



**Fiber Optic Inspection Tool**

**810**

**Test Products International, Inc.**



**The Value Leader**

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## A. INTRODUCTION

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1. Congratulations: Thank you for purchasing TPI products. The 810 is easy to use and built to last. It is backed by a one year warranty. Please remember to complete and return your product warranty registration card.
2. Product Description: The 810 is a fiber optic inspection tool used to look in confined or internal constricted areas previously deemed inaccessible. The 810 has a built-in LED light source for illuminating the viewing area and a 45 degree mirror for looking at sides and walls. Is is easy to use and fits comfortably in your hand.

## B. SAFETY CONSIDERATIONS

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### WARNING



#### **Read instructions before operating:**

Be sure these instructions accompany the tool when passed from one user to a new or inexperienced user.



**Risk of entanglement:** Turn off all moving parts before inserting fiber optic shaft.



### CAUTION

Do not bend fiber optic shaft into a tight radius. Damage to the glass fiber optics may result. Do not use internally on humans or animals.

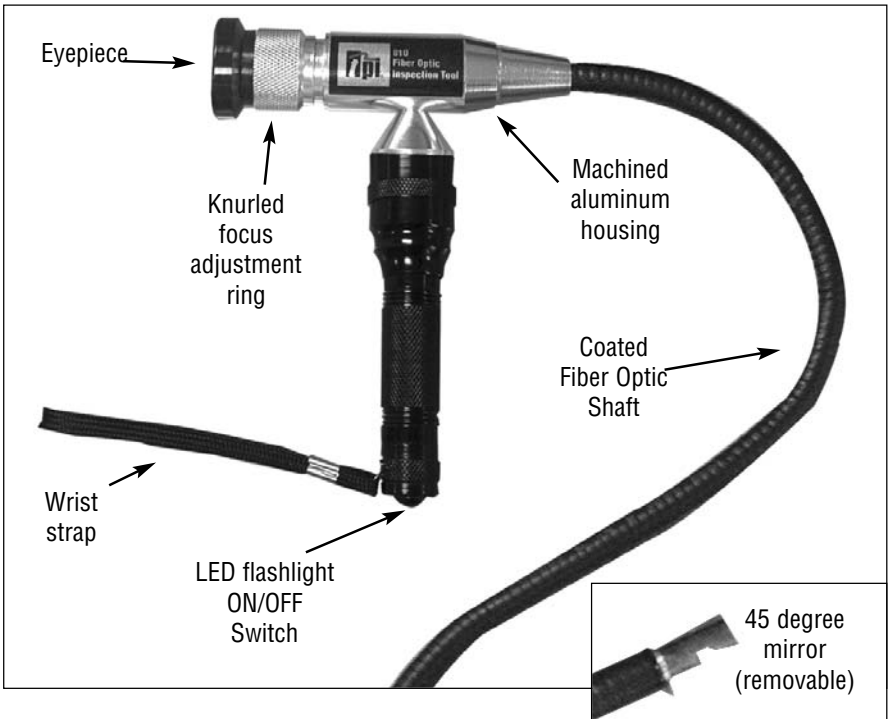
## C. TECHNICAL DATA

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<b>Field of View</b>	45°
<b>Image Size</b>	8000 pixels
<b>Scope Mirror</b>	45° machined brass + glass mirror
<b>Minimum Focus Distance</b>	1 inch (25mm)
<b>Focus</b>	Knurled focus adjustment ring
<b>Fiber Optic Shaft Diameter</b>	0.4 inches (10.2mm)
<b>Fiber Optic Shaft Length</b>	48 inches (1.2 meters)
<b>Maximum Bend Radius</b>	4 inches (100mm)
<b>Light Source</b>	7 super bright LED
<b>Light Power Supply</b>	1 each "AA" alkaline battery
<b>Battery Life</b>	36 hours continuous use
<b>Maximum Tip Temperature</b>	176°F (80°C)
<b>Resistant to Fluids</b>	Gas, Oil, Coolant, Water
<b>Operating Temperature</b>	50° to 120°F (10° to 60°C)

## D. OPERATING TECHNIQUES

1. Visually inspect the fiber optic shaft, lens and housing of the 810 making sure it is free from defects.
2. Test the condition of the light battery by depressing the ON/OFF switch on the end of the light housing. The light at the end of the fiber optic shaft should turn ON and OFF. If not, replace the "AA" battery.
3. Hold the light source handle in the left hand and the end of the fiber optic shaft in the right hand. Manipulate the focus ring with your thumb on your left hand.
4. Looking into the the lens on the housing, rotate the focus ring until you can see a honeycomb pattern (this shows each fiber optic cable in the lens) and you can bring it into sharp focus.
5. Insert the tip of the fiber optic shaft into the object to be observed. If there is not enough light to clearly see the object, press the ON switch at the end of the handle to turn on the LED light source.
6. If you want to look around corners or bends, pre-shape the fiber optic shaft before inserting it into the object.
7. Install the 45 degree mirror at the end of the fiber optic shaft if you need to look at the side or wall of the object.



## E. ACCESSORIES

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<u>Item #</u>	<u>Description</u>
<b>A002</b> .....	1.5 Volt "AA" Alkaline Battery
<b>A811</b> .....	45 Degree Glass Inspection Mirror
<b>A810</b> .....	Aluminum Carrying Case, Padded Interior
<b>A812</b> .....	Replacement LED Flashlight
<b>A813</b> .....	Replacement Carrying Case Key

## F. MAINTENANCE

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1. Clean the surface of the instrument with a damp cloth.
2. Clean the lens with gauze dipped in rubbing alcohol.
3. Replace the AA battery in the light source when low or dead.

## G. WARRANTY

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This product is warranted to the purchaser against defects in material and workmanship for one year from the date of purchase.

**Covered by Warranty:** Repair parts and labor; or replacement of the product at company's option. Normal transportation charges to the purchaser are also covered.

**Not Covered by Warranty:** Damages to the product which are the result of abuse, improper use or maintenance are not covered. Any other expense, consequential damages, incidental damages, or incidental expenses including damages to property are not covered. Transportation expenses to the company are not covered.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

**To Obtain Warranty Performance:** Include with the product: your name, address, phone number, written description of the problem and proof of purchase date. Carefully package and return to:

**TPI, Inc.**  
9615 SW Allen Blvd.  
Beaverton, OR 97005  
USA

**TPI, Ltd.**  
342 Bronte Rd. S., Unit 9  
Milton, Ontario L9T 5B7  
Canada

**TPI, Europe Ltd..**  
Longley House, East Park  
Crawley  
West Sussex RH10 6AP  
England

**Implied Warranties:** Any implied warranties including implied warranties of merchantability and fitness for a particular purpose, are limited in duration to three years from date of purchase. To the extent any provision of this warranty is prohibited by federal or state law and cannot be preempted, it shall not be applicable. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.