

15 OBDG03 TCM Summary Tables

Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
System Voltage	P0562	System Voltage Low	System Voltage	< 10 volt	<p>Engine speed Actual Secondary Pressure Solenoid</p> <p>Disable Conditions: MIL not Illuminated for DTC's:</p>	<p>>= 625 rpm > 0.3 MPa</p> <p>TCM: P0842, P0843 ECM: P0315, P0335, P0336</p>	>= 5 sec	No MIL
System Voltage	P0563	System Voltage High	System Voltage	> 16 volt	<p>Engine speed Vehicle speed Actual Secondary Pressure Solenoid</p> <p>Disable Conditions: MIL not Illuminated for DTC's:</p>	<p>>= 625 rpm >= 1 kph > 0.3 MPa</p> <p>TCM: P0721, P0842, P0843 ECM: P0315, P0335, P0336</p>	>= 5 sec	No MIL
Transmission Control Module (TCM)	P0603	Control Module Long-Term Memory Reset	Non-volatile memory (static or dynamic) checksum mismatch	= TRUE	None	<p>Disable Conditions: MIL not Illuminated for DTC's:</p> <p>TCM: None ECM: None</p>		One Trip
A/T Range (TR) Switch	P0705	Transmission Range Switch Circuit	The range signal from the TR switch	switch signal is in a "no range signal" state	<p>System voltage System voltage</p> <p>Disable Conditions: MIL not Illuminated for DTC's:</p>	<p>>= 10 V =< 32 V</p> <p>TCM: None ECM: None</p>	> 30 Sec	One Trip

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A/T Range (TR) Switch	P0706	Transmission Range Switch Performance	The range signal from the TR switch	more than one "range signal" is detected (Except combination of D and L which has overlap by design; defaults to D range)	System voltage System voltage	>= 10 V =< 32 V	> 2 Sec	One Trip
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Transmission Fluid Temperature Sensor (TFT)	P0711	Transmission Fluid Temperature Sensor Performance	ATF Fluid temperature stuck in temperature zone A/T Fluid temperature <= 10 C° A/T Fluid temperature >= -40 C°		System voltage System voltage Range D or L Range Engine speed Vehicle speed Pedal position	>= 10 V =< 32 V >= 450 rpm >= 7 mph >= 12.5 %	>= 10 Fail Time (Min)	One Trip
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0705, P0706 ECM: None		
Transmission Fluid Temperature Sensor (TFT)	P0712	Transmission Fluid Temperature Sensor Circuit Low Voltage (short to ground).	A/T Fluid temperature >= 180 C°		System voltage System voltage	>= 10 V =< 32 V	>= 5 Fail Time (Sec)	One Trip

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				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: None ECM: None		
Transmission Fluid Temperature Sensor (TFT)	P0713	Transmission Fluid Temperature Sensor Circuit High Voltage (open or short to power).	A/T Fluid temperature	<= -40 C°		System voltage >= 10 V System voltage =< 32 V Vehicle speed >= 7 mph	>= 5 Fail Time (Sec)	One Trip
Transmission Input Speed Sensor (TISS)	P0717	Input Speed Sensor Circuit No Signal	<u>Fail Case 1</u>	Primary pulley speed	< 150 RPM	System voltage >= 10 V System voltage =< 32 V Secondary Pulley speed >= 1000 RPM	>= 5 Sec	One Trip
		Check pulse input	<u>Fail Case 2</u>	Pulse input	No pulse	System voltage >= 10 V System voltage =< 32 V Latest calculated Primary pulley speed >= 1000 RPM	>= 500 msec	
A/T Vehicle Speed Sensor (Output Gear Speed Sensor)	P0721	Output Speed Sensor Performance	<u>Fail Case 1</u>	Output gear speed	< 150 RPM	System voltage >= 10 V System voltage =< 32 V Secondary Pulley speed >= 1500 rpm Range Calculated turbine speed is experienced after engagement < 300 rpm	>= 10 sec	One Trip

