

100ABT

100A Battery Tester Instructions



READ ALL INSTRUCTIONS AND WARNINGS BEFORE USING THIS PRODUCT.

This manual provides important information on proper operation & maintenance. Every effort has been made to ensure the accuracy of this manual. These instructions are not meant to cover every possible condition and situation that may occur. We reserve the right to change this product at any time without prior notice.

**IF THERE IS ANY QUESTION ABOUT A CONDITION BEING SAFE OR UNSAFE,
DO NOT USE THIS PRODUCT!**

DO NOT RETURN THIS PRODUCT TO THE RETAILER - CONTACT CUSTOMER SERVICE.

If you experience a problem, have questions or need parts for this product, visit our website <http://www.proseriesbrand.com> or call Customer Service at 1-888-287-6981, Monday-Friday, 8 AM - 4 PM Central Time. A copy of the sales receipt is required.

**KEEP THIS MANUAL, SALES RECEIPT & APPLICABLE WARRANTY FOR FUTURE REFERENCE
FOR CONSUMER USE ONLY - NOT FOR PROFESSIONAL USE.**

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IMPORTANT SAFETY INSTRUCTIONS

WORK AREA

WARNING

Keep your work area clean and well lit. Cluttered work benches and dark work areas may cause accidents or injury.

Do not operate power tools in explosive areas, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.

Keep bystanders, children and visitors away while operating a power tool. Distractions can cause you to lose control.

TOOL USE & CARE

CAUTION

Use clamps or other practical ways to secure and support the workpiece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.

Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

Do not use the tool if the power switch does not turn it "ON" or "OFF". Any tool that cannot be controlled with the switch is dangerous and must be repaired.

Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.

DANGER

People with pacemakers or other electronic devices should consult with a physician before operating this product. Interruption or failure of the pacemaker could occur when electrical equipment is operated within close proximity of electrical devices.

WARNING

Inhaling dust created as a result of construction projects could be hazardous to your health. Construction dust may contain chemicals, which are known to cause cancer, birth defects and other reproductive harm in the State of California.

These chemicals could be, but are not limited to: lead from lead based paints, crystalline silica from bricks or cement, arsenic, and chromium from chemically treated-lumber.

To reduce your risk of exposure to harmful materials: always wear a dust mask that is designed to filter out hazardous microscopic contaminants, always work in a well ventilated area, and wear other approved safety equipment.

WARNING

WARNING: CALIFORNIA PROP 65: According to the State of California, this product contains or emits chemicals known to cause cancer, birth defects and other reproductive harm. Wash hands after handling the power cord. Touching the power cord could expose you to lead, which is known in the State of California to cause cancer, birth defects and other reproductive harm.

WARNING

All work areas should be clean and well lit. Accidents are more likely to occur in poorly lit and cluttered areas.

WARNING

Do not operate power tools in the presence of flammable liquids, gas, or dust. Sparks created from the power tool could ignite flammable materials.

⚠ WARNING

Keep children, and other distractions at a distance while operating power tools.

NOTE

Only qualified repair personnel must perform tool service. Service or maintenance performed by unqualified personnel could result in a risk of injury.

⚠ WARNING

ANSI Safety glasses and ear protection must be worn during operation.

⚠ WARNING

Do not connect in reverse polarity.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

Before using you need to become familiar with the operation of the tool. If you are unsure about the operation of the tool, or have any questions about the proper use of the tool, call Customer Service at 1-888-287-6981.

Follow these instructions for safe handling of the tool:

- Always secure and support the work piece using clamps. **Do not use your hands to hold the piece in place.**
- **Do not use solvents containing carbon tetrachloride, ammonia or acetone to clean the tool.** Never use gasoline, paint thinner, or other caustic chemicals that can damage the plastic parts of the tool.
- **Always use the appropriate safety gear when operating this tool.** Including but not limited, to goggles, dust mask or respirator. Always work in a well-ventilated area to reduce your exposure to harmful chemicals and dust particles.

Testing The Battery

1. Clean the battery terminals with a cloth to remove dirt and grease.
2. Connect the Red Cable Clamp (positive) to the positive terminal (+) on the 6 or 12V lead-acid battery.
3. Connect the Black Cable Clamp (negative) to the negative terminal (-) on the battery.
4. The gauge will show the current charge. If it is less than 12V, disconnect the battery and recharge before testing. If the recharging will not bring the reading above 12V, the battery is defective. If it shows no reading, verify that the tester is connected properly. If the tester is connected properly, the battery is defective.
5. Press and hold the Toggle Switch for at least 5 seconds to simulate an actual load on the battery.
6. View the Meter Display and read the battery condition. Refer to the "Battery Condition Analysis".
7. Switch the Toggle Switch and remove the Cable Clamps from battery.

Testing the Charging System

AVOID CARBON MONOXIDE POISONING. This gas comes from the vehicle's exhaust and is colorless and odorless. It can cause SERIOUS INJURY or DEATH if inhaled.

1. Connect the Cable Clamps to the battery as previously described.
2. Outside, or in a well ventilated area, start the vehicle engine and run at fast idle speed.
3. View the Meter Display. Read the charging system condition (far right on the gauge). Refer to the "Battery Condition Analysis".
4. Turn vehicle's engine off, then remove Cable Clamps.

Testing the Starter

NOTE: The engine should be at normal operating temperature and the battery should be fully charged before doing this test.

1. Connect the Cable Clamps to the battery as previously described.
2. Disable the ignition so the engine will not start. (Refer to your vehicle's manual.)
3. Have an assistant crank the engine.

Load Test / 15 Seconds (Display Reading)	Battery Condition Analysis
OK (Green Area)	Battery capacity is good. May or may not be fully charged. Check the charge state by testing the Specific Gravity (SG) with a Hydrometer (not included). If SG is less than full charge, check for possible charging system trouble. Recharge to full level.
Weak (Yellow Area)	If the Display Meter needle is steady, the battery capacity is not good. Battery may be defective or partly discharged. Check SG. If over 1.225, the battery is defective. If below 1.225, recharge battery and retest. If there is a difference in SG between cells over 2 points (0.025), a particular cell may be damaged. If charging does not bring SG to full charge level, then battery is either sulfated or has lost its active material.
Bad (Red Area)	If the Display Meter needle is falling, the battery is defective or has a bad cell. For a quick check, release the load Toggle Switch and note Display Meter reaction. If voltage recovers to its full potential after only a few seconds, the battery is probably defective. If the voltage recovers slowly, the battery may only be run down. Check SG, recharge and retest.
Charging System (Alt. & Reg Test)	If the Display Meter needle reads OK, charging system is functional. If it falls on the low red or high red areas, charging system may be malfunctioning.

FEATURES

100 AMP
 Test 6V or 12V batteries
 Test 50A, 100A, 125A
 Check 6-12V Battery w/ Max. Capacity 1000CCA(Ah)
 50/100/200/4000/600/800/1000 Ah Indication at Meter
 Charging Voltage: 16v Max
 Heavy Duty CCA Wire
 40/60/80/Full Capacity Indicated at Meter For Battery Power Remaining

Test Cycle: Test in 10 seconds (1 minute cool down; 3 tests in 5 minutes)

Accuracy for Battery Voltage Test $\leq 2.0\%$
 Single-Way Safe Load Switch W/ Self-Return
 Test complete charging system including alternator, regulator, and battery
 Test starter motor for excessive draw
 Color-coded voltage meter for easy reading

