

# J&D Manufacturing

## GENERAL WIRING DIAGRAM FOR 4' T8 LED LIGHTING W/NL

2 Tube - 4' Fixture



3 Tube - 4' Fixture



## WARRANTY

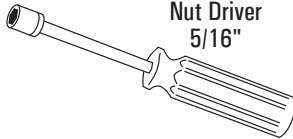
J&D Manufacturing warrants these lights are free from defects in materials and workmanship under normal use for the period of 5 years from date of purchase. Our warranty does not cover normal or regular wear and tear. J&D Manufacturing can repair or replace at our option, any product or part of the product that is found to be defective. Our warranty applies to materials only, and does not include return freight, delivery, loss or damage to personal property, cost of removal or installation, any incidental or consequential damages or labor. This warranty does not apply to products which are misused, abused, altered, improperly installed or subject to negligence. All warranties must be approved through our warranty department. The original purchaser must present a copy of the invoice for the defective product.

## RECOMMENDED TOOLS FOR WIRING (NOT PROVIDED)

Safety Glasses



Nut Driver  
5/16"



## INSTALLATION

Please read over all instructions carefully before you begin. If you have any questions please call your local dealer, or contact J&D Manufacturing at 1-800-998-2398.



**DISCONNECT POWER**  
BEFORE INSTALLING OR SERVICING.

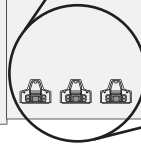
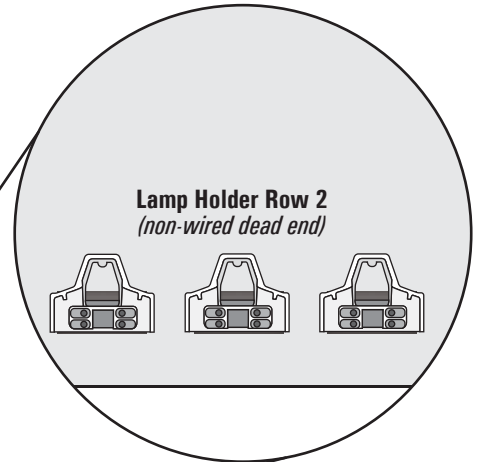
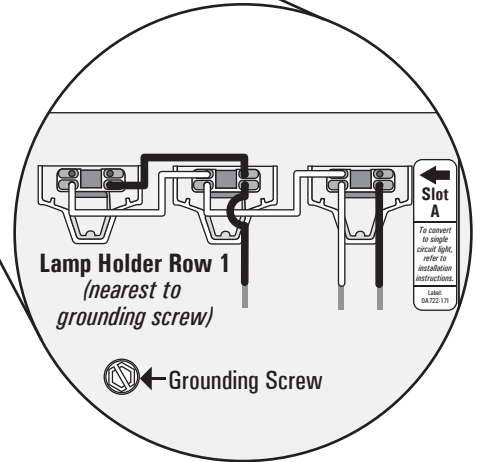
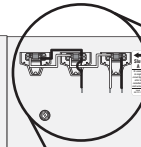


ALL ELECTRICAL WORK SHOULD BE COMPLETED BY  
QUALIFIED PERSONNEL AND MEET NATIONAL (NEC),  
REGIONAL AND LOCAL ELECTRIC CODES.

**To maintain the UL "suitable for wet location status"  
use included hanging hardware for mounting luminaire.**

**DO NOT drill any holes in any part of the luminaire, doing so  
will make the luminaire unsafe for wet locations and void warranty.**

Using the diagram below, identify Lamp Holder Row 1 and Row 2.



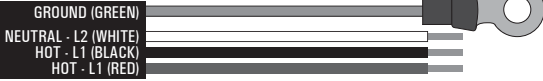
**1**

Fixture is wired with 2-circuits enabling the powering down to only one tube per fixture, a "safety/ night light" feature.

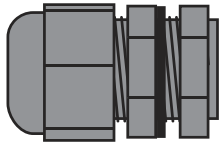
To rewire fixture to 1-circuit proceed to **Step 6**.

**Additional (not provided) parts required to maintain UL "suitable for wet locations" status**

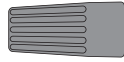
**Power In**



Power cord that meets or exceeds load requirements and is rated for wet location



Properly sized water tight cord grip (listed liquid-tight conduit hub)



3- Properly sized wire nuts (size is based on connecting wires combined diameter)

**2**

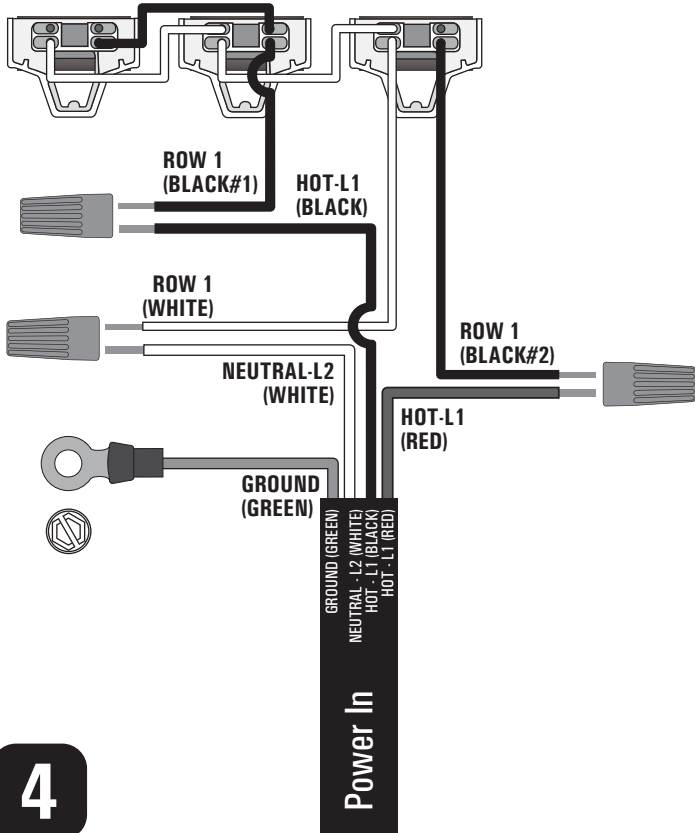
Beginning the wiring process.

**3**

- Power cord must run through the access ports in the fixture body and be secured with a properly sized water tight cord grip. **Properly sized water tight cord grip must be used to maintain the suitable for wet location status.**

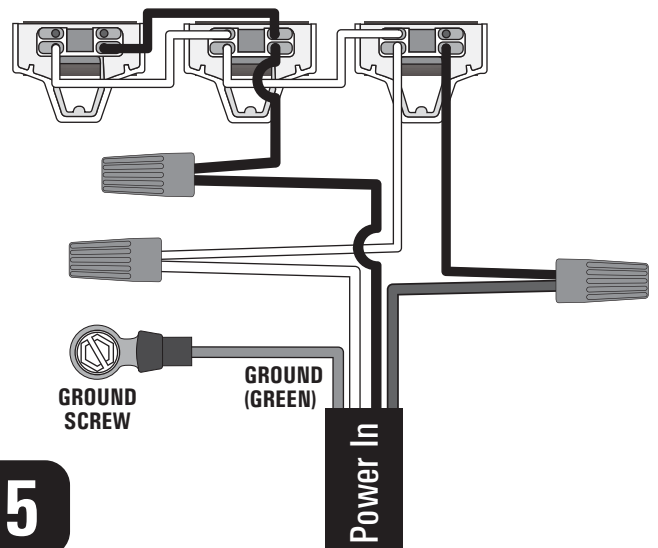
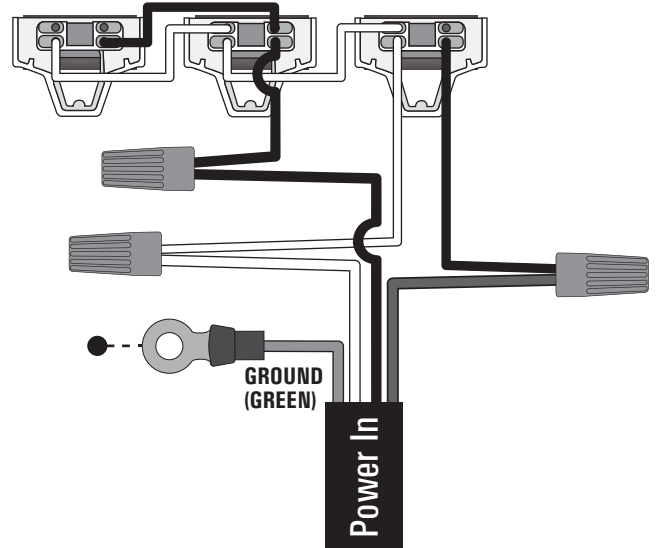
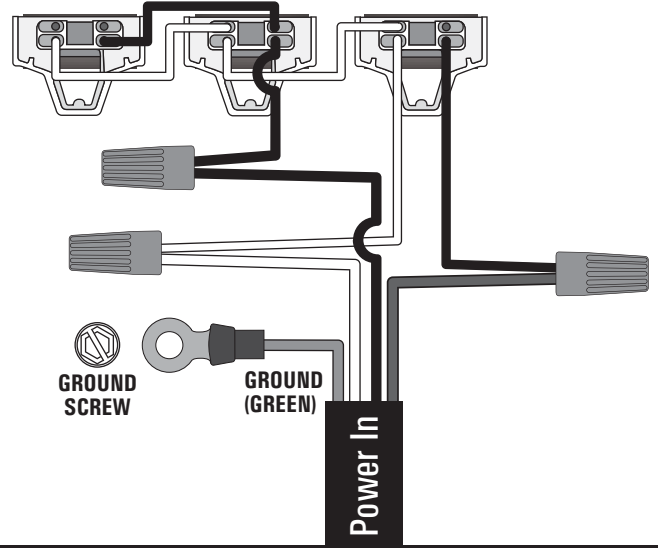
Using properly sized wire nut for each connection secure as shown below:

