



Installation Guide/Owner's Manual

Strait Secure Behavioral Wall Slot

Technical Support: 313-259-6400, Press 5

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INSTALLATION GUIDE/OWNER'S MANUAL

1.0 OWNER/USER RESPONSIBILITY

It is the responsibility of the contractor, installer, buyer, owner and user to install, maintain, and operate this controller in accordance with all applicable laws, regulations and local electrical safety authority requirements.

This product is only to be installed by a qualified electrician.

IMPORTANT!

Thoroughly read the entire instructions guide and warnings before beginning installation. The instructions provided are intended to assist in the installation and service of the corresponding product. Failure to follow the instructions may result in product malfunction, damage, injury or death. Contact your Kirlin service representative for replacement parts and procedures.

2.0 SAFETY & IMPORTANT INFORMATION



Risk of fire or electric shock. Ensure all power is disconnected during installation process. Refer to wiring diagrams to prevent damages and malfunctions.



This controller may only be connected and installed by a qualified electrician. This controller requires knowledge of controllers and electrical systems. If not qualified, do not attempt installation or maintenance. All applicable regulations, legislation, and building codes must be observed.



Connecting fixtures with power **ON** will “hot plug” the LEDs and cause damage.



To prevent wiring damage or abrasion, do not expose wiring to edges metal or other sharp objects.

3.0 STANDARDS & COMPLIANCE

UL Listed	UL XX
Restriction of hazardous substances	RoHS Compliant

4.0 ELECTRICAL REQUIREMENTS

Nominal input voltage range AC	120 – 277V
Input frequency range	50 – 60Hz
Maximum wattage	16.2 W/ft (VWL-02SWM) 5.83 W/ft (VWL-02CCM)

5.0 BEFORE YOU BEGIN

Before You Begin

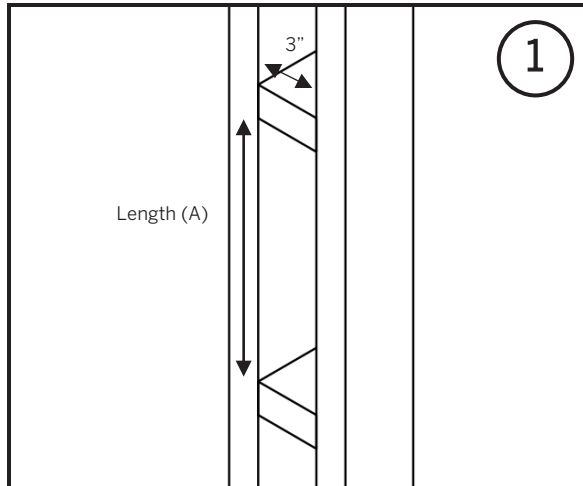
- Shut OFF power at fuse box or circuit breaker before installation, inspection or removal.
- To reduce the risk of fire or electric shock, NEVER interconnect or short output terminations.

Environmental Conditions

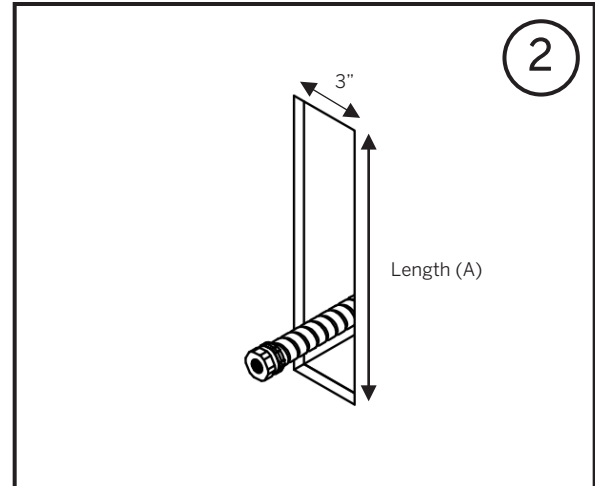
Luminaire operating ambient temperature (Ta) range	-30°C to +60°C
Controller	Damp or dry listed

6.0 FRAMING

Vertical Orientation



For vertical orientation, prepare framing in wall with 3" width and length (A) from the table below for corresponding fixture length.

