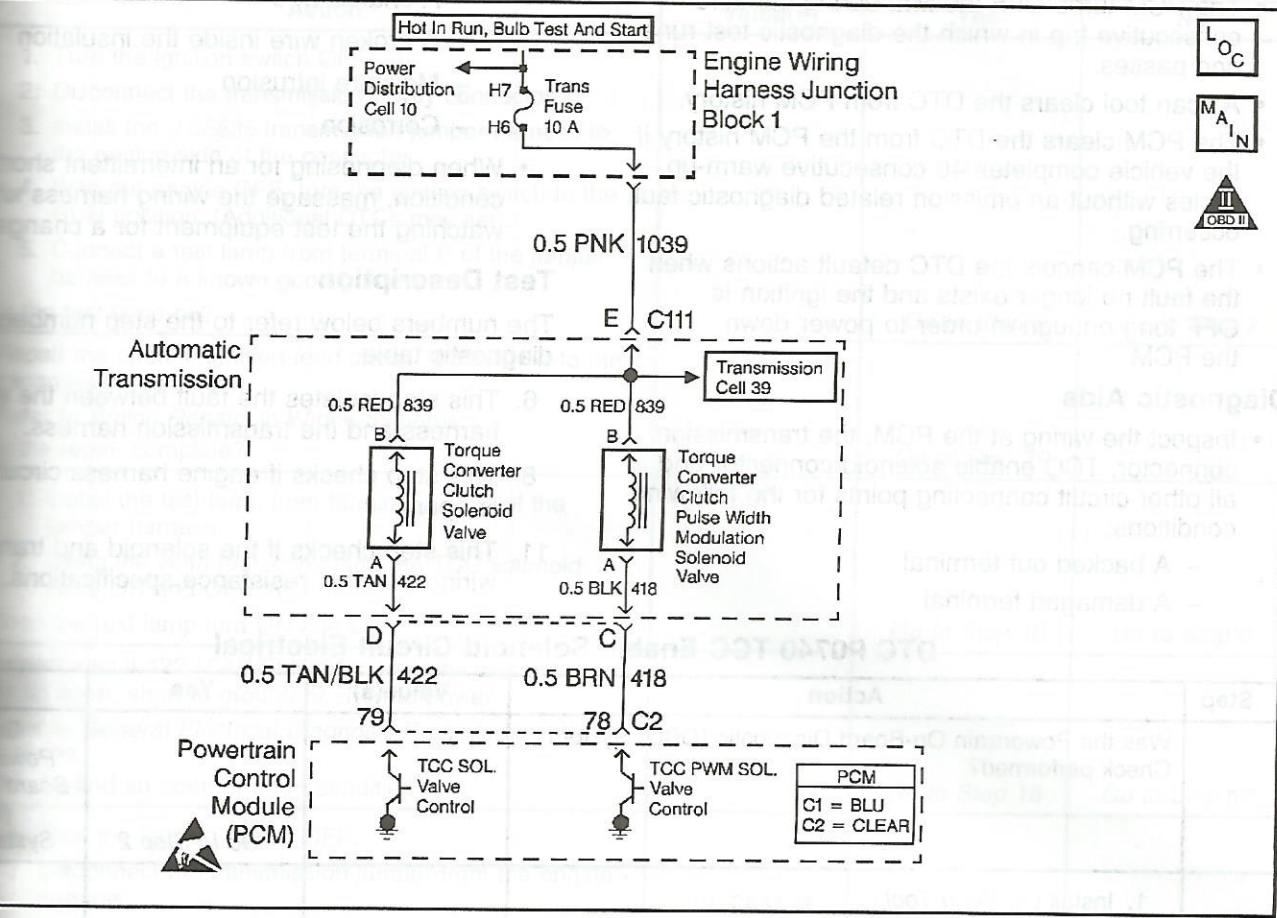


DTC Enable Solenoid Circuit Electrical



365240

Description

The torque converter clutch (TCC) solenoid valve is a normally OFF (normally OFF) valve which controls the converter clutch apply and release. The torque converter clutch pulse width modulation (TCC PWM) valve works with the TCC solenoid valve to regulate the clutch apply rate (feet). The PCM controls the duty cycle on the TCC PWM solenoid to regulate the feed pressure to the converter regulator valve, which in turn, regulates the converter clutch apply pressure.

The TCC solenoid valve receives ignition voltage from terminal 839. The PCM controls the ground path on terminal 422 to turn the solenoid on and off. The PCM uses throttle position, vehicle speed and other information in order to determine when to energize the solenoid. When the solenoid is OFF, the PCM will receive a high (ignition voltage) signal. When the solenoid is ON, the PCM will receive a zero voltage signal.

If the PCM detects a continuous open or short in the TCC solenoid valve circuit, then DTC P0740 is a type B DTC.

Conditions for Running the DTC

- System voltage is 10–18 volts.
- The engine speed is greater than 500 RPM for 5 seconds.
- Not in fuel shut off.

Conditions for Setting the DTC

DTC P0740 sets if one of the following conditions exists for 5 seconds:

Condition 1

The PCM commands the solenoid ON, and the voltage signal to the PCM remains high (B+).

Condition 2

The PCM commands the solenoid OFF, and the voltage signal to the PCM remains low (0 volts).

