



Advancing
Battery Management

DSS-7000

New vehicles.
New batteries.
New challenges.

DSS-7000

BATTERY DIAGNOSTIC SERVICE SYSTEM

The Future of Battery Management

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

The DSS-7000 Battery Diagnostic Service System answers the challenges posed by contemporary and future vehicles, including capabilities for new battery and system types, new business procedures and a generation of service technicians familiar with app-based technology.

The DSS-7000 enables you to broaden your service expertise by providing the technology to handle the complex challenges of servicing current and future electrified vehicles.

Are You Ready?



- *Flexible technology adaptable to future batteries and systems*
- *Wireless communication supports end-to-end communication and complete battery management*
- *Enhanced battery diagnostics deliver more decisive results, with fewer charge and retest decisions*

Complete Battery Management

Historical testing data is captured and stored in the DSS for easy user access and is also saved to the Midtronics Battery Management Information System (BMIS) for local and enterprise-level data analysis and management.



A Fully Integrated Platform Puts More Information at Your Fingertips

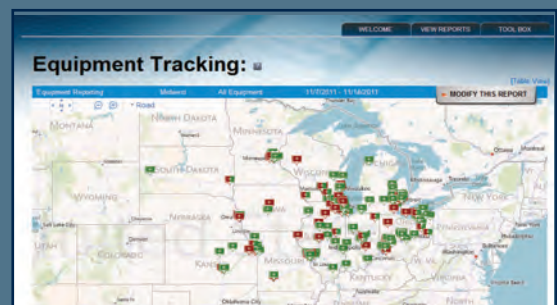
DSS-7000 information reporting capabilities support comprehensive battery management programs designed to reduce warranty costs, save administrative time, and provide better customer service:

- Integrated information system stores service records for local and enterprise-wide use with the Midtronics Battery Management Information System (BMIS) web-based service
- Wireless communication between the DSS-7000, networked printers, and BMIS supports end-to-end communications and management
- Tablet controller enables networking with existing customer systems, including Wi-Fi printers
- Tool software and the local database are easily updatable using integrated Wi-Fi communications to the Midtronics BMIS server
- Applications for other Midtronics products and services can support a total battery management network

DSS-7000 testing results can be sent to BMIS to create visibility into your battery management program. This customizable, web-based data analysis and reporting service is designed to make your equipment, staff, and processes more profitable and effective.

BMIS offers value in key areas:

- Warranty Management
- Asset Management
- Preventative Maintenance
- Customer Service



BMIS Equipment Tracking Report

More Decisive Results, Better Customer Service and Increased Battery Sales

Innovative Conductance Profiling™ technology, combines patented Midtronics algorithms and frequent, precise measurements to provide a more complete picture of the state of the battery and electrical system:

- Improves accuracy and decisiveness in partially discharged conditions, resulting in less charge and retest decisions and the associated longer wait time for technicians and customers
- Analyzes the battery's reserve capacity and ability to support auxiliary power requirements and still have the power to start the vehicle – a key feature as batteries must support a growing number of vehicle accessories and, in start-stop vehicles, start the car more frequently
- Identifies failing batteries proactively, presenting the opportunity to help your customers avoid inconvenient no-starts and grow your battery sales