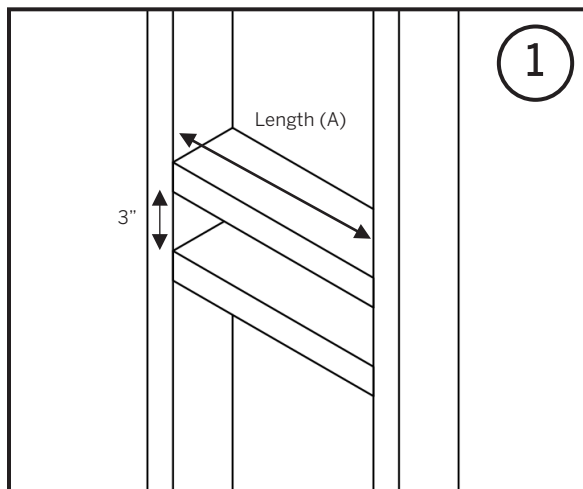


Install drywall with cutout of 3" width and length (A) in location of framing. Route conduit through cutout.

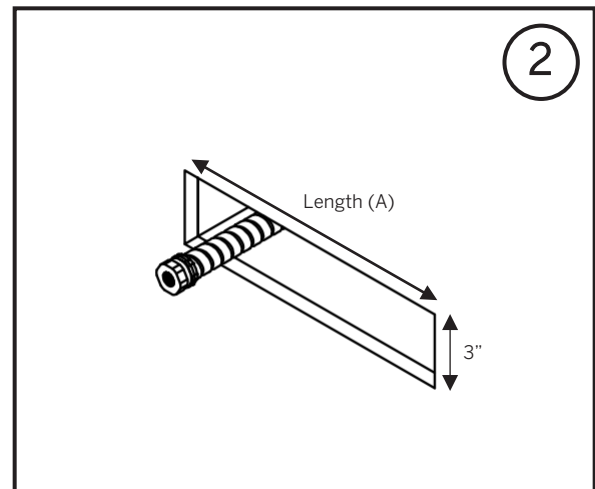
Fixture Length	Length (A)
12 in	11.75"
18 in	17.25"
24 in	23.25"
36 in	35.25"
48 in	47.25"

For other lengths, consult factory

Horizontal Orientation



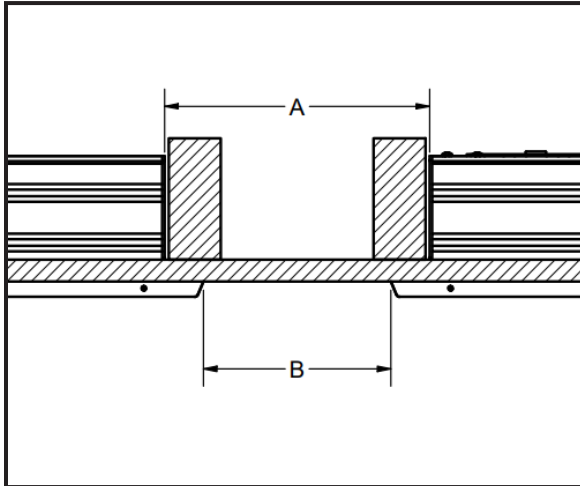
For horizontal orientation, prepare framing in wall with 3" height and length (A) from the table above for corresponding fixture length.



Install drywall with cutout of 3" height and length (A) in location of framing. Route conduit through cutout.

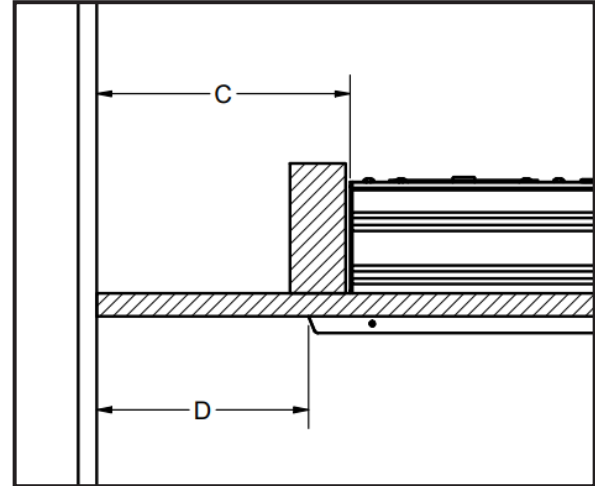
7.0 APPLICATION CLEARANCES

Fixture Frame to Fixture Frame



Minimum spacing between fixtures is dependent on tool usage. For closer fit and final tightening, use supplied L-key at noted minimum dimensions. For quicker installation, use supplied flex drive and final tighten with L-key.

