"The premier society dedicated to advancing mobility engineering worldwide."

FACT SHEET

SAE Ground Vehicle Technical Committees: Electrical Systems
Vehicle E/E Systems Diagnostic Standards Committee

The Vehicle E/E Systems Diagnostic Standards Committee reports to the Electrical Systems Group of the Motor Vehicle Council. The Committee is responsible for developing and maintaining SAE Standards, Recommended Practices, and Information Reports related to a more effective diagnosis of vehicle electrical and electronic system problems, which will increase customer satisfaction and lower product life cycle costs.

The following task forces have been developed under the committee's scope:

J2450 Quality Metric for Language Translation/Service Information
An industry-wide metric for the evaluation of translation quality; document the process of developing this metric and obtaining its approval; and communicate the metric to translation suppliers.
The objective of the metric is to establish a consistent standard against which the translation quality of automotive service information can be objectively measured regardless of the source language, target language, or how the translation is performed (i.e., human translation or machine translation).

J2534 Pass-Thru Programming
A specification to define an interface between a PC-based reprogramming tool and a vehicle. A SAE J1962 connector can be used for reprogramming electronic control units for all automobile manufacturers that sell vehicles in the United States. This specification can either be implemented as a standalone interface or integrated with the functionality of other tools that communicate with vehicle control modules over a diagnostic serial data link.

J1699-3 OBD 11 Compliance Tests
A Recommended Practice to verify that vehicles are capable of communicating a minimum subset of information in accordance with the diagnostic test modes specified in SAE J1979/ISO 15031-5, *Communication Between Vehicle and External Equipment for Emissions—Related Diagnostics*.
The software specified by this document will utilize the SAE J2534 Pass-Thru Programming vehicle interface.

J1979 Review

J1930 Electrical/Electronic Systems Diagnostic Terms, Definitions, Abbreviations and Acronyms
Nomenclature for vehicle electrical and electronic systems to uniformly convey service information to technicians engaged in the diagnosis and repair of increasingly complex vehicles.

J2012 Diagnostic Trouble Code
A list of industry common powertrain related diagnostic trouble code definitions for use by ground vehicle manufacturers in support of the service community.

Participants in the Vehicle E/E Systems Diagnostic Standards Committee include OEMs, suppliers, consulting firms, government, and other interested parties.

SAE Vehicle E/E Systems Diagnostic Standards Committee
Standards Development & Revision Activities

J1115 Guidelines for Developing and Revision SAE Nomenclature and Definitions

J1699/1 SAE J1850 Verification Test Procedures

J1699/2 OBD II Related SAE Specification Verification Test Procedures

J1699/3 Vehicle OBD II Compliance Test Cases

J1930 Electrical/Electronic Systems Diagnostic Terms, Definitions, Abbreviations, and Acronyms—Equivalent to ISO/TR 15031-2:April 30, 2002

J1930DA J1930 Electrical/Electronic Systems Diagnostic Terms, Definitions, Abbreviations, and Acronyms Web Tool Spreadsheet

J1962 Diagnostic Connector Equivalent to ISO/DIS 15031-3:December 14, 2001

J1978 OBD II Scan Tool—Equivalent to ISO/DIS 15031-4:December 14, 2001J1979 E/E Diagnostic Test Modes—Equivalent to ISO/DIS 15031-5:April 30, 2002

J1979DA Digital Annex of E/E Diagnostic Test Modes

J1979 E/E Diagnostic Test Modes

J2012 Diagnostic Trouble Code Definitions Equivalent to ISO/DIS 15031-6: April 30, 2002

J2062 A Class B Serial Bus Diagnostic Protocol

J2186 E/E Data Link Security

J2450 Translation Quality Metric

J2450/1 SAE J2450 Supplemental Training Document

J2534/1 Recommended Practice for Pass-Thru Vehicle Programming

J2534/2 Optional Pass-Thru Features

J2610 Serial Data Communication Interface

J2740 General Motors UART Serial Data Communications

J2809 Honda Diagnostic Serial Data Link Protocol--ABS/VSA System

J2818 Keyword Protocol 1281

J2819 P2.0 Vehicle Diagnostic Protocol

One world.

One standard.

One Source.

Join an SAE Standards committee.

For more information
or to participate on a Vehicle E/E Systems Diagnostic Standards Committee, contact:

Maryvonne L Jacquemart
1-248-273-2467
mjacquemart@sae.org
http://www.sae.org/servlets/works

To purchase
SAE Technical Standards

1-877-606-7323
(US and Canada)
or
1-724-776-4970

www.store.sae.org
customerservice@sae.org