COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA		THRESHOLD) VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Transmission Control Module (TCM)	P0601	Transmission Control Module Read Only Memory (ROM)	Incorrect program/calibrations checksum	=	TRUE		None		Rom Test > 5 Fail Counte r	One Trip
						Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Transmission Control Module (TCM)	P0602	Transmission Control Module Not Programmed	Non-Programmed TECHM Failure	=	TRUE		None			One Trip
						Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Transmission Control Module (TCM)	P0603	Transmission Control Module Long-Term Memory Reset	Non-volatile memory (static or dynamic) checksum failure	=	TRUE		None			One Trip
						Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Transmission Control Module (TCM)	P0604	Transmission Control Module Random Access Memory	RAM Read/Write Failure (Single Word)	=	TRUE		None		>= 5 Count	One Trip
						Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Transmission Control Module (TCM)	P062F	Transmission Control Module Long Term Memory Performance	TCM Non-Volatile Memory bit Incorrect flag	=	TRUE		None			One Trip

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
				Disabl Conditions		TCM: None ECM:		
Transmission Range Switch (Neutral Safety Back Up Switch NSBU)	P0705	NSBU ABCP inputs indicate illegal position	ABCP Inputs	= 0000 or 0001	Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for	>= 8 V <= 18 V >= 500 RPM <= 6500 RPM	>= 60 sec	Two Trips
				Disabl Conditions	Engine Speed Status Valid e MIL not Illuminated for DTC's:			
Transmission Fluid Temperature Sensor (TFT)	P0711	Trans Fluid Temp Sensor Circuit Range/Performance	<u>Fail</u> <u>Case 1</u> TFT Delta from Startup	<= 2 C°		P0345, P0346, P0365, P0396, P0390, P0391	Fail	Special No Trip
					Vehicle Speed Vehicle Speed Above min for TCC Slip TCC Slip above min for Transmission Fluid Temperature Lo Transmission Fluid Temperature	>= 300 Sec >= 120 RPM >= 300 Sec	(Sec)	
			<u>Fail</u> <u>Case 2</u> TFT Delta from startup	< 2 C°	High Engine Coolant Temp Engine Coolant Temp Delta Vehicle Speed Vehicle Speed Above min for TCC Slip	>= 70 C° >= 55 C° >= 8 Kph >= 300 Sec	Fail >= 80 Time (Sec)	

