



First in LEDs...The solid state warning light leader.™


# OPERATING INSTALLATION GUIDE MILLENNIUM 36", 49" & 60" MILLENNIUM 49" & 60" TOW



**NEVER INSTALL ANY ELECTRICAL  
DEVICE WITHOUT PROPER  
FUSE PROTECTION!**



**ALWAYS REMOVE POWER  
PRIOR TO ANY SERVICE  
OR REPAIR OPERATION**



**DO NOT BENCH TEST THIS  
PRODUCT USING AN AUTOMOBILE  
BATTERY CHARGER!**

## PRODUCT SPECIFICATIONS

Operating voltage: 12 –15 volts D.C.  
 Operating Current: 8-25A  
 Recommended fuse: 30 Amp

**ALWAYS FUSE  
THE POSITIVE  
(RED) WIRE!**

## PRODUCT FEATURES

### *Millennium 36", 49" and 60" Light Bars*

Designed to be an externally mounted emergency warning light, the Millennium Light Bar has the following benefits:

A variety of patterns equals completely customizable product configurations\*

- 25 flash patterns on both the leading and trailing edge
- Five halogen patterns
- Nine directional patterns
- Six end cap patterns

*\*Programmer Required (Sold at extra cost)*

A low profile, which gives you a low coefficient of drag

Low amperage

- Warning patterns draw 8 to 25 amps
- Directional patterns draw 4 amps (pattern dependant)

The required C.I.D. box is supplied for use as an interface for connection to switch systems.

### *Millennium 36", 49" and 60" Light Bars*

The externally mounted Millennium Tow bar light offers the following benefits:

A variety of warning and informational patterns

- For use on the front and rear leading and trailing edges
- Nine directional patterns

Stop, turn and taillights are integrated into the trailing edge

Low amperage

- Warning patterns draw 8 to 25 amps
- Directional patterns draw 4 amps (pattern dependant)

## MOUNTING

A variety of mounting kits are available. See the instructions included with your mounting brackets.

## WIRING

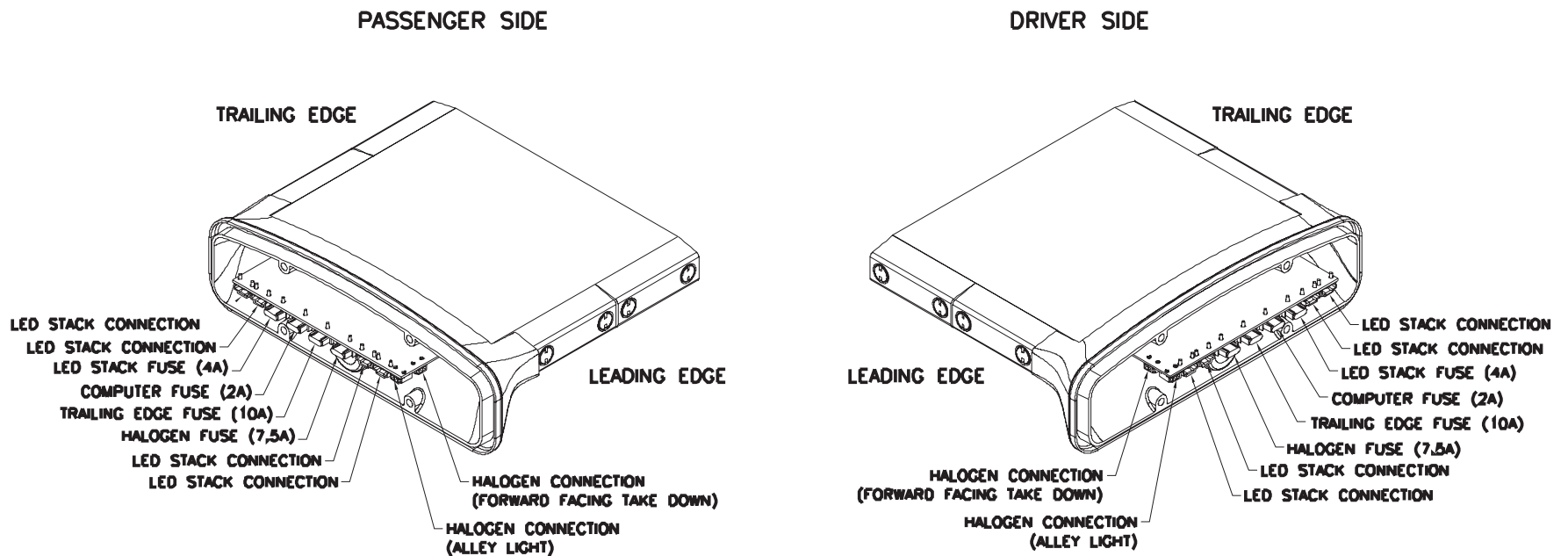
**Simplified wiring** from Millennium Light Bar to C.I.D. box

