

## DTC P0806: Clutch Pedal Position (CPP) Sensor Circuit Performance

### Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
CPP Sensor Signal	P0807	P0807	P0808	P0806
CPP Sensor 5-Volt Reference	P0651, P0807	P0807	P0651, P0808	--
CPP Sensor Low Reference	--	P0808	P0808	--

### Typical Scan Tool Information

<u>CPP Sensor Voltage</u>			
Circuit	Short to Ground	Open	Short to Voltage
<i>Operating Conditions:</i> Ignition ON. <i>CPP Sensor Voltage Parameter Normal Range:</i> 0-volts with clutch pedal applied to 5-volts when clutch pedal is released.			
CPP Sensor 5-Volt Reference	0 volts	0 volts	5 volts
CPP Sensor Signal	0 volts	0 volts	5 volts
CPP Sensor Low Reference	--	5 volts	--

<u>CPP Sensor Percentage</u>			
Circuit	Short to Ground	Open	Short to Voltage
<i>Operating Conditions:</i> Ignition ON. <i>CPP Sensor Percent Parameter Normal Range:</i> 0% with clutch pedal released to 100% when clutch pedal is applied.			
CPP Sensor 5-Volt Reference	100%	100%	0-100%
CPP Sensor Signal	100%	100%	100%
CPP Sensor Low Reference	--	0%	--

### Circuit/System Description

The clutch pedal position (CPP) sensor is a three wire sensor, connected to a 5-volt reference circuit, a low reference circuit, and a signal circuit. The engine control module (ECM) supplies 5 volts to the CPP sensor, and also provides a sensor ground path on the low reference circuit. The CPP sensor sends a voltage signal to the ECM on the signal circuit. The voltage on the signal circuit will vary from a voltage less than or equal to 5 volts when the clutch pedal is released, to a voltage less than or equal to 1.5 volt when the clutch pedal is applied.

### Conditions for Running the DTC

DTCs P0335, P0336, P0502, P0503, P0607, P0808, or P080A are not set.

### Conditions for Setting the DTC

The CPP sensor is stuck in range.

### Action Taken When the DTC Sets

P0806 is a Type A DTC.

### Conditions for Clearing the MIL/DTC

P0806 is a Type A DTC.

### Reference Information

#### **Schematic Reference**

[Manual Transmission Schematics](#)

**Connector End View Reference**

[Component Connector End Views](#)

#### **Description and Operation**

[Manual Transmission Description and Operation](#)

#### **Electrical Information Reference**

- [Circuit Testing](#)
- [Connector Repairs](#)
- [Testing for Intermittent Conditions and Poor Connections](#)
- [Wiring Repairs](#)

#### **DTC Type Reference**

[Powertrain Diagnostic Trouble Code \(DTC\) Type Definitions](#)

#### **Scan Tool Reference**

[Control Module References](#) for scan tool information.

## Circuit/System Verification

1. Ignition ON, observe the scan tool CPP sensor percent parameter. The percentage should vary from 0 percent when the clutch pedal is released, to 100 percent when the clutch pedal is in the apply position.
2. Perform the CPP learn procedure. Refer to [Clutch Pedal Position Sensor Learn](#).
3. Operate the vehicle within the conditions for running the DTC to verify the DTC does not reset. You may also operate the vehicle within the conditions that you observed from the Freeze Frame/Failure Records data.

## Circuit/System Testing

1. Ignition OFF, disconnect the harness connector of the CPP sensor.
2. Ignition ON, observe the scan tool CPP sensor voltage parameter for 0.1-volt.  
 ⇒If the voltage is below the specified value, replace the CPP sensor.  
 ⇒If the voltage is above the specified value, replace the ECM.