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABI	E CONDI	TIONS	TIME REQUIRED	MIL ILLUM
					TCC Slip above min for	>=	0	Sec		
					Transmission Fluid Temperature	>=	129	C°		
					Transmission Fluid Temperature	<=	149	C°		
					Engine Coolant Temp	>=	70	C°		
					Engine Coolant Temp Delta from startup	>=	55	C°		
			<u>Fail</u> <u>Case 3</u>						Fail	
			TFT Delta	>= 20 C°					>= 14 Count (100m loop)	s
									Sampl	e
									< 7 Time (Sec)	
			<u>Fail</u> Transmission Fluid <u>Case 4</u> Temperature	<= 20 C°					>= Refer to Time	
					Engine Torque Lo	>=	50	N*m	(Sec)	
					Engine Torque Hi Throttle Position Lo	<= >=	1492 8.0002	N*m Pct		
					Throttle Position Hi	<=	89.999	Pct		
					Vehicle Speed Lo Vehicle Speed Hi	>= <=	8 511	Kph Kph		
					Engine Speed Lo	>=	500	RPM		
					Engine Speed Hi Engine Coolant Lo	<= >=	6500 -39	RPM C°		
					Engine Coolant Hi	<=	149	C°		
					Engine Torque Signal Valid Throttle Position Signal Valid	=	TRUE TRUE			
					Engine Speed Status Valid	=	TRUE			
					P0711 Common Enable Conditions					
					Transmission Fluid Temperature	>=	-39	C°		
					Transmission Fluid Temperature	<=	149	C°		
					HI Ignition Voltage Ignition Voltage	>= <=	8 18	V V		
					ignillon voltage	\=	Refer	V		
					Engine speed	>=	to	RPM		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
				Disable Conditions:	Engine speed above min for Engine speed above min for Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid Engine Coolant Sensor Signal Valid MIL not Illuminated for DTC's:	Table 5 >= 5 Sec >= 500 RPM <= 6500 RPM >= 5 Sec = TRUE = TRUE Boolea n TCM: P0716, P0717, P0722,		
						P0723, P0742, ECM: P0101, P0102, P0103, P0106, P0107, P01108, P01117, P01118, P01125, P0128, P0171,		
						P0172, P0174, P0175, P0201, P0202, P0203, P0204, P0205, P0206, P0207, P0208, P0300, P0301,		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD	VALUE	SECONDARY PARAMETERS		E CONDI	TIONS	TIME	E REQI	JIRED	MIL ILLUM.
Transmission Fluid Temperature Sensor (TFT)	P0712	Transmission fluid temperature thermistor failed at a high temperature (short to ground).	TFT resistance	<= 48	Ω Disable Conditions:	Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid MIL not Illuminated for DTC's:	<= >= <= >= = TCM: None ECM: P0335, P0336,	8 18 500 6500 5 TRUE	V V RPM RPM Sec	>=	12	Fail Time (Sec)	Special No Trip
Transmission Fluid Temperature Sensor (TFT)	P0713	Transmission fluid temperature thermistor failed at a low temperature (open or short to power).	TFT resistance	>= 97292	Ω		P0340, P0345, P0346, P0365, P0366, P0390, P0391			>=	80	Fail Time (Sec)	Special No Trip
		Dowel J.				Output Speed Output Speed above min for TCC Slip speed	>= >= >=	65.625 200 120	RPM Sec RPM				

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VA	LUE	SECONDARY PARAMETERS	ENABLE	E CONDI	TIONS	TIME REQ	UIRED	MIL ILLUM.
Transmission Input Speed Sensor (TISS)	P0716	Input Speed Sensor Performance	Input speed drop ∆		Disable conditions:	Ignition Voltage Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed Engine speed Engine speed Status Valid MIL not Illuminated for DTC's: Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Torque Engine Torque Engine Torque Engine Torque Engine Torque Engine Torque Signal Valid Vehicle Speed Input Speed min Input Speed above min for Positive ISS △ Positive ISS △ less than min for Throttle Throttle Position Signal Valid	>=	8 18 500 6500 5 TRUE 8 18 500 6500 5 TRUE 7 18 18 500 6500 5 TRUE 50 1492 TRUE 16 1050 2 8.0002 TRUE	sec > > RPM RPM Sec N*m KPH RPM Sec RPM Sec Pct	>= 3.25	sec	Two Trips

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
				Disable	MIL not Illuminated for DTC's:	TCM:		
				Conditions:		P0717,		
						P0722,		
						P0723,		
						P0752,		
						P0973,		
						P0974		
						ECM:		
						P0101,		
						P0102,		
						P0103,		
						P0106,		
						P0107,		
						P0108,		
						P0171,		
						P0172,		
						P0174,		
						P0175,		
						P0201,		
						P0202,		
						P0203,		
						P0204,		
						P0205,		
						P0206,		
						P0207,		
						P0208,		
						P0300,		
						P0301,		
						P0302,		
						P0303,		
						P0304,		
						P0305,		
						P0306,		
						P0307,		
						P0308,		
						P0335,		
						P0336,		
						P0340,		
						P0345,		
						P0346,		
						P0365,		
						P0366,		
						P0390,		
						P0391,		
						P0401,		
						P042E		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA		THRESHO	LD VALUE	SECONDARY PARAMETERS	ENABL	E COND	ITIONS	TIM	IE REQ	UIRED	MIL ILLUM.
Transmission Input Speed Sensor (TISS)	P0717	Input Speed Sensor Circuit Low Voltage	input speed	v	50	RPM Disable Conditions:		<= >= <= >= = = >= = >=		N*m N*m	>=	4.5	Sec	Two Trips

