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Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
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Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
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Смоленск (4812)29-41-54
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Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47
Россия (495)268-04-70
Казахстан (772)734-952-31

https://midtronics.nt-rt.ru || mgc@nt-rt.ru

DCA-8000
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.

- 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
- **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.

STEP 1: Conductance

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

STEP 2: Conductance Profiling™

Action	Measures a battery's ability to supply power over time
Time 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 Elapsed	2 minutes

STEP 4: Further Diagnostics

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

Avg. Diagnostic Time: less than 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 Diagnostic Charging System

Charge Cables
- 3m (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

Applications
- Automotive
- Power Sports
- Marine

Battery Chemistries
- Flooded lead acid
- AGM (flat and spiral)
- EFB
- Gel
- Li-ion

Rating System
- CCA
- CA
- MCA
- JIS
- DIN
- SAE
- IEC
- EN
- EN2

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
- FCC
- RoHS
- CUL
- ETL

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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