

Evolve.



MDX-600 AP Series Battery Conductance and Electric System Analyzers

Introducing the MDX-600 AP series from Midtronics, worldwide leader in battery and electrical diagnostics. This new line of testers 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 AP 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
- Multiple languages: English, Chinese, Japanese and Korean

Which helps to:

- Save time and money by improving battery and electrical diagnostic productivity
- Simplify usability with multi-lingual display
- 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



INNOVATION



TECHNOLOGY



QUALITY



WORLDWIDE

PATENTED CONDUCTANCE TECHNOLOGY IS AT THE HEART OF OUR ANALYZERS



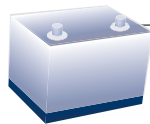
NEW BATTERY

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



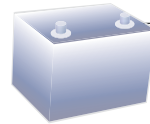
DURING LIFE

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**

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

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
- Marine
- Group 31
- Commercial 4D/8D



Global Systems

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



Battery Type

- Regular flooded
- AGM spiral
- Gel



**Advanced Starter/
Alternator Testing**

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

MODEL FEATURE COMPARISON

| | MDX-631 AP | MDX-641 AP* | MDX-651P AP | MDX-661P AP |
|---------------------------|------------------------------------|---------------------------------------|---------------|--|
| Batteries | 6 & 12 Volt | | | |
| Starting/ Charging System | No | | 12 Volt | 12 & 24 Volt |
| Application | Automotive | | | Automotive, Marine, Grp31, 4D/8D |
| Battery Location | Out of vehicle | | In & Out | |
| Battery Chemistries | Regular Flooded | Regular Flooded, AGM, AGM Spiral, Gel | | |
| Languages | English, Chinese, Japanese, Korean | | | |
| Cables | 4' Removable | | 10' Removable | |
| Printer | IR (optional) | IR or Integrated | Integrated | |
| Carrying Case | None | | Carrying Case | |
| Rating | DIN, IEC, EN, CCA, JIS, SAE | | | |

*Also available as MDX-641P AP with integrated printer

Removable Cable set





MDX-641

| | |
|------------------------------|-----------------|
| MIDTRONICS MDX-661P AP HD | |
| CONFIG: 192-110062A | |
| TEST REPORT | |
| 1-STORE NAME | |
| 2-ADDRESS | |
| 3-ADDRESS | |
| 4-ADDRESS | |
| 5-ADDRESS | |
| 6-ADDRESS | |
| 7-PHONE NUMBER | |
| 8-WEBSITE | |
| 07/30/2008 2:29 PM | |
| BATTERY TEST | |
| GOOD BATTERY | |
| VOLTS | 12.85V |
| MEASURED | 665 CCA |
| RATING | 500 CCA |
| BATTERY HEALTH | |
| | |
| BATTERY TYPE | REGULAR FLOODED |
| BAT. LOCATION | IN VEHICLE |
| APPLICATION | GROUP 31 |
| STARTER TEST | |
| CRANKING NORMAL | |
| CRANKING | 11.39V |
| TIME | 4.00S |
| CHARGING TEST | |
| LOW OUTPUT | |
| NO LOAD | 12.20V |
| LOADED | 12.14V |



MDX-661P

AVAILABLE MODELS

- MDX-631, MDX-641/MDX-641P, MDX-651P and MDX-661P

MDX-600 Series products can be purchased with a portable IR printer or, on some models, an integrated 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

Sample Printout



Multiple Languages

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
- 4' or 10' 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

Software Updates via Memory Card reader



SPECIFICATIONS:

Models:

- **MDX-631** Battery Conductance Analyzer
Includes: MDX-600 Series Analyzer, MDX-631 Software (installed), Manual, 4' cable set
- **MDX-641 / 641P** Battery Conductance and Electrical System Analyzer ('P' Series includes Integrated Printer)
Includes: MDX-600 Series Analyzer, MDX-641 Software (installed), Manual, 4' cable set
- **MDX-651P** Battery Conductance and Electrical System Analyzer with Integrated Printer
Includes: MDX-600 Series Analyzer with integrated printer, MDX-651 Software (installed), Manual, 10' cable set, carrying case
- **MDX-661P** Battery Conductance and Electrical System Analyzer with Integrated Printer
Includes: MDX-600 Series Analyzer with integrated printer, MDX-661P Heavy Duty software (installed), Manual, 10' cable set, carrying case

Available Accessories:

- A156 Carrying Case
- A207 Replacement 4' Battery Test Cable
- A208 Replacement 10' 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-641)

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:

1Vdc – 30Vdc

Cable Length:

- 4' / 122cm
- 10' / 305cm

Power Requirements:

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

Languages:

- English
- Japanese
- Chinese
- Korean

Housing Material:

Acid resistant ABS plastic

Dimensions:

MDX-631, -641: 19.5cm x 10cm x 5cm
(7.7" x 3.9" x 2.4")

MDX-641P, -651P, -661P: 27cm x 10cm x 5cm
(10.6" x 3.9" x 2.4")

Weight:

MDX-631, -641: 544g (1.2lbs)

MDX-641P, -651P, -661P: 771g (1.7lbs)



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