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
						P0302, P0303, P0304, P0305, P0306, P0307, P0308, P0335, P0336, P0340, P0345, P0346, P0365, P0390, P0391, P0401,		
Transmission Output Speed Sensor (TOSS)	P0722	Output Speed Sensor Circuit Low Voltage	TOSS	<= 50 rpm	Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed Engine Speed Engine Speed Status Valid Engine Torque min & Range= R or D Engine Torque max & Range= R or D Engine Torque min & Range= P/N Engine Torque max & Range= P/N Engine Torque Signal Valid Throttle Position Throttle Position Signal Valid Input Speed Input Speed TCC Slip Trans Temp	<pre><= 18 volts >= 500 RPM <= 6500 RPM >= 5 Sec = TRUE >= 50 N*m <= 1492 N*m >= 1492 N*m <= 1492 N*m <= TRUE >= TRUE >= 8.0002 % = TRUE >= 1500 RPM <= 6500 RPM >= -20 RPM</pre>	>= 4.5 Sec	Two Trips

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
				Disable	MIL not Illuminated for DTC's:	TCM:		
				Conditions:		P0716,		
						P0717, P0722		
						P0722		
						ECM:		
						P0101,		
						P0102,		
						P0103,		
						P0106, P0107,		
						P0107, P0108,		
						P0171,		
						P0172,		
						P0174,		
						P0175,		
						P0201, P0202,		
						P0202, P0203,		
						P0204,		
						P0205,		
						P0206,		
						P0207,		
						P0208, P0300,		
						P0300, P0301,		
						P0302,		
						P0303,		
						P0304,		
						P0305,		
						P0306, P0307,		
						P0307, P0308,		
						P0335,		
						P0336,		
						P0340,		
						P0345,		
						P0346,		
						P0365, P0366,		
						P0390,		
						P0391,		
						P0401,		
						P042E		
Transmission Output Speed	P0723	Output Speed Sensor Circuit	Output Speed Deer t	> 393.5 RPM			>= 2.0E C	Two Trips
Sensor (TOSS)	P0/23	Intermittent	Output Speed Drop Δ	> 393.5 RPM			>= 3.25 Sec	
					Ignition Voltage	>= 8 volts		
		1			Ignition Voltage	<= 18 volts		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE COND	ITIONS	TIME RI	EQUIRED	MIL ILLUM.
				Disable Conditions:		= TRUE >= 6 >= 6 < 500 >= 2 > 327.75 >= 2 <= 163.75 >= 2	Sec			
Torque Converter Clutch (TCC)	P0741	TCC System Stuck OFF	TCC Slip Error	>= Refer to table 3 RPM	Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid Engine Torque Engine Torque Trottle Position Trottle Position 2nd Gear Ratio 3rd Gear Ratio 3rd Gear Ratio	>= 8 <= 18 >= 500 <= 6500 >= 5 = TRUE >= 50 <= 1492 >= 8.0002 <= 89.999 >= 1.5122 <= 1.7397 >= 0.9301	% % Ratio Ratio	>= 8 >= 2	Sec Count	Two Trips

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
					4th Gear Ratio 4th Gear Ratio TFT TFT TCC Capacity TCC Capacity Timer TCC Mode PTO Active Engine Torque Status Valid Throttle Position Signal Valid If 4L80E Cmd Gear	<pre><= 0.7288 Ratio >= 20</pre>		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P0742, P0842, P0843, P2763, P2764, P2769, P2770		
						ECM: P0101, P0102, P0103, P0106, P0107, P0108, P0171, P0172, P0174,		
						P0175, P0201, P0202, P0203, P0204, P0205, P0206, P0207, P0208, P0300, P0301,		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	ו	THRESH(OLD VAL	UE	SECONDARY PARAMETERS	ENABL	E CONDI	TIONS	TIM	E REG	QUIRED	MIL ILLUM.
Torque Converter Clutch (TCC)	P0742	TCC System Stuck ON	TCC Slip Speed TCC Slip Speed	>= <=	-20 20	RF RF			=		V V RPM RPM Sec N*m C C % % KPH KPH RPM RPM RAtio Ratio		6 3	Sec Count	Two Trips

