


OPERATION INSTRUCTIONS

1. Press and hold on the power switch for about 3 seconds to turn on the camera, the power indicator will illuminate and the LCD will become viewable.
2. When in use, the flexible extension should easily maneuver itself into position. Do not apply excessive force.
3. The flexible extension can be bent into numerous shapes that may help you explore areas you otherwise thought were impossible to see.
4. The accessories included with inspection cameras can be used to retrieve small items like dropped rings or screws.

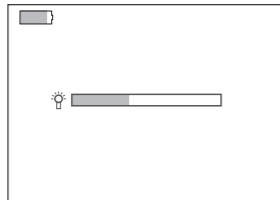
USING MIRROR IMAGE:

In real-time monitoring mode, the mirror image can be adjusted by pressing the  button.



LEDS BRIGHTNESS CONTROL:

The LED brightness can be adjusted by pressing the brightness button in real-time monitoring.



LCD CONTRAST CONTROL:

The level of LCD contrast can be adjusted by pressing the contrast button in real-time monitoring.



FCC INFORMATION

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:


- (1) This device may not cause harmful interference;
- (2) This device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

ENVIRONMENTAL PROTECTION

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority or retailer for recycling advice.



TROUBLESHOOTING

| Problem: | Solution: |
|---------------------------|---|
| No image | Check for LED indicator light. If not on, hold the power button down for at least 3 seconds until light comes on. |
| No image | Check for proper installation of batteries. Replace batteries with a fresh set if necessary. |
| No image | Check for any obstructions on lens of camera. If in low light, try different light levels. |
| No image | Check for proper installation of the camera cable to body of the unit. |
| Picture upside down | Press the rotate image button  until desired view is achieved. |
| No video playback | Check connection between video output jack and video cord. |
| No video playback | Ensure RCA cable is inserted into proper video input jack. |

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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2.4 IN. LCD INSPECTION CAMERA

Item Number W50145

OWNER'S MANUAL



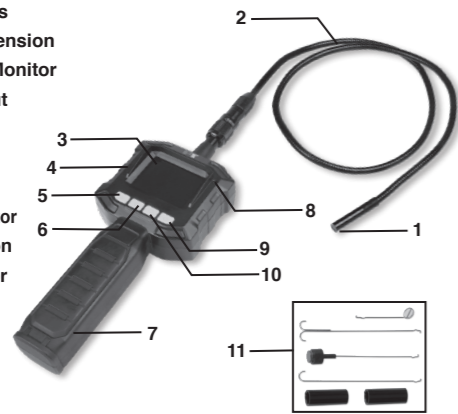
▲WARNING: READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE OPERATING THIS TOOL. FAILURE TO DO SO MAY RESULT IN PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID WARRANTY.

PT®
Performance Tool
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.

Performance Tool®

TOOL FEATURES

1. Camera Lens
2. Flexible Extension
3. Color LCD Monitor
4. Video Output
5. Contrast
6. Brightness
7. Handle
8. Power Indicator
9. Power Button
10. Rotate/Mirror
11. Accessories



SPECIFICATIONS

| | |
|---|--|
| Screen | 2.4 in. Color LCD Monitor |
| Camera Resolution | 320 x 240 VGA |
| Image Rotation | 180° |
| Image Sensor | 1/9 in. CMOS |
| Light Source | 4 White LEDs |
| Camera Size | 1/9 in. (8 mm) Diameter |
| Cable | 38 in. (96 mm) |
| Output | TV/video to RCA cable |
| Battery Type | 4 x AA 1.5V Alkaline (included) |
| Display Unit Operating Temperature | 32°F to 113°F |
| Imager Head & Cable Operating Temperature | 14°F to 176°F |
| Protection Rating | IP67 - Protected against the effect of immersion between 15 cm & 1 m |

Specifications are subject to change without notice.

SAFETY GUIDELINES / DEFINITIONS

This instruction manual is intended for your benefit. Please read and follow the safety, installation, maintenance and troubleshooting steps described within to ensure your safety and satisfaction. The contents of this instruction manual are based upon the latest product information available at the time of publication. The manufacturer reserves the right to make product changes at any time without notice.

▲WARNING: Read and understand this entire instruction manual before attempting to assemble, install, operate or maintain this product. Failure to comply with the instructions may result in serious personal injury and/or property damage!

The following signal words are used to emphasize safety warnings that must be followed when using this product:

▲DANGER: Indicates an imminently hazardous situation that, if not avoided, WILL result in death or serious injury.

▲WARNING: Indicates a potentially hazardous situation that, if not avoided, COULD result in death or serious injury.

