

DIAGNOSTIC CODES

HINT:

- If a malfunction is detected during the diagnostic code check, refer to the circuit indicated in the table, and turn to the corresponding page.
- Your readings may vary from the parameters listed in the table, depending on the instruments used.

EG

Code No.	Number of Blinks of Check Engine Warning Light	System	Check Engine** Warning Light		Diagnosis	Trouble Area	Memory**	See Page
			Normal Mode	Test Mode				
-	 P11401	Normal	-	-	No trouble code is recorded.	-	-	-
12	 P11606	RPM Signal	ON	N.A.	• No G1, G2 or NE signal is input to the ECU for 2 sec. or more after STA turns ON. • Open in G - circuit	• Open or short in NE, G circuit • Distributor • Open or short in STA circuit • ECU	○	EG-133
13	 P11607	RPM Signal	ON	ON	NE signal is not input to ECU for 0.25 sec. or more when engine speed is 1,000 rpm or more.	• Open or short in NE circuit • Distributor • ECU	○	-
14	 P11608	Ignition Signal	ON	N.A.	IG signal from Igniter is not input to ECU for 8 consecutive ignitions.	• Open or short in IG or IG/T circuit from Igniter to ECU • Igniter • ECU	○	EG-134
16	 P03603	Sub-CPU	ON	N.A.	Sub-CPU Malfunction	• ECU	×	-
21	 P11609	Oxygen Sensor Signal	ON	N.A.	Open or short in heater circuit of oxygen sensor for 0.5 sec. or more. (HT)	• Open or short in heater circuit of oxygen sensor • Oxygen sensor heater • ECU	○	EG-137
				ON	At normal driving speed (below 100 km/h (60 mph) and engine speed is above 1,500 rpm), amplitude of oxygen sensor signal (GSK1) is reduced to between 0.25 ~ 0.75 V continuously for 60 sec. or more. (G trip detection logic)	• Open or short in oxygen sensor circuit • Oxygen sensor • Open or short in vacuum sensor circuit • Vacuum sensor • ECU		
22	 P11610	Water Temp. Sensor Signal	ON	ON	Open or short in water temp. sensor circuit for 0.5 sec. or more. (THW)	• Open or short in water temp. sensor circuit • Water temp. sensor • ECU	○	EG-132
24	 P11611	Intake Air Temp. Sensor Signal (for air cleaner case)	ON	ON	Open or short in intake air temp. sensor circuit for 0.5 sec. or more. (THU)	• Open or short in intake air temp. sensor circuit • Intake air temp. sensor • ECU	○	EG-136
25	 P12562	Air/Fuel Ratio Lean Malfunction	ON	ON	Oxygen sensor output is less than 0.45 V for at least 90 sec. when oxygen sensor is warmed up (rising at 1,500 rpm, G2 trip detection logic)	• Engine ground bolt loose • Open in E1 circuit • Open in injector circuit • Fuel line pressure (injector blockage, etc.) • Open or short in oxygen sensor circuit • Oxygen sensor • Ignition system • Water temp. sensor • ECU	○	EG-137
31	 P11612	Vacuum Sensor Signal	ON	ON	Open or short detected continuously for 600 msec. or more in vacuum sensor sensor circuit. (PMA)	• Open or short in vacuum sensor circuit • Vacuum sensor • ECU	○	EG-128

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Automotive Computer Controlled Systems Alan Bonnick, 2007-08-15 *Automotive Computer Controlled Systems* explains the fundamental principles of engineering that lie behind the operation of vehicle electronic systems Having obtained this knowledge the reader will be able to make full use of the diagnostic equipment which is currently available The book builds on the concepts contained in *Vehicle Electronic Systems and Fault Diagnosis* and gives clear steps to fault diagnosis and subsequent repair of the vehicle s electronic systems The author discusses electronics only within the context of the vehicle systems under consideration and thus keeps theory to a minimum Allan Bonnick has written articles for several transport vehicle journals and carries out consultancy work for the Institute of Road Transport Engineers In addition he has had many years teaching experience and is ideally placed to write this informative guide

Vehicle Electronic Systems and Fault Diagnosis J. Jones, J. Burdett, J. N. Fawcett, 2013-10-18 This book gives a sufficient grounding in mechanics for engineers to tackle a significant range of problems encountered in the design and specification of simple structures and machines It also provides an excellent background for students wishing to progress to more advanced studies in three dimensional mechanics

