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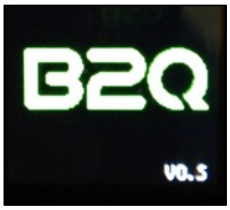
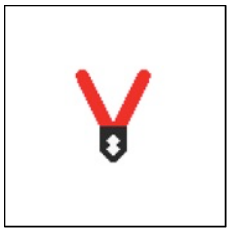
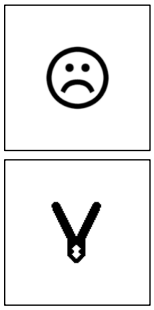
v2018.1

B1 Tester Screens Guide

The B1 Tester is designed to function as both a standalone service lane tester, and in combination with B2QScan software for more advanced test details, recommendations and data management. This guide will help you interpret the screens displayed by the B1 tester. Please note the Eink display has persistence, meaning that if you disconnect the tester from the battery, the last screen displayed will persist even without energy supplied to the tester. This is convenient especially when performing tests in hazardous or harsh conditions, or in adverse lighting conditions. In those cases, the tester may be disconnected while it is displaying the QR test code, then scanned with the B2QScan app in more favorable locations, such as a mobile battery service vehicle cabin.

B1 Color LCD	B1e Eink	Description
		***Power-on "boot" screen*** When the tester is first connected to a battery the B2Q logo and tester firmware version is displayed for a few seconds, and the firmware version is indicated on the lower part of the screen. Please note that if the **B1e Eink** display remains "stuck" on a static display from a previous test sequence when attached to a known-good battery, a cable replacement should be attempted prior to requesting an RMA.
		***Test for good connection screen*** B1 with color LCD display: An animated battery clamp indicates a poor connection to the battery. If this appears, un-clamp the tester, clean all connection surfaces, and re-clamp the tester with maximum clamp teeth surface in contact with the battery lead (Pb) terminals. If the animated clamp screen continues to reappear for more than **3 consecutive** re-clamp attempts, please contact support. B1e with Eink display: A frown or clamp screen indicates a poor connection to the battery. If either screen appears, un-clamp the tester, clean all connection surfaces, and re-clamp the tester with maximum clamp teeth surfaces in contact with the battery lead (Pb) terminals. If either screen continues to reappear for more than **3 consecutive** re-clamp attempts, please contact support.
		***Resting battery test screen (QR test code)*** B1 with color LCD display: A QR test code containing resting battery test data is displayed. If only resting battery test data is desired, scan the QR test code with the B2QScan software for analysis and recommendations. B1e with Eink display: A QR test code containing resting battery test data is displayed, while the lower left text alternates between voltage, estimated Wet CCA, and estimated AGM CCA. If only resting battery test data is desired, Scan the QR test code with the B2QScan software for analysis and recommendations. Otherwise, the cranking (key) icon is a prompt to start the automobile to add cranking and charging system test data.
		***Resting battery test screen (text only)*** B1 with color LCD display: Text test data alternates with the QR code. The battery resting voltage, estimated Wet CCA, and estimated AGM CCA ratings are displayed. The cranking (key) icon is a prompt to start the automobile to add cranking and charging system test data.

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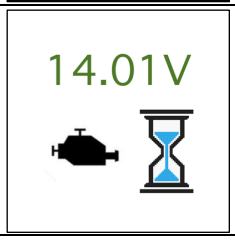
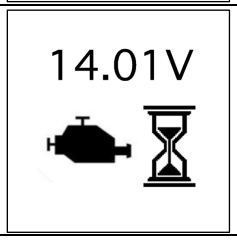
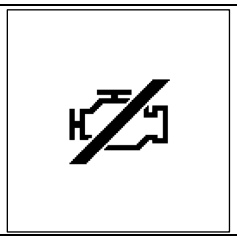
		***Cranking screen – Cranking system test*** Upon starting the automobile, a cranking test is performed, and the lowest voltage sensed during the start is displayed.
		***Charging screen – Charging system sampling*** The tester samples the voltage and diode ripple frequency as the charging system ramps-up. This screen may display for several seconds until the final sample is taken.
		***Complete Resting/Cranking/Charging test screen (QR code)*** B1 with color LCD display: A QR code screen containing resting battery, cranking system and charging system test data is displayed. Scan the QR test code with the B2QScan software for analysis and recommendations. B1e with Eink display: The checker flag confirms an engine start, and that both cranking and charging test data were added to the resting battery data. A QR test code containing resting battery, cranking system, and charging system test data is displayed, while the lower left text alternates between charging voltage, estimated Wet CCA, and estimated AGM CCA. Scan the QR test code with the B2QScan software for analysis and recommendations.
		***Complete Resting/Cranking/Charging test screen (text only)*** The checker flag confirms an engine start, and that both cranking and charging test data were added to the resting battery data.
		***Stop-engine screen*** If you attempt to connect the tester to the battery while the engine is running, an icon will prompt you to stop the engine then reconnect the tester.