Fixture Frame to Wall

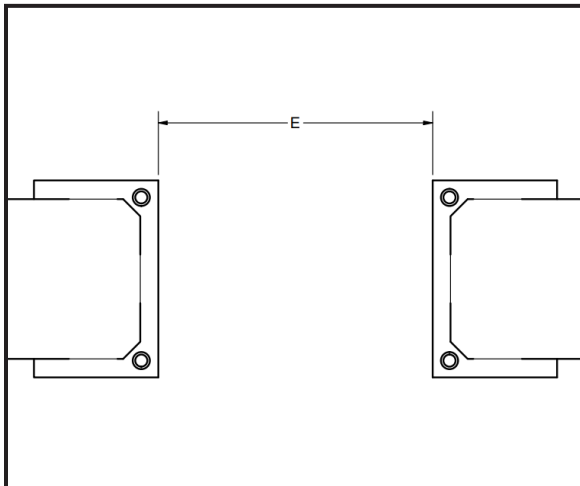


Minimum spacing between frame edges and walls for installation placement. Dimensions are dependent on tool usage.

Minimum Clearance - Tool Usage

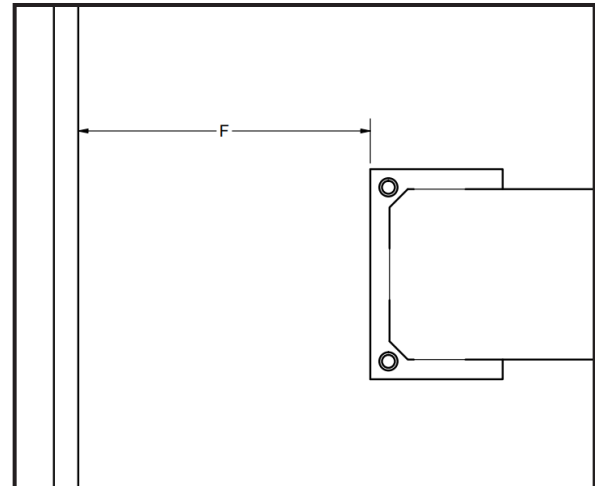
	Flex Drive	L-Key
A	8.75"	4"
B	6.5"	1.75"
C	7.125"	2.875"
D	6"	1.75"

Housing Bracket to Housing Bracket



Minimum spacing between housing brackets for installation placement. Fixture frames extend 1/4" past bracket. Dimensions are dependent on tool usage.

Housing Bracket to Wall



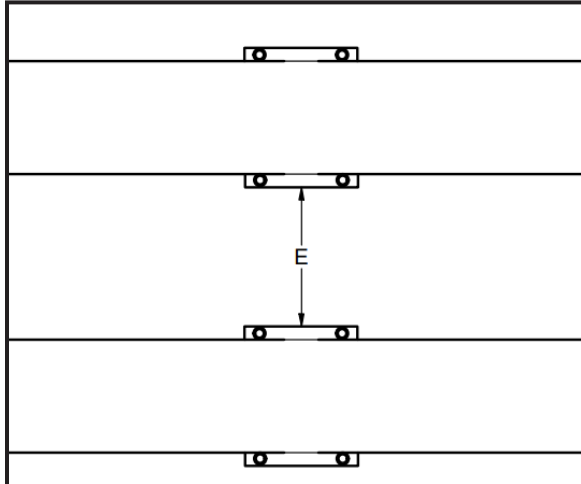
Minimum spacing between housing bracket and wall for installation placement. Fixture frames extend 1/4" past bracket. Dimensions are dependent on tool usage.

Minimum Clearance - Tool Usage

	Flex Drive	L-Key
E	7"	2.25"
F	6.25"	2"

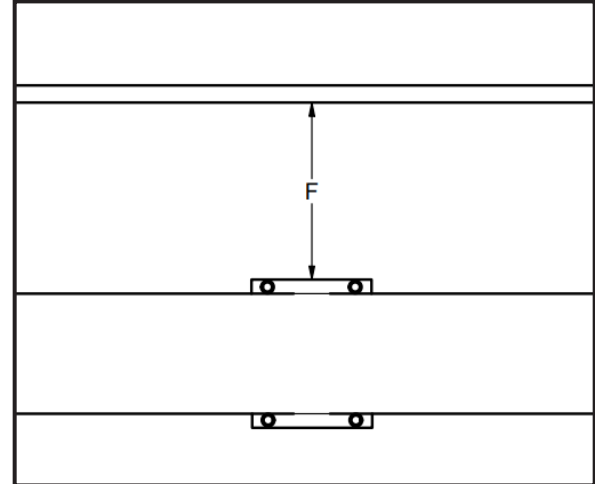
7.0 APPLICATION CLEARANCES (Continued)

Housing Edge to Housing Edge



Minimum spacing between housing edges for installation placement. Fixture frames extend ¼" past bracket. Dimensions are dependent on tool usage.

