

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Transmission Control Modul (TCM)	P0601	Transmission Electro-Hydraulic Control Module Read Only Memory	Incorrect program/calibrations checksum	= TRUE Boolean			>= 5 Fail Counts	One Trip
					Ignition Voltage Low Ignition Voltage High	>= 8.5996 Volts <= 18 Volts	Disable Conditions: MIL not Illuminated for DTC's: TCM: P0601 ECM: None	
Transmission Control Modul (TCM)	P0602	Transmission Electro-Hydraulic Control Module Not Programmed	Non-Programmed TECHM Failure	= TRUE Boolean			Runs Continuously	One Trip
					Ignition Voltage Low Ignition Voltage High	>= 8.5996 Volts <= 18 Volts	Disable Conditions: MIL not Illuminated for DTC's: TCM: P0602 ECM: None	
Transmission Control Modul (TCM)	P0603	Transmission Electro-Hydraulic Control Module Long-Term Memory Reset	Non-volatile memory (static or dynamic) checksum failure	= TRUE Boolean			Runs Continuously	One Trip
					Ignition Voltage Low Ignition Voltage High	>= 8.5996 Volts <= 18 Volts	Disable Conditions: MIL not Illuminated for DTC's: TCM: P0603 ECM: None	
Transmission Control Modul (TCM)	P0604	Transmission Electro-Hydraulic Control Module Random Access Memory	RAM Read/Write Failure (Single Word)	= TRUE Boolean			>= 5 Fail Counts = 16 Sample Counts	One Trip
					Ignition Voltage Low Ignition Voltage High	>= 8.5996 Volts <= 18 Volts		

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					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0604 ECM: None				
Transmission Control Modul (TCM)	P062F	Transmission Electro-Hydraulic Control Module Long Term Memory Performance	TCM Non-Volatile Memory bit Incorrect flag	= TRUE Boolean			Runs Continuously	One Trip		
					Ignition Voltage Lo Ignition Voltage Hi	>= 8.5996 Volts <= 18 Volts	Disable Conditions: MIL not Illuminated for DTC's:		TCM: P062F ECM: None	
Transmission Control Modul (TCM)	P0634	Transmission Electro-Hydraulic Control Module Internal Temperature Too High	<u>Fail Case 1</u> Substrate Temperature	>= 142.1015625 C°			>= 5	Fail Time (Sec)	One Trip	
			<u>Fail Case 2</u> Substrate Temperature	>= 50 C°			>= 2	Fail Time (Sec)		
			Ignition Voltage	>= 18 Volts						
					Substrate Temp Lo Substrate Temp Hi Substrate Temp Between Temp Range for Time	>= 0 C° <= 170 C° >= 0.25 Sec	Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0634 ECM: None		
HWIO	P0658	Actuator Supply Voltage Circuit Low	Open or ground short is detected by hardware circuitry	= TRUE Boolean			>= 3	Fail Counts	One Trip	
							= 5	Sample Counts		
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for HSD #1 Enabled	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec = True Boolean				

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				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0658 ECM: None			
Transmission Fluid Temperature Sensor (TFT)	P0667	TCM internal temperature thermistor failed at a constant value or toggling at high frequency.	<u>Fail Case 1</u>	Enable Vehicle Speed	>= 8 Kph		>= 300	Vehicle Speed Enable Time (Sec)	Special No Trip
			Enable TCC Slip	> 150 RPM		>= 150	TCC Slip Enable Time (Sec)		
			Enable Transmission Fluid Temperature	>= 70 C°					
			Enable Transmission Fluid Temperature Delta from startup	>= 55 C°					
			Enable Substrate Temp Delta	< 2 C°			>= 100	Temp Delta Enable Time (Sec)	
			Startup Substrate Temperature Lo Enable	>= -55 C°					
			Startup Substrate Temperature HI Enable When Above FC1	<= 21 C°					
			Enable Conditions have been Met, Increment Fail Timer				> 100	Fail Timer (Sec)	
			<u>Fail Case 2</u>	Vehicle Speed	>= 8 RPM		>= 300	Vehicle Speed Enable Time (Sec)	

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			TCC Slip	> -12 RPM			>= -12	TCC Slip Enable Time (Sec)
			Transmission Fluid Temperature	>= 70 C°				
			Transmission Fluid Temperature Delta from startup	>= 55 C°				
			Enable Substrate Temp Delta	< 2 C°			>= 100	Temp Delta Enable Time (Sec)
			Startup Substrate Temperature Lo Enable	>= 120 C°				
			Startup Substrate Temperature HI Enable	<= 150 C°				
			When Above FC2 Enable Conditions have been Met, Increment Fail Timer				> 100	Fail Timer (Sec)
			<u>Fail Case 3</u> TCM Internal temp delta	>= 20 C°			>= 14	Fail Counts
							>= 7	Sample Time (Sec)
					TCM Internal Temp Lo	>= -55 C°		
					TCM Internal Temp Hi	<= 150 C°		
					Ignition Voltage Lo	>= 8.5996 Volts		
					Ignition Voltage Hi	<= 18 Volts		
					Engine Speed Lo	>= 500 RPM		
					Engine Speed Hi	<= 7500 RPM		
					Engine Speed is within the allowable limits for	>= 5 Sec		

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					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0667,P0716,P0717,P0722,P0723 ECM: None		
Transmission Control Modulal (TCM)	P0668	TCM internal temperature thermistor failed at a high temperature (short to Ground).	TCM Substrate Temp	>= -249 C°			>= 12.75 Fail Timer (Sec)	Special No Trip
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0668 ECM: None		
Transmission Control Modulal (TCM)	P0669	TCM internal temperature thermistor failed at a low temperature (open or short to power).	TCM Substrate Temp	<= 249 C°			>= 4 Fail Timer (Sec)	Special No Trip
					Toss Speed Toss Speed greater than above cal for TCC Slip TCC Slip greater than above cal for Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 200 RPM >= 200 Sec >= -12 RPM >= 0 Sec >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		

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					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0669, P0716, P0717, P0722, P0723 ECM: None		
Mode Switch	P071A	Tow Haul Mode Switch	If Winter Mode Switch A or B is Active	= TRUE Boolean			>= 600 Fail Time (Sec)	Special No Trip
					Tow Haul Mode Switch Diagnostic Enabled Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	= TRUE Boolean >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P1762 ECM: None		
Mode Switch	P071D	Sport Mode Switch	If Sport Mode Switch A or B is Active	= TRUE Boolean			>= 600 Fail Time (Sec)	Special No Trip
					Sport Mode Switch Diagnostic Enabled Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	= TRUE Boolean >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P1762 ECM: None		

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Transmission Fluid Temperature Sensor (TFT)	P0711	Trans Fluid Temp Sensor Circuit Range/Performance	<u>Fail Case 1</u>	Vehicle Speed >= 8 Kph			>= 300	Vehicle Speed Enable Time (Sec)	Special No Trip
			TCC Slip >= 150 RPM			>= 0	TCC Slip Enable Time (Sec)		
			Transmission Fluid Temperature Low >= -50 C°						
			Transmission Fluid Temperature High <= 21 C°						
			Engine Coolant Temp >= 70 C°						
			Engine Coolant Temp Delta >= 55 C°						
			TFT Delta from Startup < 2 C°						
			If the Above Enable Conditions are Met, Then Increment Fail Counter				>= 100	Fail Time (Sec)	
			<u>Fail Case 2</u>	Vehicle Speed >= 8 Kph			>= 300	Vehicle Speed Enable Time (Sec)	
			TCC Slip >= -12 RPM				>= 0	TCC Slip Enable Time (Sec)	
			Transmission Fluid Temperature >= 129 C°						
			Transmission Fluid Temperature <= 170 C°						
			Engine Coolant Temp >= 70 C°						
			Engine Coolant Temp Delta >= 55 C°						

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COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			TFT Delta from startup	< 2 C°			TFT Delta Enable Time (Sec) >= 100 If the Above Enable Conditons are Met, Then Increment Fail Counter >= 100 Fail Time (Sec)	
			<u>Fail Case 3</u> TFT Delta from startup	>= 20 C°			Fail Counts = 5 Sample Time (Sec) = 7	
			<u>Fail Case 4</u> Transmission Fluid Temperature	<= 20 C°			Please Refer to Table 1 in supporting Documents for Cal Table >= Fail Time (Sec)	
					Engine Torque Lo >= 50 N*m Engine Torque Hi <= 1492 N*m Throttle Position Lo >= 8.0002 Pct Throttle Position Hi <= 99.998 Pct Vehicle Speed Lo >= 8 Kph Vehicle Speed Hi <= 511 Kph Engine Speed Lo >= 500 RPM Engine Speed Hi <= 6500 RPM Engine Coolent Lo >= -39 C° Engine Coolent Hi <= 149 C°			
					Engine Torque Signal Valid = TRUE Accellerator Position Signal Valid = TRUE Engine Crank Position Sensor Signal Valid = TRUE	Boolean Boolean Boolean		
					Transmission Fluid Temperature Lo	>= -50 C°		

