

INSTALLATION GUIDE

**PRISONER
TRANSPORT
LIGHTING**

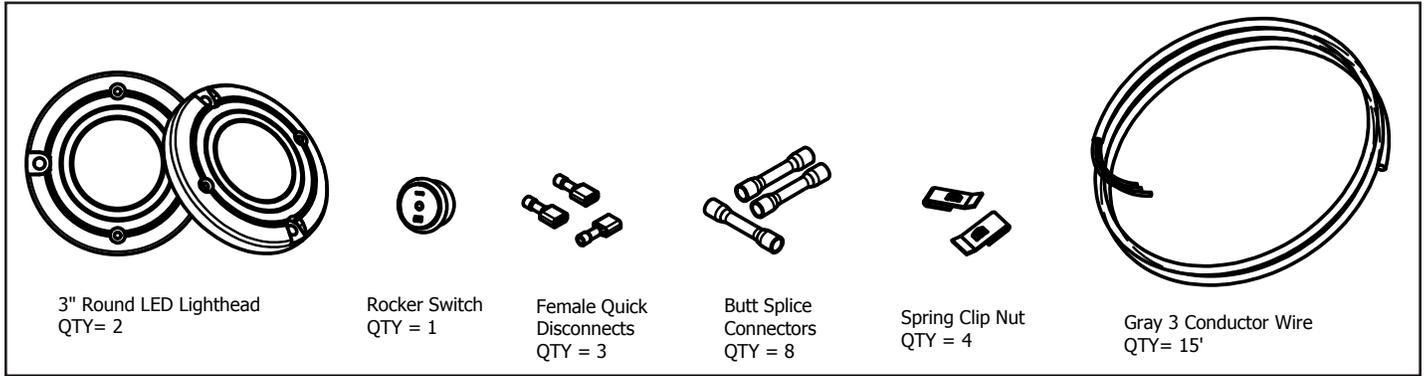
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PRISONER TRANSPORT LIGHTING

THESE COMPONENTS ARE REQUIRED TO INSTALL
THE PRO-GARD PRISONER TRANSPORT LIGHTING



I. Verify all parts listed above were included in kit.

II. The following tools will be required to complete the installation:

- A. Utility knife
- B. Phillips Screw Driver
- C. Wire Stripper, Cutter, and Crimp tool (18-22 ga)
- D. Drill with 3/16" Drill bit and 13/16" Drill or 7/8" Hole Saw

III. Read all instructions carefully before starting the installation process.

NOTE: Locate all Wiring, Fuel Lines, Brake Lines, and/or Cooling Lines before drilling holes or installing fasteners.

IV. Three Position Rocker Switch Installation

A. Locate a suitable place to install the included 3 Position On-Off-On Rocker switch. The switch should be easily accessed from the Driver's seating position and be visible to the driver.

- 1. Alternately the lighting can be controlled using lighting controllers or other style switches. The lights themselves must be powered with a constant 12V source. The ground signal is what will be switched to operate either the Red or White light functions.
(See part VI below for more information)

B. Drill a 13/16" hole, if not available a 7/8" hole saw may be used alternately.

C. Verify that there is enough clearance behind the switch when installed for the wiring and connectors.

V. 3" LED Light Installation

A. Determine the optimum mounting location for the LED lights to be installed and provide the most useful amount of light.

NOTE: The lights should be mounted so that they do not create a hazard to the driver of the vehicle during operation.

1. Check that the lights do not come directly into view of the driver during operation of the vehicle. If testing of the lights is to be performed prior to wire installation, a 12V power source must be used. +12V should be applied to the Red wire and a (-) ground signal should be applied to either the black or black/white wires. (Solid black grounded = Red LED's illuminated, Black/white grounded = White LED's illuminated)

SEE FIG. 4 ON LAST PAGE - "LED LIGHTHEAD MOUNTING AND CUTOUT DIAGRAM"

- B. Once the proper mounting location has been determined, a hole must be cut into the headliner (or other surface) for running the wires and mounting the retaining clips the screws will anchor to. Use the template on the top of page 5 of these instructions as a guide for hole size and drill locations. The page must be printed to scale so that the rectangular area in the center of the cut out measures 1-5/8" wide by 1" tall and the spacing between the holes for the screws should be about 2-9/16".
- C. If using the template, cut it from the instructions and then trace out the pattern on the surface the lights are to be mounted to or use it as a pattern to make the rectangular cut and drill the 3/16" holes.
- D. Once the rectangular hole has been made and the 3/16" holes have been drilled, the screw retaining clips need to be installed. The clips may need to be spread open depending on the thickness of the head liner material. The longer portion of the clip should be mounted behind the surface the light is to be mounted to and the shorter portion will be on the same side of the surface that the light will be mounted to.
- E. Test fit the light in the desired location.
- F. Repeat steps B through D above for the second light.

