

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
Transmission Control Module (TCM)	P0601	Transmission Electro-Hydraulic Control Module Read Only Memory	Incorrect program/calibrations checksum	= TRUE Boolean	MIL not Illuminated for DTC's:	TCM: P0601 ECM: None	>= 5 Fail Counts	One Trip
Transmission Control Module (TCM)	P0603	Transmission Electro-Hydraulic Control Module Long-Term Memory Reset	Non-volatile memory (static or dynamic) checksum failure at Powerup	= TRUE Boolean	MIL not Illuminated for DTC's:	TCM: P0603 ECM: None	Runs Continuously	One Trip
Transmission Control Module (TCM)	P0604	Transmission Electro-Hydraulic Control Module Random Access Memory	RAM Read/Write Failure (Single Word)	= TRUE Boolean	MIL not Illuminated for DTC's:	TCM: P0604 ECM: None	>= 5 Fail Counts = 16 Sample Counts	One Trip
Transmission Control Module (TCM)	P062F	Transmission Electro-Hydraulic Control Module Long Term Memory Performance	TCM Non-Volatile Memory bit Incorrect flag at Powerdown	= TRUE Boolean	MIL not Illuminated for DTC's:	TCM: P062F ECM: None	Runs Continuously	One Trip
Transmission Control Module (TCM)	P0634	Transmission Electro-Hydraulic Control Module Internal Temperature Too High	<u>Fail Case 1</u> Substrate Temperature	>= 146.296875 °C			>= 5 Fail Time (Sec)	One Trip

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			<u>Fail Case 2</u>					
			Substrate Temperature	>= 50 °C			>= 2 Fail Time (Sec)	
			Ignition Voltage	>= 18 Volts				
			Note: either fail case can set the DTC					
					Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Substrate Temp Lo >= 0 °C Substrate Temp Hi <= 170 °C Substrate Temp Between Temp Range for Time >= 0.25 Sec P0634 Status is # Test Failed This Key On or Fault Active Disable Conditions: MIL not Illuminated for DTC's: TCM: None ECM: None			
High Side Driver 1	P0658	Actuator Supply Voltage Circuit Low	The HWIO reports a low voltage (open or ground short) error flag	= TRUE Boolean			>= 4 Fail Counts out of 6 Sample Counts	One Trip
					P0658 Status is not =	Test Failed This Key On or Fault Active		

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					High Side Driver 1 On	= True Boolean		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: None ECM: None		
Transmission Control Module (TCM)	P0667	TCM Internal Temp (substrate) Sensor Circuit Range/Performance	If transmission oil temp to substrate temp Δ	> 19 in °C supporting documents				Two Trips
			If TCM substrate temp to power up temp Δ	> 20 in °C supporting documents				
			Both conditions above required to increment fail counter Note: table reference temp = to the median temp of trans oil temp, substrate temp and power up temp.				>= 3000 Fail Counts (100ms loop)	
			Non-continuous (intermittent) fail conditions will delay resetting fail counter until				Out of 3750 Sample Counts (100ms loop)	
							>= 700 Pass Counts (100ms loop)	
					Engine Torque Signal Valid Accelerator Position Signal Valid	= TRUE Boolean = TRUE Boolean		
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi	>= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM		
					Engine Speed is within the allowable limits for Brake torque active	>= 5 Sec = FALSE		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Below describes the brake torque entry criteria Engine Torque >= 90 N*m Throttle >= 30.000305 Pct Transmission Input Speed <= 200 RPM Vehicle Speed <= 8 Kph Transmission Range ≠ Park Transmission Range ≠ Neutral PTO = Not Active Set Brake Torque Active TRUE if above conditions are met for:	>= 7 sec		
					Below describes the brake torque exit criteria Brake torque entry criteria = Not Met Clutch hydraulic pressure ≠ Hydraulic Air Purge Event Clutch used to exit brake torque active = CeTFTD_e_C3_RatE_nbl The above clutch pressure is greater than this value for one loop >= 600 kpa Set Brake Torque Active FALSE if above conditions are met for:	>= 20 Sec ≠ Test Failed This Key On or Fault Active		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0658, P0668, P0669, P06AD, P06AE, P0716, P0712, P0713, P0717, P0722, P0723, P0962, P0963, P0966, P0967, P0970, P0971, P215C, P2720, P2721, P2729, P2730 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, P0401, P042E		
Transmission Control Module (TCM)	P0668	TCM internal temperature (substrate) thermistor failed at a low voltage	Type of Sensor Used	CeTFTL_e_Vol = tageDirectPro p				Two Trips
			If TCM Substrate Temperature Sensor = Direct Proportional and Temp	<= -249 °C				
			If TCM Substrate Temperature Sensor = Indirect Proportional and Temp	>= -249 °C				
		Either condition above will satisfy the fail conditions					>= 60 Fail Timer (Sec)	
					Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Engine Speed Lo >= 400 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec P0668 Status is ≠ Test Failed This Key On or Fault Active			

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: None ECM: None		
Transmission Control Module (TCM)	P0669	TCM internal temperature (substrate) thermistor failed at a high voltage	Type of Sensor Used	=	CeTFTI_e_Vol tageDirectPro p			Two Trips
			If TCM Substrate Temperature Sensor = Direct Proportional and Temp	>=	249 °C			
			If TCM Substrate Temperature Sensor = Indirect Proportional and Temp	<=	249 °C			
			Either condition above will satisfy the fail conditions				>= 60 Fail Timer (Sec)	
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for	>= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec		
					P0669 Status is	≠ Test Failed This Key On or Fault Active		
					For Hybrids, below conditions must also be met			
					Estimated Motor Power Loss	>= 0 kW		
					Estimated Motor Power Loss greater than limit for time	>= 0 Sec		
					Lost Communication with Hybrid Processor Control Module	= FALSE		
					Estimated Motor Power Loss Fault	= FALSE		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723 ECM: None		
Transmission Control Module (TCM)	P06AC	TCM Power-up Temp Sensor Circuit Range/Performance	If TCM power-up temp to substrate temp Δ >	Refer to Table 20 in °C supporting documents				Two Trips
			If transmission oil temp to power up temp Δ >	Refer to Table 18 in °C supporting documents				
			Both conditions above required to increment fail counter Note: table reference temp = to the median temp of trans oil temp, substrate temp and power up temp.				>= 3000 Fail Counts (100ms loop)	
			Non-continuous (intermittent) fail conditions will delay resetting fail counter until				Out of 3750 Sample Counts (100ms loop)	
							>= 700 Pass Counts (100ms loop) Out of 875 Sample Counts (100ms loop)	
					Engine Torque Signal Valid = TRUE Boolean Accelerator Position Signal Valid = TRUE Boolean Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Engine Speed Lo >= 400 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Brake torque active = FALSE			
					Below describes the brake torque entry criteria Engine Torque >= 90 N*m			

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Throttle Transmission Input Speed Vehicle Speed Transmission Range Transmission Range PTO Set Brake Torque Active TRUE if above conditions are met for:	>= 30.000305 Pct <= 200 RPM <= 8 Kph ≠ Park ≠ Neutral = Not Active >= 7 sec		
					Below describes the brake torque exit criteria Brake torque entry criteria Clutch hydraulic pressure Clutch used to exit brake torque active The above clutch pressure is greater than this value for one loop Set Brake Torque Active FALSE if above conditions are met for: P06AC Status is	= Not Met Clutch Hydraulic Air Purge Event CeTFTD_e _C3_RatlE nbl >= 600 kpa >= 20 Sec ≠ Test Failed This Key On or Fault Active		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Disable Conditions: MIL not illuminated for DTC's:	TCM: P0658, P0668, P0669, P06AD, P06AE, P0716, P0712, P0713, P0717, P0722, P0723, P0962, P0963, P0966, P0967, P0970, P0971, P215C, P2720, P2721, P2729, P2730 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, P0401, P042E		
Transmission Control Module (TCM)	P06AD	TCM power-up thermistor circuit voltage low	Power Up Temp	<= -59 °C			>= 60 Fail Time (Sec)	Two Trips
					Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Engine Speed Lo >= 400 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec P06AD Status is ≠ Test Failed This Key On or Fault Active For Hybrids, below conditions must also be met Estimated Motor Power Loss >= 0 kW Estimated Motor Power Loss greater than limit for time >= 0 Sec Lost Communication with Hybrid Processor Control Module = FALSE Estimated Motor Power Loss Fault = FALSE			

