

73 Powerstroke No Communication With Pcm

7.3 Powerstroke No Communication with PCM: A Diagnostic Odyssey

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Summary: This article explores the frustrating issue of "7.3 Powerstroke no communication with PCM," delving into common causes, diagnostic strategies, and real-world case studies. It provides a comprehensive guide for both professional mechanics and DIY enthusiasts tackling this complex problem. The article emphasizes systematic troubleshooting, highlighting the importance of checking wiring, connectors, and utilizing diagnostic tools effectively.

Understanding the 7.3 Powerstroke No Communication with PCM Problem

The dreaded "7.3 Powerstroke no communication with PCM" error can leave even seasoned mechanics scratching their heads. The Power Stroke 7.3L, while a robust engine, is susceptible to communication issues between the Powertrain Control Module (PCM) and other vehicle systems. This lack of communication essentially renders the engine inoperable, preventing it from starting and displaying a wide array of potentially misleading symptoms.

Case Study 1: The Intermittent Glitch

One of my early encounters with a "7.3 Powerstroke no communication with PCM" involved a 1999 F-250. The owner reported intermittent starting issues. Sometimes the truck would fire right up, other times, complete silence. Initial scans revealed nothing conclusive. The problem, however, wasn't a faulty PCM. After hours of painstaking work tracing the wiring harness, I discovered a corroded connection at the CKP (Crankshaft Position) sensor connector. A simple cleaning and re-seating of the connector resolved the issue. This highlights how seemingly minor problems can lead

to a "7.3 Powerstroke no communication with PCM" diagnosis.

Case Study 2: The Burnt-Out Relay

Another memorable case involved a 2003 Ford Excursion. This time, the "7.3 Powerstroke no communication with PCM" error was persistent. Initial diagnostics pointed towards a potential PCM failure, a costly repair. However, after a thorough examination of the vehicle's power distribution system, I discovered a burnt-out relay responsible for supplying power to the PCM. Replacing the relay—a relatively inexpensive fix—restored communication and brought the Excursion back to life. This underscores the importance of investigating all power supply components when dealing with a "7.3 Powerstroke no communication with PCM" issue.

Case Study 3: The Damaged Wiring Harness

Perhaps the most challenging case involved a heavily modified 2001 F-350. The owner had undertaken extensive modifications, including a custom exhaust and aftermarket gauges. The truck displayed a persistent "7.3 Powerstroke no communication with PCM" error. After eliminating other possibilities, a meticulous inspection of the entire wiring harness revealed damage caused by the exhaust system's proximity to the harness. Re-routing the harness and addressing the damaged sections finally solved the communication problem. This serves as a warning against improper modifications and the importance of carefully considering wiring routes during upgrades.

Systematic Troubleshooting for 7.3 Powerstroke No Communication with PCM

Effective troubleshooting requires a systematic approach:

1. **Visual Inspection:** Begin with a thorough visual inspection of all wiring harnesses, connectors, and components associated with the PCM. Look for any signs of damage, corrosion, or loose connections. Pay close attention to the data link connector (DLC) used for OBD-II communication.
2. **Power and Ground Checks:** Verify that the PCM is receiving adequate power and ground. Use a multimeter to check voltage and continuity. A faulty ground can disrupt communication.
3. **Diagnostic Trouble Codes (DTCs):** Use an OBD-II scanner capable of reading advanced data to retrieve DTCs. While a "7.3 Powerstroke no communication with PCM" may not generate a specific code, related codes (e.g., those pointing to sensor malfunctions) can provide valuable clues.
4. **Sensor Checks:** Check the operation of various sensors crucial for engine management: Crankshaft Position Sensor (CKP), Camshaft Position Sensor (CMP), and others. Faulty sensors can prevent proper communication with the PCM.

5. **Wiring Harness Integrity:** If visual inspection or DTCs suggest wiring problems, carefully trace the wiring harness from the PCM to all connected components. Use a wiring diagram to ensure accurate tracing. A damaged wire or connector can completely disrupt communication.

6. **PCM Testing:** If all else fails, the PCM itself may be faulty. However, PCM testing requires specialized equipment and expertise. It's often advisable to consult a qualified technician for PCM diagnostics and replacement.

Tools and Equipment

Successfully tackling a "7.3 Powerstroke no communication with PCM" requires the right tools:

OBD-II Scanner: A high-quality scanner capable of reading advanced data and live data streams is essential.

Multimeter: A digital multimeter is critical for checking voltage, continuity, and resistance in circuits.

Wiring Diagrams: Accurate wiring diagrams are invaluable for tracing circuits and identifying potential problems.

Professional-Grade Scan Tool: Access to a professional-grade scan tool can provide deeper diagnostic capabilities, crucial in pinpointing elusive issues.

Conclusion

Addressing a "7.3 Powerstroke no communication with PCM" issue requires patience, methodical troubleshooting, and a thorough understanding of the vehicle's electrical system. While the problem can seem daunting, a systematic approach, combined with the right tools and expertise, usually leads to a successful resolution. Remember, safety is paramount. If unsure about any step, consult a qualified automotive technician.