## Component Testing

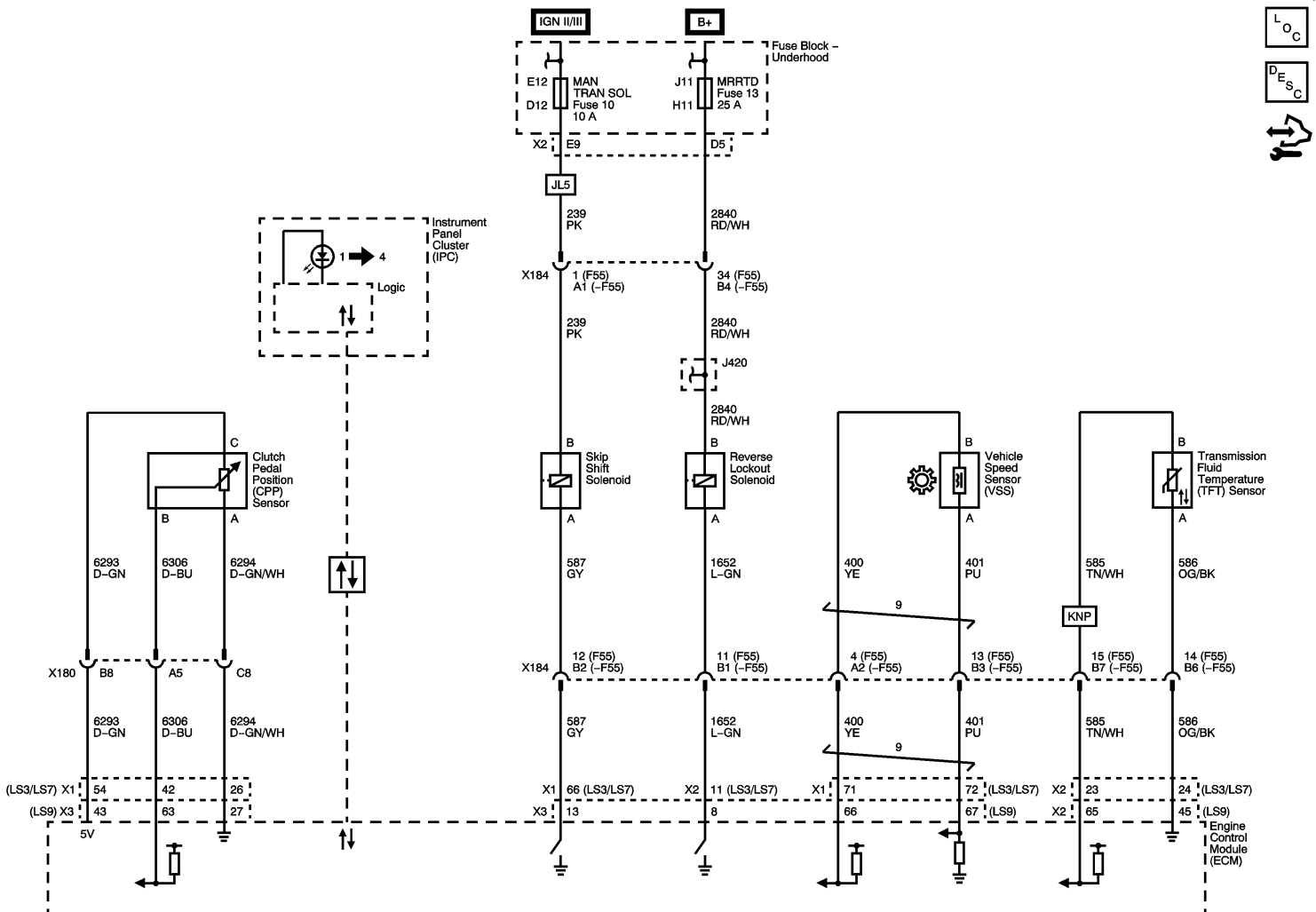
1. Ignition OFF, disconnect the harness connector of the CPP sensor.
2. Measure the resistance between the signal terminal B and the low reference terminal A of the CPP sensor. Sweep the CPP sensor through the entire range. The resistance should vary low to high and high to low without any spikes or dropouts.  
 ⇒If the resistance is erratic with spikes or dropouts, replace the CPP sensor.

## Repair Instructions

Perform the [Diagnostic Repair Verification](#) after completing the diagnostic procedure.

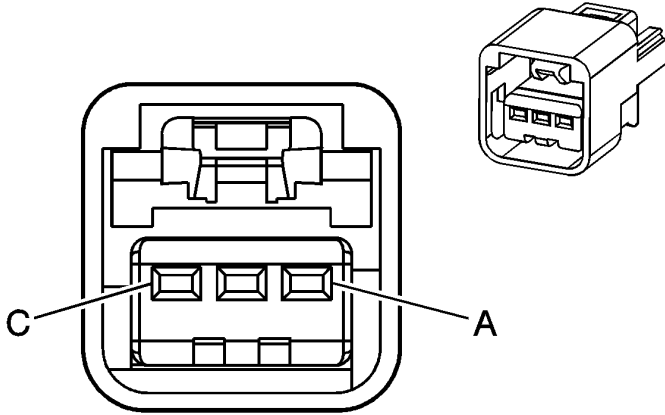
- [Clutch Pedal Replacement](#)
- [Control Module References](#) for ECM replacement, setup and programming

## Manual Transmission Schematics



## Clutch Position Sensor Connector End View

### Clutch Pedal Position (CPP) Sensor (MM6/MZ6/MN6)



#### Connector Part Information

OEM: 15332132

Service: 88953364

Description: 3-Way F GT 150 Series (BK)

#### Terminal Part Information

Terminal/Tray: 12191812/19

Core/Insulation Crimp: E/C

Release Tool/Test Probe: 15315247/J-35616-2A (GY)

<u>Clutch Pedal Position (CPP) Sensor</u> <u>(MM6/MZ6/MN6)</u>	Wire	Circuit	Function
Pin			
A	0.35 D-GN/WH	6294	Low Reference
B	0.35 D-BU	6306	Clutch Pedal Position Sensor Signal
C	0.35 D-GN	6293	5-Volt Reference