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					Transmission Fluid Temperature Hi Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Coolent Sensor Signal Valid Engine Speed is within the allowable limits for	<= 170 C° >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM = TRUE Boolean >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0711, P0716, P0717, P0722, P0723, P0742, P2726 ECM: P0101, P0102, P0103, P0116, P0117, P0118, P0121, P0122, P0123, P0336, P0337, P0338		
Transmission Fluid Temperature Sensor (TFT)	P0712	Transmission fluid temperature thermistor failed at a high temperature (short to ground).	Transmission Fluid Temperature	>= -74 C°			>= 12.75 Fail Time (Sec)	Special No Trip
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		

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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: P0712, P0716, P0717, P0722, P0723 ECM: None			
Transmission Fluid Temperature Sensor (TFT)	P0713	Transmission fluid temperature thermistor failed at a low temperature (open or short to power).	Transmission Fluid Temperature	>= 174 C°			>= 10	Fail Time (Sec)	Special No Trip
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec			
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0713, P0716, P0717, P0722, P0723 ECM: None			
Transmission Input Speed Sensor (TISS)	P0716	Input Speed Sensor Performance	Transmission Input Speed Sensor Drops	>= 881.75 RPM			>= 0.8	Fail Time (Sec)	One Trip
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Engine Torque Lo Engine Torque Hi Vehicle Speed Throttle Position Engine Torque Signal Valid Throttle Position Signal Valid	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec >= 0 N*m <= 1492 N*m >= 0 Kph >= 0 Pct = TRUE = TRUE	Boolea n Boolea n		

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					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P0752, P0973, P0974 ECM: P0101, P0102, P0103, P0121, P0122, P0123			
Transmission Input Speed Sensor (TISS)	P0717	Input Speed Sensor Circuit Low Voltage	Transmission Input Speed Sensor	< 50 RPM			>= 4.5	Fail Time (Sec)	One Trip
					Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Engine Torque Lo >= 50 N*m Engine Torque Hi <= 1492 N*m Vehicle Speed >= 16 Kph			Disable Conditions: MIL not Illuminated for DTC's:	
Transmission Output Speed Sensor (TOSS)	P0722	Output Speed Sensor Circuit Low Voltage	Transmission Output Speed Sensor Raw Speed	<= 35 RPM			>= 4	Fail Time (Sec)	One Trip
					Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec				

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					Engine Torque Lo >= 50 N*m Engine Torque Hi <= 1492 N*m Throttle Position >= 5.0003 Pct Transmission Input Speed Lo >= 653.13 RPM Transmission Input Speed Hi <= 5350 RPM Transmission Fluid Temperature >= -40 C° Engine Torque Signal Valid = TRUE Boolean Throttle Position Signal Valid = TRUE Boolean			
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722 ECM: P0101, P0102, P0103, P0121, P0122, P0123		
Transmission Output Speed Sensor (TOSS)	P0723	Output Speed Sensor Circuit Intermittent	Raw Output Speed >= 210 RPM Input Speed Delta < 4095 RPM Output Speed Delta <= 8191 RPM Output Speed Drop > 650 RPM				>= 0 Enable Time (Sec) >= 0 Enable Time (Sec) >= 0 Enable Time (Sec) >= 1.5 Output Speed Drop Recover Fail Time (Sec)	One Trip
					Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 3200 RPM			

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COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Engine Speed Hi Range Change Delay Timer 4WD Range Change Delay Timer Engine Torque Signal Valid Throttle Position Signal Valid Disable Conditions:	<= 7500 RPM >= 5 Sec >= 5 Sec = TRUE Boolean = TRUE Boolean TCM: P0716, P0717, P0722, P0723, P0973, P0974, P0976, P0977 ECM: P0101, P0102, P0103, P0121, P0122, P0123		
Torque Converter Clutch (TCC)	P0741	TCC System Stuck OFF	TCC Pressure	>= 800 Kpa			>= 2 Enable Time (Sec)	One Trip
			TCC Slip Error @ TCC Lock Mode	>= Please See Calibration Table 3 in Supporting Documents RPM			>= 6 Enable Time (Sec)	
			If Above Conditions Have been Met, and Fail Timer Expired, Increment Fail Counter				>= 2 TCC Stuck Off Fail Counter	
					Ignition Voltage Lo Ignition Voltage Hi Engine Torque Lo Engine Torque Hi Throttle Position Lo Throttle Position Hi 2nd Gear Ratio Lo 2nd Gear Ratio High	>= 8.5996 Volts <= 18 Volts >= 50 N*m <= 1492 N*m >= 8.0002 Pct <= 99.998 Pct >= 2.2051 Ratio <= 2.537 Ratio		

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					3rd Gear Ratio Lo >= 1.4424 Ratio 3rd Gear Ratio High <= 1.6595 Ratio 4th Gear Ratio Lo >= 1.076 Ratio 4th Gear Ratio High <= 1.238 Ratio 5th Gear Ratio Lo >= 0.7933 Ratio 5th Gear Ratio Hi <= 0.9127 Ratio 6th Gear Ratio Lo >= 0.6268 Ratio 6th Gear Ratio High <= 0.7212 Ratio Transmission Fluid Temperature Lo >= 20 C° Transmission Fluid Temperature Hi <= 130 C° TCC Command Lock ON or ON = TRUE Boolean PTO Not Active = TRUE Boolean Engine Torque Signal Valid = TRUE Boolean Throttle Position Signal Valid = TRUE Boolean	Disable Conditions: MIL not Illuminated for DTC's: TCM: P0716, P0717, P0722, P0723, P0742, P2762, P2763, P2764 ECM: P0101, P0102, P0103, P0121, P0122, P0123		
Torque Converter Clutch (TCC)	P0742	TCC System Stuck ON	TCC Slip Speed >= -12 RPM TCC Slip Speed <= 13 RPM If TCC Slip is between above calcs when TCC Commanded Off, Increment Fail Timer If Fail Timer has expired, increment Fail Counter				>= 2.5 Fail Time (Sec) = 6 Fail Counter	One Trip

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					Ignition Voltage Lo Ignition Voltage Hi Engine Torque Lo Engine Torque Hi Transmission Fluid Temperature Lo Transmission Fluid Temperature Hi Trottle Position Lo Trottle Position Hi Vehicle Speed Engine Speed Lo Engine Speed Hi Gear Ratio Lo Gear Ratio Hi Commanded Gear Shift Solenoid A Enabled TCC Command Off Engine Torque Signal Valid Throttle Position Signal Valid	>= 8.5996 Volts <= 18 Volts >= 80 N*m <= 1492 N*m >= 20 C° <= 130 C° >= 8.0002 Pct <= 2.9999 Pct >= 16 Kph >= 500 RPM <= 6500 RPM >= 0.6268 Ratio <= 1.6393 Ratio >= 2nd Gear = TRUE Boolean = TRUE Boolean = TRUE Boolean = TRUE Boolean		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P0741, P0742, P1751, P2762, P2763, P2764 ECM: P0101, P0102, P0103, P0121, P0122, P0123		

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Mode 2 Multiplex Valve	P0751	Shift Solenoid Valve A Stuck Off	Commaned Gear Slip	>= 200 RPM			Please Refer to Table 6 in Supporting Documents Neutral Timer (Sec) >= 0.5688 Fail Timer (Sec)	Two Trips
			Commanded Gear	= 1st Lock rpm				
			Closest Gear Ratio	= 4th Gear				
					Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec TPS >= 0.5005 % Shift is Complete AND Transmission Fluid Temperature >= 0 C° OR Output Speed >= 0 RPM Throttle Position Signal Valid from ECM = TRUE Boolean Engine Torque Signal Valid from ECM, High side driver is enabled = TRUE Boolean High-Side Driver is Enabled = TRUE Boolean	TCM: P0716, P0717, P0722, P0723, P182E ECM: P0121, P0122, P0123		
				Disable Conditions:	MIL not Illuminated for DTC's:			

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Mode 2 Multiplex Valve	P0752	Shift Solenoid Valve A Stuck On	Gear Box Slip	>= 200 Rpm			Please Refer to Table 6 in Supporting Documents	One Trip
			Attained Gear ≠ 3rd Gear Commanded Gear = 3rd Gear Commanded Gear has Achieved 1st Locked OR 1st Free-Wheel OR 2nd	= TRUE Boolean				
					Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec High-Side Driver is Enabled = TRUE Boolean Throttle Position Signal Valid from ECM = TRUE Boolean Output Speed OR TPS >= 0 RPM Shift is Complete >= 0.5005 % Transmission Fluid Temperature >= 0 C°			
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E ECM: P0121, P0122, P0123		
Mode 2 Multiplex Valve	P0756	Shift Solenoid Valve B Stuck Off	Fail Case 1 Commanded Gear	= 1st Locked or 1st FW				One Trip