FAQs

1. Can a bad battery cause a 7.3 Powerstroke no communication with PCM? Yes, a low or failing battery can prevent the PCM from receiving sufficient power, leading to communication issues.

2. How much does it cost to replace a 7.3 Powerstroke PCM? The cost varies depending on the source (new, remanufactured), labor costs, and any additional repairs needed.

3. Can I program a used 7.3 Powerstroke PCM myself? Programming a used PCM generally requires specialized equipment and software, best left to professionals.

4. What are the common symptoms of a bad PCM in a 7.3 Powerstroke? Symptoms can vary greatly

but often include no-start conditions, rough running, misfires, and various warning lights on the dashboard.

5. Can I test the 7.3 Powerstroke PCM myself? While some basic checks can be performed, comprehensive PCM testing often requires specialized equipment.

6. How can I prevent future 7.3 Powerstroke no communication with PCM problems? Regular maintenance, including inspecting wiring harnesses and connectors, can help prevent these problems.

7. Is it possible to repair a damaged 7.3 Powerstroke PCM? In some cases, yes. However, this typically requires specialized skills and equipment.

8. What are the signs of a failing 7.3 Powerstroke PCM? Intermittent starting issues, stalling, erratic engine behavior, and a complete lack of communication with diagnostic tools are key indicators.

9. Can a blown fuse cause a 7.3 Powerstroke no communication with PCM? Absolutely. A blown fuse in the PCM's power circuit will prevent communication.

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Saskatchewan's most prominent stonemasons. The balance of the book is made up of stories of the buildings farmhouses, homes in urban communities, places of worship, public buildings and ruins. Margaret Hryniuk uses her years of experience in journalism to present factual yet fascinating accounts of the buildings and what is known of the people who put them there. Larry Easton's spectacular photographs bring these beautiful stone buildings to life, and Frank Korvemaker examines the dimensions and differences of the fieldstone that inhabits the Saskatchewan landscape.

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(DATC) Dual Automatic Temperature Control Climate Control ...

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power train control module (pcm) drive module (idm) high pressure oil supply pump... _ injection pressure regulator ('pr) injector stages of electronic control 'pr valve exhaust back-pressure ...

2022 FORD POWERSTROKE GDP TUNING INSTRUCTIONS W/ ...

h. Connect the positive and negative battery clips from the PCM tuning harness to your battery and connect your GDP Commander to your laptop with the USB cable, then plug the harness ...

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PCM Power R ela KEYPWR Type 4 G round FP Relay VPWR Inertia S witch A/C Clutch (-) A/C Clutch (+) V Power 10 FICM Ground FICM Main Pwr 12 FICMLogic Pwr Key Power EOP ...

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2004 Ford Pickup F250 Super Duty - Ford Powerstroke Diesel ...

In-Line Fuse No. 1 At right side of engine compartment. Component Location ABS Control Module At left side of engine compartment. See Fig. 25. ABS Control Module (7.3L) At left side of ...

Check List - ALLDATA

quality fuel pressure gauge with a "bleed-off" valve to test pressure and volume. If no volume specification is available, use 7 ounces of fuel in 10 seconds with the engine idling as a general ...

AF: Glow Plug System Introduction - Ford Powerstroke Diesel ...

9 Diagnostic Communication (Diagnostic Communication) 8 GPE (Glow Plug Enable) Glow Plug Bus Bar Connector Bank 1 Pin Circuit 4 Glow Plug Number 7 3 Glow Plug Number 5 2 Glow ...

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Ford Powerstroke 03-07 6.0 Diagnostic Troubleshooting

PCM to shut down. No Start. Several parameters are necessary for starting, not including glow plug operation and good compression. Perform the following steps to diagnose a "No Start" ...

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C1388C (X3) Connector: Power, Ground, Relay Control and ...

Jun 5, 2004 · The FICM drives the fuel injector solenoids based on fuel and timing commands (via *CAN2 link) from the PCM. It uses engine speed and position signals (*CKPO, *CMPO) to ...

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Satellite radio information 73 Navigation system 76 SYNC 76 Climate Controls 77 Manual heating and air conditioning 77 Dual electronic automatic temperature control 80 Rear window ...

Connector: Service Pigtail C1232B 12A650 - The Diesel Stop

Mar 10, 2018 · POWERTRAIN CONTROL MODULE (PCM) Color BK Harness 12A581 Base Part # 12A650 Service Pigtail Not Available Pin Circuit Gauge Circuit Function Qualifier 1 LE111 (VT ...

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CP9185 CP9190 Elite AutoScanner® Elite AutoScanner® Pro P/N 0002-001-2933

POWERTRAIN CONTROL SYSTEM ELECTRONICS ...

0107 * BARO Barometric press sensor circuit low input Internal BARO failed (PCM) 0108 * BARO Barometric press sensor circuit high input Internal BARO failed (PCM) 0112 * IAT Intake air ...