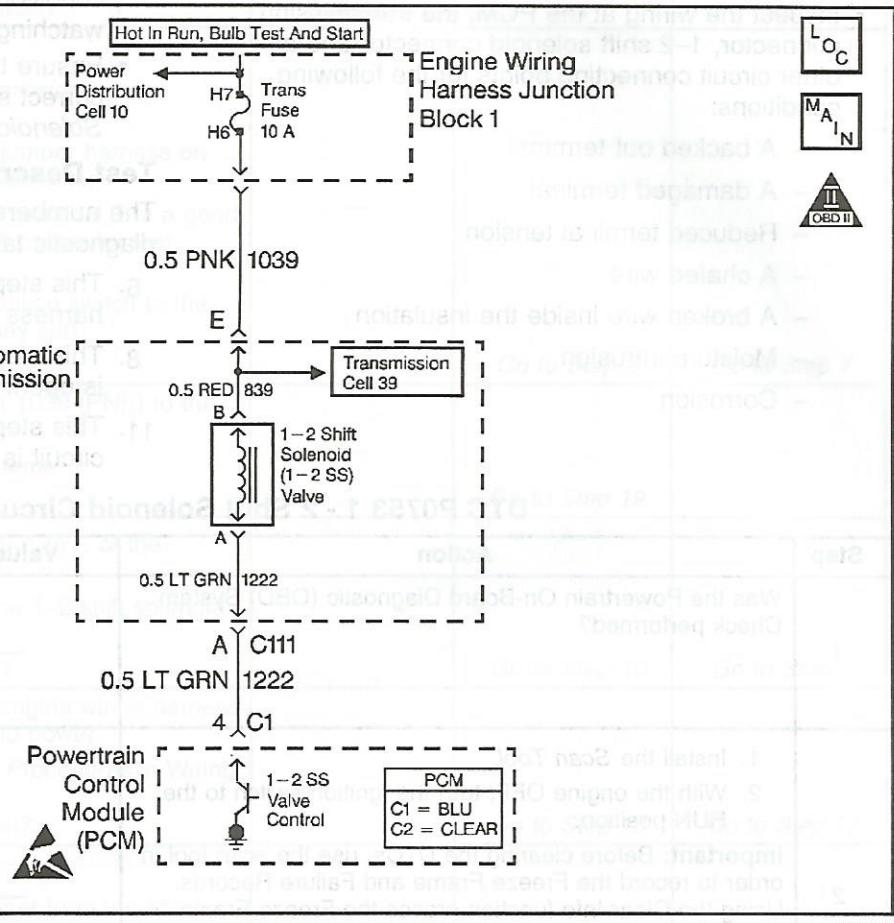
Action Taken When the DTC Sets

- The PCM inhibits TCC.
- The PCM inhibits 4th gear, if the transmission is in hot mode.
- The PCM illuminates the malfunction indicator lamp (MIL) during the second consecutive trip in which the conditions for setting the DTC are met.

DTC P0740 TCC Enable Solenoid Circuit Electrical (cont'd)

Action	Value(s)	Yes	No
1. Turn the ignition switch OFF. 2. Disconnect the transmission 7-way connector. 3. Install the J 38835 transmission jumper harness to the engine side of the connector. 4. With the engine OFF, turn the ignition switch to the RUN position. (Additional DTCs may set). 5. Connect a test lamp from terminal E of the jumper harness to a known good ground.	—	Go to Step 8	Go to Step 7
Is the test lamp on? Repair the open in ignition feed circuit 1039 (PNK) to the transmission connector. Refer to <i>Wiring Repairs</i> in <i>Wiring Systems</i> .	—	Go to Step 19	—
Is the repair complete? 1. Install the test lamp from terminal E to D of the jumper harness. 2. Using the scan tool, command the TCC solenoid valve ON and OFF three times.	—	Go to Step 10	Go to Step 9
Does the test lamp turn ON and OFF? Inspect circuit 422 (TAN/BLK) of the engine wiring harness for an open, short to ground or short to power. Refer to <i>General Electrical Diagnosis Procedures</i> in <i>Wiring Systems</i> .	—	Go to Step 18	Go to Step 17
Did you find an open or short condition? 1. Turn the ignition switch OFF. 2. Disconnect the transmission jumper from the engine harness. 3. Connect the transmission jumper to the <i>Automatic Transmission</i> 7-way connector on the transmission. 4. Connect a J 39200 digital multimeter (DMM) from terminal E to terminal D of the jumper.	19–24 Ω @ 20°C (68°F) 24–31 Ω @ 88°C (190°F)	Go to Step 11	Go to Step 12
Is the measured resistance within the specified range? Connect DMM from jumper terminal D to A, B, C, F and the transmission case.	100 Ω	Go to Step 16	Go to Step 15
Are all resistances greater than the specified value?	31 Ω	Go to Step 13	Go to Step 14
Is the resistance greater than the specified value? Inspect the transmission harness circuit 839 (RED) and circuit 422 (TAN) for an open. Refer to <i>General Electrical Diagnosis Procedures</i> in <i>Wiring Systems</i> .	—	Go to Step 15	Go to Step 16
Was a condition found? Disconnect wiring harness from the TCC solenoid. Connect DMM from jumper terminal D to terminal E.	100 Ω	Go to Step 16	Go to Step 15
Is resistance greater than the specified value? Replace the automatic transmission wiring harness. Refer to <i>Solenoids and Wiring Harness Replacement</i> .	—	Go to Step 19	—
Is the replacement complete? Replace the TCC solenoid valve. Refer to <i>Torque Converter Clutch Solenoid Replacement</i> .	—	Go to Step 19	—
Was the replacement complete? Replace the PCM. Refer to <i>PCM Replacement/Programming</i> in <i>Engine Controls</i> .	—	Go to Step 19	—

1753 1 - 2 Shift Solenoid Circuit Electrical



365243

Description

The shift solenoid valve (1 - 2 SS Valve) controls transmission fluid pressure on the 1 - 2 shift. Circuit 1039 provides ignition voltage to the solenoid. The powertrain control module (PCM), controls the solenoid ON and OFF by closing and opening the ground, and monitors voltage levels. When the 1 - 2 SS valve is commanded ON, the PCM detects a low voltage. When the 1 - 2 SS Valve is commanded OFF, the PCM detects a high voltage. The DTC sets if the received voltage is outside the specified limits, indicating an open or short. This is a type B DTC.