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			Gear Box Slip	>= 200 RPM			Please Refer to Table 6 in Supporting Documents Fail Time (Sec)		
			Fail Case 2 Commanded Gear	= 2nd Gear					
			Gear Box Slip Closest Gear Ratio	<= 200 RPM ≠ 2nd Gear					
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Output Speed OR TPS Shift is Complete Transmission Fluid Temperature High-Side Driver is Enabled Throttle Position Signal Valid from ECM	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec >= 0 RPM OR >= 0.5005 % = TRUE = TRUE			
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723,P 182E ECM: P0121, P0122, P0123			
Variable Bleed Solenoid (VBS)	P0776	Pressure Control (PC) Solenoid B Stuck Off [C35R]	Fail Case 1 Case: Steady State 3rd Gear Commanded Gear	= 3rd Gear				One Trip	

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			Gearbox Slip	>= 200 Rpm			>= 2 Counts	Fail Time (Sec)
			Intrusive Test: Command 4th Gear If attained Gear ≠ 4th then Increment Fail Counter If attained Gear ≠ 4th then Increment Fail Counter				>= 2 Counts >= 14 Counts	Please Refer to Table 6 in Supporting Documents
			Fail Case 2 Case: Steady State 5th Gear Commanded Gear	= 5th Gear				Please Refer to Table 6 in Supporting Documents
			Gearbox Slip	>= 200 Rpm			>= 2 Counts	Fail Time (Sec)
			Intrusive Test: Command 6th Gear If attained Gear ≠ 4th then Increment Fail Counter If attained Gear ≠ 4th then Increment Fail Counter				>= 2 Counts >= 14 Counts	Please Refer to Table 6 in Supporting Documents
					PRNDL State defaulted	= FALSE	Boolean	
					inhibit RVT	= FALSE	Boolean	
					IMS fault pending indication	= FALSE	Boolean	
					TPS validity flag	= TRUE	Boolean	
					Hydraulic System Pressurized	= TRUE	Boolean	
					Minimum output speed for RVT	>= 0	RPM	

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					A OR B (A) Output speed enable (B) Accelerator Pedal enable Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Throttle Position Signal Valid HSD Enabled	>= 16 RPM >= 0.5005 Pct >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec = TRUE Boolean = TRUE Boolean		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P0716, P0717, P0722, P0723,P 182E ECM: P0121, P0122, P0123		
Variable Bleed Solenoid (VBS)	P0777	Pressure Control (PC) Solinoid B Stuck On [C35R] (Steady State)	<u>Fail Case 1</u> Commanded Gear slip Intrusive test: (CBR1 clutch exhausted) 3rd closest gear	<= 33 RPM = TRUE			<= 0.5688 Fail Timer (Sec)	One Trip
			<u>Fail Case 2</u> Commanded Gear slip Intrusive test: (CB26 clutch exhausted) 3rd closest gear	<= 33 RPM = TRUE			<= 0.5688 Fail Timer (Sec)	
			<u>Fail Case 3</u> Commanded Gear slip Intrusive test: (C1234 clutch exhausted) 3rd closest gear	<= 33 RPM = TRUE			<= 0.5688 Fail Timer (Sec)	

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			If Attained Gear Slip is Less than Above Call Increment Fail Timers				Total Fail Time = (Fail 1 + Fail 2) See Enable Timers for Fail Timer 1, and Reference Supporting Table 19 for Fail Timer 2	
			fail timer 1 (3-1 shifting with Closed Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (3-2 shifting with Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (3-2 shifting with Closed Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (3-4 shifting with Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (3-4shifting with Closed Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (3-5 shifting with Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (3-5 shifting with Closed Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (5-3 shifting with Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (5-3 shifting with Closed Throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (5-4 shifting with Throttle)	>= 1.200195313 Fail Time (Sec)				

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COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			fail timer 1 (5-4 shifting with Closed Throttle) >= 1.200195313 Fail Time (Sec) fail timer 1 (5-6 shifting with Throttle) >= 1.200195313 Fail Time (Sec) fail timer 1 (5-6 shifting with Closed Throttle) >= 1.200195313 Fail Time (Sec)					
					Trans oil temperature > 0 C° Input Speed Sensor FA or TFTKO = FALSE Boolean output speed sensor fault = FALSE Boolean Command / Attained Gear ≠ 1st FW Boolean High Side Driver ON = TRUE Boolean output speed limit for TUT >= 350 RPM input speed limit for TUT >= 200 RPM TUT Enable temperature >= 0 C° PRNDL state defaulted = FALSE Boolean IMS Fault Pending = FALSE Boolean Service Fast Learn Mode = FALSE Boolean HSD Enabled = TRUE Boolean	Disable Conditions: MIL not Illuminated for DTC's: TCM: P182E ECM: None		
Variable Bleed Solenoid (VBS)	P0796	Pressure Control (PC) Solenoid C Stuck Off [C456] (Steady State)	<u>Fail Case 1</u> Case: Steady State 4th Gear Gear slip >= 200 RPM Intrusive test: commanded 5th gear				Please See Table 6 For Neutral Time Cal >= sec	One Trip

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			If attained Gear ≠5th then increment Fail Counter If attained Gear ≠ 5th then increment Fail Counter <u>Fail</u> Case: Steady State 5th Gear Case 2				≥ 2 4th Gear Fail Count Total ≥ 14 5th Gear Fail Count	
			Gear slip Intrusive test: commanded 6th gear If attained Gear ≠6th then increment Fail Counter If attained Gear ≠6th then increment Fail Counter <u>Fail</u> Case: Steady State 6th Gear Case 3	≥ 200 RPM			≥ For Neutral Time Cal ≥ 2 5th Gear Fail Count Total ≥ 14 6th Gear Fail Count	
			Intrusive test: commanded 5th gear If attained Gear ≠ 5th then increment Fail Counter If attained Gear ≠ 5th then increment Fail Counter				≥ 2 6th Gear Fail Count Total ≥ 14 6th Gear Fail Count	
					PRNDL State defaulted inhibit RVT IMS fault pending indication TPS validity flag	= FALSE Boolean = FALSE Boolean = FALSE Boolean = TRUE Boolean		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Hydraulic System Pressurized Minimum output speed for RVT A OR B (A) Output speed enable (B) Accelerator Pedal enable Common Enable Criteria Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Throttle Position Signal Valid HSD Enabled	= TRUE Boolean >= 0 RPM >= 16 RPM >= 0.5005 Pct >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec = TRUE Boolean = TRUE Boolean		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723,P 182E ECM: P0121, P0122, P0123		
Variable Bleed Solenoid (VBS)	P0797	Pressure Control (PC) Solenoid C Stuck On [C456] (Steady State)	<u>Fail Case 1</u> Case: Steady State 1st FW Commanded Gear slip Intrusive test: (CBR1 clutch exhausted) Intrusive test: (CBR1 clutch exhausted)	<= 33 RPM = TRUE Boolean			<= 0.5688 Fail Time (Sec)	One Trip
			<u>Fail Case 2</u> Intrusive test: (CBR1 clutch exhausted) Intrusive test: (CBR1 clutch exhausted)	<= 33 RPM			<= 0.5688 Fail Time (Sec)	

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Intrusive test: (CBR1 clutch exhausted)	= TRUE Boolean				
			<u>Fail Case 3</u> Intrusive test: (CBR1 clutch exhausted)	<= 33 RPM			<= 0.5688	Fail Time (Sec)
			Intrusive test: (CBR1 clutch exhausted)	= TRUE Boolean				
					PRNDL State defaulted	= FALSE Boolean		
					inhibit RVT	= FALSE Boolean		
					IMS fault pending indication	= FALSE Boolean		
					output speed	>= 0 RPM		
					Crank Enable Criteria is met	= TRUE Boolean		
					TPS validity flag	= TRUE Boolean		
					Hydraulic_System_Pressurized	= TRUE Boolean		
					Minimum output speed for RVT	>= 0 RPM		
					A OR B			
					(A) Output speed enable	>= 16 RPM		
					(B) Accelerator Pedal enable	>= 0.5005 Pct		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P182E		
						ECM: None		
Variable Bleed Solenoid (VBS)	P0797	Pressure Control (PC) Solenoid C Stuck On [C456]	Primary Offgoing Clutch is exhausted (See Table 14 thru 18 in Supporting Documents for Exhaust Delay Timers)	= TRUE Boolean				One Trip
			Primary Oncoming Clutch Pressure Command Status	= Maximum pressurized				
			Primary Offgoing Clutch Pressure Command Status	= Clutch exhaust command				

