

GR8-1200

MIDTRONICS

Advancing
Battery Management



*Motor Magazine
Top 20 Tools
Award Winner*

GR8-1200 Multi-tasking Battery and Electrical System Diagnostic Workstation

WIRELESS SYSTEM ANALYSIS AND DIAGNOSTIC CHARGING

The GR8-1200 Multi-tasking Battery and Electrical Diagnostic Station combines the diagnostic charging expertise of the GR8 with EXP Battery and Electrical System Diagnostics to create a complete, flexible and expandable diagnostic station.

The GR8-1200 features the innovative Multi-tasking Bridge, which allows users to perform battery and electrical diagnostics on other vehicles while the charger is in use.

That means you can effectively multi-task in the garage, and get more value out of one complete diagnostic station.

Simply connect the test clamps to perform a full battery and electrical system analysis. If the battery needs charging, connect the charger clamps and the GR8 takes over.

If you have more work to do while the battery is being charged, remove the EXP-1200 controller from the cart and take it to work on the other side of the garage. When the GR8 finishes the job, the Multi-tasking Bridge provides LED and audible alarms so that you can wirelessly send the results from the bridge to the controller to view or print.



GR8-1200 Provides:

- *Wireless Multi-tasking*
- *EXP Battery and Electrical Diagnostic Capability*
- *GR8 Diagnostic Charging Functionality*

GR8-1200

GR8 Diagnostic Charging Functionality



GR8 Wireless Multi-tasker

Diagnostic Charging Mode

- Quickly assesses deeply discharged batteries and recharges only the good ones
- Combines Dynamic Conductance Technology with advanced charge control to provide fast and accurate results
- MOSFET Soft Switch Charging Technology
- Integrated temperature sensor improves safety and diagnostic charging capabilities
- Isolated load test capabilities allow testing and charging of small and large batteries
- Recovery charge mode helps recover hard-to-charge batteries
- Top-off charging lets you trickle charge batteries when desired
- Multiple diagnostic/charging algorithms including AGM/spiral batteries

ECM - Power Supply Model

- Tests and maintains battery voltage at 13.5 volts for reliable ECM reprogramming and to maintain the battery during complex diagnostics

Jump-start Mode

- Provides boost charge and 245 amp automated Jump-start routine

Manual Mode

- User-defined charging parameters

Improve Customer Satisfaction

- Reduce and eliminate no-start situations by verifying that the battery and electrical system are in working order during preventative maintenance work
- Quickly fix battery problems in one visit

Improve Bottom Line

- Eliminate costly replacement of good batteries
- Free technicians for more profitable tasks
- Get the most from your diagnostic investment by multi-tasking
- Recover batteries quickly & eliminate wasted time trying to charge bad batteries
- Combined diagnostic capabilities quickly service any electrical problem



Flexible Design for Maximum Utility

- Integrated, roll-around cart puts the controls at the user's level
- Removable controller provides flexibility and isolates key electronics away from the heat associated with battery charging
- Provides service and repair flexibility
- Field-replaceable test and charging cables offer maximum service flexibility

Multi-tasking Battery and Electrical System Diagnostic Workstation

Wireless Multi-Tasking

Multi-tasking means that full electrical diagnostics are available for other vehicles while the diagnostic charger function is in process.

If a battery needs charging, connect the charger clamps and the diagnostic charge engine will automatically complete the job.

Remove the controller to perform electrical diagnostics on other vehicles while the charging/power supply functions are in use.

When the charging session is done, you can upload the session results wirelessly from the diagnostic charge engine to the controller for review or printing.

Advanced Communications

- Large back-lit graphical screen
- Full alphanumeric keypad and hot keys
- USB port
- Data card reader/writer for simple in-field upgrades and data storage
- Optional integrated printer

Maximum Service Flexibility

Combines full EXP and GR8 functions with wireless multi-tasking to provide maximum flexibility and efficiency. Allows the user to quickly and easily perform all battery and electrical diagnostics.



From the main menu, when the diagnostic charging icon is highlighted, the EXP controller shows that the GR8 is in use



Selecting the diagnostic charging icon causes the EXP controller to communicate to the charger for a status report on the current charging session



After making the connection, the user can remotely check or monitor the charging session status and details

EXP Battery and Electrical Diagnostic Capability



Dynamic Conductance Battery Testing Technology

- Combines direct temperature measurement with deep scan technology to improve diagnostics

Advanced Electrical System Diagnostics Featuring Digital Signal Processing (DSP)

- Analyzes the amplitude level and frequency of the ripple pattern to improve accuracy and identify open or shorted diodes and open-phase conditions

DMM Functionality for Advanced Diagnostics

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

Patented Conductance Cable Drop Test

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



Use your smartphone QR scanner app to read this code to learn more about Diagnostic Charging



GR8-1200

Multi-tasking Battery and Electrical System Diagnostic Workstation

SPECIFICATIONS:

Models

GR8-1200 AMP

Includes EXP controller, GR8 Diagnostic Charger with integrated cart, Wireless Multi-tasker, (2) Serial Cables, Charging Cables, 10-ft. Test Cables, Amp Clamp, and Stud Adapters

GR8-1200 AMP KIT

GR8-1200 AMP with Integrated Printer

Accessories

- A018 Inductive Amp Clamp
- A028 DMM leads, 10' Cable Assembly with Clamps
- A095 6-Pack Thermal Paper
- A126 DMM Adapter & Probe Kit
- A128 Control Module Update Cable
- A129 Replacement Charger Cable Set
- A136 1-ft. DB9 Serial Cable
- A141 Printer Assembly
- A152 10' Replacement Cable with Standard Clamps
- A185 10' Replacement Cable with Heavy-Duty Clamps
- A224 Plastic Printer Roller replacement
- A303 Replacement Fused Cable

Applications

- 12 volt batteries
- 12+24 volt charging systems

Battery Test Leads

- 10' removable with Kelvin clamps

Charger Leads

- 6' removable Heavy Duty Kelvin Charge Clamps

Display

- 128 x 64 pixel graphics, backlit display

Battery Test Range

For 12 volt batteries:

- | | | |
|--------------------|--------------------|--------------------|
| • 100-3000 CCA | • 100-1000 A (DIN) | • 100-3000 CA |
| • 100-3000 A (SAE) | • 100-3000 MCA | • 100-1000 A (IEC) |
| • JIS by Number | • 100-3000 A (EN) | |

Charging Voltage

- Up to 17 volts, 0.1V resolution (12 volt batteries)

Charging Current

- 0-60 amps, 1 amp resolution
- 80 amps peak
- 245 amps for cranking assistance (jump start)

Temperature Measurement

- EXP IR Sensor: -20° F – 200° F
- Charger Clamp Sensor: -20° F – 200° F

Power Inputs: (charger)

- 110V, 60 Hz, 15-amp dedicated circuit

Operating Temperature

- 32° F – 120° F (0° C – 49° C)

Charger



CUL Listed

Languages

- English
- French-Canadian
- Spanish

Shipping Package

- 30" x 30" pallet
- 42" tall
- 110 lbs



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