Conditions for Running the DTC

The voltage is 10–18 volts. The engine speed is greater than 500 RPM. The fuel shut off.

Conditions for Setting the DTC

The DTC sets if one of the following conditions occurs for 5 seconds:

Condition 1: The PCM commands the solenoid ON and the voltage at the PCM remains high (B+).

Condition 2: The PCM commands the solenoid OFF and the

Action Taken When the DTC Sets

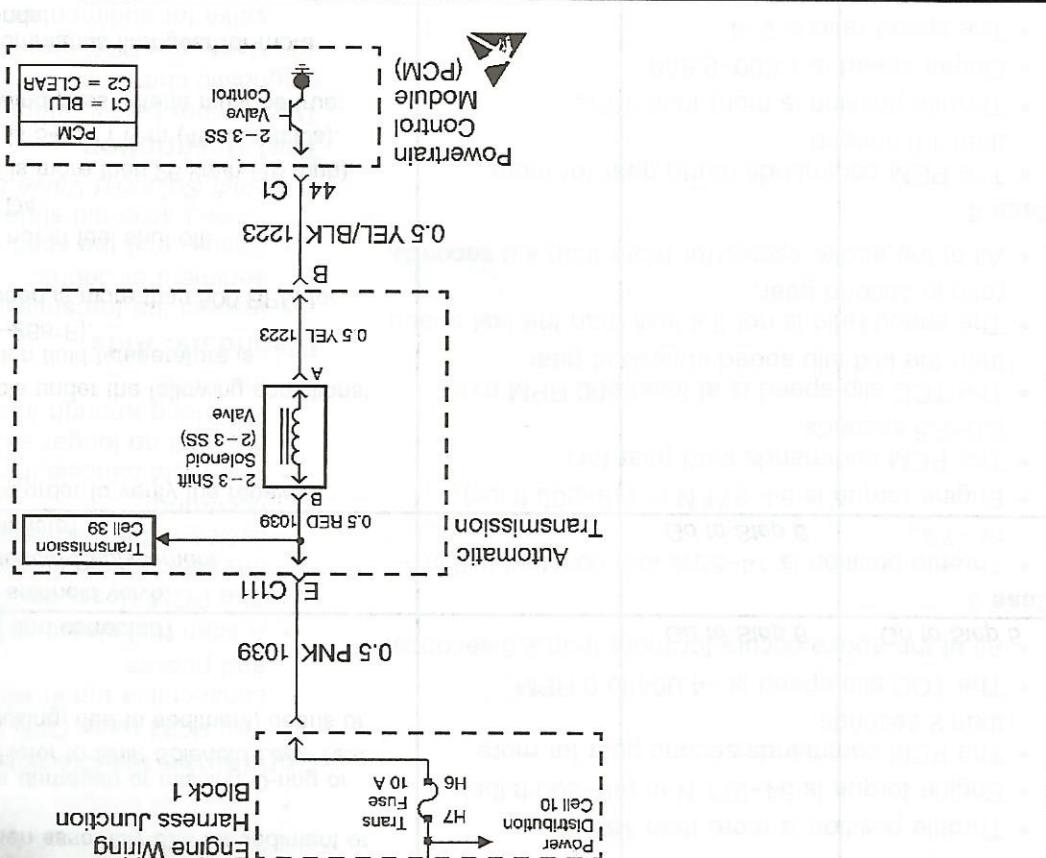
- The PCM inhibits commanded 3–2 downshifts if the vehicle speed is greater than 48 km/h (30 mph).
- The PCM illuminates the malfunction indicator lamp (MIL) during the second consecutive trip in which the conditions for setting the DTC are met.

Conditions for Clearing the MIL/DTC

- The PCM turns OFF the MIL during the third consecutive trip in which the diagnostic test runs and passes.
- A scan tool clears the DTC from PCM history.
- The PCM clears the DTC from the PCM history if the vehicle completes 40 consecutive warm-up cycles without an emission related diagnostic fault occurring.
- The PCM cancels the DTC default actions when the fault no longer exists and the ignition is OFF long enough in order to power down the PCM.

5	Replace the 1 - 2 Shift Solenoid. Refer to 1 - 2 Shift Solenoid Replacement.	Is the replacement complete? Go to Step 6	Perform the following in order to verify the repair: 1. Select DTC. 2. Select Clear Info. 3. Operate the vehicle under the following conditions: <ul style="list-style-type: none">• The traction control is not active.• The transmission fluid temperature is 20-130°C (68-266°F).• The engine speed is more than 500 RPM for 5 seconds.• The vehicle is not in fuel shut off.• The gear range is D4.• All the conditions in the following pass cases must be met: Case 1<ul style="list-style-type: none">• The vehicle speed is more than 8 km/h (5 mph).• Within + or - 3%.• The vehicle position is 18 - 55% and constant within + or - 10%.• The PCM commands a 2 - 3 shift.• The engine must be 130 RPM less than the last gear speed in 2nd gear. Case 2<ul style="list-style-type: none">• Within 2 seconds, the engine speed in 3rd gear must be 250 RPM less than the last engine speed in 4th gear within + or - 7%.• The vehicle position is 5-40% and constant within + or - 4%.• The PCM commands a 3 - 4 shift.• Within 1.0 second, the engine speed in 4th gear must be 250 RPM less than the last engine speed in 3rd gear. Case 3<ul style="list-style-type: none">• Within 2.5 seconds, the engine speed in 3rd gear must be 130 RPM less than the last engine speed in 2nd gear within + or - 10%.• The vehicle position is 32-89 km/h (20-55 mph).• The vehicle speed is 56-121 km/h (35-75 mph).• Within 1.0 second, the engine speed in 4th gear must be 250 RPM less than the last engine speed in 3rd gear within + or - 7%.• The vehicle position is 5-40% and constant within + or - 4%.• The PCM commands 4th gear.• The TCC is commanded ON.• The throttle position is 2-30%.• The speed ratio is 0.68-0.82.• The TCC slip speed is 0 - 50 RPM for more than 3 seconds.• Enter DTC P0751.• Select Specific DTC.	Has the test run and passed? System OK Go to Step 6

