COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUN
Transmission Fluid	P0711		For Case 1 (Stuck sensor after		All Cases		Case 1:	
Temperature Sensor		the transmission fluid temperature sensor by comparing changes in	cold start-up) Start-up temperature change	<= 2 deg. C	No MIL-on DTCs for this drive	P0716	75 seconds	В
Circuit Range/Performance		temperature from start up and between samples to calibration values.	for a time	>= 100 seconds	cycle	P0717 P0721		
			AND			P0722		
						P0742		
			Vehicle speed		No Fault Pending DTCs for this drive cycle			
			for a time	>= 300 seconds.		P0717 P0721		
			For Case 2 (Stuck sensor after			P0721	Case 2:	
			warm start-up) Start-up temperature change	<= 3 deg. C			75 seconds	
			• • •	>= 100 seconds	No Pass DTCs for this drive cycle	P0711		
			AND		No MIL-on DTC for this drive			
					cycle OR			
			Vehicle speed		No Fault Active DTC	P0711		
				>= 300 seconds.				
			For Case 3 (Noisy sensor)		Components powered		Case 3:	
			Change from previous temperature	>= 20 deg. C	AND		7 seconds	
			for	14 events in < 7 seconds.	Battery Voltage	> 9 V and < 18 V		
			For Case 4 (Doesn't warm up to at least 20 deg. C)		-	> 200 RPM and < 7500 RPM	Case 4:	
			Time Enabled Criteria met AND		FOR	5 seconds	Min. 250 seconds	
			transmission fluid temperature	< 20 deg. C.	Start-up transmission fluid temperature is available			
			determined by a lookup table	250 seconds when start-up temperature is >= 20 deg. C	Transmission fluid temperature	> -39 deg. C and < 149 deg. C		
			2200 seconds when start-up temperature is <= -40 deg. C.	ECT is not defaulted				
		For Case 5 (Reasonableness at start-up):		For Case 1 (Stuck sensor after cold start-up),		Case 5:		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			At start-up (with no abnormal powerdown condition), engine speed	> 500 RPM	Start-up transmission fluid temperature		2 seconds	
			-	> -39 deg. C and < 50 deg. C >= 2 seconds		>= 120 RPM >= 300 seconds	250 ms	
			AND		engine coolant temperature AND			
			((ABS(IAT-ECT) AND (ECT-TFT))		engine coolant temperature change from start-up For Case 2 (Stuck sensor after			
			OR (ABS(IAT-ECT)	> 6 deg. C	warm start-up), Start-up transmission fluid temperature	> 115 deg. C and < 150 deg. C.		
			AND (ECT-TFT)))		for a time	>= 120 RPM >= 300 seconds		
					engine coolant temperature AND engine coolant temperature	>= 55 deg. C		
						>= 150 Nm and <= 1492 Nm >= 22 KPH and <= 512 KPH		
						>= 10.5% and <= 100% >= 500 RPM and <= 6500 RPM >= -39 deg. C and <= 149 deg. C		
					For Case 5 (Reasonableness at start-up): Intake Air Temperature is not defaulted			

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
Transmission Fluid Temperature Sensor Circuit Low Input	P0712	Out of range low.	transmission fluid temperature for a time	>=150 deg. C > 2.5 seconds.	No MIL-on DTCs for this drive cycle Components powered AND Battery Voltage	P0712 P0713	2.5 seconds 250 ms	В
						> 200 RPM and < 7500 RPM 5 seconds		
Transmission Fluid Temperature Sensor Circuit High Input	P0713	Out of range high.	transmission fluid temperature for a time	<= -45 deg. C > 2.5 seconds	No MIL-on DTCs for this drive cycle	P0711 P0712 P0713	2.5 seconds 250 ms	В
						> 9 V and < 18 V > 200 RPM and < 7500		
					for IF Engine run time	RPM 5 seconds		
					THEN Engine Coolant Temperature AND not defaulted for a time			
Speed Sensors Input/Turbine Speed Sensor Circuit Range/Performance		This test detects large changes in Input Speed and noisy Input Speed by comparing to calibration values.	For Case 1: (Unrealistically large changes in input speed) Change of Input Speed between samples for	>= 800 RPM >= 0.15 seconds	All cases No MIL-on DTCs for this drive cycle		For Case 1: 0.15 s For Case 2:	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUN
			For Case 2: (Noisy Input Speed)			P0722		
			For sample size	80			For Case 3:	
			IF the change in Input Speed	<= -800 RPM	No Fault Pending DTCs for this	P0721	1 s	
			THEN the Low Counter is		drive cycle.	P0722	25 ms	
			incremented. IF the change in Input Speed		Shifting complete			
			THEN the High Counter is	>= 800 RPW	Shifting complete			
			incremented.					
					For Case 1 (Unrealistically large changes in input speed) and Case 2 (Noisy Input Speed),			
			This test fails if both the Low	>= 5	Input Speed	> 200 RPM		
			Counter and the High Counter OR		for	>= 0.5 seconds		
			High Counter	>= 5				
					For Case 3 (Wires to speed			
			For Case 3: (Wires to speed		sensors swapped), Input speed	> 100 RPM		
			sensors swapped) Increment counter when range		Engine speed	> 100 RPM		
			attained and range commanded are neutral for a time		3 - 1			
				<= 3.5 seconds				
			AND when ratio of engine speed and		Hydraulic system pressurized			
			input speed	>= 3				
					Enables met			
			Arm test when counter OR	>=20	AND No MIL-on DTCs	D0716		
			_	> 3.5 seconds	NO MIL-OII DTCS	P0716 P0717		
			inion umo	- 0.0 0000ac	for a time	>= 0.2 seconds		
			Malfunction is reported when, for	> 0.5 seconds				
			a time the range commanded is	NOT neutral				
			AND					
			the on-coming clutch control is					
			complete AND					
			input speed	> 100 RPM				
			AND					
			engine speed	> 100 RPM				

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
Input/Turbine Speed	P0717	This test detects unrealistically low					1 second	A
Sensor Circuit No Signal		value of input/turbine speed or unrealistically large changes in input/turbine speed.	For Case 1: (Unrealistically large change in input speed) Failure pending if change in transmission input speed For Case 2: (Unrealistically low value of input speed) Failure pending if transmission input speed	>= 800 RPM	All Cases No MIL-on DTCs for this drive cycle Reverse-to-Neutral shift not in process Shifting complete		25 ms	
			This test fails if input speed AND	< 61 RPM	Engine is running Range attained is not neutral			
			output speed		Transmission fluid temperature For Case 2: (Unrealistically low input speed) No MIL-on DTCs for this drive cycle			
					No Fault Pending DTCs Transmission output speed OR Transmission output speed AND	P0722 >= 150 RPM		
					Engine Speed			
Output Speed Sensor Circuit Range/Performance		This test detects a noisy output speed sensor or circuit by detecting large changes in output	For Case 1: (Unrealistically large		No MIL-on DTCs for this drive	Do-10	For Case 1: 0.15 s	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
		speed.	Change in output speed	>= 500 RPM		P0717		
				>= 0.15 seconds		P0721	For Case 2:	
						P0722	2 seconds	
			For Case 2: (Noisy output speed)				25 ms	
			For sample size	80	No Fault Pending DTCs for this drive cycle			
			IF the change in output speed	<= -500 RPM				
			THEN the Low Counter is incremented.		Output Speed	> 200 RPM		
			IF the change in output speed		for a time	>= 0.5 seconds		
			THEN the High Counter is incremented.		Shift gamplate			
			Test fails if both the Low Counter and the High Counter	>= 0	Shift complete			
			OR		AND			
			the Low Counter	>= 5	range attained	NOT neutral		
			OR	_				
			the High Counter	>= 5				
Output Speed Sensor	P0722	This test detects unrealistically low			All Cases		1 second	Δ
Circuit No Signal	. 0. 22	value of output speed or unrealistically large change in output speed.	For Case 1: (Unrealistically large change in output speed) Failure pending if		No MIL-on DTCs for this drive cycle.	P0721	25 ms	
			change in output speed	>= 600 RPM	For Case 1: (Unrealistically large change in output speed)			
			Failure sets if range attained is Neutral.		Test enabled when output speed			
			For Case 2: (Unrealistically low value of output speed) Failure pending if output speed	< 61 RPM	ior a time	>= 1 seconds		
			Failure sets if not monitoring for low speed neutral and output	< 61 RPM	Test disabled when output speed	<= 600 RPM		
			speed AND		for a time	> 1 seconds		
				3 rd , 4 th , 5 th , or 6 th	L			
			for a time	> 1 second	For Case 2: (Unrealistically low value of output speed) No MIL-on DTCs for this drive cycle.	P0731		
			Failure sets if not monitoring for low speed neutral and output	< 61 RPM	cycle.	P0732		
			speed AND			P0733		
i	I		7,110	1	I			

