

14 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 | Engine speed Actual Secondary Pressure Solenoid | >= 625 rpm > 0.3 MPa MIL not Illuminated for DTC's: TCM: P0842, P0843 ECM:P0315, P0335, P0336 | >= 5 sec | No MIL |
| System Voltage | P0563 | System Voltage High | System Voltage | > 16 volt | Engine speed Vehicle speed Actual Secondary Pressure Solenoid | >= 625 rpm >= 1 kph > 0.3 MPa MIL not Illuminated for DTC's: TCM: P0721, P0842, P0843 ECM: P0315, P0335, P0336 | >= 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 | MIL not Illuminated for DTC's: TCM: None ECM: None | | 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 | System voltage System voltage | >= 10 V =< 32 V MIL not Illuminated for DTC's: TCM: None ECM: None | > 30 Sec | One Trip |
| 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 |

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|--|---------------|--|---|--------------------|---|--------------------------------|-----------------------|---------------|
| | | | | | 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 >= 10 V System voltage =< 32 V Range D or L Range Engine speed >= 450 rpm Vehicle speed >= 7 mph Pedal position >= 12.5 % | TCM: None ECM: None | >= 10 Fail Time (Min) | One Trip |
| Transmission Fluid Temperature Sensor (TFT) | P0712 | Transmission Fluid Temperature Sensor Circuit Low Voltage (short to ground). | A/T Fluid temperature >= 180 C° | | System voltage >= 10 V System voltage =< 32 V | TCM: P0705, P0706 ECM: None | >= 5 Fail Time (Sec) | One Trip |
| 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 | TCM: None ECM: None | >= 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 | TCM: None ECM: None | >= 5 Sec | One Trip |

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|--|---------------|---------------------------------|--------------------------------------|---|--|--|------------------|---------------|
| | | Check pulse input | <u>Fail Case 2</u> Pulse input | No pulse | System voltage System voltage Latest calculated Primary pulley speed | >= 10 V =< 32 V >= 1000 RPM | >= 500 msec | |
| | | | | | Disable Conditions: MIL not Illuminated for DTC's: | TCM: None ECM: None | | |
| 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 System voltage Secondary Pulley speed Range Calculated turbine speed is experienced after engagement Output gear speed is not experienced after engagement | >= 10 V =< 32 V >= 1500 rpm D Range or L Range or R Range < 300 rpm > 250 rpm | >= 10 sec | One Trip |
| | | Pulse input | <u>Fail Case 2</u> Pulse input | No pulse | Disable Conditions: MIL not Illuminated for DTC's: | TCM: P0705, P0706 | >= 500 msec | |
| | | | | | Disable Conditions: MIL not Illuminated for DTC's: | TCM: None ECM: None | | |
| Torque Converter Clutch (TCC) | P0741 | TCC System Stuck OFF | Torque converter slip | $\geq \frac{(40 + \text{Vehicle speed [mph] } \times 1.6/2)}{\text{RPM}}$ | System voltage System voltage TCC Mode Lock up command oil pressure | >= 10 V =< 32 V Commanded Lock > 0.2 MPa | >= 30 Sec | Two Trips |

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|---|---------------|--|-------------------------|-----------------------------------|---|--|------------------|---------------|
| | | | | | 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)] Check vehicle deceleration and the actual gear ratio | <u>Fail Case 1</u> | Actual auxiliary shift gear ratio | without +/-50% range of designed 2nd 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 = 2nd gear | >= 200 msec | One Trip |
| | | | <u>Fail Case 2</u> | Actual auxiliary shift gear ratio | within +/-10% range of designed 1st gear ratio | | | |
| | | | | | 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 | | |

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| Component/ System | Fault Code | Monitor Strategy Description | Malfunction Criteria | Threshold Value | Secondary Malfunction | Enable Conditions | Time Required | Mil Illum. |
|-------------------------------------|---------------|--|------------------------------|--|--|--|------------------|---------------|
| 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 >= 10 V System voltage <= 32 V Range D Range Primary Pulley > 306 rpm Secondary Pulley > 230 rpm Vehicle Speed Rate of Change < 31 mph Pulley ratio Rate of Change < 0.1 Pedal position Rate of Change < 21 % Disable Conditions: MIL not Illuminated for DTC's: TCM: P0717, P0792, P0721, U0100, P0706, P0705, P0963, P0961, P0842, P0843, P0885 ECM: P0315, P0335, P0336 | 5 sec | One Trip |
| | | | <u>Fail Case 2</u> | Target secondary pressure - Actual secondary pressure | > 1.2 MPa | 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° 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 | 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 System voltage <= 32 V A/T Fluid temperature > -20 C° | >= 5 sec | Two Trips | |

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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 | | |
| 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 Range Output speed sensor pulse input starting from IGN-ON | >= 10 V =< 32 V P range or N range = None | >= 10 sec | |
| | | | | | Disable Conditions: MIL not Illuminated for DTC's: | TCM: None ECM: None | | |
| High Clutch Pressure Switch | P0871 | Transmission Fluid Pressure Switch Performance | <u>Fail Case 1</u> High clutch pressure switch status | = ON | Range | P Range or R Range or N range | > 1.5 sec | One Trip |

