

The next evolution of Heavy-Duty Diagnostics

Pro-Link® GRAPHIQ...

The handheld diagnostic scan tool for engine, transmission, ABS, and more.

- Large VGA sunlight readable color display.
- Graph up to 4 selected parameters to view relationships and trends over time.
- Display 8 lines of data in text mode with Enhanced Pro-Link GRAPHIQ™ software as listed below.*
- Compatible with existing multi-protocol cartridge and standard Pro-Link® software* which displays 4 lines of data as listed below.
- View and graph data points simultaneously.
- Factory-level diagnostic applications:*
 - Proprietary Trouble Codes
 - OEM Data Parameters
 - Advanced Functional Tests
 - Reprogramming

*Applications are sold separately.

The heavy-duty standard application provides the functions necessary to diagnose most SAE/TMC J1708/J1587 OBD electronic control system/engine, transmission, brakes, and instruments.

No. 3104 – Heavy-duty Standard Kit includes: Pro-Link® GRAPHIQ with multi-protocol cartridge, HDS software, PCMCIA card, 6-pin and 9-pin Deutsch cable, data and power cable, manual and carrying case.



Heavy-Duty Standard Lite Link™ Adapter

Key Features:

- Connects PC or PDA to a heavy-duty vehicle data bus.
- Converts J1708 communications to RS-232 serial data.
- Compatible with commercially available RP1210A compliant Windows® based vehicle diagnostic applications.
- Data LED confirms active data transfer.
- Supports PDA vehicle diagnostic applications.
- One-year warranty.

Lite Link™ kit includes:

- Heavy-Duty Standard Lite Link™ adapter
- 15' Null modem cable*
- Driver installation CD and guide
- RP1210A API single-use license (for use with PC or PDA applications)
- 6-pin Deutsch adapter

No. 3103 – Heavy-Duty Standard Lite Link™ Adapter.



USB Link

- Single interface box used for all RP1210A compatible OEM PC applications.
- Easy USB connectivity
- Flexible configuration supports wired or wireless connectivity via Bluetooth.
- Supports Windows 2000 and XP.
- CE compliant.



No. 3101-78 – USB link

Pro-Link Plus Heavy-Duty Starter Kit

- Use with heavy-duty cartridges and PCMCIA cards.
- RS-232 serial port for connectivity to SpectraGas™, printer, or PC.
- Provides real-time vehicle data.
- On-screen trouble code definitions.
- Easy-to-use menus and message screens.
- 4-line, 20 character per line LCD display.



No. 3101 – Pro-Link Plus Heavy-Duty Starter Kit.

Brake-Link™ Hand-Held Diagnostic Trailer Brake Tool

Brake-Link™ ABS Coverage:

- Bendix EC-17, EC-30, and EC-30T
- Meritor WABCO Easy-Stop and Enhanced Easy-Stop
- Wabash National MBS-1P and MBS-2
- Eaton GEN4 and GEN5
- Haldex PLC, PLC Plus, and PLC Select

Benefits Convenient Testing of the Following:

- Actuate modulators and valves
- Cycling of the brake retarder relays
- Testing of battery voltage
- Retrieval of ECU information
- Read trailer odometer/trip distance
- Trailer ABS system with PLC communications
- Auto-detects the OEM's ECU system configuration
- View and clear current and historic faults
- Wheel sensor testing and traction disabling
- Testing of the trailer's ABS "Test Warning Lamp"

No. 3106 – Brake-Link™ Hand-Held Diagnostic Trailer Brake Tool, includes all cables and connectors required.



Heavy-Duty Scan Standard

Featuring:

- Class 4 – Class 8 truck coverage.
- HD J1587 / J1708 and J1939 CAN, Engine, Transmission/ABS coverage and more!
- 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
- View and clear diagnostic trouble codes.
- Windows PC software.

Applications:

Tow trucks, recreational vehicles, cement trucks, dump trucks, garbage trucks, buses, step vans, municipal vehicles, refrigerated trucks, and conventional trucks.