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
				Disable Conditions:		TCM: P0716, P0717, P0722, P0723, P0741, P2762, P2763, P2764, P2769, P2770 ECM: P0101, P0102, P0103, P0106, P0107, P0108, P0171, P0172, P0174, P0175, P0201, P0202, P0203, P0204, P0205, P0206, P0207, P0208, P0300, P0301, P0302, P0301, P0302, P0303, P0306, P0307, P0308, P0306, P0307, P0308, P0307, P0308, P0307, P0308, P0306, P03090,		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
						P0391, P0401, P042E		
Shift solenoid A Performance	P0751	Shift Solenoid Valve A Stuck Off 2-2-3-3	Fail 1st gear low ratio multiplier 1st gear high ratio multiplier 4th gear low ratio Case 2 multiplier 4th gear high ratio multiplier 4th gear high ratio state of the first state of th	<= 1.050048828 Pct >= 0.949951172 Pct			= 2 Sec	Two Trips
			multiplier		Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed Engine Speed Engine Speed Status Valid Gear Slip Gear Slip Fail Time Throttle Engine Torque Output Speed Input Speed 4WD Range Timer Range Change Timer PTO Active Trans Temp Trans Temp Engine Torque Signal Valid Throttle Position Signal Valid	<pre><= 18 volts >= 500 RPM <= 6500 RPM >= 5 Sec = TRUE >= 150 RPM >= 0.5 Sec >= 8.0002 Pct >= 50 N*m >= 50 RPM >= 6 Sec >= 6 Sec = FALSE >= 20 C = TRUE</pre>	= 2 counts	

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUN
				Disable	MIL not Illuminated for DTC's:	TCM:		
				Conditions:		P0716,		
						P0717,		
						P0722,		
						P0723,		
						P0973, P0974,		
						P0974, P0976,		
						P0976, P0977,		
						P1915,		
						P182A,		
						P182C,		
						P182D,		
						P182E,		
						P182F,		
						P0741,		
						P0742,		
						P2763,		
						P2764,		
						P2769,		
						P2770		
						ECM:		
						P0101,		
						P0102,		
						P0103,		
						P0106,		
						P0107,		
						P0108,		
						P0171,		
						P0172,		
						P0174,		
						P0175,		
						P0201, P0202,		
						P0202, P0203,		
						P0203, P0204,		
						P0204, P0205,		
						P0206,		
						P0207,		
						P0208,		
						P0300,		
						P0301,		
						P0302,		
						P0303,		
						P0304,		
<u>k</u>						P0304, P0305,		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
						P0307, P0308, P0335, P0336, P0340, P0345, P0346, P0365, P0390, P0391, P0401, P042E		
Shift solenoid A Performance	P0752	Shift Solenoid Valve A Stuck On 1-1-4-4	Fail 2nd gear low ratio multiplier 2nd gear high ratio multiplier 3rd gear low ratio Case 2 multiplier 3rd gear high ratio multiplier multiplier 3rd gear high ratio multiplier	<= 1.050048828 Pct >= 0.949951172 Pct			= 2 Sec	Two Trips
			пыцию		Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid Gear Slip Gear Slip Fail Time Throttle Engine Torque Output Speed Input Speed Input Speed 4WD Range Timer Range Change Timer PTO Active Trans Temp Trans Temp Engine Torque Signal Valid Throttle Position Signal Valid	<pre><= 18 volts >= 500 RPM <= 6500 RPM >= 5 Sec = TRUE >= 150 RPM >= 0.5 Sec >= 8.0002 Pct >= 50 N*m >= 50 RPM >= 50 RPM >= 6 Sec >= 6 Sec = FALSE >= 20 C <= 130 C = TRUE</pre>	= 2 counts	

