start Calibration	P0602	This DTC indicates the flash memory has not been programmed	KbINFD_NoStartCal = TRUE	none	immediate	DTC Type A
Power up copy of NVM to RAM	P0603	This DTC detects an error in the RAM copy of NVM @ power up	Checksum calculation algorithm of NVM copy	none	immediate	DTC Type A
RAM Test	P0604	This DTC tests the read/write capability of each RAM location	Read and write each RAM location	none	immediate	DTC Type A
Transmission Input Speed Sensor performance, signal drop	P0716	RPM to 6800 RPM This DTC detects an unrealistic large drop in transmission input speed.	Trans input speed delta ≥ 1000 RPM during sample period	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No throttle system P1791, P1795 DTC's - No TISS P0716 FA or TFTKO - No TISS P0716 FA or TFTKO - No TISS P0717 DTC - No TOSS P0722, P0723 DTC's - No shift solenoid A performance DTC P0752 - No shift solenoid A performance DTC P0752 - No shift solenoid A electrical DTC's P1842 or P1843 - No Engine Torque DTC's - Vehicle speed ≥ 16 KPH - TPS ≥ 12 % - Trans input speed > 1050 RPM for time ≥ 2 seconds - Positive trans input speed delta ≥ 500 RPM for time ≥ 2 seconds Negative trans input speed delta for a time ≥ 2 seconds	4 second sample period	DTC Type B
Transmission Input Speed Sensor Low input, no activity	P0717	0 RPM to 6800 RPM This DTC detects a low transmission input speed when the vehicle is moving in a drive gear range.	Trans input speed < 100 RPM over sample period	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No Engine Torque DTC's - No TOSS P0722, P0723 DTC's - Vehicle speed ≥ 16 KPH - No TISS 717 FA or TFTKO	5 second sample period Continuous	DTC Type B
Vehicle Speed Sensor Low input	P0722	0 RPM to 6800 RPM This DTC detects a low vehicle speed when the vehicle has a large engine speed in a drive gear range.	Transmission output speed ≤ 100 RPM	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No engine torque default - No TISS P0716 or P0717 DTC's - No TPS DTC's - No P0723 DTC - P0722 not FA or TFTKO - Engine Torque: 70 to 450 Nm - Throttle position ≥ 12% - TISS: 1500 to 6800 RPM	3 seconds Continuous	DTC Type B
Vehicle Speed Sensor Intermittent	P0723	0 RPM to 6800 RPM This DTC detects an unrealistic large drop in vehicle speed.	Transmission output speed drop ≥ 1300 RPM during sample period	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No TISS P0716, P0717 DTC's - No shift solenoid A electrical DTC P1843 - Trans input speed change between samples ≤ 500 RPM for time ≥ 2 seconds - Trans output speed > 1400 RPM for a time ≥ 2 seconds - Positive trans output speed delta ≤ 500 RPM for a time ≥ 2 seconds OR Negative trans output speed delta for a time ≥ 2 seconds	3 second sample period	DTC Type B

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Engine Speed Sensor Circuit No Valid Signal CAN	P0727	This DTC detects an invalid engine speed value from the ECU to the TCM	ECU CAN message does not contain a valid engine speed value for 2 seconds	- Ignition voltage: 8 V to 18 V	Continuous	DTC Type B
TCC System Stuck OFF	P0741	This DTC detects high torque converter slip when the TCC is commanded on.	Increment fail counter when: TCC slip ≥ f(engine torque) for time ≥ 8 seconds, where f(engine torque) is 150 to 250 RPM Fail counter ≥ 1	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No IMS range DTC's - No throttle system P1791, P1795 DTC's - No engine torque default - No TISS P0716, P0717 DTC's - No TOSS P0722, P0723 DTC's - IMS range is D2, D3, D4 or D5 - No TCC solenoid electrical P1866, P1867 DTC's - No TCC stuck ON P0742 TCC DTC set - No IMS range change in last 6 seconds - TPS: 12% to 90% - Trans temp.: 20 C to 130 C - Engine torque: 55 Nm to 450 Nm - 3rd gear ratio: 1.56 to 1.64 or - 4rd gear ratio: 0.98 to 1.03 or - 5rd gear ratio: 0.73 to 0.77 - TCC LOCKED or ON - TCC commanded pressure ≥ 150 kPa for time ≥ 5 seconds - TCC duty cycle ≥ 80% for time ≥ 5 seconds	Run fail only once per TCC ON cycle, at a max rate of 100 mS.	DTC Type B