Housing Edge to Wall

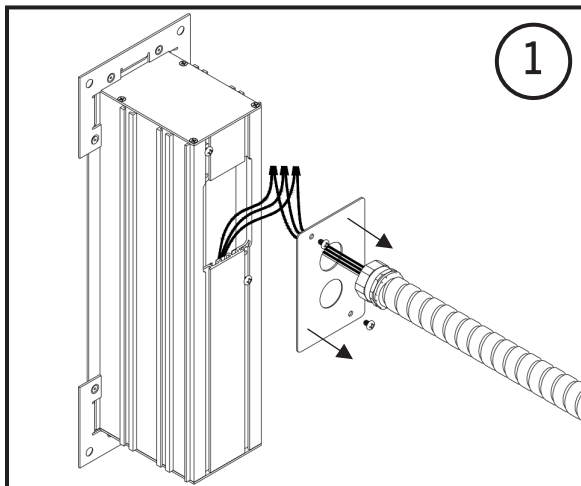


Minimum spacing between housing edge to wall. Fixture frames extend ¼" past bracket. Dimensions are dependent on tool usage.

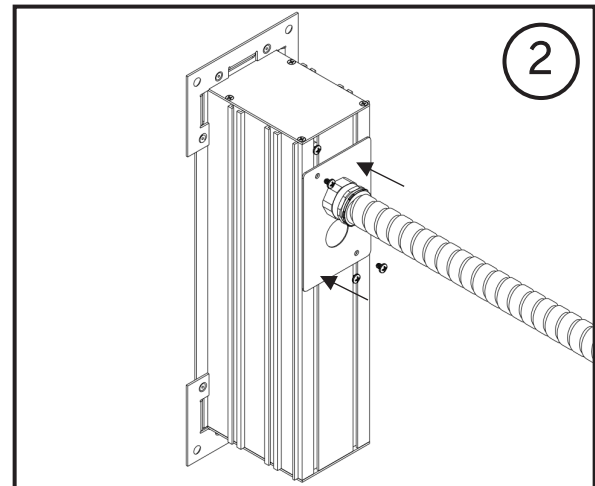
Minimum Clearance - Tool Usage

	Flex Drive	L-Key
E	7"	2.25"
F	6.25"	2"

8.0 WIRING - INTEGRAL DRIVER

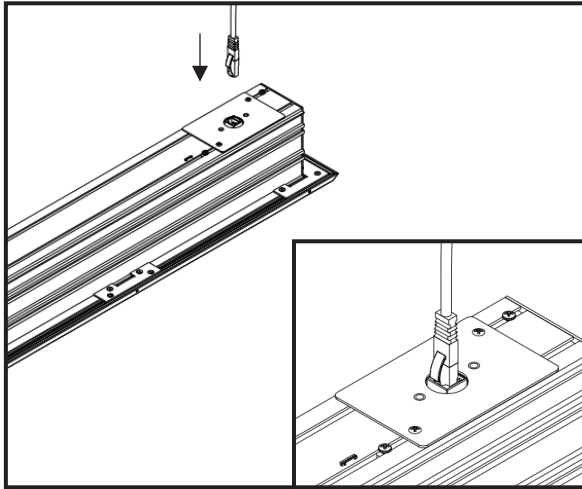


- A. Remove #6-32 Phillips-head screws x 2 to remove wiring cover plate on the backside of the fixture.
- B. Connect power, ground, and any control wires. *Use separate knockouts and conduit for data and inline voltage wires to prevent interference.*



Secure conduit to wiring cover plate and remount to fixture.