- Fixture's ROW 1 white wire and the POWER IN neutral - L2 white wire
- Fixture's ROW 1 black wire #1 and the POWER IN hot - L1 black wire
- Fixtures ROW 1 black wire #2 (this is for Night Light) and the POWER IN hot - L1 red wire



**4**

Using a 5/16" Nut Driver remove the ground screw from the fixture gear tray. Insert ground screw through ring terminal on POWER IN green ground and re-anchor to gear tray.



**5**

Proceed to Step 11.

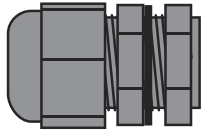
**Additional (not provided) parts required to maintain UL "suitable for wet locations" status**

**Power In**

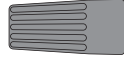
GROUND (GREEN)  
NEUTRAL - L2 (WHITE)  
HOT - L1 (BLACK)



Power cord that meets or exceeds load requirements and is rated for wet location



Properly sized water tight cord grip (listed liquid-tight conduit hub)



2- Properly sized wire nuts (size is based on connecting wires combined diameter)

**6**

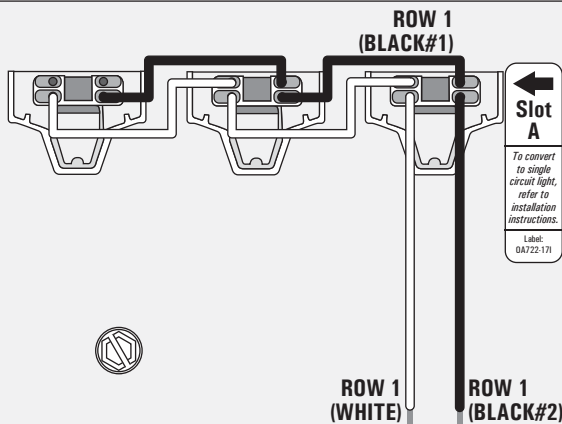
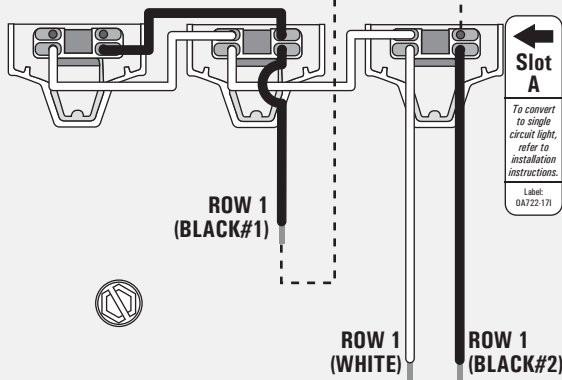
Beginning the wiring process.

- Power cord must run through the access ports in the fixture body and be secured with a properly sized water tight cord grip. Properly sized water tight cord grip must be used to maintain the suitable for wet location status.

**7**

To convert light to single circuit, insert the end of ROW 1 Black wire #1 as far as it will go into Slot A.

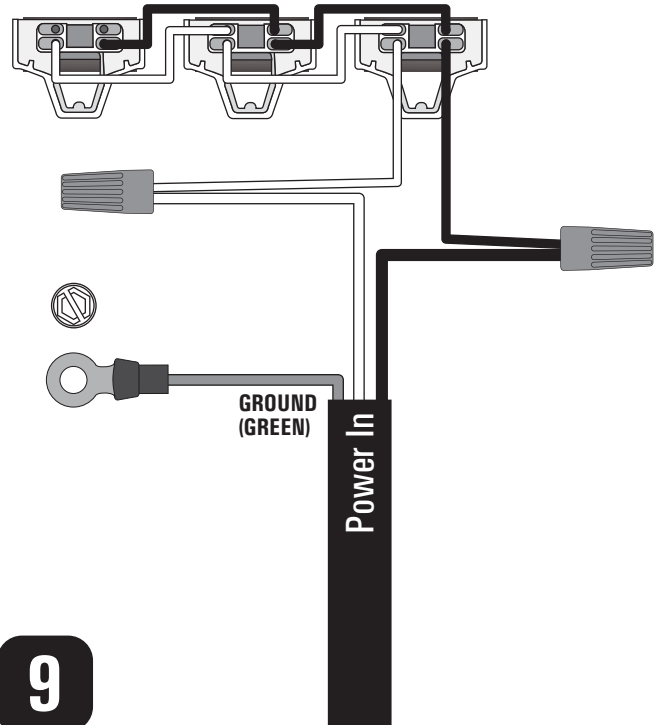
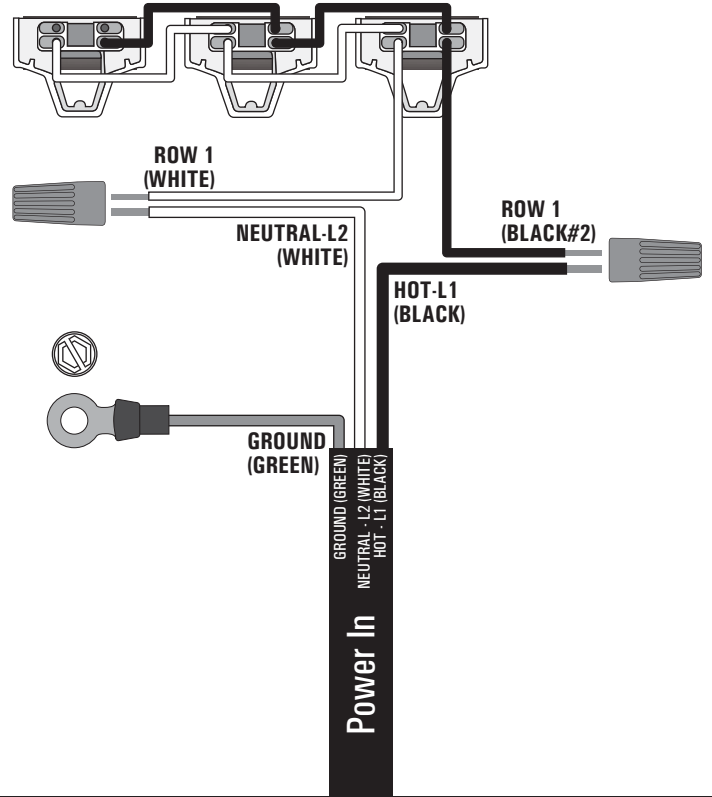
NOTE: Slot A is indicated by a label as shown below.



