

SERVICE CODE

SERVICE CODE DEFINITION

11 orc ►
12 r ►
13 r ►

System PASS
Cannot control rpm during Self-Test high rpm check
Cannot control rpm during Self-Test low rpm check

14 c ►
15 o ►
15 c ►

PIP circuit failure
ECA Read Only Memory (ROM) test failed
ECA Keep Alive Memory (KAM) test failed

18 r ►
18 c ►
19 o ►

SPOUT circuit open
Loss of IDM input to Processor/SPOUT circuit grounded
Failure in ECA internal voltage

21 or ►
22 orc ►
23 or ►

Engine Coolant Temperature (ECT) out of Self-Test range
Manifold Absolute Pressure (MAP) out of Self-Test range
Throttle Position (TP) out of Self-Test range

24 or ►
25 r ►
29 c ►

Air Charge Temperature (ACT) out of Self-Test range
Knock not sensed during Dynamic Response Test
Insufficient input from the Vehicle Speed Sensor (VSS)

31 orc ►
32 orc ►
33 rc ►

EGR Valve Position (EVP) circuit below minimum voltage
EVP voltage below closed limit
EGR valve opening not detected

34 orc ►
35 orc ►
41 r ►

EVP voltage is above closed limit
EVP circuit above maximum voltage
HEGO sensor circuit indicates system lean

41 c ►
42 r ►
44 r ►

No HEGO switch detected
HEGO sensor circuit indicates system rich
Thermactor air system inoperative

45 r ►
46 r ►
51 oc ►

Thermactor air upstream during Self-Test
Thermactor air not bypassed during Self-Test
ECT indicated - 40°F/circuit open

52 o ►
52 r ►
53 oc ►

Power Steering Pressure Switch (PSPS) circuit open
PSPS circuit did not change states
TP circuit above maximum voltage

54 oc ►
61 oc ►
63 oc ►

ACT indicated - 40°F/circuit open
ECT indicated 254°F/circuit grounded
TP circuit below minimum voltage

64 oc ►
67 o ►
72 r ►

ACT indicated 254°F/circuit grounded
Neutral Drive Switch (NDS) circuit open/A/C ON
Insufficient MAP change during Dynamic Response Test

73 r ►
77 r ►
81 o ►

Insufficient TP change during Dynamic Response Test
Operator Error (Dynamic Response/Cylinder Balance Tests)
Air Management 2 (AM2) circuit failure

82 o ►
84 o ►
87 oc ►

Air Management 1 (AM1) circuit failure
EGR Vacuum Regulator (EVR) circuit failure
Primary Fuel pump circuit failure

95 oc ►
96 oc ►
98 r ►

Fuel Pump circuit open - ECA to motor ground
Fuel Pump circuit open - battery to ECA
Hard fault present

NO CODES ►

Unable to initiate Self-Test or unable to output Self-Test codes

CODES NOT LISTED ►

Service codes displayed are not applicable to the vehicle being tested

KEY: o = Key On Engine Off (KOEO) r = Engine Running (ER) c = Continuous Memory

Ford Ranger Diagnostic Codes

Ying Liu

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

Ford Ranger Diagnostic Codes:

1993-94-95-96-1997 Ford Ranger 5R55E Transmission Repair Manual , This is the PDF service repair manual for the Ford Ranger 1993 1997 Transmission Transference 4x4 system The same manual auto shops and dealers reference to This is not your everyday off the shelf auto store manual This manual is guaranteed to be better than any auto store manual Detailed drawings Detail diagrams Detail step by step instructions Covers more than standard manuals Available as PDF no more damage manuals Chapters include Diagrams Transmission Transference Electrical 4R44E 5R55E Transmissions Automatic Manual 4wd 4x4 Gem Generic Module **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 [OBD-I & OBD-II](#) Greg Branish,2023-06-09 Onboard diagnostics OBD systems have been an integral part of vehicle design for decades as OBD II became mandatory in 1996 for all cars manufactured in the United States Almost every aspect of the diagnostics system evolved from emissions requirements that were placed on the automotive industry Manufacturers responded with increasing complexity in the electronic controls and reporting of errors Fortunately some commonization followed in the industry which made the job of a repair technician or do it yourself enthusiast slightly easier when working on these challenging systems Passing emissions testing has become critically important to manufacturers of high performance parts and installation shops Both the US

Environmental Protection Agency EPA and California Air Resources Board CARB have assessed massive fines for violations of the Clean Air Act based on information that is available from the vehicle's OBD system. Many states now require vehicles to pass an OBD check to renew the registration making proper operation even more important to consumers. OBD I OBD II A Complete Guide to Diagnosis Repair Emissions Compliance is an insider's guide to modern original equipment manufacturer OEM diagnostics systems. As a former diagnostics and performance calibration engineer, Greg Banish guides you through critical electronic control unit (ECU) functions that ultimately lead to why the check engine light on the dash is lit. Strategies are provided for how to begin looking for a solution when problems are detected. Listing every imaginable repair is impossible, but this book provides a solid foundation from which to work by explaining the electronic control unit (ECU)'s logic in plain English. Practical examples from the author's experience highlight important lessons that will save hours of frustration and confusion. In addition to repair tips, sound advice is given for those looking to modify their vehicles while maintaining the full functionality of the emissions and diagnostics systems. Modern diagnostics systems can be a blessing or a curse depending on your level of understanding. This book helps you harness the power of the diagnostics inside the ECU to improve the ability to find and make the right repair the first time. This book shows that by using commonly available electronic tools, the consumer has the power to access a wealth of information about his or her vehicle. It also helps those who are looking to improve performance do so without compromise to the environment or enforcement agencies. Whether you want to repair the vehicle yourself or simply want to possess an understanding of how these systems work while dealing with service professionals, this is the guide you need.

Automotive Engine Performance Nicholas Goodnight, Kirk VanGelder, 2019-02-20 Automotive Engine Performance published as part of the CDX Master Automotive Technician Series provides technicians in training with a detailed overview of modern engine technologies and diagnostic strategies. Taking a strategy-based diagnostic approach, it helps students master the skills needed to diagnose and resolve customer concerns correctly on the first attempt. Students will gain an understanding of current diagnostic tools and advanced performance systems as they prepare to service the engines of tomorrow. Popular Mechanics, 2003-01 Popular Mechanics inspires, instructs, and influences readers to help them master the modern world. Whether it's practical DIY home improvement tips, gadgets, and digital technology information on the newest cars or the latest breakthroughs in science, PM is the ultimate guide to our high-tech lifestyle. **Engine Code Manual** Chilton Automotive Books, The Nichols/Chilton, Chilton, 1995 The complete manual for understanding engine codes, troubleshooting, basic maintenance, and more. Popular Mechanics, 1998-03 Popular Mechanics inspires, instructs, and influences readers to help them master the modern world. Whether it's practical DIY home improvement tips, gadgets, and digital technology information on the newest cars or the latest breakthroughs in science, PM is the ultimate guide to our high-tech lifestyle. *Shop Manual*, 2000 *Searcher*, 2008

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