8.1 WIRING – DMX DATA – EXTERNAL DRIVER

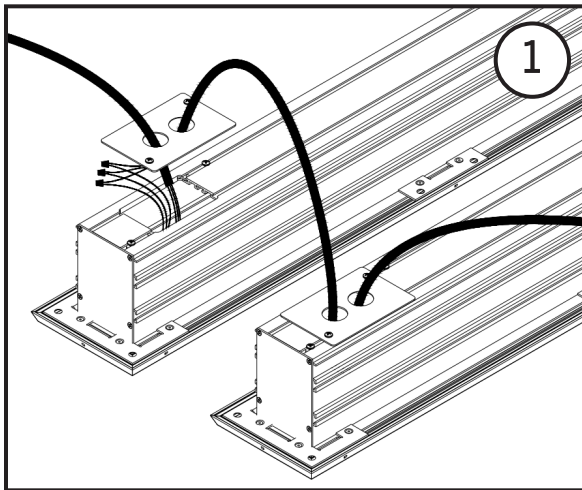


For driver-less fixtures, connect remote driver to fixture using supplied shielded CAT cable.

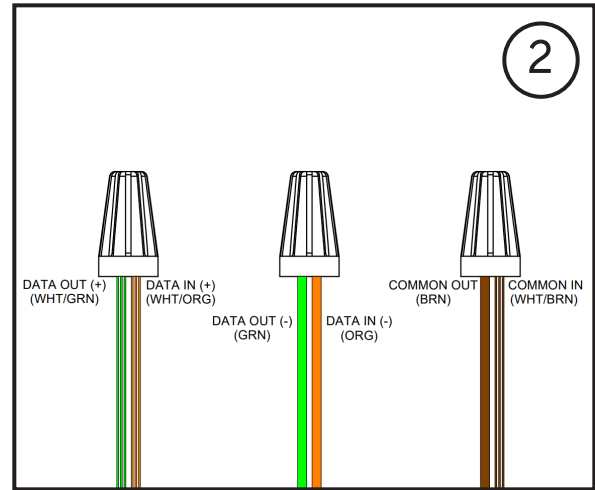
REM-DMXPS to VWL-02CCM-RD Configurations

Driver Module	Maximum Capacity	Fixture Qty.
REM-DMXPS-4FT	4 Foot Run	2 ft + 2 ft 4 ft
REM-DMXPS-6FT	6 Foot Run	2 ft + 2 ft + 2 ft 2 ft + 4 ft
REM-DMXPS-8FT	8 Foot Run	2 ft + 2 ft + 2 ft + 2 ft 2 ft + 2 ft + 4 ft

8.2 WIRING – DMX DATA – INTERNAL DRIVER

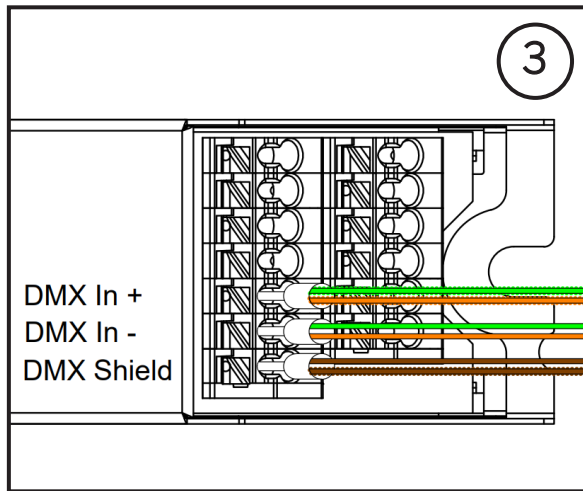


- When connecting multiple internal DMX driver fixtures together, ensure proper wiring of data cables using wire nuts (supplied by others). Use separate knockouts for through-branch wiring data and inline voltage wires.
- Ensure all wire connections are stored inside the fixtures and secured to 1/2" trade size knockouts using 1/2" trade size clamp connectors (supplied by others).



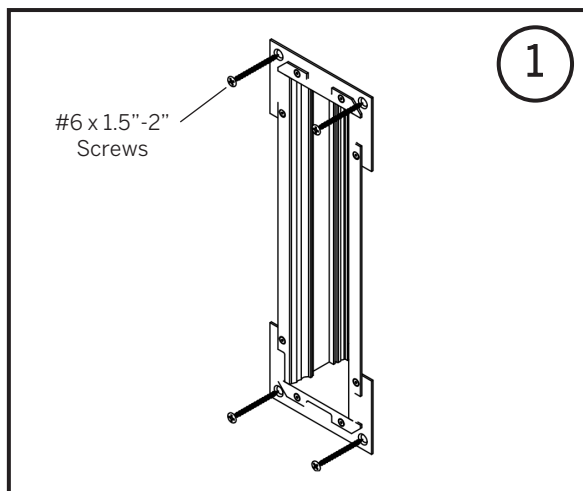
Ensure proper wiring of the positive, negative, and common data wires. Connect terminating 120-ohm resistor (supplied by others) at the end of the DMX chain.