Heavy-Duty Scan Targets Class 4–8 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.

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 buses). 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.

Genisys Heavy-Duty Standard Deluxe Kit with System 3.0

Includes Genisys scan tool, OBD II Smart Cable, Automated System Test™, Heavy-Duty Standard software, USA 2007 Domestic with Pathfinder, Repair-Trac™, Fast fixes™, USA 2007 Asian, InfoTech 2006, USA 2004 ABS/Air Bag software, manuals, adapters, and domestic OBD I vehicle cables (for GM, Ford, Chrysler, Jeep, Saturn), and carrying case.

No. 3860HD – Genisys Heavy-Duty Standard Deluxe Kit.

(USA Asian OBD I cables not included; see Kit No. 3421-94.)
(USA ABS/Air Bag cables not included; see Kit No. 3421-54.)

Genisys Heavy-Duty Starter Kit

Genisys Heavy-Duty Standard software includes J1587/1708 and J1939 CAN communications.

Kit includes 9-pin Deutsch cable, 6-pin Deutsch cable, heavy-duty System Smart Insert, Smart Card, and PC software CD.

No. 3421-79 – Genisys Heavy-Duty Starter Kit.

IMPORTANT NOTE: System 3.0 recommended; see No. 3421-97, minimum requirement system 2.0



Heavy-Duty Code Reader

The perfect tool for:

Technicians that need a fast "Toolbox Tool" to read and clear heavy-duty DTC's, heavy-duty shops that need a second tool in the shop and for their mobile repair trucks, or aftermarket general repair shops that are looking for a cost effective solution for Heavy-Duty Standard coverage.

Features:

Class 4 – 8 truck coverage.

HD J1587 / J1708 and J1939 CAN, Engine, Transmission/ABS coverage and more for diagnostic trouble codes!

Read and clear diagnostic trouble codes.

Provides on screen DTC definitions for heavy-duty standard codes.

Battery powered for off vehicle use.

Internet update capable.

Applications:

Tow trucks, recreational vehicles, cement trucks, dump trucks, garbage trucks, buses, step vans, municipal vehicles, refrigerated trucks, and conventional trucks.

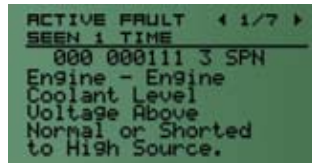
Don't forget Heavy-Duty Standard compliant construction, marine, agriculture, and other industrial diesel power plant configurations!

No. 3418 – HD Reader Kit Includes:

- 3-year warranty
- HD Reader tool
- 9 Pin Deutsch cable
- 6 Pin Deutsch cable
- Operations manual
- Soft nylon carrying case



Menu



Fault



Summary



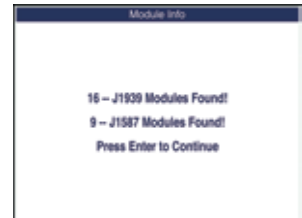
Heavy-Duty Scan

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.
- Class 4 – Class 8 truck coverage featuring "Automatic Protocol Search".
- HD J1587 / J1708 and J1939 CAN, Engine, Transmission/ABS coverage.
- Gasoline and diesel engine coverage.
- Read and clear diagnostic trouble codes.
- Live vehicle data such as:
 - Engine speed
 - Engine ECU temp.
 - Percent acceleration pedal position
 - Engine intercooler temp.
 - Engine coolant temp.
 - Battery volts
 - Alternator volts
 - Ambient air temp.
 - Air inlet temp.



"Automatic Protocol Search"

- Global OBD II – All 9 Modes.
- Fast Global OBD II Quick Test
- 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.
- Customize data views in line graph, LED, or digital format with the push of a button.
- Three record modes – marker frame, freeze data history, and code triggered record.
- Includes six AA batteries for uninterrupted power supply and off-vehicle use.
- ScanMate Windows PC software.
- Internet upgradable.



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.

