

GM · POWERTRAIN

P1366

OBD-II DIAGNOSTIC TROUBLE CODE (DTC)

P1366 · GM

IC Cylinder 6 Not Toggling After Enable

P1366 on GM vehicles means the powertrain control module (PCM) has commanded the ignition coil for cylinder 6 to fire, but the coil's feedback circuit is not toggling between high and low voltage as expected. The PCM detects this lack of switching after the enable signal is sent, indicating a fault in the coil, its wiring, or the feedback circuit itself.

SYSTEM	CODE TYPE	SEVERITY	FIX DIFFICULTY	AREA
Powertrain	GM specific	Medium	Intermediate	Ignition system and misfire

Symptoms you may notice

- Check engine light (malfunction indicator lamp) illuminated
- Engine misfire or rough running, especially under load
- Noticeable loss of power or hesitation during acceleration
- Shaking or vibration from the engine bay
- Often no symptoms besides the warning light, especially if the misfire is subtle

Common causes, most likely first

- Faulty ignition coil for cylinder 6 (most common)
- Damaged or corroded wiring or connector at the coil
- Open or shorted feedback circuit between the coil and PCM
- PCM driver circuit failure (rare but possible)
- Poor ground connection for the ignition coil
- Aftermarket or incorrect coil installed that does not provide proper feedback

How to diagnose and fix it

- Perform a visual inspection of the cylinder 6 coil, connector, and wiring for damage or corrosion
- Swap the cylinder 6 ignition coil with a known-good coil from another cylinder and see if the code moves
- Check for spark at cylinder 6 using a spark tester or by swapping coils
- Use a multimeter to check continuity and resistance of the feedback circuit between the coil and PCM
- Inspect and clean the coil ground connection; verify ground integrity
- If the coil is faulty, replace it with an OEM-quality part
- If wiring or PCM is faulty, repair wiring or replace PCM as needed



What the feedback circuit is telling you

- The 'IC' in the definition stands for Ignition Coil, and the feedback signal is a small current that toggles as the coil fires; a coil can still spark while failing to toggle, leading to a code without a noticeable misfire.
- A common misdiagnosis is replacing the coil when the real problem is a chafed wire in the harness near the coil or a loose ground, so always check the circuit before condemning the coil.
- On some GM engines, the ignition coil feedback circuit is shared with other cylinders, so a fault in one coil can affect the feedback of another; check for codes for other cylinders as well.
- Aftermarket coils sometimes lack the proper feedback circuitry, causing P1366 even though the engine runs fine; always use OEM or equivalent coils.
- The PCM may set P1366 only after the engine has run for a certain time and reached operating temperature, so intermittent faults can be missed during a quick scan.

Can I keep driving with P1366?

You can usually drive the vehicle with P1366, but if you notice a misfire or rough running, avoid heavy acceleration and have it diagnosed soon to prevent damage to the catalytic converter from unburned fuel.

Tools that help

- OBD-II scanner
- Digital multimeter
- Spark tester
- Basic hand tools (socket set, screwdrivers)
- Wiring diagram for the specific GM vehicle

Reading P1366

P	Powertrain: engine, transmission and emissions.
1	Manufacturer-specific code (GM): its meaning depends on the make.
3	Ignition system and misfire.
66	The exact fault within that area.

Often seen with

P1365 Cylinder 4 Ignition Circuit Short To B+ · **P1367** Cylinder 5 Ignition Circuit Open · **P1367** TDC2 Sensor No Signal · **P1365** Ignition Coil Secondary Circuit · **P1365** Ignition Coil Cylinder 5 No Activation · **P1367** Ignition System Failure Group 1 · **P1367** TDC2 Sensor No Signal · **P1365** IC Cylinder 5 Not Toggling After Enable · **P1367** IC Cylinder 7 Not Toggling After Enable · **P1365** Ignition Coil Secondary Circuit Failure · **P1365** IC Cylinder 5 Not Toggling After Enable · **P1367** IC Cylinder 7 Not Toggling After Enable · **P1365** Misfire Cylinder 12 With Fuel Cut-off · **P0300** Random/Multiple Cylinder Misfire Detected · **P0306** Cylinder 6 Misfire Detected · **P0356** Ignition Coil 'F' Primary/Secondary Circuit



See it working

Watch the animated explainer [How a Refrigerator Works: The Cooling Cycle](#) on Auto Veteran to see the parts involved moving.

Full guide, related articles and animations: <https://www.autoveteran.tech/dtc-codes/gm-p1366/>