8.2 WIRING – DMX DATA – INTERNAL DRIVER (Continued)

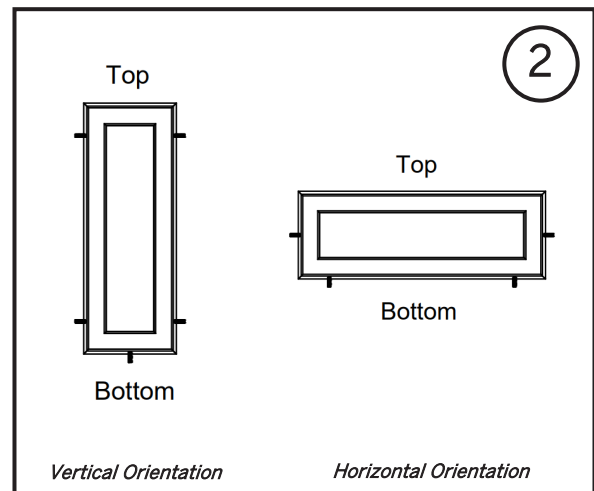


DMX wire locations on driver.

9.0 INSTALLATION – FIXTURE



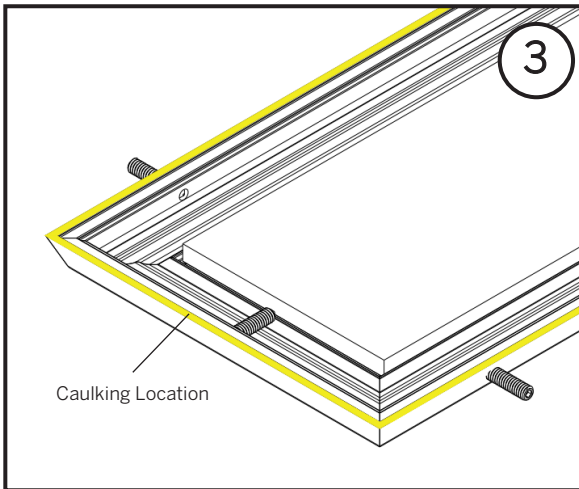
Insert the fixture into cutout in wall and fasten with #6 x 1.5" – 2" drywall screws (supplied by others). Ensure fasteners are flush to brackets. **DO NOT OVER TIGHTEN TO PREVENT BRACKETS FROM BENDING.**



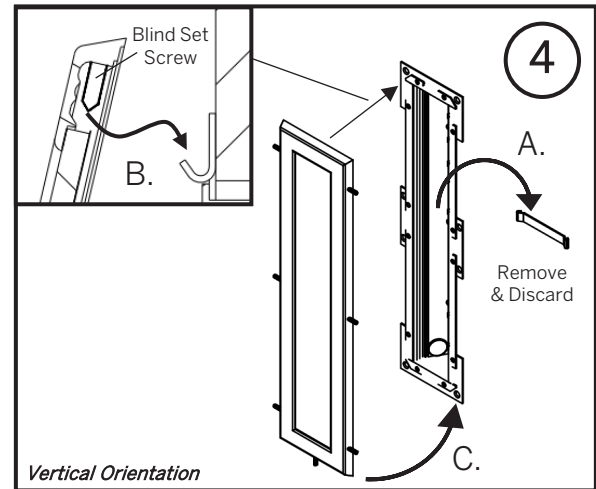
Before installing frames, ensure the side with **NO** exterior threads is orientated upwards.

Drywall Hardware	
Fixture Length	Qty.
12 in	4
18 in	8
24 in	8
36 in	12
48 in	16

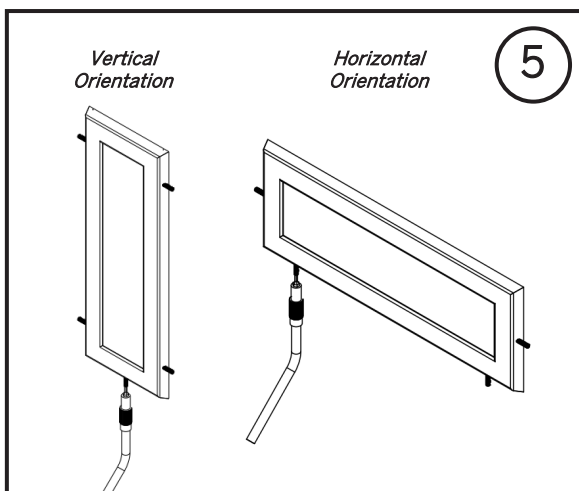
9.0 INSTALLATION – FIXTURE (Continued)



