

GENERIC · BODY

B0831

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

B0831

Right Front Turn Signal Circuit

B0831 is a body control module code indicating a fault in the right front turn signal circuit, meaning the module has detected an open, short, or excessive resistance on the wire or bulb path for that lamp. The computer typically sets this code when the voltage or current on the right front turn signal output does not match what the module expects during its self-test or when the turn signal is commanded on.

SYSTEM

Body

CODE TYPE

Generic (all makes)

SEVERITY

Low

FIX DIFFICULTY

Intermediate

AREA

Airbags, seats, doors, lights and comfort systems

Symptoms you may notice

- Right front turn signal does not illuminate or flash at all
- Right front turn signal flashes faster than normal (hyperflash) or stays on constantly
- Turn signal indicator on the dash may flash rapidly or not at all for the right side
- Often no symptoms besides the warning light if the fault is intermittent
- Other right-side lighting functions (parking, side marker) may also be affected on shared circuits
- Bulb-out or lamp-out warning message displayed on the driver information center

Common causes, most likely first

- 1 Failed right front turn signal bulb (filament broken or LED assembly failed)
- 2 Corroded, loose, or damaged bulb socket or connector at the right front lamp
- 3 Open or shorted wire in the right front turn signal circuit (including chafed harness or broken ground)
- 4 Faulty body control module (BCM) or lighting control module output driver
- 5 Water intrusion into the right front lamp housing or connector causing corrosion
- 6 Aftermarket LED bulb or improper bulb replacement causing load mismatch
- 7 Blown fuse or relay supplying power to the right front turn signal circuit (where separately fused)



How to diagnose and fix it

- 1 Verify the right front turn signal bulb is correct type and fully seated; replace if filament is broken or LED is dark
- 2 Inspect the bulb socket and connector for corrosion, burning, or loose terminals; clean or repair as needed
- 3 Check the ground connection for the right front lamp assembly and repair any loose or corroded ground
- 4 Measure voltage and resistance on the right front turn signal circuit at the lamp connector while commanding the signal on with a scan tool
- 5 Inspect the wiring harness from the BCM to the right front lamp for chafing, pinches, or opens, especially near body seams and hinges
- 6 If the circuit tests good, substitute a known-good BCM or perform module output test to confirm BCM driver failure
- 7 Clear the code and retest the turn signal operation to confirm the repair

Why the right front turn signal code misleads

- A common misdiagnosis is replacing the BCM when the real fault is a corroded bulb socket or a chafed wire behind the right front fender liner.
- Aftermarket LED turn signal bulbs often draw too little current, causing the BCM to set B0831 even though the lamp visibly works.
- The BCM may set B0831 intermittently from a loose ground shared with the right front parking lamp, so always check grounds before condemning the module.
- Some vehicles use a smart junction box or lighting control module instead of a traditional BCM, but the diagnostic path for the right front turn signal circuit remains the same.
- B0831 can be stored alongside communication codes if the BCM is losing power or ground, so check for other low-voltage or network codes before chasing the turn signal circuit.

Can I keep driving with B0831?

The vehicle remains safe to drive because the right front turn signal is a convenience and visibility item, but you should use hand signals when turning right until repaired and avoid driving at night or in low visibility where the missing signal reduces safety.

Tools that help

- OBD-II scan tool with body control module capability
- Digital multimeter
- Test light
- Trim removal tools
- Wiring diagram for the right front turn signal circuit



Reading B0831

- B** Body: airbags, seats, doors, lights and comfort systems.
- 0** Generic (SAE) code: it means the same thing on every OBD-II vehicle.
- 8** Airbags, seats, doors, lights and comfort systems.
- 31** The exact fault within that area.

Often seen with

B0830 Left Front Turn Signal Circuit

See it working

Watch the animated explainer [Disc Brake Trainer: How Car Brakes Stop a Wheel](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/b0831/>