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723 ECM: None		
Transmission Control Module (TCM)	P06AE	TCM power-up thermistor circuit voltage high	Power Up Temp	>= 164 °C			>= 60 Fail Time (Sec)	Two Trips
					Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Engine Speed Lo >= 400 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec P06AE Status is ≠ Test Failed This Key On or Fault Active			
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: None ECM: None		
Transmission Fluid Temperature Sensor (TFT)	P0711	Trans Fluid Temp Sensor Circuit Range/Performance	If transmission oil temp to substrate temp Δ	> 19 in °C supporting documents				Two Trips
			If transmission oil temp to power up temp Δ	> 18 in °C supporting documents				
			Both conditions above required to increment fail counter Note: table reference temp = to the median temp of trans oil temp, substrate temp and power up temp.			>= 3000 Fail Counts (100ms loop) Out of 3750 Sample Counts (100ms loop)		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Non-continuous (intermittent) fail conditions will delay resetting fail counter until				>= 700 Pass Counts (100ms loop) Out of 875 Sample Counts (100ms loop)	
					Engine Torque Signal Valid Accelerator Position Signal Valid Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Brake torque active	= TRUE Boolean = TRUE Boolean >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec = FALSE		
					Below describes the brake torque entry criteria Engine Torque Throttle Transmission Input Speed Vehicle Speed Transmission Range Transmission Range PTO Set Brake Torque Active TRUE if above conditions are met for:	>= 90 N*m >= 30.000305 Pct <= 200 RPM <= 8 Kph ≠ Park ≠ Neutral = Not Active >= 7 sec		
					Below describes the brake torque exit criteria Brake torque entry criteria Clutch hydraulic pressure Clutch used to exit brake torque active	= Not Met ≠ Hydraulic Air Purge Event = CeTFTD_e_C3_RatE_nbl		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					The above clutch pressure is greater than this value for one loop Set Brake Torque Active FALSE if above conditions are met for: P0711 Status is	>= 600 kpa >= 20 Sec ≠ Test Failed This Key On or Fault Active		
				Disable Conditions:	MIL not Illuminated for	TCM: P0658, P0668, P0669, P06AD, P06AE, P0716, P0712, P0713, P0717, P0722, P0723, P0962, P0963, P0966, P0967, P0970, P0971, P215C, P2720, P2721, P2729, P2730 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, P0401, P042E		
Transmission Fluid Temperature Sensor (TFT)	P0712	Transmission fluid temperature thermistor failed at a low voltage	Type of Sensor Used If Transmission Fluid Temperature Sensor = Direct Proportional and Temp If Transmission Fluid Temperature Sensor = Indirect Proportional and Temp Either condition above will satisfy the fail conditions	CeTFTI_e_VoltageDirectPro p <= -74 °C >= -74 °C			>= 60 Fail Time (Sec)	Two Trips
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo	>= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Engine Speed Hi Engine Speed is within the allowable limits for P0712 Status is For Hybrids, below conditions must also be met Estimated Motor Power Loss Estimated Motor Power Loss greater than limit for time Lost Communication with Hybrid Processor Control Module Estimated Motor Power Loss Fault	<= 7500 RPM >= 5 Sec ≠ Test Failed This Key On or Fault Active >= 0 kW >= 0 Sec = FALSE = FALSE		
					Disable Conditions:	MIL not Illuminated for DTC's: ECM: None		
Transmission Fluid Temperature Sensor (TFT)	P0713	Transmission fluid temperature thermistor failed at a high voltage	Type of Sensor Used If Transmission Fluid Temperature Sensor = Direct Proportional and Temp If Transmission Fluid Temperature Sensor = Indirect Proportional and Temp	CeTFTLe_Vol tageDirectPro p >= 174 °C <= 174 °C				Two Trips
			Either condition above will satisfy the fail conditions				>= 60 Fail Time (Sec)	
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi	>= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Engine Speed is within the allowable limits for P0713 Status is MIL not Illuminated for Disable Conditions:	>= 5 Sec ≠ Test Failed This Key On or Fault Active TCM: P0713, P0716, P0717, P0722, P0723 ECM: None		
Transmission Input Speed Sensor (TISS)	P0716	Input Speed Sensor Performance	Transmission Input Speed Sensor Drops	>= 1350 RPM			>= 0.8 Fail Time (Sec)	One Trip
					Engine Torque is Engine Torque is Engine Speed Engine Speed Engine Speed is within the allowable limits for Vehicle Speed is Throttle Position is ----- Transmission Input Speed is The previous requirement has been satisfied for ----- The change (loop to loop) in transmission input speed is The previous requirement has been satisfied for Throttle Position Signal Valid Engine Torque Signal Valid Ignition Voltage Ignition Voltage	>= 0 N*m <= 8191.875 N*m >= 400 RPM <= 7500 RPM >= 5 Sec >= 10 Kph >= 0 Pct ----- >= 0 RPM >= 0 Sec ----- < 8191.875 RPM/Loop >= 0 Sec = TRUE Boolean = TRUE Boolean >= 8.5996094 Volts <= 31.990234 Volts		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
					P0716 Status is not Disable Conditions:	Test Failed This Key On or Fault Active TCM: P0717, P0752, P0973, P0974 ECM: P0101, P0102, P0103, P0121, P0122, P0123			
Transmission Input Speed Sensor (TISS)	P0717	Input Speed Sensor Circuit Low Voltage	<u>Fail Case 1</u>	Transmission Input Speed is	< 33 RPM		>= 4.5	Fail Time (Sec)	One Trip
			<u>Fail Case 2</u>	When P0722 DTC Status equal to Test Failed and Transmission Input Speed is	< 1000 RPM	Controller uses a single power supply for the speed sensors	= 1	Boolean	
						Engine Torque is Engine Torque is Vehicle Speed Engine Torque Signal Valid Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed is within the allowable limits for P0717 Status is not Disable Conditions:	>= 50 N*m <= 8191.875 N*m >= 16 Kph = TRUE Boolean >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec Test Failed This Key On or Fault Active TCM: P0722, P0723 ECM: P0101, P0102, P0103		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
Mode Switch	P071A	Transmission Mode Switch A Circuit	Tow Haul Mode Switch state	= TRUE Boolean			>= 600 Fail Time (Sec)	Special No MIL
					Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Engine Speed Lo >= 400 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Disable Conditions: MIL not Illuminated for TCM: P1762 DTC's: ECM: None			
Transmission Output Speed Sensor (TOSS)	P0722	Output Speed Sensor Circuit Low Voltage	Transmission Output Speed Sensor Raw Speed	<= 35 RPM			>= 3.75 Fail Time (Sec)	One Trip
					P0722 Status is not = Test Failed This Key On or Fault Active Transmission Input Speed Check = TRUE Boolean Engine Torque Check = TRUE Boolean Throttle Position >= 8.0001831 Pct Transmission Fluid Temperature >= -40 °C Disable this DTC if the PTO is active = 1 Boolean Engine Torque Signal Valid = TRUE Boolean Throttle Position Signal Valid = TRUE Boolean Ignition Voltage is >= 8.5996094 Volts Ignition Voltage is <= 31.990234 Volts Engine Speed is >= 400 RPM Engine Speed is <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec			
					Enable_Flags Defined Below			

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
					The Engine Torque Check is TRUE, if either of the two following conditions are TRUE Engine Torque Condition 1 Range Shift Status ≠ Range shift completed ENUM OR Transmission Range is = Park or Neutral Engine Torque is >= 8191.75 N*m Engine Torque is <= 8191.75 N*m Engine Torque Condition 2 Engine Torque is >= 35 N*m Engine Torque is <= 8191.75 N*m				
					The Transmission Input Speed (TIS) Check is TRUE, if either of the two following conditions are TRUE TIS Check Condition 1 Transmission Input Speed is >= 1000 RPM Transmission Input Speed is <= 8191 RPM TIS Check Condition 2 Engine Speed without the brake applied is >= 3200 RPM Engine Speed with the brake applied is >= 3200 RPM Engine Speed is <= 8191 RPM Controller uses a single power supply for the speed sensors = 1 Boolean Powertrain Brake Pedal is Valid = TRUE Boolean				

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0723 ECM: P0101, P0102, P0103, P0121, P0122, P0123			
Transmission Output Speed Sensor (TOSS)	P0723	Output Speed Sensor Circuit Intermittent	Transmission Output Speed	>= 105 RPM			>= 0.2	Enable Time (Sec)	One Trip
			Output Speed Delta	<= 8191 RPM			>= 0	Enable Time (Sec)	
			Output Speed Drop	> 650 RPM			>= 1.5	Output Speed Drop Recovery Fail Time (Sec)	
			AND Transmission Range is	= Driven range (R,D)					
					----- Range_Disable OR ----- Neutral_Range_Enable And Neutral_Speed_Enable are TRUE concurrently -----	= FALSE See Below = TRUE See Below = TRUE See Below			
					Transmission_Range_Enable Transmission_Input_Speed_En able No Change in Transfer Case Range (High <-> Low) for P0723 Status is not Disable this DTC if the PTO is active Ignition Voltage is Ignition Voltage is Engine Speed is Engine Speed is	= TRUE See Below = TRUE See Below >= 5 Seconds = Test Failed This Key On or Fault Active = 1 Boolean >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM			

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Engine Speed is within the allowable limits for Enable_Flags Defined Below	>= 5 Sec		
					Transmission_Input_Speed_Enable is TRUE when either TIS Condition 1 or TIS Condition 2 is TRUE: TIS Condition 1 is TRUE when both of the following conditions are satisfied for Input Speed Delta <= 4095 RPM Raw Input Speed >= 500 RPM TIS Condition 2 is TRUE when ALL of the next two conditions are satisfied Input Speed = 0 RPM A Single Power Supply is used for all speed sensors = TRUE Boolean	>= 0 Enable Time (Sec) <= 4095 RPM >= 500 RPM = 0 RPM = TRUE Boolean		
					Neutral_Range_Enable is TRUE when any of the next 3 conditions are TRUE Transmission Range is Transmission Range is Transmission Range is And when a drop occurs Loop to Loop Drop of Transmission Output Speed is	= Neutral ENUM = Reverse/Neutral/Transitonal ENUM = Neutral/Drive/Transitonal ENUM > 650 RPM		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Range_Disable is TRUE when any of the next three conditions are TRUE Transmission Range is	= Park ENUM = Park/Reverse Transitional ENUM = ON (Fully Applied) ENUM		
					Neutral_Speed_Enable is TRUE when All of the next three conditions are satisfied for Transmission Output Speed The loop to loop change of the Transmission Output Speed is The loop to loop change of the Transmission Output Speed is	> 1.5 Seconds > 130 RPM < 20 RPM > -10 RPM		
					Transmission_Range_Enable is TRUE when one of the next six conditions is TRUE Transmission Range is Transmission Range is Transmission Range is	= Neutral Reverse/Neutral Transitional ENUM = Neutral/Drive Transitional ENUM = Neutral/Drive Transitional ENUM		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Time since a driven range (R,D) has been selected	>= Table Based Time Please Refer to Table 21 in supporting documents Sec		
					Transmission Output Speed Sensor Raw Speed	>= 500 RPM		
					Output Speed when a fault was detected	>= 500 RPM		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0973, P0974, P0976, P0977 ECM: P0101, P0102, P0103, P0121, P0122, P0123		
Torque Converter Clutch (TCC)	P0741	TCC System Stuck OFF	TCC Pressure Either Condition (A) or (B) Must be Met	>= 750 Kpa			>= 2 Enable Time (Sec)	Two Trips
			(A) TCC Slip Error @ TCC On Mode	>= Refer to Table 1 in Supporting Documents RPM			>= 5 Fail Time (Sec)	
			(B) TCC Slip @ Lock On Mode If Above Conditions Have been Met, and Fail Timer Expired, Increment Fail Counter	>= 130 RPM			>= 5 Fail Time (Sec) >= 2 TCC Stuck Off Fail Counter	
					TCC Mode	= On or Lock		
					Ignition Voltage Lo	>= 8.5996094 Volts		
					Ignition Voltage Hi	<= 31.990234 Volts		
					Engine Speed	>= 400 RPM		
					Engine Speed	<= 7500 RPM		