Chilton's Toyota Trucks, 1970-88 Repair Manual Chilton Automotive Books, The Nichols/Chilton, Chilton, 1994 Covers all models of Pick Up Land Cruiser and 4Runner 2 and 4 wheel drive gasoline and diesel engines

Chilton's Import Car Repair Manual, 1986 , 1985 *Event Data Recorder (EDR) Interpretation* Christopher Armstrong, 2018-11-02 Collision Reconstruction Methodologies Volume 7B The last ten years have seen explosive growth in the technology available to the collision analyst changing the way reconstruction is practiced in fundamental ways The greatest technological advances for the crash reconstruction community have come in the realms of photogrammetry and digital media analysis The widespread use of scanning technology has facilitated the implementation of powerful new tools to digitize forensic data create 3D models and visualize and analyze crash vehicles and environments The introduction of unmanned aerial systems and standardization of crash data recorders to the crash reconstruction community have enhanced the ability of a crash analyst to visualize and model the components of a crash reconstruction Because of the technological changes occurring in the industry many SAE papers have been written to address the validation and use of new tools for collision reconstruction Collision Reconstruction Methodologies Volumes 1-12 bring together seminal SAE technical papers surrounding advancements in the crash reconstruction field Topics featured in the series include Night Vision Study and Photogrammetry Vehicle Event Data Recorders Motorcycle Heavy Vehicle Bicycle and Pedestrian Accident Reconstruction The goal is to provide the latest technologies and methodologies being introduced into collision reconstruction appealing to crash analysts consultants and safety engineers alike

Toyota Camry 1983-88 Chilton Book Company, 1989 You paid a lot for your car Let Chilton help you to maintain its value Complete chapter on owner maintenance Expanded index to help you find whatever you want FAST All charts up to date with every year of coverage Every subject completely covered in one place where you

can find it FAST 16 pages of color on fuel economy body repair maintenance and MUCH MORE 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 **Chilton's Toyota Corolla 1970-87 Repair Manual** Chilton Book Company, 1995 Total Car Care is the most complete step by step automotive repair manual you ll ever use All repair procedures are supported by detailed specifications exploded views and photographs Mastering CVT Transmission Mohammed Hamed Ahmed Soliman, Mastering CVT Transmissions is your complete guide to understanding maintaining and repairing modern continuously variable transmissions CVTs Written by Dr Mohammed Hamed Ahmed Soliman an international expert in Lean Maintenance reliability and automotive systems this book combines deep technical knowledge with real world experience What you ll find inside Clear explanations of how CVTs work compared with manual automatic

and dual clutch DCT systems Preventive predictive and corrective maintenance practices to extend transmission life Hands on procedures for fluid care filters diagnostics and full rebuilds Real case studies drawn from practical repair and teaching experience OBD based troubleshooting methods and failure prevention strategies Tables charts and appendices with essential specifications and capacities Why this book is different Dr Soliman not only studied CVTs academically but has rebuilt Nissan CVT units personally applying industrial best practices such as predictive maintenance infrared thermography vibration analysis oil condition monitoring and Lean principles His international career in manufacturing reliability engineering and automotive maintenance gives this book a unique blend of theory and practice Also by the author Dr Soliman has written several bestselling books in maintenance and reliability including Autonomous Car Maintenance Industrial Applications of Infrared Thermography Vibration Basics and Machine Reliability Simplified The Complete FMEA Handbook AI in Maintenance Reliability Machinery Oil Analysis Condition Monitoring Lean Maintenance Ultrasound Analysis for Condition Monitoring Maintenance Strategy Optimization Whether you are a driver mechanic or engineer this book equips you with the knowledge tools and confidence to master CVTs from everyday care to advanced diagnostics and rebuilds

Toyota Gas Pedals United States. Congress. House. Committee on Oversight and Government Reform,2010 **Engine Code Manual** Chilton Automotive Books,The Nichols/Chilton,Chilton,1995 The complete manual for understanding engine codes troubleshooting basic maintenance and more **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 **Toyota MR2 Performance HP1553** Terrell Heck,2009-11-03 A complete owner s guide for owners and enthusiasts of Toyota s MR2 one of the most successful mid engined sports cars ever built Includes History sales and model year details OEM Maintenance and Repairs Chassis Brake Engine Bolt On Modifications Racing Your MR2 Safety and staged combinations to build MR2s for any high performance use from mild street to autocrossing and road racing *A Practical Approach to Motor Vehicle Engineering and Maintenance* Allan Bonnick,Derek Newbold,2011-05-26 Fully updated and in line with latest specifications this textbook integrates vehicle maintenance procedures making it the indispensable first classroom and workshop text for all students of motor vehicle