- Two (2) wires for power, Two (2) wires for communication, Quick release connectors from C.I.D. box control systems, Power and C.I.D. box

## FUSE REPLACEMENT & END CAP SOCKET IDENTIFICATION

Blown Fuse: Directly beneath each fuse is an indicator LED. In the event of a blown fuse (while in run mode) this LED will illuminate, indicating failure. Follow the instructions and diagrams below for fuse replacement.

- 1) Remove lens by following instructions on page 7.
- 2) Carefully remove fuse and inspect light bar for the problem. A type ATM mini-automotive fuse, 7.5A (brown), 2.0A (grey) will be needed as a replacement.
- 3) When the new fuse is inserted the indicator LED will shut off and the light bar will regain normal operation.
- 4) After testing, replace end cap lens as instructed on page 9.



# MOUNTING/WIRING THE MILLENNIUM

Prior to testing and installing the Millennium, visually check for any damage that may have occurred in shipping.

## **Bench Test**

911EP recommends bench testing the Millennium before installation to ensure proper functionality.

## **Mounting**

Carefully read and follow the instructions that came with your particular mounting kit. **Standard Millenniums must be placed on the vehicle with the cable exiting the light bar on the passenger side. Tow Millenniums must be placed on the vehicle with the cable exiting the light bar on the driver's side.**

## **Wiring**

**NOTE: The following refers only to the Millennium's wiring and does not cover the CID Box's power and switched pattern inputs. Consult the CID Controller instructions for additional installation guidelines.**

The Millennium's black cable contains a total of six wires. Two for power and ground (red and black), two for serial communication between the Millennium and CID box (blue and white), and two drain wires (bare metal.)

**Red wire (12-gauge)** – The +12 volt DC supply for the Millennium. Follow the “Millennium Power Connection Diagram” for hookup guidelines, fuse location, and fuse size.

**Black wire (12-gauge)** – The ground wire for the Millennium. Securely connect this to the vehicle's ground. Follow the “Millennium Power Connection Diagram” for hookup guidelines.

**White wire (20-gauge)** – The Millennium's transmit wire. This should be connected to the CID box's four-pin terminal labeled “Tx to Mill”.

