



**MANUAL FL190**

**Dolan**  **Jenner**  
**Fiber-Lite<sup>®</sup>**  
**HIGH INTENSITY FIBER OPTIC ILLUMINATORS**

# INSTRUCTION MANUAL

**for Models 190  
Illuminators**

Your purchase of the Dolan-Jenner Fiber-Optic Illumination System will provide you with many years of service in a large variety of applications which require high intensity, yet cool illumination. Please read the following instructions to ensure that maximum performance is obtained from your system.



## INTRODUCTION

The 190-1 Fiber Optic Illuminator gives high-intensity "cold" light where you need it most. The fiber optics absorb heat and transmit high-intensity light, and the gooseneck light pipe lets you position the lens from a variety of oblique angles.

It is ideal for illumination in temperature-sensitive applications such as specimen preparation, dissection, culture work or micromanipulation. The illuminator can also be used in conjunction with a stereomicroscope lamp port for incident or transmitted illumination with or without the lens.

## FEATURES

A powerful 0.19 inch (4.8mm) diameter fiber optic that provides over 4,000 foot candles at a 6 inch distance in a 0.87 inch (22mm) diameter spot of high intensity "cold" light.

A 30 watt quartz-halogen vibrationless source (convection-cooled) at a color temperature of 3100 degrees K, suitable for tungsten film.

Gooseneck flexibility is excellent for multipositioning. The fiber optic light pipe always remains at the ambient temperature and is safely handled at all times to enable optimum positioning for reduced glare. This eliminates the possibility of burnt fingers on adjustment and, at the same time, increases eye comfort.

Convenient 28mm focal length, slide-lock lens which is quickly focused to provide light spot diameters from 0.16inches to 2.87 inches (4mm to 73mm).

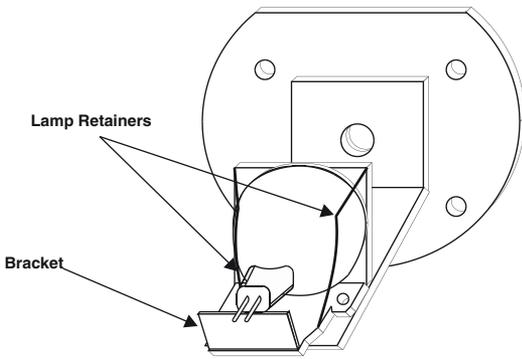
The four position light intensity switch offers easy light-intensity selections.

## CHANGING THE ILLUMINATOR LAMP

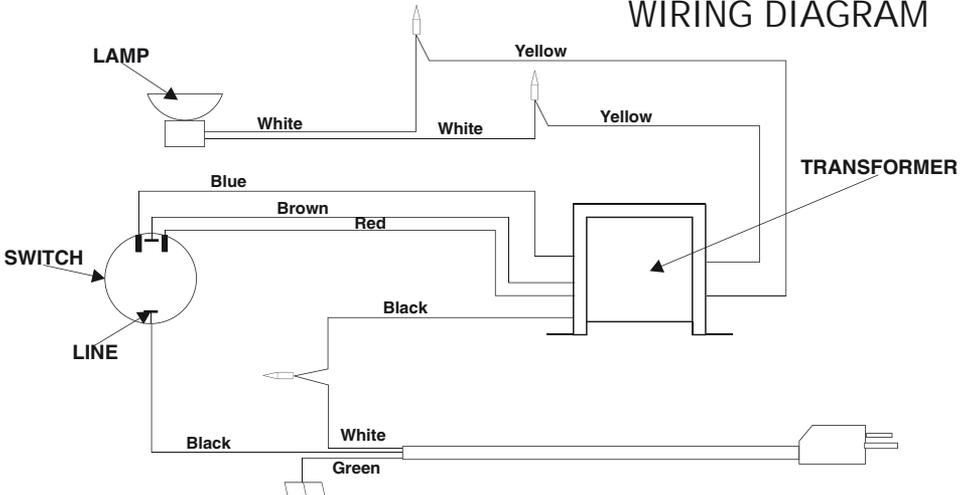
The following procedure outlines the steps necessary to replace the lamp.\*:

1. Unplug the illuminator from the wall socket before disassembling the unit.
2. If the light pipe must be removed to take off the cover, unscrew it by straightening it as much as possible and turning it counterclockwise while grasping it at the base. This step is only necessary if the light pipe is permanently mounted.
3. Remove the 4 button-head screws using a 5/64" Hex Allen wrench. Lift off the cover assembly slowly until the lamp is exposed.
4. Unplug the lamp from its socket.
5. After the lamp is disconnected unsnap it from the lamp retainers on the bracket. (Figure 1).
6. Reverse this process to install a new lamp.

\*Note: Use only EKZ replacement lamps.



## WIRING DIAGRAM



## PERFORMANCE STATEMENT

Dolan-Jenner Industries, Inc. (DJI) recognizes that its illuminator products may be used under an almost unlimited variety of conditions. As such, we are prepared to assist the customer in the selection and application of any of these products. This includes application engineering, sample testing and other means as determined by DJI.

Where DJI has made specific recommendation for its products, systems or detection techniques (based on complete and detailed information furnished by the customer), we will extend every effort to assure that the customer is satisfied with the performance of our products. Continual development and improvement of DJI products may require changes in details that do not coincide with descriptions or illustrations shown. All fiber optic bundle diameters are nominal.

### 3YEAR WARRANTY ON LIGHT SOURCES

Dolan-Jenner Industries, Inc. (DJI) warrants its products to be free from defective material and workmanship. Any light source or parts thereof which are determined by DJI to be defective within three years (average product life cycle) from date of shipment will be replaced or repaired at our option. This policy is effective AUGUST 1, 2005 and is not retroactive. All fiber optics are warranted for one year. This warranty specifically excludes both incandescent and quartz-halogen lamps and optical filters. Any products which, in our opinion, have been subjected to misuse, neglect, incorrect wiring, or where installation procedures are not in accordance with the instruction manual, are excluded from the warranty. Nor does this warranty extend to products on which repair or alterations have been made outside the factory, or on which the identification or serial number has been altered, or to accessories not of our manufacture. Our obligation with respect to products or parts covered by this warranty shall be limited to repair or replacement, F.O.B., Boxborough Massachusetts. In no event shall DJI be held liable for consequential or special damages, or for transportation, installation, adjustment, or other expenses which may arise in connection with such products or parts. This warranty is in lieu of all other statements or warranties or guarantees, written or implied, by DJI or its authorized representatives.

### REPLACEMENT PARTS- MODEL FL 1900

PART NO.	DESCRIPTION
02-015007-0000	Transformer
02-015851-0000	Lamp EKZ, 30W, 10.8V
02-015907-0000	Lamp Holder QEX-10
02-015908-0002	Lamp Holder, QCX-5
02-018202-0001	Switch

### Components for 220V, 50/60Hz

02-015004-0001	Transformer
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