

# Your Ultimate Source for OEM Repair Manuals

FactoryManuals.net is a great resource for anyone who wants to save money on repairs by doing their own work. The manuals provide detailed instructions and diagrams that make it easy to understand how to fix a vehicle.

## **1997 CHEVROLET Tahoe 5 doors OEM Service and Repair Workshop Manual**

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4. Verify the test lamp turns ON and OFF when commanding the Backup Lamps ON and OFF with a scan tool.

- **If the test lamp is always OFF**

1. Ignition OFF, disconnect the X7 harness connector at the K9 Body Control Module.

2. Test for infinite resistance between the control circuit and ground.

- If less than infinite resistance, repair the short to ground on the circuit.
- If infinite resistance

3. Test for less than 2  $\Omega$  in the control circuit end to end.

- If 2  $\Omega$  or greater, repair the open/high resistance in the circuit.
- If less than 2  $\Omega$ , replace the K9 Body Control Module.

- **If the test lamp is always ON**

1. Ignition OFF, disconnect the X7 harness connector at the K9 Body Control Module, ignition ON.

2. Test for less than 1 V between the control circuit terminal and ground.

- If 1 V or greater, repair the short to voltage on the circuit.
- If less than 1 V, replace the K9 Body Control Module.

- **If the test lamp turns ON and OFF**

5. Test or replace the E42 Tail Lamp Assembly.

## Repair Instructions

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

- [Rear Body Structure Stop Lamp Replacement](#)
- [Control Module References](#) for BCM replacement, programming, and setup

<b>DTC C0040 02</b>	Right Front Wheel Speed Sensor Circuit Short to Ground
<b>DTC C0040 04</b>	Right Front Wheel Speed Sensor Circuit Open
<b>DTC C0040 06</b>	Right Front Wheel Speed Sensor Circuit Low Voltage/Open
<b>DTC C0040 1B</b>	Right Front Wheel Speed Sensor Circuit Signal Cross Coupled
<b>DTC C0040 3A</b>	Right Front Wheel Speed Sensor Circuit Incorrect Component Installed
<b>DTC C0040 5A</b>	Right Front Wheel Speed Sensor Circuit Not Plausible
<b>DTC C0045 00</b>	Left Rear Wheel Speed Sensor Circuit Malfunction
<b>DTC C0045 01</b>	Left Rear Wheel Speed Sensor Circuit Short to Battery
<b>DTC C0045 02</b>	Left Rear Wheel Speed Sensor Circuit Short to Ground
<b>DTC C0045 04</b>	Left Rear Wheel Speed Sensor Circuit Open
<b>DTC C0045 06</b>	Left Rear Wheel Speed Sensor Circuit Low Voltage/Open
<b>DTC C0045 1B</b>	Left Rear Wheel Speed Sensor Circuit Signal Cross Coupled
<b>DTC C0045 3A</b>	Left Rear Wheel Speed Sensor Circuit Incorrect Component Installed
<b>DTC C0045 5A</b>	Left Rear Wheel Speed Sensor Circuit Not Plausible
<b>DTC C0050 00</b>	Right Rear Wheel Speed Sensor Circuit Malfunction
<b>DTC C0050 01</b>	Right Rear Wheel Speed Sensor Circuit Short to Battery
<b>DTC C0050 02</b>	Right Rear Wheel Speed Sensor Circuit Short to Ground
<b>DTC C0050 04</b>	Right Rear Wheel Speed Sensor Circuit Open
<b>DTC C0050 06</b>	Right Rear Wheel Speed Sensor Circuit Low Voltage/Open
<b>DTC C0050 1B</b>	Right Rear Wheel Speed Sensor Circuit Signal Cross Coupled
<b>DTC C0050 3A</b>	Right Rear Wheel Speed Sensor Circuit Incorrect Component Installed

Component	Condition	DTC Symptom Byte
	<ul style="list-style-type: none"> <li>Loose or improperly mounted sensor</li> <li>Air gap between the wheel speed sensor and the encoder ring too large</li> <li>Water intrusion in the wiring harness</li> </ul>	

### Circuit/System Description

Each wheel speed sensor receives ignition voltage through the signal high circuit from the electronic brake control module. Wheel speeds are detected by active wheel speed sensors and encoder rings. The magnetic encoder rings consists of multiple north and south pole pairs surrounding the outer circumference. When the encoder ring rotates and passes by the wheel speed sensor; it generates a sign wave in the wheel speed sensor. The sensor converts the signal to a digital square wave; the square wave values switch between 7mA (Low) and 14mA (High) DC current. As the wheel spins, the module uses the frequency of the square wave signal to calculate the wheel speed.

### Conditions for Running the DTC

**C0035 00, C0040 00, C0045 00, C0050 00 — C0035 04, C0040 04, C0045 04, or C0050 04**

Ignition ON

**C0035 02, C0040 02, C0045 02, or C0050 02 — C0035 06, C0040 06, C0045 06, or C0050 06**

Ignition ON

**C0035 1B, C0040 1B, C0045 1B, or C0050 1B**

Drive the vehicle on a winding or zigzag road at speeds under 30 km/h (18.6 MPH), then accelerate up to 70 km/h (43.5 MPH).

**C0035 3A, C0040 3A, C0045 3A, or C0050 3A**

Vehicle speed is greater than 16 km/h (10 MPH).

**C0035 5A, C0040 5A, C0045 5A, or C0050 5A**

Vehicle speed is greater than 60 km/h (37 MPH).

### Conditions for Setting the DTC

**C0035 00, C0040 00, C0045 00, C0050 00, or C0035 04, C0040 04, C0045 04, or C0050 04**

## Conditions for Clearing the DTC

- When the condition for setting the DTC is no longer present.
- The history DTC will clear after 40 consecutive fault-free ignition cycles have occurred.

## Diagnostic Aids

- Do not use a magnet to clean the encoder ring.
- Inspect the wheel encoder ring for rust or corrosion.
- Inspect the wheel speed sensors and components for the correct parts.
- If two or more wheel speed sensors are inoperative, diagnose each wheel speed sensor individually.
- If symptom code 5A is set, refer to the Diagnostic Fault Information table for possible mechanical faults or conditions.
- If the customer comments that the ABS indicator is ON only during moist environmental conditions (rain, snow, vehicle wash, etc.), inspect the wheel speed sensor wiring for signs of water intrusion.

## Reference Information

### Schematic Reference

[Antilock Brake System Schematics](#)

### Connector End View Reference

[Component Connector End Views](#)

### Description and Operation

[ABS Description and Operation](#)

### Electrical Information Reference

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

### Scan Tool Reference

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