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					Engine Speed is within the allowable limits for	>= 5 Sec		
					Engine Torque Lo	>= 50 N*m		
					Engine Torque Hi	<= 8191.875 N*m		
					Throttle Position Lo	>= 8.0001831 Pct		
					Throttle Position Hi	<= 99.998474 Pct		
					2nd Gear Ratio Lo	>= 2.6710205 Ratio		
					2nd Gear Ratio High	<= 3.072998 Ratio		
					3rd Gear Ratio Lo	>= 1.7130127 Ratio		
					3rd Gear Ratio High	<= 1.9709473 Ratio		
					4th Gear Ratio Lo	>= 1.3150635 Ratio		
					4th Gear Ratio High	<= 1.5129395 Ratio		
					5th Gear Ratio Lo	>= 0.9300537 Ratio		
					5th Gear Ratio Hi	<= 1.0699463 Ratio		
					6th Gear Ratio Lo	>= 0.6900635 Ratio		
					6th Gear Ratio High	<= 0.7939453 Ratio		
					Transmission Fluid Temperature Lo	>= -6.664063 °C		
					Transmission Fluid Temperature Hi	<= 130 °C		
					PTO Not Active	= TRUE Boolean		
					Engine Torque Signal Valid	= TRUE Boolean		
					Throttle Position Signal Valid	= TRUE Boolean		
					Dynamic Mode	= FALSE Boolean		
					P0741 Status is	Test Failed This Key On or Fault Active ≠		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Disable Conditions: MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P0742, P2763, P2764 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, P0401, P042E		
Torque Converter Clutch (TCC)	P0742	TCC System Stuck ON	TCC Slip Speed	>=	-50 RPM			One Trip
			TCC Slip Speed	<=	13 RPM			
			If Above Conditions Have been Met, and Fail Timer Expired, Increment Fail Counter				>= 2 Fail Time (Sec) >= 6 Fail Counter	
					TCC Mode	= Off		
					Enable test if Cmnd Gear = 1stFW and value true	= 1 Boolean		
					Enable test if Cmnd Gear = 2nd and value true	= 0 Boolean		
					Engine Speed Hi	<= 6000 RPM		
					Engine Speed Lo	>= 500 RPM		
					Vehicle Speed Hi	<= 511 KPH		
					Vehicle Speed Lo	>= 1 KPH		
					Engine Torque Hi	<= 8191.875 Nm		
					Engine Torque Lo	>= 80 Nm		
					Current Range	≠ Neutral Range		
					Current Range	≠ Reverse Range		
					Transmission Sump Temperature	<= 130 °C		
					Transmission Sump Temperature	>= 18 °C		
					Throttle Position Hyst High AND	>= 5.0003052 Pct		
					Max Vehicle Speed to Meet Throttle Enable	<= 8 KPH		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Once Hyst High has been met, the enable will remain while Throttle Position	>= 2.0004272 Pct		
					Disable for Throttle Position	>= 75 Pct		
					Disable if PTO active and value true	= 1 Boolean		
					Disable if in D1 and value true	= 1 Boolean		
					Disable if in D2 and value true	= 1 Boolean		
					Disable if in D3 and value true	= 1 Boolean		
					Disable if in D4 and value true	= 1 Boolean		
					Disable if in D5 and value true	= 1 Boolean		
					Disable if in MUMD and value true	= 1 Boolean		
					Disable if in TUTD and value true	= 1 Boolean		
					4 Wheel Drive Low Active	= FALSE Boolean		
					Disable if Air Purge active and value false	= 0 Boolean		
					RVT Diagnostic Active	= FALSE Boolean		
					Ignition Voltage	>= 8.5996094 V		
					Ignition Voltage	<= 31.990234 V		
					Vehicle Speed	<= 511 KPH		
					Engine Speed	>= 400 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		
					P0742 Status is	≠ Test Failed This Key On or Fault Active		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P0741, P2763, P2764 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, P0401, P042E		
Mode 2 Multiplex Valve	P0751	Shift Solenoid Valve A Stuck Off	Commaned Gear Slip Commanded Gear Gear Ratio Gear Ratio If the above parameters are true	>= 400 RPM = 1st Lock rpm <= 1.484985352 >= 1.343017578			>= 0.3 Fail Tmr = 5 Fail Counts ≠ 0 Neutral Timer (Sec) >= 0.3 Fail Timer (Sec) >= 8 Counts	Two Trips
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Transmission Fluid Temperature Range Shift State TPS OR Output Speed Throttle Position Signal Valid from ECM	>= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec >= -6.65625 °C = Range Shift ENUM Completed >= 0.5004883 % >= 36 RPM = TRUE Boolean		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Engine Torque Signal Valid from ECM, High side driver is enabled High-Side Driver is Enabled Input Speed Sensor fault Output Speed Sensor fault Default Gear Option is not present	= TRUE Boolean = TRUE Boolean = FALSE Boolean = FALSE Boolean = TRUE		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Mode 2 Multiplex Valve	P0752	Shift Solenoid Valve A Stuck On	Gear Box Slip Commanded Gear Commanded Gear has Achieved 1st Locked OR 1st Free-Wheel OR 2nd with Mode 2 Sol. Commanded On If the above parameters are true Command 4th Gear once Output Shaft Speed If Gear Ratio And Gear Ratio	>= 400 RPM = 3rd Gear = TRUE Boolean <= 800 RPM >= 4.259765625 <= 4.708251953			Please Refer to Table 16 in Supporting Documents >= Neutral Timer (Sec) >= 1.5 Fail Timer (Sec) >= 5 Counts	One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Engine Speed Lo >= 400 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 >= 36 RPM >= 0.5004883 % Range Shift State = Range Shift Completed ENUM Transmission Fluid Temperature >= -6.65625 °C Input Speed Sensor fault = FALSE Boolean Output Speed Sensor fault = FALSE Boolean Default Gear Option is not present = TRUE	Disable Conditions: MIL not illuminated for DTC's: TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Mode 2 Multiplex Valve	P0756	Shift Solenoid Valve B Stuck Off	<u>Fail Case 1</u>	Commanded Gear = 1st Locked Gear Box Slip >= 400 RPM			Please Refer to Table 5 in Supporting Documents Neutral Timer (Sec)	One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Intrusive Shift to 2nd Commanded Gear Previous Gear Ratio <= 3.015991211 Gear Ratio >= 2.728027344 If the above parameters are true				>= 1 sec >= 3 counts	
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Output Speed OR TPS Range Shift State Transmission Fluid Temperature High-Side Driver is Enabled Throttle Position Signal Valid from ECM Input Speed Sensor fault Output Speed Sensor fault Default Gear Option is not present	>= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec >= 36 RPM = Range Shift ENUM Completed >= -6.65625 °C = TRUE Boolean = TRUE Boolean = FALSE Boolean = FALSE Boolean = TRUE		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P0776	Pressure Control (PC) Solenoid B Stuck Off [C35R]	<u>Fail Case 1</u>	Case: Steady State 3rd Gear Commanded Gear = 3rd Gear Gearbox Slip >= 400 RPM Command 4th Gear once Output Shaft Speed <= 800 RPM If Gear Ratio >= 1.343261719 And Gear Ratio <= 1.484741211 If the above conditiations are true, Increment 3rd gear fail counter and C35R Fail counter			Please Refer to Table 16 in Neutral Timer Supporting Documents (Sec) >= 3 Fail Timer (Sec) >= 3 3rd Gear Fail Counts or >= 14 3-5R Clutch Fail Counts	One Trip
			<u>Fail Case 2</u>	Case: Steady State 5th Gear Commanded Gear = 5th Gear Gearbox Slip >= 400 Rpm Intrusive Test: Command 6th Gear			Please Refer to Table 5 in Neutral Timer Supporting Documents (Sec) >=	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			<p>If attained Gear=6th gear Time</p> <p>If the above conditiations are true, Increment 5th gear fail counter</p> <p>and C35R Fail counter</p>	<p>>=</p> <p>Please refer to Table 3 in supporting documents</p> <p>Shift Time (Sec)</p>			<p>>= 3 5th Gear Fail Counts or >= 14 3-5R Clutch Fail Counts</p>	
					<p>PRNDL State defaulted</p> <p>inhibit RVT</p> <p>IMS fault pending indication</p> <p>TPS validity flag</p> <p>Hydraulic System Pressurized</p> <p>Minimum output speed for RVT</p> <p>A OR B</p> <p>(A) Output speed enable</p> <p>(B) Accelerator Pedal enable</p> <p>Common Enable Criteria</p> <p>Ignition Voltage Lo</p> <p>Ignition Voltage Hi</p> <p>Engine Speed Lo</p> <p>Engine Speed Hi</p> <p>Engine Speed is within the allowable limits for</p> <p>Throttle Position Signal valid</p> <p>HSD Enabled</p> <p>Transmission Fluid Temperature</p> <p>Input Speed Sensor fault</p> <p>Output Speed Sensor fault</p> <p>Default Gear Option is not present</p>	<p>= FALSE Boolean</p> <p>= FALSE Boolean</p> <p>= FALSE Boolean</p> <p>= TRUE Boolean</p> <p>= TRUE Boolean</p> <p>>= 36 RPM</p> <p>A OR B</p> <p>>= 36 RPM</p> <p>>= 0.5004883 Pct</p> <p>>= 8.5996094 Volts</p> <p><= 31.990234 Volts</p> <p>>= 400 RPM</p> <p><= 7500 RPM</p> <p>>= 5 Sec</p> <p>= TRUE Boolean</p> <p>= TRUE Boolean</p> <p>>= -6.65625 °C</p> <p>= FALSE Boolean</p> <p>= FALSE Boolean</p> <p>= TRUE</p>		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P0777	Pressure Control (PC) Solenoid B Stuck On [C35R] (Steady State)	<u>Fail Case 1</u>	Case: Steady State 1st Attained Gear slip >= 400 RPM Table Based Time Please If the Above is True for Time >= 4 in (Sec) Refer to Table Enable Time supporting documents Intrusive test: (CBR1 clutch exhausted) Gear Ratio <= 1.933959961 Gear Ratio >= 1.75 If the above parameters are true			>= 1.1 Fail Timer (Sec) >= 2 Fail Count in 1st Gear or >= 3 Total Fail Counts	One Trip
			<u>Fail Case 2</u>	Case: Steady State 2nd gear Max Delta Output Speed Hysteresis >= 22 in rpm/sec Table Based value Please Refer to Table supporting documents				

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Min Delta Output Speed Hysteresis	Table Based value Please Refer to Table 23 in rpm/sec supporting documents Table Based Time Please Refer to Table 17 in Sec supporting documents Intrusive test: (CB26 clutch exhausted) Gear Ratio <= 1.933959961 Gear Ratio >= 1.75 If the above parameters are true			>= 1.1 Fail Timer (Sec) >= 3 Fail Count in 2nd Gear or >= 3 Total Fail Counts	
			<u>Fail Case 3</u> Case: Steady State 4th gear Max Delta Output Speed Hysteresis Min Delta Output Speed Hysteresis	Table Based value Please Refer to Table 22 in rpm/sec supporting documents Table Based value Please Refer to Table 23 in rpm/sec supporting documents				

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			If the Above is True for Time Intrusive test: (C1234 clutch exhausted) Gear Ratio Gear Ratio If the above parameters are true	Table Based Time Please Refer to Table >= 17 in Sec supporting documents <= 1.050048828 >= 0.949951172			>= 1.1 Fail Timer (Sec) >= 3 Fail Count in 4th Gear or >= 3 Total Fail Counts	
			<u>Fail Case 4</u> Case: Steady State 6th gear Max Delta Output Speed Hysteresis Min Delta Output Speed Hysteresis If the Above is True for Time Intrusive test: (CB26 clutch exhausted)	Table Based value Please Refer to Table >= 22 in rpm/sec supporting documents Table Based value Please Refer to Table >= 23 in rpm/sec supporting documents Table Based Time Please Refer to Table >= 17 in Sec supporting documents				

