

#### **Features:**

- · Specifically Designed for the Heavy-Duty/Commercial Fleet Market
  - Battery pack testing for effective preventive maintenance testing
  - Multiple battery routine: 1-6 batteries included in the test process
  - Special commercial battery algorithms
- Truck vs. automotive selection sets application-specific test parameters for system and cable drop testing
- New Dynamic Conductance Battery Testing Technology
- · Advanced Electrical System Diagnostics featuring Digital Signal Processing
- · DMM Function for Advanced Diagnostics
- Patented Conductance Cable Drop Test
- Enhanced Communications Capabilities
- · Advanced User Interface
- Program Management Tools











**QUALITY** 





# **EXP-1000HD for Commercial Fleets**

# Specially Designed for the HD/Commercial Fleet Market

- Battery pack testing for effective preventive maintenance testing
- Multiple battery routine:
   1-6 batteries included in the test process and on the printed test report
- Special commercial battery algorithms for Group 31 batteries, 8D, and 4D batteries
- Truck vs. automotive selection sets application-specific test parameters for system and cable drop testing

# New Dynamic Conductance Battery Testing Technology

 Combines direct temperature measurement with deep scan technology to improve accuracy and decisiveness

# Advanced Electrical System Diagnostics Featuring Digital Signal Processing

Digital Signal Processing (DSP)
 provides the ability to analyze
 the amplitude level and frequency
 of the diode ripple pattern
 for improved accuracy and
 identification of open or shorted
 diodes and open-phase
 conditions, (multiple diode
 failure or winding problems).

## DMM Function for Advanced Diagnostics

- AC/DC Volts
- Temperature
- AC/DC Amps
- · Ohm meter
- Diode test
- Scope mode
- · Volts/Amps mode

### Patented Conductance Cable Drop Test

 Interactive routines using dual cable sets for more effective analysis of voltage drop across chassis ground, starter system, alternator system, and generic system testing

# Enhanced Communications Capabilities

- · IR printer option
- Data card reader/writer for future upgrades

#### **Advanced User Interface**

- Large graphical screen for icons and improved explanations
- Scroll bar capability means fewer overall screens
- Icon-based menus, and hot keys improve logic and flow

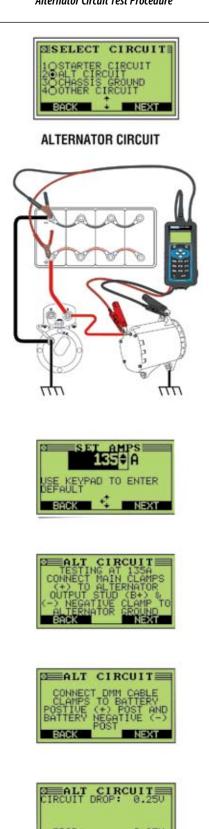
### **Program Management Tools**

- User ID system to help drive and manage product use
- Enhanced counters report testing data, including lifetime use, results dispersion, and number of tests by user ID

Perform preventive maintenance testing in less than five minutes to reduce operating costs and increase the reliability of your fleet.



Alternator Circuit Test Procedure



# **EXP-1000HD Features**





Test Report

1000 ANY ST.
YOUR TOWN, STATE
60527
USA
800-555-1212
WEBSITE.COM
SHOP ID NUMBER

10/03/2007 3:12 PM

PACK TEST



BATTERY 1 12,610 499 CCA

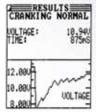
12,610 496 CCA GOOD BATTERY

BATTERY 3 12.610 505 CCA GOOD BATTERY

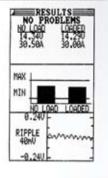
B<u>ATTERY 4</u> 12,620 400 CCA REPLACE BATTERY



STARTER TEST



CHARGING SYSTEM TEST







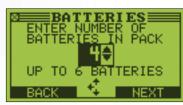


## **More Functions and Expandability**

From battery, starter, and alternator diagnostics to circuit integrity testing, the EXP-1000HD is the most versatile and reliable electrical diagnostic tool on the market today.

With the ability to perform more tests with one tool, you can be more efficient, cut costs, and easily update to the newest technologies.

Specific testing such as battery pack tests and expanded cable drop circuit tests, are targeted directly at the heavy-duty/commercial fleet market.



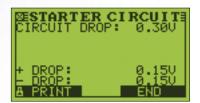
Test 1-6 batteries



Battery pack test results

# **Full System Reporting**

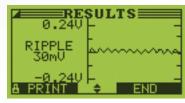
The EXP-1000HD combines battery testing, starter and charging system diagnostics all-in-one complete report, including results from individual battery tests and pack tests.



Cable drop test results

# **Digital Signal Processing (DSP) Capability**

For advanced alternator diagnostics the EXP-1000HD uses superior DSP capability to digitize the measured alternator output voltage and evaluate the spectral content of the signal. This digitized signal allows the EXP-1000HD to combine pattern recognition with the amplitude level of the AC signal for improved accuracy and identification of open or shorted diodes and open phase conditions, (multiple diode failure or winding problems).



Charging system test results; ripple current



# **EXP-1000HD**

# **Expandable Electrical Diagnostic Platform Analyzer for Commercial/Fleet Vehicles**

# **Specifications:**

#### Model:

- EXP–1000HD Heavy-duty battery and system analyzer with, 15' battery test cable, DMM clamps and probes, carrying case, and stud adapters
- EXP–1000HD KIT Heavy-duty battery and system analyzer with, 15' battery test cable, IR printer, DMM clamps and probes, carrying case, and stud adapters
- EXP–1000HD AMP Heavy-duty battery and system analyzer with, 15' battery test cable, amp clamp, DMM clamps and probes, carrying case, and stud adapters
- EXP–1000HD AMP KIT Heavy-duty battery and system analyzer with, 15' battery test cable, IR printer, amp clamp, DMM clamps and probes, carrying case, and stud adapters

#### **Applications:**

- 6 and 12 volt HD-commercial, automotive and marine battery testing (including AGM batteries)
- 12 and 24 volt charging system diagnostics

#### **Power Requirements:**

• (6) AA Alkaline batteries

### **Operating Range:**

- 6 and 12 volt batteries
- 1-6 battery pack test
- 1-6 individual battery testing

<b>Rating System</b>	Range
CCA	200 – 3000
JIS	By JIS number
DIN	100 – 1000
SAE	100 – 3000
IEC	100 – 1000
EN	100 – 3000

#### Display:

• 128 x 64 pixel graphics, backlit display

#### **Temperature Compensation:**

• Built–in temperature measurement when prompted by analyzer

### **Operating Temperature:**

• 32° F – 120° F (0° C – 49° C)

#### **Test Leads**

 15 ft cable with HD dual conductor Kelvin clamps

# **Housing Material:**

· ABS plastic with Santoprene overmolds

#### **Dimensions:**

• 9.5 in H x 4 in W x 2.5 in D

#### Weight:

• 1 lb / 427 g

#### **Carrying Case:**

· Heavy-duty molded plastic

#### Languages:

- English
- Spanish
- · French-Canadian



Every EXP-1000HD model includes a protective molded hard-side carrying case. Regardless of which configuration you choose, the carrying case will hold all accessories, with room for future options.



Printer Batteries
Printer Paper

DMM Probes

Printer Charge Adapter IR Printer

EXP-1000HD Analyzer

Corporate Headquarters

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