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
		Pulse input	<u>Fail Case 2</u> Pulse input	No pulse	Output gear speed is not experienced after engagement Disable Conditions: MIL not illuminated for DTC's:	> 250 rpm TCM: P0705, P0706 System voltage >= 10 V System voltage =< 32 V Latest calculated Output gear speed >= 730 RPM Disable Conditions: MIL not illuminated for DTC's: ECM: None	>= 500 msec	
Torque Converter Clutch (TCC)	P0741	TCC System Stuck OFF	Torque converter slip	$(40 + \text{Vehicle speed [mph]} \times 1.6/2)$ RPM	System voltage >= 10 V System voltage =< 32 V TCC Mode Commanded Lock Lock up command oil pressure > 0.2 MPa Disable Conditions: MIL not illuminated for DTC's: ECM:P0315, P0335, P0336	TCM: P0962, P0963, P0961, P2763, P2764, P0842, P0843, P0705, P0706, P0717, P0792, P0885	>= 30 Sec	Two Trips
Secondary pulley Speed Sensor	P0792	Intermediate Shaft Speed Sensor Circuit Performance Check Secondary pulley speed	<u>Fail Case 1</u> Secondary pulley speed	< 150 RPM	System voltage >= 10 V System voltage =< 32 V Primary pulley speed >= 1000 rpm System voltage >= 10 V	> 5 Sec	> 500 msec	One Trip
			<u>Fail Case 2</u> Check pulse input	No pulse				

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					System voltage Latest calculated Secondary pulley speed	=< 32 V >= 1000 rpm		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: None ECM: None		
Auxiliary Shift Gear In Neutral	P0796	Pressure Control Solenoid Valve 3 Stuck Off [Gear ratio in Neutral (1st gear)] Check current commanded gear ratio and actual gear ratio	Actual auxiliary shift gear ratio	>= 2.232		System voltage >= 10 V System voltage <= 32 V Engine speed > 625 rpm Output gear speed > 300 rpm Secondary pulley speed > 300 rpm Range D Range or L Range Pedal position >= 7.8 % Current commanded auxiliary shift gear = 1st Gear	>= 2 sec	One Trip
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P2715,P2714, P0797, P0721, P0792, P0706, P0705, P0970, P0971, P2720, P2721, U0100, U0073 ECM: P0315, P0335, P0336, P2122, P2123, P2127, P2128, P2138		
Auxiliary Shift Gear Interlock / Incorrect Auxiliary Shift Gear Ratio	P0797	Pressure Control Solenoid Valve 3 Stuck On [Gear ratio fail (2nd gear)]	<u>Fail Case 1</u> Actual auxiliary shift gear ratio	without +/-50% range of designed 2nd gear ratio			>= 200 msec	One Trip

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
		Check vehicle deceleration and the actual gear ratio			System voltage System voltage Engine speed Output gear speed Secondary pulley speed Range Vehicle speed Vehicle G Current commanded auxiliary shift gear	>= 10 V =< 32 V > 625 rpm > 300 rpm > 300 rpm D Range or L Range >= 7 Mph < -0.05 G = 2nd gear			
		Check current commanded gear ratio and actual gear ratio	<u>Fail Case 2</u> Actual auxiliary shift gear ratio	within +/-10% range of designed 1st gear ratio			>= 500 msec		
					System voltage System voltage Engine speed Output gear speed Secondary pulley speed Range Vehicle speed Pedal position Current commanded auxiliary shift gear	>= 10 V =< 32 V > 625 rpm > 300 rpm > 300 rpm D Range or L Range >= 7 Mph >= 7.8 % = 2nd gear			
					Disable Conditions: MIL not illuminated for DTC's:	TCM: P2715, P2714, P0796, P0721, P0792, P0706, P0705, P0970, P0971, P2720, P2721, U0100, U0073 ECM: P0315, P0335, P0336, P2122, P2123, P2127, P2128, P2138			
Secondary pulley Pressure Sensor	P0841	Transmission Fluid Pressure Sensor Performance Rationality Compare actual pressure with target pressure	<u>Fail Case 1</u> Actual secondary pressure - Target secondary pressure	> 0.675 MPa		System voltage System voltage Range	>= 10 V =< 32 V D Range	5 sec	One Trip

