

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.

2007 CHEVROLET Avalanche SUT OEM Service and Repair Workshop Manual

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

Scan Tool Reference

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

Circuit/System Verification

1. Ignition ON.
2. Verify DTC B3122, B3123, or B3124 is not set.
 - **If any of the DTCs are set**
Refer to [Diagnostic Trouble Code \(DTC\) List - Vehicle](#).
 - **If none of the DTCs are set**
3. Refer to Circuit/System Testing.

Circuit/System Testing

1. Ignition OFF, disconnect the harness connector at the T10L Keyless Entry Antenna - Left Body, ignition ON.
2. Test for less than 1 V between the signal circuit terminal 1 and ground.
 - **If 1 V or greater**
 1. Ignition OFF, disconnect the harness connector at the K84 Keyless Entry Control Module, ignition ON.
 2. Test for less than 1 V between the signal circuit and ground.
 - If 1 V or greater, repair the short to voltage on the circuit.
 - If less than 1 V, replace the K84 Keyless Entry Control Module.
 - **If less than 1 V**

3. NOTE

When using the MIN MAX function, autorange on the DMM may not function properly. To ensure accurate test results, turn off autorange and manually set the DMM range to 000.0 V.

Install a DMM between the signal circuit terminal 1 and the low reference circuit terminal 2. Set the DMM to capture DC voltage using the MIN MAX function. Turn off autorange and manually set the DMM range to 000.0 V.

8. Lock the vehicle doors using the keyless entry transmitter. Activate the antenna by pressing the exterior door handle button.

9. Verify the MAX voltage captured by the DMM is greater than 1 V.

- **If 1 V or less**

- 1. Ignition OFF, disconnect the harness connector at the K84 Keyless Entry Control Module.

- 2. Test for infinite resistance between the low reference 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 Ω in the low reference circuit end to end.

- If 2 Ω or greater, repair the open/high resistance in the circuit.

- If less than 2 Ω , replace the K84 Keyless Entry Control Module.

- **If greater than 1 V**

10. Replace the T10L Keyless Entry Antenna - Left Body.

11. Lock the vehicle doors using the keyless entry transmitter. Activate the antenna by pressing the exterior door handle button.

12. Verify DTC B3119 is not set.

- **If DTC B3119 is set**

- Replace the K84 Keyless Entry Control Module.

- **If DTC B3119 is not set**

13. All OK.

Repair Instructions

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

- [Ignition Lock Key Transmitter Antenna Replacement - Left Side](#)

YOUR CURRENT VEHICLE

DTC B3120

DTC B3120

Diagnostic Instructions

- Perform the [Diagnostic System Check - Vehicle](#) prior to using this diagnostic procedure.
- Review [Strategy Based Diagnosis](#) for an overview of the diagnostic approach.
- [Diagnostic Procedure Instructions](#) provides an overview of each diagnostic category.

DTC Descriptors

DTC B3120	Keyless Entry Antenna 2
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For symptom byte information, refer to [Symptom Byte List](#).

Diagnostic Fault Information

Circuit	Short to Ground	Open/High Resistance	Short to Voltage	Signal Performance
Keyless Entry Antenna Signal – Passenger Door	B3120 02	B3120 05	B3120 05	—
Keyless Entry Antenna Low Reference – Passenger Door	B3120 02	B3120 05	B3120 05	—

Circuit/System Description

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

Circuit/System Verification

1. Ignition ON.
2. Verify that DTC B3122, B3123, or B3124 is not set.
 - **If any of the DTCs are set**
Refer to [Diagnostic Trouble Code \(DTC\) List - Vehicle](#).
 - **If none of the DTCs are set**
3. Refer to Circuit/System Testing.

Circuit/System Testing

1. Ignition OFF, disconnect the harness connector at the T10R Keyless Entry Antenna - Right Body, ignition ON.
2. Test for less than 1 V between the signal circuit terminal 1 and ground.
 - **If 1 V or greater**
 1. Ignition OFF, disconnect the harness connector at the K84 Keyless Entry Control Module, ignition ON.
 2. Test for less than 1 V between the signal circuit and ground.
 - If 1 V or greater, repair the short to voltage on the circuit.
 - If less than 1 V, replace the K84 Keyless Entry Control Module.
 - **If less than 1 V**

3. NOTE