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			((net engine torque	< -100 Nm		P0734		
			OR			P0735		
			net engine torque)	> 100 Nm		P0736		
			OR			P0716		
			(turbine speed	> 1500 RPM		P0717		
			AND					
			range))	2 nd	No Fault Pending DTCs for this	P0716, P0717		
					drive cycle			
			for a time	>= 4 seconds.	Footor to accord			
					Engine is running			
					Shift not in process			
					Range attained is not Neutral			
					Reverse to Neutral shift not in			
					process			
					Transmission fluid temperature	> -25 deg. C		
					Transmission input speed	>= 1050 RPM		
					Not waiting for Manual Selector Valve to attain forward range			
					PRNDL State			
						NOT Transitional D4		
						NOT Transitional N		
Range Verifiication								
Gear 1 Incorrect Ratio	P0731	This test verifies transmission					2.25 seconds	A
		operating ratio while 1st range is commanded by comparing	Pending failure occurs when	>= 2 second	No MIL-on DTCs for this drive		25 ms	
		computed ratio to the commanded	accumulated event timer Timer accumulates when		cycle.	P0878		
		ratio.	transmission is in range	forward or reverse				
			AND			P0721		
			output speed			P0722		
ĺ			AND			P0716		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			gear slip	> 100 RPM		P0717		
					No Fault Pending DTC for this drive cycle.	P0717		
			In response to pending failure, a diagnostic response range is commanded. During this command, this test fails if Abs(Converter Slip)	>= 230 RPM > 10 samples.	orive cycle. No range switch response active			
					Hydraulic System Pressurized			
					Shift complete			
					Output speed	>= 200 RPM		
					No hydraulic default condition present			
					Normal powertrain shutdown not in process			
					Normal powertrain initialization is complete			
Gear 2 Incorrect Ratio		This test verifies transmission operating ratio while 2nd range is commanded by comparing computed ratio to the commanded ratio.	Pending failure occurs when accumulated event timer	>= 2 second	No MIL-on DTCs for this drive cycle.		2.25 seconds 25 ms	А
		iauo.	Timer accumulates when transmission is in range AND	forward or reverse		P0878 P0721		
			output speed	>= 100 RPM		P0722		
			AND			P0716		
			gear slip	> 100 RPM		P0717		
					No Fault Pending DTC for this drive cycle.	P0717		
			In response to pending failure, a diagnostic response range is commanded.					
			During this command, this test fails if Abs(Converter Slip) for	>= 230 RPM > 10 samples.	No range switch response active			
					Hydraulic System Pressurized			

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Gear 3 Incorrect Ratio	P0733	This test verifies transmission operating ratio while 3rd range is commanded by comparing computed ratio to the commanded ratio.	Pending failure occurs when accumulated event timer Timer accumulates when transmission is in range AND output speed AND	>= 2 second forward or reverse >= 100 RPM > 100 RPM	Shift complete Output speed No hydraulic default condition present Normal powertrain shutdown not in process Normal powertrain initialization is complete No MIL-on DTCs for this drive cycle. No Fault Pending DTC for this drive cycle. No range switch response active Hydraulic System Pressurized Shift complete	>= 200 RPM P0877 P0878 P0721 P0722 P0716 P0717	2.25 seconds 25 ms	A
					Output speed No hydraulic default condition present Normal powertrain shutdown not in process	>= 200 RPM		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Normal powertrain initialization is			
Gear 4 Incorrect Ratio	P0734	This test verifies transmission			complete		2.25 seconds	^
Geal 4 Incollect Natio	1 07 04	operating ratio while 4th range is commanded by comparing computed ratio to the commanded ratio.	Pending failure occurs when accumulated event timer Timer accumulates when transmission is in range		No MIL-on DTCs for this drive cycle.	P0877 P0878	25 ms	
			transmission is in range AND			P0721		
			output speed	>= 100 RPM		P0722		
			AND			P0716		
				> 100 RPM		P0717		
					No Fault Pending DTC for this drive cycle.			
			In response to pending failure, a diagnostic response range is commanded. During this command, this test fails if Abs(Converter Slip) for	>= 230 RPM > 10 samples.	No range switch response active			
					Hydraulic System Pressurized			
					Shift complete			
					Output speed	>= 200 RPM		
					No hydraulic default condition present			
					Normal powertrain shutdown not in process			
					Normal powertrain initialization is complete			
Gear 5 Incorrect Ratio	P0735	This test verifies transmission operating ratio while 5th range is commanded by comparing computed ratio to the commanded	Pending failure occurs when accumulated event timer	>= 2 second	No MIL-on DTCs for this drive cycle.	P0877	2.25 seconds 25 ms	Α
		ratio.	Timer accumulates when transmission is in range AND	forward or reverse		P0878 P0721		
				>= 100 RPM		P0722		
			AND 			P0716		
		l l	gear slip	> 100 RPM		P0717		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE		ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Reverse Incorrect Ratio		This test verifies transmission range while reverse range is commanded by comparing computed ratio to the commanded ratio.	Accumulated event timer Timer accumulates when transmission range AND output speed AND	> 10 samples. >= 2 seconds forward or reverse >= 100 RPM	No Fault Pending DTC for this drive cycle. No range switch response active Hydraulic System Pressurized Shift complete Output speed No hydraulic default condition present Normal powertrain shutdown not in process Normal powertrain initialization is complete No MIL-on DTCs for this drive cycle. No Fault Pending DTC for this drive cycle. No range switch response active Hydraulic System Pressurized Shift complete	>= 200 RPM P0877 P0878 P0721 P0722 P0716 P0717	2 seconds 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Gear 6 Incorrect Ratio	P0729	This test verifies transmission			Output speed No hydraulic default condition present Normal powertrain shutdown not in process Normal powertrain initialization is complete		2.25 seconds	Δ.
Geal o Illument Rallo	F 0729	operating ratio while 6th range is commanded by comparing computed ratio to the commanded ratio.	transmission is in range AND output speed AND gear slip In response to pending failure, a diagnostic response range is commanded. During this command, this test fails if Abs(Converter Slip)	forward or reverse >= 100 RPM > 100 RPM		P0877 P0878 P0721 P0722 P0716 P0717 P0717	2.25 seconds 25 ms	5

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Torque Converter Clutch								
Torque Converter Clutch Circuit Performance or Stuck Off	P0741	This test detects the torque converter being stuck off (unlocked).		>= 80 RPM >= 15 seconds.	No MIL-on DTCs for this drive cycle. No Fault Pending DTCs for this drive cycle.	P2761 P2763 P2764 P0721 P0722 P0716 P0717 P2761 P2763 P2764 P0721 P0722	15 s 100 ms	В
						9 V and < 18 V200 RPM and < 7500 RPM5 seconds		
					Transmission fluid temperature	s > 10 % and <= 90 % s > 5 deg. C and < 130 deg. C		
					Time Since Range Change			