**8**

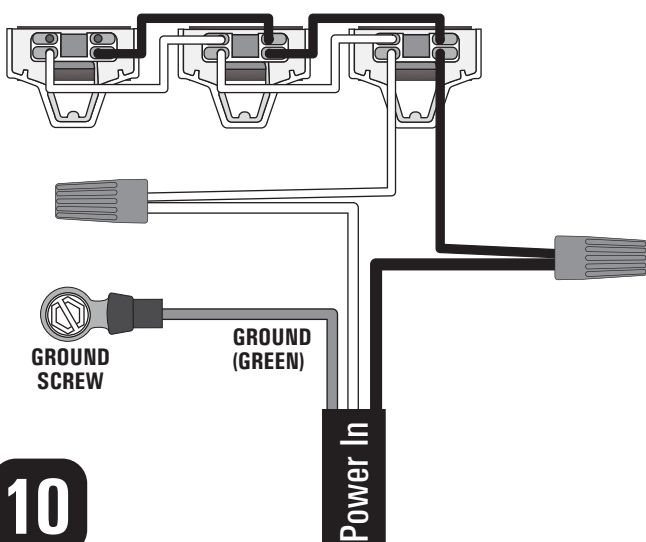
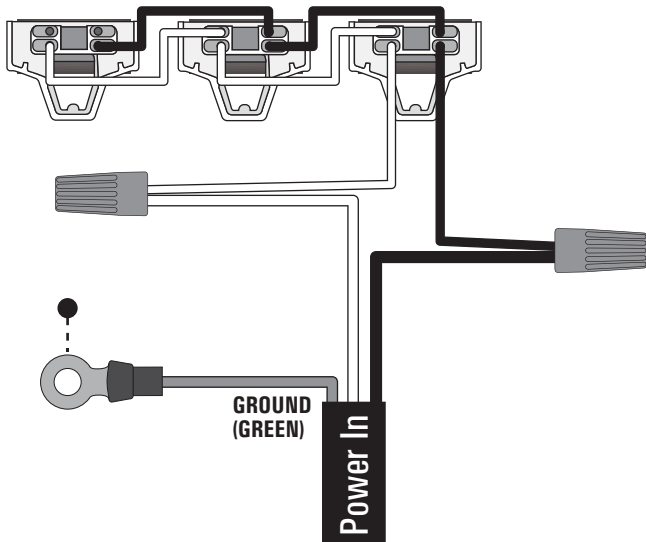
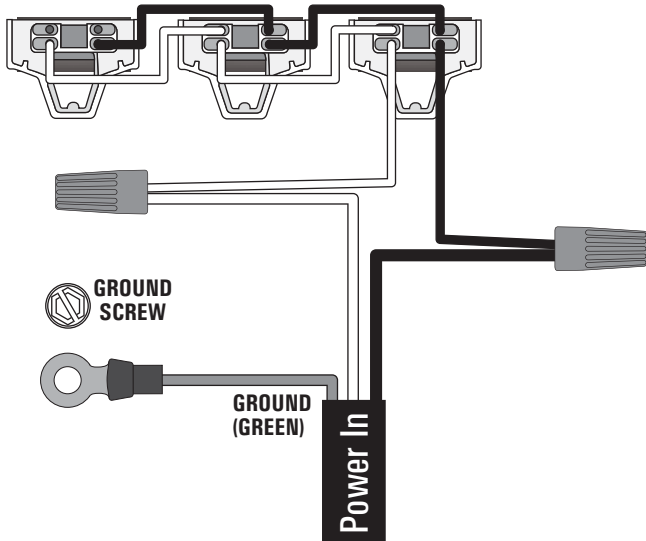
Using properly sized wire nut for each connection secure as shown below:

- Fixture's ROW 1 white wire and the POWER IN neutral - L2 white wire
- Fixtures ROW 1 black wire #2 and the POWER IN hot - L1 black wire



**9**

Using a 5/16" Nut Driver remove the ground screw from the fixture gear tray. Insert ground screw through ring terminal on POWER IN green ground and re-anchor to gear tray.



10

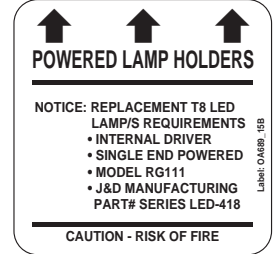
Completing the wiring process.

11

- Inspect your wire connections. Wire nuts should be snug and no bare wire showing.
- Ground screw and ring terminal should be snug and flush with gear tray.
- Keeping wiring clear of all pinch points reassemble gear tray into fixture body.

Installing T8 LED tubes into fixture.

- The gear tray with protruding lamp holders will have sticker/s indicating what bank of lamp holders are the powered lamp holders.

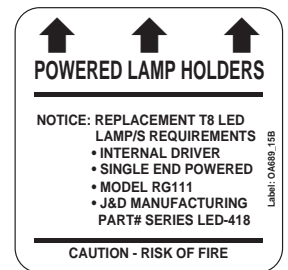


- Each LED-418 series T8 LED Tube has a label indicating the power supply end. The power supply end of the tube must be installed in the bank of powered lamp holders.



- Once both ends of the tube have been fully inserted into the correct lamp holders slots, rotate tube 90° to lock and engage tube (you will feel tube click into place).

12



Secure fixture lens to fixture body.

13

- Once all tubes have been installed, seat lens against gasket and using all 8 latches secure fixture lens to fixture body. All latches must be used to maintain the suitable for wet location status.

# J&D Manufacturing

## GENERAL WIRING DIAGRAM FOR 8' T8 LED LIGHTING W/NL

4 Tube - 8' Fixture



6 Tube - 8' Fixture



## WARRANTY

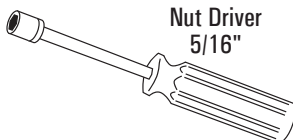
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## RECOMMENDED TOOLS FOR WIRING (NOT PROVIDED)

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Nut Driver  
5/16"



## INSTALLATION

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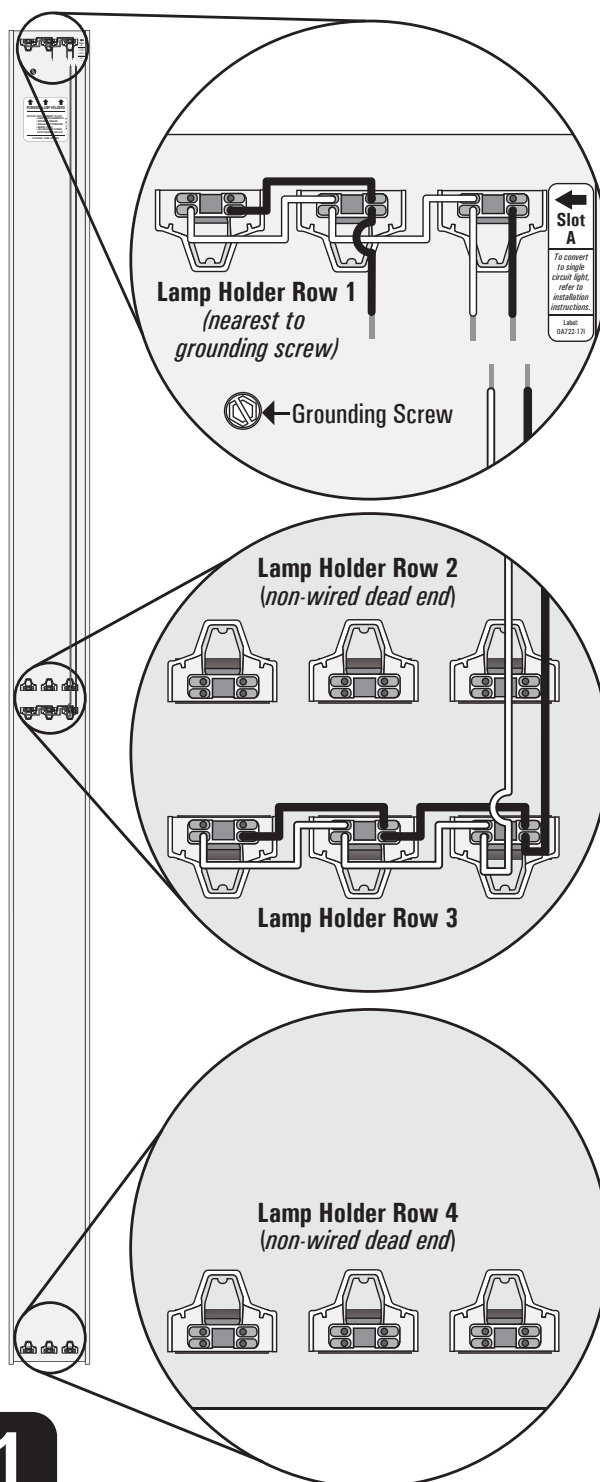
**⚠ DISCONNECT POWER ⚠**  
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Using the diagram below, identify Lamp Holder Row 1 and Row 3.



