# INSPECTION CHART FOR DIAGNOSIS CODES

Code No.	Diagnosis item	Reference page
11	Accelerator pedal position sensor (main) system	13C-8
12*	Boost pressure sensor system	13C-9
13	Barometric pressure sensor (ECU built-in) system	13C-10
14	Fuel temperature sensor system	13C-10
15	Engine coolant temperature sensor system	13C-11
16	Boost air temperature sensor system	13C-11
17	Vehicle speed sensor system	13C-12
18	Engine speed sensor (backup) system	13C-13
21	Engine speed sensor system	13C-14
23	Idle switch (accelerator pedal position sensor built-in) system	13C-15
25*	Timer piston position sensor system	13C-16
26*	Control sleeve position sensor system	13C-17
27	Accelerator pedal position sensor (sub) system	13C-18
41*	Main throttle solenoid valve system	13C-19
43	Tirning control valve system	13C-20
46	Injection correction ROM system	13C-21
48*	GE actuator (in the middle of control sleeve position sensor inoperative) system	13C-21
49*	Over boost (turbocharger waste gate malfunction)	13C-22
54	Immobilizer system	13C-22

# Caution

If the the above-mentioned diagnosis code number with the asterisks can be displayed along with another code number in parentheses simultaneously, check the other code number before replacing the engine-ECU.

12 (41, 49), 26 (48), 25 (43), 41 (12, 49), 48 (26), 49 (12, 41)

# **Engine Light Trouble Codes**

**Tracy Martin** 

#### **Engine Light Trouble Codes:**

Engine Code Manual Chilton Automotive Books, The Nichols/Chilton, Chilton, 1995 The complete manual for understanding engine codes troubleshooting basic maintenance and more Check Engine Light: 10 Tips To Not See That Light Again! Gavin J. Knox, 2022-11-02 In Check Engine Light 10 Tips To Not See That Light Again Gavin J Knox the founder of The Check Engine Light https thecheckenginelight com who is also an ASE Certified Master Automobile Technician and a holder of a PhD degree in Advanced Automotive Systems from the Massachusetts Institute of Technology MIT provides a concise easy to understand guide to keeping your car in top condition This book demystifies the common issues that trigger the check engine light and offers practical advice for regular car maintenance From understanding your car s fuel and electrical systems to mastering the intricacies of sensors emissions and cooling systems Knox covers it all The book also includes tips for both automatic and manual transmissions and insights into the ignition system Concluding with strategies for creating a personalized car maintenance routine this book is an invaluable resource for drivers looking to enhance their vehicle s longevity and avoid common pitfalls Popular Mechanics, 1982-08 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 **Popular Mechanics**, 1992-11 Popular Mechanics inspires instructs and influences readers to help tech lifestyle 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 Chilton's Guide to Emission Diagnosis, Tune-up and Vacuum Diagrams, 1984-87 [i.e. 86] Domestic Cars Chilton Book Company, 1987

Data Acquisition from Light-Duty Vehicles Using OBD and CAN Eric Walter, Richard Walter, 2018-11-15 Modern vehicles have multiple electronic control units ECU to control various subsystems such as the engine brakes steering air conditioning and infotainment These ECUs are networked together to share information directly with each other This in vehicle network provides a data opportunity for improved maintenance fleet management warranty and legal issues reliability and accident reconstruction Data Acquisition from LD Vehicles Using OBD and CAN is a guide for the reader on how to acquire and correctly interpret data from the in vehicle network of light duty LD vehicles The reader will learn how to determine what data is available on the vehicle s network acquire messages and convert them to scaled engineering parameters apply more than 25 applicable standards and understand 15 important test modes Topics featured in this book include Calculated fuel economy Duty cycle analysis Capturing intermittent faults Written by two specialists in this field Richard P Walter and Eric P Walter of HEM Data the book provides a unique roadmap for the data acquisition user The authors give a clear and concise description of the CAN protocol plus a review of all 19 parts of the SAE International J1939 standard family Data Acquisition from LD Vehicles Using OBD and CAN is a must have reference for product engineers service technicians fleet managers and