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Gear Ratio <= 1.050048828 Gear Ratio >= 0.949951172 If the above parameters are true				>= 1.1 Fail Timer (Sec) >= 3 counts >= 1.1 Fail Timer (Sec) >= 3 Fail Count in 6th Gear or Total Fail Counts >= 3	
					PRNDL State defaulted = FALSE Boolean inhibit RVT = FALSE Boolean IMS fault pending indication = FALSE Boolean output speed >= 0 RPM TPS validity flag = TRUE Boolean HSD Enabled = TRUE Boolean Hydraulic_System_Pressurized = TRUE Boolean A OR B (A) Output speed enable >= 36 Nm (B) Accelerator Pedal enable >= 0.5004883 Nm Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Engine Speed Lo >= 400 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec if Attained Gear=1st FW Accelerator Pedal enable >= 5.0003052 Pct if Attained Gear=1st FW Engine Torque Enable >= 20 Nm if Attained Gear=1st FW Engine Torque Enable <= 8191.875 Nm Transmission Fluid Temperature >= -6.65625 °C Input Speed Sensor fault = FALSE Boolean Output Speed Sensor fault = FALSE Boolean			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P0777	Pressure Control (PC) Solenoid B StuckOn [C35R] (Dymanic)	<p>Primary Offgoing Clutch is exhausted (See Table 12 in Supporting Documents for Exhaust Delay Timers)</p> <p>Primary Oncoming Clutch Pressure Command Status</p> <p>Primary Offgoing Clutch Pressure Command Status</p> <p>Range Shift Status</p> <p>Attained Gear Slip</p> <p>If the above conditions are true run appropriate Fail 1 Timers Below:</p> <p>fail timer 1 (3-1 shifting with Closed Throttle)</p> <p>fail timer 1 (3-2 shifting with Throttle)</p> <p>fail timer 1 (3-2 shifting with Closed Throttle)</p> <p>fail timer 1 (3-4 shifting with Throttle)</p> <p>fail timer 1 (3-4shifting with Closed Throttle)</p> <p>fail timer 1 (3-5 shifting with Throttle)</p>	<p>= TRUE Boolean</p> <p>= Maximum pressurized</p> <p>= Clutch exhaust command</p> <p>≠ Initial Clutch Control</p> <p><= 40 RPM</p> <p>>= 0.5 Fail Time (Sec)</p>				One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			fail timer 1 (3-5 shifting with Closed Throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (5-3 shifting with Throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (5-3 shifting with Closed Throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (5-4 shifting with Throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (5-4 shifting with Closed Throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (5-6 shifting with Throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (5-6 shifting with Closed Throttle)	>= 0.5	Fail Time (Sec)			
			If Attained Gear Slip is Less than Above Cal Increment Fail Timers				>= 1, and Reference Supporting Table 15 for Fail Timer 2	sec
			If fail timer is greater than threshold increment corresponding gear fail counter and total fail counter					
			3rd gear fail counter				>= 3	3rd gear fail counts OR
			5th gear fail counter				>= 5	5th gear fail counts OR
			Total fail counter				>= 5	total fail counts
					TUT Enable temperature	>= -6.65625 °C		
					Input Speed Sensor fault	= FALSE Boolean		
					Output Speed Sensor fault	= FALSE Boolean		
					Command / Attained Gear	≠ 1st Boolean		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					High Side Driver ON output speed limit for TUT input speed limit for TUT PRNDL state defaulted IMS Fault Pending Service Fast Learn Mode HSD Enabled Default Gear Option is not present	= TRUE Boolean >= 100 RPM >= 200 RPM = FALSE Boolean = FALSE Boolean = FALSE Boolean = TRUE Boolean = TRUE		
					Disable Conditions:	MIL not Illuminated for DTC's: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
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					One Trip
			Gear slip Intrusive test: commanded 5th gear If attained Gear #5th for time if the above conditions have been met Increment 4th Gear Fail Counter	>= 400 RPM >= Shift Time (Sec) Please refer to Table 3 in Supporting Documents		Please See Table 5 For Neutral Time Cal Neutral Timer (Sec) 4th Gear Fail Count OR	>= 3	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			and C456 Fail Counters				>= 14 C456 Fail Counts	
			<u>Fail Case 2</u> Case: Steady State 5th Gear					
			Gear slip	>= 400 RPM			>= Please See Table 5 For Neutral Time Cal Neutral Timer (Sec)	
			Intrusive test: commanded 6th gear					
			If attained Gear ≠ 6th for time	>=	Please Refer to Table 3 in Supporting Documents	Shift Time (Sec)		
			if the above conditions have been met					
			Increment 5th Gear Fail Counter				>= 3 5th Gear Fail Count OR	
			and C456 Fail Counters				>= 14 C456 Fail Counts	
			<u>Fail Case 3</u> Case: Steady State 6th Gear					
			Gear slip	>= 400 RPM			>= Please See Table 5 For Neutral Time Cal Neutral Timer (Sec)	
			Intrusive test: commanded 5th gear					
			If attained Gear ≠ 5th for time	>=	Please refer to Table 3 in Supporting Documents	Shift Time (Sec)		
			if the above conditions have been met					
			Increment 6th Gear Fail Counter and C456 Fail Counter				>= 3 6th Gear Fail Count OR	
			and C456 Fail Counter				>= 14 C456 Fail Counts	
					PRNDL State defaulted	= FALSE Boolean		
					inhibit RVT	= FALSE Boolean		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
					IMS fault pending indication = FALSE Boolean TPS validity flag = TRUE Boolean Hydraulic System Pressurized = TRUE Boolean Minimum output speed for RVT >= 36 RPM A OR B (A) Output speed enable >= 36 RPM (B) Accelerator Pedal enable >= 0.5004883 Pct Common Enable Criteria Ignition Voltage Lo >= 8.5996094 Volts Ignition Voltage Hi <= 31.990234 Volts Engine Speed Lo >= 400 RPM Engine Speed Hi <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Throttle Position Signal valid = TRUE Boolean HSD Enabled = TRUE Boolean Transmission Fluid Temperature >= -6.65625 °C Input Speed Sensor fault = FALSE Boolean OutputSpeed Sensor fault = FALSE Boolean Default Gear Option is not present = TRUE				
					Disable Conditions: MIL not Illuminated for DTC's: TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E				
Variable Bleed Solenoid (VBS)	P0797	Pressure Control (PC) Solenoid C Stuck On [C456] (Steady State)	<u>Fail Case 1</u> Case: Steady State 1st Attained Gear slip	>= 400 RPM				One Trip	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			If the Above is True for Time Intrusive test: (CBR1 clutch exhausted) Gear Ratio Gear Ratio If the above parameters are true	Table Based Time Please Refer to Table Enable Time >= 4 in (Sec) supporting documents <= 1.484985352 >= 1.343017578			>= 1.1 Fail Timer (Sec) >= 2 Fail Count in 1st Gear or >= 3 Total Fail Counts	
			<u>Fail Case 2</u> Case Steady State 2nd Max Delta Output Speed Hysteresis Min Delta Output Speed Hysteresis If the Above is True for Time Intrusive test: (CB26 clutch exhausted) Gear Ratio	Table Based value Please Refer to Table >= 22 in rpm/sec supporting documents Table Based value Please Refer to Table >= 23 in rpm/sec supporting documents Table Based Time Please Refer to Table >= 17 in Sec supporting documents <= 1.484985352				

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Gear Ratio If the above parameters are true	>= 1.343017578			>= 1.1 Fail Timer (Sec) >= 3 Fail Count in 2nd Gear or >= 3 Total fail counts	
		<u>Fail Case 3</u>	Case Steady State 3rd	Table Based value Please Refer to Table				
			Max Delta Output Speed Hysteresis	>= 22 in rpm/sec supporting documents				
			Min Delta Output Speed Hysteresis	>= 23 in rpm/sec supporting documents				
			If the Above is True for Time	>= 17 in Sec supporting documents				
			Intrusive test: (C35R clutch exhausted)					
			Gear Ratio	<= 1.484985352				
			Gear Ratio	>= 1.343017578				
			If the above parameters are true				>= 1.1 Fail Timer (Sec) >= 3 Fail Count in 3rd Gear OR	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
							>= 3	Total Fail Counts
					PRNDL State defaulted	= FALSE Boolean		
					inhibit RVT	= FALSE Boolean		
					IMS fault pending indication	= FALSE Boolean		
					output speed	>= 0 RPM		
					TPS validity flag	= TRUE Boolean		
					HSD Enabled	= TRUE Boolean		
					Hydraulic_System_Pressurized	= TRUE Boolean		
					A OR B			
					(A) Output speed enable	>= 36 Nm		
					(B) Accelerator Pedal enable	>= 0.5004883 Nm		
					Ignition Voltage Lo	>= 8.5996094 Volts		
					Ignition Voltage Hi	<= 31.990234 Volts		
					Engine Speed Lo	>= 400 RPM		
					Engine Speed Hi	<= 7500 RPM		
					Engine Speed is within the allowable limits for	>= 5 Sec		
					if Attained Gear=1st FW			
					Accelerator Pedal enable	>= 5.0003052 Pct		
					if Attained Gear=1st FW			
					Engine Torque Enable	>= 20 Nm		
					if Attained Gear=1st FW			
					Engine Torque Enable	<= 8191.875 Nm		
					Transmission Fluid Temperature	>= -6.65625 °C		
					Input Speed Sensor fault	= FALSE Boolean		
					Output Speed Sensor fault	= FALSE Boolean		
					Default Gear Option is not present	= TRUE		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P0797	Pressure Control (PC) Solenoid C Stuck On [C456] (Dynamic)	Primary Offgoing Clutch is exhausted (See Table 11 in Supporting Documents for Exhaust Delay Timers) Primary Oncoming Clutch Pressure Command Status Primary Offgoing Clutch Pressure Command Status Range Shift Status Attained Gear Slip If the above conditions are true increment appropriate Fail 1 Timers Below: fail timer 1 (4-1 shifting with throttle) fail timer 1 (4-1 shifting without throttle) fail timer 1 (4-2 shifting with throttle) fail timer 1 (4-2 shifting without throttle) fail timer 1 (4-3 shifting with throttle) fail timer 1 (4-3 shifting without throttle)	= TRUE Boolean = Maximum pressurized = Clutch exhaust command ≠ Initial Clutch Control ≤ 40 RPM ≥ 0.5 Fail Time (Sec) ≥ 0.5 Fail Time (Sec)				One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			fail timer 1 (5-3 shifting with throttle)	>= 0.5 Fail Time (Sec)			Total Fail Time = (Fail 1 + Fail 2) See Enable Timers for Fail Timer 1, and Reference Supporting Table 15 for Fail Timer 2	
			fail timer 1 (5-3 shifting without throttle)	>= 0.5 Fail Time (Sec)				
			fail timer 1 (6-2 shifting with throttle)	>= 0.5 Fail Time (Sec)				
			fail timer 1 (6-2 shifting without throttle)	>= 0.5 Fail Time (Sec)				
			If Attained Gear Slip is Less than Above Cal Increment Fail Timers					sec
			If fail timer is greater than threshold increment corresponding gear fail counter and total fail counter					
			4th gear fail counter				>= 3	Fail Counter From 4th Gear OR
			5th gear fail counter				>= 3	Fail Counter From 5th Gear OR
			6th gear fail counter				>= 3	Fail Counter From 6th Gear OR
			Total fail counter				>= 5	Total Fail Counter
					TUT Enable temperature	>= -6.65625 °C		
					Input Speed Sensor fault	= FALSE Boolean		
					Output Speed Sensor fault	= FALSE Boolean		
					Command / Attained Gear	≠ 1st Boolean		
					High Side Driver ON	= TRUE Boolean		
					output speed limit for TUT	>= 100 RPM		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
					input speed limit for TUT PRNDL state defaulted IMS Fault Pending Service Fast Learn Mode HSD Enabled	>= 200 RPM = FALSE Boolean = FALSE Boolean = FALSE Boolean = TRUE Boolean			
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E			
Tap Up Tap Down Switch (TUTD)	P0815	Upshift Switch Circuit	<u>Fail Case 1</u>	Tap Up Switch Stuck in the Up Position in Range 1 Enabled	= 0 Boolean				Special No MIL
				Tap Up Switch Stuck in the Up Position in Range 2 Enabled	= 0 Boolean				
				Tap Up Switch Stuck in the Up Position in Range 3 Enabled	= 0 Boolean				
				Tap Up Switch Stuck in the Up Position in Range 4 Enabled	= 0 Boolean				
				Tap Up Switch Stuck in the Up Position in Range 5 Enabled	= 0 Boolean				
				Tap Up Switch Stuck in the Up Position in Range 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 Up Switch ON	= TRUE Boolean				
		<u>Fail Case 2</u>	Tap Up Switch Stuck in the Up Position in Range 1 Enabled	= 1 Boolean					

