



**–OPERATING INSTRUCTIONS–  
INCANDESCENT PROBE LIGHT**

**BULLETIN 294  
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**PARKER RESEARCH CORP.**

NONDESTRUCTIVE TEST METHODS, SYSTEMS, INSTRUMENTS  
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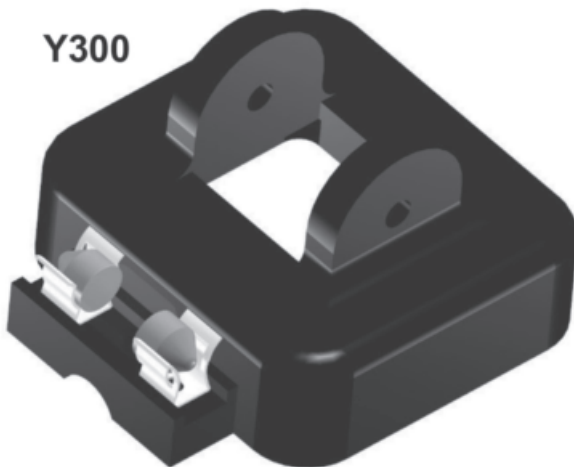
The Parker models Y300, Y400, YP20, and Y200 are secondary lights designed to fit Parker Contour Probes. The lights produce substantial close-in illumination for magnetic particle testing.

**Instrument Description:** The Parker Probe lights operate from the induction of the AC magnetic field produced by the Contour Probe. The light is molded from durable glass filled nylon which is extremely resistant to shock, wear and chemicals. There are no wiring connections necessary for installation.

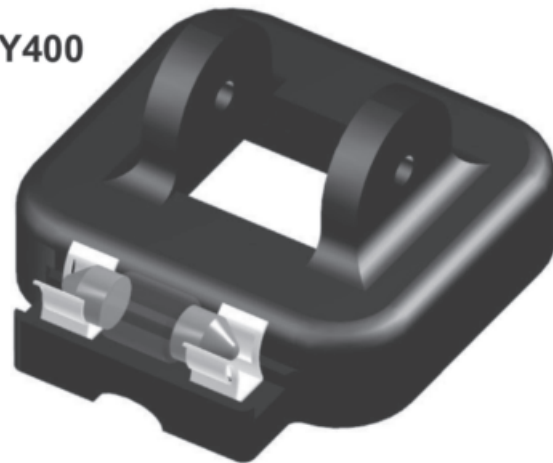
**SPECIFICATIONS**

<b>Contour Probe</b>	<b>Probe Lights</b>
B300, B310	Y300
DA400, B100	Y400
P2	YP20
B200	Y200

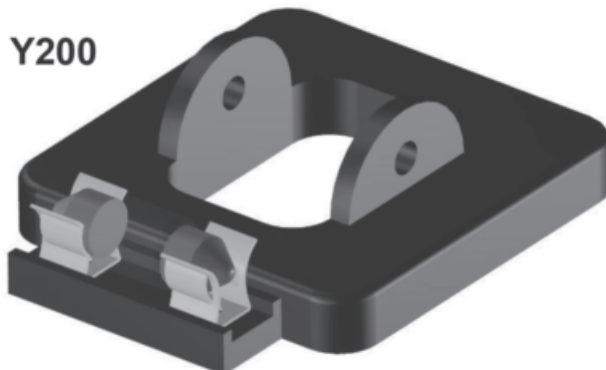
**Y300**



**Y400**



**Y200**



**YP20**




## GENERAL SAFETY RULES

Please read all instructions. Failure to follow all instructions listed below may result in injury. If the equipment is used in a manner other than as specified in these operating instructions, the protection provided by the equipment may be impaired. Always wear eye protection.

 **The Probe Light will not function from a DC or HWDC field.**

The outside housing should remain intact and solid. Any damage, chipping, or separating exposing internal wires is a hazard. Instruments should not be used in this condition. The outside housing should be periodically checked for damage.

### Pollution Degree: 2

 **Duty Cycle:** The lights are designed for a 50% duty cycle. Continuous operation may cause overheating and damage the lights.

**Operating Environment:** Temperature: 32° to 104°F (0° to 40°C). Relative humidity: 10% to 95%, non-condensing. Maximum altitude 6561ft.(2000M) above sea level. Dry location use only.

**Shipping and Storage Environment:** Temperature: 40° to 140°F (4.44° to 60°C). Relative humidity: 5% to 95%. Vibration and shock: As encountered in normal shipping and handling with no degradation.

### General Cleaning


The outside surface of the instrument can be periodically wiped clean with a clean cloth and a mild general purpose cleaner. Avoid using cleaners such as lacquer thinner, or mineral spirits that could damage the outside housing.

Never attempt field service.

**Operation:** Install the Probe Light onto the Contour Probe following the instructions on Page 3. To energize the Probe Light, depress the Contour Probe's power switch. This will activate the incandescent bulb. To de-energize the Probe Light release the Contour Probe's power switch.

**WARRANTY:** The Parker Probe Lights are warranted against malfunction due to defective material and/or workmanship. The defective unit will be repaired or replaced (less incoming freight charges) for a period of 90 days from the date of sale. This repair warranty does not apply to altered units. Repair or replacement of the defective unit will be made at the discretion of Parker Research Corporation. Repaired or replacement unit(s) will be returned to the original customer prepaid.

The obligation of Parker Research Corporation is limited to the repair or replacement of the defective unit. No other obligation is expressed or implied. Parker Research Corporation assumes no liability from any claims arising from the use of this equipment.

 **CAUTION:** For the correct and safe use of this equipment, training of operating personnel is required. Use of proper inspection procedures, standards compliance and safety requirements is the obligation of the user.

### Installation Instructions:

1. Remove existing screw and nut from rear Probe leg (closest to power cord).
2. Remove Probe leg.
3. Install Probe Light over leg attachment with light facing forward.
4. Reinstall rear Probe leg.
5. Insert new screw.
6. Attach washer and nut then tighten.

