

# PROFESSIONAL DIGITAL CIRCUIT TESTER

Stock Number W2992

## OWNERS MANUAL

### **▲ WARNING**

*It is the owner and/or operators' responsibility to study all WARNINGS, operating, and maintenance instructions contained on the product label and instruction manual prior to operation of this tool. The owner/operator shall retain product instructions for future reference.*

*The owner and/or operator are responsible for maintenance, maintaining all decals or warning labels and while in use, maintaining the unit in good working order. If the owner and/or operator are not fluent in English, the product warnings and instructions shall be read and discussed with the operators' native language by the purchaser/owner or his designee. Make sure that the operator comprehends its contents. Safety information shall be emphasized and understood prior to usage. The tool shall be inspected per the operating instructions.*

*Protect yourself and others by observing all safety information.*

*Failure to comply with instructions could result in personal injury and/or property damage!  
If you encounter any problems or difficulties, please contact our customer service department at:  
1-800-426-1262 between 6:30 a.m. and 4:30 p.m. Pacific time.*

### **1 YEAR LIMITED WARRANTY**

PERFORMANCE TOOL® extends only the following warranties, and only to original retail purchasers. These warranties give specific legal rights. Except where prohibited by local law, the law of the State of Washington governs all warranties and all exclusions and limitations of warranties and remedies. There may be other rights which vary from state to state. PERFORMANCE TOOL® warrants the product to be free from defects in materials and workmanship under normal use and service. A defective product may be returned for a free replacement within 90 days from the date of purchase, provided that product is returned to place of purchase immediately after discovery of defect. After 90 days and up to one year from date of purchase, PERFORMANCE TOOL® will replace at no charge any parts which our examination shall disclose to be defective and under warranty. These warranties shall be valid only when a sales receipt showing the date of purchase accompanies the defective product or defective part (s) being returned. For part (s) after 90 days, please remit your request, postage prepaid to: PERFORMANCE TOOL, P.O. Box 88259 Tukwila, WA 98138

These warranties exclude blades, bits, punches, dies, bulbs, fuses, hoses, and other consumables which must be replaced under normal use and service. These warranties shall not apply to any product or part which is used for a purpose for which it is not designed, or which has been repaired or altered in any way so as to affect adversely its performance or reliability, nor shall these warranties apply to any product or part which has been subject to misuse, neglect, accident or wear and tear incident to normal use and service.

PERFORMANCE TOOL® does not authorize any other person to make any warranty or to assume any liability in connection with its products.

Except for warranties of title and the limited express warranties set forth above, PERFORMANCE TOOL® makes no express or implied warranties of any kind with respect to its products. In particular, PERFORMANCE TOOL® makes no implied warranty of merchantability and no implied warranty of fitness for any particular purpose, except that for goods purchased primarily for personal, family or household use and not for commercial or business use, PERFORMANCE TOOL® makes an implied warranty of merchantability (and, if otherwise applicable, an implied warranty of fitness for a particular purpose), but only for the particular qualities or characteristics, and for the duration, expressly warranted above.

The laws on limitation of implied warranties may differ from state to state, so the above limitations may not apply in all cases. PERFORMANCE TOOL® shall not be liable for consequential, incidental or special damages resulting from or in any manner related to any product, or to the design, use, or any inability to use the product. The sole and exclusive remedy for a defective product or part shall be the repair, or replacement thereof as provided above. The laws on limitation of remedies or on consequential, incidental or special damages may vary from state to state, so the above limitations may not apply in all cases.

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On occasion, after printing of our literature is completed, our manufacturers may make changes and/or modifications to merchandise which will not be reflected in this manual. Although we strive to maintain complete and accurate information, it is possible in some instances, that the product may differ slightly from printed specifications. Illustrations are intended for reference only. Actual merchandise may vary. Willmar is not responsible for typographical errors.



Please read these instructions carefully and retain them for future use.

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## SPECIFICATIONS

### NOT AIRBAG SAFE

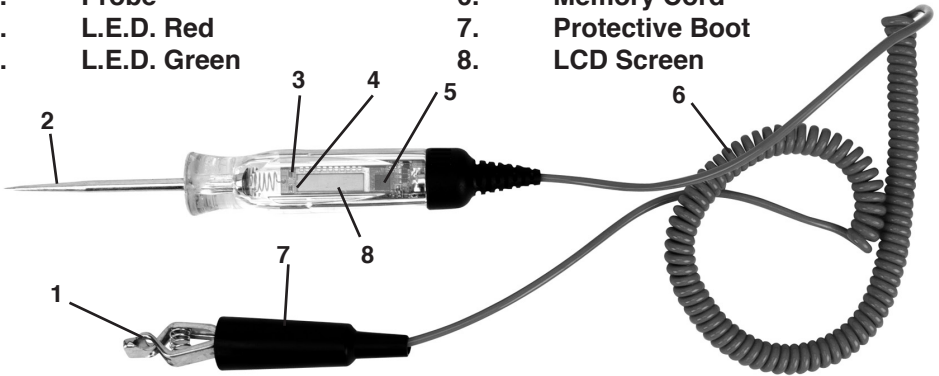
Range:	6 to 48V (DC)
Accuracy:	±0.3V
Red LED:	Power Connection
Polarity:	Bi-Directional
Surge Protected:	Yes
Clip:	Large Solid Copper
Shank Length:	3.5 inches (8.9 cm)
Computer Safe:	Yes

### NOT A JUMPER LEAD

Resolution:	0.1V (DC)
Display type	Backlit 200 count LCD
Green LED:	Ground Connection
Operating Temp.:	0° to 120° F (-18° to 50° C)
Coiled Cord Length:	12ft. (14 m)
Shank Material:	Stainless Steel
Weight:	0.4 lbs. (0.18 kg)

## DESCRIPTION

- |    |                     |    |                        |
|----|---------------------|----|------------------------|
| 1. | <b>Spring Clip</b>  | 5. | <b>Logic Processor</b> |
| 2. | <b>Probe</b>        | 6. | <b>Memory Cord</b>     |
| 3. | <b>L.E.D. Red</b>   | 7. | <b>Protective Boot</b> |
| 4. | <b>L.E.D. Green</b> | 8. | <b>LCD Screen</b>      |



**▲ WARNING!** Do Not use diagnostic equipment on or near rotating engine parts. Entanglement or flying parts may occur.  
Do Not use as a screwdriver, pry bar, chisel or punch.  
Wear Safety Goggles (Users and bystanders).  
This digital LCD circuit tester is designed to detect voltage, power and ground integrity.

**▲ WARNING!** Test lights can set off a supplemental restraint system if the wrong wires are probed. These wires are generally, but not always, marked with a yellow loom or tape and likely have yellow connector housings. If you probe one of these wires, which could be in ANY factory wiring harness in your vehicle, you could set off one or all of the airbags.

## INSTRUCTIONS

### TEST FOR CIRCUIT GROUND:

1. Connect the Spring Clip (1) to a good power supply.
2. Touch the pointed probe (2) to circuit terminals, wires or chassis to locate grounds.
3. The green LED (4) illuminates and the LCD will display the measured voltage as a negative number at good ground connections.

### TEST FOR CIRCUIT POWER:

1. Connect Spring Clip (1) to a good chassis ground.
2. Touch the pointed probe (2) to a circuit terminal or wire.
3. The red LED (3) illuminates and the LCD will display the measured voltage if the terminal has power.