FORD POWERSTROKE DIAGNOSTICS 1994-2003 - Oregon ...

FORD POWERSTROKE DIAGNOSTICS 1994-2003 . This guide is not a substitute for the proper diagnostic manuals and a ... Pulse Width; 0 ms means no sync, 1994-1997 .42 ms indicates ...

No Start After Replacing Ford PCM - CARDONE

JDB2185 Rev 1 PT 70-78-0001 Application: Problem: Cause: Solution: Note: 1996 and later Ford vehicles with Passive Anti-Theft System (PATS). After replacing the PCM, the engine may ...

1997 73 Powerstroke Manual (Download Only)

1997 73 Powerstroke Manual Paul Dempsey. 1997 73 Powerstroke Manual: Ford Super Duty Pick-ups and Excursion Automotive Repair Manual Larry Warren, John Harold Haynes, 2002 ...

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7.3 PSD Crank No Start Troubleshooting Flowchart

7.3 PSD Crank No Start Troubleshooting Flowchart Yes No Does Tachometer move while cranking? Check for loose Chip or programmer No on PCM (if present) Good Bad Check Red ...

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a replacement PCM. Please refer to the Ford PATS Guide for detailed procedures. Replacing PCM only — A or D type PATS If only the PCM is being replaced on a PATS control function ...

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NO "fripminder Module NC Ignition Switch START Horn Relay CTRL Horn Switch VPWR VPWR VPWR Starter Relay CTRL To Horn DFCM Water In Fuel Probe INSTRUMENT CLUSTER ABS ...

SYSTEM WIRING DIAGRAMS 7.3L DI Turbo Diesel, Engine ...

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TECHNICAL SERVICE BULLETIN 6.7L - Illuminated MIL With DTCs P21DD, P204C, P21CD And/Or U02A2 - Built On Or Before 1-Aug-2018 19-2315 18 October 2019

OMB Control No.:€ 2127-0004 Part 573 Safety Recall Report ...

OMB Control No.:€ 2127-0004 Part 573 Safety Recall Report 24V-957 The information contained in this report was submitted pursuant to 49 CFR §573 ... The remedy PCM update will increase ...

W D } - Ford Powerstroke Diesel Forum

Forum discussion on PCM codes for Ford Powerstroke Diesel vehicles, including troubleshooting and technical insights.

Ford F350 Powerstroke Diesel Engine Diagram

I m posting the engine belt diagram for the L' '2006 Ford F250 6 0 Diesel Engine Diagram
WordPress com April 25th, 2018 - Several of 97 ford f350 diesel transmission diagram are ...

Printer Friendly View - Ford Powerstroke Diesel Forum

Jun 7, 2017 · Title: Printer Friendly View Author: Jon Rodenburg Created Date: 8/25/2022 10:43:51 PM

1997 73 Powerstroke Problems (book) - data.tenorshare.com

1997 73 Powerstroke Problems: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels enthralling the hearts of readers ...

2016-2019 F-53/F-59/F-450/F-550 Gen 4 Propane, 6.8L Ford V10

2016-2019 E-Series Gen 4 Propane, 6.8L Ford V10 Service and Diagnostic Manual 2 2016-2019 E-Series Gen 4 Propane, 6.8L Ford V10 Service and Diagnostic Manual Acronym or ...

SUBJECT: CHARGING CIRCUIT HARNESS FOR 2011-2016 ...

SUBJECT: CHARGING CIRCUIT HARNESS FOR 2011-2016 FORD 6.7L POWERSTROKE Ju

FITMENT: 2011-2016 Ford F-250/350 Pickup Trucks with 6.7L Powerstroke KIT P/N: FPE-HAR ...

M-6017-73A 7.3L Engine Control Pack Installation Instructions

NO PART OF THIS DOCUMENT MAY BE REPRODUCED WITHOUT PRIOR AGREEMENT AND WRITTEN PERMISSION OF ... starter system, PCM pinout) 22-25 . Techline 1-800-367 ...

7.3L Cam Position Sensor - Riffraff Diesel

This allows the PCM to determine the exact rotational position of the engine based on the firing order of 12734568. The CPS takes an input signal of 5 volts DC or better known as Vehicle ...

SSM 49363 - 2017-2019 F-Super Duty - Intermittent No ...

Dec 2, 2020 · SSM 49363 - 2017-2019 F-Super Duty - Intermittent No Crank With Or Without DTC P06E9 Some 2017-2019 F-Super Duty vehicles may experience an intermittent no crank ...

SUBJECT: CHARGING CIRCUIT HARNESS FOR 2017-2018 ...

SUBJECT: CHARGING CIRCUIT HARNESS FOR 2017-2018 FORD 6.7L POWERSTROKE March

FITMENT: 2017-2018 Ford F-250-550 with 6.7L Power Stroke KIT P/N: FPE-HAR-FMC ...