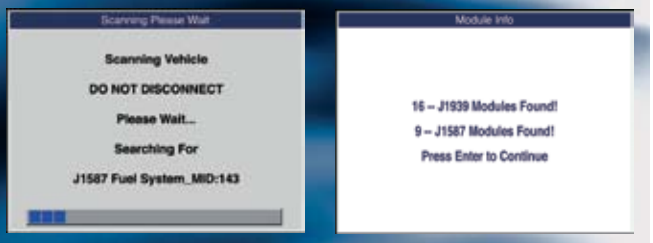
OTC HD Scan Tool™

3417



"Automatic Protocol Search"

No. 3417 – HD Scan Kit Includes:
HD Scan tool, 9 Pin Deutsch Cable, 6 Pin Deutsch Cable, OBD II Cable, Heavy-duty cable, USB Cable, ScanMate software Operations Manual, Carrying Case and 3-Year Warranty.

For Heavy-Duty shops that need a second tool in the shop and for their mobile repair trucks.

Aftermarket general repair shops that need a cost effective solution for Heavy Duty Standard coverage and do not own a Genisys or other family tool.

Features:

- Brilliant Color Display
- Shop rugged enclosure featuring protective rubber over high impact ABS plastic
- Class 4 – Class 8 truck coverage featuring "Automatic Protocol Search".
- HD J1587 / J1708 and J1939 CAN, Engine, Transmission/ABS coverage and more!
- Gasoline and diesel engine coverage.
- Read and clear diagnostic trouble codes.
- Live vehicle data such as:
  - Engine speed
  - Engine ECU temperature
  - Percent acceleration pedal position
  - Engine intercooler temperature
  - Engine coolant temperature
  - Battery volts
  - Alternator volts
  - Ambient air temperature
  - Air inlet temperature
- Global OBD II – All 9 Modes.
- Fast Global OBD II Quick Test
- Supports multiple Global OBD II trouble code requests
- On-screen text and CD-based Manuals in Spanish, French, and English.
- Vehicle data communication and power LED indicators.
- Demo mode permits operation without vehicle connection.
- On-screen definitions of diagnostic trouble codes.
- Trilingual Quick Start Guide included to help technicians get started fixing cars FAST.
- Customize data views in line graph, LED, or digital format with the push of a button.
- Automatic recording of data.
- Three record modes – marker frame, freeze data history, and code triggered record.
- Four software-defined HOT keys.
- Set measurement units in SAE English/Metric.
- Includes six AA batteries for uninterrupted power supply and off-vehicle use.
- ScanMate Windows PC software.
- Internet upgradable.

J1587/J1708 & J1939 Heavy-Duty Standard What does it mean?

SAE J1587/J1708

SAE J1587 is a diagnostic protocol standard developed by the Society of Automotive Engineers (SAE) for heavy-duty and most medium-duty vehicles built after 1985. Up to 1995, individual OEMs used their own connectors. From 1996 to 2001, the 6-pin Deutsch was standard. Beginning in 2001, most OEMs converted to the 9-pin Deutsch. Some OEMs still use the 6-pin Deutsch.

SAE J1708 is an SAE physical specification developed especially for heavy duty vehicles (trucks and busses). The protocol promoted a standard for serial communication between modules with microcontrollers. J1708 describes the physical and data link layer. Almost always used in conjunction with the application layer protocol SAE J1587.

SAE J1939

In the early 90's, the SAE Truck and Bus Control and Communications Sub-committee started the development of a CAN-based application profile for in-vehicle communication in trucks. In 1998 the SAE published the J1939 set of specifications. A J1939 network connects electronic control units (ECU) within a truck and trailer system. The J1939 specification - with its engine, transmission, and brake message definitions - is dedicated to diesel engine applications. **J1939 IS SUPPOSED TO REPLACE J1587 / J1708 NETWORKS.**

SAE J1939 has been adopted widely by diesel engine manufacturers. One driving force behind this is the increasing adoption of the engine Electronic Control Unit (ECU), which provides one method of controlling exhaust gas emissions within US and European standards. Consequently, SAE J1939 can now be found in a range of diesel-powered applications: vehicles (on- and off-road), marine propulsion, power generation and industrial pumping.

Heavy-Duty Standard Software for Class 4 – 8 and Global OBD II soffware for Light Duty Trucks

Category	Class	GVWR2	Representative Vehicles
Light HD Scan Global OBD II	1	0 - 27 kN (0 - 6,000 lbs.)	pickup trucks, ambulances, parcel delivery
	2	27 - 45 kN (6,001 - 10,000 lbs.)	
	3	45 - 62 kN (10,001 - 14,000 lbs.)	
Medium HD Scan Heavy-Duty Software	4	62 - 71 kN (14,001 - 16,000 lbs.)	city cargo van, beverage delivery truck, wrecker, school bus
	5	71 - 87 kN (16,001 - 19,500 lbs.)	
	6	87 - 116 kN (19,501 - 26,000 lbs.)	
	7	116 - 147 kN (26,001 - 33,000 lbs.)	
Heavy HD Scan Heavy-Duty Software	8	147 kN and over (33,00 lbs. and over)	truck tractor, concrete mixer, dump truck, fire truck, city transit bus

Vehicle manufacturers use precise technical definitions and divide trucks into eight classes according to gross vehicle weight rating (GVWR). The table shows vehicle manufacturer truck classifications.