

GENERIC · CHASSIS

C0564

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

C0564

ABS Control Module System Voltage Low

C0564 means the anti-lock brake system (ABS) control module has detected that its main power supply voltage has dropped below the normal operating threshold, typically under 10 volts. The module stores this code when the voltage at its power input falls outside the expected range during self-test or while the system is active, which can prevent the ABS from functioning correctly.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Chassis	Generic (all makes)	Medium	Intermediate	Brakes, steering and suspension

Symptoms you may notice

- The ABS warning light is illuminated on the dashboard, often with no other noticeable symptoms.
- The traction control or stability control warning light may also turn on if those systems share the same module.
- The ABS may be disabled, leading to longer stopping distances or wheel lockup during hard braking.
- Intermittent flickering of the ABS light, especially when electrical loads change or at low engine speeds.
- Other electrical gremlins such as dimming lights, slow cranking, or random warning lights due to low system voltage.

Common causes, most likely first

- A weak or failing battery that cannot maintain adequate voltage under load.
- A faulty alternator that is not charging the battery properly, leading to low system voltage.
- Corroded, loose, or damaged wiring and connectors at the ABS module power and ground circuits.
- A blown fuse or faulty relay in the ABS module's power supply circuit.
- High resistance in the ground circuit between the ABS module and the chassis.
- An internal fault in the ABS control module causing it to misread or draw excessive voltage.
- Voltage drops caused by other electrical accessories or a poor body ground connection.



How to diagnose and fix it

- 1 Perform a battery load test and check the charging system output to rule out a weak battery or alternator.
- 2 Inspect and clean the battery terminals and the ABS module ground connections for corrosion or looseness.
- 3 Check the ABS module fuses and relay, and verify power and ground at the module connector with a multimeter.
- 4 Perform a voltage drop test on the power and ground circuits to the ABS module while the circuit is loaded.
- 5 Inspect the wiring harness for chafing, corrosion, or loose pins at the ABS module connector.
- 6 If all external circuits test good, suspect an internal fault in the ABS control module and follow the manufacturer's diagnostic flow.
- 7 Clear the code and verify the repair by test-driving the vehicle and confirming the ABS self-test completes without resetting the code.

Voltage drops that fool ABS modules

- A battery that starts the engine fine can still drop below the ABS module's voltage threshold during cranking or under heavy electrical load, setting C0564 without any obvious starting problem.
- Corroded ground connections on the chassis or engine block are a frequent culprit because they add resistance that only shows up under the high current demand of the ABS pump motor.
- The code can be set by a momentary voltage dip caused by a failing alternator diode or a loose belt, even if the battery and charging system test normal at idle.
- Technicians often replace the ABS module prematurely when the real issue is a \$5 fuse or a chafed power wire that intermittently shorts to ground.
- Other modules on the same power circuit, such as the stability control or traction control, may store related voltage codes that point to a shared supply problem rather than an ABS-specific fault.

Can I keep driving with C0564?

You can usually drive the vehicle with C0564 stored, but the ABS may be disabled, so maintain extra stopping distance and avoid hard braking or slippery conditions. Have the charging system and wiring checked promptly, as a low-voltage condition can also affect other safety systems.

Tools that help

- Digital multimeter
- Battery load tester
- OBD-II scan tool with ABS capability
- Test light
- Wiring diagram for the ABS circuit



Reading C0564

- C** Chassis: brakes, steering and suspension.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 5** Brakes, steering and suspension.
- 64** The exact fault within that area.

Often seen with

C0561 ABS Disabled Warning Indicator Request · **C0562** Brake Pedal Position Sensor Supply Voltage Circuit/Open · **C0563** Calibration Mismatch · **P0562** System Voltage Low · **U0121** Lost Communication With Anti-Lock Brake System (ABS) Control

See it working

Watch the animated explainer [How ABS Works: Anti-Lock Brakes in X-Ray](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/c0564/>

