

R•O•M DuroStrip™ LED Lighting Installation Instructions



Introduction

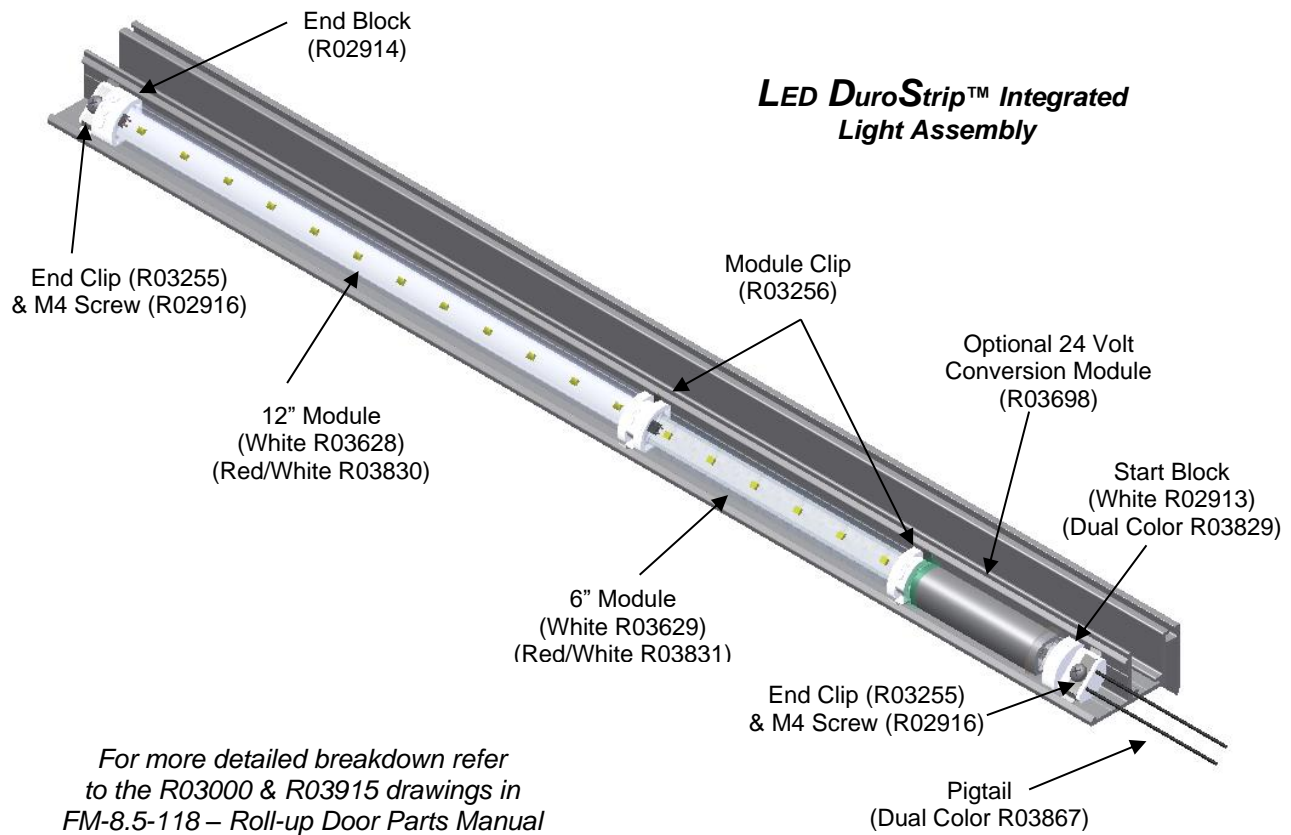
Congratulations on your purchase of the R•O•M LED DuroStrip™ light! The integrated track light or lightbar can be installed with the R•O•M Roll-up Door or as a stand-alone application.

Please read and follow these instructions carefully!

If you have any questions, call 800-827-3692.

Things to know:

- Nominal voltage: 12 VDC or 24 VDC when used with 24-volt conversion module.
- Amperage: White 0.33 Amps per foot @ 12.8 VDC; Dual colors 0.22 Amps per foot @ 12.8 VDC
- Red wire to power and black wire to ground. See wiring diagram for wiring with DASS
- One starting block will power up to 96" of lights. When using a 24-volt conversion module, only 60" of lights can be powered.
- Dual color systems can only be used on 12VDC.



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You will need the following tools to install your DuroStrip™ LED light, please note these are not included with your system:

- Drill
- Drill bits – 11/64
- Countersink bit
- Fasteners for light bar
(#10 Self-tapping hex-head machine or sheet metal screws are recommended)
- Screwdriver – Phillips depending on hardware selected
- Wire cutters

To install the DuroStrip™ integrated lightbar complete the following steps:

1. The wiring will be at the top on most integrated lightbar orders. Determine where you will be running the wiring; ensuring there are no sharp edges that could cut through the wire insulation.
2. Match drill mounting holes using a #11/64 drill bit.
3. Install the integrated lightbar extrusion using #10 self-tapping hex-head machine or sheet metal screws.
4. Using the pigtail wiring provided, connect the red wire to power and the black wire to ground using the connector of your choice. See page 4 for wiring diagram when lights are used with the door ajar switch.