TCC apply is complete TCC pressure >= 1000 kPa No MIL-on DTCs for this drive order. P2761 Case 1 Case 1 Case 1 Case 1 Case 1 Case 2 P7721 5 s P7721 5 s P7722 Case 3 P7711 5 s P7717 P7717 P7717 P7717 P7717 Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration exists continuously for a time >= 2 seconds. Report maffunction when fault pending when output shaft acceleration exists continuously for a time >= 5 seconds. P2764 P7717 Case 3: (AcceliPaceNAccel condition) Report maffunction when output acceleration even it is followed by output deceleration event and followed by another output acceleration event and followed by another output acceleration event and followed by another output acceleration event. An output acceleration event and followed by soutput shaft acceleration event. An output acceleration event and followed by another output acceleration event and followed by another output acceleration event. An output acceleration event and followed by another output shaft acceleration event. An output acceleration event and followed by another output acceleration event and followed by an	MPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUI
orque Converter P0742 This test detects the torque converter being stuck on (locked). Set fault pending when throttle >= 70% AND net engine torque >= 275 Nm. Report malfunction when fault pending wishs continuously for a time >= 2 seconds. Case 2: (High Acceleration condition) Set fault pending wishs continuously for a time >= 5 seconds. Report malfunction when fault pending wishs continuously for a time >= 5 seconds. Report malfunction when fault pending wishs continuously for a time >= 5 seconds. Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when teath of the condition when teath pending exists continuously acceleration event is followed by output deceleration event and followed by another output acceleration event cours when output shaft acceleration event cours when output shaft acceleration event cours when output acceleration event cours when output acceleration event cours when output shaft acceleration event cours when output shaft acceleration event acceleration event cours when output shaft acceleration event						TCC apply is complete			
converter being stuck on (locked). Case 1: (High Torque condition) Set fault pending when throttle >= 70% AND net engine torque >= 275 Nm. Report malfunction when fault pending exists continuously for a time >= 2 seconds. Report malfunction when fault pending when output shaft acceleration when fault pending exists continuously for a time >= 5 seconds. Report malfunction when fault pending when output acceleration revert and followed by output deceleration event and followed by another output acceleration event and followed by another output acceleration event and coloration event course when output shaft acceleration event and followed by another output acceleration event and followed by another output acceleration event and followed by another output acceleration event and supput acceleration event course when output shaft acceleration event and output saceleration event course when output shaft acceleration event course when output shaft acceleration event course when output saceleration event course when output shaft acceleration event course when output saceleration event course when output saceleration event course when output saceleration event and satisfact the same of the proving and satisfact the provin						TCC pressure	>= 1000 kPa		
Jutch Circuit Stuck On converter being stuck on (locked). Case 1: (High Torque condition) Set fault pending when throttle >= 70% P2764 Case 2 AND net engine torque >= 275 Nm. P0721 5 s Report malfunction when fault pending exists continuously for a time >= 2 seconds. Report malfunction when fault pending exists continuously for a time >= 2 seconds. Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration expension of a time >= 5 seconds. Report malfunction when fault pending when output shaft acceleration expension of a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event is followed by output deceleration event is followed by acceleration event is followed by acceleration event and followed by another output acceleration event. An output acceleration event and output acceleration event and output acceleration event and output acceleration event and output acceleration event. An output acceleration event and output acceleration event and output acceleration event. An output acceleration event and output acceleration event and output acceleration event and output acceleration event. An output acceleration event and output acceleration event and output acceleration event and output acceleration event and output acceleration event. An output acceleration event and output acceleration event and output shaft acceleration event and output acceleration event and output shaft acceleration event and output shaft acceleration event and output acceleration event and output shaft acceleration event and output shaft acceleration event and output shaft acceleration event and output acceleration event and output shaft acceleration event and output sha	e Converter	P0742	This test detects the torque			No MIL-on DTCs for this drive	P2761	Case 1	В
AND net engine torque >= 275 Nm. Report malfunction when fault pending exists continuously for a time >= 2 seconds. Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration \$\) = 100 RPM/second Report malfunction when fault pending exists continuously for a time >= 5 seconds. No Fault Pending DTCs for this drive cycle. P2763 No Fault Pending DTCs for this drive cycle. P2764 P2764 P0721 P2765 P2765 P2766 P2776 P0721 P0722 P0716 P0717 Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event and followed by another output acceleration event and followed by another output acceleration event acceleration event occurs when output shaft acceleration = 40 RPM/second for a time >= 4 seconds Battery Voltage > 9 V and < 18 V	n Circuit Stuck On		converter being stuck on (locked).	Case 1: (High Torque condition)		cycle.	P2763	2 s	
AND net engine torque >= 275 Nm. Report malfunction when fault pending exists continuously for a time >= 2 seconds. Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration to a time >= 5 seconds. Report malfunction when fault pending exists continuously for a time >= 5 seconds. No Fault Pending DTCs for this drive cycle. P2763 No Fault Pending DTCs for this drive cycle. P2764 P2764 P0721 P2764 P0721 P2764 P0721 P0722 P0721 P0721 P0721 P0722 P0721 P0721 P0721 P0721 P0721 P0721 P0721 P0721 P0722 P0716 P0717 Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by another output acceleration event and followed by another output acceleration event occurs when output acceleration event occurs when output shaft acceleration event occurs when event acceleration event occurs when event				Set fault pending when throttle	>= 70%		P2764	Case 2	
Report malfunction when fault pending exists continuously for a time >= 2 seconds. Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration >= 100 RPM/second Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event An output acceleration event An output acceleration event acce				• =					
