

The EXP–1000 HD was designed specifically for the Heavy-Duty and Fleet markets . With the latest advances in battery testing technology and improved electrical system testing, the EXP–1000 HD features:

#### More Functions and Expandability

From battery, starter, and alternator diagnostics to circuit integrity testing, the EXP-1000HD is a versatile and reliable electrical diagnostic tool. With the ability to perform more tests with one tool, you can be more efficient, cut costs, and easily update to the newest technologies.

## Specially Designed for HD/ Commercial Fleet Market

- Battery pack testing for effective preventative maintenance testing
- Multiple battery routine:
  1-6 batteries included in the test process and on the printed report
- Special commercial battery algorithms for Group 31, 8D, and 4D batteries

#### **Battery Testing Technology**

Midtronics Patented dynamic conductive testing technology combines direct temperature measurement with deep scan technology to generate more accurate decisions

# Advanced Electrical System Diagnostics

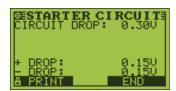
Digital Signal Processing (DSP) analyzes the amplitude level and frequency of the diode ripple pattern to improve accuracy and identify open or shorted diodes and open-phase conditions

#### **Conductance Cable Drop Test**

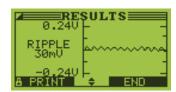
Interactive routines using dual cable sets for more effective analysis of voltage drop across chassis ground, starter system, alternator system, and generic system testing



Test 1-6 batterie



Cable drop test results



Charging system test results; ripple current



# **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

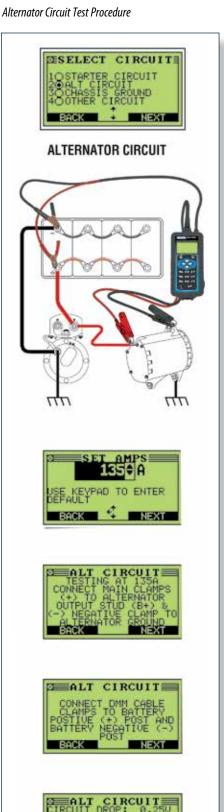
- Large graphical screen for icons and improved explanations
- · Scroll bar capability means fewer overall screens
- Icon-based menus, and hot keys improve logic and flow

### **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.





## **EXP-1000HD Features**





#### Test Report

YOUR SHOP NAME 1000 ANY ST. YOUR TOWN, STATE 80527 USA 800-555-1212 WEBSITE.COM SHOP ID NUMBER

> 10/03/2007 3:12 PM







#### PACK TEST





BATTERY 4 12,620 400 CCA



## **More Functions and Expandability**

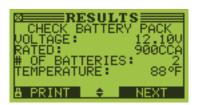
From battery, starter, and alternator diagnostics to circuit integrity testing, the EXP-1000HD is the most versatile and reliable electrical diagnostic tool on the market today.

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.

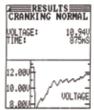


Test 1-6 batteries



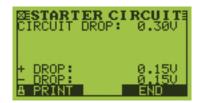
Battery pack test results

### STARTER TEST



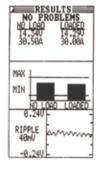
## **Full System Reporting**

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.



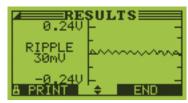
Cable drop test results

#### CHARGING SYSTEM TEST



## **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

Sample Printout

## **EXP-1000 HD**

## **Expandable Electrical Diagnostic Analyzer Platform**

## **Specifications:**

Model:

EXP-1000 HD EXP-1000 HD Analyzer, 10-ft cable

> set/standard clamps, lead stud adapter set, carrying case

Everything included with EXP-1000HD EXP-1000 HD plus infrared printer KIT

**EXP-1000 HD** EXP-1000 HD Analyzer, 10-ft cable set/ standard clamps, lead stud adapter kit **AMP** 

> carrying case, amp clamp, DMM adapter & probe kit, 10-ft DMM

cable assembly

EXP-1000 HD Everything included with AMP KIT

EXP-1000 HD AMP, plus infrared printer

#### **Applications:**

- · 6 and 12 volt HD-commercial, all battery chemistries
- 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

#### **Rating System 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**

• 10 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:

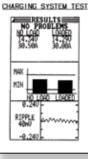
 English French-Canadian Spanish



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.





#### **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.