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Range Shift Status \neq Initial Clutch Control Attained Gear Slip \leq 40 RPM				Total Fail Time = (Fail Timer 1 + Fail Timer 2) See Below Enable Timers for Fail Timer 1, and Reference Supporting Table 19 for Fail Timer 2	
			If Attained Gear Slip is Less than Above Call Increment Fail Timers				\geq sec	
			fail timer 1 (4-1 shifting without throttle)	\geq 1.200195313	Fail Time (Sec)			
			fail timer 1 (4-1 shifting with throttle)	\geq 1.200195313	Fail Time (Sec)			
			fail timer 1 (4-2 shifting without throttle)	\geq 1.200195313	Fail Time (Sec)			
			fail timer 1 (4-2 shifting with throttle)	\geq 1.200195313	Fail Time (Sec)			
			fail timer 1 (4-3 shifting without throttle)	\geq 1.200195313	Fail Time (Sec)			
			fail timer 1 (4-3 shifting with throttle)	\geq 1.200195313	Fail Time (Sec)			
			<u>Fail Case 4</u> fail timer 1 (5-3 shifting without throttle)	\geq 1.200195313	Fail Time (Sec)			

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			fail timer 1 (5-3 shifting with throttle) >= 1.200195313 Fail Time (Sec) fail timer 1 (6-2 shifting without throttle) >= 1.200195313 Fail Time (Sec) fail timer 1 (6-2 shifting with throttle) >= 1.200195313 Fail Time (Sec)					
					Trans oil temperature > 0 C° Input Speed Sensor FA or TFTKO = FALSE Boolean output speed sensor fault = FALSE Boolean Command / Attained Gear ≠ 1st FW Boolean High Side Driver ON = TRUE Boolean output speed limit for TUT >= 350 RPM input speed limit for TUT >= 200 RPM TUT Enable temperature >= 0 C° PRNDL state defaulted = FALSE Boolean IMS Fault Pending = FALSE Boolean Service Fast Learn Mode = FALSE Boolean HSD Enabled = TRUE Boolean	Disable Conditions:	MIL not Illuminated for DTC's: TCM: P182E ECM: None	
Tap Up Tap Down Switch (TUTD)	P0815	Upshift Switch Circuit	<u>Fail Case 1</u> Tap Up Switch Stuck in the Up Position in Gear 1 Enabled = 0 Boolean Tap Up Switch Stuck in the Up Position in Gear 2 Enabled = 0 Boolean Tap Up Switch Stuck in the Up Position in Gear 3 Enabled = 0 Boolean Tap Up Switch Stuck in the Up Position in Gear 4 Enabled = 0 Boolean		Time Since Last Range Change	>= 1 Enable Time (Sec)		Special No Trip

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Tap Up Switch Stuck in the Up Position in Gear 5 Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 6 Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Neutral Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Park Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Reverse Enabled	= 0 Boolean				
			Tap Down Switch ON	= TRUE Boolean			>= 1	Fail Time (Sec)
			<u>Fail Case 2</u> Tap Up Switch Stuck in the Up Position in Gear 1 Enabled	= 1 Boolean	Time Since Last Range Change	>= 1 Enable Time (Sec)		
			Tap Up Switch Stuck in the Up Position in Gear 2 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 3 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 4 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 5 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 6 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Neutral Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Park Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Reverse Enabled	= 0 Boolean				
			Tap Down Switch ON	= TRUE Boolean			>= 600	Fail Time (Sec)

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			NOTE: Both Failcase1 and Failcase 2 Must Be Met					
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0826, P0815, P182E, P1761 ECM: None		
Tap Up Tap Down Switch (TUTD)	P0816	Downshift Switch Circuit	<u>Fail Case 1</u> Tap Down Switch Stuck in the Down Position in Gear 1 Enabled Tap Down Switch Stuck in the Down Position in Gear 2 Enabled Tap Down Switch Stuck in the Down Position in Gear 3 Enabled Tap Down Switch Stuck in the Down Position in Gear 4 Enabled Tap Down Switch Stuck in the Down Position in Gear 5 Enabled Tap Down Switch Stuck in the Down Position in Gear 6 Enabled Tap Down Switch Stuck in the Down Position in Gear Neutral Enabled	= 0 Boolean = 0 Boolean = 0 Boolean = 0 Boolean = 0 Boolean = 0 Boolean = 1 Boolean	Time Since Last Range Change	>= 1 Sec		Special No Trip

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Tap Down Switch Stuck in the Down Position in Gear Park Enabled = 1 Boolean					
			Tap Down Switch Stuck in the Down Position in Gear Reverse Enabled = 0 Boolean					
			Tap Down Switch ON = TRUE Boolean				>= 1 sec	
			<u>Fail Case 2</u> Tap Down Switch Stuck in the Down Position in Gear 1 Enabled = 1 Boolean		Time Since Last Range Change	>= 1 Sec		
			Tap Down Switch Stuck in the Down Position in Gear 2 Enabled = 1 Boolean					
			Tap Down Switch Stuck in the Down Position in Gear 3 Enabled = 1 Boolean					
			Tap Down Switch Stuck in the Down Position in Gear 4 Enabled = 1 Boolean					
			Tap Down Switch Stuck in the Down Position in Gear 5 Enabled = 1 Boolean					
			Tap Down Switch Stuck in the Down Position in Gear 6 Enabled = 1 Boolean					
			Tap Down Switch Stuck in the Down Position in Neutral Enabled = 0 Boolean					
			Tap Down Switch Stuck in the Down Position in Park Enabled = 0 Boolean					
			Tap Down Switch Stuck in the Down Position in Reverse Enabled = 0 Boolean					
			Tap Down Switch ON NOTE: Both Failcase1 and Failcase 2 Must Be Met = TRUE Boolean				>= 600 sec	
					Ignition Voltage Lo	>= 8.5996 Volts		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	<= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0826, P0816, P182E, P1761 ECM: None		
Tap Up Tap Down Switch (TUTD)	P0826	Up and Down Shift Switch Circuit	TUTD Circuit Reads Invalid Voltage	= TRUE Boolean			>= 60 Fail Time (Sec)	Special No Trip
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0826, P1761 ECM: None		
Transmission Fluid Pressure Switch	P0842	Transmission Fluid Pressure (TFP) Sensor A Circuit Low Voltage	C35R Hydraulic pressure Hydraulic Delay Timer (Table Based) Check for Switch to be in Exhausted Position after delay, If not then Increment Fail Counter	<= 50 MPH >= See Table 8 for Delay Timer Cal			>= 25 Fail Counts	Special No Trip
					Transmission Fluid Temperature Lo Transmission Fluid Temperature Hi Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi	>= 0 C° <= 120 C° >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Engine Speed is within the allowable limits for	>= 5 Sec		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P0711, P0712, P0713, P0973, P0974, P0976, P0977, P1915, P182E ECM: None		
Transmission Fluid Pressure Switch	P0843	Transmission Fluid Pressure (TFP) Sensor A Circuit High Voltage	C35R Hydraulic pressure Hydraulic Delay Timer (Table Based) Check for Switch to be in Pressureized Position after delay, If not then Increment Fail Counter	>= 700 Kpa >= See Table 8 for Delay Timer Cal Sec			>= 35 Fail Counts	Special No Trip
					Transmission Fluid Temperature Lo Transmission Fluid Temperature Hi Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 0 C° <= 120 C° >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		

09 OBDG03 TRANS Diagnostics

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: P0711, P0712, P0713, P0973, P0974, P0976, P0977, P1915, P182E ECM: None		
Transmission Fluid Pressure Switch	P0872	Transmission Fluid Pressure (TFP) Sensor C Circuit Low Voltage	CB26 Hydraulic pressure Hydraulic Delay Timer (Table Based) Check for Switch to be in Exhausted Position after delay. If not then Increment Fail Counter	<= 50 KPa >= See Table 9 for Delay Timer Cal Sec			>= 18 Fail Counts	Special No Trip
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0711, P0712, P0713, P0973, P0974, P0976, P0977, P1915, P182E ECM: None		
					Transmission Fluid Temperature Lo Transmission Fluid Temperature Hi Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 0 C° <= 120 C° >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Transmission Fluid Pressure Switch	P0873	Transmission Fluid Pressure (TFP) Sensor C Circuit High Voltage	CB26 Hydraulic Pressure	\geq 700 KPa				Special No Trip
			Hydraulic Delay Timer (Table Based)	\geq See Table 9 for Delay Timer Cal Sec			\geq 20 Fail Counts	
			Check for Switch to be in Pressureized Position after delay. If not then Increment Fail Counter					
					Transmission Fluid Temperature Lo \geq 0 C° Transmission Fluid Temperature Hi \leq 120 C° Ignition Voltage Lo \geq 8.5996 Volts Ignition Voltage Hi \leq 18 Volts Engine Speed Lo \geq 500 RPM Engine Speed Hi \leq 7500 RPM Engine Speed is within the allowable limits for \geq 5 Sec			
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0711, P0712, P0713, P0973, P0974, P0976, P0977, P1915, P182E ECM: None		
Transmission Fluid Pressure Switch	P0877	Transmission Fluid Pressure (TFP) Sensor D Circuit Low Voltage	C1234 Hydraulic pressure	\leq 50 KPa				Special No Trip
			Hydraulic Delay Timer (Table Based)	\geq See Table 10 for Delay Timer Cal Sec			\geq 5 Fail Counts	
			Check for Switch to be in Exhausted Position after delay. If not then Increment Fail Counter					
					Transmission Fluid Temperature Lo \geq 0 C° Transmission Fluid Temperature Hi \leq 120 C°			