Report malfunction when fault pending exists continuously for a time >= 2 seconds. Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration when fault pending exists continuously for a time >= 5 seconds. Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event curput acceleration event occurs when output acceleration event curput acceleration event and followed by another output acceleration event. An output acceleration event acceleration == 40 RPM/second for a time >= 4 seconds Report malfunction when fault pending DTCs for this drive cycle. P2761 P2764 P0721 P0722 P0717 U0100 Components powered AND Components powered AND Souther				net engine torque	>= 275 Nm.		P0722	Case 3	
pending exists continuously for a time >= 2 seconds. No Fault Pending DTCs for this drive cycle. P2761 Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration >= 100 RPM/second Report malfunction when fault pending exists continuously for a time >= 5 seconds. P0716 Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event corrupt acceleration event An output acceleration event corrus when output shaft acceleration for a time >= 4 seconds Battery Voltage > 9 V and < 18 V							P0716	10.5 s	
for a time >= 2 seconds. No Fault Pending DTCs for this drive cycle. P2761 Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration vent for a time >= 5 seconds. Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event cocurs when output acceleration event cocurs when output acceleration event occurs when output accelera							P0717		
Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration >= 100 RPM/second Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event acceleration event and output shaft acceleration => 4 seconds No Fault Pending DTCs for this drive cycle. P2763 P2764 P0721 P0722 P0716 P0717 U0100 Components powered AND acceleration event and followed by output deceleration event and acceleration event and followed by another output acceleration event. An output acceleration event and output shaft acceleration => 40 RPM/second For a time >= 4 seconds Battery Voltage > 9 V and < 18 V							U0100	100 ms	
Case 2: (High Acceleration condition) Set fault pending when output shaft acceleration >= 100 RPM/second Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event ocurs when output acceleration event county that acceleration event acceleration event. An output acceleration event county that acceleration event acceleration event acceleration event acceleration event. An output acceleration event accelerati				101 & 11110	2 0000111401	No Fault Pending DTCs for this			
condition) Set fault pending when output shaft acceleration >= 100 RPM/second Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event. An output acceleration event and for a time >= 4 seconds Report malfunction when fault portage. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event acceleration event and followed by another output acceleration event acce									
Set fault pending when output shaft acceleration >= 100 RPM/second Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event occurs when output shaft acceleration >= 40 RPM/second for a time >= 4 seconds Battery Voltage > 9 V and < 18 V							P2763		
Report malfunction when fault pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by acceleration event. An output acceleration event occurs when output shaft acceleration = 40 RPM/second for a time >= 4 seconds P0712 P0722 P0716 P0717 Case 3: (Accel/Decel/Accel condition) Components powered AND Components powered AND Scale Powered A				Set fault pending when output	>= 100 RPM/second		P2764		
pending exists continuously for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event occurs when output shaft acceleration = 4 seconds P0716 P0717 Case 3: (Accel/Decel/Accel U0100 Components powered AND Components powered AND Second For a time >= 4 seconds Battery Voltage > 9 V and < 18 V							P0721		
for a time >= 5 seconds. Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event occurs when output shaft acceleration = 40 RPM/second for a time >= 4 seconds P0716 P0717 Case 3: (Accel/Decel/Accel condition) Components powered AND Components powered AND Second acceleration output acceleration event and followed by another output acceleration event occurs when output shaft acceleration >= 40 RPM/second For a time >= 4 seconds Battery Voltage > 9 V and < 18 V							P0722		
Case 3: (Accel/Decel/Accel condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event occurs when output shaft acceleration >= 40 RPM/second for a time >= 4 seconds U0100 Components powered AND Components powered AND Battery Voltage > 9 V and < 18 V					>= 5 seconds.		P0716		
condition) Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event occurs when output shaft acceleration >= 40 RPM/second for a time >= 4 seconds Battery Voltage > 9 V and < 18 V									
Report malfunction when output acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event occurs when output shaft acceleration >= 40 RPM/second for a time >= 4 seconds Components powered AND Components powered AND Second				Case 3: (Accel/Decel/Accel			U0100		
acceleration event is followed by output deceleration event and followed by another output acceleration event. An output acceleration event occurs when output shaft acceleration >= 40 RPM/second for a time >= 4 seconds Battery Voltage > 9 V and < 18 V						Comments and AND			
output deceleration event and followed by another output acceleration event. An output acceleration event occurs when output shaft acceleration >= 40 RPM/second for a time >= 4 seconds Battery Voltage > 9 V and < 18 V				·		Components powered AND			
acceleration event. An output acceleration event occurs when output shaft acceleration >= 40 RPM/second for a time >= 4 seconds Battery Voltage > 9 V and < 18 V				output deceleration event and					
acceleration event occurs when output shaft acceleration >= 40 RPM/second for a time >= 4 seconds Battery Voltage > 9 V and < 18 V									
for a time >= 4 seconds Battery Voltage > 9 V and < 18 V									
				output shaft acceleration	>= 40 RPM/second				
5 . 0			for a time	>= 4 seconds	Battery Voltage	> 9 V and < 18 V			
An output deceleration event				An output deceleration event		Engine Speed	> 200 RPM and < 7500		
DDM				a a a u ma u u b a m a u tra u t a b a ft		Engine opecu	RPM		
acceleration is <=-40 RPM/second for a time >= 2.5 seconds.				acceleration is	<=-40 KPM/second	for	5 seconds		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Must be in forward range			
					TCC is off			
					TCC Slip	>=-20 RPM and <= 20 RPM		
					% Throttle	>= 25%		
					Net Engine Torque	>= 175 Nm		
					_ :	<= 3500 RPM <= 3500 RPM >= 100 RPM		
Pressure Switches								
Pressure Switch Solenoid 1	P0842	This test compares the					100 ms	A
Circuit Low		commanded valve position to the PS1 pressure switch feedback. (part of S1 valve integrity test)	Pending failure occurs when PS1 pressure switch indicates stroked for a time	> 0.08 seconds	S1 valve is destroked		25 ms	
			IF a main pressure dropout is suspected or detected, THEN time limit increases to times	0.125 seconds and 30 seconds, respectively	NOT Cold initialization unless transmission fluid temperature	> -25 deg. C		
			In response to the pending failure, S1 valve is retried by triggering S1 valve command to stroked and back to destroked. If PS1 pressure switch continues to indicate stroked, then one of three malfunction cases exists: For Case 1 (electrical malfunction), SS1 Circuit Low reports failure,		Shutdown is NOT in process			