- Action Taken When the DTC Sets**
- The PCM illuminates the manufacturer lamp (MIL).
 - The PCM inhibits TCC operation.
 - The PCM commands 3rd gear only.
 - A scan tool clears the DTC from the PCM.
 - Consecutive trip in which the diagnostic and passes.
 - The PCM turns OFF the MIL during consecutive trip in which the diagnostic and passes.
 - The PCM clears the DTC from the PCM for cycles without an emission related fault no longer exists and the ignition OFF long enough in order to power the PCM.
 - The PCM cancels the DTC default if the PCM continues to receive a voltage signal to the PCM remains low (0 volts).
- Conditions for Running the DTC**
- System voltage is 10-18 volts.
 - The engine speed is greater than 500 RPM for 5 seconds.
 - Not in fuel shut off.
 - The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).
 - The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).
- Conditions for Setting the DTC**
- DTC P0758 sets if either of the following occurs continuously for 5 seconds:



Diagnostic Aids

Inspect the wiring at the PCM, the transmission selector, 2-3 shift solenoid connector and all circuit connecting points for the following conditions:

- A backed out terminal
- A damaged terminal
- Reduced terminal tension
- A chafed wire
- A broken wire inside the insulation
- Moisture intrusion
- Corrosion

- When diagnosing for an intermittent short or open condition, massage the wiring harness while watching the test equipment for a change.
- Ensure that the scan tool commanded gear has correct solenoid states and ratio. Refer to *Shift Solenoid Valve State and Gear Ratio* table.

Test Description

The numbers below refer to the step numbers on the diagnostic table.

6. This step isolates the fault between the engine harness and the transmission harness.
8. This step checks if the engine harness circuit 1223 is open.
11. This step checks if the solenoid and transmission circuit is within resistance specifications.

DTC P0758 2 - 3 Shift Solenoid Circuit Electrical

Action	Value(s)	Yes	No
Were you sent here from the Powertrain On-Board Diagnostic (OBD) System Check?	—		Go to A Powertrain On Board Diagnostic (OBD) System Check
1. Install the Scan Tool. 2. With the engine OFF, turn the ignition switch to the RUN position. Important: Before clearing the DTCs, use the scan tool in order to record the Freeze Frame and Failure Records. Using the Clear Info function erases the Freeze Frame and Failure Records from the PCM. 3. Record the Freeze Frame and Failure Records. 4. Clear the DTC.	—		
Are DTCs P0740, P0753 or P1860 set also?		Go to Step 3	Go to Step 6
1. Remove the Trans fuse. 2. Inspect the fuse for an open. Refer to <i>Wiring Repairs</i> in <i>Wiring Systems</i> . Was a condition found and corrected?	—		Go to Step 4
Inspect for open or short to ground in engine harness circuit 1039 (PNK). Refer to <i>General Electrical Diagnosis Procedures</i> in <i>Wiring Systems</i> . Was a condition found?	—		Go to Step 5
Inspect for open or short to ground in transmission harness circuit 839 (RED). Refer to <i>General Electrical Diagnosis Procedures</i> in <i>Wiring Systems</i> . Was a condition found?	—	Go to Step 18	Go to Step 5

16	Refer to 2 - 3 SH Replace the 2 - Is the replacement
15	Refer to SH Replace the Is the replacement
14	Connect the Diode Was a cycle, assure imum. At 418 to vary did. The nouts in order to uses ignition cycles in order to sure.
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Action Taken When the DTC Sets

- The PCM inhibits 4th gear if the transmission limits for 5 seconds.
- The PCM illuminates the malfunction indicator lamp (MIL) during the second consecutive trip in which the conditions for setting the trip mode.
- The PCM inhibits TCC operation.
- The PCM inhibits TCC operation.

