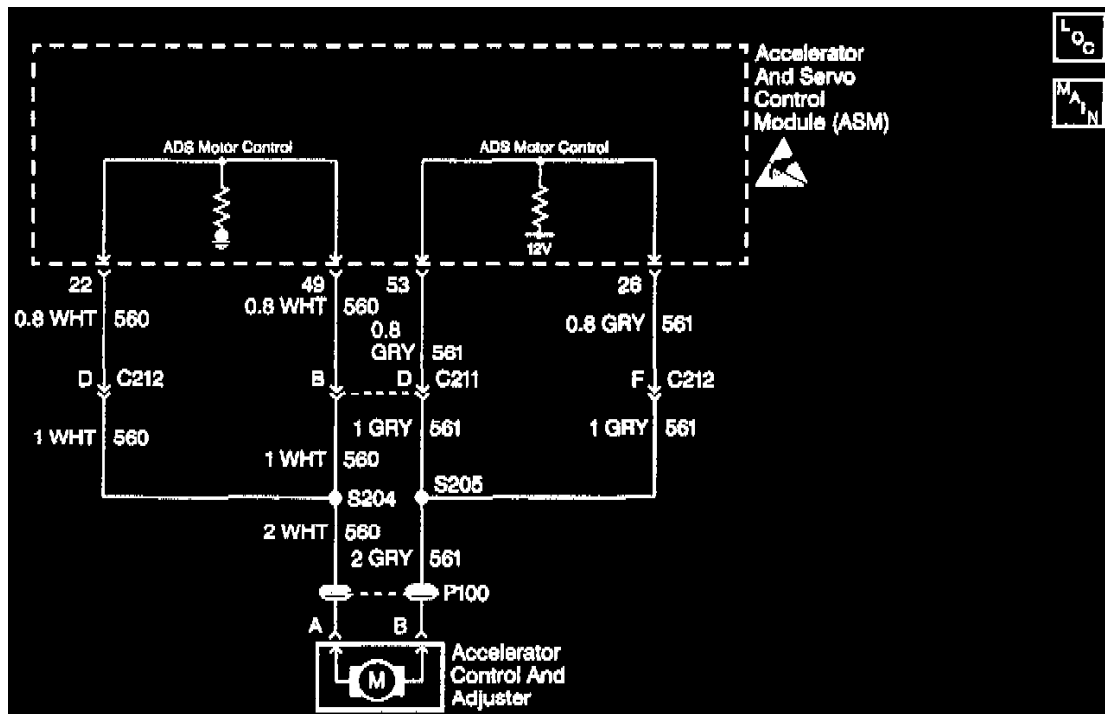


Computers and Control Systems: Diagnostic Trouble Code Tests and Associated Procedures

C0181



Step	Action	Value(s)	Yes	No
1	Was the Diagnostic System Check performed?	—	Go to Step 2	Go to Diagnostic System Check
2	<ol style="list-style-type: none"> Turn the ignition switch to the OFF position. Disconnect the Accelerator Control and Adjuster connector. Disconnect all cables from the Accelerator Control and Adjuster. Rotate Adjuster by hand fully, then release and allow to return to the stop. Repeat this procedure three times. Zero the leads on the <i>J 39200</i> DMM. Using <i>J 39200</i> DMM, measure the resistance between the Accelerator Control and Adjuster connector terminals A and B. <p>Is the resistance within the range specified in the value(s) column?</p>	0.5–10 Ω	Go to Step 4	Go to Step 3
3	<p>Replace the Accelerator Control and Adjuster.</p> <p>Is the repair complete?</p>	—	Go to Diagnostic System Check	—
4	<ol style="list-style-type: none"> Disconnect the ASM harness connector. Using <i>J 39200</i> DMM measure the resistance between the ASM harness connector terminals 22 and 28. <p>Is the resistance within the range specified in the value(s) column?</p>	OL (infinite)	Go to Step 6	Go to Step 5
5	<p>Repair CKT 580 for a short to ground.</p> <p>Is the repair complete?</p>	—	Go to Diagnostic System Check	—
6	<p>Using <i>J 39200</i> DMM measure the resistance between the ASM harness connector terminals 26 and 28.</p> <p>Is the resistance within the range specified in the value(s) column?</p>	OL (infinite)	Go to Step 8	Go to Step 7
7	<p>Repair CKT 561 for a short to ground.</p> <p>Is the repair complete?</p>	—	Go to Diagnostic System Check	—
8	<p>Using the <i>J 39200</i> DMM, measure the resistance between the ASM harness connector terminal 22 and the Accelerator Adjuster harness connector terminal A.</p> <p>Is the resistance within the range specified in the value(s) column?</p>	0–5 Ω	Go to Step 10	Go to Step 9
9	<p>Repair CKT 560 for an open.</p> <p>Is the repair complete?</p>	—	Go to Diagnostic System Check	—
10	<p>Using the <i>J 39200</i> DMM, measure the resistance between the ASM harness connector terminal 49 and the Accelerator Adjuster harness connector terminal A.</p> <p>Is the resistance within the range specified in the value(s) column?</p>	0–5 Ω	Go to Step 11	Go to Step 9
11	<p>Using the <i>J 39200</i> DMM, measure the resistance between the ASM harness connector terminal 26 and the Accelerator Adjuster harness connector terminal B.</p> <p>Is the resistance within the range specified in the value(s) column?</p>	0–5 Ω	Go to Step 13	Go to Step 12