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					P0815 Status is	≠ Test Failed This Key On or Fault Active		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0816, P0826, P182E, P1876, P1877, P1915, 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 Range 1 Enabled = 0 Boolean Tap Down Switch Stuck in the Down Position in Range 2 Enabled = 0 Boolean Tap Down Switch Stuck in the Down Position in Range 3 Enabled = 0 Boolean Tap Down Switch Stuck in the Down Position in Range 4 Enabled = 0 Boolean Tap Down Switch Stuck in the Down Position in Range 5 Enabled = 0 Boolean Tap Down Switch Stuck in the Down Position in Range 6 Enabled = 0 Boolean Tap Down Switch Stuck in the Down Position in Range Neutral Enabled = 1 Boolean Tap Down Switch Stuck in the Down Position in Range Park Enabled = 1 Boolean Tap Down Switch Stuck in the Down Position in Range Reverse Enabled = 0 Boolean Tap Down Switch ON = TRUE Boolean				>= 1 sec	Special No MIL

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			<u>Fail Case 2</u> Tap Down Switch Stuck in the Down Position in Range 1 Enabled = 1 Boolean Tap Down Switch Stuck in the Down Position in Range 2 Enabled = 1 Boolean Tap Down Switch Stuck in the Down Position in Range 3 Enabled = 1 Boolean Tap Down Switch Stuck in the Down Position in Range 4 Enabled = 1 Boolean Tap Down Switch Stuck in the Down Position in Range 5 Enabled = 1 Boolean Tap Down Switch Stuck in the Down Position in Range 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 = TRUE Boolean NOTE: Both Failcase1 and Failcase 2 Must Be Met				>= 600 sec	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Time Since Last Range Change Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for P0816 Status is	>= 1 Enable Time (Sec) >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec ≠ Test Failed This Key On or Fault Active		
					Disable Conditions:	MIL not Illuminated for DTC's: P0815, P0826, P182E, P1876, P1877, P1915, 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 MIL
					Ignition Voltage Lo Ignition Voltage Hi Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for P0826 Status is	>= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec ≠ Test Failed This Key On or Fault Active		
					Disable Conditions:	MIL not Illuminated for DTC's: P1761 ECM: None		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
Variable Bleed Solenoid (VBS)	P0961	Pressure Control (PC) Solenoid A Control Circuit Rationality Test (Line Pressure VBS)	The HWIO reports an invalid voltage (out of range) error flag	= TRUE Boolean			>= 4.4 Fail Time (Sec)	Two Trips
							out of 5 Sample Time (Sec)	
						Ignition Voltage >= 8.5996094 Volts Ignition Voltage <= 31.990234 Volts Engine Speed >= 400 RPM Engine Speed <= 7500 RPM 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)	P0962	Pressure Control (PC) Solenoid A Control Circuit Low Voltage (Line Pressure VBS)	The HWIO reports a low voltage (ground short) error flag	= TRUE Boolean			>= 1.5 Fail Time (Sec)	One Trip
							out of 1.875 Sample Time (Sec)	
						Ignition Voltage >= 8.5996094 Volts Ignition Voltage <= 31.990234 Volts Engine Speed >= 400 RPM Engine Speed <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: None ECM: None		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
Variable Bleed Solenoid (VBS)	P0963	Pressure Control (PC) Solenoid A Control Circuit High Voltage (Line Pressure VBS)	The HWIO reports a high voltage (open or power short) error flag	= TRUE Boolean			>= 4.4 Fail Time (Sec) out of 5 Sample Time (Sec)	Two Trips
Variable Bleed Solenoid (VBS)	P0966	Pressure Control (PC) Solenoid B Control Circuit Low Voltage (C35R VBS)	The HWIO reports a low voltage (ground short) error flag	= TRUE Boolean			>= 0.3 Fail Time (Sec) out of 0.375 Sample Time (Sec)	One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: None ECM: None		
Variable Bleed Solenoid (VBS)	P0967	Pressure Control (PC) Solenoid B Control Circuit High Voltage (C35R VBS)	The HWIO reports a high voltage (open or power short) error flag	= TRUE Boolean			>= 0.3 Fail Time (Sec) out of 0.375 Sample Time (Sec)	One Trip
Variable Bleed Solenoid (VBS)	P0970	Pressure Control (PC) Solenoid C Control Circuit Low Voltage (C456/CBR1 VBS)	The HWIO reports a low voltage (ground short) error flag	= TRUE Boolean			>= 0.3 Fail Time (Sec) out of 0.375 Sample Time (Sec)	One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Engine Speed is within the allowable limits for Disable Conditions: MIL not Illuminated for DTC's:	>= 5 Sec TCM: None ECM: None		
Variable Bleed Solenoid (VBS)	P0971	Pressure Control (PC) Solenoid C Control Circuit High Voltage (C456/CBR1 VBS)	The HWIO reports a high voltage (open or power short) error flag	= TRUE Boolean			>= 0.3 Fail Time (Sec)	One Trip
							out of 0.375 Sample Time (Sec)	
					P0971 Status is not Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed is within the allowable limits for	= Test Failed This Key On or Fault Active >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec Disable Conditions: MIL not Illuminated for DTC's: ECM: None		
Shift Solenoid	P0973	Shift Solenoid A Control Circuit Low (Mode 2 Solenoid)	The HWIO reports a low voltage (ground short) error flag	= TRUE Boolean			>= 1.2 Fail Time (Sec)	One Trip
							out of 1.5 Sample Time (Sec)	
					P0973 Status is not Ignition Voltage	= Test Failed This Key On or Fault Active >= 8.5996094 Volts		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Ignition Voltage <= 31.990234 Volts Engine Speed >= 400 RPM Engine Speed <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Disable Conditions: MIL not Illuminated for DTC's: TCM: None ECM: None			
Shift Solenoid	P0974	Shift Solenoid A Control Circuit High (Mode 2 Solenoid)	The HWIO reports a high voltage (open or power short) error flag	= TRUE Boolean			>= 1.2 Fail Time (Sec)	Two Trips
							out of 1.5 Sample Time (Sec)	
					P0974 Status is not = Test Failed This Key On or Fault Active Ignition Voltage >= 8.5996094 Volts Ignition Voltage <= 31.990234 Volts Engine Speed >= 400 RPM Engine Speed <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec Disable Conditions: MIL not Illuminated for DTC's: TCM: None ECM: None			
Mode 3 Multiplex Valve	P0977	Shift Solenoid B Control Circuit High (Mode 3 Solenoid)	The HWIO reports a high voltage (open or power short) error flag	= TRUE Boolean			>= 1.2 Sec out of 1.5 Sec	One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					P0977 Status is not Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed is within the allowable limits for Disable Conditions:	Test Failed This Key On or Fault Active >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec MIL not Illuminated for DTC's: TCM: None ECM: None		
Tap Up Tap Down Switch (TUTD)	P1761	Tap Up and Down switch signal circuit (rolling count)	Rolling count value received from BCM does not match expected value	= TRUE Boolean			>= 3 Fail Counter > 10 Sample Timer (Sec)	Special No MIL
					Tap Up Tap Down Message Health Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Disable Conditions:	= TRUE Boolean >= 400 RPM <= 7500 RPM >= 5 Sec MIL not Illuminated for DTC's: TCM: None ECM: None		
Mode Switch	P1762	Transmission Mode Switch Signal Circuit (rolling count)	Rolling count value received from BCM does not match expected value	= TRUE Boolean			>= 3 Fail Counter > 10 Sample Timer (Sec)	Special No MIL

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Pattern Switch Message Health Engine Speed Lo Engine Speed Hi Engine Speed is within the allowable limits for Disable Conditions: MIL not Illuminated for DTC's: ECM: None	= TRUE Boolean >= 400 RPM <= 7500 RPM >= 5 Sec TCM: None ECM: None		
Internal Mode Switch (IMS)	P182E	Internal Mode Switch - Invalid Range	<u>Fail Case 1</u> Current range = Transition 1 (bit state Range 1110) Previous range ≠ CeTRGR_e_P Range RNDL_Drive6 Previous range ≠ CeTRGR_e_P Range RNDL_Drive4 Range Shift State = Range Shift ENUM Completed Absolute Attained Gear Slip <= 50 rpm Attained Gear <= Sixth Attained Gear >= First Throttle Position Available = TRUE Throttle Position >= 8.000183105 pct Output Speed >= 200 rpm Engine Torque >= 50 Nm Engine Torque <= 8191.75 Nm If the above conditions are met then Increment Fail Timer If Fail Timer has Expired then Increment Fail Counter				>= 1 Fail Seconds >= 5 Fail Counts	One Trip
			<u>Fail Case 2</u> Output Speed <= 70 rpm					