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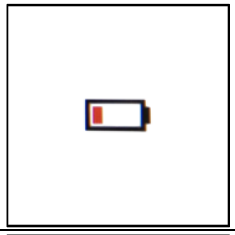
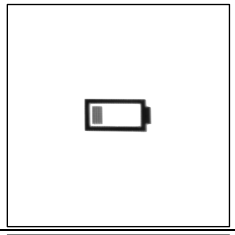
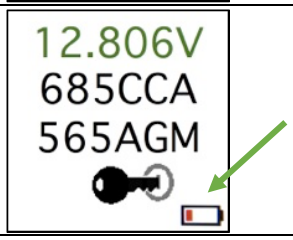
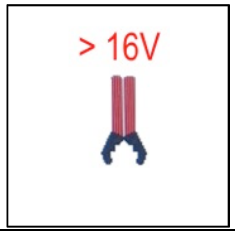
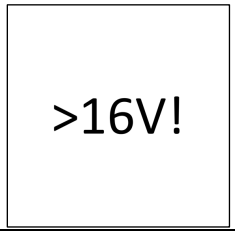
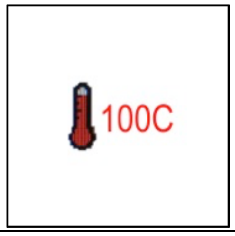
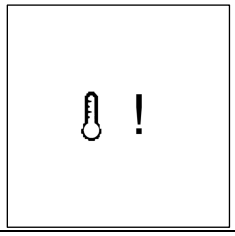
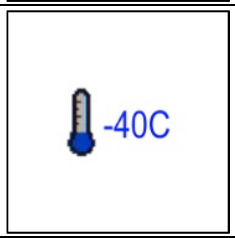
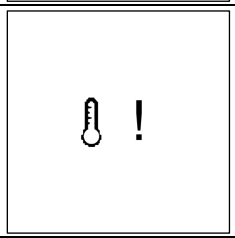
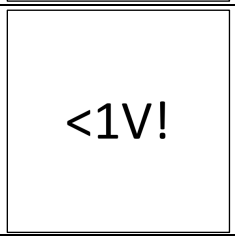
		***Install an internal 9V battery screen*** The icon prompts you to install a fresh internal 9V internal battery, which is required for testing highly discharged batteries.
		***Low internal 9V battery indicator*** The low battery icon prompts you to replace the internal 9V battery with a fresh one. On the B1e display, the low internal 9V battery icon will alternate with the cranking (key) icon.
		***High-voltage screen*** An animated clamp icon with ">16V" text is displayed if the battery voltage exceeds 16V. The tester is designed to test single 6,8, and 12V lead acid batteries. DO NOT attach the tester to any battery rated for > 12V, or damage to the tester may result!
		***High temperature screen*** A high temperature warning screen appears if the battery surface temperature exceeds 80C. Move the battery to where the ambient temperature range is -10C to 60C, and retest after 15 minutes. If this icon persists when the tester is being operated in the rated temperature range of -10C to 60C, replace the cable set. If the icon persists after a cable replacement, please contact B2Q support for an RMA.
		***Low temperature screen*** A low temperature warning screen appears if the battery surface temperature is below -20C. Move the battery to where the ambient temperature range is -10C to 60C, and retest after 15 minutes. If this icon persists when the tester is being operated in the rated temperature range of -10C to 60C, replace the cable set. If the icon persists after a cable replacement, please contact B2Q support for an RMA.
		***Very low voltage tested battery screen*** The discharged battery icon indicates the battery being tested is discharged to below 1V, and should be recharged prior to testing. If the discharged battery icon reappears after recharging, the battery is end of life.
		***Very low voltage tested battery screen (firmware version 1.0 and earlier only)*** The discharged battery icon indicates the battery being tested is discharged to the 1-3.9V range, and should be recharged prior to testing. If the discharged battery icon reappears after recharging, the battery is end of life.