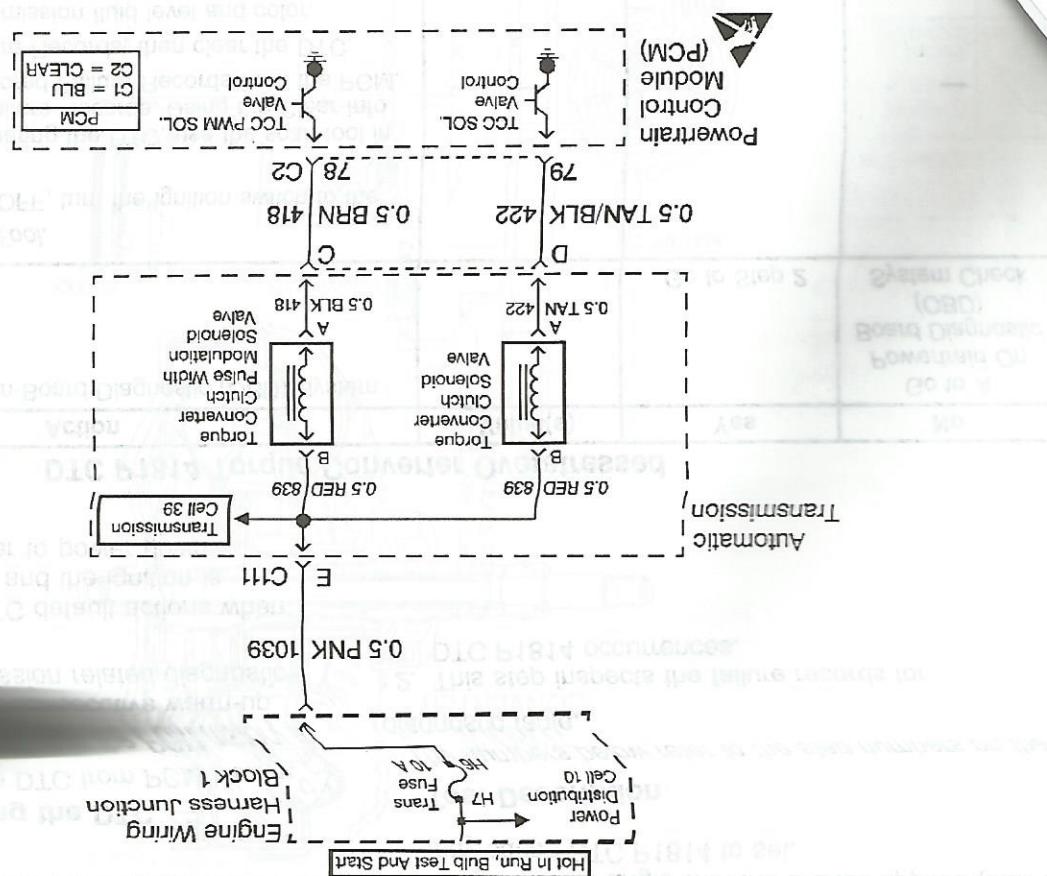
Conditions for Setting the DTC

- DTC P1860 sets when the PCM commands a signal voltage on circuit 418 outside the calibration limits 10% or above 90%, and the PCM detects below 10% or less than 10% of than 90%.
- TCC PWM duty cycle is less than 10% of than 90%.
- Not in fuel shut off.
- 5 seconds.
- The engine speed is more than 500 RPM normally OFF valve which controls inverter clutch (TCC) solenoid valve is applied and released. The torque converter clutch module valve with the TCC solenoid (TCC PWM) uses width modulation (TCC PWM) pressure to the converter clutch module (PCM) in turn, regulates the TCC PWM solenoid rate (feel). The PCM

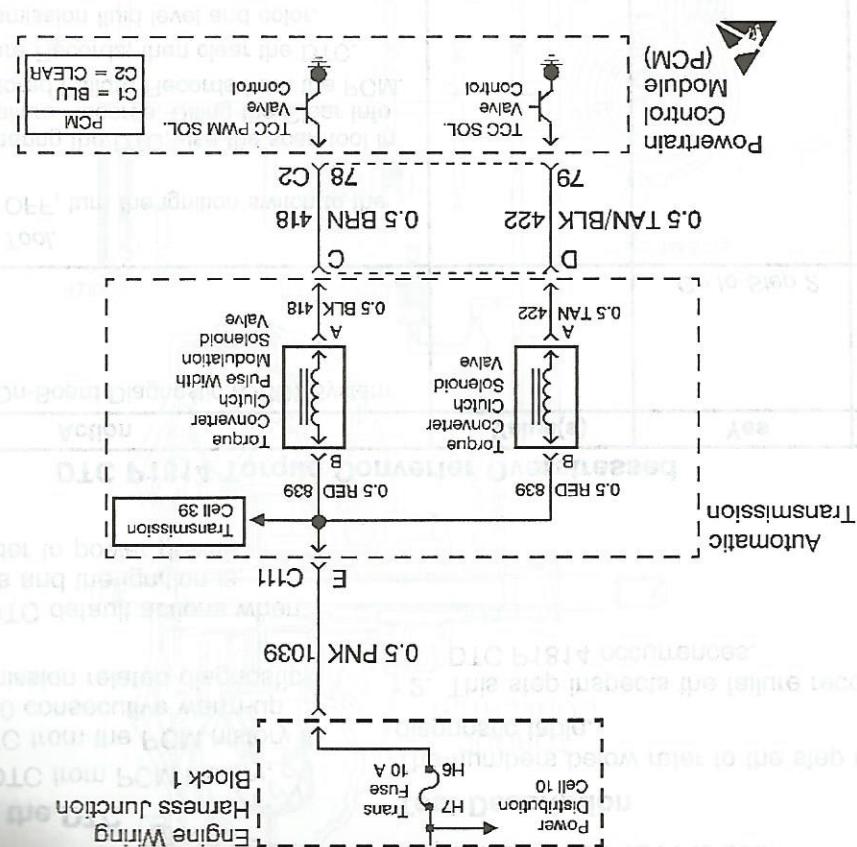
Conditions for Running the DTC

- System voltage is 10-18 volts.

Description



Circuit Description



Action Taken When the DTC Sets

- The PCM illuminates the malfunction indicator lamp (MIL) during the second consecutive trip in which the conditions for setting the hot mode.
- The PCM inhibits the TCC operation.
- The PCM limits the signal voltage on circuit 418 outside the car below 10% or above 90%, and the PCM deactivates the ground path of circuit 418 when the car speed is more than 500 RPM.
- The engine speed is more than 10–18 RPM.
- System voltage is 10–18 volts.
- Not in fuel shut off.
- TCC PWM duty cycle is less than 10% than 90%.
- TCC PWM duty cycle is less than 10% than 90%.

