

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











# **MDX-600 Series**Battery Conductance and Electrical System Analyzers

## PATENTED CONDUCTANCE TECHNOLOGY IS AT THE HEART OF OUR ANALYZERS





**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.

Conductance Technology can be used to detect cell defects, shorts, and normal aging.

Midtronics Conductance Technology is recognized.

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
- Truck



#### **Battery Type**

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



STARTER/ALTERNATOR

ENGINE REV DETECTED IDLE ENGINE

Battery Conductance and Electrical System Analyzer

# Global Systems

- · JIS, SAE, EN, DIN, IEC
- 6 and 12 volt batteries

# Advanced Starter/Alternator Testing (655 / 655P 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
- 122 cm or 305 cm 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





MDX-645

**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

## **MIDTRONICS** MDX-655P

CONFIG: 192-110040B

TEST REPORT

MIDTRONICS LAGE DIJK-NOORD 6 3401 VA IJSSELSTEIN THE NETHERLANDS 0031 30 6868 150

> 29-05-2008 15:52

#### BATTERY TEST

### GOOD, RECHARGE

VOLTS 12,430 MEASURED 451 SAE(A) RATING 525 SAE(A)

BATTERY TYPE REGULAR FLOODED BAT. LOCATION IN VEHICLE APPLICATION AUTOMOTIVE BAT. TEMPERATURE ABOVE 0°C

#### STARTER MEST

CRANKING NORMAL

CRANKING 10,58V TIME 0,788

#### CHARGING TEST

NO PROBLEMS

NO LOAD LOADED 14,530 14,470



MDX-655P

Battery and Electrical System Analyzer combines the full MDX-645 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-655P

All of the MDX-655 features, plus an Integrated Printer





## MDX-600 Series **Battery Conductance and Electrical System Analyzers**

**SPECIFICATIONS:** 

# Models:

- MDX-645 Battery Conductance Analyzer Includes: MDX-600 Series Analyzer, MDX-645 Software (installed), Manual CD, 122 cm cable set
- MDX-645P Battery Conductance Analyzer Includes: MDX-600 Series Analyzer with integrated printer, MDX-645 Software (installed), Manual CD, 122 cm cable set.
- MDX-655 Battery Conductance and Electrical System Analyzer Includes: MDX-600 Series Analyzer, MDX-655 Software (installed), Manual CD, 305 cm cable set.
- MDX-655P Battery Conductance and Electrical System Analyzer with Integrated Printer Includes: MDX-600 Series Analyzer with integrated printer, MDX-655 Software (installed), Manual CD, 305 cm cable set.

#### **Available Accessories:**

Replacement 122 cm Battery Test Cable A207 A208 Replacement 305 cm Battery Test Cable

85660/12 12 pack, thermal paper A088/A089 IR Printer with Charger

#### **Applications:**

- Automotive
- Motorcycle
- Truck
- 6 & 12 Volt batteries
- 12 & 24 Volt charging systems

#### Display:

5-line Text/Graphical Backlit Display

#### **Operating Temperature:**

 $0^{\circ}$ C to +50°C (32°F to +122°F)

#### **Test Range:**

• EN: 100-2000 by 5 • DIN: 100-1200 by 5

• SAE: 100-2000 by 5 • IEC: 100-1200 by 5

• JIS#: By Part Number

#### Voltage Range:

1Vdc - 30Vdc

## Cable Length:

- 122 cm /4' (MDX-645/645P)
- 305 cm /10' (MDX-655/655P)

#### **Power Requirements:**

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

#### Languages:

24 Languages

#### **Housing Material:**

Acid resistant ABS plastic

#### **Dimensions:**

MDX-645/ MDX-655: 19,5 cm x 10 cm x 5 cm MDX-645P/MDX-655P: 27 cm x 10 cm x 5 cm

#### Weight:

MDX-645/655: 544g (1.2lbs)

MDX-645P/MDX-655P: 771g (1.7lbs)







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