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
				Disable	MIL not Illuminated for DTC's:	TCM:		
				Conditions:		P0716,		
						P0717,		
						P0722,		
						P0723, P0973,		
						P0973, P0974,		
						P0976,		
						P0977,		
						P1915,		
						P182A,		
						P182C,		
						P182D,		
						P182E,		
						P182F,		
						P0741,		
						P0742,		
						P2763, P2764,		
						P2769,		
						P2770		
						ECM:		
						P0101,		
						P0102, P0103,		
						P0103, P0106,		
						P0100, P0107,		
						P0108,		
						P0171,		
						P0172,		
						P0174,		
						P0175,		
						P0201,		
						P0202,		
						P0203,		
						P0204,		
						P0205,		
						P0206, P0207,		
						P0207, P0208,		
						P0300,		
						P0301,		
						P0302,		
						P0303,		
						P0304,		
						P0305,		
						P0306,		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA		THRESHOLD \	'ALUE	SECONDARY PARAMETERS	ENABLE	E CONDI	TIONS	TIME	REQU	IIRED	MIL ILLUM.
								P0307, P0308, P0335, P0336, P0340, P0345, P0366, P0366, P0390, P0391, P0401, P042E						
Shift solenoid B Performance	P0756	Shift Solenoid Valve B Stuck On 4-3-3-4	Fail Case 1 1st gear low ratio multiplier 1st gear high ratio multiplier 2nd gear low ratio multiplier 2nd gear low ratio ratio gear low ratio case 2 2nd gear high ratio	<= >=	0.949951172 1.050048828 0.949951172 1.050048828	Pct Pct						2	Sec	One Trip
			multiplier				Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed Engine Speed Status Valid Gear Slip Gear Slip Fail Time Throttle Engine Torque Output Speed Input Speed 4WD Range Timer Range Change Timer Range Change Timer PTO Active Trans Temp Trans Temp Engine Torque Signal Valid Throttle Position Signal Valid	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	8 18 500 6500 5 TRUE 150 0.5 8.0002 50 50 6 6 FALSE 20 130 TRUE TRUE	volts volts RPM RPM Sec RPM Sec RPM RPM RPM RPM RPM Sec C C	=	2	counts	

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
				Disable	MIL not Illuminated for DTC's:			
				Conditions:		P0716,		
						P0717, P0722,		
						P0722, P0723,		
						P0973,		
						P0974,		
						P0976,		
						P0977,		
						P1915,		
						P182A,		
						P182C,		
						P182D, P182E,		
						P182E, P182F,		
						P0741,		
						P0742,		
						P2763,		
						P2764,		
						P2769,		
						P2770		
						ECM:		
						P0101,		
						P0102,		
						P0103, P0106,		
						P0106, P0107,		
						P0107, P0108,		
						P0171,		
						P0172,		
						P0174,		
						P0175,		
						P0201,		
						P0202,		
						P0203,		
						P0204, P0205,		
						P0205, P0206,		
						P0206, P0207,		
						P0207, P0208,		
						P0300,		
						P0301,		
						P0302,		
						P0303,		
						P0304,		I

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA		THRESHOLD	VALUE	SECONDARY PARAMETERS	ENABLE	E CONDI	TIONS	TIME	E REQI	JIRED	MIL ILLUM.
								P0305, P0306, P0307, P0308, P0335, P0346, P0345, P0346, P0365, P0366, P0390, P0391, P0401, P042E						
Shift solenoid B Performance	P0757	Shift Solenoid Valve B Stuck Off 1-2-2-1	Fail 3rd gear low ratio multiplier 3rd gear high ratio multiplier Fail 4th gear low ratio multiplier Case 2 multiplier 4th gear high ratio multiplier	<= >=	0.949951172 1.050048828 0.949951172 1.050048828	Pct					=	2	Sec	One Trip
			пицупе				Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed Engine Speed Status Valid Gear Slip Gear Slip Fail Time Throttle Engine Torque Output Speed Input Speed 4WD Range Timer Range Change Timer Range Change Timer PTO Active Trans Temp Trans Temp Engine Torque Signal Valid Throttle Position Signal Valid	>=	8 18 500 6500 5 TRUE 150 0.5 8.0002 50 50 6 6 FALSE 20 130 TRUE TRUE	volts volts RPM RPM Sec RPM Sec Pct N*m RPM Sec Sec C C	=	2	counts	