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0711, P0712, P0713, P0973, P0974, P0976, P0977, P1915, P182E ECM: None		
Transmission Fluid Pressure Switch	P0878	Transmission Fluid Pressure (TFP) Sensor D Circuit High Voltage	C1234 Hydraulic pressure Hydraulic Delay Timer (Table Based) Check for Switch to be in Pressureized Position after delay, If not then Increment Fail Counter	>= 700 KPa >= See Table 10 for Delay Timer Cal Sec			>= 8 Fail Counts	Special No Trip
					Transmission Fluid Temperature Lo Transmission Fluid Temperature Hi Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 0 C° <= 120 C° >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		

09 OBDG03 TRANS Diagnostics

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: P0711, P0712, P0713, P0973, P0974, P0976, P0977, P1915, P182E ECM: None		
Variable Bleed Solenoid (VBS)	P0962	Pressure Control (PC) Solenoid A Control Circuit Low Voltage	Hardware circuitry detects low pressure error	= TRUE Boolean			Fail Time (Sec) \geq 0.3 Sample Time (Sec) = 0.375	One Trip
						P0962 Test Enabled = TRUE Boolean Ignition Voltage Lo \geq 8.5996 Volts Ignition Voltage Hi \leq 18 Volts Engine Speed Lo \geq 500 RPM Engine Speed Hi \leq 7500 RPM Engine Speed is within the allowable limits for Line Pressure Control Solenoid Enabled \geq 5 Sec = TRUE Boolean Disable Conditions: MIL not Illuminated for DTC's: TCM: P0962 ECM: None		
Variable Bleed Solenoid (VBS)	P0966	Pressure Control (PC) Solenoid B Control Circuit Low Voltage	Hardware circuitry detects low pressure error	= TRUE Boolean			Fail Time (Sec) \geq 0.3 Sample Time (Sec) = 0.375	One Trip
						P0966 Test Enabled = TRUE Boolean Ignition Voltage Lo \geq 8.5996 Volts Ignition Voltage Hi \leq 18 Volts Engine Speed Lo \geq 500 RPM		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Engine Speed Hi Engine Speed is within the allowable limits for Line Pressure Control Solinoid Enabled	<= 7500 RPM >= 5 Sec = TRUE Boolean		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0966 ECM: None		
Variable Bleed Solenoid (VBS)	P0967	Pressure Control (PC) Solenoid B Control Circuit High Voltage	Hardware circuitry detects high pressure error	= TRUE Boolean			>= 0.3 Fail Time (Sec) = 0.375 Sample Time (Sec)	One Trip
					P0967 Test Enabled Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	= TRUE Boolean >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0967 ECM: None		
Variable Bleed Solenoid (VBS)	P0970	Pressure Control (PC) Solenoid C Control Circuit Low Voltage	Hardware circuitry detects low pressure error	= TRUE Boolean			>= 0.3 Fail Time (Sec) = 0.375 Sample Time (Sec)	One Trip
					P0970 Test Enabled Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	= TRUE Boolean >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		

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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: P0970 ECM: None		
Variable Bleed Solenoid (VBS)	P0971	Pressure Control (PC) Solenoid C Control Circuit High Voltage	Hardware circuitry detects high pressure error	= TRUE Boolean			>= 0.3 Fail Time (Sec) = 0.375 Sample Time (Sec)	One Trip
Shift Solenoid	P0973	Shift Solenoid A Control Circuit Low	Hardware circuitry detects low pressure error	= TRUE Boolean			>= 1.2 Fail Time (Sec) = 1.5 Sample Time (Sec)	One Trip

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COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Shift Solenoid	P0974	Shift Solenoid A Control Circuit High	Hardware circuitry detects high pressure error	= TRUE Boolean			>= 1.2 Fail Time (Sec) = 1.5 Sample Time (Sec)	Two Trips
					P0974 Test Enabled = TRUE Boolean Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Disable Conditions: MIL not illuminated for DTC's: TCM: P0974 ECM: None			
Mode 3 Multiplex Valve	P0976	Shift Solenoid C Control Circuit High	Hardware circuitry detects high pressure error	= TRUE Boolean			>= 1.2 Sec = 1.5 Sec	One Trip
					P0976 Test Enabled = TRUE Boolean Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Disable Conditions: MIL not illuminated for DTC's: TCM: P0976 ECM: None			
Mode 3 Multiplex Valve	P0977	Shift Solenoid B Control Circuit High	Hardware circuitry detects low pressure error	= TRUE Boolean			>= 1.2 Sec = 1.5 Sec	One Trip
					P0977 Test Enabled = TRUE Boolean Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM			

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Engine Speed Hi Engine Speed is within the allowable limits for	<= 7500 RPM >= 5 Sec		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P0977 ECM: None		
Transmission Fluid Pressure Switch	P0989	Transmission Fluid Pressure (TFP) Sensor E Circuit Low Voltage	CBR1/C456 Hydraulic pressure	<= 50 Kpa				Special No Trip
			Hydraulic Delay Timer (Table Based) Check for Switch to be in Exhausted Position after delay, If not then Increment Fail Counter	>= See Table 11 for Delay Timer Cal Sec			>= 18 Fail Counts	
					Transmission Fluid Temperature Lo Transmission Fluid Temperature Hi Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 0 C° <= 120 C° >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P0711, P0712, P0713, P0973, P0974, P0976, P0977, P1915, P182E ECM: None		
Transmission Fluid Pressure Switch	P0990	Transmission Fluid Pressure (TFP) Sensor E Circuit High Voltage	CBR1/C456 Hydraulic pressure	>= 700 Kpa				Special No Trip

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			<p>Hydraulic Delay Timer (Table Based) \geq See Table 11 for Delay Timer Cal Sec</p> <p>Check for Switch to be in Pressureized Position after delay, If not then Increment Fail Counter</p>				\geq 15 Fail Counts	
					<p>Transmission Fluid Temperature Lo \geq 0 C°</p> <p>Transmission Fluid Temperature Hi \leq 120 C°</p> <p>Ignition Voltage Lo \geq 8.5996 Volts</p> <p>Ignition Voltage Hi \leq 18 Volts</p> <p>Engine Speed Lo \geq 500 RPM</p> <p>Engine Speed Hi \leq 7500 RPM</p> <p>Engine Speed is within the allowable limits for \geq 5 Sec</p> <p>Disable Conditions: MIL not Illuminated for DTC's:</p> <p>TCM: P0711, P0712, P0713, P0973, P0974, P0976, P0977, P1915, P182E</p> <p>ECM: None</p>			
Mode 2 Multiplex Valve	P1751	Shift valve 1 performance	<p>Attained Gear Slip is \geq 100 RPM</p> <p>If Slip is Greater than the Above Cal Increment Fail Counter</p> <p>If Slip is Greater than the Above Cal Increment Fail Sample</p>				<p>= 5 Fail Counts</p> <p>= 5 Fail Samples</p>	Two Trips
					<p>Once this evaluation is complete the system will allow the valve to get back into position by delaying the next test for</p> <p>Attained Gear Slip \geq 100</p> <p>M2 Solenoid is Commanded On = TRUE Boolean</p>	<p>= 1 Seconds</p>		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Current Gear ≠ 2nd Gear	≠ 2nd Gear Gear		
					Calculated line pressure is	>= 110 kPa		
					The test can begin when the M2 valve is verified to be in place because absolute value of attained gear slip and commanded gear slip is	<= 110 RPM		
					Test is delayed by a calibrated amount of time to allow the M2 valve to get into position	= 0.5 Sec		
					Upshift is In Progress	= FALSE Boolean		
					Input Speed Sensor Signal	>= 1175 RPM		
					The torque converter clutch has transition from Locked to Unlocked.	= TRUE Boolean		
					TCC Stuck On Enable Criteria			
					Gear Ratio	<= 1.6393 Ratio		
					Gear Ratio	>= 0.6268 Ratio		
					Engine Speed Hi	<= 6500 RPM		
					Engine Speed Lo	>= 500 RPM		
					Vehicle Speed Hi	<= 511 KPH		
					Vehicle Speed Lo	>= 16 KPH		
					Stuck On During Upshift Enabled? (See above)	= 0 Boolean		
					Upshift is in progress and engine torque is	>= 8191 Nm		
					Down Shift In Progress	= FALSE Boolean		
					Current Gear ≠ 1st Gear Locked	≠ 1st Gear Locked Boolean		
					Engine Torque Hi	<= 1492 Nm		
					Engine Torque Lo	>= 80 Nm		
					Current Range ≠ Reverse	≠ Reverse Range		
					Transmission Sump Temperature	<= 130 C°		
					Transmission Sump Temperature	>= 20 C°		
					PTO Active	= FALSE Boolean		
					Common Enables			
					Vehicle Speed Calculated from TOSS	<= 511 KPH		
					Ignition Voltage	>= 8.5996 V		
					Ignition Voltage	<= 18 V		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Vehicle Speed <= 511 KPH Engine Speed >= 500 RPM Engine Speed <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Engine Torque Signal Valid = TRUE Boolean Throttle Position Signal Valid = TRUE Boolean			
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P0741, P0742, P1751,P 2763, P2764 ECM: P0101, P0102, P0103, P0121, P0122, P0123		
Tap Up Tap Down Switch (TUTD)	P1761	Tap Up and Down switch signal circuit	Serial Data Signal is Corrupted or Missing	= TRUE Boolean			>= 3 Fail Counter <= 10 Sample Timer (Sec)	Special No Trip
					Rolling Count Diagnostic Enabled = TRUE Boolean Tap Up Tap Down Message Health = TRUE Boolean Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec			