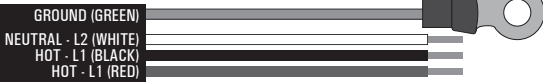
**1**

Fixture is wired with 2-circuits enabling the powering down to only one tube per fixture, a "safety/ night light" feature.

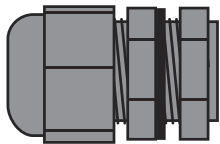
To rewire fixture to 1-circuit proceed to **Step 6**.

**Additional (not provided) parts required to maintain UL "suitable for wet locations" status**

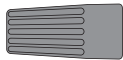
**Power In**



Power cord that meets or exceeds load requirements and is rated for wet location



Properly sized water tight cord grip (listed liquid-tight conduit hub)



3- Properly sized wire nuts (size is based on connecting wires combined diameter)

**2**

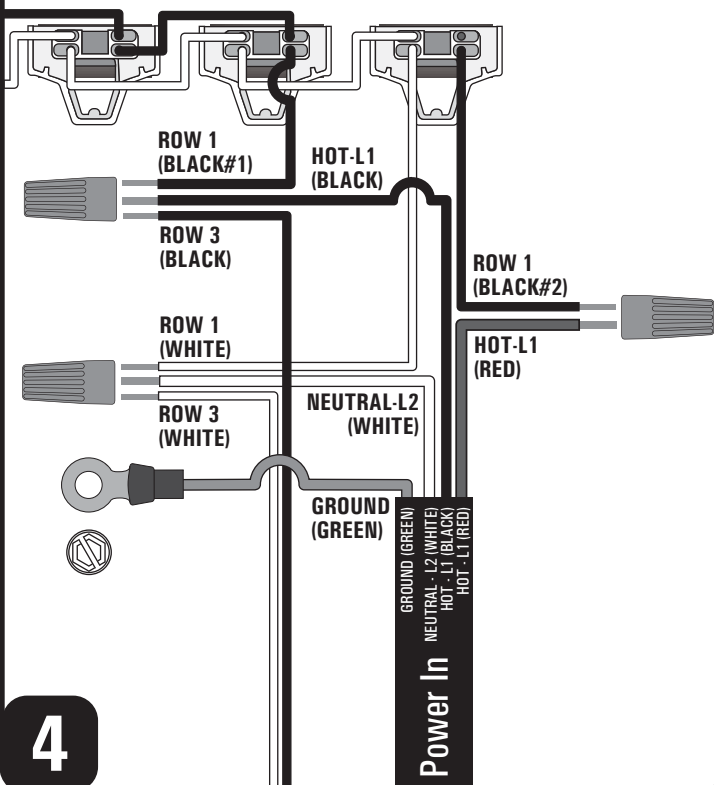
Beginning the wiring process.

**3**

- Power cord must run through the access ports in the fixture body and be secured with a properly sized water tight cord grip. **Properly sized water tight cord grip must be used to maintain the suitable for wet location status.**

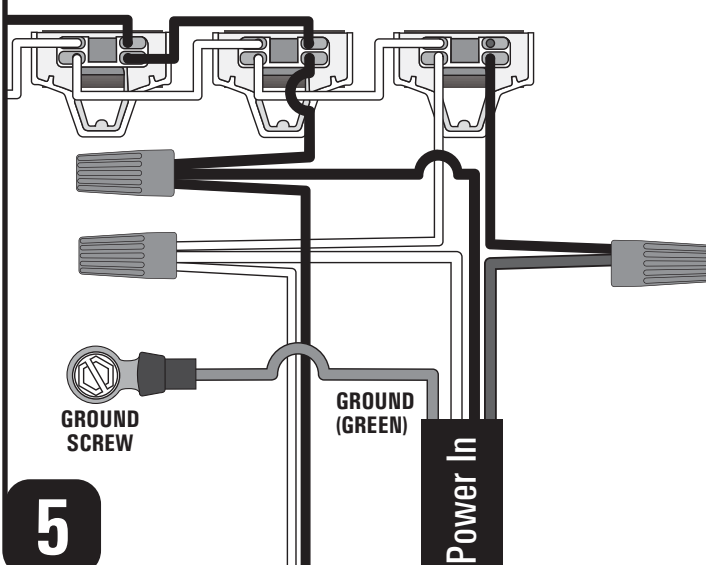
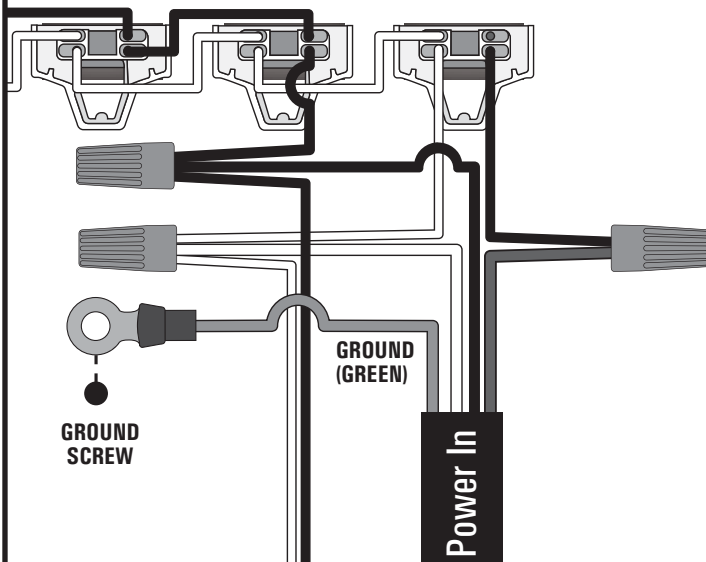
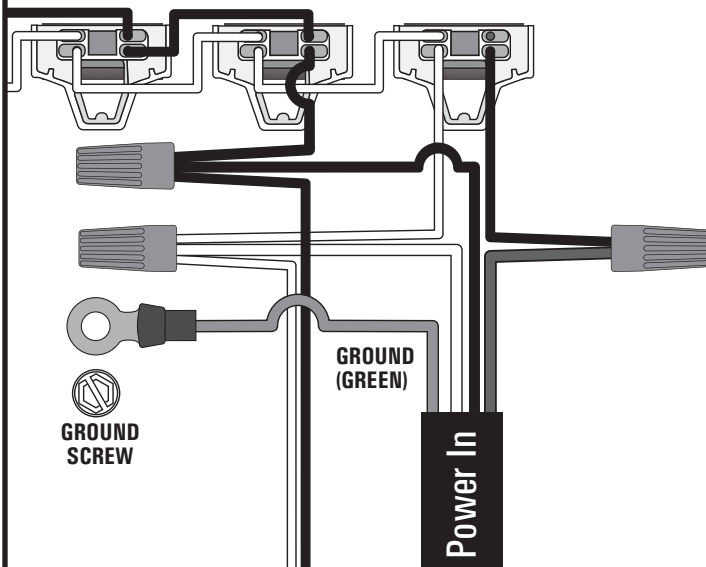
Using properly sized wire nut for each connection secure as shown below:

- Fixture's ROW 1 white wire, ROW 3 white wire, and the POWER IN neutral - L2 white wire
- Fixture's ROW 1 black wire #1, ROW 3 black wire, and the POWER IN hot - L1 black wire
- Fixtures ROW 1 black wire #2 (this is for Night Light) and the POWER IN hot - L1 red wire



**4**

Using a 5/16" Nut Driver remove the ground screw from the fixture gear tray. Insert ground screw through ring terminal on POWER IN green ground and re-anchor to gear tray.



**5**

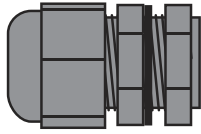
Proceed to Step 11.