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM
				Disable	MIL not Illuminated for DTC's:	TCM:		
				Conditions:		P0716,		
						P0717,		
						P0722,		
						P0723,		
						P0973,		
						P0974,		
						P0976, P0977,		
						P1917, P1915,		
						P1915, P182A,		
						P182A, P182C,		
						P182D,		
						P182E,		
						P182F,		
						P0741,		
						P0742,		
						P2763,		
						P2764,		
						P2769,		
						P2770		
						ECM:		
						P0101,		
						P0102,		
						P0103,		
						P0106,		
						P0107,		
						P0108,		
						P0171,		
						P0172,		
						P0174, P0175,		
						P0175, P0201,		
						P0201, P0202,		
						P0202, P0203,		
						P0203, P0204,		
						P0205,		
						P0206,		
						P0207,		
						P0208,		
						P0300,		
						P0301,		
						P0302,		
						P0303,		
						P0304,		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Transmission Fluid Pressure Switch	P0842	TCC release switch circuit low voltage	TCC release switch state	= Closed Disable Conditions:	Engine Speed Engine Speed Engine speed between min/max for TFT TFT Vehicle Speed Vehicle Speed Engine Torque Engine Torque TCC Slip TCC Mde Torque Validity Flag Engine Speed Status Valid MIL not Illuminated for DTC's:	<= 511.99 KPH >= 50 Nm <= 1492 Nm >= 100 RPM = OFF = Valid = TRUE	>= 8 Sec >= 2 count	Two Trips

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CON	DITIONS	TIME	E REQU	JIRED	MIL ILLUM.
Topominion Fluid						P0103, P0106, P0107, P0108, P0171, P0172, P0174, P0175, P0201, P0202, P0203, P0204, P0205, P0206, P0207, P0208, P0300, P0301, P0301, P0305, P0306, P0307, P0308, P0308, P0308, P0308, P0308, P0308, P0309, P0					Tuo Trico
Transmission Fluid Pressure Switch	P0843	TCC release switch circuit high voltage	TCC release switch state	= Open	Engine Speed	>= 500		>= >=	6	Sec count	Two Trips
					Engine Speed Engine speed between min/max for TFT TCC Pressure TCC Pressure Engine Torque Engine Torque	>= 50	Sec C C Kpa Kpa Nm				

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
				Disable Conditions:	TCC Slip TCC Mde Engine Torque Status Valid Engine Speed Status Valid MIL not Illuminated for DTC's:	<= 60 RPM = On or Lock = TRUE = TRUE		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
						P0335, P0336, P0340, P0345, P0346, P0365, P0390, P0391, P0401,		
Shift Solinoid	P0973	Shift Solenoid A Control Circuit Low Voltage	hardware circuitry detects open or short to ground	= TRUE			>= 44 Fail Count (100ms loop) Out of 50 Counts (100ms loop)	
				Disable Conditions:	Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid	<= 18 volts >= 500 RPM <= 6500 RPM >= 5 Sec = TRUE		
						P0335, P0336, P0340, P0345, P0346, P0365, P0366, P0390,		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Shift Solinoid	P0974	Shift Solenoid A Control Circuit High Voltage	hardware circuitry detects a short to voltage	= TRUE			Fail >= 44 Count (100ms loop)	
							Sample Out Counts of (100ms loop)	
					Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid	<= 18 volts >= 500 RPM <= 6500 RPM >= 5 Sec		
				Disable Conditions:		None		
						ECM: P0335, P0336, P0340, P0345, P0346, P0366, P0390, P0391		
Shift Solinoid	P0976	Shift Solenoid B Control Circuit Low Voltage	hardware circuitry detects open or short to ground	= TRUE			>= 44 Fail Count (100ms loop)	
							Sample Out Counts of 50 (100ms loop)	
					Ignition Voltage Ignition Voltage			