TCC System Stuck ON	P0742	This DTC detects low torque converter slip when the TCC is commanded off.	Increment fail counter when: TCC Slip: -20 to +20 RPM for time ≥ 2.8 seconds Fail Counter ≥ 4	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No IMS range DTC's - No throttle system P1791, P1795 DTC's - No engine torque default - No TISS P0716, P0717 DTC's - No TOSS P0722, P0723 DTC's - IMS range is D5 - No TCC solenoid electrical P1866, P1867 DTC's - No TCC stuck OFF P0741 TCC DTC set - Not in 1st gear - Trans temp: 20 C to 130 C - Engine torque: 80 Nm to 450 Nm - Throttle position: 15% to 90% - Engine speed: 500 to 6800 RPM - Vehicle speed ≥ 15 KPH - Gear ratio: 0.73 to 2.27 - TCC is commanded OFF	100 mS continuous	DTC Type B

SENSED PARAMETER	FAULT CODE	ACCEPTABLE OPERATING RANGE AND RATIONALITY	PRIMARY MALF DETECTION PARAMETERS	SECONDARY MONITORING PARAMETERS AND CONDITIONS	FAIL MONITORING TIME LENGTH AND FREQUENCY OF CHECK	FAULT CODE STORAGE AND MIL ILLUMI- NATION
Shift Solenoid A Performance	P0751	This DTC detects abnormal shift pattern Stuck ON: 2-2-3-3-3 pattern	The fail counter is incremented when the following fail cases are true: Stuck ON fail case 1 AND fail case 2 Fail Counter ≥ 2	General - Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No TPS DTC's - No IMS range DTC's - No IMS range DTC's - No shift solendoid electrical DTC's: P1842, P1843, P1845, P1847 P1864, P1865 - No TCC stuck ON DTC P0742 - No TISS P0716, P0717 DTC's - No TOSS P0722, P0723 DTC's - IMS range not park or neutral or reverse - Trans input speed: 200 to 6800 RPM - Trans output speed ≥ 100 RPM Fall Case 1 - 1st gear commanded for time ≥ 1.25 second - TPS ≥10% - Engine torque: 40 Nm to 450 Nm - Gear ratio: 2.16 to 2.27	Fail Case 1 1.25 seconds	DTC Type B
				Fail Case 2 - 4th or 5th gear commanded for time ≥ 5.0 second - TPS ≥ 10% - Engine torque: 36 Nm to 450 Nm - Gear ratio: 1.56 to 1.64	Fail Case 2 5 seconds	
Shift Solenoid A Performance	P0752	This DTC detects abnormal shift pattern Stuck OFF: 1-1-4-4-5 pattern	The fail counter is incremented when the following fail cases are true: Stuck OFF fail case 3 AND fail case 4 Fail Counter ≥ 2	General - Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No TPS DTC's - No IMS range DTC's - No IMS range DTC's - No shift solendoid electrical DTC's: P1842, P1843, P1845, P1847 P1864, P1865 - No TCC stuck ON DTC P0742 - No TISS P0716, P0717 DTC's - No TOSS P0722, P0723 DTC's - IMS range not park or neutral or reverse - Trans temp: 20 C to 130 C - Trans input speed: 200 to 6800 RPM - Trans output speed ≥ 100 RPM	Continuous	DTC Type B
				Fail Case 3 - 2nd gear commanded for time ≥ 1.0 second - TPS ≥10% - Engine torque: 32 Nm to 450 Nm - Gear ratio: 3.33 to 3.50 Fail Case 4 - 3rd gear commanded for time ≥ 1.0 second - TPS ≥ 10% - Engine torque: 32 Nm to 450 Nm - Gear ratio: 0.98 to 1.03	Fail Case 3 2 seconds Fail Case 4 5 seconds	

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Shift Solenoid B Performance	P0756	This DTC detects abnormal shift pattern Stuck OFF: 5-3-3-4-5 pattern	The fail counter is incremented when the following fail cases are true: Stuck OFF fail case 5 AND fail case 6 Fail Counter ≥ 1	General - Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No TPS DTC's - No IMS range DTC's - No engine torque default - No shift solendoid electrical DTC's: P1842, P1843, P1845, P1847 P1864, P1865 - No TCC stuck ON DTC P0742 - No TISS P0716, P0717 DTC's - No TOSS P0722, P0723 DTC's - IMS range not park or neutral or reverse - Trans temp: 20 C to 130 C - Trans input speed: 200 to 6800 RPM - Trans output speed ≥ 200 RPM Fail Case 5 - 1st gear commanded for time ≥ 1.0 second - TPS ≥10% - Engine torque: 40 Nm to 450 Nm	Continuous Fail Case 5	DTC Type B