**Additional (not provided) parts required to maintain UL "suitable for wet locations" status**

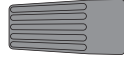


**Power In**

Power cord that meets or exceeds load requirements and is rated for wet location



Properly sized water tight cord grip (listed liquid-tight conduit hub)



2- Properly sized wire nuts (size is based on connecting wires combined diameter)

**6**

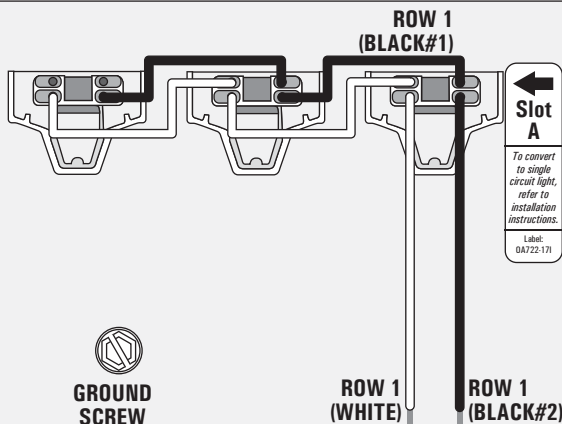
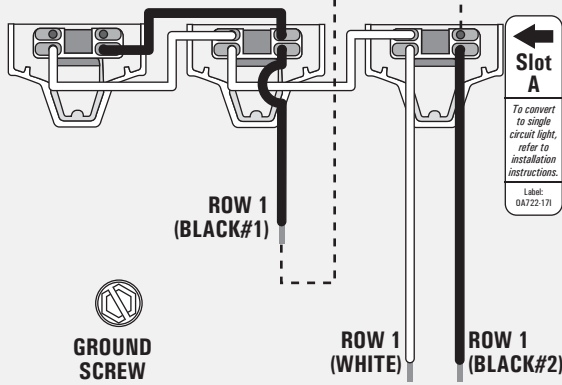
Beginning the wiring process.

- Power cord must run through the access ports in the fixture body and be secured with a properly sized water tight cord grip. Properly sized water tight cord grip must be used to maintain the suitable for wet location status.

**7**

To convert light to single circuit, insert the end of ROW 1 Black wire #1 as far as it will go into Slot A.

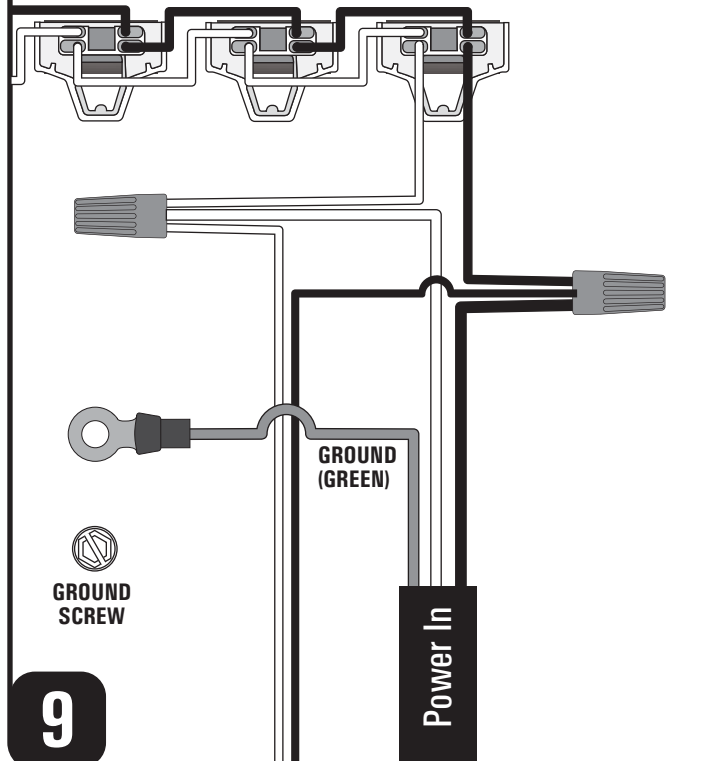
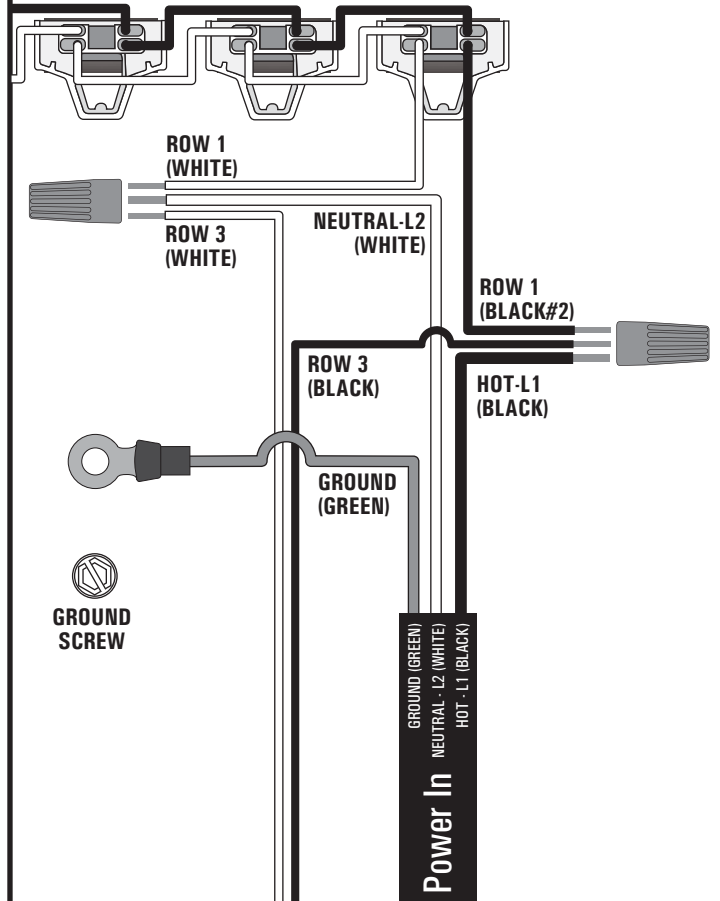
NOTE: Slot A is indicated by a label as shown below.



**8**

Using properly sized wire nut for each connection secure as shown below:

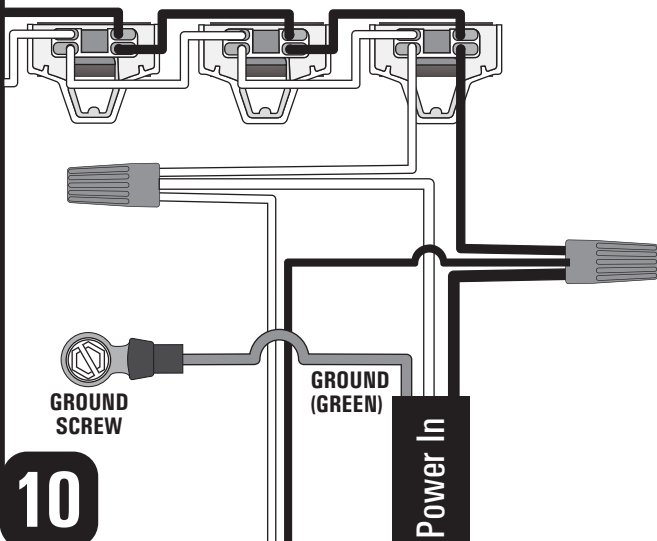
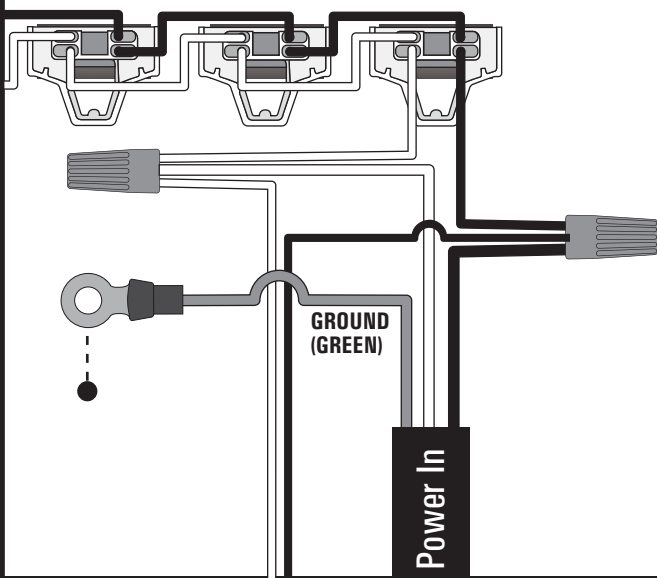
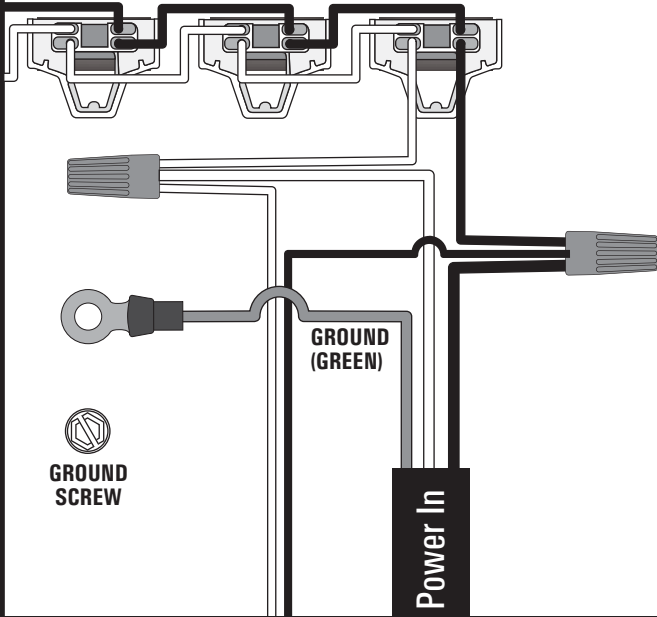
- Fixture's ROW 1 white wire and the POWER IN neutral - L2 white wire
- Fixtures ROW 1 black wire #2 and the POWER IN hot - L1 black wire



