

Component Identifiers (CID*) Module Identifier (MID*) Engine Control (MID No. 036)	
CID	Component
1	Injector Cylinder #1
2	Injector Cylinder #2
3	Injector Cylinder #3
4	Injector Cylinder #4
5	Injector Cylinder #5
6	Injector Cylinder #6
7	Injector Cylinder #7
8	Injector Cylinder #8
9	Injector Cylinder #9
10	Injector Cylinder #10
11	Injector Cylinder #11
12	Injector Cylinder #12
13	Injector Cylinder #13
14	Injector Cylinder #14
15	Injector Cylinder #15
16	Injector Cylinder #16
91	Throttle Position Sensor
94	Fuel Delivery Pressure Sensor
100	Engine Oil Pressure Sensor
101	Crankcase Air Pressure Sensor
105	Inlet Manifold Temperature Sensor
110	Engine Coolant Temperature Sensor
166	Electrical System Voltage
175	Engine Oil Temperature Sensor
180	Engine Speed Sensor
248	CAT Data Link
253	Personality Module
254	Electronic Control Module
261	Engine Timing Calibration
262	5 Volt Sensor Power Supply
263	Digital Sensor Power Supply (8V or 12V)
268	Programmed Parameter Fault
273	Turbocharger Outlet Pressure Sensor
274	Atmospheric Pressure Sensor
275	Right Turbocharger Inlet Pressure Sensor
276	Left Turbocharger Inlet Pressure Sensor
279	Aftercooler Coolant Temperature Sensor (Front)
289	Fuel Pressure Sensor - before fuel filter
336	Engine Control Switch
337	Remote Emergency Stop Switch
338	Engine Pre-Lube Pump Relay
446	Air Shutdown Relay
542	Engine Oil Pressure Sensor - before oil filter
545	Ether Injection Control Relay
546	Ether Injection Current (amps) Limit Relay
799	Service Tool
827	Left Exhaust Temperature Sensor
828	Right Exhaust Temperature Sensor
1495	Injector Codes

* The CID is a diagnostic code that indicates which circuit is faulty.

* The MID is a diagnostic code that indicates which electronic control module diagnosed the fault.

Failure Mode Identifiers (FMI)*	
FMI No.	Failure Description
0	Data valid but above normal operational range.
1	Data valid but below normal operational range.
2	Data erratic, intermittent, or incorrect.
3	Voltage above normal or shorted high.
4	Voltage below normal or shorted low.
5	Current below normal or open circuit.
6	Current above normal or grounded circuit.
7	Mechanical system not responding properly.
8	Abnormal frequency, pulse width, or period.
9	Abnormal update.
10	Abnormal rate of change.
11	Failure mode not identifiable.
12	Bad device or component.
13	Out of calibration.
14	Parameter failures.
15	Parameter failures.
16	Parameter not available.
17	Module not responding.
18	Sensor supply fault.
19	Condition not met.
20	Parameter failures.

* The FMI is a diagnostic code that indicates what type of failure has occurred.

Event Codes Engine Control	
Event Code	Condition
E0004	Engine Overspeed Shutdown.
E0007	High Aftercooler Temperature Derate.
E0008	High Aftercooler Temperature Shutdown.
E0009	High Altitude Derate.
E0012	High Crankcase Pressure Derate.
E0013	High Crankcase Pressure Shutdown.
E0015	High Engine Coolant Temperature Derate.
E0016	High Engine Coolant Temperature Shutdown.
E0017	High Engine Coolant Temperature Warning.
E0021	High Exhaust Temperature Derate.
E0031	Air Filter Restriction Derate.
E0038	Low Engine Coolant Temperature Warning.
E0040	Low Engine Oil Pressure Shutdown.
E0043	Low System Voltage Warning.
E0095	Fuel Filter Restriction Warning.
E0099	Engine Oil Filter Restriction Warning.
E0100	Low Engine Oil Pressure Warning.
E0101	High Crankcase Pressure Warning.
E0162	High Boost Pressure.
E0173	High Exhaust Temperature Warning.
E0190	Engine Overspeed Warning.
E0198	Low Fuel Pressure.
E0255	Diagnostic Reset.
E0264	Emergency Stop Activated.
E0272	Inlet Air Restriction Warning.
E0279	High Aftercooler Temperature Warning.
E2087	Air Intake Closed
E2088	Air Intake Detection Circuit Detected but Not Installed