Shift Solenoid B Performance	P0757	This DTC detects abnormal shift pattern	The fail counter is incremented when the following	- Trans output speed ≥ 200 RPM - Gear ratio: 0.73 to 0.77 Fail Case 6 - 2nd gear commanded for time ≥ 1.0 second - TPS ≥ 10% - Engine torque: 36 Nm to 450 Nm - Gear ratio: 1.56 to 1.64 General	Eail Case 6 1 seconds Continuous	DICTURE
эни зовной в геноплалсе	F0/5/	Stuck ON: 1-2-2-1-1 pattern	fail cases are true: Stuck OFF fail case 7 AND fail case 8 Fail Counter ≥ 1	General Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds No TPS DTC's No IMS range DTC's No engine torque default No shift solendoid electrical DTC's: P1842, P1843, P1845, P1847 P1864, P1865 No TCC stuck ON DTC P0742 No TISS P0716, P0717 DTC's No TOSS P0722, P0723 DTC's IMS range not park or neutral or reverse Trans temp: 20 C to 130 C Trans input speed ≥ 100 RPM	Continuous	DTC Type B
				Fail Case 7 - 3rd gear commanded for time ≥ 1.0 second - TPS ≥10% - Engine torque: 20 Nm to 450 Nm - Trans output speed ≥ 200 RPM - Gear ratio: 2.16 to 2.27 Fail Case 8 - 4th or 5th gear commanded for time ≥ 1.0 second - TPS ≥ 10% - Engine torque: 12 Nm to 450 Nm - Gear ratio: 3.33 to 3.50	Fail Case 7 2 seconds Fail Case 8 2 seconds	

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Shift Solenoid C Performance	P0761	This DTC detects abnormal shift pattern Stuck OFF: 1-2-3-5-5 pattern	The fail counter is incremented when the following fail cases are true: Stuck OFF fail case 9 Fail Counter ≥ 2	General Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds No TPS DTC's No IMS range DTC's No engine torque default No shift solendoid electrical DTC's: P1842, P1843, P1845, P1847 P1864, P1865 No TCC stuck ON DTC P0742 No TISS P0716, P0717 DTC's No TOSS P0722, P0723 DTC's IMS range not park or neutral or reverse Trans temp: 20 C to 130 C Trans input speed: 200 to 6800 RPM Trans output speed ≥ 100 RPM Fail Case 9 4th gear commanded for time ≥ 1.0 second TPS ≥10% Engine torque: 36 Nm to 450 Nm Gear ratio: 0.73 to 0.77	Continuous Fail Case 9 4 seconds	DTC Type B
Shift Solenoid C Performance	P0762	This DTC detects abnormal shift pattern Stuck ON: 1-2-3-4-4 pattern	The fail counter is incremented when the following fail cases are true: Stuck ON fail case 10 Fail Counter ≥ 2	General - Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No TPS DTC's - No IMS range DTC's - No engine torque default - No shift solendoid electrical DTC's: P1842, P1843, P1845, P1847 P1864, P1865 - No TCC stuck ON DTC P0742 - No TISS P0716, P0717 DTC's - No TOSS P0722, P0723 DTC's - IMS range not park or neutral or reverse - Trans temp: 20 C to 130 C - Trans input speed: 200 to 6800 RPM - Trans output speed ≥ 100 RPM	Continuous	DTC Type B
				- 5th gear commanded for time ≥ 1.0 second - TPS ≥10% - Engine torque: 36 Nm to 450 Nm - 2nd or 3rd gear commanded for time ≥ 3.0 seconds - Gear ratio: 0.98 to 1.03	Fail Case 10 3.5 seconds	
Shift Solenoid A Electrical (open or ground short)	P0973	0V to 12V This DTC detects a continuous short to ground or open on shift solenoid A circiut	Fail counter ≥ 43 counts out of 50 total counts	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - High side driver 2 is commanded on - Shift solenoid is commanded on and an open is detected by hardware OR Shift solenoid is commanded off and a short to ground is detected by hardware	Continuous	DTC Type B