09 OBDG03 TRANS Diagnostics

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: None ECM: None			
Mode Switch	P1762	Trans mode switch signal circuit	Serial Data Signal is Corrupted or Missing	= TRUE Boolean			>= 3 <= 10	Fail Counter Sample Timer (Sec)	Special No Trip
					Pattern Switch Rolling Count Diagnostic Enabled = TRUE Boolean Pattern Switch Message Health = TRUE Boolean Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec			Disable Conditions:	
Mode Switch	P1763	Winter Mode Switch	Serial Data Signal is Corrupted or Missing	= TRUE Boolean			>= 600	Fail Time (Sec)	Special No Trip
					Rolling Count Diagnostic Enabled = TRUE Boolean Winter Mode Switch Diagnostic Enabled = TRUE Boolean Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec			Disable Conditions:	
Tap Up Tap Down Switch (TUTD)	P1765	Upshift Switch Circuit #2	<u>Fail Case 1</u> Tap Up Switch Stuck in the Up Position in Gear 1 Enabled	= 0 Boolean	Time Since Last Range Change	>= 1 Enable Time (Sec)		Special No Trip	

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Tap Up Switch Stuck in the Up Position in Gear 2 Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 3 Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 4 Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 5 Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 6 Enabled	= 0 Boolean				
			Tap Up Switch Stuck in the Up Position in Neutral Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Park Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Reverse Enabled	= 0 Boolean				
			Tap Down Switch ON	= TRUE Boolean			>= 1	Fail Time (Sec)
			<u>Fail Case 2</u> Tap Up Switch Stuck in the Up Position in Gear 1 Enabled	= 1 Boolean	Time Since Last Range Change	>= 1 Enable Time (Sec)		
			Tap Up Switch Stuck in the Up Position in Gear 2 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 3 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 4 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 5 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Gear 6 Enabled	= 1 Boolean				
			Tap Up Switch Stuck in the Up Position in Neutral Enabled	= 0 Boolean				

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Tap Up Switch Stuck in the Up Position in Park Enabled Tap Up Switch Stuck in the Up Position in Reverse Enabled Tap Down Switch ON NOTE: Both Failcase1 and Failcase 2 Must Be Met	= 0 Boolean = 0 Boolean = TRUE Boolean			>= 600 Sec Fail Time (Sec)	
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		Disable Conditions: MIL not Illuminated for DTC's: TCM: P1767, P1765, P182E, P1761 ECM: None
Tap Up Tap Down Switch (TUTD)	P1766	Downshift Switch Circuit #2	<u>Fail Case 1</u> Tap Down Switch Stuck in the Down Position in Gear 1 Enabled Tap Down Switch Stuck in the Down Position in Gear 2 Enabled Tap Down Switch Stuck in the Down Position in Gear 3 Enabled Tap Down Switch Stuck in the Down Position in Gear 4 Enabled Tap Down Switch Stuck in the Down Position in Gear 5 Enabled	= 0 Boolean = 0 Boolean = 0 Boolean = 0 Boolean = 0 Boolean	Time Since Last Range Change	>= 1 Sec		Special No Trip

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Tap Down Switch Stuck in the Down Position in Gear 6 Enabled	= 0 Boolean				
			Tap Down Switch Stuck in the Down Position in Gear Neutral Enabled	= 1 Boolean				
			Tap Down Switch Stuck in the Down Position in Gear Park Enabled	= 1 Boolean				
			Tap Down Switch Stuck in the Down Position in Gear Reverse Enabled	= 0 Boolean				
			Tap Down Switch ON	= TRUE Boolean			>= 1 sec	
			<u>Fail Case 2</u> Tap Down Switch Stuck in the Down Position in Gear 1 Enabled	= 1 Boolean	Time Since Last Range Change	>= 1 Sec		
			Tap Down Switch Stuck in the Down Position in Gear 2 Enabled	= 1 Boolean				
			Tap Down Switch Stuck in the Down Position in Gear 3 Enabled	= 1 Boolean				
			Tap Down Switch Stuck in the Down Position in Gear 4 Enabled	= 1 Boolean				
			Tap Down Switch Stuck in the Down Position in Gear 5 Enabled	= 1 Boolean				
			Tap Down Switch Stuck in the Down Position in Gear 6 Enabled	= 1 Boolean				
			Tap Down Switch Stuck in the Down Position in Neutral Enabled	= 0 Boolean				
			Tap Down Switch Stuck in the Down Position in Park Enabled	= 0 Boolean				

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Tap Down Switch Stuck in the Down Position in Reverse Enabled Tap Down Switch ON NOTE: Both Failcase1 and Failcase 2 Must Be Met	= 0 Boolean = TRUE Boolean			>= 600 sec	
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		Disable Conditions: MIL not Illuminated for DTC's: TCM: P1767, P1766, P182E, P1761 ECM: None
Tap Up Tap Down Switch (TUTD)	P1767	Up and Down Shift Switch Circuit #2	TUTD Circuit Reads Invalid Voltage	= TRUE Boolean			>= 60 Fail Time (Sec)	Special No Trip
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec		Disable Conditions: MIL not Illuminated for DTC's: TCM: P1767, P1761 ECM: None
Internal Mode Switch (IMS)	P182E	Internal Mode Switch - Circuit A Low Reported as Internal Mode Switch-Invalid Range	<u>Fail Case 1</u> Current range Previous range	= "Transitional 1" Range State != CeTRGR_PRN DL Drive6 Range State				One Trip

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Previous range Either the S1 or S3 Pressure Switch indicates "Pressure Present" Steady State Engine Torque Steady State Engine Torque If the above conditions are present Increment Fail Timer If Fail Timer has Expired then Increment Fail Counter	!= CeTRGR_PRN DL Drive6 Range State = TRUE Boolean >= -50 Nm <= 1492 Nm >= 0.225 Seconds			>= 15 Fail Counts	
			<u>Fail Case 2</u> Current range S3 Pressure Switch indicates "Pressure Present" Commanded Gear If the above conditions are present Increment Fail Timer If Fail Timer has Expired then Increment Fail Counter	= "Transitional 1" Range State = FALSE Boolean = 1st Locked Gear >= 0.225 Seconds			>= 15 Fail Counts	
			<u>Fail Case 3</u> Current range Either the S1 or S3 Pressure Switch indicates "Pressure Present" Engine Torque Engine Torque If the above conditions are present Increment Fail Timer If Fail Timer has Expired then Increment Fail Counter	= "Transitional 13" = TRUE Boolean >= -1492 Nm <= 1492 Nm >= 0.225 Seconds	Previous range Previous range If the "IMS 7 Position" = 1 then the "previous range" criteria above must also be satisfied when the "current range" = "Transitional 13"	!= CeTR GR_P RNDL_Drive3 != CeTR GR_P RNDL_Drive2	>= 15 Fail Counts	