VI. Wiring the Rocker switch and the LED lights

- A. Locate a +12V ignition or constant power source for the LED lights. The circuit should be fused at 1A, it is recommended not to use a circuit breaker.
- B. Using the included gray 3-wire harness, route the harness from the switch to the nearest LED's mounting location. Leaving 6" or so of slack, cut the gray cable. Then route the remaining gray wire from the first LED's location to the second LED's location. Remove any excess cable that is not needed. *The wiring diagram is shown on the bottom of page 5 of these instructions.*
- C. Connecting the switch to ground
 1. The rocker switch has 3 terminals on the back, the center (#2) is the "input".
 2. Connect the center or #2 terminal to a ground (-) source. Crimp one of the included 18-22 ga female quick disconnect terminals to this ground wire and connect to the #2 terminal on the back of the switch.

3. Connect the #1 terminal (below the single bar on the rocker) to the white wire on the gray harness going to the First LED light. Crimp one of the included 18-22 ga female quick disconnect terminals to the white wire and connect it to the #1 terminal on the back of the switch.
 4. Connect the #3 terminal (below the double bar on the rocker) to the black wire on the gray harness going to the First LED light. Crimp one of the included 18-22 ga female quick disconnect terminals to the black wire and connect it to the #3 terminal on the back of the switch.
 5. Connect the red wire in the gray harness at the switch to the fused (1A) +12V power source.
- D. Connect the wires to the first LED light coming from the switch as well as the wires going to the Second LED light.

See the wiring diagram on page 5. The supplied 18-22ga butt splice connectors may be used to join the wire harness to the LED light heads.

- E. Connect the Second LED Light to the gray harness at the second LED lights mounting location

See the wiring diagram on page 5. The supplied 18-22ga butt splice connectors may be used to join the wire harness to the LED lightheads.

VII. Finishing Installation

Fasten the LED's into the headliner or other mounting location. Test that the lights and rocker switch operate correctly and do not affect the driver of the vehicle during operation. Be sure all wires are secure and not loose or free to be snagged or cut.

VIII. Installation is now complete.

FIG. 4 - LED LIGHTHEAD MOUNTING AND CUTOUT DIAGRAM

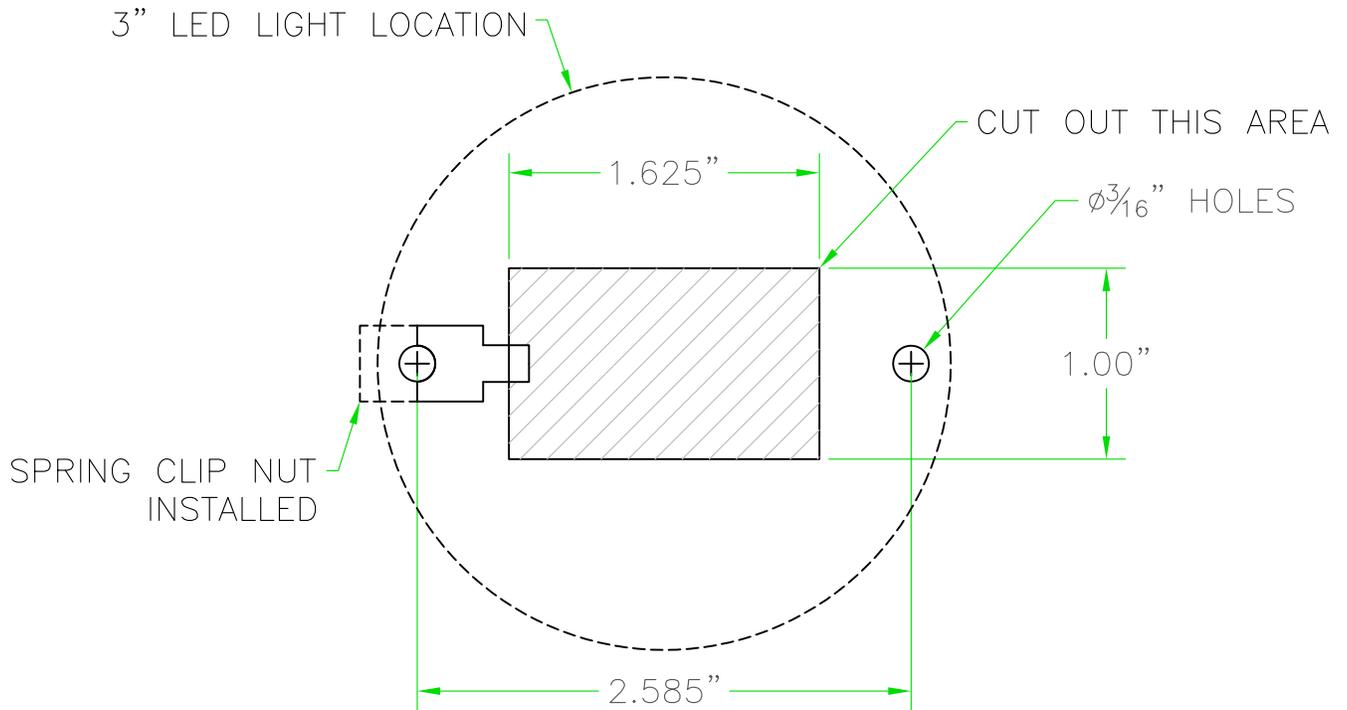


FIG. 5 - PRISONER TRANSPORT LIGHTING SYSTEM WIRING DIAGRAM

