



Motor Magazine
Top 20 Tools
Award Winner

EXP-1000

Expandable Electrical Diagnostic Platform

ADVANCED DIAGNOSTICS

Combining the full functions of an advanced analyzer, digital multimeter, and data management tool...

Features:

Dynamic Conductance Battery Testing Technology

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

Advanced Electrical System Diagnostics with Digital Signal Processing

- Digital Signal Processing (DSP) delivers improved accuracy and the ability to analyze the amplitude level and frequency of the ripple pattern to identify open or shorted diodes and open-phase conditions

DMM Function for Advanced Diagnostics

- AC/DC Volts
- AC/DC Amps
- Volts/Amps Mode
- Scope Mode
- Temperature
- Diode Test
- Ohm Meter

Patented Conductance Cable Drop Test

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

Enhanced Communications Capabilities

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

Superior User Interface

- Large graphical display screen
- Scroll bar capability
- Alphanumeric keypad, icon-based menus and hot keys improve screen flow



With the EXP-1000 you can diagnose every part of the electrical system; battery to starter to alternator, more accurately and decisively than ever before.





Dynamic Conductance Technology

Breakthrough battery testing technology from Midtronics delivers improved battery testing accuracy and decisiveness



Direct Temperature Measurement

Creates a third dimension to the Midtronics battery test algorithms, improving decisiveness and making all decisions more accurate.



Deep Scan Testing

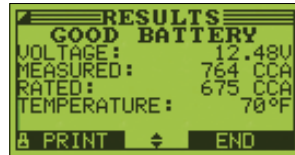
Uses multiple frequencies and test points on deeply discharged batteries so customers can avoid charging batteries with shorted, open, or bad cells.



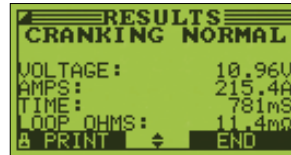
EXP-1000

ENHANCED DIAGNOSTICS

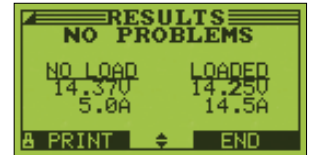
Battery



Starter



Alternator



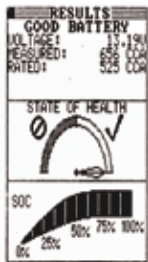
EXPI000

Test Report

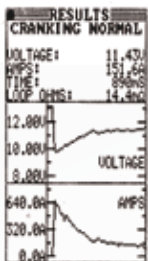
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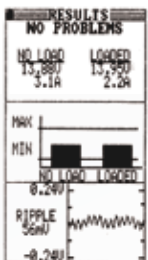
BATTERY TEST



STARTER TEST



CHARGING SYSTEM TEST



RECEIVE 10% OFF
ANY BATTERY,
ELECTRICAL
SERVICE, OR PARTS
PURCHASE WITHIN
THE NEXT 90 DAYS
WITH THIS RECEIPT



More Functions and Expandability

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



Enhanced Starter Diagnostics

Using the optional amp clamp provides an enhanced level of diagnostics beyond just starter voltage drop. The EXP starter diagnostics include starter amps draw, voltage drop, start time, and starter circuit resistance to deliver more accurate results.



Digital Signal Processing Capability

For advanced alternator diagnostics, the EXP uses DSP capability to digitize the measured alternator output voltage and evaluate the spectral content of the signal. This digitized signal allows the EXP 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).

Specifications:



EXP-1000 BASIC

Model:

- EXP-1000 BASIC: EXP-1000 Analyzer, 10-ft Cable Set, Standard Clamps and Lead Stud Adapter Kit
- EXP-1000: Everything included with the EXP-1000 BASIC with the addition of a Carrying Case
- EXP-1000 KIT: Everything included with the EXP-1000 BASIC with the addition of a Carrying Case and an IR Printer
- EXP-1000 AMP: EXP-1000 Analyzer, 10-ft Cable Set, Standard Clamps, Lead Stud Adapter Kit, Amp Clamp, DIMM Adapter & Probe Kit, 10-ft DIMM Cable Assembly and a Carrying Case
- EXP-1000 AMP KIT: Everything included with the EXP-1000 AMP with the addition of an IR Printer

Applications:

- Tests 6- and 12-volt automotive and marine batteries (including AGM batteries)
- 12-volt charging system diagnostics

Power Requirements:

- (6) AA Alkaline batteries

Operating Range:

- 6- and 12-volt batteries

Rating System	Range
CCA	100–3000
CA	100–3000
MCA	100–3000
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 dual conductor Kelvin clamps

Housing Material:

- ABS plastic with Santopreen overmolds

Dimensions:

- 9.5 in H x 4 in W x 2.5 in D

Weight:

- 1 lb / 427 g

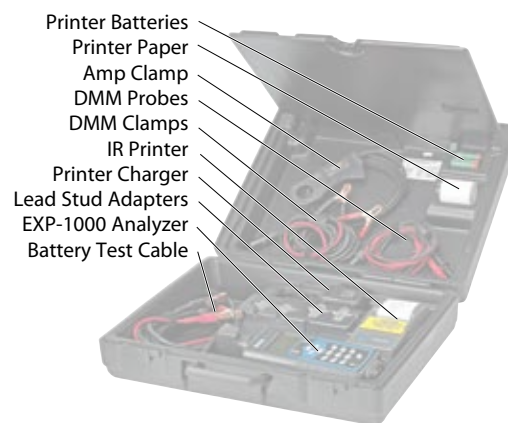
Carrying Case:

- Heavy-duty molded plastic

Languages:

- English
- Spanish
- French-Canadian

DMM Function	Range	Tolerance
DC Voltage	0–60 V	0.05% + 2 VDC
AC Voltage	0–24 V	0.1% + 3 VAC
Resistance	10 ohm–2 Mohm	2.0% + 4
DC and AC Amps	0–70 A	+/- 3% of reading +/- 1 A
	0–700 A	+/- 3% of reading +/- 1 A
Continuity	< 10 ohm	2.0% + 4 ohm
Diode	0–1.5 V	0.05% + 2 V
Temperature	-20–200°F	1.0% + 5



Most EXP models include a protective molded hard-side carrying case. This case will hold all of the accessories that come with your tool, with space for future added options.

Corporate Headquarters

Willowbrook, IL USA

Phone: 1.630.323.2800

Toll Free in US: 1.800.776.1995

Toll-Free in Canada: 1.866.592-8053

European Sales

Midtronics b.v.

European Headquarters

Houten, The Netherlands

Serving Europe, Africa, the Middle East, and The Netherlands

Phone: +31 306 868 150

Midtronics China Office

China Operations

Shenzhen, China

Phone: +86 755 8202 2036

Asia/Pacific (excluding China)

Contact Corporate Headquarters

Phone: +1.630.323.2800

Midtronics India

Mumbai, India

Phone: +91.989 237 6661