**9**



Using a 5/16" Nut Driver remove the ground screw from the fixture gear tray. Insert ground screw through ring terminal on POWER IN green ground and re-anchor to gear tray.



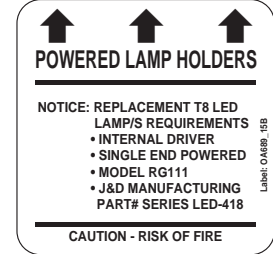
### Completing the wiring process.

**11**

- Inspect your wire connections. Wire nuts should be snug and no bare wire showing.
- Ground screw and ring terminal should be snug and flush with gear tray.
- Keeping wiring clear of all pinch points reassemble gear tray into fixture body.

### Installing T8 LED tubes into fixture.

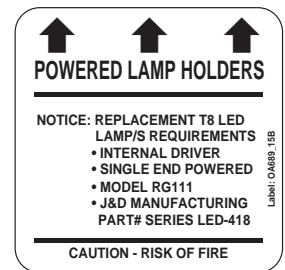
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- Once both ends of the tube have been fully inserted into the correct lamp holders slots, rotate tube 90° to lock and engage tube (you will feel tube click into place).



**12**

### Secure fixture lens to fixture body.

**13**

- Once all tubes have been installed, seat lens against gasket and using all 12 latches secure fixture lens to fixture body. All latches must be used to maintain the suitable for wet location status.



# J&D Manufacturing

## GENERAL WIRING DIAGRAM FOR 2x4' T8 LED LIGHTING W/NL

4 Tube - 2x4' Fixture



6 Tube - 2x4' Fixture (High Bay)



## WARRANTY

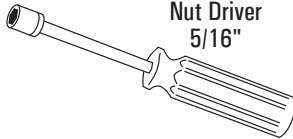
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Nut Driver  
5/16"



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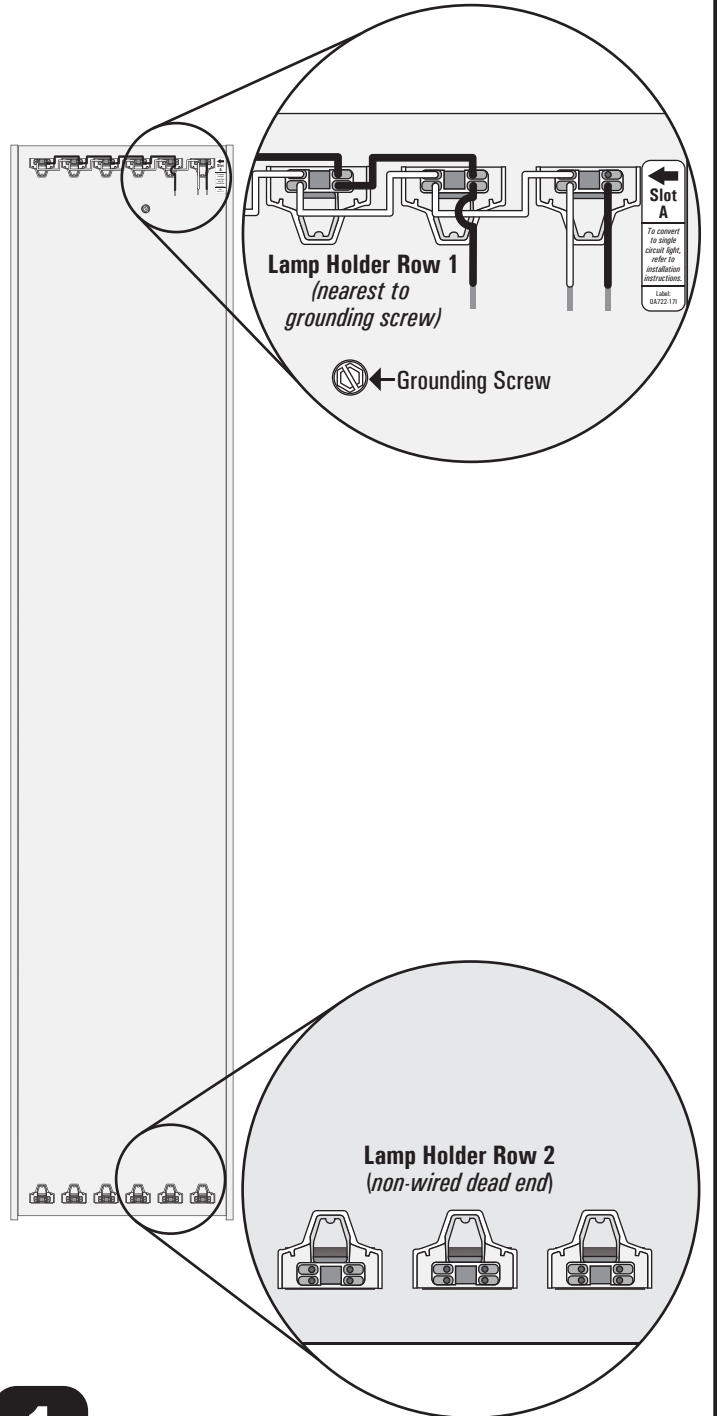


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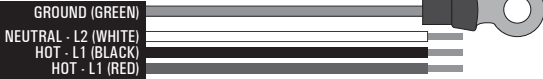
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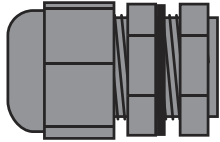
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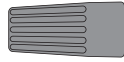
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3- Properly sized wire nuts (size is based on connecting wires combined diameter)

**2**

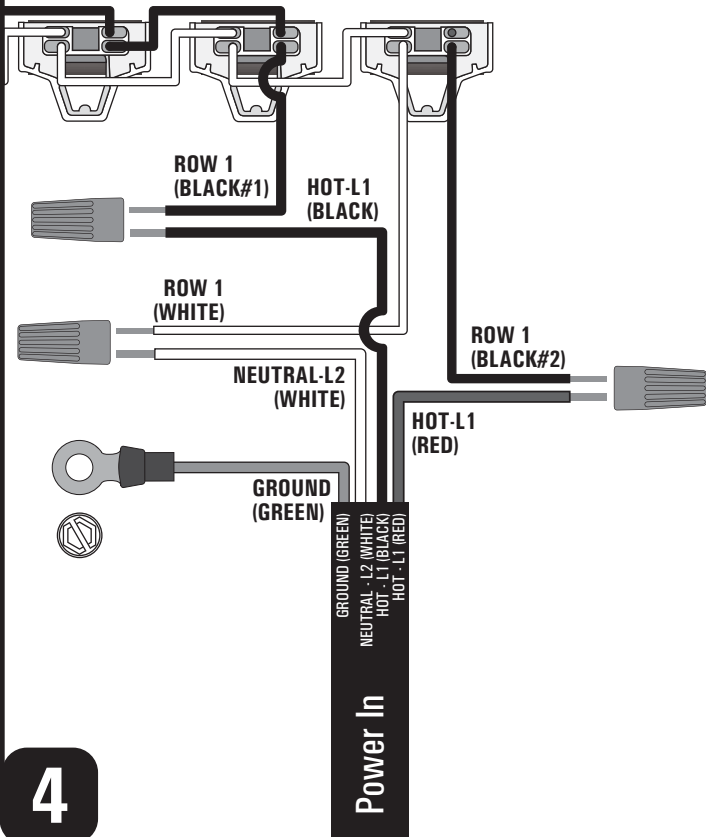
Beginning the wiring process.

