<u>MID TRONICS</u>

Advancing Battery Management

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DCA-8000

New vehicles. New batteries. New challenges.

DYNAMIC DIAGNOSTIC CHARGING SYSTEM

Advanced diagnostic charging system featuring breakthrough core technology

Rapid decisions:

Increases diagnostic speed generating most battery decisions in five minutes or less.

Greater accuracy:

Comprehensive detection diagnostics assess a range of additional battery conditions – including charge acceptance, defect and degradation, cold battery, deep discharge, stratification, and internal battery temperature to deliver a comprehensive picture of battery condition.

Support for advanced vehicle systems:

Assesses battery ability to support optimal operation of start-stop, regenerative braking, and variable output alternators; future technologies managed via regular software updates.

As the complexity of battery and electrical systems continue to evolve, your diagnostic technology must be able to keep pace.

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- New battery chemistries, types and construction
- Advanced power management systems
- Greater demand on batteries to support vehicle electronics and accessories

DCA-8000 Features

- 5" color touchscreen: More information and graphics on screen
- New Midtronics User Interface design: Consistent look and feel across all Midtronics equipment, minimizing training time
- Simple functional flow:
 Fewer screens & steps to reduce potential confusion points for the technician
- Dual temperature sensors: Improved temperature accuracy and cold battery detection
- Field-replaceable cables: In standard 3m or optional 5m lengths
- Wi-Fi capability: Supports charge data transmission and automatic over-the-air software updates

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In Vehicle Test

DCA-8000 DYNAMIC DIAGNOST

Locking input /output cables: Reduce accidental disconnections

Self-diagnostics:

Provides users with proactive tool performance warnings; such as cable degradation, internal component malfunction, etc.

BMIS integration:

BMIS is a cloud-based platform that supports battery service data storage, data sharing among BMIS-capable devices, equipment software updates, and flexible analytical and reporting options.

Available as an optional subscription service.

Customer communication:

Email diagnostic results to customers, or print hard-copy results via optional integrated printer

VIN capture options:

Optional barcode scanner, optional CVG convergence module, integration with DSS-5000 Battery Diagnostic Service System, or manual entry

Optional cart:

Large back wheels, pivoting front wheels, and a full-width push handle improve mobility in the shop environment

How the DCA-8000 Evaluates TRUE BATTERY CONDITION

The charge process is monitored throughout and discontinued immediately if at any point a battery is determined to be unrecoverable due to physical faults, etc. Most decisions are generated in 5 minutes or less.

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STEP 1: Conductance

Action	Measures a battery's ability to crank the engine
Time Required	5 seconds
Total Time	5 seconds
Elapsed	



STEP 2: Conductance Profiling™

Action	Measures a battery's ability to supply power over time
me Required	55 seconds
Total Time Elapsed	1 minute



STEP 3: Dynamic Charge Acceptance

Action	Measures a battery's ability	
	to accept charge current	
Time Required	60 seconds	
Total Time	2 minutes	
Elapsed		



STEP 4: Further Diagnostics

Action	Load test, recovery charge, and monitoring
Time Required	3 minutes
Total Time Elapsed	5 minutes

Since pioneering a new global standard with conductance technology over 30 years ago, Midtronics has focused on battery management innovation.

Our two newest patented battery service technologies expand and enhance modern battery service:

Conductance Profiling[™]

- Combines our conductance algorithm with new proprietary technology
- Identifies batteries with poor reserve capacity that may start the car, but could fail to support other vehicle accessories
- Ensures service readiness for emerging vehicle systems, batteries, and new points of battery failure

Dynamic Charge Acceptance™

- Combined with Conductance Profiling[™], enables quick and accurate battery diagnosis, avoiding time wasted charging bad batteries
- Mimics the start event with a large load, then applies a charge for a short period time
- Performs critical diagnostics to verify battery can support start-stop applications

Product Specifications	Model: DCA-8000 Dynamic Diagn	ostic Charging System
Charge Cables3m (standard)5m (optional)	 Power Cord Accepts locking C19 locking connector for region-specific power cables: United States: NEMA 5-15 termination, rated at 15A/125V UL CSA 	
ApplicationsAutomotivePower SportsMarine	 Battery Chemistries Flooded lead acid AGM (flat and spiral) EFB Gel Li-ion 	Rating System· CCA· SAE· CA· IEC· MCA· EN· JIS· EN2· DIN
 Operating Parameters Input Voltage: 100-240~, 50-60 Hz, 12A maximum Output: 12VDC; 70A maximum 	 Temperature Operating temperature range: 0°C to +60°C (32°F to +140°F) Storage temperature range: -10°C to + 85°C (14°F to 185°F) Humidity 15% to 85% R.H., non-condensing 	 Dimensions Height: 9.37" in (23.8 cm) Width: 17.25" in (43.81 cm) Depth: 17.82" in (45.26 cm) Weight: 37.4 lbs (21.55 kg)
Certifications • UL • CUL • FCC • ETL • RoHS	Connectivity Wi-Fi • 802.11 b/g/n 2.4GHz • Security – WEP, WP, WPA-2 • Serial Serial CAN bus interface	Bluetooth 2.0 USB 2.0 connection BTLE
 Safety Features Reverse polarity Clamp connection Non-12V battery connection Battery voltage too low (< 5.5 V) Clamp high temperature detection 	 BMIS-Enabled Remote "over the air" software updates Remote diagnostics Enterprise asset management Reporting and analytic tools Communication with next generation Midtronics platforms and tools 	 User Interface Advanced navigation and charge applications Remote notifications (Wi-Fi- or Bluetooth-enabled) Intuitive charge cycle feedback 5" color touch-screen display
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