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Primary Pulley Secondary Pulley Vehicle Speed Rate of Change Pulley ratio Rate of Change Pedal position Rate of Change	> 306 rpm > 230 rpm < 31 mph < 0.1 < 21 %		
			<u>Fail Case 2</u> Target secondary pressure - Actual secondary pressure >	1.2 MPa	Disable Conditions: MIL not Illuminated for DTC's: System voltage >= 10 V Range D Range Engine speed >= 450 rpm Vehicle Speed >= 7 mph Pedal position >= 12.5 % Target secondary pressure >= 0 MPa A/T Fluid temperature < 180 C° A/T Fluid temperature > 20 C°	TCM: P0717, P0792, P0721, U0100, P0706, P0705, P0963, P0961, P0842, P0843, P0885 ECM: P0315, P0335, P0336	10 sec	
Secondary pulley Pressure Sensor	P0842	Transmission Fluid Pressure Sensor Circuit Low Voltage Check input voltage	Sensor circuit Input Voltage <=	0.09 volts	System voltage >=	10 V	>= 5 sec	Two Trips
					Disable Conditions: MIL not Illuminated for DTC's: TCM: P0717, P0792, P0721, U0100, P0706, P0705, P0963, P0962, P0961, P0842, P0843, P0741, P2764, P2763, U0073, P0711, P0712, P0713 ECM: P0315, P0335, P0336, P2122, P2123, P2127, P2128, P2138			

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					System voltage A/T Fluid temperature	=< 32 V > -20 C°		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: None ECM: None		
Secondary pulley Pressure Sensor	P0843	Transmission Fluid Pressure Sensor Circuit High Voltage Check input voltage	Sensor circuit Input Voltage	>= 4.7 volts	System voltage System voltage A/T Fluid temperature Target pressure of Secondary Pressure Solenoid	>= 10 V =< 32 V > -20 C° <= 5.7 MPa	>= 5 sec	Two Trips
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: None ECM: None		
ROM Assembly	P0863	ROM Read error	ROM assembly read error	= TRUE	System voltage Range Output speed sensor pulse input starting from IGN-ON	>= 6.5 V P range or N range = None	>= 10 sec	One Trip
					Disable Conditions:	MIL not Illuminated for DTC's: TCM:None ECM: None		
		Communication error	ROM assembly communication error	= TRUE	System voltage System voltage	>= 10 V =< 32 V	>= 10 sec	

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					<p>Range Output speed sensor pulse input starting from IGN-ON</p> <p>Disable Conditions: MIL not illuminated for DTC's:</p>	<p>P range or N range = None</p> <p>TCM: None ECM: None</p>		
High Clutch Pressure Switch	P0871	Transmission Fluid Pressure Switch Performance	<p><u>Fail Case 1</u> High clutch pressure switch status</p> <p><u>Fail Case 2</u> High clutch pressure switch status</p>	<p>= ON</p> <p>= ON</p>	<p>Range High clutch pressure command</p> <p>ROM assembly communication status</p> <p>Disable Conditions: MIL not illuminated for DTC's:</p> <p>Range High clutch pressure command</p> <p>Engine speed</p> <p>Current commanded auxiliary shift gear</p> <p>Vehicle speed</p> <p>ROM assembly communication status</p>	<p>P Range or R range or N range =< 0 MPa</p> <p>Not communicating</p> <p>TCM: P0705, P0706, P0796, P2715, P2714, P0797, P0961, P0962, P0963, P2720, P2721, P0711, P0712, P0713</p> <p>ECM: None</p> <p>D range or L range =< 0 MPa > 400 rpm</p> <p>= 1st gear</p> <p>> 7 Mph</p> <p>Not communicating</p>	<p>> 1.5 sec</p> <p>> 1.5 sec</p>	One Trip