To install DuroStrip™ stand-alone lights use the specified *double-sided tape, extrusion screw holes, R03052 mounting block, or R03907 Thru mounting block*:

1. Determine if the wires will be routed from the top or bottom. Ensure there are no sharp edges that could cut through the wire insulation.
2. Stand-alone lightbars are positioned & attached with the provided double-sided tape, specified R03052 mounting block, and/or new R03907 Thru mounting block.
 - a. If screw mounting is desired, drill mounting holes on the outer ends of the stand-alone extrusion and attach.

Repositioning:

Once the DuroStrip™ is installed the LED light modules may be adjusted for maximum luminosity.

1. To adjust loosen the M4 screw on the start block and end block.
2. Slide the blocks and light modules to the desired location and re-tighten the M4 screws.

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To replace or add LED modules:

1. Attach the end block (one without wiring) to the aluminum extrusion using the securing clip and M4 screw. See Figure 1 for layout arrangement of parts and Figure 1a for installed.

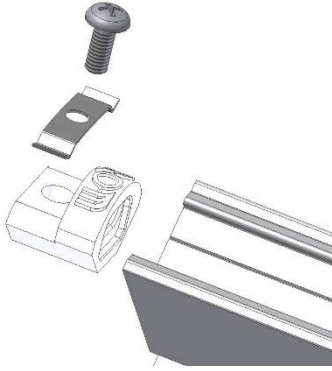


Figure 1

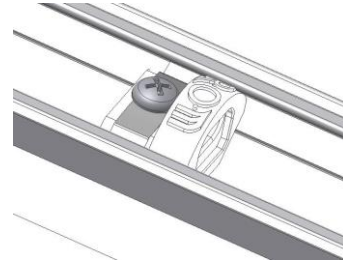


Figure 1a

2. Determine which end to slide the module retainer spring clip into of the 6" or 12" module. This should not be on the end going to the end block (See Figure 2). Insert the end without the clip into the end block while snapping the clip in the aluminum extrusion (See Figure 2a). The module should fit tightly against the end module.
3. Continue adding the modules and clips until they fill the extrusion within a minimum of 2" from the extrusion end or 96" of lights modules.
4. Attach the starting block with a securing clip and M4 screw to complete the assembly.
5. Using the pigtail wiring provided, connect the red wire to power and the black wire to ground using the connector of your choice. See page 4 for wiring diagram when lights are used with the door ajar switch.

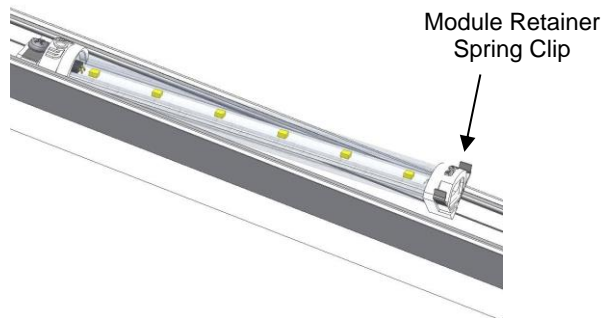


Figure 2

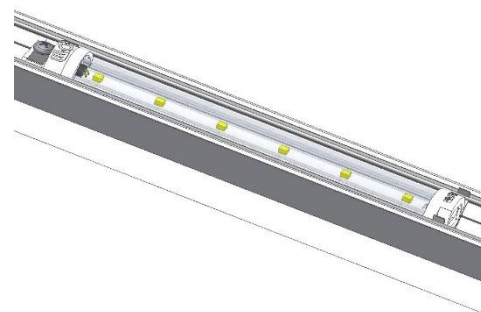


Figure 2a - Installed

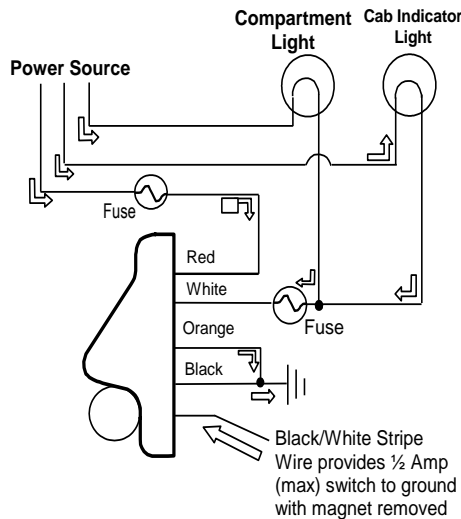
This completes your DuroStrip™ lighting installation. If you have any questions, please contact Safe Fleet at 1-800-827-3692 or visit our website at www.romcorp.com.

