

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

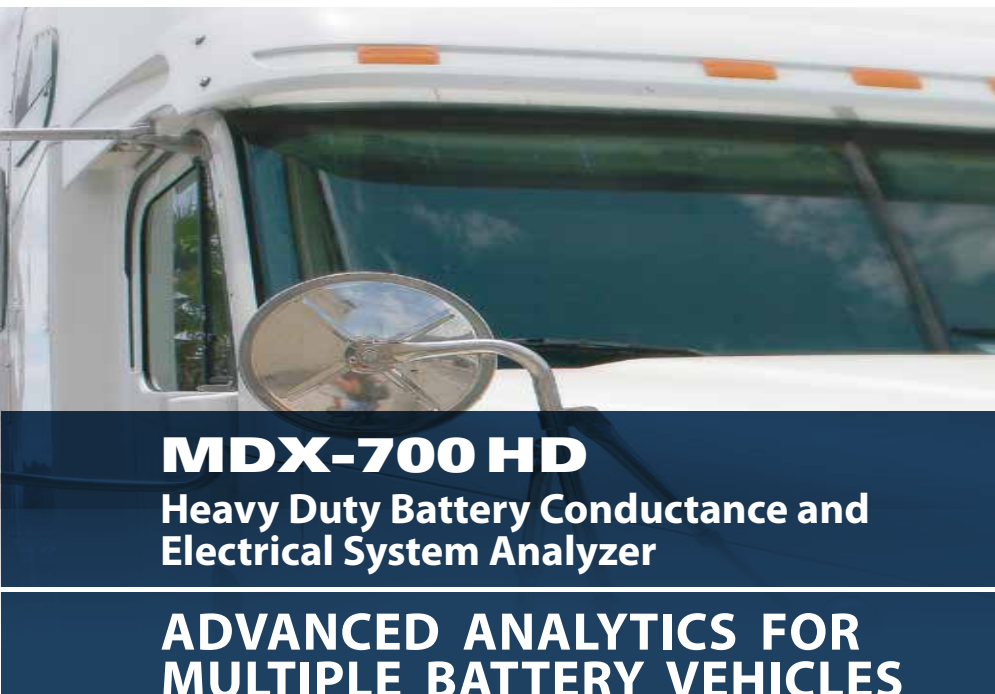
Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Россия (495)268-04-70

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Казахстан (772)734-952-31

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93

<https://midtronics.nt-rt.ru> || [mgc@nt-rt.ru](mailto:mgc@nt-rt.ru)



## MDX-700 HD

### Heavy Duty Battery Conductance and Electrical System Analyzer

## ADVANCED ANALYTICS FOR MULTIPLE BATTERY VEHICLES

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-700HD

## MDX-700HD 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

04/21/2010  
9:56 AM

PACK 1381

### CHECK PACK

VOLTS	11.40V
MEASURED	428 CCA
RATING	550 CCA
BATTERY TYPE	REGULAR FLOODED
BRT. LOCATION	IN VEHICLE
POST TYPE	TOP POST
APPLICATION	GROUP 31
CHARGE STATE	BEFORE CHARGE

BATTERY 1  
GOOD BATTERY

VOLTS	12.51V
MEASURED	541 CCA

BATTERY 2  
GOOD BATTERY

VOLTS	12.53V
MEASURED	546 CCA

BATTERY 3  
GOOD BATTERY

VOLTS	12.54V
MEASURED	546 CCA

BATTERY 4  
REPLACE BATTERY

VOLTS	11.40V
MEASURED	264 CCA

Sample Printout



MDX-700P HD

## AVAILABLE MODELS

MDX-700HD 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



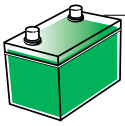
Extra Long Cable set allows testing from the cab



