

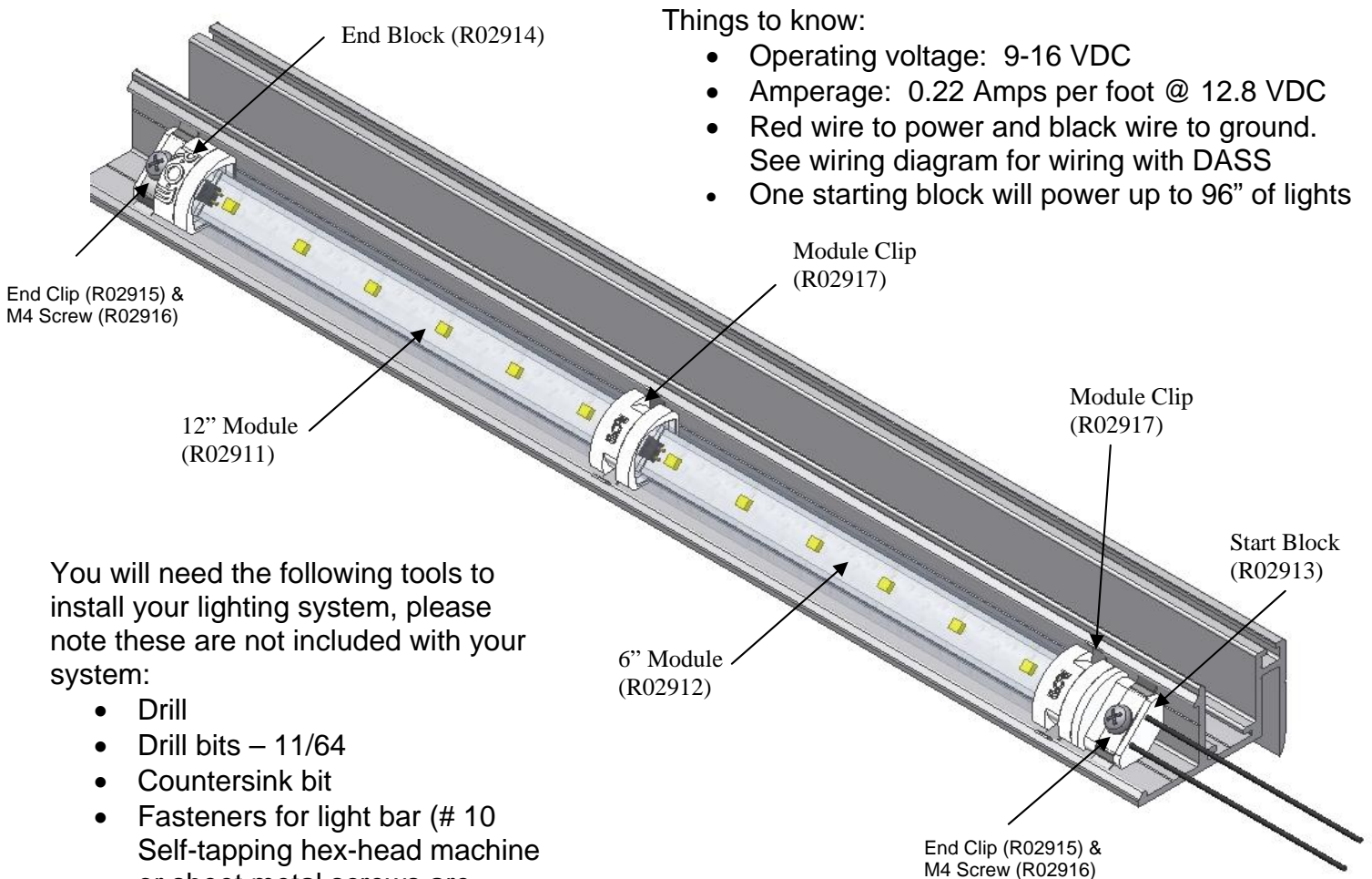


LED V3 Lighting INSTALLATION INSTRUCTIONS

FM-7.5-255
REV A
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Congratulations on your purchase of the R•O•M LED V3 Lighting system! The integrated track light or light bar can be installed with the R•O•M Shutter or as a stand-alone application.

Please read and follow these instructions carefully!



Things to know:

- Operating voltage: 9-16 VDC
- Amperage: 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

You will need the following tools to install your lighting system, 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

V3 Integrated Light Assembly

To install the integrated light bar complete the following steps:

1. The wiring will be at the top on most integrated light bar 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 light bar 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 stand-alone lighting:

1. Determine the path the wires will be routed; top or bottom. Ensuring there are no sharp edges that could cut through the wire insulation.
2. Stand-alone light bars are attached with the provided double-sided tape.
 - a. If screws are desired, drill mounting holes on the outer ends of the stand-alone extrusion and attach.

Repositioning:

Once the light bar 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.

To replace LED modules 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.

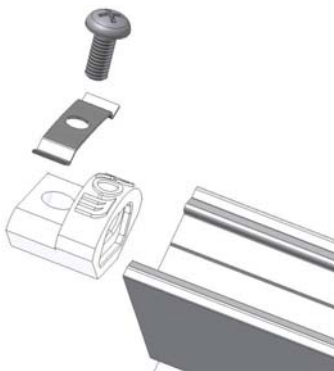


Figure 1

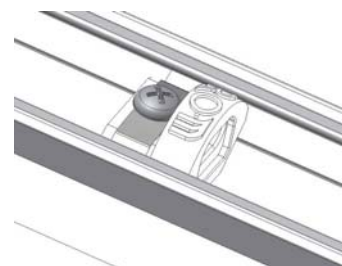


Figure 1a

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

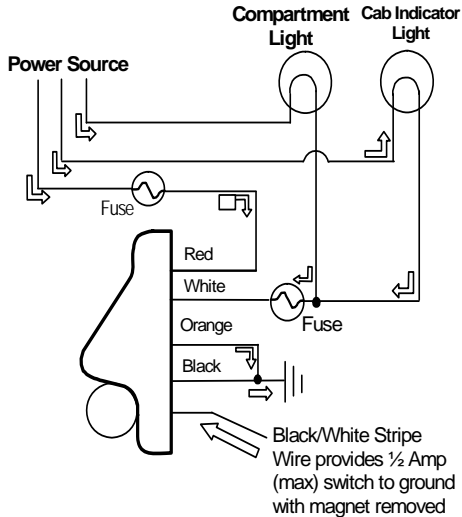


Figure 2a
Installed

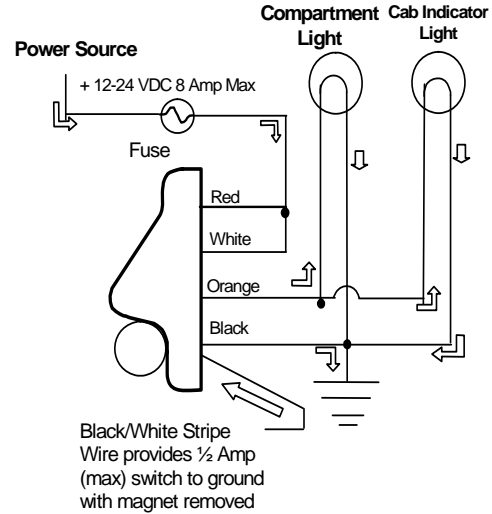
This completes your V3 lighting installation. If you have any questions, please contact R-O-M Corporation at 1-800-827-3692.

Door Ajar Wiring Diagram and Wiring Test Procedure:

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 # R00011 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.