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			<p>The following PRNDL sequence events occur in this exact order:</p> <p style="padding-left: 40px;">PRNDL state = Drive 6 (bit state 0110) Range</p> <p style="padding-left: 40px;">PRNDL state = Drive 6 for >= 1 Sec</p> <p style="padding-left: 40px;">PRNDL state = Transition 8 (bit state 0111) Range</p> <p style="padding-left: 40px;">PRNDL state = Drive 6 (bit state 0110) Range</p> <p style="padding-left: 40px;">PRNDL state = Transition 1 (bit state 1110) Range</p> <p style="padding-left: 40px;">Above sequencing occurs in Neutral Idle Mode <= 1 Sec</p> <p style="padding-left: 40px;">= Inactive</p> <p>If all conditions above are met Increment delay Timer</p> <p>If the below two conditions are met Increment Fail Timer</p> <p style="padding-left: 40px;">delay timer >= 1 Sec</p> <p style="padding-left: 40px;">Input Speed >= 400 Sec</p> <p>If Fail Timer has Expired then Increment Fail Counter</p>				>= 3	Fail Seconds
			<p><u>Fail Case 3</u></p> <p style="padding-left: 40px;">Current range = Transition 13 (bit state 0010) Range</p> <p style="padding-left: 40px;">Engine Torque >= -8192 Nm</p> <p style="padding-left: 40px;">Engine Torque <= 8191.75 Nm</p> <p>If the above conditions are met then, Increment Fail Timer</p> <p>If Fail Timer has Expired then Increment Fail Counter</p>			<p>Previous range ≠ CeTRGR_e_PRNDL_Drive4</p> <p>Previous range ≠ CeTRGR_e_PRNDL_Drive1</p> <p>= 0 Boolean</p> <p>IMS is 7 position configuration if the IMS / Position Counting = 1 then the "previous range" criteria above must also be satisfied when the "current range" = "Transition 13"</p>	>= 0.225	Seconds
			<p><u>Fail Case 4</u></p> <p style="padding-left: 40px;">Current range = Transition 8 (bit state 0111) Range</p>		<p>Disable Fail Case 4 if last positive range was Drive 6 and current range is transition 8</p>		>= 15	Fail Counts

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Inhibit bit (see definition)	= FALSE	Set inhibit bit true if PRNDL = 1100 (rev) or 0100 (Rev-Neu transition 11) Set inhibit bit false if PRNDL = 1001 (park)			
			Steady State Engine Torque	>= 100 Nm				
			Steady State Engine Torque	<= 8191.75 Nm				
			If the above conditions are met then Increment Fail Timer				>= 0.225 Seconds	
			If the above Conditions have been met, Increment Fail Counter				>= 15 Fail Counts	
		<u>Fail Case 5</u>	Throttle Position Available	= TRUE Boolean				
			The following PRNDL sequence events occur in this exact order:					
			PRNDL State	= Reverse (bit state 1100) Range				
			PRNDL State	= Transition 11 (bit state 0100) Range				
			PRNDL State	= Neutral (bit state 0101) Range				
			PRNDL State	= Transition 11 (bit state 0100) Range				
			Above sequencing occurs in	<= 1 Sec				
			Then delay timer increments					
			Delay timer	>= 5 sec				
			Range Shift State	= Range Shift Complete				
			Absolute Attained Gear Slip	<= 50 rpm				
			Attained Gear	<= Sixth				
			Attained Gear	>= First				
			Throttle Position	>= 8.000183105 pct				
			Output Speed	>= 200 rpm				
			If the above conditions are met Increment Fail Timer				>= 20 Seconds	
		<u>Fail Case 6</u>	Current range	= Illegal (bit state 0000 or 1000 or 0001)	A Open Circuit Definition (flag set false if the following conditions are met):			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			<p style="text-align: center;">and</p> <p style="text-align: center;">A Open Circuit (See Definition) = FALSE Boolean</p>		<p style="text-align: center;">Current Range</p> <p style="text-align: center;">or</p> <p style="text-align: center;">Last positive state</p> <p style="text-align: center;">or</p> <p style="text-align: center;">Previous transition state</p> <p style="text-align: center;">Fail case 5 delay timer</p>	<p style="text-align: center;">≠ Transition 11 (bit state 0100)</p> <p style="text-align: center;">≠ Neutral (bit state 0101)</p> <p style="text-align: center;">≠ Transition 8 (bit state 0111)</p> <p style="text-align: center;">= 0 sec</p>	>= 6.25 Seconds	
			<p><u>Fail Case 7</u></p> <p style="text-align: center;">Current PRNDL State = PRNDL circuit Range ABCP = 1101</p> <p style="text-align: center;">and</p> <p style="text-align: center;">Previous PRNDL state = PRNDL circuit Range ABCP = 1111</p> <p style="text-align: center;">Input Speed >= 150 RPM</p> <p style="text-align: center;">Reverse Trans Ratio <= 2.678344727 ratio</p> <p style="text-align: center;">Reverse Trans Ratio >= 3.081542969 ratio</p> <p style="text-align: center;">If the above Conditions are met then, Increment Fail timer</p>				>= 6.25 Seconds	
			P182E will report test fail when any of the above 7 fail cases are met		<p style="text-align: center;">Ignition Voltage Lo >= 8.5996094 Volts</p> <p style="text-align: center;">Ignition Voltage Hi <= 31.990234 Volts</p> <p style="text-align: center;">Engine Speed Lo >= 400 RPM</p> <p style="text-align: center;">Engine Speed Hi <= 7500 RPM</p> <p style="text-align: center;">Engine Speed is within the allowable limits for >= 5 Sec</p> <p style="text-align: center;">Engine Torque Signal Valid = TRUE Boolean</p>			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Disable Conditions: ML not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P07C0, P07BF, P077C, P077D 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, P0401, P042E		
Internal Mode Switch (IMS)	P1915	Internal Mode Switch Does Not Indicate Park/Neutral (P/N) During Start	PRNDL State is \neq Park or Neutral Enumeration					One Trip
			The following events must occur Sequentially					
			Initial Engine speed \leq 50 RPM				\geq 0.25 Enable Time (Sec)	
			Then Engine Speed Between Following Cals					
Engine Speed Lo Hist \geq 50 RPM				\geq 0.06875 Enable Time (Sec)				
Engine Speed Hi Hist \leq 480 RPM								
Then Final Engine Speed \geq 525 RPM								
Final Transmission Input Speed \geq 100 RPM					\geq 1.25 Fail Time (Sec)			
					DTC has Ran this Key Cycle? = FALSE Boolean			
					Ignition Voltage Lo \geq 6 V			
					Ignition Voltage Hi \leq 31.999023 V			
					Ignition Voltage Hyst High (enables above this value) \geq 5 V			
					Ignition Voltage Hyst Low (disabled below this value) \leq 2 V			
					Transmission Output Speed \leq 90 rpm			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					P1915 Status is	≠ Test Failed This Key On or Fault Active		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0722, P0723 ECM: None		
Transmission Control Module (TCM)	P2534	Ignition Switch Run/Start Position Circuit Low	TCM Run crank active (based on voltage thresholds below)	= FALSE Boolean				One Trip
			Ignition Voltage High Hyst (run crank goes true when above this value)	5 Volts		>= 280 Fail Counts (25ms loop)		
			Ignition Voltage Low Hyst (run crank goes false when below this value)	2 Volts		Out of 280 Sample Counts (25ms loop)		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Transmission Control Module (TCM)	P2535	Ignition Switch Run/Start Position Circuit High	TCM Run crank active (based on voltage thresholds below)	= TRUE Boolean				One Trip
			Ignition Voltage High Hyst (run crank goes true when above this value)	5 Volts		>= 280 Fail Counts (25ms loop)		
			Ignition Voltage Low Hyst (run crank goes false when below this value)	2 Volts		Out of 280 Sample Counts (25ms loop)		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
					ECM run/crank active status available	= TRUE Boolean		
					ECM run/crank active status	= FALSE Boolean		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	ML not Illuminated for DTC's:	TCM: None ECM: None		
Variable Bleed Solenoid (VBS)	P2714	Pressure Control (PC) Solenoid D Stuck Off [CB26]	<u>Fail Case 1</u>	Case: Steady State 2nd Gear				One Trip
			<p style="text-align: right;">Gear slip >= 400 RPM</p> <p style="text-align: right;">Intrusive test: commanded 3rd gear</p> <p style="text-align: right;">If attained Gear = 3rd for Time >= see Table 2 in Supporting Documents</p> <p style="text-align: right;">If Above Conditions have been met</p> <p style="text-align: right;">Increment 2nd gear fail count</p> <p style="text-align: right;">and CB26 Fail Count</p>	Table Based Time Please see Table 2 in Supporting Documents	Enable Time (Sec)	<p style="text-align: right;">Please See Table 5 For Neutral Time Cal</p> <p style="text-align: right;">>= 3 2nd Gear Fail Count or >= 14 CB26 Fail Count</p>		
			<u>Fail Case 2</u>	Case: Steady State 6th Gear				
			<p style="text-align: right;">Gear slip >= 400 RPM</p> <p style="text-align: right;">Intrusive test: commanded 5th gear</p> <p style="text-align: right;">If attained Gear = 5th For Time >= see Table 2 in Supporting Documents</p> <p style="text-align: right;">If Above Conditions have been met, Increment 5th gear fail counter</p>	Table Based Time Please see Table 2 in Supporting Documents	Enable Time (Sec)	<p style="text-align: right;">Please See Table 5 For Neutral Time Cal</p> <p style="text-align: right;">>= 3 5th Gear Fail Count</p>		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			and CB26 Fail Count				>= 14 or CB26 Fail Count	
					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		
					A OR B			
					(A) Output speed enable	>= 36 RPM		
					(B) Accelerator Pedal enable	>= 0.5004883 Pct		
					Common Enable Criteria			
					Ignition Voltage Lo	>= 8.5996094 Volts		
					Ignition Voltage Hi	<= 31.990234 Volts		
					Engine Speed Lo	>= 400 RPM		
					Engine Speed Hi	<= 7500 RPM		
					Engine Speed is within the allowable limits for	>= 5 Sec		
					Throttle Position Signal valid	= TRUE Boolean		
					HSD Enabled	= TRUE Boolean		
					Transmission Fluid Temperature	>= -6.65625 °C		
					Input Speed Sensor fault	= FALSE Boolean		
					Output Speed Sensor fault	= FALSE Boolean		
					Default Gear Option is not present	= TRUE		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P2715	Pressure Control (PC) Solenoid D Stuck On [CB26] (Dynamic)	Primary Offgoing Clutch is exhausted (See Table 13 in Supporting Documents for Exhaust Delay Timers) Primary Oncoming Clutch Pressure Command Status Primary Offgoing Clutch Pressure Command Status Range Shift Status Attained Gear Slip If above coditons are true, increment appropriate Fail 1 Timers Below: fail timer 1 (2-1 shifting with throttle) fail timer 1 (2-1 shifting without throttle) fail timer 1 (2-3 shifting with throttle) fail timer 1 (2-3 shifting without throttle) fail timer 1 (2-4 shifting with throttle) fail timer 1 (2-4 shifting without throttle)	= TRUE Boolean = Maximum pressurized = Clutch exhaust command ≠ Initial Clutch Control ≤ 40 RPM ≥ 0.5 Fail Time (Sec) ≥ 0.5 Fail Time (Sec)				One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			fail timer 1 (6-4 shifting with throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (6-4 shifting without throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (6-5 shifting with throttle)	>= 0.5	Fail Time (Sec)			
			fail timer 1 (6-5 shifting without throttle)	>= 0.5	Fail Time (Sec)			
			If Attained Gear Slip is Less than Above Cal Increment Fail Timers				Total Fail Time = (Fail 1 + Fail 2) See Enable Timers for Fail Timer 1, and Reference Supporting Table 15 for Fail Timer 2	
			If fail timer is greater than threshold increment corresponding gear fail counter and total fail counter					
			2nd gear fail counter	>=	3	Fail Counter From 2nd Gear OR		
			6th gear fail counter	>=	3	Fail Counter From 6th Gear OR		
			total fail counter	>=	5	Total Fail Counter		
						TUT Enable temperature	>= -6.65625 °C	
						Input Speed Sensor fault	= FALSE Boolean	
						Output Speed Sensor fault	= FALSE Boolean	
						Command / Attained Gear	≠ 1st Boolean	
						High Side Driver ON	= TRUE Boolean	
						output speed limit for TUT	>= 100 RPM	
						input speed limit for TUT	>= 200 RPM	
						PRNDL state defaulted	= FALSE Boolean	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					IMS Fault Pending Service Fast Learn Mode HSD Enabled Disable Conditions:	= FALSE Boolean = FALSE Boolean = TRUE Boolean TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P2715	Pressure Control (PC) Solenoid D Stuck On [CB26] (Steady State)	<u>Fail Case 1</u> Case: Steady State 1st Attained Gear slip If the Above is True for Time Intrusive test: (CBR1 clutch exhausted) Gear Ratio Gear Ratio If the above parameters are true	>= 400 RPM Table Based Time Please Refer to Table Enable Time 4 in (Sec) supporting documents <= 3.015991211 >= 2.728027344			>= 1.1 Fail Timer (Sec) >= 5 Fail Count in 1st Gear or Total Fail Counts >= 5	One Trip
			<u>Fail Case 2</u> Case: Steady State 3rd Gear					

