SOFTWARE & TECH

2007 Hyundai Entourage Where Is Pcm Power Relay Control

PUBLISHED
November 25, 2026

REFERENCE
#1795583701426749

Introduction: Understanding the PCM Power Relay in Your 2007 Hyundai Entourage

The 2007 Hyundai Entourage is a reliable minivan that served many families well, but like any vehicle, it can develop electrical issues over time. One common point of confusion for owners and DIY mechanics alike is the location and function of the PCM power relay control. If you are experiencing starting problems, intermittent stalling, or electrical gremlins, the PCM power relay might be the culprit. But before you start digging into the engine bay or under the dashboard, it is essential to understand what this component does and exactly where it is located.

In this comprehensive guide, we will answer the pressing question: **2007 Hyundai Entourage where is PCM power relay control**located? We will cover everything from the relay's function to step-by-step location instructions, common symptoms of failure, diagnostic tips, and replacement guidance. By the end of this article, you will have the confidence to locate, test, and replace the PCM power relay in your Hyundai Entourage without unnecessary guesswork.

What Is the PCM Power Relay and Why Does It Matter?

The Powertrain Control Module (PCM) is the brain of your Entourage's engine management system. It controls fuel injection, ignition timing, transmission shifting, and numerous other critical functions. The PCM itself requires a steady and reliable source of electrical power to operate correctly. This is where the PCM power relay comes into play.

The PCM power relay is a electromechanical switch that delivers battery voltage to the PCM when the ignition key is turned to the ON or START position. Without this relay functioning properly, the PCM will not power up, and the engine will not start. Think of it as the gatekeeper that ensures your vehicle's main computer has the electricity it needs to run the engine.

The Role of the PCM Power Relay Control Circuit

The term "PCM power relay control" often refers to the control circuit that activates the relay itself. This circuit typically involves a signal from the ignition switch or the PCM itself that energizes the relay coil, causing the internal contacts to close and send power to the PCM. In the 2007 Hyundai Entourage, understanding this control circuit is key to diagnosing relay-related issues because a failure can occur in the relay, the wiring, or the control signal.

2007 Hyundai Entourage: Where Is PCM Power Relay Control Located?

2007 Hyundai Entourage PCM power relay control is not located inside the cabin or under the dashboard. Instead, it is housed within the engine compartment fuse box, which is also known as the junction box or power distribution box.

Step-by-Step Location Guide

Follow these steps to locate the PCM power relay in your 2007 Hyundai Entourage:

1. Open the hood and secure it with the prop rod. Make sure the engine is cool to the touch.
2. Look toward the driver's side of the engine bay. The main fuse and relay box is situated near the battery, mounted on the inner fender well.
3. Identify the black plastic cover of the engine compartment fuse box. It typically has a diagram or labeling on top.
4. Remove the cover by pressing the retaining clips or tabs. Set the cover aside where you can refer to the diagram.
5. Locate the PCM relay inside the fuse box. In the 2007 Hyundai Entourage, the PCM power relay is usually labeled as "PCM" or "ENGINE CONTROL" or sometimes "ECU." It is a standard 4-pin or 5-pin relay that looks like a small black or gray cube.
6. Check the underside of the fuse box cover for a diagram if the labeling is not clear. The relay position is often indicated by a number or abbreviation.

If you are still unsure, consult your owner's manual. The manual contains a detailed fuse and relay layout for the engine compartment fuse box, which will pinpoint the exact location of the PCM power relay.

Visual Identification Tips

The PCM relay is typically one of the larger relays in the fuse box. It may be positioned near other critical relays such as the main relay, fuel pump relay, or starter relay. In some configurations, the PCM relay is the same part as the main relay. If you see a relay with a wire gauge that is thicker than others, that is often the PCM or main power relay.

Symptoms of a Failing PCM Power Relay in the 2007 Hyundai Entourage

Knowing the symptoms of a failing PCM power relay can save you hours of diagnostic time. If your Entourage exhibits any of the following issues, the PCM power relay should be one of the first components you inspect.

- Engine cranks but does not start: The starter motor turns the engine over, but the PCM never receives power, so there is no spark or fuel injection.
- No power at all when turning the key: In some cases, a completely failed relay can prevent the PCM from waking up, causing the dashboard lights to remain off or dim.
- Intermittent stalling or hesitation: A failing relay may lose contact intermittently, causing the engine to die unexpectedly while driving.
- Check Engine Light is on with PCM-related codes: Diagnostic trouble codes such as P0600 (serial communication link) or other PCM communication errors can point to power supply issues.
- Relay clicking sound but no start: You may hear the relay clicking when you turn the key, but if the contacts are corroded or burned, power may not flow through to the PCM.

How to Test the PCM Power Relay in Your 2007 Hyundai Entourage

Before replacing the relay, it is wise to test it to confirm it is the source of the problem. Here is how to perform a basic test using a multimeter.