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			<u>Fail Case 3</u> High clutch pressure switch status = OFF	Disable Conditions: MIL not Illuminated for DTC's:	TCM: P0705, P0706, P0796, P2715, P2714, P0797, P0961, P0962, P0963, P0970, P0971, P2720, P2721, P0711, P0712, P0713, P0721, P0717, P0792 ECM: None	D range or L range High clutch pressure command >= 0.2 MPa Current commanded auxiliary shift gear = 2nd High Clutch pressure solenoid command current <= 50 mA High Clutch pressure solenoid monitor current <= 60 mA Engine speed > 550 rpm Output gear speed > 300 rpm Secondary pulley speed > 300 rpm Actual auxiliary shift gear ratio < 1.1 Pedal position >= 7.8 % ROM assembly communication status Not communicating	> Refer to Table 1 sec	
					MIL not Illuminated for DTC's:	TCM: P0705, P0706, P0796, P2715, P0797, P2714, P0961, P0962, P0963, P0970, P0971, P2720, P2721, P0711, P0712, P0713, P0721, P0792 ECM: None		

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
Input Voltage	P0885	Transmission Control Module (TCM) Power Relay Control Circuit	Power Source	< 8.4 V	System voltage	> 11 V TCM: None ECM: None	>= 200 msec	One Trip
Line Pressure Solenoid	P0961	Line Pressure Control Solenoid Valve Performance Check pulley ratio	<u>Fail Case 1</u> (Primary pulley speed /Secondary pulley speed)	> 2.55	Range D Range or L Range or R Range Engine Speed > 600 rpm Primary pulley speed > 500 rpm Key On timer >= 500 ms Vehicle G >= -0.051 G Output speed <= 107 rpm or Secondary pulley speed > 61 rpm Pedal pressed = TRUE Two fault occurrences seperated by at least 1sec = TRUE	D Range or L Range or R Range Engine Speed > 600 rpm Primary pulley speed > 500 rpm Key On timer >= 500 ms Vehicle G >= -0.051 G Output speed <= 107 rpm or Secondary pulley speed > 61 rpm Pedal pressed = TRUE Two fault occurrences seperated by at least 1sec = TRUE	>= 200 msec	One Trip
		Check pulley ratio	<u>Fail Case 2</u> (Primary pulley speed /Secondary pulley speed)	> 3.35			>= 100 msec	

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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: P0717, P0721 ECM: None		
Line Pressure Solenoid	P0962	Line Pressure Control Solenoid Valve Control Circuit Low Voltage	Monitored current Commanded current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground Line Pressure Solenoid command	>= 10 V =< 32 V = TRUE = ON	>= 200 msec	One Trip
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0963 ECM: None		
Line Pressure Solenoid	P0963	Line Pressure Control Solenoid Valve Control Circuit High Voltage	Monitored current Commanded current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground Line Pressure Solenoid command	>= 10 V =< 32 V = FALSE = ON	>= 200 msec	One Trip
				Disable Conditions:	MIL not Illuminated for DTC's:	TCM: P0962 ECM: None		
Primary Pressure Solenoid	P0965	Pressure Control Solenoid Valve 2 Performance	<u>Fail Case 1</u> Pulley ratio (Primary pulley speed /Secondary pulley speed)	>= 2.0 and <= 2.4	Range Engine Speed Target pulley ratio	D Range or L Range or R Range > 500 rpm < 1.2	>= 5 Sec	One Trip

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
			Fail Case 2 Pulley ratio (Primary pulley speed /Secondary pulley speed)	>= 0.35 and <= 0.75	Range Engine Speed Target pulley ratio	D Range or L Range or R Range > 500 rpm > 1.55 Disable Conditions: MIL not Illuminated for DTC's: TCM: P0717, P0792, P0842, P0843, P0841, P0962, P0963, P0961, P0966, P0967, P0706, P0705, U0100 ECM: P0315, P0335, P0336	>= 5 Sec	
Primary Pressure Solenoid	P0966	Pressure Control Solenoid Valve 2 Control Circuit Low Voltage STG	Monitored current Commanded current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground Primary Pressure Solenoid command	>= 10 V =< 32 V = TRUE = ON Disable Conditions: MIL not Illuminated for DTC's: TCM: P0967 ECM: None	> 480 msec	One Trip
Primary Pressure Solenoid	P0967	Pressure Control Solenoid Valve 2 Control Circuit High Voltage Open	Monitored current Commanded current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground	>= 10 V =< 32 V = FALSE	> 200 msec	One Trip

