



ON-BOARD DIAGNOSTICS

The original on-board diagnostics (OBD I) lacked consistency in communication and interface while allowing different interpretations amongst vehicle manufacturers. Ford used several types of engine control computers, Chrysler used several types of data link connectors and GM varied the trouble codes and communication protocols from year-to-year.

The following tables highlight differences for GM, Ford and Chrysler.

GM On-Board Diagnostics

System	Years	Description
OBD I Control Module	1981-1995	Most vehicles used the 12-pin ALDL (Assembly Line Data Link) located under the dash on the driver side. Some 94-95 vehicles used the 16-pin OBD II (J1962) data link connector (DLC), but use the Historical application software. Refer to the vehicle's Vehicle Emission Control Information label.
OBD II Control Module	1994*-Present	Complies with OBD II regulations and uses the J1962 DLC.

**OBD II system used in certain 1994-1995 vehicles equipped with a 2.2L, 2.3L, 3.8L, 4.3L or 5.7L engine.*

Ford On-Board Diagnostics

System	Long Name	Years	Description
MCU	Microprocessor Control Unit	1980-1991	Used in police vehicles, containing carbureted engines. Uses the MCU DLC.
EEC-IV	Electronic Engine Control, Fourth Generation	1984-1995	Most Ford vehicles equipped with North American engines, Uses the EEC-IV DLC.
MECS	Mazda Electronic Control System	1988-1995	Vehicles equipped with Mazda-sourced engines. Uses MECS 6-pin and 17-pin DLCs.
EEC-V	Electronic Engine Control, Fifth Generation	1994*-present	Complies with OBD II regulations and uses the OBD II J1962 DLC.
PTEC	Powertrain Electronic Controller	2000-present	Complies with OBD II regulations and uses the OBD II J1962 DLC.

**EEC-V OBD II system used in 1994-1995 vehicles equipped with a 3.8L or 4.6L engine.*

Chrysler On-Board Diagnostics

System	Long Name	Years	Description
SMEC	Single Module Engine Controller	1989-1990	Used a 6-pin Serial Communication Interface (SCI) DLC and has bidirectional capability.
SBEC	Single Board Engine Controller	1989*-1995	Used two types of DLCs: a 6-pin SCI and a 6-pin LH series. The first to allow a tool to reset the EMR light on trucks.
OBD II PCM	OBD II Powertrain Control Module	1995**-present	Complies with OBD II regulations and uses the OBD II J1962 DLC.
JTEC	Jeep/Truck Engine Controller	1996-present	Complies with OBD II regulations and uses the OBD II J1962 DLC. The JTEC system is used on light-duty trucks and Jeeps.

**In 1989, the SBEC system was installed in selected vehicles with 3.0L V6 engines.*

***Some vehicles in 1995 were equipped with the OBD II PCM.*