Tools You Will Need

- Digital multimeter (preferably with continuity and voltage testing)
- Owner's manual or fuse box diagram
- Safety gloves and glasses

Testing Procedure

1. Remove the PCM relay from the fuse box carefully by pulling it straight up.
2. Set your multimeter to measure resistance (ohms).
3. Identify the relay pins. Most relays have four or five pins labeled 30, 85, 86, 87, and sometimes 87a. Pins 85 and 86 are the coil terminals. Pins 30 and 87 are the switch contacts.
4. Test the coil resistance: Place the multimeter probes on pins 85 and 86. You should see a resistance reading between 50 and 200 ohms. If the reading is infinite (open circuit), the coil is damaged and the relay is faulty.
5. Test the switch contacts: With no power applied, there should be no continuity between pins 30 and 87. Then, apply 12V from a battery or power source to pins 85 and 86. You should hear a click, and now continuity should exist between pins 30 and 87.
6. If the relay fails either test, replace it.

Additionally, Check the Control Circuit

If the relay tests good but the PCM still does not receive power, the control circuit may be at fault. Using the multimeter, check for 12V at the relay socket pin 86 (or the appropriate control pin as per your diagram) when the ignition is turned to ON. If voltage is present at that pin and the relay is good, the issue could be in the wiring between the relay and the PCM or a faulty PCM itself.

How to Replace the PCM Power Relay in a 2007 Hyundai Entourage

Replacing the PCM power relay is a straightforward process that most DIYers can handle in under 15 minutes.

Step 1: Safety First

Disconnect the negative battery terminal before working on any electrical components. This prevents accidental short circuits and protects the PCM from voltage spikes.

Step 2: Remove the Old Relay

Locate the PCM relay as described earlier. Pull the relay straight out of its socket with a firm, steady motion. Avoid wiggling it excessively as this can damage the socket terminals.

Step 3: Install the New Relay

Align the new relay with the socket. Most relays are polarized and will only fit one way, though the shape is usually symmetrical. Push the relay firmly into place until it clicks or is fully seated.

Step 4: Reconnect the Battery

Reattach the negative terminal and tighten it securely.

Step 5: Test the System

Turn the ignition key to the ON position. The dashboard lights should illuminate normally. Attempt to start the engine. If the relay was the issue, the engine should start and run smoothly.

Where to Buy a Replacement PCM Power Relay

You can purchase a high-quality replacement PCM power relay for your 2007 Hyundai Entourage from several sources.

- Hyundai dealership: Genuine OEM parts are guaranteed to fit and function correctly, but they may be more expensive.
- Auto parts stores: Retailers like AutoZone, O'Reilly Auto Parts, and Advance Auto Parts carry relay options. Provide them with your vehicle make, model, and year to get the correct part.
- Online retailers: Amazon, eBay, and parts-specific websites like RockAuto offer competitive pricing.

Ensure the relay meets the original specifications, typically a 12V, 30A or 40A relay with the correct pin configuration.

Common Mistakes to Avoid When Dealing with the PCM Power Relay

Even experienced DIYers can make errors when diagnosing or replacing this component. Here are pitfalls to avoid.

1. Replacing the relay without testing it first: The problem might be a blown fuse or a wiring issue, not the relay itself. Always test before buying a new part.
2. Using the wrong relay type: Relays can look identical but have different amperage ratings or pin configurations. Using an incorrect relay can cause immediate failure or damage to the PCM.
3. Ignoring the fuse: The PCM power relay circuit is usually protected by a fuse. Before replacing the relay, check the PCM or ECU fuse in the same fuse box. A blown fuse can mimic a bad relay.
4. Failing to check for corrosion: The relay socket pins can corrode over time, especially in humid environments. If the pins are corroded, clean them with electrical contact cleaner before installing a new relay.
5. Assuming the relay is the only cause: If a new relay does not solve the problem, the issue may be deeper, such as a faulty PCM, broken wire, or ignition switch problem. Do not stop at the relay if the symptoms persist.

Related Components: Fuses, Wiring, and the PCM Itself

The PCM power relay does not work in isolation. Several related components can affect its performance or mimic its failure.

The PCM Fuse

In the same engine compartment fuse box, there is often a dedicated fuse for the PCM. This fuse protects the PCM from power surges. If this fuse is blown, the PCM will not receive power even if the relay is working perfectly. Always inspect the fuse **before** replacing the relay.

Wiring Harness and Connectors

The wiring from the relay socket to the PCM can become damaged due to heat, vibration, or rodent activity. Inspect the harness for frayed wires, melted insulation, or loose connectors. A visual inspection can save you from replacing parts unnecessarily.

The PCM Itself

In rare cases, the PCM itself can fail internally. However, this is less common than relay or fuse failure. If you have verified power at the PCM connector but the engine still will not start, a professional diagnostic scan may be required to check for PCM internal faults.

Diagnostic Flowchart

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