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Shift Solinoid	P0977	Shift Solenoid B Control Circuit High Voltage	hardware circuitry detects a short to voltage	Disable Conditions:	Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid MIL not Illuminated for DTC's: Ignition Voltage Ignition Voltage Engine Speed Status Valid	<pre><= 6500 RPM >= 5 Sec = TRUE TCM: None ECM: P0335, P0346, P0346, P0366, P0390, P0391 >= 8 volts <= 18 volts <= 500 RPM <= 6500 RPM >= 5 Sec</pre>	>= 44	

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD	VALUE	SECONDARY PARAMETERS	ENABLE	CONDITION	NS T	IME RE	QUIRED	MIL ILLUM.
					Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: P0335, P0336, P0345, P0345, P0365, P0366, P0390, P0391					
Transmission Fluid Pressure Switch (TFP)	P1810	TFP state is illegal	TFP Illegal (switch B & C low)	= TRUE	Disable	Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid PTO Active	>= <= >= = = TCM:	8 vo 18 vo 500 RF 6500 RF 5 Se TRUE FALSE	Its Its PM	= 60	Sec	Two Trips
					Conditions:		None ECM: P0335, P0336, P0340, P0345, P0366, P0366, P0390, P0391					
Transmission Fluid Pressure Switch (TFP)	P1816	TFP indicates Park or Neutral (P/N) with drive ratio	1st gear ratio High 2nd gear ratio low 2nd gear ratio High 3rd gear ratio low 3rd gear ratio High 4th gear ratio low	>= 2.752807617 <= 3.167236328 >= 1.512207031 <= 1.739746094 >= 0.930053711	Ratio Ratio Ratio Ratio Ratio Ratio				>	= 12	Sec	Two Trips

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE COND	ITIONS	TIME REQUIRED	MIL ILLUM.
				Disable Conditions:	Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed Engine Speed Engine speed between min/max for Output speed Throttle position Engine Torque Engine Torque Signal Valid Throttle Position Signal Valid Engine Speed Status Valid PTO Active MIL not Illuminated for DTC's:	<= 18 >= 500 <= 6500 >= 5 >= 82 >= 8.0002 >= 50 <= 1492 = TRUE = TRUE = TRUE = FALSE	Nm Nm		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
						P0174, P0175, P0201, P0202, P0203, P0204, P0205, P0206, P0207, P0208, P0300, P0301, P0302, P0303, P0304, P0305, P0306, P0307, P0308, P0336, P0340, P0345, P0346, P0346, P0366, P0390, P0391, P0401, P042E		
Transmission Fluid Pressure Switch (TFP)	P1818	TFP indicates Park or Neutral (P/N) with reverse ratio	TFP indication Ratio Ratio	= P/N >= 1.993041992 Ratio <= 2.29284668 Ratio	Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for Output speed Throttle position Engine Torque Engine Torque Trans Temp Engine Torque Signal Valid Throttle Position Signal Valid Engine Speed Status Valid	<pre><= 18 volts >= 500 RPM <= 6500 RPM >= 5 Sec >= 50 RPM >= 10.001 PCT >= 45 Nm <= 1492 Nm >= 20 Deg C = TRUE = TRUE</pre>	>= 3 Sec	Two Trips

