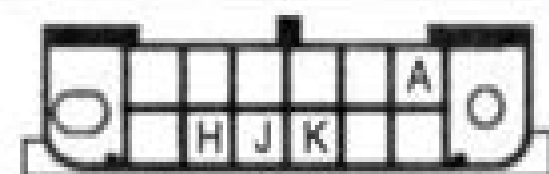
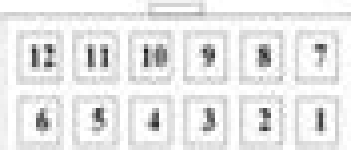


12-pin Molex	6-pin Deutsch	9-pin Deutsch	DDEC / ALDL
(GND) 1	E	A	A
2			
J1587 / 1708 DATA + 3	A	F	J
J1587 / 1708 DATA - 4	B	G	K
J1939 DATA + 5		C	
J1939 DATA - 6		D	
(PWR) 7	C	B	H
Headlight Switch 8			



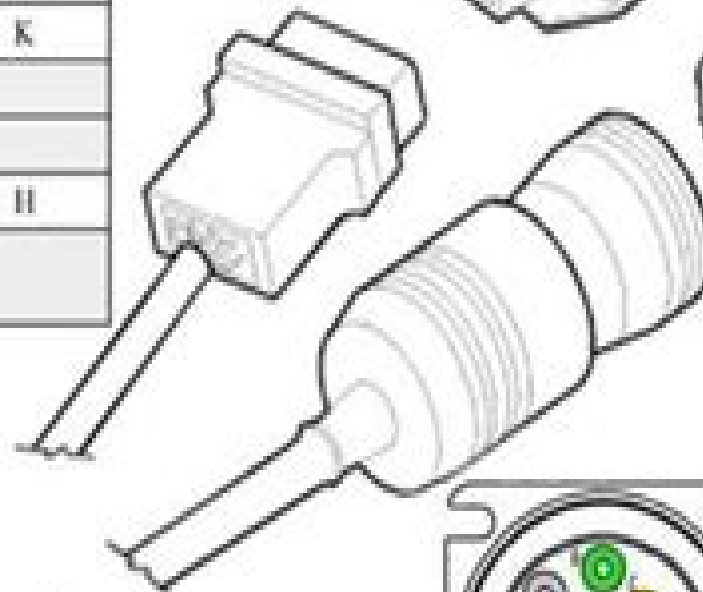
12-pin
Molex



Wire-Side View

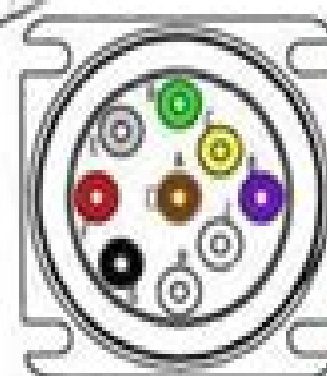
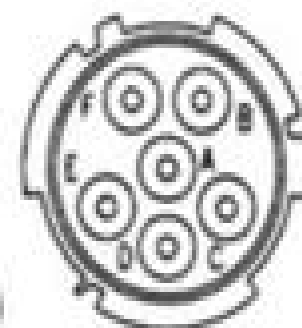









12-pin
J1708/
J1587



6-pin
J1708

Deutsch



-  A KL31 (batt-)
-  B KL15 (ignition)
-  C CAN-H
-  D CAN-L
-  E J1939 GND
-  F J1708+
-  G J1708-

H Not Connected

J Not Connected

9-pin
J1939

Shown Socket Side
and
Plug (Wire-Side)

J1939 Controls Trucks Diagram

**Truck Bus Control and
Communications Network Committee**

J1939 Controls Trucks Diagram:

Connectivity and the Mobility Industry Andrew Brown, 2011-10-24 Bound to play an ever increasing role in the driver vehicle relationship connectivity is becoming a basic consumer requirement when it comes to choosing a vehicle Moving from the computer into the car the ability to stay in touch informed and entertained has reached yet a higher level of technology ubiquity Featuring 20 SAE technical papers published in 2010 and 2011 *Connectivity and the Mobility Industry* addresses important aspects of one of the most cutting edge topics in the industry today Edited by Dr Andrew Brown Jr 2010 SAE International President and Chief Technologist for Delphi Corporation this book also includes three original articles on the subject written by various experts What to Expect Beyond 2015 Fourth Generation Wireless and the Vehicle The Evolution of the Driving Experience and Associated Technologies Wireless Charging of Electric Vehicle Converged with Communication Technology Part of the new paradigm of green safe and connected this title is of special interest to those looking for an integrated view of how the driving experience will develop within these boundaries and what emerging technologies are likely to be successful in the upcoming years This book is the third in the trilogy from SAE on Safe Green and Connected vehicles in the mobility industry edited by Dr Andrew Brown Jr The other two books in this trilogy are *Green Technologies and the Mobility Industry* *Active Safety and the Mobility Industry* Buy a Combination of Books and Save This trilogy can be purchased in a combination of two books as follows *Green Technologies and Active Safety in the Mobility Industry* *Green Technologies and Connectivity in the Mobility Industry* *Active Safety and Connectivity in the Mobility Industry* Buy the Entire 3 Book Set and Save the Most *Green Safe Connected The Future of Mobility* *Fundamentals of Medium/Heavy Duty Commercial Vehicle Systems* Gus Wright, Owen C. Duffy, 2019-07 Thoroughly updated and expanded *Fundamentals of Medium Heavy Duty Commercial Vehicle Systems* Second Edition offers comprehensive coverage of basic concepts building up to advanced instruction on the latest technology including distributed electronic control systems energy saving technologies and automated driver assistance systems Now organized by outcome based objectives to improve instructional clarity and adaptability and presented in a more readable format all content seamlessly aligns with the latest ASE Medium Heavy Truck Program requirements for MTST Back cover *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 **Power Electronics for Renewable and Distributed Energy Systems** Sudipta Chakraborty, Marcelo G. Simões, William E. Kramer, 2013-06-12 While most books approach power electronics and renewable energy as two separate subjects *Power Electronics for Renewable and Distributed Energy Systems* takes an integrative approach discussing power electronic converters topologies controls and integration that are specific to the renewable and

distributed energy system applications An overview of power electronic technologies is followed by the introduction of various renewable and distributed energy resources that includes photovoltaics wind small hydroelectric fuel cells microturbines and variable speed generation Energy storage systems such as battery and fast response storage systems are discussed along with application specific examples After setting forth the fundamentals the chapters focus on more complex topics such as modular power electronics microgrids and smart grids for integrating renewable and distributed energy Emerging topics such as advanced electric vehicles and distributed control paradigm for power system control are discussed in the last two chapters With contributions from subject matter experts the diagrams and detailed examples provided in each chapter make Power Electronics for Renewable and Distributed Energy Systems a sourcebook for electrical engineers and consultants working to deploy various renewable and distributed energy systems and can serve as a comprehensive guide for the upper level undergraduates and graduate students across the globe

Cybersecurity for Commercial Vehicles Gloria D'Anna, 2018-08-28 This book provides a thorough view of cybersecurity to encourage those in the commercial vehicle industry to be fully aware and concerned that their fleet and cargo could be at risk to a cyber attack It delivers details on key subject areas including SAE International Standard J3061 the cybersecurity guidebook for cyber physical vehicle systems The differences between automotive and commercial vehicle cybersecurity Forensics for identifying breaches in cybersecurity Platooning and fleet implications Impacts and importance of secure systems for today and for the future Cybersecurity for all segments of the commercial vehicle industry requires comprehensive solutions to secure networked vehicles and the transportation infrastructure It clearly demonstrates the likelihood that an attack can happen the impacts that would occur and the need to continue to address those possibilities This multi authored presentation by subject matter experts provides an interesting and dynamic story of how industry is developing solutions that address the critical security issues the key social policy and privacy perspectives as well as the integrated efforts of industry academia and government to shape the current knowledge and future cybersecurity for the commercial vehicle industry