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			<p style="text-align: center;">Max Delta Output Speed Hysteresis</p> <p style="text-align: center;">Min Delta Output Speed Hysteresis</p> <p style="text-align: center;">If the Above is True for Time</p> <p style="text-align: center;">Intrusive test: (C35R clutch exhausted) Gear Ratio Gear Ratio If the above parameters are true</p>	<p style="text-align: center;">Table Based value Please Refer to Table 22 in rpm/sec</p> <p style="text-align: center;">>=</p> <p style="text-align: center;">supporting documents</p> <p style="text-align: center;">Table Based value Please Refer to Table 23 in rpm/sec</p> <p style="text-align: center;">>=</p> <p style="text-align: center;">supporting documents</p> <p style="text-align: center;">Table Based Time Please Refer to Table 17 in Sec</p> <p style="text-align: center;">>=</p> <p style="text-align: center;">supporting documents</p> <p style="text-align: center;"><= 3.015991211</p> <p style="text-align: center;">>= 2.728027344</p>			<p style="text-align: center;">>= 1.1 Fail Timer (Sec)</p> <p style="text-align: center;">>= 3 Fail Count in 3rd Gear or Total Fail Counts</p> <p style="text-align: center;">>= 5</p>	
			<p><u>Fail Case 3</u> Case: Steady State 4rd Gear</p> <p style="text-align: center;">Max Delta Output Speed Hysteresis</p>	<p style="text-align: center;">Table Based value Please Refer to Table 22 in rpm/sec</p> <p style="text-align: center;">>=</p> <p style="text-align: center;">supporting documents</p>				

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Min Delta Output Speed Hysteresis	>=	Table Based value Please Refer to Table 23 in rpm/sec supporting documents			
			If the Above is True for Time	>=	Table Based Time Please Refer to Table 17 in Sec supporting documents			
			Intrusive test: (C1234 clutch exhausted)					
			Gear Ratio	<=	0.779052734			
			Gear Ratio	>=	0.704956055			
			If the above parameters are true				>= 1.1	Fail Timer (Sec)
							>= 3	Fail Count in 4th Gear or
							>= 5	Total Fail Counts
		<u>Fail Case 4</u>	Case: Steady State 5th Gear					
			Max Delta Output Speed Hysteresis	>=	Table Based value Please Refer to Table 22 in rpm/sec supporting documents			
			Min Delta Output Speed Hysteresis	>=	Table Based value Please Refer to Table 23 in rpm/sec supporting documents			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
			If the Above is True for Time Intrusive test: (C35R clutch exhausted) Gear Ratio Gear Ratio If the above parameters are true	Table Based Time Please Refer to Table >= 17 in Sec supporting documents <= 0.779052734 >= 0.704956055			>= 1.1 Fail Timer (Sec) >= 3 Fail Count in 5th Gear or >= 5 Total Fail Counts		
					PRNDL State defaulted inhibit RVT IMS fault pending indication output speed TPS validity flag HSD Enabled Hydraulic_System_Pressurized 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 if Attained Gear=1st FW Accelerator Pedal enable if Attained Gear=1st FW Engine Torque Enable	= FALSE Boolean = FALSE Boolean = FALSE Boolean >= 0 RPM = TRUE Boolean = TRUE Boolean = TRUE Boolean >= 36 Nm >= 0.5004883 Nm >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec >= 5.0003052 Pct >= 20 Nm			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					if Attained Gear=1st FW Engine Torque Enable Transmission Fluid Temperature Input Speed Sensor fault Output Speed Sensor fault Default Gear Option is not present	<= 8191.875 Nm >= -6.65625 °C = FALSE Boolean = FALSE Boolean = TRUE		
					Disable Conditions:	MIL not Illuminated for DTC's: P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P2720	Pressure Control (PC) Solenoid D Control Circuit Low (CB26 VBS)	The HWIO reports a low voltage (ground short) error flag	= TRUE Boolean			>= 0.3 Fail Time (Sec) out of 0.375 Sample Time (Sec)	One Trip
					P2770 Status is not Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed is within the allowable limits for	= Test Failed This Key On or Fault Active >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Variable Bleed Solenoid (VBS)	P2721	Pressure Control (PC) Solenoid D Control Circuit High (CB26 VBS)	The HWIO reports a high voltage (open or power short) error flag	= TRUE Boolean			>= 0.3 Fail Time (Sec) out of 0.375 Sample Time (Sec)	One Trip
						P2721 Status is not = Test Failed This Key On or Fault Active Ignition Voltage >= 8.5996094 Volts Ignition Voltage <= 31.990234 Volts Engine Speed >= 400 RPM Engine Speed <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec		
Variable Bleed Solenoid (VBS)	P2723	Pressure Control (PC) Solenoid E Stuck Off	<u>Fail Case 1</u> Case: Steady State 1st Gear				Please See Table 5 For Neutral Time Cal	One Trip
			Gear slip >= 400 RPM				>= Neutral Timer (Sec)	
			Intrusive test: commanded 2nd gear					
			If attained Gear ≠ 2nd for Time >=	Please refer to Table 3 in Supporting Documents	Shift Time (Sec)			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			If Above Conditions have been met, Increment 1st gear fail counter				>= 3	1st Gear Fail Count
			and C1234 fail counter				>= 14	or C1234 Clutch Fail Count
			<u>Fail Case 2</u> Case: Steady State 2nd Gear					
			Gear slip	>= 400 RPM			>=	Please See Table 5 For Neutral Time Cal Neutral Timer (Sec)
			Intrusive test: commanded 3rd gear					
			If attained Gear ≠ 3rd for Time	>=	Please refer to Table 3 in Supporting Documents	Shift Time (Sec)		
			If Above Conditions have been met, Increment 2nd gear fail counter				>= 3	2nd Gear Fail Count
			and C1234 fail counter				>= 14	or C1234 Clutch Fail Count
			<u>Fail Case 3</u> Case: Steady State 3rd Gear					
			Gear slip	>= 400 RPM			>=	Please See Table 5 For Neutral Time Cal Neutral Timer (Sec)
			Intrusive test: commanded 4th gear					
			If attained Gear ≠ 4th for time	>=	Please refer to Table 3 in Supporting Documents	Shift Time (Sec)		
			If Above Conditions have been met, Increment 3rd gear fail counter				>= 3	3rd Gear Fail Count
			and C1234 fail counter				>= 14	or C1234 Clutch Fail Count