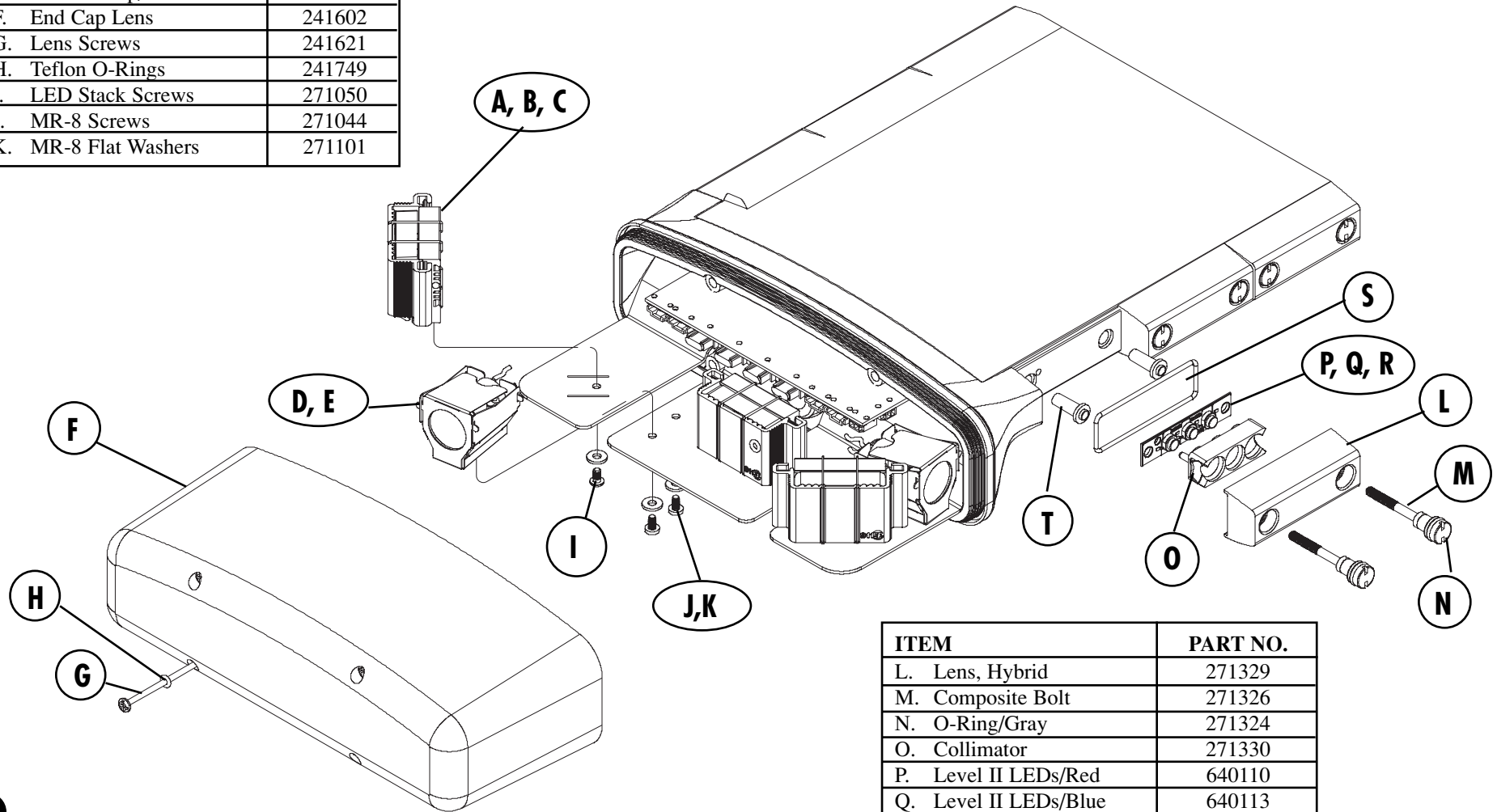
**Blue wire (20-gauge)** – The Millennium's receive wire. This should be connected to the CID box's four-pin terminal labeled “Rx from Mill”.

**Drain wires (bare metal)** – The drain wires are grounded inside the Millennium and do not need to be connected to the vehicle.

After following the “Millennium Power Connection Diagram,” refer to the CID Controller instructions for CID Box power and switch box connections.

# MILLENNIUM ASSEMBLY VIEW

ITEM	PART NO.
A. LED Stack/Red	640092
B. LED Stack/Blue	640091
C. LED Stack/Amber	640090
D. MR-8 Housing Assembly	640127
E. MR-8 Lamp/4 Pack	640031
F. End Cap Lens	241602
G. Lens Screws	241621
H. Teflon O-Rings	241749
I. LED Stack Screws	271050
J. MR-8 Screws	271044
K. MR-8 Flat Washers	271101



ITEM	PART NO.
L. Lens, Hybrid	271329
M. Composite Bolt	271326
N. O-Ring/Gray	271324
O. Collimator	271330
P. Level II LEDs/Red	640110
Q. Level II LEDs/Blue	640113
R. Level II LEDs/Amber	640111
S. Gasket/Gray	271327
T. Insulators/Red	271322

# CAUTION:

*Regarding loosening or tightening the composite-headed bolts with the enclosed Spanner bit.*

*If one or more L.E.D. segments fail to light upon initial operation of your light bar, use the enclosed Spanner bit and the following guidelines to tighten the lens segment(s):*

- Compared to metal, **your new composite-headed bolts are very soft.**
- When loosening or tightening the bolts, **do so very slowly** to reduce the chance of marring or gouging the bolt head.
- **Never over-tighten the bolts.** If an L.E.D. segment fails to light with what seems to be two tight bolts, replace the L.E.D. segment.
- **The outer two lenses on the leading and trailing edge of your light bar may be harder to remove than the others** due to the mounting foot beneath them. If so, loosen the mounting foot bolts beneath those lenses. Re-tighten them after the lens segments are secure.