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					Primary Pressure Solenoid command	= ON		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P0966 ECM: None		
Low Brake (L/B) Solenoid	P0970	Pressure Control Solenoid Valve 3 Control Circuit Low Voltage STG	Monitored current Commanded current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground Low Brake (L/B) Solenoid command	>= 10 V =< 32 V = TRUE = ON	> 480 msec	One Trip
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P0971 ECM: None		
Low Brake (L/B) Solenoid	P0971	Pressure Control Solenoid Valve 3 Control Circuit High Voltage Open	Monitored current Commanded current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground Low Brake (L/B) Solenoid command	>= 10 V =< 32 V = FALSE = ON	> 200 msec	One Trip
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P0970 ECM: None		
ROM Assembly	P1790	Data mismatch	Data miss match between ROM assembly data and NVM data	= TRUE				One Trip

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.
					ROM assembly read succeed Output speed sensor pulse input starting from IGN-ON	= TRUE = None		
					Disable Conditions: MIL not Illuminated for DTC's:	TCM: None ECM: None		
Auxiliary Shift Gear Interlock / Incorrect Auxiliary Shift Gear Ratio	P2714	Pressure Control (PC) Solenoid 4 - Stuck Off [Gear ratio fail (1st gear)] Check vehicle deceleration and the actual gear ratio	Fail Case 1	Actual auxiliary shift gear ratio	outside a +/-50% range of designed 1st gear ratio	System voltage >= 10 V System voltage <= 32 V Engine speed > 625 rpm Output gear speed > 300 rpm Secondary pulley speed > 300 rpm Range D Range or L Range Vehicle speed >= 7 Mph Vehicle G < -0.05 G Current commanded auxiliary shift gear = 1st Gear	>= 200 msec	One Trip
			Fail Case 2	Actual auxiliary shift gear ratio	within +/-10% range of designed 2nd gear ratio	System voltage >= 10 V System voltage <= 32 V	>= 500 msec	
		Check current commanded gear ratio and actual gear ratio			Disable Conditions: MIL not Illuminated for DTC's:	TCM: P2715,P0797, P0796, P0721, P0792, P0706, P0705, P0970, P0971, P2720, P2721, U0100, U0073 ECM: P0315, P0335, P0336, P2122, P2123, P2127, P2128, P2138		

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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 > 625 rpm Output gear speed > 300 rpm Secondary pulley speed > 300 rpm Range D Range or L Range Vehicle speed >= 7 Mph Pedal position >= 7.8 % Current commanded auxiliary shift gear = 1st Gear			
					Disable Conditions: MIL not illuminated for DTC's:	TCM: P2715, P0797, P0796, P0721, P0792, P0706, P0705, P0970, P0971, P2720, P2721, U0100, U0073 ECM: P0315, P0335, P0336, P2122, P2123, P2127, P2128, P2138		
			<u>Fail Case 3</u> High clutch pressure switch status = ON				> 1.5 sec	
					Engine speed > 400 rpm Vehicle speed < 7 Mph High clutch pressure command <= 0 MPa Current commanded auxiliary shift gear = 1st Gear High clutch pressure switch valid judgement = FALSE High clutch pressure status changed from OFF to ON during engagement to D range = TRUE			