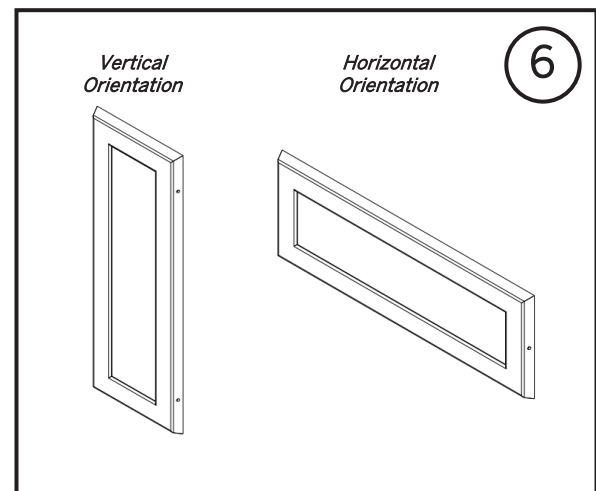
If using anti-pick caulking (supplied by others) apply to highlighted surface on trim.



- A. After fixture installation remove center support bracket, when present, and discard.
- B. Lower frame at angle onto housing. Ensure the blind set screw is set into the housing flange.
- C. Pivot frame down to sit flush on housing and wall.

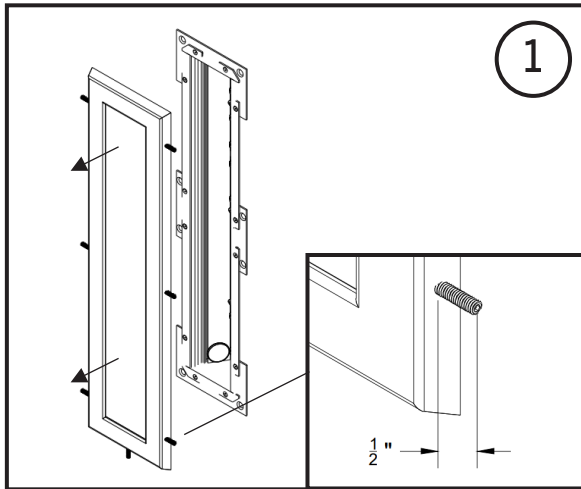


Snug tighten bottom #8-32 set screws to hold frame in position using supplied flex bit. Alternate tightening each set screw, before fully fastening, using supplied L-key for even installation. Set screws should not extend from frame when installed correctly.

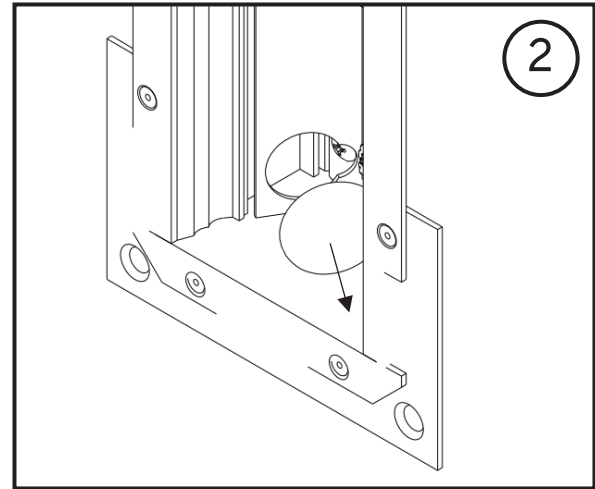


Ensure fixture is sitting flush against wall and all set screws are fully tightened into frame. Wipe any excess caulking, if applicable.

