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*Engine Light. Diagnose and  
Fix Cat Trouble Codes and  
Check Engine Lights. Flash  
Code Retrieval*

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How To Troubleshoot And  
Program A Cat ECM Cummins  
~~Diesel ISX, ISB service J1939  
service data link location~~

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~~connector pin removal~~

~~install~~ **CATERPILLAR CAT.**

**CBT, ET, SIS | How To**

**Troubleshoot Error Code or**

**Symptom** ~~How To Use cat et 3~~

~~CAT Caterpillar ET~~

~~Diagnostic Adapter~~ **Secret of**



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## **Engine Problem Diagnosis- Fuel Trims Pt.1**

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Reading Fault Codes from a  
Freightliner M2 Dash How To  
Fix Your Check Engine Light  
Without Diagnostic Machine

---

How to get your fault codes  
on freightliner century or

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Columbia

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The Difference Between  
Pending \u0026amp; Confirmed  
Fault Codes (Andy's Garage:  
Episode - 174) ~~HOW TO RESET  
CHECK ENGINE LIGHT, FREE  
EASY WAY!~~ *Pulling flash  
codes on 1998 pete 379 What*

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*Is An IVA, What Is A VVA,  
and How To Fix Cat IVA  
Codes. **How to Test***

**Crankshaft and Camshaft**

**sensors 1 How to scan**

**Freightliner codes with no**

**scan tool **CAT DATA LINK****

**Adapter III - diagnostic**

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**tool for caterpillar CAT ET  
3 Reading Flash Codes on an  
Older Caterpillar Engine How  
To Program A Cat ECM. How To  
Flash A Cat ECM. Cat  
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Truck Scan Tool with DPF  
Reset**

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CAT 3126B Check Engine Light  
- Retrieve Flash Codes ~~FIX~~  
~~ANY CUMMINS FAULT CODE STEP~~  
~~BY STEP (VIDEO 1 OF 9) How~~  
~~To Check Fault Code On A~~  
~~Cummins ISX Engine Cat c7~~  
icu 140 code fixed J1939 Cat  
Engine Codes

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J1939 Cat Engine Codes J1939  
Code and Description CDL  
Code and Description 486-3.  
Engine Fan Reverse Switch :  
Voltage Above Normal. 486-4.  
Engine Fan Reverse Switch :  
Voltage Below Normal. 544-2.  
Engine Cooling Fan Speed

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Sensor : Erratic,  
Intermittent, or Incorrect.  
544-8.

## J1939 Cat Engine Codes

J1939 Code and Description

CDL Code and Description

486-3. Engine Fan Reverse

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Switch : Voltage Above  
Normal. 486-4. Engine Fan  
Reverse Switch : Voltage  
Below Normal. 544-2. Engine  
Cooling Fan Speed Sensor :  
Erratic, Intermittent, or  
Incorrect. 544-8. Engine  
Cooling Fan Speed Sensor :



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Abnormal Frequency, Pulse Width, or Period. 1076-5.

CAT C13, C15, and C18 Tier 4  
Final Engine Fault Codes

J1939 Cat Engine Code

Failure Mode Identifier

(FMI) Codes on J1939 data

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link The FMI is used along with the SPN to provide specific information that relates to a diagnostic trouble code (DTC). The FMI may indicate that a problem with an electronic circuit or an electronic component

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has been detected.

Troubleshoot A Cat Check  
Engine Light.

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legend.kingsbountygame.com

J1939 Cat Engine Codes -  
thepopculturecompany.com The

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Suspect Parameter Number (SPN) is diagnostic fault code terminology found on some Caterpillar ® products using a J1939 CAN data link. The Society of Automotive Engineers (SAE) developed the J1939 standards and SPN

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code terms

Cat Engine Code J1939 Abs  
Light On

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1x1px.me

The Suspect Parameter Number (SPN) is diagnostic fault code terminology found on some Caterpillar ® products using a J1939 CAN data link. The Society of Automotive

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Engineers (SAE) developed the J1939 standards and SPN code terms have been assigned for specific parameters (component or system circuits) that diagnostic trouble codes (DTC) are associated with.

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Suspect Parameter Numbers  
(SPN) on J1939 data link | #

...

Failure Mode Identifier  
(FMI) Codes on J1939 data  
link. The FMI is used along  
with the SPN to provide

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specific information that relates to a diagnostic trouble code (DTC). The FMI may indicate that a problem with an electronic circuit or an electronic component has been detected. The FMI may also indicate that an

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abnormal operating condition  
has been detected.

Failure Mode Identifier  
(FMI) Codes on J1939 data  
link | # ...