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			For Case 2 (mechanical malfunction), Shift Solenoid 1 (SS1) Valve Performance – Stuck On reports failure, also. For Case 3 (intermittent malfunction), SS1 valve retry attempted AND PS1 pressure switch continues to indicate stroked.					
Shift Solenoid 1 (SS1) Valve Performance – Stuck Off		This test compares the change of state of the valve command to the change of state of the PS1 pressure switch feedback. (part of the S1 valve timeout test)	S1 valve is commanded from destroked to stroked and the PS1 pressure switch indication remains destroked for a time WITH transmission fluid temperature (Time increases as temperature decreases with maximum time at transmission fluid temperature)	>= 0 deg. C 12 seconds	S1 valve commanded from destroked to stroked.		5 seconds 25 ms	A
Shift Solenoid 1 (SS1) Valve Performance – Stuck On	P0752	This test compares the change of state of the valve command to the change of state of the PS1 pressure switch feedback. (part of the S1 valve timeout test).	S1 valve commanded from stroked to destroked and the PS1 pressure switch indication remains stroked for a time WITH transmission fluid temperature (Time increases as temperature decreases with maximum time at	>= 0 deg. C.	S1 valve changes from stroked to destroked		6.6 seconds 25 ms	А

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			transmission fluid temperature)	<= -40 deg. C				
Pressure Switch Solenoid 1 Circuit High	P0843	This test compares the commanded valve position to the PS1 pressure switch feedback. (part of S1 valve integrity test)	Pending failure occurs when PS1 pressure switch indicates destroked for a time		S1 valve is stroked		70 ms	A
			IF a main pressure dropout is suspected or detected, then time limit increases to times		NOT Cold initialization unless transmission fluid temperature		25 ms	
			In response to the pending failure, S1 valve is retried by triggering S1 valve command to destroked and back to stroked. If the PS1 pressure switch continues to indicate destroked, then one of three malfunction cases exists.		Shutdown NOT in process			
			For Case 1 (electrical malfunction), SS1 Control Circuit Low reports failure, also.	P0793				
			For Case 2 (mechanical malfunction), Shift Solenoid 1 (SS1) Valve Performance – Stuck Off reports failure, also.	P0751				
			For Case 3 (intermittent malfunction), S1 valve retry attempted AND	15 times				
			PS1 pressure switch continues to indicate destroked.					
Pressure Switch Solenoid 2 Circuit Low	P0847	This test compares the					40 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
		commanded valve position to the PS2 pressure switch feedback (part of the S2 valve	Pending failure occurs when PS2 pressure switch indicates stroked for a time	> 0.04004 seconds	S2 valve is destroked		25 ms	
		integrity test).	IF a main pressure dropout is suspected or detected, THEN time limit increases to times	0.04 seconds and 30 seconds, respectively.	NOT Cold initialization unless transmission fluid temperature			
			In response to the pending failure, S2 valve is retried by triggering S2 valve command to stroked and back to destroked. If PS2 pressure switch continues to indicate stroked, then one of three malfunction cases exists.		Shutdown is NOT in process			
			For Case 1 (electrical malfunction), SS2 Control Circuit Low reports failure, also.	P0976				
			For Case 2 (mechanical malfunction), Shift Solenoid 2 Valve Performance – Stuck On reports failure, also.	P0757				
			For Case 3 (intermittent malfunction), S2 valve retry attempted					
			PS2 pressure switch continues to indicate stroked.					
Shift Solenoid 2 Valve Performance – Stuck Off	P0756	This test compares the change of state of the valve command to the change of state of the PS2 pressure switch feedback (part of the S2 valve timeout test).	If the S2 valve is commanded from destroked to stroked and the PS2 pressure switch indication remains destroked for a time WITH transmission fluid temperature		S2 valve commanded from destroked to stroked.		5 seconds 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			(Time increases as temperature decreases with maximum time at transmission fluid temperature)					
Shift Solenoid 2 Valve Performance – Stuck On		This test compares the commanded valve position to the PS2 pressure switch feedback (part of the S2 valve timeout test).	S2 valve commanded from stroked to destroked and the PS2 pressure switch does not indicate destroked for a time WITH transmission fluid temperature (Time increases as temperature decreases with maximum time at transmission fluid temperature)	>= 0 deg. C. 15 seconds	S2 valve changes from stroked to destroked		6.4 seconds 25 ms	A
Pressure Switch Solenoid 2 Circuit High		This test compares the commanded valve position to the PS2 pressure switch feedback (part of the S2 valve integrity test).	IF a main pressure dropout is suspected or detected, THEN time limit increases to times In response to the pending failure, S2 valve is retried by triggering S2 valve command to destroked and back to stroked. If PS2 pressure switch continues to indicate destroked, then one of three malfunction cases exists. For Case 1 (electrical malfunction),	5 seconds and 30 seconds, respectively.)	S2 valve is stroked NOT Cold initialization unless transmission fluid temperature Shutdown NOT in process	> -25 deg. C	300 ms 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			For Case 2 (mechanical malfunction), Shift Solenoid 2 Valve Performance – Stuck Off reports failure, also.	P0756				
			For Case 3 (intermittent malfunction), S2 valve retry attempted AND PS2 pressure switch continues to indicate destroked.					
Pressure Switch Solenoid 3	P0872	This test compares the					20 ms	A
Circuit Low		commanded valve position to the PS3 pressure switch	Pending failure occurs when PS3 pressure switch indicates stroked for a time	> 0.0195 seconds	S3 valve is destroked		25 ms	
		feedback. (part of S3 valve integrity test)						
			IF a main pressure dropout is suspected or detected, THEN time limit increases to		NOT Cold initialization unless transmission fluid temperature			
			In response to the pending failure, S3 valve is retried by triggering S3 valve command to stroked and back to destroked. If PS3 pressure switch continues to indicate stroked, then one of three malfunction cases exists.		Shutdown is NOT in process			
			For Case 1 (electrical malfunction), SS3 Control Circuit Low reports failure, also.	P0979				
			For Case 2 (mechanical malfunction), Shift Solenoid 3 Valve Performance – Stuck On reports failure, also.	P0762				
			For Case 3 (intermittent malfunction), S3 valve retry attempted	2 times				

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			AND PS3 pressure switch continues to indicate stroked.					
Shift Solenoid 3 Valve Performance – Stuck Off		This test compares the change of state of the valve command to the change of state of the PS3 pressure switch feedback. (part of the S3 valve timeout test)	If the S3 valve is commanded from destroked to stroked and the PS3 pressure switch indication remains destroked for a time WITH transmission fluid temperature (Time increases as temperature decreases with maximum time at transmission fluid temperature)	>= 0 deg. C. 12 seconds	S3 valve commanded from destroked to stroked.		5 seconds 25 ms	А
Shift Solenoid 3 Valve Performance – Stuck On	P0762	This test compares the commanded valve position to the PS3 pressure switch feedback (part of the S3 valve timeout test).	S3 valve commanded from stroked to destroked and the PS3 pressure switch does not indicate destroked for a time WITH transmission fluid temperature (Time increases as temperature decreases with maximum time at transmission fluid temperature)	>= 0 deg. C. 15 seconds	S3 valve changes from stroked to destroked		6.6 seconds 25 ms	A
Pressure Switch Solenoid 3 Circuit High	P0873	This test compares the commanded valve position to the pressure switch PS3 feedback. (part of S3 valve integrity test)	Pending failure occurs when PS3 pressure switch indicates destroked for a time	> 0.30 seconds	S3 valve is stroked NOT Cold initialization unless transmission fluid temperature	> -25 deg. C	300 ms 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			IF a main pressure dropout is suspected or detected, THEN time limit increases to times	5 seconds and 30 seconds, respectively	Shutdown NOT in process			
			In response to the pending failure, S3 valve is retried by triggering S3 valve command to destroked and back to stroked. If PS3 pressure switch continues to indicate destroked, then one of the three malfunction cases exists.					
			For Case 1 (electrical malfunction), SS3 Control Circuit Low reports failure, also.	P0979				
			For Case 2 (mechanical malfunction), Shift Solenoid 3 Valve Performance – Stuck Off reports failure, also.	P0761				
			For Case 3 (intermittent malfunction), S3 valve retry attempted AND	2 times				
			PS3 pressure switch continues to indicate destroked.					
Pressure Switch	P0877	This test detects Reverse	Cond 1: (Forward range)		No MIL-on DTCs for this drive	D0077	3 s	A
Reverse Circuit Low		Pressure Switch closed indication by comparing the Reverse Pressure Switch state to the PRNDL switch	Case 1: (Forward range) For a sample size	100 samples	cycle.	P0878	50 ms	
		state.	(if dropouts detected, use sample size),	200 samples	No Fault Pending DTCs for this	P0708 P0708		
				P, D1, D2, D3, D4, D5, D6, T8, or T4	drive cycle			