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|----------------------|---------------|---------------------------------|---|--------------------|--|--|------------------------|---------------|
| | | | | | High clutch pressure command | =< 0 MPa | | |
| | | | | | ROM assembly communication status | Not communicating | | |
| | | | | | Disable Conditions: MIL not Illuminated for DTC's: | TCM: P0705, P0706, P0796, P2715, P2714, P0797, P0961, P0962, P0963, P2720, P2721, P0711, P0712, P0713 | | |
| | | | | | | ECM: None | | |
| | | | <u>Fail Case 2</u> High clutch pressure switch status | = ON | | | > 1.5 sec | |
| | | | | | Range D range or L range | | | |
| | | | | | High clutch pressure command | =< 0 MPa | | |
| | | | | | Engine speed | > 400 rpm | | |
| | | | | | Current commanded auxiliary shift gear | = 1st gear | | |
| | | | | | Vehicle speed | > 7 Mph | | |
| | | | | | ROM assembly communication status | Not communicating | | |
| | | | | | 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 | | |
| | | | <u>Fail Case 3</u> High clutch pressure switch status | = OFF | | | > Refer to Table 1 sec | |
| | | | | | Range 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 | | |

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|------------------------|---------------|---|--|--------------------|---|------------------------|------------------|---------------|
| | | | | | 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 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 | | | |
| Input Voltage | P0885 | Transmission Control Module (TCM) Power Relay Control Circuit | Power Source | < 8.4 V | System voltage | > 11 V | >= 200 msec | One Trip |
| | | | | | Disable Conditions: MIL not Illuminated for DTC's: | TCM: None ECM: None | | |
| 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 | >= 200 msec | One Trip | |
| | | Check pulley ratio | <u>Fail Case 2</u> (Primary pulley speed /Secondary pulley speed) | > 3.35 | 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 | >= 100 msec | | |

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|---------------------------|---------------|--|--|------------------------|---|--|------------------|---------------|
| | | | | | 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 | | |
| 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 | > 480 msec | One Trip |
| | | | | | Disable Conditions: MIL not illuminated for DTC's: | TCM: P0967 ECM: None | | |
| 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 Primary Pressure Solenoid command | >= 10 V =< 32 V = FALSE = ON | > 200 msec | One Trip |
| | | | | | 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 |

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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: 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 |
| ROM Assembly | P1790 | Data mismatch | Data miss match between ROM assembly data and NVM data | = TRUE | ROM assembly read succeed Output speed sensor pulse input starting from IGN-ON | = TRUE = None | | One Trip |
| 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 | <u>Fail Case 1</u> Actual auxiliary shift gear ratio | outside a +/-50% range of designed 1st gear ratio | System voltage System voltage Engine speed Output gear speed Secondary pulley speed Range D Range or L Range Vehicle speed Vehicle G Current commanded auxiliary shift gear | >= 10 V =< 32 V > 625 rpm > 300 rpm > 300 rpm => 7 Mph < -0.05 G = 1st Gear | >= 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 current commanded gear ratio and actual gear ratio | <u>Fail Case 2</u> Actual auxiliary shift gear ratio | within +/-10% range of designed 2nd 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 | >= 500 msec | |
| | | | <u>Fail Case 3</u> High clutch pressure switch status | = ON | 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 | > 1.5 sec | |
| | | | | | 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 Pedal position >= 7.8 % Current commanded auxiliary shift gear = 1st Gear | | | |
| | | | | | 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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|---------------------------------|---------------|--|---|--------------------|--|--|------------------|---------------|
| | | | Fail Case 4 High clutch pressure switch status | = ON | <p>Disable Conditions: MIL not illuminated for DTC's:</p> <p>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</p> <p>Disable Conditions: MIL not illuminated for DTC's:</p> | <p>TCM: P2714, P0797, P0796, P2715, P0970, P0971, P2720, P2721, P0721, P0792, P0717, P0706, P0705, P0871</p> <p>ECM: P0315, P0335, P0336</p> | > 1.5 sec | |
| 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 | <p>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 = 2nd gear</p> | <p>TCM: P2714, P0797, P0796, P2715, P0970, P0971, P2720, P2721, P0721, P0792, P0717, P0706, P0705, P0871</p> <p>ECM: P0315, P0335, P0336</p> | >= 2 sec | One Trip |

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|----------------------------|---------------|--|--|------------------------|--|--|------------------|---------------|
| | | | | | 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 |
| 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 |
| 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 |

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|----------------------|---------------|---|--|------------------------|--|--|---|---------------|
| | | | | | 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 System voltage System voltage over Min for Ignition On for Engine speed Calculated turbine speed | >= 10 V =< 32 V > 2 sec > 2 sec >= 600 rpm >= 600 rpm | > 3 Sec or > ID Periodic Interval × 5 times | One Trip |
| | | | | | 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 | System voltage System voltage System voltage over Min for Ignition On for Engine speed Calculated turbine speed | >= 10 V =< 32 V > 2 sec > 2 sec >= 600 rpm >= 600 rpm | > 2 Sec or > ID Periodic Interval × 5 times | One Trip |

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|----------------------|---------------|---------------------------------|-------------------------|------------------------|--------------------------------|------------------------|------------------|---------------|
| | | | | Disable Conditions: | MIL not Illuminated for DTC's; | TCM: None ECM: None | | |

14 OBDG03 TCM Supporting 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 |