Shift Solenoid A Electrical (power short)	P0974	0V to 12V This DTC detects a continuous short to voltage on shift solenoid A circiut	Fail counter ≥ 43 counts out of 50 total counts	Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds High side driver 2 is commanded on Shift solenoid is commanded on and a short to voltage is detected by hardware	Continuous	DTC Type B

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Shift Solenoid B Electrical (open or ground short)	P0976	0V to 12V This DTC detects a continuous short to ground or open on shift solenoid B circiut	Fail counter ≥ 43 counts out of 50 total counts	Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds High side driver 2 is commanded on Shift solenoid is commanded on and an open is detected by hardware OR Shift solenoid is commanded off and a short to ground is detected by hardware	Continuous	DTC Type B
Shift Solenoid B Electrical (power short)	P0977	OV to 12V This DTC detects a continuous short to voltage on shift solenoid B circiut	Fail counter ≥ 43 counts out of 50 total counts	Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds High side driver 2 is commanded on Shift solenoid is commanded on and a short to voltage is detected by hardware	Continuous	DTC Type B
Shift Solenoid C Electrical (open or ground short)	P0979	0V to 12V This DTC detects a continuous short to ground or open on shift solenoid C circiut	Fail counter ≥ 43 counts out of 50 total counts	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - High side driver 2 is commanded on - Shift solenoid is commanded on and an open is detected by hardware OR Shift solenoid is commanded off and a short to ground is detected by hardware	Continuous	DTC Type B
Shift Solenoid C Electrical (power short)	P0980	OV to 12V This DTC detects a continuous short to voltage on shift solenoid C circiut	Fail counter ≥ 43 counts out of 50 total counts	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - High side driver 2 is commanded on - Shift solenoid is commanded on and a short to voltage is detected by hardware	Continuous	DTC Type B
Power down copy of RAM to NVM	P1621	This DTC detects an error in the RAM copy to NVM © power down	Checksum calculation algorithm RAM to NVM copy	none	immediate	DTC Type A
Torque Reduction Signal Circuit	P1740	This DTC detects a failed torque reduction requested by the ECU to the TCM	ECU CAN torque request fail flag is true for 2.0 seconds	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No CAN error in process	Continuous	DTC Type B
IMS Start in Wrong Range	P1815	0V to 12V This DTC detects an invalid state of the IMS during engine start up.	IMS position remains in a transitional state during the sequential period of the test.	- Run once per ignition cycle - Ignition voltage: 6 V to 18 V - No TOSS P0722, P0723 DTC's - Trans output speed ≤ 100 RPM - Engine speed ≤ 60 RPM for time ≥ 0.25 seconds - Sequentially: Engine speed 81 to 625 RPM for time ≥ 0.15 seconds Then Engine speed ≥ 651 RPM and input speed ≥ 200 RPM for time ≥ 1.5 seconds	Once per ignition cycle during engine start up.	DTC Type B
IMS Circuit A Low	P1820	0V to 12V This DTC detects an IMS circuit A ground short.	IMS Circuit A open flag is not set, increment fail counter.	Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No engine torque default - Engine torque: 55 to 450 Nm - IMS range is Park for time ≥ 1.0 seconds - A transitional IMS state is present for time ≥ 4.0 seconds	Fail Co unter ≥ 1	DTC Type B