Complete, Accurate Battery Replacement

Battery Registration

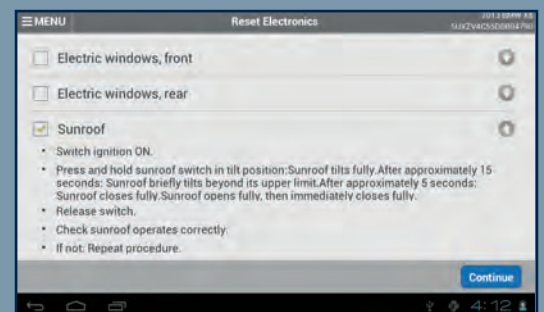
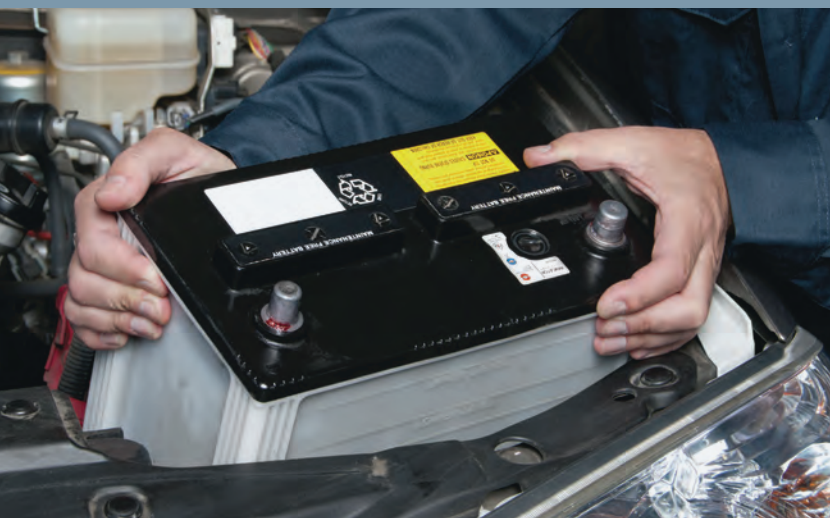
In order to keep the electrical system running at maximum efficiency, many newer vehicles automatically adjust charge cycles and alternator settings based on battery age and mileage.

When a battery is replaced, the DSS-7000 ensures that it is properly recognized as a brand-new battery.

Battery Reset

When a vehicle's battery power is disrupted during maintenance, various electronics in the car often need to be reset. Affected electronics could include power windows, sunroof, power steering, sound system, etc.

The DSS-7000 presents an organized checklist that walks technicians through all the steps required to ensure the customer's vehicle and its accessories function normally.



Battery Reset

Simple, User-friendly Service Experience

The DSS-7000 guides the user through the entire diagnostic process, all from a removable tablet controller:

- 1 Vehicle Identification
- 2 Diagnosis
- 3 Customer Communications

Easy menu navigation and on-screen support pack powerful features in a small package.

VIN Capture, Automated Testing for Reliable Results

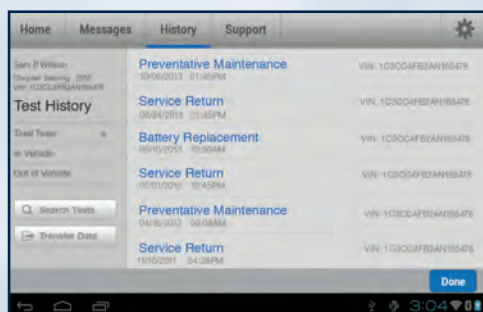
VIN capture is fast and easy -- use the camera in the tablet to scan the VIN, collect it through vehicle communications via the CVG and OBD-II port, or enter the information manually with the keyboard.

- Automatically identifies the vehicle and battery system from the VIN and guides the user through how to properly test that vehicle
- Promotes faster & easier testing
- Less-experienced users can test with accuracy and confidence

VIN capture supports database-driven testing and creates and maintains comprehensive service history records for each vehicle. The DSS-7000 provides easy access to the service history records for technician and customer review.



VIN Capture Options



Vehicle Service History



Applications Improve Accuracy and Efficiency

A variety of service applications perform a range of automated database-driven battery and electrical system diagnostic processes to address the unique needs of both service and retail environments.

