



# SURFACE VEHICLE RECOMMENDED PRACTICE

J1939™-73

AUG2022

Issued 1996-02  
Revised 2022-08

Superseding J1939-73 JUN2020

Application Layer - Diagnostics

## RATIONALE

This document has been revised with the following changes:

- Additional diagnostic message and special instructions FMI.
- Additions to document for China IV non road and OBD MY2024 regulations.
- Correction of the MIL activation mode for WWH and EURO VI implementations.

## FOREWORD

The SAE J1939 communications network is defined using a collection of individual SAE J1939 documents based upon the layers of the Open System Interconnect (OSI) model for computer communications architecture. The SAE J1939-73 document defines the SAE J1939 messages for diagnostic services for diagnostic information reporting and diagnostic repair, including services to satisfy regulated OBD requirements.

The SAE J1939 communications network is a high-speed ISO 11898-1 CAN-based communications network that supports real-time closed loop control functions, simple information exchanges, and diagnostic data exchanges between electronic control units (ECUs) physically distributed throughout the vehicle.

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. The physical layer aspects of SAE J1939 reflect its design goal for use in heavy-duty environments. Horizontally integrated vehicles involve the integration of different combinations of loose package components, such as engines and transmissions that are sourced from many different component suppliers. The SAE J1939 common communication architecture strives to offer an open interconnect system that allows the ECUs associated with different component manufacturers to communicate with each other.

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