

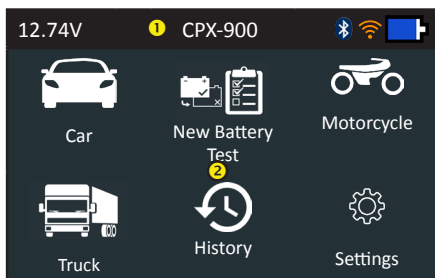
Important - Before You Start

- Before operating the analyzer, refer to Instruction Manual
- Always observe all the battery manufacturer's instructions and all safety recommendations of the BCI (Battery Council International)

Connections And Data Ports



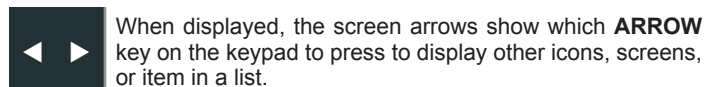
Main Menu



1 Menu Bar

12.74V	Battery voltage (if connected)		WiFi signal strength
	Bluetooth connectivity status		Internal battery controller status

2 Main Menu Selection Area



Additional Screens

The dots at the bottom or side of a menu or in the results screen indicate additional screens are available.



Test Preparation

Before starting the test, take a good look at the battery and check it for:

- Cracks, dents or leaks in the casing.
- Corroded, loose, or damaged cables and connections.
- Corrosion, dirt, or acid on the battery terminals or on top of the casing.
- Corroded or loose battery tray and hold-down fixture.

⚠ DANGER	⚠ WARNING
Risk of explosive gases Batteries develop explosive gases during normal operation and when charging and discharging. Follow all manufacturers' instructions and BCI (Battery Council International) safety recommendations.	Wash hands after use. REQUIRED BY CALIFORNIA, PROPOSITION 65: Battery terminals, battery clamps and associated accessories contain lead and lead compounds. The State of California is aware that these chemicals are carcinogenic and cause birth defects or are otherwise harmful to reproduction.

Test With Battery In Vehicle / System Test

1. **Battery Test Setup** - Edit the displayed vehicle and battery information based on the VID. Select **Start** to advance to the next screen.

Battery Type	Flooded EFB	AGM AGM spiral	GEL
Rating Units	EN SAE	DIN JIS	EN2 IEC CCA
Battery Rating	Input the cold start current from the battery.		
Battery AH	Input the Amp-hour value of the battery.		
VID	Vehicle ID: input partial VIN or registration number.		

Value	Description	Range
EN	European Norms. The battery is required to deliver a voltage of 7.5V after 10 seconds	100 to 3000
SAE	Society of Automotive Engineers norm. The test specifies that the battery at a temperature of -18 °C will deliver a current equal to the Cold Cranking Amps for 30 seconds with the voltage staying above 7.2V	100 to 3000
DIN	Deutsche Industrie-Norm	100 to 1000
JIS	Test for Japanese Industrial Standard, performed at -15 °C.	A list is shown
EN2	European Norms 2. Allowing a different second discharge from EN.	100 to 3000
IEC	Norm International Electrotechnical Commission. The IEC test is performed at -18 °C	100 to 1000
CCA	Cold Cranking Amps as specified by SAE: the amount of current a battery can generate at a temperature of 0 °F (-17.8 °C).	100 to 3000

2. **Temperature** - Hold the tester's temperature sensor over the battery being tested. Select **Record** to record the live temperature reading and begin the battery test.

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Quick Reference Card

167-001110EN-A

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Battery Test Results

 Send test results via email.

 Print test results

Icons are colour-coded to indicate status.



Battery Test



Starter Test



Alternator Test

Green:

All test parameters were completed and have passed.

Red:

The battery has failed the test.

Yellow:

Some test parameters may require further testing.

Grey:

Insufficient data to perform the test.

Consult Appendix B: Decision Tables in the User Manual for a complete explanation of all possible test results.

System Test

1. Start the vehicle's engine and let it idle.
2. Ensure all the accessories (high beam headlights/blower etc.) are switched off and select **Next**.

The tester tests the alternator output.

3. When prompted, rev and hold the engine to between 2000 to 3000 rpm.

The tester tests the alternator output again.

4. When prompted, idle the engine and select **Next**.
5. Switch the headlights to high beam and switch on the blower.
6. Select **Next**.

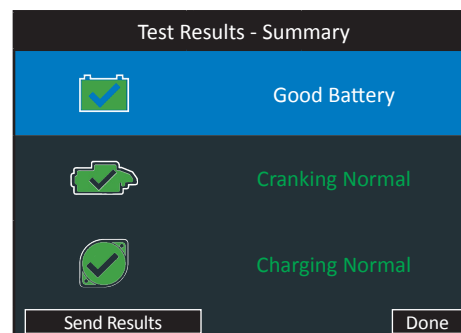
The tester tests the alternator output.

7. When prompted, rev and hold the engine to between 2000 to 3000 rpm.

The tester tests the alternator output again.

8. When prompted, idle the engine and select **Next**.

System Test Results



Test Results - Summary

The Test Results-Summary screen is displayed following a system test. Select the Battery, Cranking, or Alternator Test to view detailed test results for each part of the test.

To send the test results to a configured printer or via email select **Send Results**. Select **Done** to return to the Main Menu.

Tap the icons at the top of the display to view specific test results.

Consult Appendix: Decision Tables in the User Manual for a complete explanation of all possible test results.

Consent to Collection and Use of Data:

The user of this tool consents that Midtronics may collect, store, transmit, and use technical data and related information, including but not limited to technical information about this device, system and application software, test results, and accessories. This information is gathered regularly to facilitate the provision of product support, product improvements, product development, and other services related to the use of this battery and electrical system tester. The technical data and related information are in a format that does not allow the personal identification of the user.

MIDTRONICS

www.europe.midtronics.com

MIDTRONICS HEADQUARTERS

Willowbrook, IL USA
Phone: 1.630.323.2800

Canadian Inquiries
Toll Free: +1 1 866 592 8052

MIDTRONICS B.V. EMEA

European Headquarters
Houten, The Netherlands
Serving Europe, Africa, the Middle East
Phone: +31 306 868 150

MIDTRONICS CHINA

China Operations
Shenzhen, China
Phone: +86 755 2374 1010

MIDTRONICS INDIA

Navi Mumbai, India
Phone: +91 22 27564103/1513

Asia/Pacific (excluding China)
Contact Corporate Headquarters
Phone: +1.630.323.2800