Sabre Heavy-Duty Battery and Electrical System Diagnostic Tester

- Heavy-duty for 24-volt battery and electrical systems.
- Diagnoses battery packs in series, parallel, or series/parallel.
- Tests AGM/gel-cell batteries.
- HIGHEST CCA capacity ranges (50–4000 CCA – 24V).

Battery Testing

- Tests the following battery pack configurations:
 - One battery (6V or 12V).
 - Two batteries in series (24V); 2, 3, or 4 batteries in parallel (12V).
 - Two banks in parallel, each bank having 2 batteries in series (24V).

- Uses pack configuration in algorithm design.
- Tester-applied loads used on all pack combinations.

Electrical System Testing

- 12V and 24V charging and starting system tests.
- 12V and 24V diode tests.
- Amp-clamps available (not included) for starting/charging and current draw tests.

Features

Amp-Clamp Connection – allows current drain tests and starting/charging analysis.

Tests Both FLA (flooded lead acid) and **AGM** (absorbed glass mat) battery types.

Scales – CCA, CA, AHR, MCA, JIS, DIN

User Definable – print header and footer.

Removable Test Cables – easily field replaceable.

PC Interface Port – allows for field updateable software.

IR Compatible – allows optional infrared wireless printer.

Readout Display – backlit for low light conditions, easy to view data in direct sunlight (4 x 20 character display).

Security Cable Connection – protects against stolen or dropped units.

Over-molded Surround with Soft-touch Keys – ruggedly built, easy to use, even with gloves.



No. 3168-HD

No. 3167-HD – Sabre HD deluxe kit includes 24-volt heavy-duty battery tester, 15' test leads, instruction manual, molded-plastic carrying case.

No. 3168-HD – Same as No. 3167-HD above, but also includes an infrared wireless printer.

Accessories:

No. 3172-15 – 15' lead set.

No. 3169 – Infrared wireless printer.

No. 3173 – Low-range amp probe (current drain tests).

No. 3174 – High-range amp probe (starting/charging test).

130-Amp Heavy-Duty Battery Load Tester

Applying an industry-leading 130-amp load, this ergonomically designed, heavy-duty battery tester provides accurate, reliable test results in just 10 seconds. It includes uniquely designed clamps for a positive grip on top- and side-post batteries and an extra-large, easy-to-read display.

Features and Benefits

- 0–16 volt range.
- 130-amp load capacity for accurate results.
- Extra-large display with zero adjust.
- Works on both 6V and 12V batteries.
- Uniquely designed clamps for both top- and side-post batteries.
- Side tabs for on-tool clamp storage.

No. 3181 – 130 Amp Heavy-Duty Battery Load Tester.



OTC Magnetic Induction Heater System

- Fast, effortless removal of glass, emblems, bonded body components, rusty bolts and much more.
- Flameless heat reduces the need for torches, solvents and abrasives.
- Less flame and solvents reduces potential safety hazards and insurance rates.
- Only heats metal objects, enabling it to be used in or near heat-sensitive areas.
- Wide range of heating inductors for increased versatility.
- Easy-to-read heat output meter to quickly verify induction heat.
- Output isolation transformer provides the safest possible operation.
- CE and CSA approval with UL compliance offers proof of OTC 6650 quality construction and safety design.

No. 6650 – OTC Magnetic Induction Heater System.



Optional Hail Dent Inductor – No. 543036

The hail dent inductor is an heating attachment that allows technicians to remove soft dents by heating the panel behind the paint, relieving the stress holding the dent, thus reducing its size or eliminating it all together.



Optional Frame Inductor – No. 545057

The frame inductor is capable of heating 1/4" steel plate cherry red (1400F) in just a few seconds, and mildly heating aluminum for stress relieving automotive frame rails and structural panels. The safe electromagnetically induced heat is very focused and limited to the immediate area where the frame inductor is applied. This allows technicians to work near sensitive components such as wires, hoses, and other items that are easily damaged by the open flame of a torch or rosebud.