# MDX-700 HD

## Heavy Duty Battery Conductance and Electrical System Analyzer

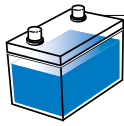
### PATENTED CONDUCTANCE TECHNOLOGY IS AT THE HEART OF OUR ANALYZERS



#### NEW BATTERY

Rating: 500 CCA  
Measured:  
600 CCA

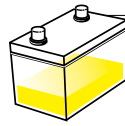
Conductance is a unique electrical measurement that determines the ability of a battery to transmit current through its internal structure. Years of laboratory and field research have proven that conductance provides a reliable indication of battery state-of-health and a correlation to the battery's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



#### DURING LIFE

450–600 CCA

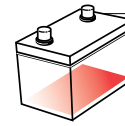
Conductance Technology can be used to detect cell defects, shorts, and normal aging. Midtronics Conductance Technology is recognized globally as the standard for determining battery condition and controlling battery charging. Conductance is the required test method for battery warranty decisions at most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



#### APPROACHING END OF LIFE

430 CCA

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



#### REPLACE BATTERY

350 CCA

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



#### Global Systems

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



#### 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

#### 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



# MDX-700 HD

## Heavy Duty Battery Conductance and Electrical System Analyzer

### SPECIFICATIONS:

#### Models:

- **MDX-700HD** Battery Conductance and Electrical System Analyzer  
Includes: MDX-700HD 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-700HD 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-700HD)

#### Applications:

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

#### Display:

5-line Text/Graphical Backlit Display

MDX-700HD



MDX-700PHD



#### 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:

.9Vdc – 30Vdc

#### Cable Length:

- 15'/455cm (standard)

#### Power Requirements:

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

#### Languages:

- English
- French Canadian
- Spanish

#### Housing Material:

Acid resistant ABS plastic

#### Dimensions:

MDX-700HD: 19.5cm x 10cm x 5cm  
(7.7" x 3.9" x 2.4")

MDX-700PHD: 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)

Архангельск (8182)63-90-72  
Астана (7172)727-132  
Астрахань (8512)99-46-04  
Барнаул (3852)73-04-60  
Белгород (4722)40-23-64  
Брянск (4832)59-03-52  
Владивосток (423)249-28-31  
Волгоград (844)278-03-48  
Вологда (8172)26-41-59  
Воронеж (473)204-51-73  
Екатеринбург (343)384-55-89  
Иваново (4932)77-34-06

Ижевск (3412)26-03-58  
Иркутск (395)279-98-46  
Казань (843)206-01-48  
Калининград (4012)72-03-81  
Калуга (4842)92-23-67  
Кемерово (3842)65-04-62  
Киров (8332)68-02-04  
Краснодар (861)203-40-90  
Красноярск (391)204-63-61  
Курск (4712)77-13-04  
Липецк (4742)52-20-81  
Киргизия (996)312-96-26-47

Магнитогорск (3519)55-03-13  
Москва (495)268-04-70  
Мурманск (8152)59-64-93  
Набережные Челны (8552)20-53-41  
Нижний Новгород (831)429-08-12  
Новокузнецк (3843)20-46-81  
Новосибирск (383)227-86-73  
Омск (3812)21-46-40  
Орел (4862)44-53-42  
Оренбург (3532)37-68-04  
Пенза (8412)22-31-16  
Россия (495)268-04-70

Пермь (342)205-81-47  
Ростов-на-Дону (863)308-18-15  
Рязань (4912)46-61-64  
Самара (846)206-03-16  
Санкт-Петербург (812)309-46-40  
Саратов (845)249-38-78  
Севастополь (8692)22-31-93  
Симферополь (3652)67-13-56  
Смоленск (4812)29-41-54  
Сочи (862)225-72-31  
Ставрополь (8652)20-65-13  
Казахстан (772)734-952-31

Сургут (3462)77-98-35  
Тверь (4822)63-31-35  
Томск (3822)98-41-53  
Тула (4872)74-02-29  
Тюмень (3452)66-21-18  
Ульяновск (8422)24-23-59  
Уфа (347)229-48-12  
Хабаровск (4212)92-98-04  
Челябинск (351)202-03-61  
Череповец (8202)49-02-64  
Ярославль (4852)69-52-93