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			<u>Fail Case 4</u> Current range = "Transitional 2" or "Transitional 8" Either the S1 or S3 Pressure Switch indicates "Pressure Present" Steady State Engine Torque >= -50 Nm Steady State Engine Torque <= 1492 Nm The above conditions are present for >= 0.225 Seconds If the above Conditions have been met, Increment Fail Counter				for 15 Fail Counts	
			<u>Fail Case 5</u> Current range = "Illegal" Current range ≠ Park, Neutral, Reverse, Transitional 8, or Transitional 11 At least one of the IMS Circuits have transitioned from high to low voltage since start-up If the above Conditions are present, Increment Fail timer	= TRUE Boolean			>= 2 Seconds	
			<u>Fail Case 6</u> ECM Park/Neutral Message Current Commanded range = "Park/Neutral" Current range = Park or Neutral Current range ≠ Park, Neutral, Reverse, Transitional 8, or Transitional 11 At least one of the IMS Circuits have transitioned from high to low voltage since start-up If the above Conditions are present, Increment Fail timer	= TRUE Boolean			>= 2 Seconds	
					Ignition Voltage Lo	>= 8.5996 Volts		
					Ignition Voltage Hi	<= 18 Volts		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Vehicle Speed Lo Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	<= 511 KPH >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P182E, P0722, P0723 ECM: P0101, P0102, P0103, P0121, P0122, P0123		
Tap Up Tap Down Switch (TUTD)	P1876	Tap Up and Down Enable Switch Circuit	Current range ≠ CeTRGR_PRN DL Drive6 Range State TUTD/MUMD Mode is Selected = TRUE Boolean Enable Switch is Active = TRUE Boolean The above conditions are present for = TRUE Boolean				>= 2 Fail Time (Sec)	Special No Trip
					Ignition Voltage Lo Ignition Voltage Hi Vehicle Speed Lo Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996 Volts <= 18 Volts <= 511 KPH >= 500 RPM <= 7500 RPM >= 5 Sec		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0815, P0816, P0826, P182E, P1876, U0100 ECM: None		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Engine Speed is within the allowable limits for	>= 5 Sec		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: None ECM: None		
Variable Bleed Solenoid (VBS)	P2714	Pressure Control (PC) Solenoid D Stuck Off [CB26]	Fail Case 1	Case: Steady State 2nd Gear				One Trip
				Gear slip >= 200 RPM			Please See Table 6 >= For sec Neutral Time Cal	
				Intrusive test: commanded 3rd gear If attained Gear = 3rd then increment Fail Counter If attained Gear = 3rd then increment Fail Counter			>= 2 2nd Gear Fail Count Total >= 14 Fail Count	
			Fail Case 2	Case: Steady State 6th Gear				
				Gear slip >= 200 RPM			Please See Table 6 >= For sec Neutral Time Cal	
				Intrusive test: commanded 5th gear If attained Gear = 5th then increment Fail Counter If attained Gear = 5th then increment Fail Counter			>= 2 5th Gear Fail Count Total >= 14 Fail Count	
					PRNDL State defaulted	= FALSE Boolean		
					inhibit RVT	= FALSE Boolean		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					IMS fault pending indication TPS validity flag Hydraulic System Pressurized Minimum output speed for RVT A OR B (A) Output speed enable (B) Accelerator Pedal enable Common Enable Criteria Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Throttle Position Signal Valid	= FALSE Boolean = TRUE Boolean = TRUE Boolean >= 0 RPM >= 16 RPM >= 0.5005 Pct >= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM >= 5 Sec = TRUE Boolean		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P0716, P0717, P0722,, P0723, P182E ECM: P0121, P0122, P0123		
Variable Bleed Solenoid (VBS)	P2715	Pressure Control (PC) Solenoid D Stuck On [CB26] (Dynamic)	Primary Offgoing Clutch is exhausted (See Table 14 thru 18 in Supporting Documents for Exhaust Delay Timers) Primary Oncoming Clutch Pressure Command Status Primary Offgoing Clutch Pressure Command Status Range Shift Status	= TRUE Boolean = Maximum pressurized = Clutch exhaust command ≠ Initial Clutch Control				One Trip

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Attained Gear Slip	<= 40 RPM			Total fail timer (fail timer1 + fail timer2) See Below Enable Timers for Fail Timer 1, and Reference Supporting Table 19 for Fail Timer 2 sec	
			If Attained Gear Slip is Less than Above Call Increment Fail Timers					
			fail timer 1 (2-1 shifting with throttle)	>= 1.200195313	Fail Time (Sec)			
			fail timer 1 (2-1 shifting without throttle)	>= 1.200195313	Fail Time (Sec)			
			fail timer 1 (2-3 shifting with throttle)	>= 1.200195313	Fail Time (Sec)			
			fail timer 1 (2-3 shifting without throttle)	>= 1.200195313	Fail Time (Sec)			
			fail timer 1 (2-4 shifting with throttle)	>= 1.200195313	Fail Time (Sec)			
			fail timer 1 (2-4 shifting without throttle)	>= 1.200195313	Fail Time (Sec)			
			fail timer 1 (6-4 shifting with throttle)	>= 1.200195313	Fail Time (Sec)			
			fail timer 1 (6-4 shifting without throttle)	>= 1.200195313	Fail Time (Sec)			

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			fail timer 1 (6-5 shifting with throttle)	>= 1.200195313 Fail Time (Sec)				
			fail timer 1 (6-5 shifting without throttle)	>= 1.200195313 Fail Time (Sec)				
					Trans oil temperature > 0 C° Input Speed Sensor FA or TFTKO = FALSE Boolean output speed sensor fault = FALSE Boolean Command / Attained Gear ≠ 1st FW Boolean High Side Driver ON = TRUE Boolean output speed limit for TUT >= 350 RPM input speed limit for TUT >= 200 RPM TUT Enable temperature >= 0 C° PRNDL state defaulted = FALSE Boolean IMS Fault Pending = FALSE Boolean Service Fast Learn Mode = FALSE Boolean HSD Enabled = TRUE Boolean			
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P182E ECM: None		
Variable Bleed Solenoid (VBS)	P2715	Pressure Control (PC) Solenoid D Stuck On [CB26] (Steady State)	<u>Fail Case 1</u> Case: Steady State 1st Gear Commanded Gear slip <= 33 MPH Intrusive test: (Exhaust CBR1) If closest gear = 2nd Gear				<= 0.5688 sec	One Trip
			<u>Fail Case 2</u> Case: Steady State 3rd Gear Commanded Gear slip <= 33 MPH Intrusive test: (Exhaust C35R) If Closest gear = 2nd gear				<= 0.5688 sec	
			<u>Fail Case 3</u> Case: Steady State 4rd Gear Commanded Gear slip <= 33 MPH Intrusive test: (Exhaust C1234)					

09 OBDG03 TRANS Diagnostics

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: P2720 ECM: None		
Variable Bleed Solenoid (VBS)	P2721	Pressure Control (PC) Solenoid D Control Circuit Low	Hardware Circuitry Detects a Low Pressure Error	= TRUE Boolean			>= 0.3 Fail Time (Sec) = 0.375 Sample Time (Sec)	One Trip
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi	>= 8.5996 Volts <= 18 Volts >= 500 RPM <= 7500 RPM	Disable Conditions: MIL not Illuminated for DTC's: TCM: P2721 ECM: None	
Variable Bleed Solenoid (VBS)	P2723	Pressure Control (PC) Solenoid E Stuck Off	Fail Case 1 Case: Steady State 1st Gear					One Trip
			Gear slip	>= 200 RPM			Please See Table 6 >= For Neutral Time Cal 1st Gear Fail Count Total >= 2 >= 14 Fail Count	
			Fail Case 2 Case: Steady State 2nd Gear					
			Gear slip	>= 200 RPM			Please See Table 6 >= For Neutral Time Cal 1st Gear Fail Count Total >= 2 >= 14 Fail Count	

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COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
			Intrusive test: commanded 3rd gear If attained Gear ≠ 3rd then increment Fail Counter If attained Gear ≠ 3rd then increment Fail Counter				>= 2 2ndGear Fail Count Total >= 14 Fail Count	
			Fail Case 3 Case: Steady State 3rd Gear					
			Gear slip	>= 200 RPM			>= For Neutral Time Cal	Please See Table 6 sec
			Intrusive test: commanded 4th gear If attained Gear ≠ 4th then increment Fail Counter If attained Gear ≠ 4th then increment Fail Counter				>= 2 3rd Gear Fail Count Total >= 14 Fail Count	
			Fail Case 4 Case: Steady State 4th Gear					
			Gear slip	>= 200 RPM			>= For Neutral Time Cal	Please See Table 6 sec
			Intrusive test: commanded 5th gear If attained Gear = 5th then increment Fail Counter If attained Gear = 5th then increment Fail Counter				>= 2 4th Gear Fail Count Total >= 14 Fail Count	
					PRNDL State defaulted	= FALSE	Boolean	
					inhibit RVT	= FALSE	Boolean	
					IMS fault pending indication	= FALSE	Boolean	

