

Advancing Battery Management

# **MDX-600 Series**

Battery Conductance and Electric System Analyzers

The Midtronics MDX-600 Series combines 30 years of experience and innovation gained from selling essential tools to nearly every car and truck OEM in the world. With industry standard conductance technology for battery testing, the MDX Series is:

- SAFE Worry-free operation anywhere, even in front of customers
- **FAST** 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 delivers solid benefits:

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

MDX Series advanced features include:

- Multiple vehicle applications, battery types, and rating systems
- Large back-lit screen and improved user interface
- Integrated printer option
- Replaceable cable design



## Patented Conductance Technology is at the Heart of Our Analyzers



#### **NEW BATTERY** Rating: 500 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 (SOH) 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 to determine battery condition and control 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 of anywhere from10% 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



STARTER/ALTERNATOR ENGINE REV DETECTED IDLE ENGINE

Battery Conductance and Rectrical System Analyze

#### **Global Systems**

- CCA, CA, MCA, JIS, SAE, EN, DIN, IEC
- 6 & 12 volt batteries
- 12 & 24 volt charging system (650/650P only) 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



## **Specifications**



## **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 your customers.

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



	TATE/PROU POST CODE
PHONE N WEBSITE	1000000
	23/2008 :29 RM
BATTERY TEST	
GOOD	BATTERY
VOLTS MEASURED RATED	12.400 739 CCA 600 CCR
BATTERV TVPE BAT, LOCATION APPLICATION	REGULAR FLOODED IN VEHICLE AUTOMOTIVE
STAR	IER TEST
CRANKI	NG NORMAL
CRANKING TIME	11.17V .965
CHARG	lng test
NO P	ROBLEMS
NO LORD 14.250	LOADED 14.060
CONFIG:	192-11002381

MDX-650

TEST REPORT

CTOTE /DDOIL

YOUR STORE

STREET

Sample Printout



#### • MDX-650

Battery and Electrical System Analyzer combines the full MDX-640 capabilities for battery testing with in-vehicle capabilities to analyze starting and charging systems (6 & 12 volt batteries and 12 & 24 volt charging systems)

#### • MDX-650P

All of the MDX-650 features, plus an integrated printer



## **SPECIFICATIONS:**

#### Models:

- MDX-640 Battery Conductance Analyzer Includes: MDX-600 Series Analyzer, MDX-640 software (installed), manual, lead stud adapter set, 4-ft cable set
- MDX-650 Battery Conductance and Electrical System Analyzer Includes: MDX-600 Series Analyzer, MDX-650 software (installed), manual, lead stud adapter set, 10-ft cable set, carrying 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, lead stud adapter set, 10-ft cable set, carrying bag

#### **Available Accessories:**

- A156 Universal Soft Carry-All Bag
- A207 4-ft Replaceable Cable
- A208 10--ft Replaceable Cable
- A033 Lead Stud Adapter Set (2 male, 2 female)
- A095 6-Pack Thermal Printer Paper\*
- \* Replacement paper rolls available at most office supply stores
- A087 Infrared Printer with Charger (for MDX-640)



User-replaceable cable sets

#### **Applications:**

- Automotive
- Motorcycle
- Marine CrankingGroup 31
- Lawn & Garden
  Commercial 4D/8D
- 6 & 12 Volt batteries
- 12 & 24 Volt charging systems (650/650P Only)

#### **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 JIS#: By Part Number
- EN: 100-2000 BY 5 DIN: 100-1200 by 5

• CA: 100-2000 BY 5

• IEC: 100-1200 by 5

• SAE: 100-2000 by 5

#### Voltage Range:

1Vdc – 30Vdc

#### Cable Length:

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

#### **Power Requirements:**

Uses the power of the battery under test and 6AA internal batteries

#### Languages:

- English
- Spanish
- French-Canadian
   Portuguese

#### **Housing Material:**

Acid-resistant ABS plastic

#### **Dimensions:**

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

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

#### Weight:

MDX-640/650: 1.2 lbs (544g) MDX-650P: 1.7 lbs (771g)

<u>MID, TRONICS</u>