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P0751, P0752,		
						P0752, P0756, P0757, P0787, P0788, P0973, P0974, P0976, P0977, P1810, P1815, P1816,		
						P1825. ECM: P0101, P0102, P0103, P0106, P0107, P0108, P0171, P0172,		
						P0174, P0175, P0201, P0202, P0203, P0204, P0205, P0206, P0207, P0208, P0300,		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
						P0301, P0302, P0303, P0304, P0305, P0306, P0307, P0308, P0335, P0340, P0345, P0346, P0365, P0390, P0391, P0401, P042E		
Ignition 1 Circuit Low Voltage	P2534	No Ignition Voltage at the TCM	lgnition 1 (run/crank) input	<= 2 volt			>= 200	One Trip
					Engine running state from ECM Power Mode	g Acc or		

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
				Disable Conditions:	MIL not Illuminated for DTC's:	None ECM:		
TCC PWM Solenoid	P2763	TCC PWM Solenoid circuit high voltage	Hardware circuitry detects a short to voltage	= TRUE		None	>= 44 Fail Count (100ms loop)	Two Trips
							Out Sample Out Counts of 50 (100ms loop)	
					Ignition Voltage Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid TCC PWM command	>= 500 RPM <= 6500 RPM >= 5 Sec = TRUE		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: P0335, P0336, P0340, P0345, P0346, P0365, P0366, P0390, P0391		
TCC PWM Solenoid	P2764	TCC PWM Solenoid circuit low voltage	Hardware circuitry detects open or short to ground	= TRUE			Fail Count (100ms	Two Trips

Communication U0073 Controller Area Network Bus CAN Bus Detects Invalid Message Error TRUE Boolean >= TRUE Boolean >= TRUE Boolean Sample	COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Ignition Voltage								Out 50 Counts (100ms	
Conditions: None ECM: P0335, P0336, P0340, P0345, P0345, P0346, P0365, P0366, P0390, P0391					Disable	Ignition Voltage Engine Speed Engine Speed Engine speed between min/max for Engine Speed Status Valid TCC PWM command	<= 18 V >= 500 RPM <= 6500 RPM >= 5 Sec = TRUE = OFF		
Communication U0073 Controller Area Network Bus CAN Bus Detects Invalid Message Error = TRUE Boolean Fail >= 5 Count (1000m s loop) Sample							None ECM: P0335, P0336, P0340, P0345, P0366, P0366, P0390,		
	Communication	U0073		CAN Bus Detects Invalid Message Error	= TRUE Boolean			>= 5 Count (1000m	Two Trips
of 5 (1000m s loop) Ignition On						Ignition On		Out 5 Counts of (1000m	

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA		THRESHOLI) VALUE	SECONDARY PARAMETERS	ENABLE	CONDI	TIONS	TIME	REQL	JIRED	MIL ILLUM.
						Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM:						
Communication	U0100	Lost Communications with Engine Control System	Comm. Message Invalid Between ECU and TCM	=	TRUE	Boolean		None			>=	12	Fail Count (1000m s loop)	Two Trips
											Out of	12	Sample Counts (1000m s loop)	
							lgnition Voltage Lo Ignition Voltage Hi Power Mode	>= <= =	11 18 Run	Volt Volt				
						Disable Conditions:	MIL not Illuminated for DTC's:	TCM: U0073 ECM: None						

Supporting Tables

Table 1	Units Axis -40 -25 -10 5 20 Deg C Curve 1900 1000 800 520 200 Sec																	
Table 2																		Units
	Axis		6.248474	12.49695	18.74542	24.9939		37.49084		49.98779	56.23627	62.48474			81.23016	87.47864		99.97559 PCT
	Curve	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624	624 Kpa
Table 3	Axis Curve	0 150	64 150	128 150	192 150	256 150	320 150	384 150	448 150	512	Units Nm RPM							
Table 4											Units							
	Axis	-40	-16.25	7.5	31.25	55	78.75	102.5	126.25	150	Deg C							
	Curve	600	400	400	400	400	400	400	400	400	RPM							
<u>Table 5</u>	Axis Curve	-40 0.1	7.5 0.15	55 0.2	102.5 0.3	150	Units Deg C Sec											