Heavy Vehicle Event Data Recorder Interpretation Christopher D Armstrong, 2018-11-02 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 *Applications of Fuel Cells in Vehicles*, 2005 [SAE International's Dictionary of Commercial Vehicles](#) Jon M. Quigley, Wesley Chominsky, 2024-07-10 Embark on a journey through the pulsating heart of global commerce with the Commercial Vehicle Dictionary a comprehensive guide illuminating the intricate language of transportation From seasoned professionals to curious enthusiasts this indispensable resource unveils the dynamic world of commercial vehicles blending precision innovation and sustainability Navigate with confidence as you explore a meticulously curated lexicon covering vehicle classifications advanced technologies safety protocols regulatory frameworks and emerging trends Whether optimizing routes tending to fields or fascinated by machinery this dictionary serves as your beacon through the ever evolving landscape of commercial vehicles Empower yourself with knowledge enhance communication and deepen your understanding of this multifaceted industry Whether deciphering engine technologies mastering logistics management or staying updated on industry standards let this dictionary be your compass in the vast realm of commercial vehicles Dive into the rich tapestry of terms and concepts that shape the language of transportation your journey begins here ISBN 9781468607888 ISBN 9781468607895 ISBN 9781468607901 DOI 10 4271 9781468607895

Road Vehicle Automation 3 Gereon Meyer, Sven Beiker, 2016-07-01 This edited book comprises papers about the impacts benefits and challenges of connected and automated cars It is the third volume of the LNMOB series dealing with Road Vehicle Automation The book comprises contributions from researchers industry practitioners and policy makers covering perspectives from the U S Europe and Japan It is based on the Automated Vehicles Symposium 2015 which was jointly organized by the Association of Unmanned Vehicle Systems International AUVSI and the Transportation Research Board TRB in Ann Arbor Michigan in July 2015 The topical spectrum includes but is not limited to public sector activities human factors ethical and business aspects energy and technological perspectives vehicle systems and transportation infrastructure This book is an indispensable source of information for academic researchers industrial engineers and policy makers interested in the topic of road vehicle automation **Technical Literature Abstracts** Society of Automotive Engineers, 1996 *California Builder & Engineer*, 1999 [Data Acquisition from HD Vehicles Using J1939 CAN Bus](#) Richard Walter, Eric Walter, 2016-07-14 Modern vehicles have electronic control units ECUs to control various subsystems such as the engine brakes steering air conditioning and infotainment These ECUs or simply controllers are networked together to share information and output directly measured and calculated data to each other This in vehicle network is a data goldmine for improved maintenance measuring vehicle performance and its subsystems fleet management warranty and legal issues reliability durability and accident reconstruction The focus of Data Acquisition from HD Vehicles Using J1939

CAN Bus is to guide the reader on how to acquire and correctly interpret data from the in vehicle network of heavy duty HD vehicles The reader will learn how to convert messages to scaled engineering parameters and how to determine the available parameters on HD vehicles along with their accuracy and update rate Written by two specialists in this field Richard Rick P Walter and Eric P Walter principals at HEM Data located in the United States the book provides a unique road map 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 Pertinent standards are illuminated with tables graphs and examples Practical applications covered are calculating fuel economy duty cycle analysis and capturing intermittent faults A comparison is made of various diagnostic approaches including OBD II HD OBD and World Wide Harmonized WWH OBD Data Acquisition from HD Vehicles Using J1939 CAN Bus is a must have reference for those interested to acquire data effectively from the SAE J1939 equipped vehicles

On-Highway Equipment Control and Communication Network Truck Bus Control and Communications Network Committee, 2018 SAE J1939 1 On Highway Equipment Control and Communication Network specifies the minimum set of SAE J1939 documents that define the Truck and Bus Control and Communications Vehicle Network as it applies to on highway equipment Vehicles covered include all on highway straight trucks and combination vehicles A combination vehicle consists of one towing vehicle tractor and one or more towed vehicles trailers and dollies Dolly axles within the road train are considered to be towed vehicles This document has been updated as required by the Five Year Review The document was revised to include several specifications and notes that have been added since the previous Five Year Review Changes include typographical corrections addition of SAE J1939 16 SAE J1939DA and SAE J1939 84 specifications added reference to ISO 11992 and ISO 11898 2 added the definition of a gateway and added reference to SAE J1939 84 in the OBD section