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.	
					TPS validity flag = TRUE Boolean Hydraulic System Pressurized = TRUE Boolean Minimum output speed for RVT A OR B (A) Output speed enable >= 16 RPM (B) Accelerator Pedal enable >= 0.5005 Pct Common Enable Criteria Ignition Voltage Lo >= 8.5996 Volts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Throttle Position Signal Valid = TRUE Boolean				
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E ECM: P0121, P0122, P0123			
Variable Bleed Solenoid (VBS)	P2724	Pressure Control (PC) Solenoid E Stuck On (Dynamic)	Primary Offgoing Clutch is exhausted (See Table 14 thru 18 in Supporting Documents for Exhaust Delay Timers) Primary Oncoming Clutch Pressure Command Status = Maximum pressurized Primary Offgoing Clutch Pressure Command Status = Clutch exhaust command Range Shift Status ≠ Initial Clutch Control	= TRUE Boolean				One Trip	

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.	
			Attained Gear Slip	<= 40 RPM			Total fail timer (fail timer1 + fail timer2) See Below Enable Timers for Fail Timer 1, and Reference Supporting Table 19 for Fail Timer 2		
			fail timer 1 (2-6 shifting with throttle)	>= 1.200195313 sec			sec		
			fail timer 1 (2-6 shifting without throttle)	>= 1.200195313 sec					
			fail timer 1 (3-5 shifting with throttle)	>= 1.200195313 sec					
			fail timer 1 (3-5 shifting without throttle)	>= 1.200195313 sec					
			fail timer 1 (4-5 shifting with throttle)	>= 1.200195313 sec					
			fail timer 1 (4-5 shifting without throttle)	>= 1.200195313 sec					
			fail timer 1 (4-6 shifting with throttle)	>= 1.200195313 sec					
			fail timer 1 (4-6 shifting without throttle)	>= 1.200195313 sec					
					Trans oil temperature	> 0 C°			

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COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Input Speed Sensor FA or TFTKO output speed sensor fault Command / Attained Gear High Side Driver ON output speed limit for TUT input speed limit for TUT TUT Enable temperature PRNDL state defaulted IMS Fault Pending Service Fast Learn Mode	= FALSE = FALSE ≠ 1st FW = TRUE >= 350 RPM >= 200 RPM >= 0 C° = FALSE = FALSE = FALSE		
				Disable Conditions:	MIL not Illuminated for DTC's:			
Variable Bleed Solenoid (VBS)	P2724	Pressure Control (PC) Solenoid E Stuck On	Case: 5th Gear Commanded Gear slip Fail Intrusive test: (C35R clutch exhausted) Case 1 If closest gear Case: 6th Gear Commanded Gear slip Fail Intrusive test: (CB26 clutch exhausted) Case 2 If closest gear	<= 33 MPH = 4th Gear <= 33 MPH = 4th Gear			<= 0.5688 sec <= 0.5688 sec	One Trip
				Disable Conditions:	MIL not Illuminated for DTC's:	output speed >= 0 RPM PRNDL State defaulted = FALSE Boolean inhibit RVT = FALSE Boolean IMS fault pending indication = FALSE Boolean TPS validity flag = TRUE Boolean output speed >= 0 RPM Ignition Voltage Lo >= 8.5996 Vplts Ignition Voltage Hi <= 18 Volts Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec		

09 OBDG03 TRANS Diagnostics

COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
Variable Bleed Solenoid (VBS)	P2729	Pressure Control (PC) Solenoid E Control Circuit High	Hardware Circuitry Detects a High Pressure Error	= TRUE Boolean			>= 0.3 Fail Time (Sec) = 0.375 Sample Time (Sec)	One Trip
					Ignition Voltage Lo >= 8.5996 Volt Ignition Voltage Hi <= 18 Volt Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Disable Conditions: MIL not Illuminated for DTC's: TCM: P2729 ECM: None			
Variable Bleed Solenoid (VBS)	P2730	Pressure Control (PC) Solenoid E Control Circuit Low	Hardware Circuitry Detects a Low Pressure Error	= TRUE Boolean			>= 0.3 Fail Time (Sec) = 0.375 Sample Time (Sec)	One Trip
					Ignition Voltage Lo >= 8.5996 Volt Ignition Voltage Hi <= 18 Volt Engine Speed Lo >= 500 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Disable Conditions: MIL not Illuminated for DTC's: TCM: P2730 ECM: None			
Variable Bleed Solenoid (VBS)	P2763	Torque Converter Clutch Pressure Control Solenoid Control Circuit Low	Hardware Circuitry Detects a High Pressure Error	= TRUE Boolean			>= 4.4 Fail Time (Sec) = 5 Sample Time (Sec)	One Trip
					Ignition Voltage Lo >= 8.5996 Volt Ignition Voltage Hi <= 18 Volt Engine Speed Lo >= 500 RPM			

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COMPONENT/ SYSTEM	FAULT CODE	MONITOR STRATEGY DESCRIPTION	MALFUNCTION CRITERIA	THRESHOLD VALUE	SECONDARY PARAMETERS	ENABLE CONDITIONS	TIME REQUIRED	MIL ILLUM.
					Engine Speed Hi Engine Speed is within the allowable limits for High Side Driver Enabled	<= 7500 RPM >= 5 Sec = TRUE Boolean		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P2763, P2764, P0658, P0659 ECM: None		
Variable Bleed Solenoid (VBS)	P2764	Torque Converter Clutch Pressure Control Solenoid Control Circuit High	Hardware Circuitry Detects a Low Pressure Error	= TRUE Boolean			>= 4.4 MPH = 5 MPH	One Trip
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for High Side Driver Enabled	>= 8.5996 Volt <= 18 Volt >= 500 RPM <= 7500 RPM >= 5 Sec = TRUE Boolean	Disable Conditions: MIL not Illuminated for DTC's:	TCM: P2763, P2764, P0658, P0659 ECM: None
Communication	U0073	Controller Area Network Bus Communication Error	CAN Bus Detects Invalid Message Error	= TRUE Boolean			>= 5 Fail Count = 5 Sample Time (Sec)	One Trip
					Ignition Voltage Lo Ignition Voltage Hi	>= 8.5996 Volt <= 18 Volt		

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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: U0073 ECM: None		
Communication	U0100	Lost Communications with Engine Control System	Comm. Message Invalid From ECU	= TRUE Boolean			= 12 Fail Counts = 12 Sample Counts	One Trip
					Disable Conditions: MIL not Illuminated for DTC's:	Ignition Voltage Lo >= 8.5996 Volt Ignition Voltage Hi <= 18 Volt TCM: U0100 ECM: None		

09 OBDG03 TRANS Diagnostics

Supporting Tables

Table 1

Axis	-40	-0.00781	40	80	120	Units °C
Curve	2500	1000	800	520	200	Sec

Table 2

Axis	0	6.249905	12.49981	18.74971	24.99962	31.24952	37.49943	43.74933	49.99924	56.24914	62.49905	68.74895	74.99886	81.24876	87.49866	93.74857	99.99847
Curve	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800	800

Table 3

Axis	0	64	128	192	256	320	384	448	512	Units Unknown Unit, Action Required
Curve	50	50	50	50	50	50	50	50	50	RPM

Table 4

Axis	-0.00781	0	40	Units °C
Curve	409.5938	2	2	Sec

Table 5

Axis	-0.00781	0	40	Units °C
Curve	409.5938	5.5	5.5	Sec

Table 6

Axis	-0.00781	0	40	Units °C
Curve	409.5938	2	2	Sec

Table 7

Axis	-0.00781	0	40	Units °C
Curve	409.5938	2	2	Sec

Table 8

Axis	-40	-0.00781	40	80	120	Units °C
Curve	409	409	1.6	1.4	1.4	Sec

Table 9

Axis	-40	-0.00781	40	80	120	Units °C
Curve	409	409	1.4	1.3	1.2	Sec

Table 10

Axis	-40	-0.00781	40	80	120	Units °C
Curve	409	409	1.6	1.5	1.4	Sec

Supporting Tables

Table 11

Axis	-40	-0.00781	40	80	120	Units °C
Curve	409	409	1.3	1.2	1.1	Sec

Table 12

Axis	-40	-20	0	30	110	Units °C
Curve	3.029297	1.857422	1.00293	0.754883	0.583984	Sec

Table 13

Axis	-40	-20	0	30	110	Units °C
Curve	1.720703	1.108398	0.595703	0.359375	0.21582	Sec

Table 14

Axis	-40	-20	0	30	110	Units °C
Curve	2.121094	1.393555	0.841797	0.642578	0.332031	Sec

Table 15

Axis	-40	-20	0	30	110	Units °C
Curve	2.507813	0.952148	0.499023	0.292969	0.126953	Sec

Table 16

Axis	-40	-20	0	30	110	Units °C
Curve	2.972656	0.818359	0.47168	0.204102	0.132813	Sec

Table 17

Axis	-40	-30	-20	-10	0	10	20	30	40	Units Unknown Unit, Action Required
Curve	0	0	0	0	0	0	0	0	0	Sec