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Component/ System	Fault Code	Monitor Strategy Description	Malfunction Criteria	Threshold Value	Secondary Malfunction	Enable Conditions	Time Required	Mil Illum.	
			<u>Fail Case 4</u> High clutch pressure switch status = ON	Disable Conditions: Disable Conditions:	MIL not Illuminated for DTC's: MIL not Illuminated for DTC's:	TCM: P2714, P0797, P0796, P2715, P0970, P0971, P2720, P2721, P0721, P0792, P0717, P0706, P0705, P0871 ECM: P0315, P0335, P0336	> 1.5 sec		
					Engine speed > 400 rpm Vehicle speed < 7 Mph Range D Range or L Range High clutch pressure command =< 0 MPa Current commanded auxiliary shift gear = 1st Gear High clutch pressure switch valid judgement = TRUE				
					Disable Conditions: Disable Conditions:	MIL not Illuminated for DTC's: MIL not Illuminated for DTC's:	TCM: P2714, P0797, P0796, P2715, P0970, P0971, P2720, P2721, P0721, P0792, P0717, P0706, P0705, P0871 ECM: P0315, P0335, P0336		
Auxiliary Shift Gear In Neutral	P2715	Pressure Control Solenoid Valve 4 Stuck On [Gear ratio in Neutral (2nd gear)] Check current commanded gear ratio and actual gear ratio	Actual auxiliary shift gear ratio	>= 2.232			>= 2 sec	One Trip	
					System voltage >= 10 V System voltage =< 32 V Engine speed > 625 rpm Output gear speed > 300 rpm Secondary pulley speed > 300 rpm Range D Range or L Range				

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					Pedal position Current commanded auxiliary shift gear	>= 7.8 % = 2nd gear		
					Disable Conditions: MIL not illuminated for DTC's:	TCM: P2714, P0796, P0797, P0721, P0792, P0706, P0705, P0970, P0971, P2720, P2721, U0100, U0073 ECM: P0315, P0335, P0336, P2122, P2123, P2127, P2128, P2138		
High Clutch (H/C) Solenoid	P2720	Pressure Control Solenoid Valve 4 Control Circuit Low Voltage STG	Monitored current Commanded current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground High Clutch (H/C) Solenoid command	>= 10 V =< 32 V = TRUE = ON	> 200 msec	One Trip
					Disable Conditions: MIL not illuminated for DTC's:	TCM: P2721 ECM: None		
High Clutch (H/C) Solenoid	P2721	Pressure Control Solenoid Valve 4 Control Circuit High Voltage Open	Monitored current Commanded current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground High Clutch (H/C) Solenoid command	>= 10 V =< 32 V = FALSE = ON	> 200 msec	One Trip

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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: P2720 ECM: None		
TCC Linear Solenoid	P2763	Torque Converter Clutch (TCC) Pressure Control Solenoid Valve Control Circuit High Voltage	Monitored current Commanded Current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground TCC Linear Solenoid command	>= 10 V =< 32 V = FALSE = ON	> 5 Sec	Two trips
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P2764 ECM: None		
TCC Linear Solenoid	P2764	Torque Converter Clutch (TCC) Pressure Control Solenoid Valve Control Circuit Low Voltage	Monitored current Commanded Current	<= 200 mA >= 750 mA	System voltage System voltage Hardware circuitry detects short to ground TCC Linear Solenoid command	>= 10 V =< 32 V = TRUE = ON	>= 480 msec	Two trips
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: P2763 ECM: None		
Communication	U0073	Controller Area Network Bus Communication Error	CAN Bus Detects Invalid Message Error	= TRUE Boolean	System voltage	>= 10 V	> 3 Sec or > ID Periodic Interval × 5 times	One Trip

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					System voltage	=< 32 V		
					System voltage over Min for Ignition On for	> 2 sec > 2 sec		
					Engine speed Calculated turbine speed	>= 600 rpm >= 600 rpm		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: None ECM: None		
Communication	U0100	Lost Communications with Engine Control System	Comm. Message Invalid Between ECU and TCM	= TRUE Boolean			> 2 Sec or > ID Periodic Interval × 5 times	One Trip
					System voltage	>= 10 V		
					System voltage	=< 32 V		
					System voltage over Min for Ignition On for	> 2 sec > 2 sec		
					Engine speed Calculated turbine speed	>= 600 rpm >= 600 rpm		
					Disable Conditions:	MIL not Illuminated for DTC's: TCM: None ECM: None		

15 OBDG03 TCM Diagnostic 2D Tables

Supporting Tables

Table 1

Axis	-55	-20	-19	-10	-9	0	1	40	41	200	Units
Curve	10.2	10.2	7.5	7.5	5.5	5.5	3.5	3.5	2.5	2.5	Deg C
											Sec