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Over 700 technical committees and 17,000+ technical professionals from around the globe meet at the SAE standards development table to harmonize the requirements and practices used in the development of ground vehicles and impact the industry's technical agenda.

With over 2,500 global documents in the ground vehicle repository, these documents are developed and managed to comply with the World Trade Organization's guidelines for development of international standards.
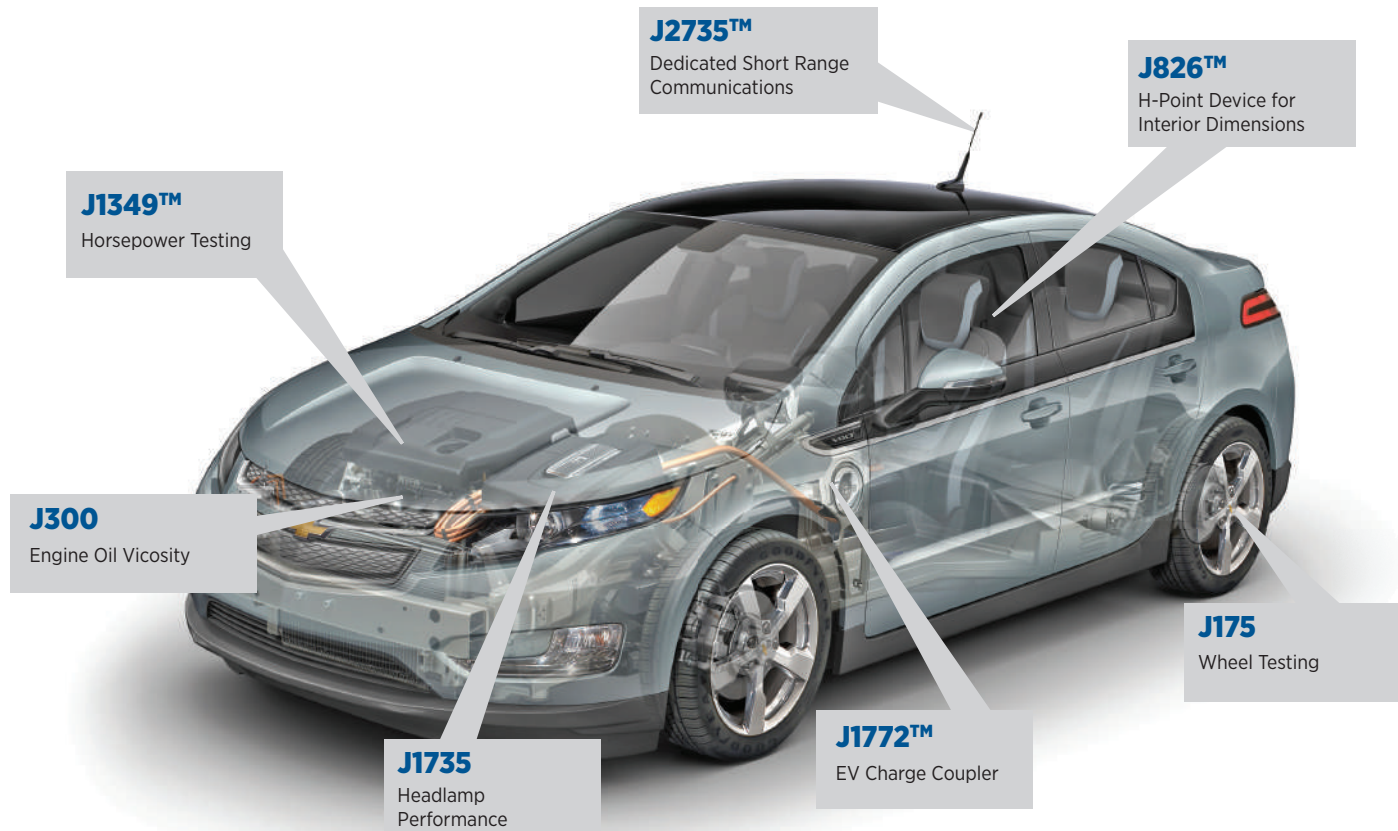
TYPES OF GROUND VEHICLE STANDARDS:

- J-Reports - SAE ground vehicle standards such as J1772™ and J1939™ are internationally recognized for the critical role they play in design, testing, and procurement activities for ground vehicle manufacturers and suppliers around the world.

- USCAR - standards collection developed by the United States Council for Automotive Research, a collaborative technology organization comprised of FCA US LLC, Ford Motor Company and General Motors.

SAE'S PARTNERS IN GLOBAL STANDARDS DEVELOPMENT

SAE is an active partner with other standards development organizations, government agencies, and regulatory bodies collaborating closely to support the newest, most robust, and comprehensive standards/products for a global marketplace.

- Society of Automotive Engineers of Japan
- German Electrical and Electronic Manufacturers Association
- US Federal Highway System
- China Automotive Technology & Research Center
- National Highway Traffic Safety Administration
- US Department of Transportation
- Japan Automobile Research Institute

- US Environmental Protection Agency
- Brasilian National Standards Organization
- American National Standards Institute; US Technical Advisory Group
- The European Telecommunications Standards Institute
- International Organization for Standardization (ISO); US Representative; Secretariat for four ISO TC22 Road Vehicle Committees

GROUND VEHICLE STANDARDS AT WORK

- SAE J1772™ – Electric Vehicle and Plug in Hybrid Electric Vehicle Conductive Charge Coupler- stabilized and unified the global market for EV/PHEV manufacturers and paved the way for future global electromobility.

- SAE's H-Point Machines used in conjunction with J826™, H-Point Machine and Design Tool Procedures and specifications, are required safety certifications tools for production in countries around the world.

- SAE J1939™ standards define a high-speed CAN (ISO 11898-1) communication network that supports real-time, closed-loop control functions, simple information exchanges, and diagnostic data exchanges between electronic control units throughout the vehicle.

- SAE J3061™, Cybersecurity Guidebook for Cyber-Physical Vehicle Standards, is the first ever SAE recommended practice for automotive cyber security.

J2735™
Dedicated Short Range Communications

J826™
H-Point Device for Interior Dimensions

J1349™
Horsepower Testing

J300
Engine Oil Vicosity

J1735
Headlamp Performance

J1772™
EV Charge Coupler

J175
Wheel Testing

J1667
Diesel Smoke Measurement

J2422
Cab Roof Strength

J1939
Serial Control and Communications

J2627
Truck Braking ABS/ECBS

J1321
Fuel Consumption Testing

J2675
Tire Testing

CRP 013
Truck Crashworthiness