

Features:

- Integrated printer provides immediate results to review with the customer
- · User-defined headers on printout
- Tests 12 volt batteries and electrical systems for cars and light trucks
- Tests starting and charging system voltage and displays results
- Tests batteries from 100 to 1400 CCA
- Bad cell detection
- Reverse polarity protection
- Tests discharged batteries down to one volt
- Multiple rating system compatible (CCA, CA, MCA, SAE, DIN, EN, IEC, JIS)
- Tests multiple battery chemistries including standard flooded, AGM, and GEL
- Multiple language capability: English, French-Canadian, Spanish and Japanese



MDX-P300

Battery Conductance and Electrical System Tester

SPECIFICATIONS:

Model:

MDX-P300

Display:

LCD text display

Temperature Compensation:

Tester-prompted

Operating Temperature:

32°F to 120°F/0°C to 50°C

Test Range:

- 100-1400 CCA
- 100-1400 CA
- 100-1400 MCA
- 100-1400 SAE
- 100-550 DIN
- 100-900 EN
- 100-550 IEC
- JIS#

Built-in Printer:

Powered by battery under test

Voltage Range:

• Tests 12 volt batteries down to one volt

Cable Length:

• 21 in/533.4 mm

Power Requirements:

 Uses power of battery under test or 9 volt battery

Voltmeter:

• .9-16 Vdc, +/- 0.05 Vdc

Languages:

- English
- Spanish
- French-Canadian
- Japanese

Housing Material:

· Acid-resistant ABS plastic

MIDTRONICS

MDX-P300

MIDTRONICS, INC. 7000 Monroe Street Willowbrook, IL 60527 630 323 2844

BATTERY TEST

GOOD BATTERY

VOLTS: 12.64V MEASURED: 541 CCA RATING: 600CCA

BATT. TYPE: REGULAR OUT OF VEHICLE BATT. LOCATION: BATT. TEMP: ABOVE 32°F

STARTER TEST

OK

VOLTS: 10.56V

CHARGING TEST

OK

VOLTS: 14.63V

Version 1.0 @2006

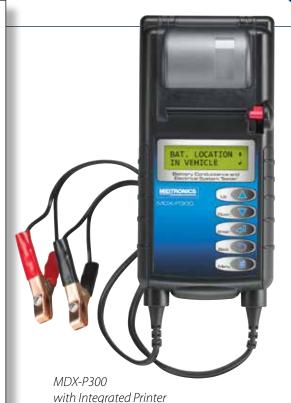
Sample print-out

Dimensions:

• 9 in x 4 in x 2.5 in (230 mm x 102 mm x 65 mm

Weight:

1.16 lb / 499 g







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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
Measured:
600 CCA



DURING LIFE 450–600 CCA



APPROACHING END OF LIFE430 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 (SOH) and a correlation to the battery's cranking ability.

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 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



STARTER/ALTERNATOR ENGINE REV DETECTED IDLE ENGINE Battery Conductance and Electrical System Analyzen

Global Systems

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

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





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





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

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)



Applications:

 Automotive Motorcycle · Lawn & Garden Marine Cranking • Group 31

· 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 • CA: 100-2000 BY 5 • MCA: 100-2000 BY 5 • JIS#: By Part Number • EN: 100-2000 BY 5 • DIN: 100-1200 by 5 • SAE: 100-2000 by 5 • IEC: 100-1200 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 French-Canadian Spanish

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)

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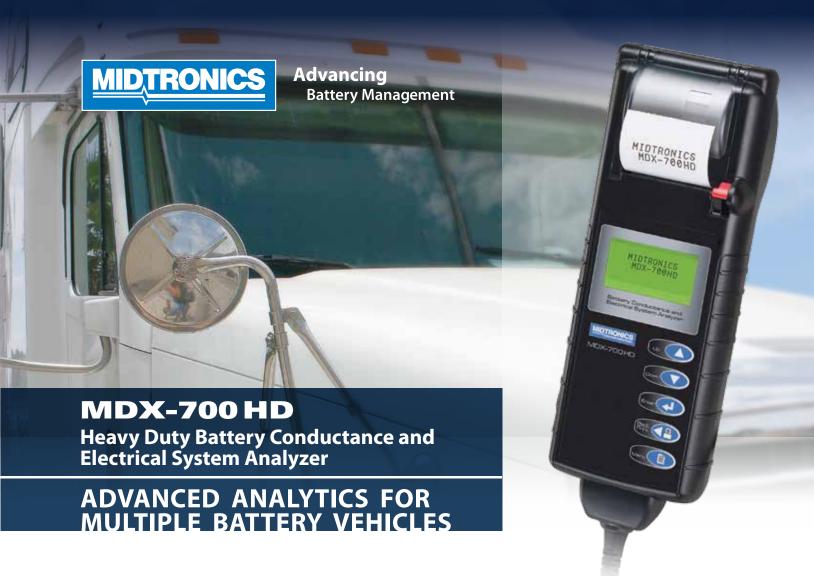


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Introducing the MDX-700 HD from Midtronics, the worldwide leader in battery and electrical diagnostics.

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

04/21/2010 9:56 AM

PACK TEST CHECK PACK

LINI TO

MERSURED	428 CCA
RATING BATTERY TYPE	
BAT. LOCATION POST TYPE	IN VEHICLE TOP POST
APPLICATION	GROUP 31
CHORGE STATE	DEEUDE UNODES

BATTERY 1 GOOD BATTERY

VOLTS 12.51V MERSURED 541 CCR

BATTERY 2

GOOD BATTERY

OOOD DATTERT

 VOLTS
 12.53V

 MEASURED
 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



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-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 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
- 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: 544q (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





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