Conditions for Setting the DTC

- The torque converter clutch (TCC) solenoid valve is an ON/OFF (normally OFF) valve which controls the torque converter clutch apply and release. The torque converter clutch pulse width modulation (TCC PWM) solenoid valve works with the torque converter clutch apply module. At the same time, the torque converter clutch pulse width modulation (TCC PWM) solenoid valve to regulate the clutch apply rate (feee). The PCM controls the clutch converter clutch pulse width modulation (TCC PWM) solenoid valve to regulate the clutch apply valve in turn, regulates clutch regulator valve, which in turn, regulates clutch converter clutch pulse width modulation (TCC PWM) solenoid valve to regulate the clutch apply rate (feee).
- The torque converter clutch (TCC) solenoid valve is controlled by the PCM. The PCM uses the torque converter clutch apply pressure to vary the ground path of circuit 418 to determine whether the vehicle is at minimum, position, vehicle speed, and other inputs in order to determine when to energize the solenoid. The PCM controls the ground path of circuit 418 to vary the duty cycle from 0 to 100%. At 0% duty cycle, the converter clutch pressure is at minimum. At 100% duty cycle, the converter clutch apply pressure is at maximum.
- The PCM illuminates the malfunction indicator lamp (MIL) during the second consecutive trip in which the conditions for setting the hot mode.
- The PCM inhibits TCC operation.
- The PCM limits the signal voltage on circuit 418 outside the car below 10% or above 90%, and the PCM deactivates the ground path of circuit 418 when the car speed is more than 500 RPM.
- The engine speed is more than 10–18 RPM.
- System voltage is 10–18 volts.
- Not in fuel shut off.
- TCC PWM duty cycle is less than 10% than 90%.
- TCC PWM duty cycle is less than 10% than 90%.

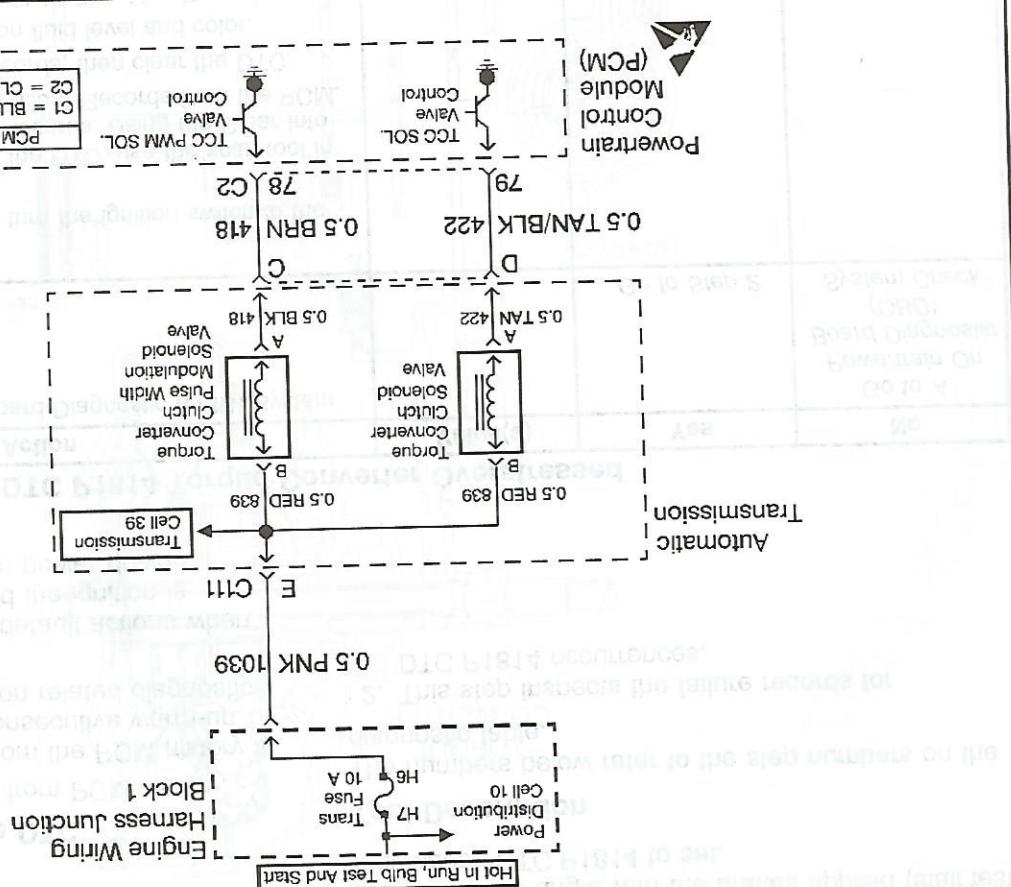
The TCC PWM solenoid valve receives ignition voltage from circuit 1039. The PCM uses the torque converter clutch apply pressure to vary the ground path of circuit 418 to determine whether the vehicle is at minimum, position, vehicle speed, and other inputs in order to determine when to energize the solenoid. The PCM controls the ground path of circuit 418 to vary the duty cycle from 0 to 100%. At 0% duty cycle, the converter clutch pressure is at minimum. At 100% duty cycle, the converter clutch apply pressure is at maximum.

When the PCM detects a continuous open or short in the TCC PWM solenoid valve circuit, then DTC P1860 is at type B DTC.

The TCC PWM solenoid valve is controlled by the converter clutch pressure is at minimum. At the duty cycle from 0 to 100%. At 0% duty cycle, the converter clutch apply pressure is at minimum. At 100% duty cycle, the converter clutch apply pressure is at maximum.

are met.

DTC P1860 TCC PWM Solenoid Circuit Electrical



Circuit Description

The torque converter clutch (TCC) solenoid valve is an ON/OFF (normally OFF) valve which controls the torque converter clutch apply and release. The torque converter clutch pulse width modulation (TCC PWM) solenoid valve works with the modulator valve to control the clutch duty cycle rate (feet). The PCM controls the clutch regulator valve, which in turn, regulates the clutch pressure to the torque converter clutch apply valve to regulate the feed pressure to the TCC PWM solenoid valve to regulate the clutch duty cycle of the clutch apply valve. The TCC PWM solenoid valve receives ignition voltage from circuit 1039. The PCM uses throttle position, vehicle speed, and other inputs in order to determine when to energize the solenoid. The voltage from circuit 418 to vary the duty cycle from 0 to 100%. At 0% duty cycle, the converter clutch apply pressure is at minimum. At 100% duty cycle, the converter clutch apply pressure is at maximum. When the PCM detects a continuous open or short in the TCC PWM solenoid valve circuit, then DTC P1860 is at maximum.