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Engine is Running			
			AND					
			RPS indicates		Components powered AND			
				>= 1 seconds	Battery Voltage	> 9 V and < 18 V		
			(if dropouts detected, use time).	30 seconds				
					Engine Speed	> 200 RPM and < 7500		
			Case 2: (Range indefinite)		for	RPM 5 seconds		
			For a sample size,	20 samples		0 00001140		
			net engine torque		Transmission Fluid Temperature	>= 0 deg. C		
			AND					
			PRNDL is	indefinitely D3 or another forward range	Hydraulic System is Pressurized			
			for a time	> 1 second				
					Reverse Pressure Switch State			
					indicates			
Pressure Switch	P0878	This test detects the Reverse					Case 1:	A
Reverse Circuit High		Pressure switch being stuck in the	For Case 1: (RPS State and		For All Cases:		3 s	
		open position by comparing to the PRNDL switch state and detects	PRNDL State do not agree) For sample size	40 comples	Transmission Fluid Temperature	s – O dog. C	Case 2:	
		the Reverse Pressure switch			Transmission Fluid Temperature	>= 0 deg. C	Case 2.	
		stuck open at shutdown.	PRNDL is	REVERSE			60 s	
			AND		For Case 1: (RPS State and PRNDL State do not agree)		50 ms	
			RPS indicates		PRINDL State do not agree)			
			after a time	>= 1 second	No MIL-on DTCs for this drive	P0877		
			For Case 2: (RPS Shutdown		cycle	P0878		
			Test)					
			If RPS indicates			P0708		
				40	No Ferrit Develope DTO ferritis	D0700		
			for a time	> 40 seconds	No Fault Pending DTC for this			
			for a time at transmission fluid temperature		drive cycle.			
					drive cycle.			
			at transmission fluid temperature	0 deg. C.	drive cycle.			
			at transmission fluid temperature This time varies with transmission fluid temperature,	0 deg. C.	drive cycle.			
			at transmission fluid temperature This time varies with transmission fluid temperature, from time	0 deg. C. 25 seconds	drive cycle. Battery Voltage	> 9 V and < 18 V		
			at transmission fluid temperature This time varies with transmission fluid temperature, from time at transmission fluid temperature	0 deg. C. 25 seconds	drive cycle.	> 9 V and < 18 V		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			at transmission fluid temperature	< -20 deg. C.	For Case 2: (RPS Shutdown Test) Ignition Key State is Engine Stopped or Stalled End of Trip timer Engine had been cranking or running this drive cycle Engine speed Turbine speed Output speed	>= 5 seconds < 50 RPM < 50 RPM		
On-coming/Off- going Ratio								
Pressure Control Solenoid 1 Controlled Clutch Stuck Off	P2723	This test determines if the oncoming clutch energized by Pressure Control Solenoid 1 engages during a forward range shift.	Pending failure occurs when accumulated event timer (For rough road conditions, use) Timer accumulates when transmission is shifting, output speed AND commanded gear slip speed (For rough road conditions, use) In response of pending failure, a diagnostic response range is commanded. During this command, this test fails if ABS(Converter slip) for sample size	2 seconds >= 60 RPM > 75 RPM 150 RPM. >= 230 RPM	No MIL-on DTCs for this drive cycle. Output Speed Turbine Speed Hydraulic System Pressurized Normal powertrain shutdown not in process Normal or Cold powertrain initialization is complete No range switch response active No Cold Mode operation No abusive garage shift to 1st range detected	P0722 P0716 P0717 P0877 P0878 >= 125 RPM >= 60 RPM	2.25 s 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					On-coming clutch control enabled Power downshift abort to previous range NOT active			
Pressure Control Solenoid 2 Controlled Clutch Stuck Off		This test determines if the oncoming clutch energized by Pressure Control Solenoid 2 engages during a forward range shift.	Pending failure occurs when accumulated event timer (For rough road conditions, use) Timer accumulates when transmission is shifting, output speed AND commanded gear slip speed (For rough road conditions, use) In response of pending failure, a diagnostic response range is commanded. During this command, this test fails if ABS(Converter slio) for sample size	2 seconds >= 60 RPM > 75 RPM 150 RPM. >= 230 RPM	No MIL-on DTCs for this drive cycle. Output Speed Turbine Speed Hydraulic System Pressurized Normal powertrain shutdown not in process Normal or Cold powertrain initialization is complete No range switch response active No Cold Mode operation No abusive garage shift to 1st range detected On-coming clutch control enabled Power downshift abort to previous range NOT active	P0722 P0716 P0717 P0877 P0878 >= 125 RPM >= 60 RPM	2.25 s 25 ms	A
Pressure Control Solenoid 1 Controlled Clutch Stuck On	P2724	This test determines if the off- going clutch energized by Pressure Control solenoid 1 remains engaged during a forward range shift.	Accumulated fail timer for forward range upshift; OR accumulated fail timer for direction change shifts;	>= 3.0 seconds	No MIL-on DTCs for this drive cycle.	P0721 P0722 P0716 P0717	3 s 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			OR accumulated fail timer	>= 0.500 seconds		P0877		
			for forward range closed throttle			P0878		
			downshift; OR accumulated fail timer	>= 1.0 second	No Fault Pending DTC for this	P0717		
					drive cycle.			
			for forward downshifts above closed throttle.					
			Good inollie.		Output Speed	>= 200 RPM		
			Fail timer accumulates during	<= 25 RPM	Turbine Speed	>= 200 RPM		
			range to range shifts when attained gear slip speed					
			andinion godi one opoou		Normal powertrain shutdown not			
					in process Normal or Cold powertrain			
					initialization is complete			
					No range switch response active			
					No Cold Mode operation			
					No abusive garage shift to 1st			
Pressure Control Solenoid 2	P0777	This test determines if the off-			range detected		3 s	A
Controlled Clutch		going clutch energized by						
Stuck On		Pressure Control solenoid 2 remains engaged during a forward	Accumulated fail timer	>= 0.2998 seconds	No MIL-on DTCs for this drive	P0721	25 ms	
		range shift.			cycle.			
			for forward range upshift;			P0722		
			OR accumulated fail timer	>= 3.0 seconds		P0716		
			for direction change shifts;	. 0 500 accords		P0717		
			OR accumulated fail timer			P0877 P0878		
			for forward range closed throttle downshift;			PU018		
			OR accumulated fail timer	>= 1.0 second	No Fault Pending DTC for this			
			for forward downshifts above		drive cycle.			
			closed throttle.		0	000 DDM		
			Foil times a communicate - dissister	. OF DDM	Output Speed			
			Fail timer accumulates during range to range shifts when	<= 20 KPW	Turbine Speed	>= 200 KPM		
			attained gear slip speed		Name of a superior			
					Normal powertrain shutdown not in process			
					Normal or Cold powertrain			
					initialization is complete No range switch response active			
					No Cold Mode operation			

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
PRNDI /IMS					No abusive garage shift to 1st range detected			
PRNDL/IMS Transmission Range Sensor High Input	P0708	This test monitors the transmission range switch for invalid input conditions and parity errors occurring over consecutive ianition cycles.	Illegal electrical state for a time For Case 2 (Long-term Parity): There are 3 counters for long-term parity. These counters are updated at the end of each drive cycle, immediately prior to TCM shutdown. For Counter 1, increment counter IF Parity Error Detected; decrement counter IF No Parity Error Detected AND No Motion Detected. IF Counter 1 THEN report failure. For Counter 2, increment counter IF Parity Error Detected AND (No Valid Drive Detected OR No Valid Park/Neutral Detected) AND Motion Detected; decrement counter IF No Parity Error Detected AND Valid Park/Neutral Detected AND Valid Drive Detected AND Motion Detected.	>= 15 counts	Engine Speed		Case 1: 1 s Case 2: 5 th occurrence 100 ms	A
			IF Counter 2, THEN report failure.	>= 5 counts				

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			For Counter 3, increment Counter 3 IF Parity Error Detected while in Reverse AND No Valid Reverse Detected AND Motion Detected. Decrement Counter 3 IF No Parity Error Detected AND Valid Reverse Detected AND Motion Detected. IF Counter 3, THEN report failure. Where Parity Error Detected is defined as a failure of the 4-bit PRNDL input such that the sum of those					
			bits yields an odd result for a time; Motion Detected is defined as output speed for a time; Valid Drive Detected is defined as the 4-bit DL indicates Valid Drive for a time; Valid Park Detected is defined as the 4-bit PRNDL indicates Valid Park for a time	>= 10 seconds >= 3 seconds >= 0.2 seconds				
			Valid Neutral Detected is defined as the 4-bit PRNDL indicates Valid Neutral	>= 15 seconds; >= 0.2 seconds <= 20 RPM OR				
Transmission Range Sensor Circuit Range/Performance		This test monitors the transmission range switch inputs at engine start to determine that it is indicating a valid starting position (Park or Neutral).	For sample size, PRNDL C input is closed OR PRNDL P is NOT closed.	•	No MIL-on DTC for this drive cycle. Battery voltage		200 ms 25 ms	В