CAT Fault Codes |  
Caterpillar Engine Errors

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And Trouble Codes Cat  
Diagnostic codes are used by  
the electronic system in  
order to alert the operator  
that a problem exists. A  
diagnostic code also  
indicates the nature of the  
problem for you, and you can

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see what is the code meaning  
with CatFaultCodes.com  
service.

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Caterpillar C15 Truck Engine

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B5R Fault Codes List See  
also: Caterpillar PDF  
Service Manuals Diagnostic  
Trouble Codes SMCS - 1900  
Table 1 lists the diagnostic  
trouble codes that apply to  
the engines that are covered  
in this manual. Use the



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Caterpillar Electronic Technician (ET) in order to determine the codes that are active or logged. Then refer to the appropriate troubleshooting procedure for ...

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Caterpillar C15 Truck Engine  
B5R Fault Codes List ...

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Cat Engine Code Failure Mode  
Identifier (FMI) Codes on  
J1939 data link The FMI is  
used along with the SPN to

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provide specific information that relates to a diagnostic trouble code (DTC). The FMI may indicate that a problem with an electronic circuit or an electronic component has been detected.

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happyhounds.pridesource

ELECTRICAL & ELECTRONIC  
APPLICATION AND INSTALLATION  
GUIDE C11, C13, & C15  
ENGINES EQUIPPED WITH 8.  
CATERPILLAR REGENERATION  
SYSTEM. PID/SID-FMI J1939

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SPN-FMI Diagnostic Code  
Description. 328-4 3245-4  
Exhaust Gas Temperature # 3  
Voltage Low 328-11 3245-16  
Very High Exhaust Gas  
Temperature # 3 332-0  
3480-15 High Aftertreatment  
Main Fuel Pressure 332-1

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3480-17 Low Aftertreatment  
Main Fuel Pressure 332-3  
3480-3 Aftertreatment Main  
Fuel Pressure Voltage High  
332-4 3480-4 Aftertreatment  
...

33. ATA/J1939 Diagnostic

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## Code Quick Reference

J1939 Code and Description  
CDL Code and Description CAT  
C13, C15, and C18 Tier 4  
Final Engine Fault Codes  
1235-9 5856-9 J1939 Network  
#3 : Abnormal Update Rate  
SAE J1939 Data Link

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Where To Download J1939 Cat  
Engine Code J1939 Cat Engine  
Code Failure Mode Identifier  
(FMI) Codes on J1939 data  
link The FMI is used along



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with the SPN to provide specific information that relates to a diagnostic trouble code (DTC). The FMI may indicate that a problem with an electronic circuit or an electronic component has been detected.

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In short, SAE J1939 is a set of standards that define how ECUs communicate via the CAN bus in heavy-duty vehicles. As explained in our CAN bus

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intro, most vehicles today use the Controller Area Network (CAN) for ECU communication. However, CAN bus only provides a "basis" for communication (like a telephone) - not a "language" for conversation.

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J1939 Explained - A Simple  
Intro (2020)

i have a j1939 code on a  
2009 peterbilt with a cat  
c13 engine. I am not getting  
the computer to show any of  
the chassis info from the

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ecm. The SID is 231 with FMI 14 as well as j1939 sid 231 with fmi 2. These are all coming from the brake module power unit.

i have a j1939 code on a  
2009 peterbilt with a cat

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c13 engine.

Not referenced in J1939-71:

24: Generator Coolant

Temperature: Not referenced  
in J1939-71: 27: Engine

Exhaust Gas Recirculation 1

Valve Position: The position  
of the exhaust gas

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recirculation valve  
expressed as a percentage of  
full travel. Zero percent  
means the valve is closed  
and no exhaust gas is  
flowing into the intake air  
stream.

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SPN list - Xee

7 .9 optional switches,  
lamps, and alarms . . . . .  
. . . . .  
.54 . 7 .10 u .s ./metric  
display switch ...



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"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

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DIESEL ENGINES, Second  
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thorough, reader-friendly  
introduction to diesel  
engine theory, construction,  
operation, and service.

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straightforward writing  
style, ample illustrations,  
and step-by-step  
instruction, this trusted  
guide helps aspiring  
technicians develop the  
knowledge and skills they

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need to service modern, computer-controlled diesel engines. The book provides an overview of essential topics such as shop safety, tools and equipment, engine construction and operation, major engine systems, and

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general service and repair concepts. Dedicated chapters then explore engine, fuel, and vehicle computer control subsystems, as well as diesel emissions. Thoroughly revised to reflect the latest technology, trends,

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and techniques—including current ASE Education Foundation standards—the Second Edition provides an accurate, up-to-date introduction to modern diesel engines and a solid foundation for professional

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accepted industry standard and the vehicle network technology of choice for off-highway machines. This resource provides profound information on the J1939 message format and network management.