IMS Circuit B High	P1822	0V to 12V This DTC detects an IMS circuit B power short.	IMS Circuit B open flag is set, increment fail counter.	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - No engine torque default - Engine torque: 55 Nm to 450 Nm - IMS range is Park for time ≥ 1.0 seconds - A transitional IMS state is present for time ≥ 4.0)seconds	Fail Counter ≥ 1	DTC Type B

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IMS Circuit P Low	P1823	0V to 12V This DTC detects an IMS circuit P ground short.	IMS Circuit P open flag is not set, increment fail counter.	Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds No engine torque default Engine torque: 25 Nm to 450 Nm IMS range is Park for time ≥ 1.0 seconds A transitional IMS state is present for time ≥ 5.0 seconds	Fail Counter ≥ 1	DTC Type B
IMS Illegal Range	P1825	0V to 12V This DTC detects an IMS "illegal" range value.	IMS range value converted is not a valid value.	Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds	5.0 seconds Continuous	DTC Type B
IMS Circuit C High	P1826	OV to 12V This DTC detects an IMS circuit C power short.	IMS Circuit B open flag is set, increment fail counter.	- Ignition voltage: 8 V to 18 V - No TOSS DTC's - No engine torque default - Engine torque ≥ 20 Nm - Vehicle speed ≥ 8.0 KHP - Gear ratio: 3.33 to 3.50 (1 ^{5t}) OR 2.16 to 2.27 (2 nd) OR 1.56 to 1.64 (3 rd) OR 0.98 to 1.03 (4 th) OR 0.73 to 0.77 (5 th) - P1826 not passed this ignition cycle	3.0 seconds Fail Counter ≥ 1	DTC Type B
High Side Driver 2 Ground Short	P1833	OV to 12V This DTC detects a continuous short to ground on the high side driver circiut	Fail counter ≥ 21 counts out of 25 total counts	Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds High side driver 2 is commanded on and ground short is detected by hardware	Continuous	DTC Type B
High Side Driver 2 Power Short	P1834	0V to 12V This DTC detects a continuous short to power on the high side driver circiut	immediate	TCM powered Hardware monitor detects voltage ≥ 6.4 V on high side driver 2 circuit	Continuous	DTC Type B
Engine Torque Signal Circuit No Valid Signal CAN	P2637	This DTC detects an invalid engine torque value from the ECU to the TCM	ECU CAN message does not contain a valid engine torque value for 2.0 seconds	Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds No CAN error in process	Continuous	DTC Type B
TCC PWM Solenoid Electrical (power short)	P2763	0V to 12V This DTC detects a continuous short to power on TCC PWM circiut	Fail counter ≥ 43 counts out of 50 total counts	 Ignition voltage: 8 V to 18 V Engine speed: 450 to 6800 RPM for at least 5 seconds High side driver 2 is commanded on TCC duty cycle ≥ 45 % AND power short is detected by hardware 	Continuous	DTC Type B
TCC PWM Solenoid Electrical (open or ground short)	P2764	0V to 12V This DTC detects a continuous short to ground or open on TCC PWM circiut	Fail counter ≥ 43 counts out of 50 total counts	- Ignition voltage: 8 V to 18 V - Engine speed: 450 to 6800 RPM for at least 5 seconds - High side driver 2 is commanded on - Ground short detection: TCC duty cycle ≥ 20 % OR TCC duty cycle ≤ 50 % AND ground short is detected by hardware - Open detection: TCC duty cycle ≥ 20 % AND open is detected by hardware	Continuous	DTC Type B

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CAN Bus Error ECU	C100	This DTC detects a communication problem between the TCM and ECU	No valid ECU CAN message for 2.0 seconds	- Ignition voltage: 8 V to 18 V - no ECU engine speed and torque message for time ≥ 50 mS AND no ECU throttle position message for time ≥ 50 mS AND no ECU general status message for time ≥ 2.0 sec AND no ECU engine coolant temp and baro for time ≥ 2.0 sec AND no ECU wheel speed for time ≥ 50 mS	Continuous	DTC Type B