*Any questions or comments regarding the composite-headed bolts may be directed to:*



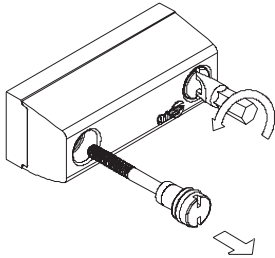
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**PHONE: 1-800-863-6911**

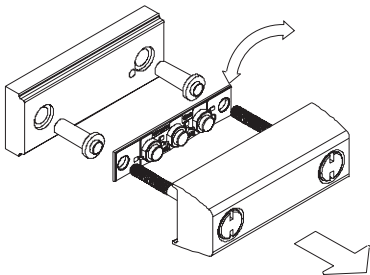
**E-MAIL: [theexperts@911ep.com](mailto:theexperts@911ep.com)**

# LEVEL II LENS REMOVAL & REPLACEMENT

## Level II Lens Removal

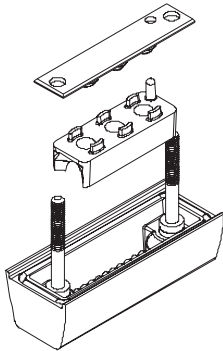


- 1) Using a P/N: 271353 spanner bit, carefully remove the composite bolts by turning counterclockwise.

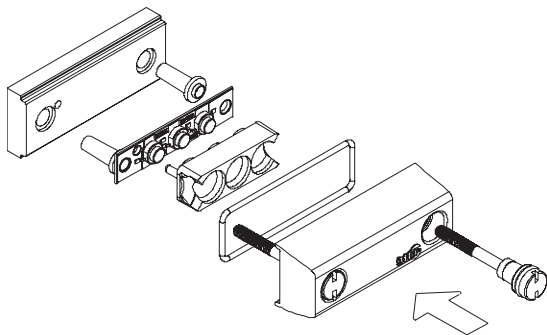


- 2) Separate assembly and replace Desired component(s).

## Level II Lens Replacement

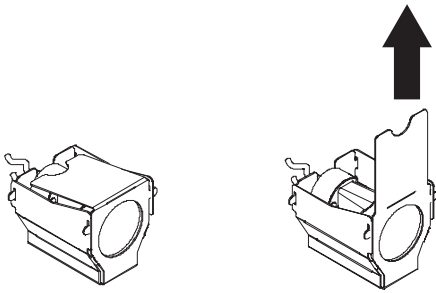


- 3) Inspect gasket, o-rings and sealing surfaces prior to re-assembly.  
*(This is the correct order for re-assembly.)*

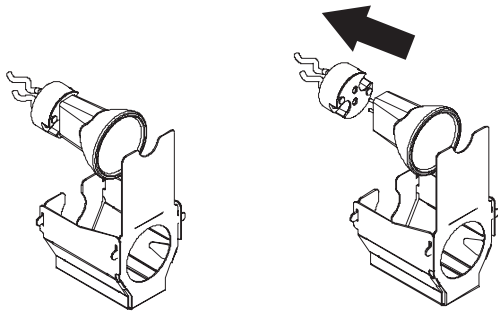


- 4) Reinstall lens assembly module, insert bolts one at a time and tighten until lens has completely sealed with chassis.  
*(Do not overtighten.)*

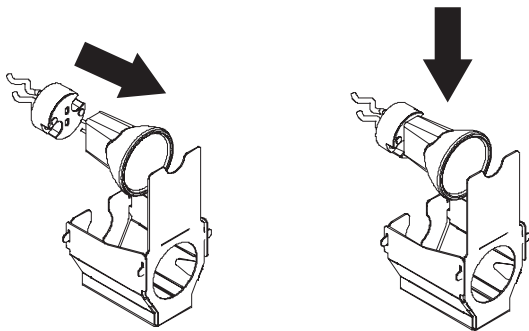
# MR-8 REMOVAL & REPLACEMENT



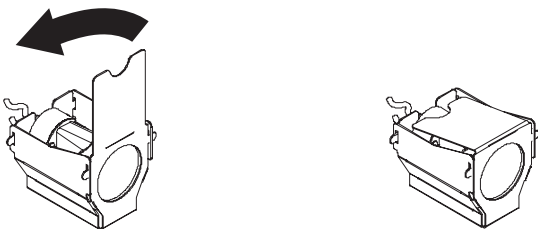
1) Lift upward on housing heat shield assembly as shown.



2) Lift bulb straight out and remove socket.



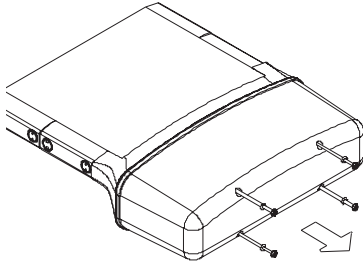
3) Insert the MR-8 bulb into the halogen socket and lower back into the housing.



