

Introducing the MDX-700 HD from Midtronics, the worldwide leader in battery and electrical diagnostics.

Created specifically for the heavy-duty commercial/fleet market, the new MDX-700 HD uses Midtronics' advanced conductance technology, making it easy for anyone to test the full electrical system on heavy duty vehicles.

Technicians can quickly find the problem – in the battery, starting or charging system – in minutes, not hours.

Test results, including multiple battery tests, can be printed on an optional integrated printer.

The MDX-700's 15' cable set allows for starting and charging system tests to be run from the cab, for complete control and simplicity.

The analyzer's user-friendly interface intuitively prompts the user through the entire test sequence quickly and easily.

Using patented conductance technology and an advanced heavy duty battery testing algorithm, the MDX-700 HD provides accurate test results reliably for multiple configurations up to 2000 CCA.

- SAFE to use anywhere, even in front of the customer
- FAST and accurate testing of the battery or full system accurately in seconds
- SIMPLE proven user interface eliminates guesswork and user error, providing accurate analysis every time

The MDX-700 HD helps to:

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





MDX-700 HD

## **MDX-700 HD OVERVIEW**

Heavy Duty Battery Conductance and Electrical System Analyzer for testing 6 and 12 volt batteries in 12 to 24 volt systems consisting of one or as many as six batteries (in a pack)

- In-vehicle capabilities for analyzing the starting and charging systems
- Date and time for accurate records
- User definable header
- Complete system information in an easy to read and understand format

## MIDTRONICS MDX-700 HD

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## CHECK PACK

E 2000 (#140) (#180)

VOLTS 11.400 MEASURED 428 CCA RATING 550 CCA BATTERY TYPE REGULAR FLOODED BAT. LOCATION IN VEHICLE POST TYPE TOP POST APPLICATION GROUP 31 CHARGE STATE BEFORE CHARGE

# BATTERY 1 GOOD BATTERY

VOLTS 12.51V MEASURED 541 CCR

BATTERY 2

GOOD BATTERY

UOLTS 12.53U MERSURED 546 CCA

BATTERY 3

# GOOD BATTERY

UOLTS 12.54U MERSURED 546 CCR

BATTERY 4

### REPLACE BATTERY

VOLTS 11.40V MERSURED 264 CCR

Sample Printout



MDX-700 HD Series products can be purchased with an integrated printer or a portable IR printer to provide a professional diagnostic report to the consumer.

### MDX-700HD

Battery Conductance and Electrical System Analyzer w/15' cable and heavy duty battery clamps

### MDX-700PHD

Battery Conductance and Electrical System Analyzer w/15' cable and heavy duty battery clamps and an integrated thermal printer

Midtronics is focused on developing innovative technologies for battery management.

For preventive maintenance, professional service and warranty management, our battery and electrical diagnostic equipment is the accepted standard by new vehicle dealers, service centers and battery retailers worldwide.

#### Removable Cable set



SIMM Card Data Transfer



Extra Long Cable set allows testing from the cab





# **MDX-700 HD**

**Heavy Duty Battery Conductance and Electrical System Analyzer** 

# PATENTED CONDUCTANCE TECHNOLOGY IS AT THE HEART OF OUR ANALYZERS



## **NEW BATTERY**

Rating: 500 CCA Measured: 600 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



# **DURING LIFE**

450-600 CCA

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

The MDX-700HD combines all of the testing functionality of our MDX-650 series with the added ability to test the multiple battery systems found in trucks and commercial equipment



## **Vehicle Applications**

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



### **Battery Types**

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



STARTER/ALTERNATOR

ENGINE REV DETECTED

IDLE ENGINE

### Starter/ Alternator Testing

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

# Battery Pack Testing

- Test the pack with batteries connected for PM testing
- Routine for testing and reporting individual battery results from multiple battery systems

# t plate Additional Features

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



## **Global Systems**

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



# **MDX-700 HD**

# **Heavy Duty Battery Conductance and Electrical System Analyzer**

### **SPECIFICATIONS:**

### **Models:**

 MDX-700HD Battery Conductance and Electrical System Analyzer

Includes: MDX-700 HD Series Analyzer, MDX-700 HD Software (installed), Manual, stud adapters, 15' cable set, tool bag.

 MDX-700PHD Battery Conductance and Electrical System Analyzer

Includes everything from MDX-700 HD with the addition of an Integrated Printer.

#### **Available Accessories:**

A156 Tool Bag Carrying Case

A260 Replacement 15' 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-700 HD)

### **Applications:**

- Group 31
- Automotive
- Motorcycle
- Marine
- · Lawn & Garden
- Group 31
- · Commercial 4D/8D

### 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 NumberDIN: 100-1200 by 5IEC: 100-1200 by 5

### **Voltage Range:**

.9Vdc - 30Vdc

### **Cable Length:**

15'/455cm (standard)

### **Power Requirements:**

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

### Languages:

- English
- Spanish
- French Canadian

### **Housing Material:**

Acid resistant ABS plastic

### **Dimensions:**

MDX-700 HD: 19.5cm x 10cm x 5cm

(7.7" x 3.9" x 2.4")

MDX-700P HD: 27cm x 10cm x 5cm (10.6" x 3.9" x 2.4")

### Weight:

MDX-700 HD: 544g (1.2 lbs) MDX-700P HD: 771g (1.7 lbs)

## Use your smart phone QR scanner app to read this code and view a product video





www.midtronics.com

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