

Evolve.



MDX-600 Series Battery Conductance and Electric System Analyzers

Introducing the MDX-600 series from Midtronics, worldwide leader in battery and electrical diagnostics. The new MDX-600 series combines over 20 years of experience and innovation gained from selling essential tools to nearly every car and truck OEM in the world, with the industry standard conductance technology for battery testing, which makes testing safe, fast, and simple.

SAFE to use anywhere, even in front of the customer

FAST and accurate testing of the battery or electrical system in seconds

SIMPLE, proven user interface eliminates guesswork and user error to provide an accurate analysis every time

The MDX Series advanced features include:

- Multiple vehicle applications, battery types, and rating systems
- Large back-lit screen and improved user interface
- Integrated printer option
- Improved Removable Cable Design

Which helps to:

- Save time and money by improving battery and electrical diagnostic productivity
- Improve customer service by reducing wait time
- Increase sales by proactively testing batteries and electrical systems
- Increase customer satisfaction by identifying potential problems before they occur



PATENTED CONDUCTANCE TECHNOLOGY IS AT THE HEART OF OUR ANALYZERS**NEW BATTERY**

Rating: 500 CCA
Measured:
600 CCA

**DURING LIFE**

450-600 CCA

**APPROACHING
END OF LIFE**

430 CCA

**REPLACE BATTERY**

350 CCA

Conductance is a unique electrical measurement that determines the ability of a battery to transmit current through its internal structure. Years of laboratory and field research have proven that conductance provides a reliable indication of battery state-of-health and a correlation to the battery's cranking ability.

Conductance Technology can be used to detect cell defects, shorts, and normal aging. Midtronics Conductance Technology is recognized globally as the standard for determining battery condition and controlling battery charging. Conductance is the required test method for battery warranty decisions at most automotive OEMs.

A new battery, when fully charged, will have a high conductance reading, anywhere from 10% to 15% higher than its full CCA rating.

As a battery ages, its internal components wear out through corrosion, disintegration, and shedding. Performance of the battery is significantly degraded and can be measured through its conductance value.

THE COMPLETE TOOL FOR ALL VEHICLE AND BATTERY APPLICATIONS**Vehicle Applications**

- Automotive
- Motorcycle
- Marine Cranking
- Lawn and Garden
- Group 31
- Commercial 4D/8D

**Battery Type**

- Regular flooded
- AGM flat plate
- AGM spiral
- Gel

**Global Systems**

- CCA, CA, MCA, JIS, SAE, EN, DIN, IEC
- 6 and 12 volt batteries
- 12 & 24 volt charging system testing

**Advanced Starter/Alternator Testing
(650 / 650P Only)**

- Quick starter analysis without disabling the ignition
- Advanced menu-driven interface for a complete charging system analysis in seconds

Additional Features

- VIEW/PRINT – to view last test from memory or print another copy
- Large back-lit display keeps operation simple for all levels of users
- Data card reader for future software upgrades
- 4' or 10' Removable cable set for running the test from the driver's seat.
- QC MODE for performing quality control testing
- Multiple Languages
- COUNTER Information to track activity, including good vs. replace, batteries and system test results

Removable Cable set





MDX-640

AVAILABLE MODELS

- **MDX-640**
Battery Conductance Analyzer for battery testing only (6 and 12 volt batteries)

MDX-600 Series products can be purchased with an integrated printer or a portable IR printer to provide a professional diagnostic report to the consumer.

- Increase customer satisfaction by identifying potential problems before they occur
- Complete system information in an easy to read and understand format
- Date and time for accurate records
- User definable header



Sample Printout



MDX-650P

- **MDX-650**
Battery and Electrical System Analyzer combines the full MDX-640 capabilities for battery testing with in-vehicle capabilities for analyzing the starting and charging systems (6 and 12 volt batteries and 12 and 24 volt charging systems)
- **MDX-650P**
All of the MDX-650 features, plus an Integrated Printer



Software Updates via Memory Card reader

SPECIFICATIONS:

Models:

- **MDX-640** Battery Conductance Analyzer
Includes: MDX-600 Series Analyzer, MDX-640 Software (installed), Manual, stud adapters, 4' cable set
- **MDX-650** Battery Conductance and Electrical System Analyzer
Includes: MDX-600 Series Analyzer, MDX-650 Software (installed), Manual, stud adapters, 10' cable set, tool bag.
- **MDX-650P** Battery Conductance and Electrical System Analyzer with Integrated Printer
Includes: MDX-600 Series Analyzer with integrated printer, MDX-650 Software (installed), Manual, stud adapters, 10' cable set, tool bag.

Available Accessories:

- A156 Tool Bag Carrying Case
- A207 Replacement 4' Battery Test Cable
- A208 Replacement 10' Battery Test Cable
- A033 Lead Stud Adapters, 2 male, 2 female
- A095 6 pack, thermal paper*
**Replacement paper rolls available at most office supply stores*
- A087 IR Printer with Charger (for MDX-640)

Applications:

- Automotive
- Motorcycle
- Marine
- Lawn & Garden
- Group 31
- Commercial 4D/8D
- 6 & 12 Volt batteries
- 12 & 24 Volt charging systems

Display:

5-line Text/Graphical Backlit Display

Operating Temperature:

0°C to +50°C (32°F to +122°F)

Test Range:

- CCA: 100-2000 BY 5
- MCA: 100-2000 BY 5
- EN: 100-2000 BY 5
- SAE: 100-2000 by 5
- CA: 100-2000 BY 5
- JIS#: By Part Number
- DIN: 100-1200 by 5
- IEC: 100-1200 by 5

Voltage Range:

1Vdc – 30Vdc

Cable Length:

- 4'/ 122cm (MDX-640)
- 10'/305cm (MDX-650/650P)

Power Requirements:

Uses the power of the battery under test and 6 AA Internal Batteries

Languages:

- English
- French Canadian
- Spanish
- Portuguese

Housing Material:

Acid resistant ABS plastic

Dimensions:

MDX-640/ MDX-650: 19.5cm x 10cm x 5cm (7.7" x 3.9" x 2.4")

MDX-650P: 27cm x 10cm x 5cm (10.6" x 3.9" x 2.4")

Weight:

MDX-640/650: 544g (1.2lbs)

MDX-650P: 771g (1.7lbs)



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