**3**

- Power cord must run through the access ports in the fixture body and be secured with a properly sized water tight cord grip. **Properly sized water tight cord grip must be used to maintain the suitable for wet location status.**

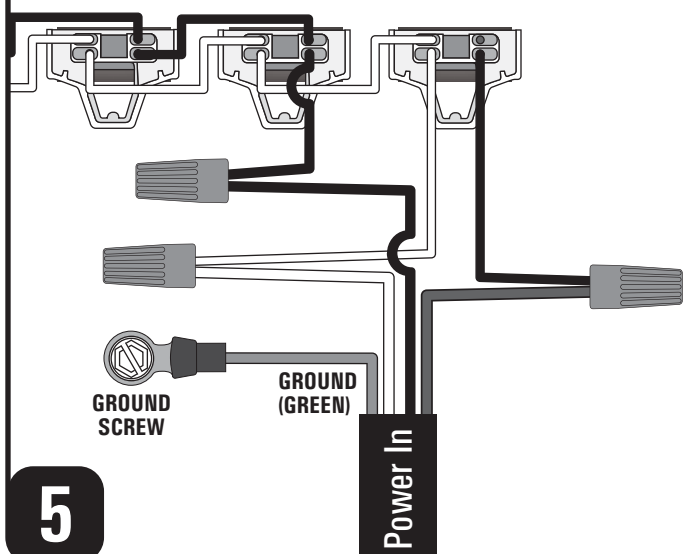
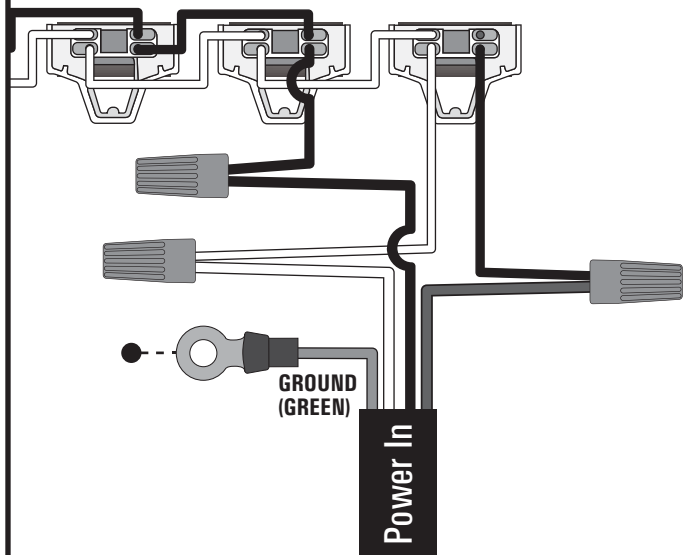
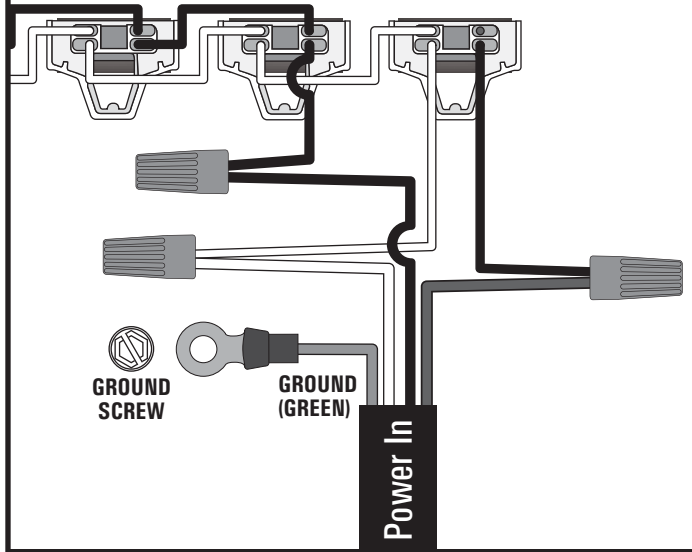
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**5**

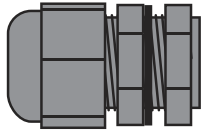
Proceed to Step 11.

**Additional (not provided) parts required to maintain UL "suitable for wet locations" status**

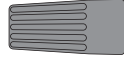


**Power In**

Power cord that meets or exceeds load requirements and is rated for wet location



Properly sized water tight cord grip (listed liquid-tight conduit hub)



2- Properly sized wire nuts (size is based on connecting wires combined diameter)

**6**

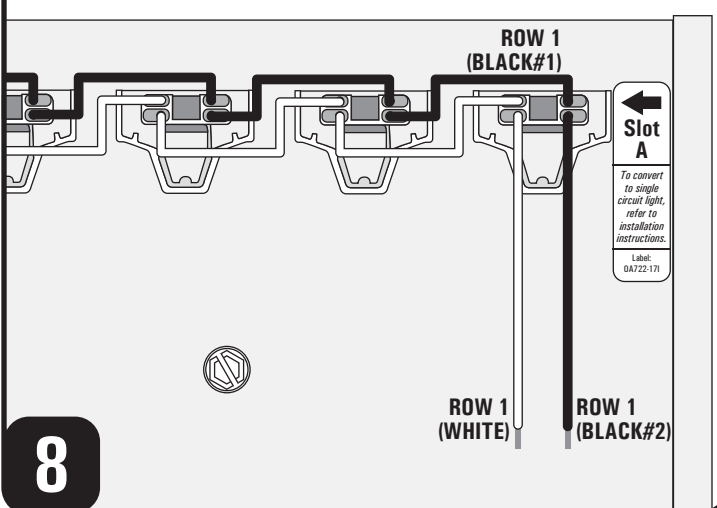
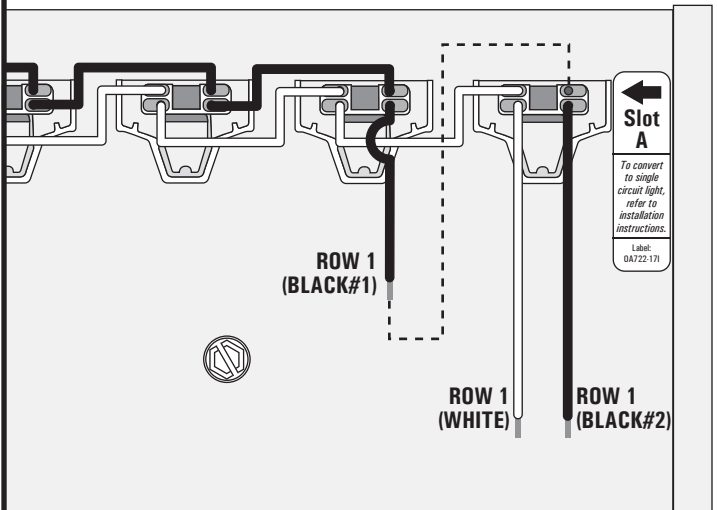
Beginning the wiring process.

- Power cord must run through the access ports in the fixture body and be secured with a properly sized water tight cord grip. Properly sized water tight cord grip must be used to maintain the suitable for wet location status.

**7**

To convert light to single circuit, insert the end of ROW 1 Black wire #1 as far as it will go into Slot A.