engineering apprentices and keen amateurs Its clear logical approach excellent illustrations and step by step development of theory and practice make this an accessible text for students of all abilities With this book students have information that they can trust because it is written by an experienced practitioner and lecturer in this area This book will provide not only the information required to understand automotive engines but also background information that allows readers to put this information into context The book contains flowcharts diagnostic case studies detailed diagrams of how systems operate and overview descriptions of how systems work All this on top of step by step instructions and quick reference tables Readers won't get bored when working through this book with questions and answers that aid learning and revision included

Advanced Automotive Electricity and Electronics Michael Klyde, Kirk VanGelder, 2017-06-09 Advanced Automotive Electricity and Electronics published as part of the CDX Master Automotive Technician Series gives students with a basic understanding of automotive electrical the additional knowledge and experience they need to diagnose and fix complex electrical systems and circuits Focused on a strategy based diagnostics approach this book helps students master technical trouble shooting in order to address the problem correctly on the first attempt

Advanced Automobile Engine Performance James D. Halderman, Chase D. Mitchell, Jr., Corey W. Glassman, 1997-11 Based on the premise that simple problems should always be checked first this practical hands on book introduces the diagnosis and troubleshooting of automotive engine control systems

Auto Electricity and Electronics Technology James E. Duffy, 1995 This new edition is an up to date comprehensive book on the operation and repair of new computerized and conventional electrical systems in automobiles The book presents both the fundamental principles and advanced procedures for troubleshooting and repairing the complex interacting systems found on late model cars

Response by Toyota and NHTSA to Incidents of Sudden Unintended Acceleration United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Oversight and Investigations, 2012

Automotive Air Conditioning and Climate Control Systems Steven Daly, 2011-04-18 Automotive Air conditioning and Climate Control Systems is a complete text and reference on the theoretical practical and legislative aspects of vehicle climate control systems for automotive engineering students and service professionals It provides the reader with a thorough up to date knowledge of current A C systems refrigerants and the new possible replacement systems like CO2 and includes unrivalled coverage of electronic and electrical control Filling the gap in the automotive engineering and servicing market for students and those training on the job this book will help both newcomers and those with more experience of air conditioning systems maintenance engineering to keep up with the latest developments and legislation Detailed coverage of European and US vehicle HVAC systems Thorough explanation of current and future systems including CO2 Meets relevant C G IMI and HND vocational and professional qualifications IMI recommended reading material Includes practical cases studies and examples from design and manufacturing companies including Ford Vauxhall Toyota VW Visteon Sanden and others accompanied by over 300 detailed illustrations and photographs

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Table of Contents Toyota Ecu Error Codes

1. Understanding the eBook Toyota Ecu Error Codes
 - The Rise of Digital Reading Toyota Ecu Error Codes
 - Advantages of eBooks Over Traditional Books
2. Identifying Toyota Ecu Error Codes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Toyota Ecu Error Codes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Toyota Ecu Error Codes
 - Personalized Recommendations

- Toyota Ecu Error Codes User Reviews and Ratings
- Toyota Ecu Error Codes and Bestseller Lists
- 5. Accessing Toyota Ecu Error Codes Free and Paid eBooks
 - Toyota Ecu Error Codes Public Domain eBooks
 - Toyota Ecu Error Codes eBook Subscription Services
 - Toyota Ecu Error Codes Budget-Friendly Options
- 6. Navigating Toyota Ecu Error Codes eBook Formats
 - ePub, PDF, MOBI, and More
 - Toyota Ecu Error Codes Compatibility with Devices
 - Toyota Ecu Error Codes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Toyota Ecu Error Codes
 - Highlighting and Note-Taking Toyota Ecu Error Codes
 - Interactive Elements Toyota Ecu Error Codes
- 8. Staying Engaged with Toyota Ecu Error Codes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Toyota Ecu Error Codes
- 9. Balancing eBooks and Physical Books Toyota Ecu Error Codes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Toyota Ecu Error Codes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Toyota Ecu Error Codes
 - Setting Reading Goals Toyota Ecu Error Codes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Toyota Ecu Error Codes
 - Fact-Checking eBook Content of Toyota Ecu Error Codes

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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