



No.: 18 TL-5
May 30, 2018

TO: Service Locations

FROM: Aftermarket Service Diagnostics & Tools

SUBJECT: **BCT-460DTNAK PowerNet Assessment Tool**

GENERAL INFORMATION

In an effort to reduce the complexity of PowerNet diagnostic, the Special Tools Group has developed an electronic PowerNet assessment tool. This tool is for the diagnostics of the starter, alternator, batteries and heavy electrical cables. The tool provides a completed PowerNet assessment worksheet, after all tests have been completed. The form is uploaded to a website called AmpNet, which is managed by the supporting tool location. AmpNet login is required to access the test results from the BCT-460DTNA tool. See below for AmpNet login set up procedure.

To get the completed PowerNet form, the tool must be properly used and the PowerNet test must be completed. The test must be resumed after a failed component is identified and repaired/replaced to receive the completed PowerNet Form. The completed form must be submitted with the warranty claim, with the test results of a failed component. For the submitting dealer not to receive a charge back claim, for any "No Defect Found" component.

The test must be resumed after a failed component is identified and repaired/replaced to receive the completed PowerNet Form.

In order to have the latest work procedures, make sure to check and update the firmware before using the BCT-460DTNA

BENEFITS OF THE BCT-460DTNA POWERNET ASSESSMENT:

- Single person operations.
- AMPNET data download capability.
 - o Tester to complete PowerNet test form and send form to AMPNET. For supporting location to have the ability to download. Test are always available, and never get deleted.
 - o Ability to remotely update the tool's firmware via the Wi-Fi network.
- Performs PowerNet Test.
 - o Tests **MUST BE** resumed after a failed component is identified and repaired/replaced to complete the PowerNet Form.
- Battery Testing.
 - o Ability to test individual batteries.
 - o Ability to test battery pack.

- Starter testing.
 - o Ability to test and record cranking voltage.
 - o Ability to test and record cranking current.
 - o Ability to record average cranking speed.
 - o Ability to record cranking time.
- Charging test.
 - o Ability to test and record up to 450 amps.
 - o Ability to test and record voltage regulation.
 - o Ability to test and record ripple current.
 - o Ability to test and record output current.
- Cable voltage drop test.
 - o Ability to test and record values of heavy electrical cables. This would include the starter, alternator, and battery interconnect cables.

What the kit contains:

- Control Module 7" Tablet, Bar Code Read Ready (CM)
- Load Module (LM)
- Docking station
- 20' Voltage Drop Test Lead Set
- Alternator Adapters (3)
- Battery Adapters (2)
- Starter adapters (2)
- Instruction Manual (On Tablet)
- Quick Start Guide (laminated in box)
- AMPNET reporting software



Control Module (CM)



Load Module (LM)

REQUIRED ACTION

In order to take full advantage of the tool. The tool will require a connection to Wi-Fi. AMPNET is the website required to access tool test results, and PowerNet form.

Setting up AMPNET account

- Go to the following link and fill out required information
 - o <https://dtna.autometer.com/signup>
- You will receive an email with a link to AMPNET. Activate your account on AMPNET.
- After activating your account on AMPNET, continue to the next step Connecting Tool to Wi-Fi.

Connecting the tool to Wi-Fi.

- Charge tool before proceeding.
- Power tool on. This is done by pressing and holding red button on the side of the tablet. Once the tool is powered on. Verify that the Load Module (LM) and Control Module (CM)

are connected. To verify this, click on the 3 dots  in the upper right corner of the screen on the CM. Select "Battery Status". Verify that there is voltage showing for both the Load Module (LM) and Control Module (CM). Exit out to the main screen.

- Select Settings.
- Scroll down until you see the Wi-Fi setup. Select the Wi-Fi set up and connect to the recommend wireless network for your location. Wi-Fi connections setup is the same procedure as any Android tablet method.
- Exit back to the main screen.

- Select the blue box that says "DTNA PowerNet" 
- A prompt will come up to enter the Location Code of your facility. This is the same code used during AMPNET Account signup. Once successful, the tool is ready for use.
 - o To verify that the tool has accepted the location code. Login to the AMPNET website at dtna.autometer.com by accessing the Equipment Status Overview page. The tester will report its status when it is in sleep mode. To force Sleep Mode, press and release the Red power button on the side of the CM.
 - o Use the Update Firmware menu to force it to update the firmware. Always select the CM first, if available. The tester automatically checks for new updates and if found, will turn the Update Firmware menu red. Then prompt the on screen reminder.
- The tool is now ready to start performing PowerNet test. The tool manual can be found

on the testers drop down (3 dots)  menu or in PDF format from AMPNET website under the Utilities/Guides menu.

- After a PowerNet test has been completed. There will be a prompt at the end of the test stating that the test was sent to AMPNET.
 - o In order to get a completed PowerNet test worksheet. The test may need to be resumed. This would be if a failed component was detected by the tool. The tool will not let you complete the test, if a failed component is found. The component will need to be repaired. After repairs are performed. Continue the test by selecting the "DTNA PowerNet" and select "Resume". Find the test by selecting the VIN for the test to be resumed.

How to complete a DTNA PowerNet Form

- Use the BCT-460DTNA and select the Blue Button that says DTNA PowerNet



- Follow the prompts to guide you thru the steps for completing a PowerNet form.
- After a faulty component has been repaired. The test must be resumed to complete the PowerNet test, and have access to the PowerNet form. Only after the PowerNet is completed, will it be available on AMPNET.

ORDERING INFORMATION

This tool is essential and will be automatically shipped and invoiced to your facility during the month of May 2018. Additional tools can be ordered through Paragon using a DDE supplier prefix:

Part Number

- DDE BCT-460DTNAK ADVANCED POWERNET DIAGNOSTIC TOOL-KIT

Replacement Parts

- DDE AC-90 Charging Station
- DDE AC-94 20' Voltage Drop Lead Set
- DDE AC-105 Replacement Clamps and Lead Set
- DDE AC-107 Adaptor Kit
- DDE AC-108DTNA Replacement Control Module (CM)

CONTACT INFORMATION

Please e-mail detroittoolwarranty@daimler.com if you have any questions.

AMPNET Support

AMPNET Support Team

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Email - AMPNET.help@autometer.com

Phone - (844)2-AMPNET or (844) 226-7638

AMPNET Link - <https://dtna.autometer.com>