Step	Action	Value(s)	Yes	No
12	Repair CKT 561 for an open. Is the repair complete?	—	Go to <i>Diagnostic System Check</i>	—
13	Using the <i>J 39200</i> DMM, measure the resistance between the ASM harness connector terminal 53 and the Accelerator Adjuster harness connector terminal B. Is the resistance within the range specified in the value(s) column?	0–5Ω	Go to Step 14	Go to Step 12
14	1. Turn the ignition switch to the RUN position, engine off. 2. Using the <i>J 39200</i> DMM, measure the voltage at the ASM harness connector terminal 22. Is the voltage within the range specified in the value(s) column?	Above 1V	Go to Step 15	Go to Step 16
15	Repair CKT 560 for a short to voltage. Is the repair complete?	—	Go to <i>Diagnostic System Check</i>	—
16	Using the <i>J 39200</i> DMM, measure the voltage at the ASM harness connector terminal 26. Is the voltage within the range specified in the value(s) column?	Above 1V	Go to Step 17	Go to Step 18
17	Repair CKT 561 for a short to voltage. Is the repair complete?	—	Go to <i>Diagnostic System Check</i>	—
18	Replace the ASM. Is the replacement complete?	—	Go to <i>Diagnostic System Check</i>	—

Part 2 Of 2

CIRCUIT DESCRIPTION

Identifies an adjuster assembly motor circuit that is shorted to ground, shorted to voltage, or an open circuit. This malfunction will not allow the adjuster assembly motor to be controlled at the commanded current rate or will cause the driver circuit to allow current directly to ground.

CONDITIONS FOR SETTING THE DTC

DTC C0181 can set anytime the ignition switch is in the RUN position and the EBTCM detects an open, short to ground, or a short to voltage.

ACTION TAKEN WHEN THE DTC SETS

- A malfunction Diagnostic Trouble Code (DTC) stores
- The TCS disables
- The amber Traction Control System (TCS) indicator turns on

CONDITIONS FOR CLEARING THE DTC

- ^ The condition responsible for setting the DTC no longer exists and the scan tool Clear DTCs function is used.
- ^ 100 ignition cycles pass with no DTC(s) detected.

DIAGNOSTIC AIDS

- ^ Thoroughly inspect any circuitry that may be causing the complaint for the following conditions:
 - Backed out terminals
 - Improper mating
 - Broken locks
 - Improperly formed or damaged terminals
 - Poor terminal-to-wiring connections
 - Physical damage to the wiring harness
- ^ The following conditions may cause an intermittent malfunction:
 - A poor connection
 - Rubbed-through wire insulation
 - A broken wire inside the insulation
- ^ If an intermittent malfunction exists refer to "Troubleshooting Procedures" in **Diagrams**.

TEST DESCRIPTION

The number(s) below refer to the step number(s) on the diagnostic table.

- 4. This step checks for a short to ground.
- 8. This step checks for an open.
- 14. This step checks for a short to voltage.