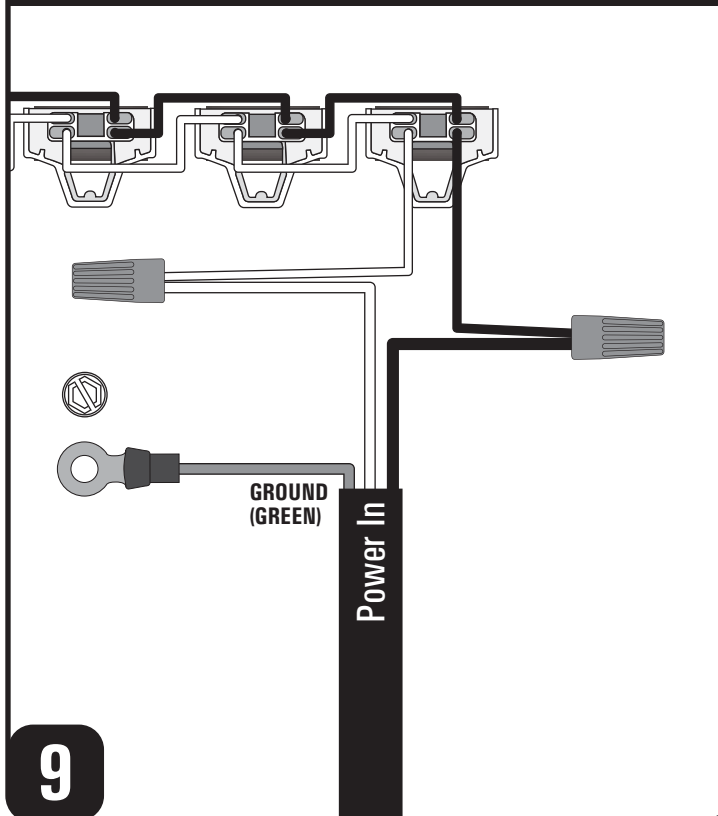
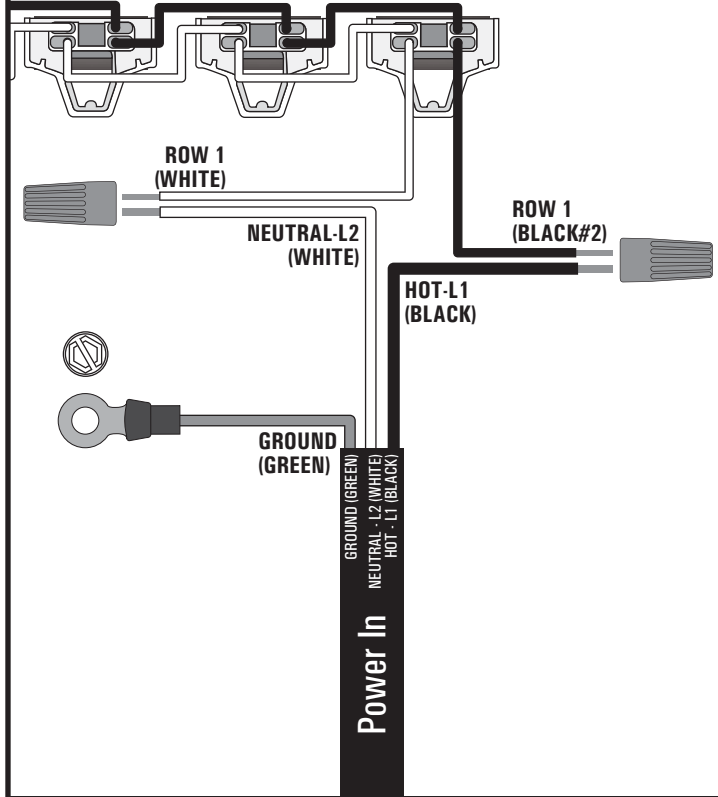
NOTE: Slot A is indicated by a label as shown below.



**8**

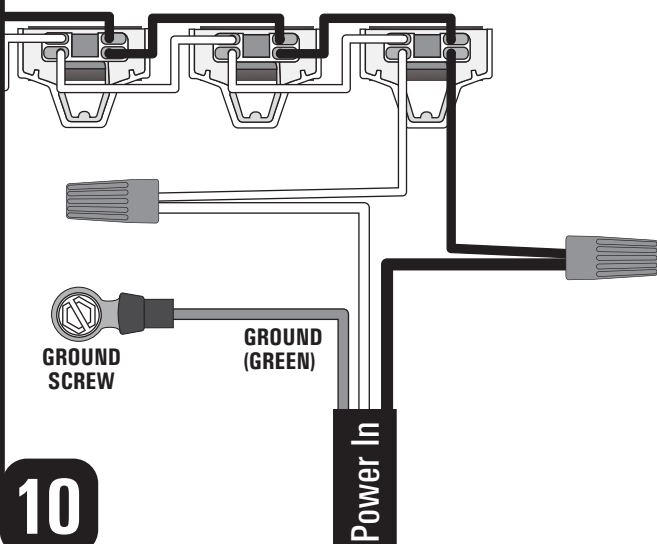
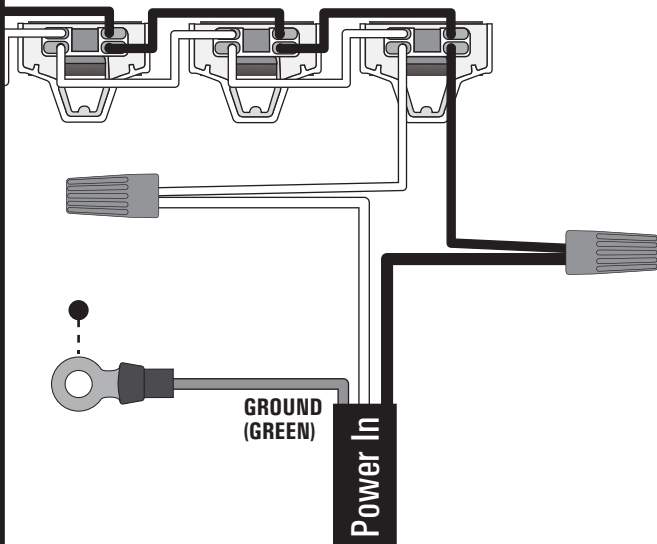
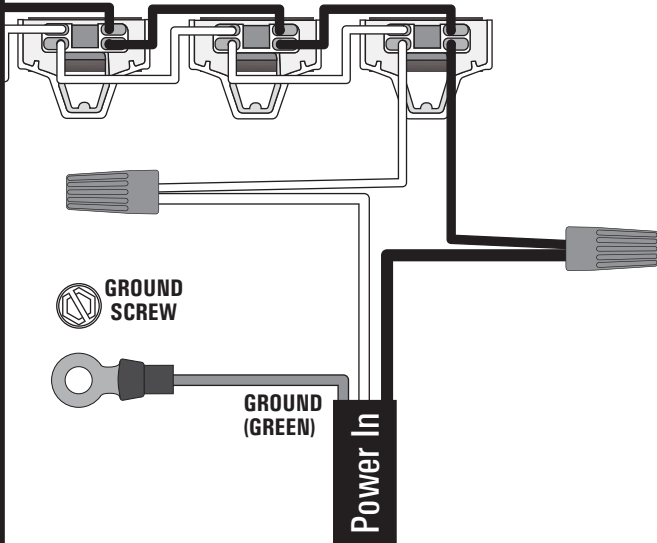
Using properly sized wire nut for each connection secure as shown below:

- Fixture's ROW 1 white wire and the POWER IN neutral - L2 white wire
- Fixtures ROW 1 black wire #2 and the POWER IN hot - L1 black wire



**9**

Using a 5/16" Nut Driver remove the ground screw from the fixture gear tray. Insert ground screw through ring terminal on POWER IN green ground and re-anchor to gear tray.



**10**

Completing the wiring process.

**11**

- Inspect your wire connections. Wire nuts should be snug and no bare wire showing.
- Ground screw and ring terminal should be snug and flush with gear tray.
- Keeping wiring clear of all pinch points reassemble gear tray into fixture body.

Installing T8 LED tubes into fixture.

- The gear tray with protruding lamp holders will have sticker/s indicating what bank of lamp holders are the powered lamp holders.

↑ ↑ ↑  
**POWERED LAMP HOLDERS**

NOTICE: REPLACEMENT T8 LED LAMP/S REQUIREMENTS  
 • INTERNAL DRIVER  
 • SINGLE END POWERED  
 • MODEL RG111  
 • J&D MANUFACTURING  
 PART# SERIES LED-418

Label: OAR88 15B

CAUTION - RISK OF FIRE

- Each LED-418 series T8 LED Tube has a label indicating the power supply end. The power supply end of the tube must be installed in the bank of powered lamp holders.



- Once both ends of the tube have been fully inserted into the correct lamp holders slots, rotate tube 90° to lock and engage tube (you will feel tube click into place).

**12**



↑ ↑ ↑  
**POWERED LAMP HOLDERS**

NOTICE: REPLACEMENT T8 LED LAMP/S REQUIREMENTS  
 • INTERNAL DRIVER  
 • SINGLE END POWERED  
 • MODEL RG111  
 • J&D MANUFACTURING  
 PART# SERIES LED-418

Label: OAR88 15B

CAUTION - RISK OF FIRE

Secure fixture lens to fixture body.

**13**

- Once all tubes have been installed, seat lens against gasket and using all 12 latches secure fixture lens to fixture body. All latches must be used to maintain the suitable for wet location status.