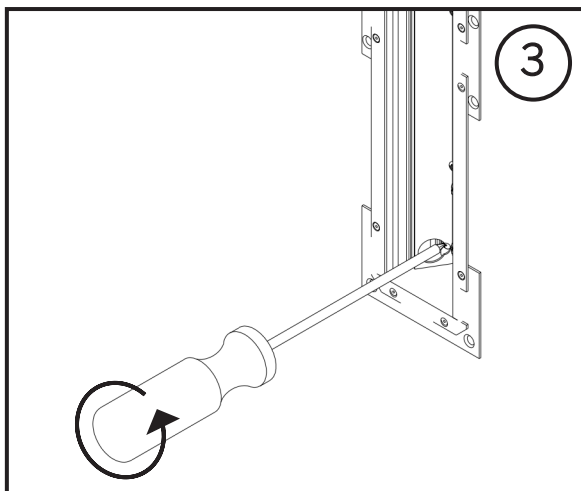
10.0 SERVICE – LIGHT ENGINE REMOVAL



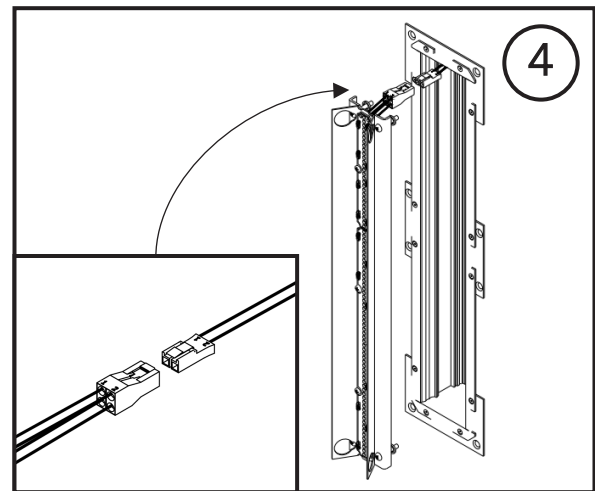
Ensure all power is disconnected to all fixtures before servicing. Loosen all #8-32 set screws to remove frame and lens from fixture. Set screws do not need to be completely removed from threads. If any caulking was used, break seal and remove, **DO NOT BEND FRAME**.



Remove hole plugs x 4 to reveal mounting screws (set aside for reinstallation).

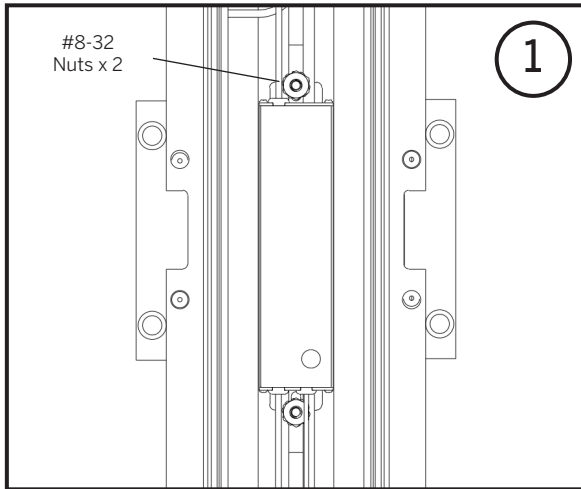


Loosen each #8-32 mounting screw x 4 to remove light engine from fixture. Mounting screws are captive, do not fully remove. Support the light engine while loosening to prevent from falling or straining wire leads. Avoid contact with LED boards to prevent damage.

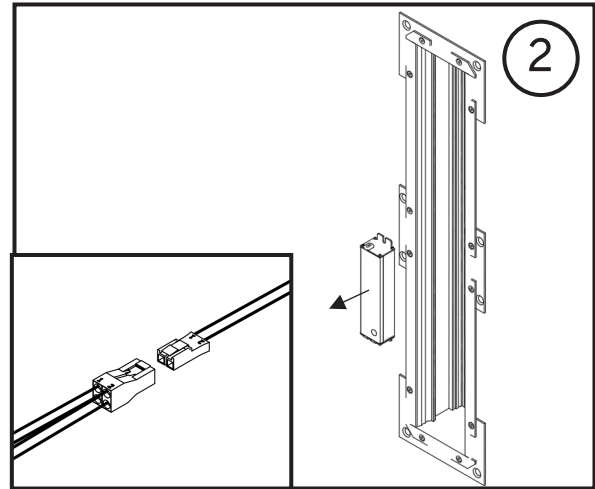


Remove the light engine and disconnect wire plug to free light engine (multiple plugs for certain fixture types). Repeat steps in reverse for reinstallation.

11.0 SERVICE – DRIVER REMOVAL



For driver service, continue from previous service steps. Remove #8-32 nuts x 2 from both ends of driver to remove from housing. Support driver while loosening nuts to prevent driver from falling or straining wire leads.



Remove driver from fixture and keep #8-32 nuts for reinstallation. Make note and disconnect any connections where necessary. Repeat steps in reverse order for reinstallation.

12.0 USER NOTES