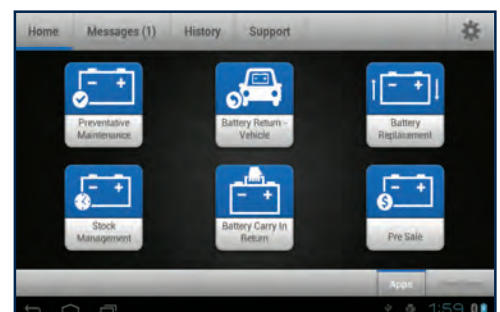
- Users can focus on what action needs to be performed on the vehicle, rather than having to know or remember what testing needs to be performed
- Technicians will be more likely to use the tool accurately as the applications will reinforce correct processes and diagnostic routines

Service Applications

- Preventative Maintenance
- Service Return
- Battery Replacement
- PDI - Vehicle to Dealer
- Lot Management
- PDI - Vehicle to Customer

Retail Applications

- Preventative Maintenance
- Stock Management
- Pre-Sale
- In-Vehicle Battery Return
- Carry-In Battery Return
- Battery Replacement



Retail Applications

Report Options Upgrade the Customer Experience

The DSS-7000 can provide test results through a variety of convenient formats.

On the Tablet Screen

The removable, 7-inch, full-color tablet controller is ideal for instant review with customers in the waiting area.

Via Email

Email test results to customers with the click of a button. Customers will appreciate the convenience of viewing and saving results for future reference and comparison.

Printed Report

The DSS-7000 prints wirelessly to a wide variety of commonly available printers. Results can be printed in an easy-to-read 8.5 x 11 page format that won't curl, fade or be damaged by contact with heat like thermal printer paper strips.



Report Email



Printed Report

On-screen



Product Specifications

Supported Battery Types

12V Standard batteries:

- Flooded Lead Acid
- AGM Flat Plate
- AGM Spiral
- Gel

Battery Ratings

- CCA
- CA
- MCA
- JIS
- DIN
- SAE
- IEC
- EN

Battery Connections

- Side post
- Top post
- Remote post

Reverse Polarity Detection

Temperature Sensor

Located on bottom of base unit

Primary Battery Voltage

1.0 to 36V

Battery Test Cables

3 ft; removable/field-replaceable

Tablet Controller

Removable; 7" diagonal display

Temperature & Humidity

- Operating temperature range: -17°C / +40°C (0°F to +122°F)
- Humidity: 20-80% R.H. (non-condensing)

Wireless Communications

Class 2 Bluetooth

Wi-Fi Communications

802.11 b,g,n

Additional Information

The screenshot shows the Midtronics DSS-7000 product page. At the top, the Midtronics logo is on the left, and 'DSS-7000 BATTERY DIAGNOSTIC SERVICE SYSTEM' is on the right. Below this are four navigation tabs: 'Innovative INDUSTRY SOLUTIONS', 'Complete BATTERY MANAGEMENT', 'Advanced SYSTEM DIAGNOSTICS', and 'Dynamic SERVICE EXPERIENCE'. The main content area features a large image of the DSS-7000 device with a tablet attached. Text on the page reads 'DSS-7000 BATTERY DIAGNOSTIC SERVICE SYSTEM' and 'THE FUTURE OF BATTERY MANAGEMENT'. A sub-headline states: 'Vehicle electrification is rapidly expanding. Prepare for the future of battery service with the advanced technology and new capabilities in the DSS-7000 Battery Diagnostic Service System.' Below this is a button that says '+ See How It Works'. At the bottom, there are four columns of features: 'Innovative Industry Solutions' (Vehicle Electrification, Vehicle Complexity, Service Challenges, Business Challenges), 'Complete Battery Management' (Battery Management Apps, Database-Driven System, Battery Management Information System, Networking), 'Advanced System Diagnostics' (Expanded Battery Diagnostics, Battery Registration and Reset, Enhanced Charging System Diagnostics, Advanced Vehicle System Diagnostics), and 'Dynamic Service Experience' (Removable Touch-Screen Controller, Apps vs. Functions, Customer Communications, Automation).

Check out our comprehensive product microsite covering DSS-7000 product benefits and capabilities in detail at :

<http://dss7000.midtronics.com>.



Use your tablet or smartphone QR scanner app to read this code for a direct link to the microsite.



www.midtronics.com

@midtronics



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