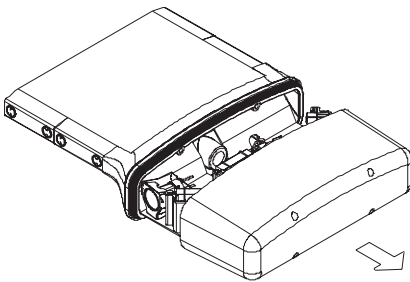
4) After reinserting bulb and socket, replace heat shield to its proper position.

# END CAP LENS REMOVAL & REPLACEMENT

## End Cap Lens Removal

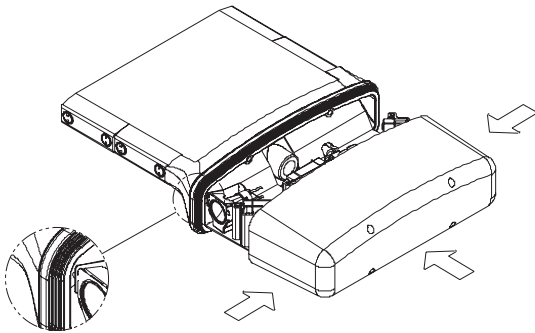


- 1) Using a Phillips head screwdriver, remove the four (4) lens screws.

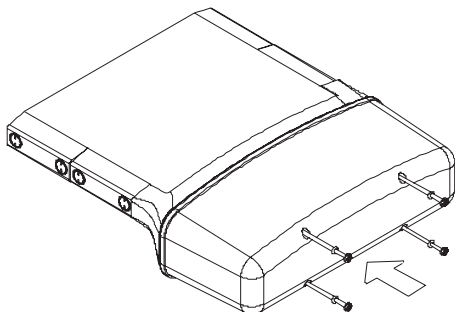


- 2) Carefully slide lens off the transition gasket.

## End Cap Lens Replacement



- 3) Apply gentle pressure to the sides of the lens and slide over the ribs of the gasket and into the protective lip.



- 4) Reinstall end cap screws into the lens, taking care not to overtighten. Inspect the three seal lines around lens ensuring a perfect seal.

## **LIMITED WARRANTY – EFFECTIVE NOVEMBER 11, 2002**

Congratulations on your purchase of a quality 911EP product.

911EP, Inc. (the “Warrantor”) will replace parts, in case of defects in materials or workmanship, for five years subject to the following conditions and limitations:

- This warranty only covers failures due to defects in materials or workmanship, and does not cover normal wear or cosmetic damage. This warranty does not cover damage that occurs in shipment, failures caused by products not supplied by the Warrantor, or failures that result from abuse, accidents, maladjustment of consumer controls, neglect, improper or inadequate maintenance, improper use of the product, corruption of the cigarette plug, amputation of the cigarette plug, unauthorized modification of the product, commercial use (such as rental use) of the product or damage that is attributable to acts of God or other events beyond the control of the Warrantor.
- The Warrantor will, for five years from the date product is shipped from the 911EP manufacturing facility, cover the cost of replacement for defective parts under this Warranty. This warranty does not cover chipping, scratching, fading or discoloration of lenses or paint. ***Halogen lamps are not covered under this warranty.*** The warranty does not cover labor charges for removal and re-installation of the product. This warranty will be voided by any unauthorized alteration made to your 911EP product, or by the installation or attachment of any accessory not designed by 911EP specifically for the product.
- The Warrantor shall not be liable for incidental or consequential damages resulting from the use of this product, or arising out of any breach of this warranty. If a problem with this product develops within the warranty period, contact a Customer Service Representative at (800) 863-6911.

**Exclusion of Warranties:** This limited warranty is expressly in lieu of all other agreements and warranties, general or special, express or implied. The warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, and all other warranties, express or implied, are EXCLUDED from this transaction and shall not apply to the goods sold. The Warrantor reserves the right, in its sole and absolute discretion, to refund all or a portion of the purchase price rather than repair or replace any defective materials for workmanship.

The Warrantor shall not be liable for incidental or consequential damages. Some states and countries do not allow the exclusion or limitation of implied warranties, incidental or consequential damages, so the above limitations and exclusions may not apply to you.

This limited warranty does not cover any representation or warranty made by any person beyond the provisions of this warranty. No representative or person is authorized to assume liability on behalf of the Warrantor in connection with the sale or use of any product.





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