

## Trouble Code Identification Chart

*NOTE: Always ground the test lead/terminal AFTER the engine is running*

Trouble Code	Applicable System	Possible Problem Area
12	C-4, CCC	No reference pulses to the ECM. This is not stored in the memory and will only flash when the fault is present (not to be confused with the Code 12 discussed earlier).
13	C-4, CCC	Oxygen sensor circuit. The engine must run for at least 5 min. (18 min. on the C-4 equipped 231 V6) at part throttle before this code will show.
13 & 14 (at same time)	C-4	See code 43.
13 & 14 (at same time)	C-4	See code 43.
14	C-4, CCC	Shorted coolant sensor circuit. The engine must run 2–5 min. before this code will show.
15	C-4, CCC	Open coolant sensor circuit. The engine must run for at least 5 min. (18 min. on the C-4 equipped 231 V6) before this code will show.
21	C-4 C-4, CCC	Shorted wide open throttle switch and/or open closed-throttle switch circuit (when used). Throttle position sensor circuit. The engine must run for at least 10 sec. (25 sec.—CCC) below 800 rpm before this code will show.
21 & 22 (at same time)	C-4	Grounded wide open throttle switch circuit (231 V6).
22	C-4	Grounded closed throttle or wide open throttle switch circuit (231 V6).
23	C-4, CCC	Open or grounded carburetor mixture control (M/C) solenoid circuit.
24	CCC	Vehicle speed sensor circuit. The engine must run for at least 5 min, at normal speed before this code will show.
32	C-4, CCC	Barometric pressure sensor (BARO) circuit output is low.
32 & 55 (at same time)	C-4	Grounded +8V terminal or V(REF) terminal for BARO sensor, or a faulty ECM.
34	C-4 CCC	Manifold absolute pressure sensor (MAP) output is high. The engine must run for at least 10 sec. below 800 rpm before this code will show. Manifold absolute pressure sensor (MAP) circuit or vacuum sensor circuit. The engine must run for at least 5 min. below 800 rpm before this code will show.
35	CCC	Idle speed control circuit shorted. The engine must run for at least 2 sec. above ½ throttle before this code will show.
42	CCC	Electronic spark timing (EST) bypass circuit grounded.

# Ford Truck Diagnostic Codes

**Patrick Vollmar**



## **Ford Truck Diagnostic Codes:**

*How To Use Automotive Diagnostic Scanners* Tracy Martin, 2015-08-01 From hand held dedicated units to software that turns PCs and Palm Pilots into powerful diagnostic scanners auto enthusiasts today have a variety of methods available to make use of on board diagnostic systems And not only can they be used to diagnose operational faults they can be used as low budget data acquisition systems and dynamometers so you can maximize your vehicle's performance Beginning with why scanners are needed to work effectively on modern cars this book teaches you how to choose the right scanner for your application how to use the tool and what each code means *How To Use Automotive Diagnostic Scanners* is illustrated with photos and diagrams to help you understand OBD I and OBD II systems including CAN and the scanners that read the information they record Also included is a comprehensive list of codes and what they mean From catalytic converters and O2 sensors to emissions and automotive detective work this is the complete reference for keeping your vehicle EPA compliant and on the road

**Engine Code Manual** Chilton Automotive Books, The Nichols/Chilton, Chilton, 1995 The complete manual for understanding engine codes troubleshooting basic maintenance and more

*The Ultimate Troubleshooting Guide for Ford Rangers and Mazda B-Series Pick-Ups* Pasquale De Marco, 2025-08-12 The Ultimate Troubleshooting Guide for Ford Rangers and Mazda B Series Pick Ups is the ultimate troubleshooting guide for Ford Ranger and Mazda B Series pickups This comprehensive resource covers everything from basic maintenance to advanced diagnostics with clear concise instructions and detailed illustrations Whether you're a novice mechanic or a seasoned pro you'll find valuable information in *The Ultimate Troubleshooting Guide for Ford Rangers and Mazda B Series Pick Ups* The book is divided into ten chapters each of which covers a specific system or component of the Ford Ranger and Mazda B Series pickups The first chapter provides an overview of the Ford Ranger and Mazda B Series pickups including their history design and features This chapter also includes a buyer's guide to help you choose the right truck for your needs The next eight chapters cover specific systems and components of the Ford Ranger and Mazda B Series pickups Each chapter is divided into several sections each of which focuses on a specific topic For example the chapter on the engine includes sections on engine basics fuel systems ignition systems emissions controls and cooling systems The final chapter of *The Ultimate Troubleshooting Guide for Ford Rangers and Mazda B Series Pick Ups* provides troubleshooting tips and advice for dealing with common problems that can occur with Ford Ranger and Mazda B Series pickups This chapter also includes a section on emergency repairs such as flat tire changes and jump starting With its clear concise instructions and detailed illustrations *The Ultimate Troubleshooting Guide for Ford Rangers and Mazda B Series Pick Ups* is the perfect resource for anyone who wants to keep their Ford Ranger or Mazda B Series pickup running in top condition Whether you're a do it yourselfer or a professional mechanic you'll find valuable information in this book If you like this book write a review

[Shop Manual](#), 2000

**Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems** Owen C. Duffy, Gus Wright, 2015-07-13 Based on the 2014 National

Automotive Technicians Education Foundation NATEF Medium Heavy Truck Tasks Lists and ASE Certification Test Series for truck and bus specialists Fundamentals of Medium Heavy Duty Commercial Vehicle Systems is designed to address these and other international training standards The text offers comprehensive coverage of every NATEF task with clarity and precision in a concise format that ensures student comprehension and encourages critical thinking Fundamentals of Medium Heavy Duty Commercial Vehicle Systems describes safe and effective diagnostic repair and maintenance procedures for today s medium and heavy vehicle chassis systems including the most current relevant and practical coverage of Automated transmissions Braking system technology used in vehicle stability collision avoidance and new stopping distance standards Hybrid drive powertrains Advanced battery technologies On board vehicle networks and integrated chassis electr

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