Cat Engine Diagnostic Codes 3 2

**Don Knowles, Donald Knowles, Jack
Erjavec**

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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 concise format that ensures student comprehension and encourages critical thinking This edition describes safe and effective diagnostic repair and maintenance procedures for today s medium and heavy vehicle diesel engines , 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

Troubleshooting and Repair of Diesel Engines Paul Dempsey,2007-10-15 Harness the Latest Tools and Techniques for Troubleshooting and Repairing Virtually Any Diesel Engine Problem The Fourth Edition of Troubleshooting and Repairing Diesel Engines presents the latest advances in diesel technology Comprehensive and practical this revised classic equips you with all of the state of the art tools and techniques needed to keep diesel engines running in top condition Written by master mechanic and bestselling author Paul Dempsey this hands on resource covers new engine technology electronic engine management biodiesel fuels and emissions controls The book also contains cutting edge information on diagnostics fuel systems mechanical and electronic governors cylinder heads and valves engine mechanics turbochargers electrical basics starters and generators cooling systems exhaust aftertreatment and more Packed with over 350 drawings schematics and photographs the updated Troubleshooting and Repairing Diesel Engines features New material on biodiesel and straight vegetable oil fuels Intensive reviews of troubleshooting procedures New engine repair procedures and tools State of the art turbocharger techniques A comprehensive new chapter on troubleshooting and repairing electronic engine management systems A new chapter on the worldwide drive for greener more environmentally friendly diesels Get Everything You Need to Solve Diesel Problems Quickly and Easily Rudolf Diesel Diesel Basics Engine Installation Fuel Systems Electronic Engine Management Systems Cylinder Heads and Valves Engine Mechanics Turbochargers Electrical Fundamentals Starting and Generating Systems Cooling Systems Greener Diesels **Diesel Engine and Fuel System Repair** John F. Dagle,Robert N. Brady,1998 One of the only texts of its kind to devote chapters to the intricacies of electrical equipment in diesel engine and

fuel system repair this cutting edge manual incorporates the latest in diesel engine technology giving students a solid introduction to the technology operation and overhaul of heavy duty diesel engines and their respective fuel and electronics systems **Chilton's CCJ**, 1989-07 **Fleet Owner**, 1990 **Guide to the Evaluation of Educational Experiences in the Armed Services**, 1994 **Today's Technician** Don Knowles, Donald Knowles, Jack Erjavec, 1996 Following the integrated approach of the Today's Technician Series students will gain a comprehensive understanding of all types of automotive computer systems with this state of the art resource Numerous exercises complete with ASE checklists makes this package ideal for preparing for ASE certification It offers a complete overview of systems including engine control transmission brakes suspension and steering plus the latest information on oscilloscopes can testers and OBD II ALSO AVAILABLE INSTRUCTOR SUPPLEMENTS CALL CUSTOMER SUPPORT TO ORDER Instructor's Guide ISBN 0 8273 6885 2 Classroom Manager ISBN 0 8273 7585 9 KEY WORDS AUTOMOTIVE ELECTRICITY Catalog of Sears, Roebuck and Company Sears, Roebuck and Company, 1990 Chilton's Repair & Tune-up Guide, GM A-Body, 1982-83, 1983

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Haynes Ford Focus 2000 and 2001 Jay Storer, John Harold Haynes, 2002 Inside this manual the reader will learn to do routine maintenance tune up procedures engine repair along with aspects of your car such as cooling and heating air conditioning fuel and exhaust emissions control ignition brakes suspension and steering electrical systems wiring diagrams

Modern Diesel Technology Robert N. Brady, 1996 Through a carefully maintained building block approach this text offers an easy to understand guide to automotive truck and heavy equipment diesel engine technology in a single comprehensive volume Text focus is on state of the art technology as well as on the fundamental principles underlying today's technological advances in service and repair procedures Industry accepted practices are identified and readers are encouraged to formulate a sound understanding of both the why and the how of modern diesel engines and equipment Thorough up to date treatment of diesel technology encompasses major advancements in the field especially recent developments in the use of electronics in heavy duty trucks off highway equipment and marine applications The text's primary focus is on state of the art electronic fuel injection systems such as those being used by such manufacturers as Caterpillar Cummins Detroit Diesel Volvo and Mack A systematic structured organization helps readers learn step by step beginning with engine systems and working logically through intake exhaust cooling lubrication and fuel injection systems highlighting major changes in today's modern engines **Chilton's Import Car Repair Manual, 1986**, 1985 **Motor Industry Magazine**, 2006-07

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