SAE Truck and Bus Control and Communications Network Standards Manual Society of Automotive Engineers, 2001 The J1939 Handbook Supplement is a set of Recommended Practices defining a data network for use in a wide variety of applications with primary emphasis to date on heavy duty vehicles It was designed to support general purpose information transfer as well as the more demanding tasks of distributed control systems on board a vehicle The top level document provides an overview and serves as a master control for common definitions used by multiple applications and industries The J1939 document defines the use of these standards in a particular application or industry allowing J1939 to be tailored as needed without having to include definitions that do not apply The intent of J1939 is to allow plug and play capability for any device that is added to the network This means that components made by different manufacturers can be installed on a common network either during vehicle manufacture or as aftermarket devices and that they will work together This includes devices used in complex systems such as vehicle drivetrains wherein these devices must interact to perform sophisticated control functions As such J1939 represents far more than just a data network By the manner in which data elements and messages are defined and agreed to within the subcommittee it has become a means of performing system

engineering and integration across each industry that is using it Vehicle Application Layer Truck Bus Control and Communications Network Committee, 2022 The SAE J1939 communications network is developed for use in heavy duty environments and suitable for horizontally integrated vehicle industries The SAE J1939 communications network is applicable for light duty medium duty and heavy duty vehicles used on road or off road and for appropriate stationary applications which use vehicle derived components e g generator sets Vehicles of interest include but are not limited to on highway and off highway trucks and their trailers construction equipment and agricultural equipment and implements SAE J1939 71 is the SAE J1939 reference document for the conventions and notations used to specify the parameter SP placement in PG data the conventions for ASCII parameters and conventions for PG transmission rates This document previously contained the majority of the SAE J1939 OSI application layer data parameters and messages for information exchange between the ECU applications connected to the SAE J1939 communications network It also contained reference figures and reference information The data parameters SPs messages PGs reference figures and information previously published within this document are now published in SAE J1939DA There are several SAE J1939 7X documents that collectively define all of the SAE J1939 application layer data parameters and messages Diagnostic services and some industry specific data parameters and messages are documented within other SAE J1939 7X application layer documents An ECU may simultaneously use and support data parameters and messages from multiple SAE J1939 7X application layer documents Section 4 Abbreviations and 5 2 1 1 Torque Parameter Definitions have been moved to SAE J1939DA These changes are identified in this revision Improvements have been made to properly describe Suspect Parameters SP and Parameter Groups PG PG data descriptions were updated to match SAE J1939 22 terminology Other label descriptions and diagrams were updated to match their use in SAE J1939DA A Table of Contents was added and various references updated to support the Table of Contents Data Link Layer Truck Bus Control and Communications Network Committee, 2018 The SAE J1939 documents are intended for light medium and heavy duty vehicles used on or off road as well as appropriate stationary applications which use vehicle derived components e g generator sets Vehicles of interest include but are not limited to on and off highway trucks and their trailers construction equipment and agricultural equipment and implements The purpose of these documents is to provide an open interconnect system for electronic systems It is the intention of these documents to allow Electronic Control Units to communicate with each other by providing a standard architecture This particular document SAE J1939 21 describes the data link layer using the Classical Extended Frame Format CEFF with 29 bit IDs as defined in ISO 11898 1 December 2015 For SAE J1939 no alternative data link layers are permitted This revision of the SAE J1939 21 Recommended Practice includes the following changes A final set of edits have been made to align this document with data frame format definitions that were updated in ISO 11898 1 2015 References to ISO documents used in this Recommended Practice have been corrected to identify the document and date of publication Updated interframe timing for

TP BAM messages Implementation rules for TP CM_CTS and TP CM_RTS messages have been updated including guidance for error handling Additional rules about responding to a Request message are included in the notes to Table 5 Binary numbering formats have been changed to include a subscripted letter b after the binary number e g 010b Hexadecimal numbering formats have been changed to include a subscripted letter h after the hexadecimal number e g FEh There have also been formatting changes designed to improve consistency particularly with the use of abbreviations and to correct errors in the text and in illustrations Finally some of the diagrams from the previous version of the document have been replaced with new diagrams as the Drawing functionality that was available in Microsoft Word 2010 has been removed from Microsoft Word 2013 preventing changes from being made to the diagrams

