



A Safe Fleet Brand

FIRE RESEARCH CORPORATION
26 Southern Blvd., Nesconset, NY 11767
TEL 631.724.8888 FAX 631.360.9727
TOLL FREE 1.800.645.0074
www.fireresearch.com

FIREFLY

MODELS LED100, LED110 COMPARTMENT/PANEL/UNDER BODY MOUNT

SAFETY SUMMARY

FRC lighting products are engineered and manufactured with safety in mind. It is critical that FRC lights are installed, maintained, and operated correctly. Read and understand all instructions before installing, performing maintenance, or operating.

All components, equipment, and installation procedures shall conform to NFPA 1901, *Standard for Automotive Fire Apparatus* and NFPA 70 *National Electrical Code*.

The following safety precautions shall be observed.

General Safety Precautions

Ensure power is off prior to connecting or disconnecting wires and plugs or performing maintenance.

Do not stare directly at LEDs when power is on.

Installation Safety Precautions

Ensure power is off prior to connecting wires or cable to the power source.

Connect the LED light to a 12 to 30 volt DC power source.

Ensure an appropriate sized circuit protection device is installed (circuit breaker or fuse).

Use a minimum of 18 AWG to connect DC lights.

FRC lights are intended for mounting to a noncombustible surface only.

Install approved rubber or plastic grommets or bushings where wires or cable pass through a surface.

Ensure all wire connectors or terminals provide a positive mechanical and electrical connection.

Electrical connections not enclosed in a box must be covered with an insulation equivalent to that on the conductors.

INSTALLATION INSTRUCTIONS

The FireFly LED fixture must be mounted with the rear surface against metal to ensure proper cooling.

Install LED100/110 Compartment/Panel/Under Body Mount Light

Before mounting check the identification label on the light for specific voltage and current requirements. Check that the length of the wiring is correct. Ensure the LED100 is mounted so that the directional lens is focusing the light in the desired direction.

Note: Before drilling holes place the light in position to check for fit. Ensure that the light clears all obstructions.

1. Measure and mark the mounting hole locations and through hole (if needed) for the wiring. Refer to drawings on page 2.
2. Drill the two (2) mounting holes for #10 screws and a wire feedthrough hole (if needed).

Note: Ensure that the light is mounted with the rear surface against metal.

3. Connect the wiring and secure the light with two (2) screws. Ensure that the wiring is aligned in the selected feed channel or the through hole.

Wiring 12/24 VDC

Power Required Each Fixture: 0.8 Amps at 12 VDC.

Connect the RED wire to POWER.

Connect the BLACK wire to GROUND.



LED100



LED110

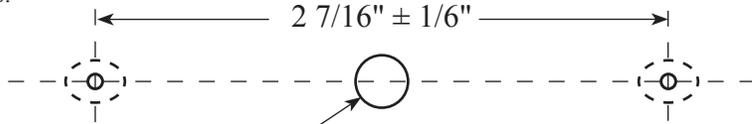
LED100 has a beam directing lens.

Install LED100/110 Light

LED100-Rev150512

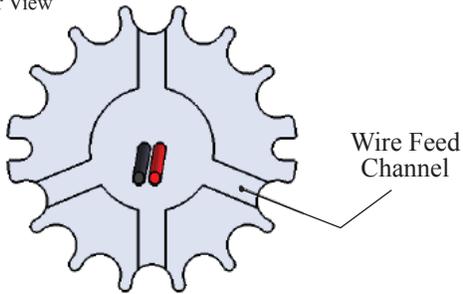
Ensure the LED100 is mounted so that the directional lens is focusing the light in the desired direction.

Drill two (2) holes, clearance or tapped, for #10 mounting screws.

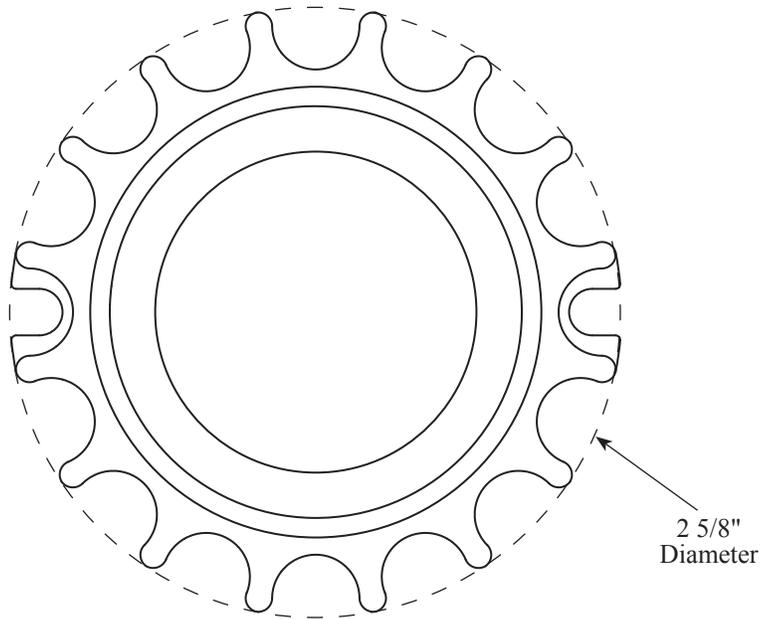


Drill a wire hole is 1/4" to 1/2" diameter if required.

Rear View

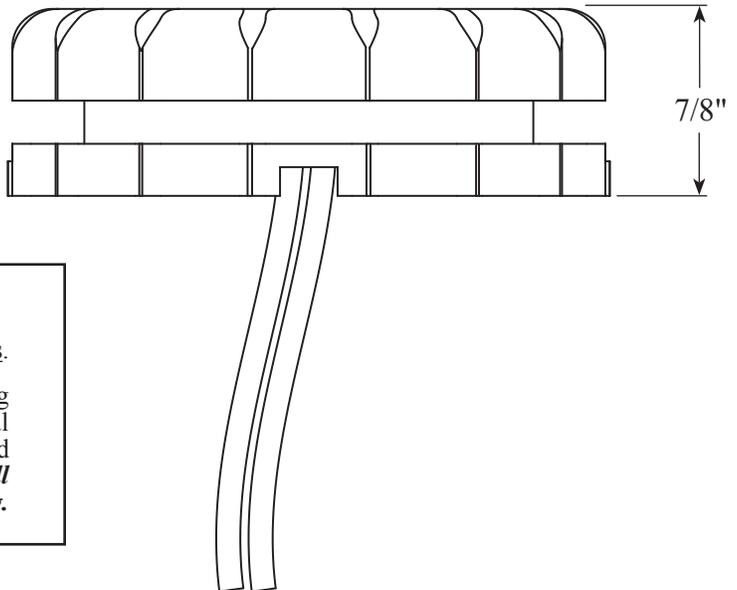


Wire Feed Channel



2 5/8" Diameter

Note: There are four lateral wire feed channels cut into the rear of the LED fixture. The wires can be run through one and set flush to the mounting surface. No wire hole would be drilled under the light.



MAINTENANCE

Use a clean soft cloth, mild soap, and water to clean the lens.

NOTE: FRC led lampheads use Lexan lenses and cleaning with abrasive materials, solvents, or most chemical cleaners can cause lens surface degradation and reduced performance of the light. *Some chemicals will cause the lens to become brittle and prone to cracking.*