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
			<u>Fail Case 4</u> Case: Steady State 4th Gear Gear slip Intrusive test: commanded 5th gear If attained Gear = 5th For Time If Above Conditions have been met, Increment 4th gear fail counter and C1234 fail counter	>= 400 RPM >= Shift Time (Sec) Please refer to Table 3 in Supporting Documents			Please See Table 5 For Neutral Time Cal >= Neutral Timer (Sec) >= 3 4th Gear Fail Count or >= 14 C1234 Clutch Fail Count		
					PRNDL State defaulted inhibit RVT 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 HSD Enabled Transmission Fluid Temperature Input Speed Sensor fault Output Speed Sensor fault	= FALSE Boolean = FALSE Boolean = TRUE Boolean = TRUE Boolean >= 0 RPM >= 36 RPM >= 0.5004883 Pct >= 8.5996094 Volts <= 31.990234 Volts >= 400 RPM <= 7500 RPM >= 5 Sec = TRUE Boolean = TRUE Boolean >= -6.65625 °C = FALSE Boolean = FALSE Boolean			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Default Gear Option is not present	= TRUE		
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P2724	Pressure Control (PC) Solenoid E Stuck On (Dynamic)	Primary Offgoing Clutch is exhausted (See Table 10 in Supporting Documents for Exhaust Delay Timers) Primary Oncoming Clutch Pressure Command Status Primary Offgoing Clutch Pressure Command Status Range Shift Status Attained Gear Slip If the above conditions are true increment appropriate Fail 1 Timers Below: fail timer 1 (2-6 shifting with throttle) fail timer 1 (2-6 shifting without throttle) fail timer 1 (3-5 shifting with throttle) fail timer 1 (3-5 shifting without throttle)	= TRUE Boolean = Maximum pressurized = Clutch exhaust command ≠ Initial Clutch Control ≤ 40 RPM ≥ 0.5 sec ≥ 0.5 sec ≥ 0.5 sec ≥ 0.5 sec				One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			fail timer 1 (4-5 shifting with throttle)	>= 0.5 sec			Total Fail Time = (Fail 1 + Fail 2) See Enable Timers for Fail Timer 1, and Reference Supporting Table 15 for Fail Timer 2	
			fail timer 1 (4-5 shifting without throttle)	>= 0.5 sec				
			fail timer 1 (4-6 shifting with throttle)	>= 0.5 sec				
			fail timer 1 (4-6 shifting without throttle)	>= 0.5 sec				
			If Attained Gear Slip is Less than Above Cal Increment Fail Timers					
			If fail timer is greater than threshold increment corresponding gear fail counter and total fail counter				>= 1, and Reference Supporting Table 15 for Fail Timer 2	
			2nd gear fail counter				>= 3 Fail Counter From 2nd Gear	
			3rd gear fail counter				>= 3 Fail Counter From 3rd Gear	
			4th gear fail counter				>= 3 Fail Counter From 4th Gear	
			total fail counter				>= 5 Total Fail Counter	
					TUT Enable temperature	>= -6.65625 °C		
					Input Speed Sensor fault	= FALSE Boolean		
					Output Speed Sensor fault	= FALSE Boolean		
					Command / Attained Gear	≠ 1st Boolean		
					High Side Driver ON	= TRUE Boolean		
					output speed limit for TUT	>= 100 RPM		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
					input speed limit for TUT PRNDL state defaulted IMS Fault Pending Service Fast Learn Mode HSD Enabled	>= 200 RPM = FALSE Boolean = FALSE Boolean = FALSE Boolean = TRUE Boolean			
					Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P2724	Pressure Control (PC) Solenoid E Stuck On (Steady State)	Fail Case 1 Case: 5th Gear Max Delta Output Speed Hysteresis Min Delta Output Speed Hysteresis If the Above is True for Time Intrusive test: (C35R clutch exhausted)	Table Based value Please Refer to Table >= 22 in rpm/sec supporting documents Table Based value Please Refer to Table >= 23 in rpm/sec supporting documents Table Based Time Please Refer to Table >= 17 in Sec supporting documents				One Trip	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Gear Ratio <= 1.484985352 Gear Ratio >= 1.343017578 If the above parameters are true				>= 1.1 Fail Timer (Sec) >= 3 Fail Count in 5th Gear OR >= 3 Total Fail Counts	
		<u>Fail Case 2</u>	Case: 6th Gear					
			Max Delta Output Speed Hysteresis Table Based value Please Refer to Table supporting documents >= 22 in rpm/sec					
			Min Delta Output Speed Hysteresis Table Based value Please Refer to Table supporting documents >= 23 in rpm/sec					
			If the Above is True for Time Table Based Time Please Refer to Table supporting documents >= 17 in Sec					
			Intrusive test: (CB26 clutch exhausted) Gear Ratio <= 1.484985352 Gear Ratio >= 1.343017578 If the above parameters are true				>= 1.1 Fail Timer (Sec) >= 3 Fail Count in 6th Gear OR	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
							>= 3	Total Fail Counts
					PRNDL State defaulted	= FALSE Boolean		
					inhibit RVT	= FALSE Boolean		
					IMS fault pending indication	= FALSE Boolean		
					output speed	>= 0 RPM		
					TPS validity flag	= TRUE Boolean		
					HSD Enabled	= TRUE Boolean		
					Hydraulic_System_Pressurized	= TRUE Boolean		
					A OR B			
					(A) Output speed enable	>= 36 Nm		
					(B) Accelerator Pedal enable	>= 0.5004883 Nm		
					Ignition Voltage Lo	>= 8.5996094 Volts		
					Ignition Voltage Hi	<= 31.990234 Volts		
					Engine Speed Lo	>= 400 RPM		
					Engine Speed Hi	<= 7500 RPM		
					Engine Speed is within the allowable limits for	>= 5 Sec		
					if Attained Gear=1st FW Accelerator Pedal enable	>= 5.0003052 Pct		
					if Attained Gear=1st FW Engine Torque Enable	>= 20 Nm		
					if Attained Gear=1st FW Engine Torque Enable	<= 8191.875 Nm		
					Transmission Fluid Temperature	>= -6.65625 °C		
					Input Speed Sensor fault	= FALSE Boolean		
					Output Speed Sensor fault	= FALSE Boolean		
					Default Gear Option is not present	= TRUE		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not illuminated for DTC's:	TCM: P0716, P0717, P0722, P0723, P182E 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, P0401, P042E		
Variable Bleed Solenoid (VBS)	P2729	Pressure Control (PC) Solenoid E Control Circuit Low (C1234 VBS)	The HWIO reports a low voltage (ground short) error flag	= TRUE Boolean			>= 0.3 Fail Time (Sec) out of 0.375 Sample Time (Sec)	One Trip
						P2729 Status is not Ignition Voltage >= 8.5996094 Volt Ignition Voltage <= 31.990234 Volt Engine Speed >= 400 RPM Engine Speed <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec	Test Failed This Key On or Fault Active	
Variable Bleed Solenoid (VBS)	P2730	Pressure Control (PC) Solenoid E Control Circuit High (C1234 VBS)	The HWIO reports a high voltage (open or power short) error flag	= TRUE Boolean			>= 0.3 Fail Time (Sec) out of 0.375 Sample Time (Sec)	One Trip

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					P2730 Status is not Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed is within the allowable limits for	= Test Failed This Key On or Fault Active >= 8.5996094 Volt <= 31.990234 Volt >= 400 RPM <= 7500 RPM >= 5 Sec		
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Variable Bleed Solenoid (VBS)	P2763	Torque Converter Clutch Pressure High	The HWIO reports a low pressure/high voltage (open or power short) error flag	= TRUE Boolean			>= 4.4 Fail Time (Sec) out of 5 Sample Time (Sec)	Two Trips
					P2763 Status is not Ignition Voltage Ignition Voltage Engine Speed Engine Speed Engine Speed is within the allowable limits for High Side Driver Enabled	= Test Failed This Key On or Fault Active >= 8.5996094 Volt <= 31.990234 Volt >= 400 RPM <= 7500 RPM >= 5 Sec = TRUE Boolean	TCM: P0658, P0659 ECM: None	

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
Variable Bleed Solenoid (VBS)	P2764	Torque Converter Clutch Pressure Control Solenoid Control Circuit Low	The HWIO reports a high pressure/low voltage (ground short) error flag	= TRUE Boolean			>= 4.4 Fail Time (Sec) out of 5 Sample Time (Sec)	One Trip
					P2764 Status is not Ignition Voltage >= 8.5996094 Volt Ignition Voltage <= 31.990234 Volt Engine Speed >= 400 RPM Engine Speed <= 7500 RPM Engine Speed is within the allowable limits for >= 5 Sec High Side Driver Enabled = TRUE Boolean	Test Failed This Key On or Fault Active TCM: P0658, P0659 ECM: None		
Communication	U0073	Controller Area Network Bus Communication Error	CAN Hardware Circuitry Detects a Low Voltage Error	= TRUE Boolean Delay timer >= 0.1125 sec			>= 62 Fail counts (≈ 10 seconds) Out of 70 Sample Counts (≈ 11 seconds)	One Trip
					Stabilization delay >= 3 sec Ignition Voltage >= 8.5996094 Volt Ignition Voltage <= 31.990234 Volt Power Mode = Run	MIL not Illuminated for DTC's: TCM: None ECM: None		
Communication	U0100	Lost Communications with ECM (Engine Control Module)	CAN messages from ECM are not received by the TCM	= TRUE Boolean			>= 12 sec	One Trip
					Stabilization delay >= 3 sec			

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Ignition Voltage Ignition Voltage Power Mode	>= 8.5996094 Volt <= 31.990234 Volt = Run		
					Disable Conditions:	MIL not illuminated for DTC's: TCM: U0073 ECM: None		
Transmission Control Module (TCM)	C1251	The lateral acceleration signal is stuck at a high magnitude in range	absolute value (lateral acceleration) >= 0.529999971 g's absolute value (lateral acceleration) <= 3.849999905 g's		absolute value (lateral acceleration) for stability absolute value (lateral acceleration) for stability stability time	>= 0.53 g's <= 3.8499999 g's >= 30 Sec	>= 75 Sec	Special No MIL
					Diagnostic shifting override command Attained Gear State Attained Gear Slip Transmission Type High Side Drivers enabled Vehicle Speed Lateral acceleration stuck in range diagnostic enable calibration Battery Voltage Battery Voltage Battery voltage is within the allowable limits for Ignition Voltage Ignition Voltage Service Fast Learn (SFL) Mode VBS Failsafe Ignition voltage and SFL conditions met for	= FALSE Boolean = 1st through 8th <= 100 RPM = Clutch to Transmission = TRUE Boolean >= 15 kph = 1 <= 31.999023 Volts >= 9 Volts >= 0.1 Sec <= 31.999023 Volts >= 9 Volts = FALSE Boolean >= 0.1 Sec		

18 OBDG03B TCM 6 Speed T43 Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0716, P0717, P0721, P0722, P0723, P07BF, P07C0, P077B, P077C, P077D, P215C, U0073 ECM: None		

2D Supporting Tables T43

Table 1

Axis	0.00	64.00	128.00	192.00	256.00	320.00	384.00	448.00	512.00	N*m
Curve	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	RPM

Table 2

Axis	-6.67	-6.66	40.00	°C
Curve	409.59	2.00	2.00	Sec

Table 3

Axis	-6.67	-6.66	40.00	°C
Curve	409.59	4.00	4.00	Sec

Table 4

Axis	-6.67	-6.66	40.00	°C
Curve	409.59	2.00	2.00	Sec

Table 5

Axis	-6.67	-6.66	40.00	°C
Curve	409.59	3.00	3.00	Sec

Table 6

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	409.00	3.60	1.60	1.40	1.40	Sec

2D Supporting Tables T43

Table 7

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	409.00	3.40	1.40	1.30	1.20	Sec

Table 8

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	409.00	3.60	1.60	1.50	1.40	Sec

Table 9

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	409.00	3.30	1.30	1.20	1.10	Sec

Table 10

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	3.10	1.90	1.10	0.80	0.60	Sec

Table 11

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	1.80	1.20	0.60	0.40	0.30	Sec

Table 12

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	2.20	1.40	0.90	0.70	0.40	Sec

2D Supporting Tables T43

Table 13

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	2.60	1.00	0.50	0.30	0.20	Sec

Table 14

Axis	-6.67	-6.66	40.00	80.00	120.00	°C
Curve	3.00	0.90	0.50	0.30	0.20	Sec

Table 15

Axis	-40.00	-30.00	-20.00	-10.00	0.00	10.00	20.00	30.00	40.00	°C
Curve	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Sec

Table 16

Axis	-6.67	-6.66	40.00	°C
Curve	409.59	2.50	2.50	Sec

Table 17

Axis	-6.67	-6.66	40.00	°C
Curve	0.40	0.35	0.30	Sec

Table 18

Axis	-40.10	-40.00	-20.00	0.00	30.00	60.00	100.00	149.00	149.10	°C
Curve	256.00	50.00	45.00	40.00	34.00	25.00	20.00	20.00	256.00	°C

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Table 19

Axis	-40.10	-40.00	-20.00	0.00	30.00	60.00	100.00	149.00	149.10	°C
Curve	256.00	50.00	45.00	40.00	34.00	25.00	20.00	20.00	256.00	°C

Table 20

Axis	-40.10	-40.00	-20.00	0.00	30.00	60.00	100.00	149.00	149.10	°C
Curve	256.00	10.00	8.00	8.00	8.00	8.00	8.00	8.00	256.00	°C

Table 21

Axis	-40.00	-20.00	40.00	°C
Curve	5.00	3.00	1.00	Sec

Table 22

Axis	-6.67	-6.66	40.00	°C
Curve	8191.75	8191.75	8191.75	RPM/Sec

Table 23

Axis	-6.67	-6.66	40.00	°C
Curve	8191.75	8191.75	8191.75	RPM/Sec