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Linux® is being adopted by an increasing number of embedded systems developers, who have been won over by

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its sophisticated scheduling and networking, its cost-free license, its open development model, and the support offered by rich and powerful programming tools. While there is a great deal of hype surrounding the use



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of Linux in embedded systems, there is not a lot of practical information. Building Embedded Linux Systems is the first in-depth, hard-core guide to putting together an embedded system based on the Linux

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kernel. This indispensable book features arcane and previously undocumented procedures for: Building your own GNU development toolchain Using an efficient embedded development framework Selecting,

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configuring, building, and  
installing a target-specific  
kernel Creating a complete  
target root filesystem  
Setting up, manipulating,  
and using solid-state  
storage devices Installing  
and configuring a bootloader

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for the target Cross-  
compiling a slew of  
utilities and packages  
Debugging your embedded  
system using a plethora of  
tools and techniques Details  
are provided for various  
target architectures and

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hardware configurations, including a thorough review of Linux's support for embedded hardware. All explanations rely on the use of open source and free software packages. By presenting how to build the

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operating system components  
from pristine sources and  
how to find more  
documentation or help, this  
book greatly simplifies the  
task of keeping complete  
control over one's embedded  
operating system, whether it

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be for technical or sound financial reasons. Author Karim Yaghmour, a well-known designer and speaker who is responsible for the Linux Trace Toolkit, starts by discussing the strengths and weaknesses of Linux as an

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embedded operating system. Licensing issues are included, followed by a discussion of the basics of building embedded Linux systems. The configuration, setup, and use of over forty different open source and



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free software packages commonly used in embedded Linux systems are also covered. uClibc, BusyBox, U-Boot, OpenSSH, tftpd, tftp, strace, and gdb are among the packages discussed.

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Opening with a short introduction into the fundamentals of CAN, the book then examines the

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problems and solutions for the physical layout of networks, including EMC issues and topology layout. Additionally, a discussion of quality issues with a particular focus on test techniques is presented.

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thorough coverage of architectures, implementations and application of CAN transceiver, data link layer and so-called higher layer software; explains CAN EMC characteristics and

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countermeasures, as well as how to design CAN networks; demonstrates how to practically apply and test CAN systems; includes examples of real networks from diverse applications in automotive engineering,

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avionics, and home heating technology.

A Comprehensible Guide to Controller Area Network by Wilfred Voss represents the most thoroughly researched and most complete work on

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CAN available in the marketplace. It includes: A Brief History of CAN, Main Characteristics, Message Frame Architecture, Message Broadcasting, Bus Arbitration, Error Detection & Fault Confinement, CAN



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Physical Layer, and more?

This book is intended to serve as a comprehensive reference on the design and development of diesel engines. It talks about combustion and gas exchange

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processes with important references to emissions and fuel consumption and descriptions of the design of various parts of an engine, its coolants and lubricants, and emission control and optimization

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techniques. Some of the topics covered are turbocharging and supercharging, noise and vibrational control, emission and combustion control, and the future of heavy duty diesel engines.

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(CAN) technologies, represents the perfect guide to implementing an SAE J1939 protocol stack for embedded systems. The book is filled with numerous C/C++ code examples and valuable documentation of the

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resulting J1939 vehicle network data traffic. It explains in great detail the inner workings of the protocol through designing and transmitting J1939 data frames, receiving and processing J1939 data

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frames, and simulating J1939 ECUs (Electronic Control Units). Other Arduino sketches (software projects) include a J1939 network scanner, and a simple SAE J1939 to USB Gateway application with associated

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Windows GUI (Visual Studio C# project). The collection of sketches is concluded by the ARD1939 project, a fully functional SAE J1939 protocol stack for the Arduino Uno and Mega 2560. As an added value, the



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included proof of concept explains (by means of code examples and bus traffic recordings) the details of the Transport Protocol (TP) according to SAE J1939/21 (BAM Session, RTS/CTS Session) and the Address

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Claim Procedure according to SAE J1939/81. In combination with the low-cost and high-level user-friendliness approach of the Arduino environment, this book represents the ideal platform to learning and

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implementing embedded applications with the SAE J1939 protocol stack.

With the current advances in technology innovation, the field of medicine and healthcare is rapidly

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virtual reality (VR) and  
other new technologies A  
review of telemedicine  
technologies Building  
empathy in young children  
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& rehabilitation robotics  
control Mobile doctor brain  
AI App An artificial  
intelligence mobile cloud  
computing tool Development  
of a robotic teaching aid

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Training system design of  
lower limb rehabilitation  
robot based on virtual  
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