Action Taken When the DTC Sets

- The PCM illuminates the malfunction lamp (MLI) during the second consecutive trip in which the second conditions for setting the PCM inhibit the gear if the transmission is in hot mode.
 - The PCM inhibits 4th gear if the transmission limits for 5 seconds.
 - The PCM inhibits TCC operation.
- DTC P1860 sets when the PCM commands signal voltage on circuit 418 outside the car below 10% or above 90%, and the PCM detects signal 10% or above 90%.
- Conditions for Setting the DTC
- TCC PWM duty cycle is less than 10% than 90%.
 - Not in fuel shut off.
 - The engine speed is more than 500 RPM.
 - System voltage is 10-18 volts.
- Conditions for Running the DTC

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are met.

fluid flow was insufficient, check flow from transmission by disconnecting the feed line at cooler and observing the flow for another seconds.

for the following conditions:

Sufficient Flow — Inspect the transmission causes.

Sufficient Flow — Inspect the cooler pipes, fittings and repeat the cooler flushing procedure. If the flow is still insufficient, replace the cooler.

Move the discharge hose and reconnect the pipes.

the fluid level.

Modulator Diagnosis

Modulator System (4T60-E)

The modulator system on the Hydra-Matic transaxle controls shift feel (may be soft or firm) sensing the changes in the engine load, indicated by the engine vacuum. The does this by controlling the main line boost. The vacuum modulator system may for firm or slipping shift conditions.

Modulator Diagnosis

Hydra-Matic 4T60-E transaxle requires 51 kPa (13–17 inch Hg) of engine vacuum at hot checked at the modulator with the Drive for proper operation. An incorrect supply to the modulator or a malfunctioning may cause some or all of the listed

use harsh upshifts.

use harsh downshifts.

use harsh Park to Reverse engagement.

use harsh Neutral to Drive engagement.

use soft upshifts.

use soft downshifts.

use harsh light throttle upshifts.

use firm light throttle upshifts.

use second gear shifts.

use slips in the Low position.

use slips in the Drive position.

use slips in the Reverse position.

use harsh 3 - 2 coastdown shifts.

use rough 4 - 3 manual downshifts.

use rough 3 - 2 manual downshifts.

use slipping in the Drive position.

use slipping in the Reverse position.

use pressure regulator valve

buzz.

use engine burning transaxle fluid.

The following may cause an incorrect engine vacuum signal at the modulator:

- A pinched vacuum line.
- A cut vacuum line.
- A plugged vacuum line.
- A disconnected vacuum line.

Also, the engine mechanical and the operating conditions related to the following may result in incorrect engine vacuum or poor transaxle performance:

- The fuel.
- The ignition.
- The exhaust.
- The emission systems.

Disconnect the vacuum supply line at the modulator and install a vacuum gage to the line to check for the proper vacuum. Locate the cause and correct as required if there is less than 44–57 kPa (13–17 inch Hg) of vacuum at hot engine idle with the transaxle in Drive. The gage reading must respond quickly (only 1/10th of a second delay) to the throttle movement because the vacuum is supplied through a 0.031 inch orifice in order to stabilize the line pressure when shifting the transaxle between forward and reverse ranges.

Remove the modulator and remove the modulator valve if there is enough engine vacuum available to the modulator. Inspect the valve for nicks. Inspect the valve for scoring. Connect a hand-operated vacuum pump to the modulator. Pump the device until 51–68 kPa (15–20 inch Hg) of vacuum is reached while observing the modulator plunger. The modulator plunger should be drawn in as the vacuum pump is operated. The vacuum should not bleed down for at least 30 seconds after reaching 51–68 kPa (15–20 inch Hg). Perform the next test if the modulator checks okay.

If the following conditions are met then the shift problem is not vacuum related:

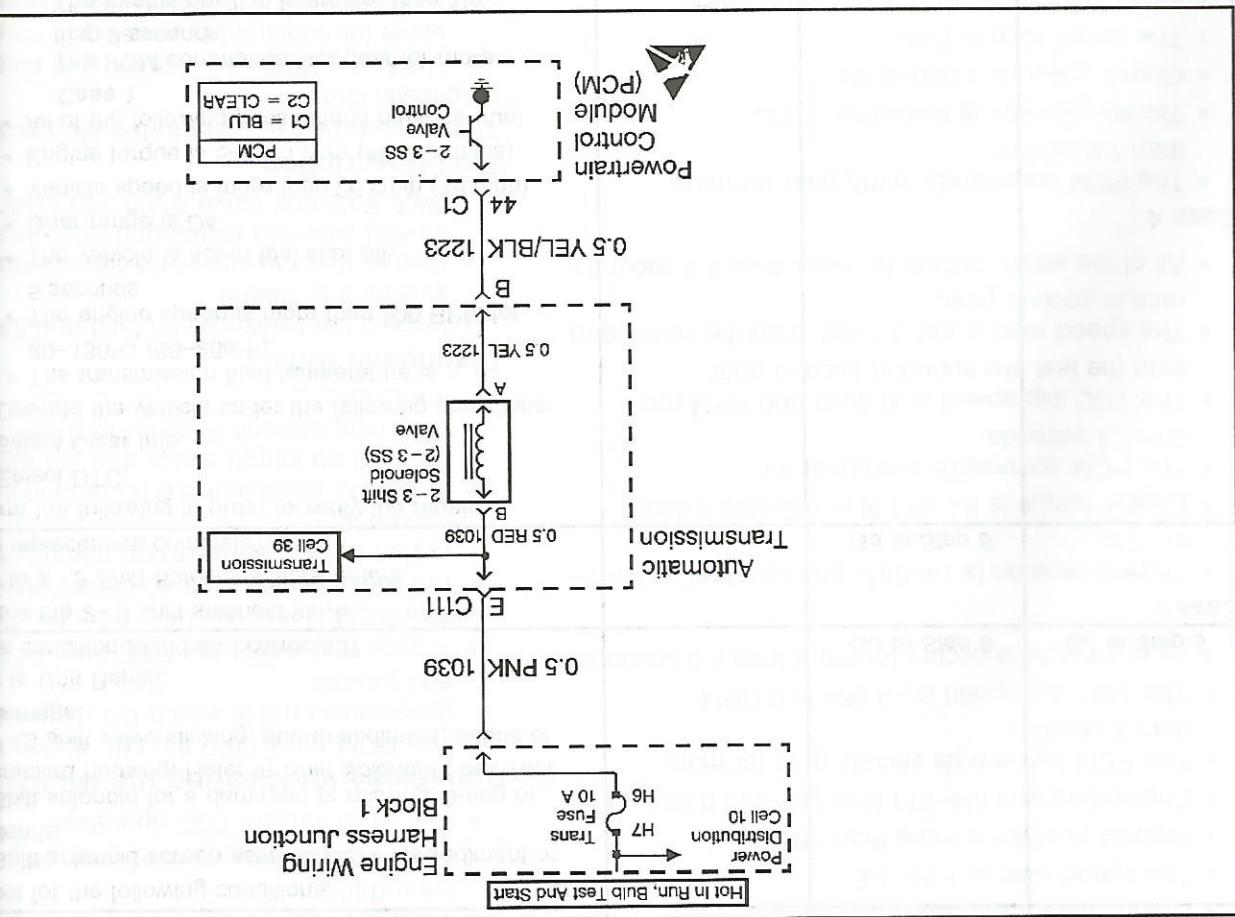
- The vacuum signal is within the specifications.
- The modulator is functioning properly.
- The modulator valve is undamaged.

Perform the oil pressure check outlined in the Hydra-Matic 4T60-E diagnosis section if the above conditions are met. Refer to the appropriate diagnosis if the pressures are out of specifications.

Vacuum Diaphragm Check Procedure

Perform the following steps to inspect the vacuum diaphragm:

1. Turn the modulator so that the vacuum connector faces down.
2. Replace the modulator if any of the following liquid drains out:
 - If transaxle fluid drains out.
 - If water condensate drains out.
 - If gasoline drains out.

**Action Taken When the DTC Sets**

- The PCM illuminates the malfunction lamp (MIL).
- A lamp (MIL).
- The PCM commands 3rd gear only.
- The PCM inhibits TCC operation.
- The PCM turns OFF the MIL during consecutive trip in which the diagnostic and passes.
- The PCM clears the DTC from the PCM.
- A scan tool clears the DTC from the PCM.
- The PCM cancels the DTC if the fault no longer exists and the ignition coil is long enough in order to power the PCM.

Conditions for Clearing the MIL/DTC

- The PCM receives high voltage from the 2 - 3 SS valve.
- The PCM commands the 2 - 3 SS valve to open.
- The PCM receives low voltage from the 2 - 3 SS valve.
- The PCM receives low voltage from the 2 - 3 SS valve.
- The PCM turns OFF the MIL during consecutive trip in which the diagnostic and passes.
- The PCM cancels the DTC if the fault no longer exists and the ignition coil is long enough in order to power the PCM.
- The PCM cancels the DTC if the fault no longer exists and the ignition coil is long enough in order to power the PCM.

DTC P0758 sets if either of the following occurs continuously for 5 seconds:

- The PCM commands the solenoid ON and the voltage signal to the PCM remains low (0 volts).
- The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).
- The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).
- Not in fuel shut off.
- 5 seconds.
- The engine speed is greater than 500 RPM for 5 seconds.
- System voltage is 10-18 volts.

Conditions for Running the DTC

- DTC P0758 is a type A DTC.

DTC P0758 sets if the received voltage is outside the calibration limits, indicating an open or short. When the 2 - 3 SS valve is commanded OFF, the PCM receives high voltage. When the 2 - 3 SS valve is commanded ON, the PCM receives low voltage. When the 2 - 3 SS valve is commanded OFF, the PCM receives low voltage. When the 2 - 3 SS valve is commanded ON, the PCM receives high voltage. or opening the ground, and monitors voltage levels. commands the solenoid ON or OFF by closing the solenoid. The powertrain control module (PCM) valve. A fused circuit 1039 provides ignition voltage to the transmission fluid pressure on the 2 - 3 shift valve. The 2 - 3 shift solenoid valve (2 - 3 SS valve) controls the transmission fluid pressure on the 2 - 3 shift valve. The 2 - 3 shift solenoid valve (2 - 3 SS valve) controls the transmission fluid pressure on the 2 - 3 shift valve. The 2 - 3 shift solenoid valve (2 - 3 SS valve) controls the transmission fluid pressure on the 2 - 3 shift valve.

Circuit Description

- The PCM commands the solenoid ON and the voltage signal to the PCM remains low (0 volts).
- The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).
- The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).
- The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).

voltage signal to the PCM remains low (0 volts).

- The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).
- The PCM commands the solenoid ON and the voltage signal to the PCM remains high (B+).

voltage signal to the PCM remains high (B+).

Conditions for Setting the DTC

- Not in fuel shut off.
- 5 seconds.
- The engine speed is greater than 500 RPM for 5 seconds.
- System voltage is 10-18 volts.