J1939 Digital Annex Truck Bus Control and Communications Network Committee,2015 This document is intended to supplement the J1939 documents by offering the J1939 information in a form that can be sorted and search for easier use The J1939 Digital Annex introduced in August 2013 offers key J1939 technical data in an Electronic Spreadsheet that can be easily searched sorted and adapted to other formats J1939DA contains all of the SPNs parameters PGNs messages and other J1939 data previously published in the SAE J1939 top level document J1939DA also contains all of the SLOTS Manufacturer ID Codes NAME Functions and Preferred Addresses previously published in the SAE J1939 top level and the J1939 71 document J1939DA contains the complete technical details for all of the SPNs and PGNs previously published in the SAE J1939 71 document It also includes the supporting descriptions and figures previously published in the SAE J1939 71 document For other SPNs and PGNs which are published in a document other than SAE J1939 71 J1939DA lists only basic details along with a reference to the document that contains the complete technical details J1939DA replaces and expands upon the J1939 Companion Spreadsheet CS1939 which was last published through November 2012 The data fields included in J1939DA for PGNs are PGN Parameter Group Label Acronym EDP DP PF PGN Length PS PGN Description Multipacket Transmission Rate PGN Data Length Default Priority PGN Reference PGN Document The data fields included in J1939DA for SPNs are SPN SPN Name SPN Description SPN Length Resolution Offset Data Range Operational Range Units SLOT Identifier SPN Type SPN Reference SPN Document The J1939 Digital Annex is current through Third Quarter 2015 and can be purchased separately or as part of the SAE J1939 Standards Collection on the Web <http://www.sae.org/standardsdev/groundvehicle/j1939.htm> This revision of the J1939 Digital Annex covers parameters approved thru the November 2015 4Q2015 meeting

Application Layer - Diagnostics Truck Bus Control and Communications Network Committee,1996 The SAE J1939 series of recommended practices are intended for light and heavy duty vehicle uses on or off road as well as appropriate stationary applications which use vehicle derived components e g generator sets Vehicles of interest include but are not limited to on and off highway trucks and their trailers construction equipment and agriculture equipment and implements The purpose of these documents is to provide an open interconnect system for on board electronic systems It is the intention of these documents to allow electronic devices

to communicate with each other by providing a standard architecture J1939 73 identifies the diagnostic connector to be used for the vehicle service tool interface and defines messages to accomplish diagnostic services California regulated OBD II requirements are satisfied with a subset of the specified connector and the defined messages Diagnostic messages DMs provide the utility needed when the vehicle is being repaired Diagnostic messages are also used during vehicle operation by the networked electronic control modules to allow them to report diagnostic information and self compensate as appropriate based on information received Diagnostic messages include services such as periodically broadcasting active diagnostic trouble codes identifying operator diagnostic lamp status reading or clearing diagnostic trouble codes reading or writing control module memory provide a security function stopping starting message broadcasts reporting diagnostic readiness monitoring engine parametric data etc

Powertrain Control Interface for Electronic Controls Used in Medium- and Heavy-Duty Diesel On-Highway Vehicle Applications Truck and Bus Low Speed Communication Network Committee, 2008

This SAE Recommended Practice provides a development or possibly interim production communication protocol between engine transmission ABS traction control and retarder systems until higher speed communication links are established J1922 is no longer actively supported by a current ECU and has been superseded by J1939 on all current North American trucks but it is installed and working in thousands of trucks today J1922 is being moved to a Non current status since it is not being implemented in new products but still needs to be available to maintain the trucks that are using it

Compliance Truck and Bus Control and Communications Network Committee, 2015

SAE J1939 82 Compliance describes the compliance tests and procedures to verify an SAE J1939 ECU will operate correctly on a SAE J1939 network The purpose of these compliance procedures is to generate one or more test documents that outline the tests needed to assure that an ECU that is designed to operate as a node on a SAE J1939 network would do so correctly SAE does not certify devices and these tests and their results do not constitute endorsement by SAE of any particular device These tests are presented to allow testing of a device to determine self compliance by the manufacturer of a device The manufacturer can use its record of what procedures were run successfully to show the level of compliance with SAE J1939 This document has been revised to include new tests for recent changes to associated SAE J1939 documents update cross references to the document section in the associated SAE J1939 documents and add clarification to the test descriptions The new tests have been added to cover changes made recently to the SAE J1939 21 SAE J1939 31 and SAE J1939 81 documents Test descriptions and test names have been updated for many of the tests associated with the SAE J1939 21 and SAE J1939 31 documents primarily for clarification The tests listed in Tables A5 A6 A7 and A8 were reordered to keep together existing and new tests for similar aspects

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