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Powertrain State is READY or CRANKING Engine speed	> 100 RPM and < 350		
					3 - 4	RPM.		
Solenoid Electrical								
Main Modulation/Line Pressure Control Solenoid Control Circuit Open	P0960	This test detects solenoid electrical open circuit malfunctions.	Fault pending is set a single hardware fault occurrence. IF hardware fault is present for a sample size THEN initiate intrusive test by		No MIL-on DTC for this drive cycle	P0657 P0658 P0659	5075 ms 25 ms	A
			opening low side driver. IF engine is cranking or running and intrusive test indicates no short to ground exists for a sample size. THEN report malfunction.	>= 3 samples	Components powered			
					Battery Voltage High side driver 1 enabled	> 9 V and < 18 V		
Main Modulation/Line Pressure Control Solenoid Control Circuit Low	P0962	This test detects solenoid electrical ground circuit malfunctions.	Fault pending is set at single electrical hardware fault to ground occurrence. IF the electrical open test is enabled and an electrical hardware fault to ground is present for a sample size. THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and hardware fault is present for a sample size.	>= 200 samples	No MIL-on DTC for this drive cycle	P0657 P0658 P0659	5050 ms 25 ms	A
			THEN report malfunction.		Components powered AND Battery Voltage High side driver 1 enabled	> 9 V and < 18 V		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Main Modulation/Line Pressure Control Solenoid Control Circuit High	P0963	This test detects solenoid electrical short to power circuit malfunctions.	Short to power is present for a sample size		No MIL-on DTC for this drive cycle	P0657 P0658 P0659	75 ms 25 ms	А
					Components powered AND Battery Voltage			
Dressure Control Solonoid 2	D0064	This test detects coloneid			High side driver 1 enabled		225 mg	Λ
Pressure Control Solenoid 2 Control Circuit Open	P0964	This test detects solenoid electrical open circuit malfunctions.	Fault pending is set a single hardware fault occurrence. IF hardware fault is present for a sample size THEN initiate intrusive test by	>= 6 samples		P2669 P2670 P2671	225 ms 25 ms	A
			opening low side driver. IF engine is cranking or running and intrusive test indicates no short to ground exists for a sample size.		Components powered			
			THEN report malfunction.		AND Battery Voltage	> 9V and < 18V.		
					Extended cranking for a time OR battery voltage			
					OR battery voltage			
					High side driver 2 enabled			
Pressure Control Solenoid 2 Control Circuit Low		This test detects solenoid electrical ground circuit malfunctions.	Fault pending is set at single electrical hardware fault to ground occurrence.		No MIL-on DTC for this drive cycle		200 ms 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS		TIME REQUIRED	MIL ILLUM.
			IF the electrical open test is enabled and an electrical hardware fault to ground is oresent for a sample size. THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and hardware fault is present for a sample size. THEN report malfunction.		Components powered AND Battery Voltage Extended cranking for a time OR battery voltage OR battery voltage High side driver 2 enabled	> 9V and < 18V. <= 4 seconds <= 7 V		
Pressure Control Solenoid 2 Control Circuit High	P0967	This test detects solenoid electrical short to power circuit malfunctions.	Short to power is present for a sample size	3 consecutive samples	No MIL-on DTC for this drive cycle Components powered AND Battery Voltage Extended cranking for a time OR battery voltage OR battery voltage	P2670 P2671 P0967 > 9V and < 18V. <= 4 seconds <= 7 V	75 ms 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					High side driver 2 enabled			
Pressure Control Solenoid 1 Control Circuit Open	P2727	This test detects solenoid electrical open circuit malfunctions.	Fault pending is set a single hardware fault occurrence. IF hardware fault is present for a sample size THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and intrusive test indicates no short to ground exists for a sample size. THEN report malfunction.	>= 5 samples	No MIL-on DTC for this drive cycle Components powered AND Battery Voltage Extended cranking for a time OR battery voltage OR battery voltage High side driver 1 enabled	P0658 P0659 > 9V and < 18V. <= 4 seconds <= 7 V >= 10 V	200 ms 25 ms	A
Pressure Control Solenoid 1 Control Circuit Low	P2729	This test detects solenoid electrical ground circuit malfunctions.	Fault pending is set at single electrical hardware fault to ground occurrence. IF the electrical open test is enabled and an electrical hardware fault to ground is present for a sample size. THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and hardware fault is present for a sample size. THEN report malfunction.	>= 5 samples	No MIL-on DTC for this drive cycle Components powered AND Battery Voltage	P0658 P0659	175 ms 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Extended cranking for a time OR battery voltage OR battery voltage	<= 7 V >= 10 V		
Pressure Control Solenoid 1	P2730	This test detects solenoid			High side driver 1 enabled		75 ms	A
Control Circuit High		electrical short to power circuit malfunctions.	Short to power is present for a sample size	3 consecutive samples	No MIL-on DTC for this drive cycle Components powered AND Battery Voltage Extended cranking for a time OR battery voltage	P0658 P0659 P2730 > 9V and < 18V. <= 4 seconds	25 ms	
					OR battery voltage High side driver 1 enabled	>= 10 V		
Shift Solenoid 1 Control Circuit Open	P0972	This test detects solenoid electrical open circuit malfunctions.	Fault pending is set a single hardware fault occurrence. IF hardware fault is present for a sample size THEN initiate intrusive test by opening low side driver.				325 ms 25 ms	А

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			IF engine is cranking or running and intrusive test indicates no short to ground exists for a sample size. THEN report malfunction.	>= 10 samples	Components powered AND Battery Voltage			
				>= 3 samples	High side driver 2 enabled			
Shift Solenoid 1 Control	P0973	This test detects solenoid			rigit side ditvet 2 eriabled		300 ms	A
Circuit Low	F0973	electrical ground circuit malfunctions.	Fault pending is set at single electrical hardware fault to ground occurrence.		No MIL-on DTC for this drive cycle	P2669	25 ms	^
			IF the electrical open test is enabled and an electrical hardware fault to ground is	>= 10 samples		P2670		
			present for a sample size. THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and hardware fault is present for a			P2671		
			sample size, THEN report malfunction.		Components powered AND			
					Battery Voltage	> 9V and < 18V.		
					High side driver 2 enabled			
Shift Solenoid 1 Control Circuit High	P0974	This test detects solenoid electrical short to power circuit malfunctions.	Short to power is present for a sample size	3 consecutive samples	No MIL-on DTC for this drive cycle	P2670	75 ms 25 ms	A
						P2671 P0974		
					AND Battery Voltage	> 9V and < 18V.		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					High side driver 2 enabled			
Shift Solenoid 2 Control Circuit Open	P0975	This test detects solenoid electrical open circuit malfunctions.	Fault pending is set a single hardware fault occurrence. IF hardware fault is present for a sample size THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and intrusive test indicates no short to ground exists for a sample size. THEN report malfunction.	>= 10 samples >= 3 samples	No MIL-on DTC for this drive cycle Components powered	P2670 P2671	325 ms 25 ms	A
Shift Solenoid 2 Control Circuit Low	P0976	This test detects solenoid electrical ground circuit malfunctions.	Fault pending is set at single electrical hardware fault to ground occurrence.		High side driver 2 enabled No MIL-on DTC for this drive cycle	P2669	300 ms 25 ms	A
			IF the electrical open test is enabled and an electrical hardware fault to ground is present for a sample size. THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and hardware fault is present for a sample size, THEN report malfunction.		Components powered AND Battery Voltage			
Shift Solenoid 2 Control Circuit High	P0977	This test detects solenoid electrical short to power circuit malfunctions.	Short to power is present for a sample size	3 consecutive samples	High side driver 2 enabled No MIL-on DTC for this drive cycle		75 ms 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE		ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Components powered AND			
Shift Solenoid 3 Control Circuit Low	P0979	This test detects solenoid electrical ground circuit malfunctions.	Fault pending is set a single hardware fault occurrence. If engine is cranking or running and hardware fault is present for sample size, then report malfunction.		Components powered AND Battery Voltage High side driver 2 enabled Commanded gear	P2669 P2670 P2671 P0979 P0980 > 9V and < 18V.	250 ms 25 ms	A
Shift Solenoid 3 Control Circuit High	P0980	This test detects solenoid electrical short to power circuit malfunctions.	Short to power is present for a sample size	3 consecutive samples	No MIL-on DTC for this drive cycle Components powered	P2669 P2670 P2671 P0980	75 ms 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					High side driver 2 enabled Commanded gear	NOT Reverse Trim, NOT 5 th , NOT 6 th		
Actuator Supply 1 (HSD1) Voltage Open		This test detects if the voltage measured at the HSD1 detection circuit shows that multiple low side detection circuits indicate open, but the high side detection circuit indicates high voltage.	Report malfunction when the engine is running or cranking AND the number of failure events.	>= 3.	No MIL-on DTCs for this drive cycle		75 ms 25 ms	A
			A failure event occurs when the number of failed solenoids connected to HSD1 AND	>= 2	HSD1 is commanded ON.			
			HSD1 voltage	>= 6V	Components powered AND			
						> 9V and < 18V.		
					If engine is cranking, then crank time OR			
					battery voltage	> 10V		
Actuator Supply 1 (HSD1) Voltage Low	P0658	This test detects low voltage when high voltage is expected indicating a short to ground at the circuit.	Report malfunction when short to ground is detected for a number of events AND the engine is running or		No MIL-on DTC for this drive cycle	P0658	75 ms 25 ms	A
			cranking-		HSD1 is commanded ON.			
					Components powered			
					Battery Voltage	> 9V and < 18V.		
					If engine is cranking, then crank time OR			
					battery voltage	> 10V		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Actuator Supply 1 (HSD1) Voltage High	P0659	This test detects if the voltage measured at the HSD 1 detection circuit indicates high during initialization (when the circuit is off)	During initialization, report malfunction when the number of failure events A failure event occurs when HSD1 voltage		During initialization		75 ms 25 ms	A
Actuator Supply2 (HSD2) Voltage Open	P2669	This test detects if the voltage measured at the HSD2 detection circuit shows that multiple low side detection circuits indicate open, but the high side detection circuit indicates high voltage.	Report malfunction when the engine is running or cranking AND the number of failure events. A failure event occurs when the number of failed solenoids connected to HSD1	>= 2	No MIL-on DTC for this drive cycle HSD2 is commanded ON.	P2669	75 ms 25 ms	А
			AND HSD1 voltage		Components powered AND Battery Voltage If engine is cranking, then crank time OR battery voltage			
Actuator Supply2 (HSD2) Voltage Low		This test detects low voltage when high voltage is expected indicating a short to ground at the circuit.	Report malfunction when short to ground is detected for a number of events AND the engine is running or cranking-	>= 3 times	No MIL-on DTC for this drive cycle HSD2 is commanded ON. Components powered AND Battery Voltage If engine is cranking, then crank	> 9V and < 18V.	75 ms 25 ms	A