all interested in acquiring data effectively from the SAE J1939 equipped vehicles 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 acquistion 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 **Automotive Electronics** William Ribbens, 2003-01-10 Essentially all automotive electrical systems are effected by the new electrical system voltage levels As in all previous editions this revision keeps Understanding Automotive Electronics up to date with technological advances in this rapidly evolving field Discusses the development of hybrid electric vehicles and their associated electronic control monitoring systems Contains the new technologies incorporated into conventional gasoline and diesel fueled engines Covers the shift from 14 volt to 42 volt systems and includes info on future automotive elctronic Unit Maintenance Manual for Truck, Tractor, Line Haul, 52,000 GVWR, 6 X 4, M915A2 (NSN 2320-01-272-5029), systems Truck, Tractor, Light Equipment Transporter (LET), 68,000 GVWR, 6 X 6 W/winch, M916A1 (NSN 2320-01-272-5028). ,1992

Popular Science, 1982-11 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better Inter- and Intra-Vehicle Communications Gilbert Held, 2007-11-08 The PC revolution the advent of PDAs and growth in the use of wireless LANs have changed the way we live our lives Next on the horizon is the application of new technologies that will change the way we drive our cars De rigeur for many drivers electronic passes and GPS systems represent the tip of the iceberg in terms of emerging applications Auto <u>Upkeep</u> Michael E. Gray, Linda E. Gray, 2018-01-01 Discover how to choose a quality repair facility buy a car handle roadside emergencies diagnose common problems and communicate effectively with technicians all while saving money How to Tune and Modify Ford Fuel Injection Ben Watson, Popular Mechanics, 1986-02 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 Fundamentals of Medium/Heavy Duty Diesel Engines Gus Wright, 2021-09-30 Fundamentals of Medium Heavy Duty Diesel Engines Second Edition offers comprehensive coverage of every ASE task with clarity and precision in a

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riders be contesting the Honda mantra of niceness The previous owners AMF deserve much credit for the success of Harley Davidson They gave the Gang of 13 a platform from which to launch These new guys were brighter than bright They put a management team together that knew no bounds in success I am sure that Marketing 101 in every business school teaches and will continue to teach their brilliant story Harley Davidson became the epitome of American manufacturing and marketing the darling of capitalism at its finest Think about it How could a rusty old manufacturer whose time had drifted by reach such pinnacles of success Well H D had a little help along the way with two main sociological factors 1 The post World War II baby boom the aging bulge in American demographics looking for adventure and whatever safely came their way 2 A generation that worked hard raised families and then looked back at what they had missed in their youth Harley Davidson embodied the freedom and adventure they lacked Harley Davidson was granted two decades in which to plan a lasting and viable future It sought to be the motorcycle of mainstream America The world would follow This venerable company almost pulled it off The Motor Company updated technology both in their manufacturing venue and in the product itself H D balanced on a near impossible fulcrum maintaining tradition on one side and complying with environmental dictates on the other The Evolution's successor the air cooled Twin Cam introduced in 1999 with great success H D continued to grow and prosper I have always viewed the Twin Cam as a transitional model embracing the past but leading into a future of overhead cams and water jackets The new H D V Rod s technological marvels are a wonderful attempt but as much as the Factory hoped mainstream Harley riders did not take the bait en masse After all they had their psychological needs These attempts did not prevent dark clouds from appearing on the horizon 1 Inexorably the post World War II baby boom s bulge has grown older losing interest in reclaiming youth with interests shifting elsewhere Who is to take over this downsizing market Who will be left to support the Motor Company in the style it has become accustomed 2 In my humble opinion the masters of marketing did not fill the coming void of consumers I think H D is good at pretty much everything except lowering prices for the incoming generations Nor have they developed affordable and desirable product lines for the youth Certainly the Factory began to enjoy economies of scale in manufacturing I for one do not think they have used their profits wisely for continued prosperity Will I continue to ride a Harley at age 62 Sure I will but I was riding them before they became cool I am not a dentist looking for a safe walk on the wild side or a movie star acquiring the in bauble of the day The Evolution motorcycle saved the Hog s bacon but a new savior is now required **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 **Fundamentals of Automotive Maintenance and Light** 

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