▲CAUTION: Indicates a potentially hazardous situation that, if not avoided, MAY result in minor or moderate injury.

▲NOTICE: Indicates important information, which if not followed, MAY cause damage to equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

UNPACKING & INSPECTION

After opening the carton, unpack your new product and related parts & accessories. Please inspect it carefully for any damage that may have occurred during transit. Please check it against the photograph on carton. If any parts are missing, please call customer service at 1-800-426-1262 between 6 a.m. and 5 p.m. Pacific time.

▲WARNING: DO NOT operate this product if damaged during shipment, handling or misuse. Do not operate the product until the parts have been replaced or the fault rectified. Failure to do so may result in serious personal injury or property damage. All damaged parts must be repaired or replaced as needed prior to operating this product. If you have any questions, or require assistance with damaged or missing parts, please contact our factory customer service department at: 1-800-426-1262.

Please have the serial number, model number, and date of purchase available for reference when calling.

SAFETY INFORMATION

▲WARNING. READ, UNDERSTAND AND FOLLOW ALL INSTRUCTIONS AND WARNINGS BEFORE OPERATING THIS PRODUCT. FAILURE TO DO SO MAY RESULT IN FIRE, ELECTRICAL SHOCK, PERSONAL INJURY AND/OR PROPERTY DAMAGE AND WILL VOID WARRANTY.

- Wear ANSI-approved safety goggles during use.
- Before inspecting walls, shut off the circuit breakers to the whole house.
- Before inspecting pipes that may contain an electric charge, have them checked by a qualified electrician.
- Before inspecting an engine, turn off the automobile.
- Prevent liquid entry. Although the camera and cable of this item can be submersed the body of the tool cannot be submersed. Do not immerse handle portion of the camera in any liquids, or use in a rainy or otherwise wet environment. The camera head and cable are rated to IP67.
- This unit is not shock resistant. Handle product with care and do not drop or expose to impact.
- Turn off unit when not in use.
- Always use common sense and pay particular attention to all the **DANGER, WARNING, CAUTION** and **NOTICE** statements of this manual. The safety instructions provided are not intended to cover all possible conditions and practices that may occur when operating, maintaining and cleaning power tools.
- Do not operate the camera in explosive atmospheres, such as in the presence of flammable liquids, gases, or heavy dust.
- Keep work area well lit.
- Use personal protective equipment. Wear ANSI approved safety goggles. Protective equipment such as dusk mask, nonskid safety shoes, hard hat, heavy duty work gloves or hearing protection used for appropriate conditions will reduce personal injuries.
- Keep bystanders, children and visitors away while operating this product.
- This product is not a toy. Do not allow children to play with or near this item. Use as intended only.
- Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.
- Inspect tool before every use; do not use if parts are loose or damaged.
- Properly dispose of batteries once depleted. Do not dispose of in a fire. Check local regulations and follow proper disposal.

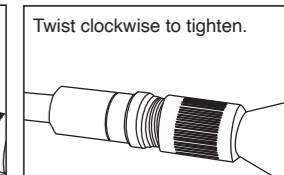
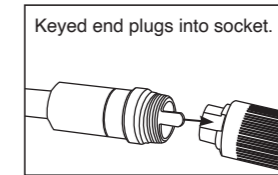
BATTERY INSTALLATION

1. Dry your hands before battery installation or replacement.
2. Remove battery cover.
3. Insert four (4) AA batteries into their appropriate slots, with proper orientation, as indicated in the battery compartment.
4. Replace battery cover.

ASSEMBLY INSTRUCTIONS

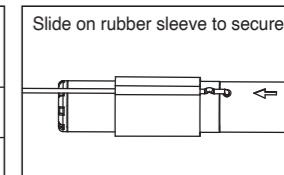
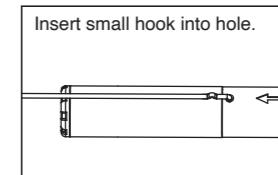
TO ATTACH CAMERA EXTENSION:

To connect the flexible extension and camera to the control handle, first make sure that the keyed end of the tube is aligned with the slot in the handle, then use slight force to push them together. Once properly aligned, twist the treaded knob clockwise until the connection is securely in place.



TO ATTACH ACCESSORIES:

The three (3) included accessories (mirror, hooks and magnet) are all attached to the camera in the same way as illustrated below.



VIDEO OUTPUT:

Insert video cable into the video out socket of the tool, insert the other end of the cable into the video in jack of any compatible TV or display device. The LCD monitor is now capable of outputting high quality video to the display.