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					OR battery voltage	> 10V		
Actuator Supply 2 (HSD2) Voltage High	P2671	This test detects if the voltage measured at the HSD 2 detection circuit indicates high during initialization (when the circuit is off)	During initialization, report malfunction when the number of failure events A failure event occurs when HSD1 voltage	>= 6V	During initialization		75 ms 25 ms	A
TCC Pressure Control Solenoid Control Circuit Open	P2761	This test detects torque converter solenoid electrical open circuit malfunctions.	Fault pending is set a single hardware fault occurrence. IF hardware fault is present for a sample size THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and intrusive test indicates no short to ground exists for a sample size. THEN report malfunction.	>= 120 samples	Components powered	P0658 P0659 > 9V and < 18V	3075 ms 25 ms	В
TCC Pressure Control Solenoid Control Circuit High	P2763	This test detects solenoid electrical short to power circuit malfunctions.	Short to power is present for a sample size		Components powered AND	P0658 P0659 P2763	75 ms 25 ms	В

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
TCC Pressure Control Solenoid Control Circuit Low	P2764	This test detects solenoid electrical ground circuit malfunctions.	Fault pending is set at single electrical hardware fault to ground occurrence. IF the electrical open test is enabled and an electrical hardware fault to ground is present for a sample size. THEN initiate intrusive test by opening low side driver. IF engine is cranking or running and hardware fault is present for a sample size, THEN report malfunction.	>= 120 samples	No MIL-on DTC for this drive cycle Components powered AND Battery Voltage High side driver 1 enabled	P0657 P0658 P0659 > 9V and < 18V	3050 ms 25 ms	В
Miscellaneous								
4 Wheel Drive Low Switch Circuit Malfunction		This test detects abnormal conditions for the four-wheel drive indication switch input by comparing switch state range to calculated range.	For Case 1: (Stuck Off) This test fails when, for number of occurrences, the transfer case 4WD switch indicates High range and the calculated transfer case range is Low range for a time. For Case 2 (Stuck On) This test fails when,for number of occurrences, the transfer case 4WD switch indicates Low range and the calculated transfer case range is High range for a time	>= 5 seconds >= 200 occurrences	No MIL-on DTCs for this drive cycle. No Fault Active DTCs for this drive cycle No Fault Pending DTCs for this drive cycle	P0721 P0722 P2771 P0721 P0722 P0721 P0722	9 sec 25 ms	В

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Transmission fluid temperature Engine Speed Shift complete AND range attained	deg. C > 200 RPM and < 7500 RPM		
Transmission Component Slipping	P0894	This test detects the number of turbine slip events during the Neutral Locked Turbine (NLT) request from engine controller.	For this ignition cycle, when the number of Neutral Locked Turbine (NLT) Slip events. then report fail. Where number of NLT Slip events for this ignition cycle = Number of accumulated NLT Slip events from previous ignition cycles. And, where number of accumulated NLT Slip events is incremented when commanded gear or attained gear is NLT AND turbine speed for a time		Engine Speed		9 sec 25 ms	В
Ignition Switch Run/Start Circuit	P2534	Out of range low.	Ignition voltage for a time	< 5 volts >= 30 seconds	Engine Speed		30 sec 100 ms	A
GMLAN Bus Reset Counter Overrun	U0073	This test detects if the GMLAN bus is off for a calibration duration.	CANB_bus is off for a time	>= 3 seconds	Components powered		3 sec 100 ms	В

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE		ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Engine Speed	> 9 V and < 18 V > 200 RPM and < 7500 RPM 5 seconds		
GMLAN ECM Controller State of Health Failure	U0100	This test detects CAN (GMLAN) bus failures by detecting State of Health failures in GMLAN message \$191 from ECM.	Case 1 (x out of y): The failure counter increments when a State of Health (SOH) failure is detected. A SOH failure occurs when message is missing. When the failure counter is a number of samples		Components powered AND Battery Voltage	> 9 V and < 18 V	700 ms	В
			out of a number of samples, report fail. Case 2 (intermittent): Report fail, when the failure counter and number of samples	> 0 counts < 5 samples	for Ignition Key State		For Case 2: 3.5 seconds 100 ms	
			out of number of samples	7 samples 5 consecutive sample windows	GMLAN message \$191 is received from ECM Enable criteria met for a time			
Upshift Switch Circuit	P0815	This test detects the upshift switch ON.	AND upshift switch state	>= 2.5 seconds ON >= 3 seconds.	Engine Speed	P0708 > 9 V and < 18 V	Case 1: 5.5 seconds Case 2: 602.5 seconds 100 ms	C

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			AND upshift switch state					
Downshift Switch Circuit		This test detects the downshift switch ON.	Case 1 (PRNDL state is N, P or R): PRNDL state is unchanged for a time AND downshift switch state for a time. Case 2 (PRNDL state is forward range): PRNDL state is unchanged for a time AND downshift switch state	>= 2.5 seconds ON >= 3 seconds. >= 2.5 seconds	Engine Speed	P0708 > 9 V and < 18 V	Case 1: 5.5 seconds Case 2: 602.5 seconds	С
Up and Down Shift Switch Circuit		This test detects upshift/downshift switch circuit at an illegal state.	Switch state is ILLEGAL for a time	>= 10 seconds.	Engine Speed		10 seconds	С