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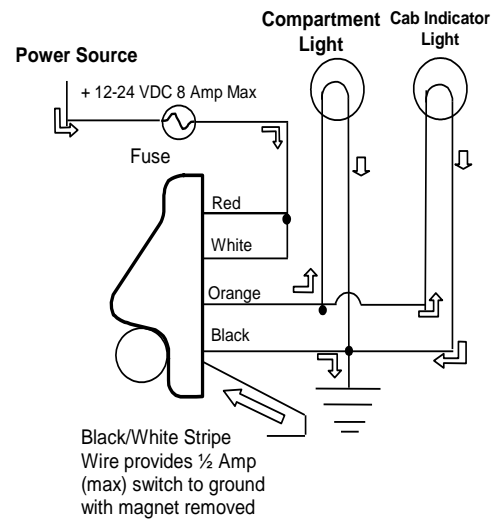


Door Ajar Wiring Diagram and Wiring Test Procedure for White DuroStrip™:

Lights to Ground Thru Solid State Switch Configuration
Indicator Lights to +12-24 VDC 8 Amps Max
(Supply voltage of less than 11V can cause switch to malfunction)



(Preferred Wiring)
Lights to Power Thru Solid State Switch Configuration
Indicator Lights to Ground
(Supply voltage of less than 9V can cause switch to malfunction)



This device has a solid-state output switch, and polarity is important. Damage to the device may result from extended operation with improper connection of the wires.

To determine if proper installation has been achieved, check the operation of the door ajar switch by applying a magnet (R•O•M Part # R03348 or any strong magnet) to the door ajar switch where the lift bar rests when the door is closed. When the door is open the compartment light should be illuminated. Therefore, when the magnet makes contact with the door ajar switch the light should turn off. If the compartment light remains on when the magnet makes contact with the door ajar switch, reverse the white and orange wire connections, and repeat the above procedure. If proper operation is still not achieved, re-check the wiring connections for proper wiring.

Optional Output

The new switch design has a single output that can be split to provide power to both compartment lights and a door ajar indicator light in the cab of the vehicle. If you have multiple indicator lights in the cab that show which door is open, the new design will work with no additional components or modifications. This can be performed using the black wire with white strip wired directly to the light; unless the current draw is more than a 1/2 amp then it will be necessary to use this wire to provide a controlled ground for an optional relay or electronic control provided by user.

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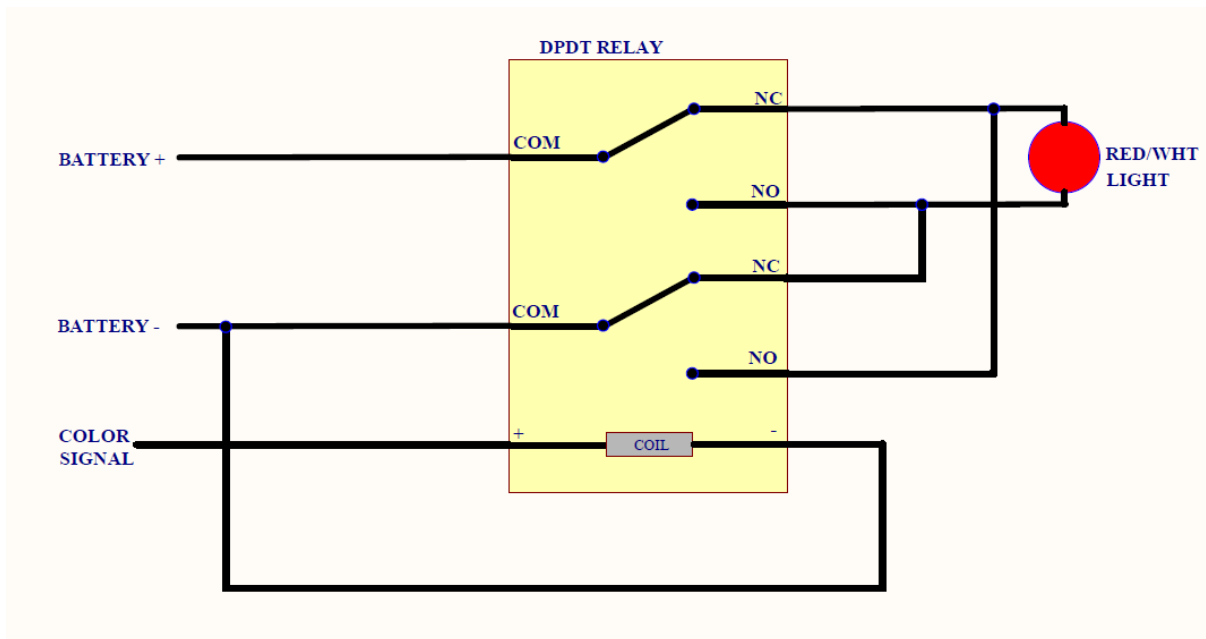


Red / White DuroStrip™ and Blue / White DuroStrip™ Wiring Option:

The Red / White and Blue / White DuroStrip™ LEDs change color based on the polarity of the current supplied.

Normal polarity will produce white light, and reverse polarity will produce colored light.

You can use a DPDT relay to control this. This is the suggested wiring layout in this case:



Note: Color signal switch and relay are not provided by R•O•M.

If you have any questions or problems, please contact your Customer Development Representative at 800-827-3692.

These drawings & the information contained herein are the confidential & proprietary intellectual property of Safe Fleet and should not be disclosed to any third party without the express prior written consent Safe Fleet.