

# DMX SYSTEM INSTALLATION GUIDE

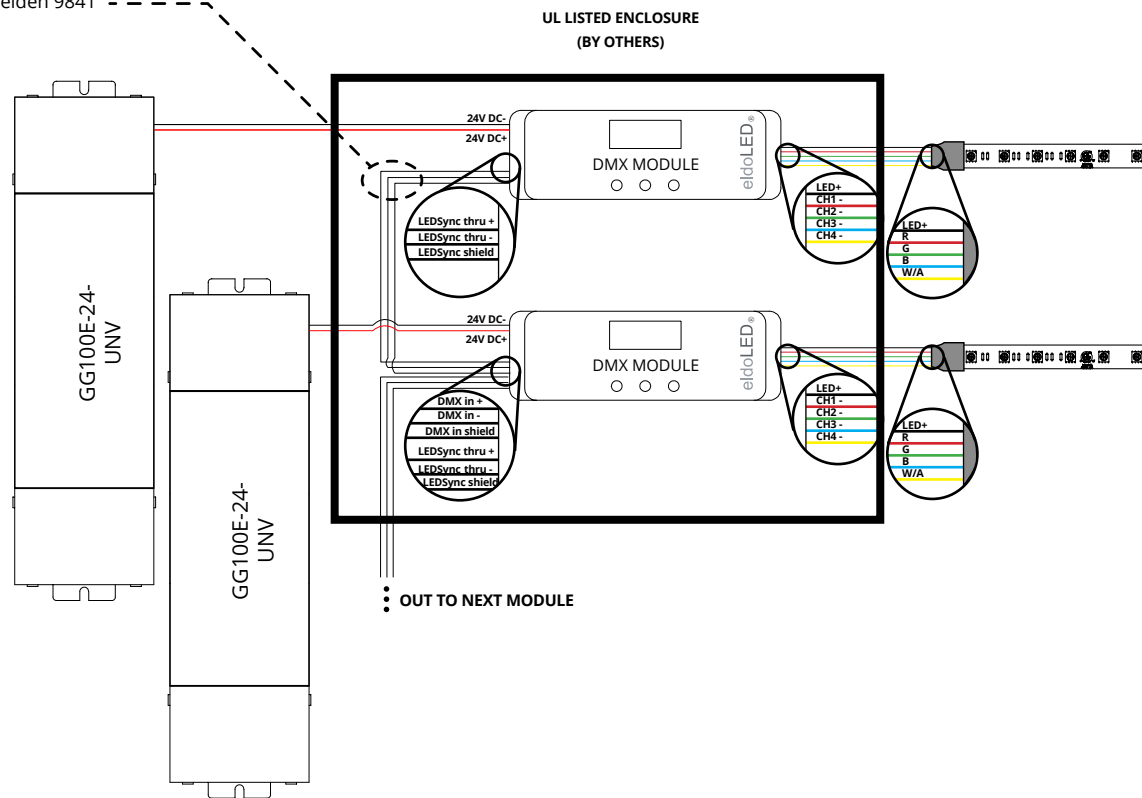
## NOTES

1. All installations shall be executed in accordance with local building codes.
2. The installing contractor assumes all liability for the safety and code compliance of the installation.
3. Optic Arts is not liable for any damages caused by improper wiring, circuit overloading, power surges, system design or layout, negligence, or other conditions.

## DMX SYSTEM STANDALONE MODE

DMX Cabling such as Belden 9841 (or similar):

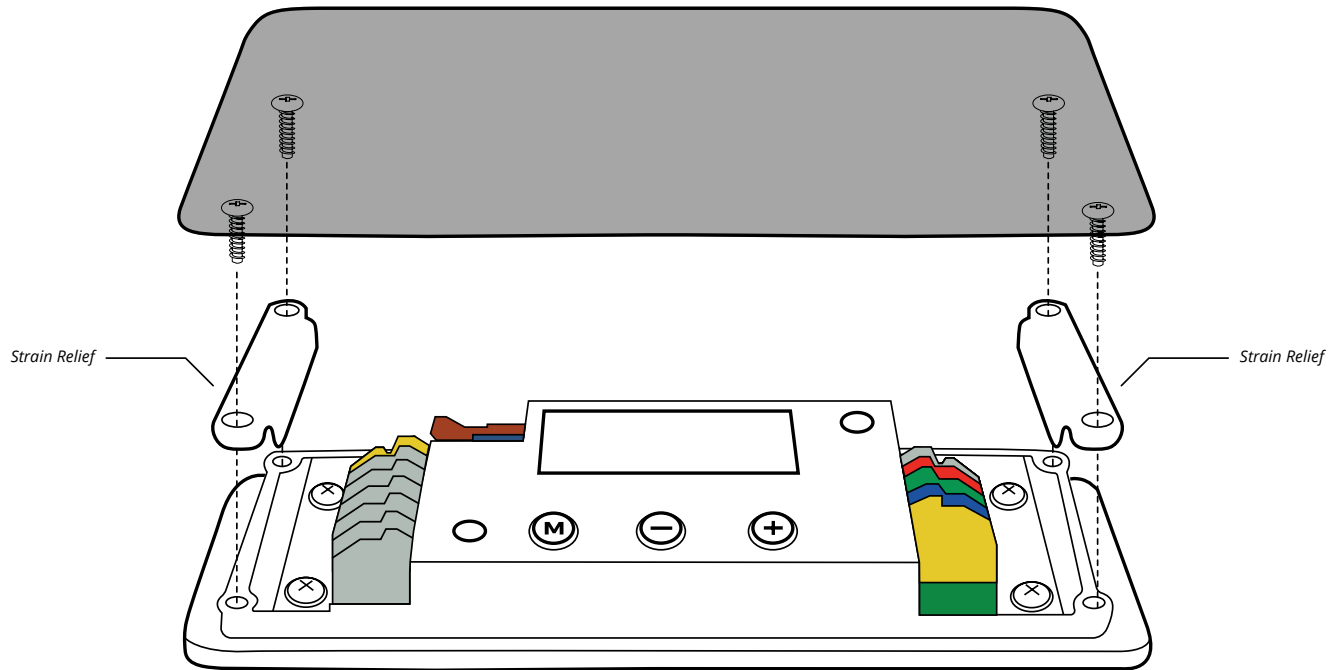
- Blue > DMX+
- White > DMX-
- Shield > Common





## WIRING INSTALLATION

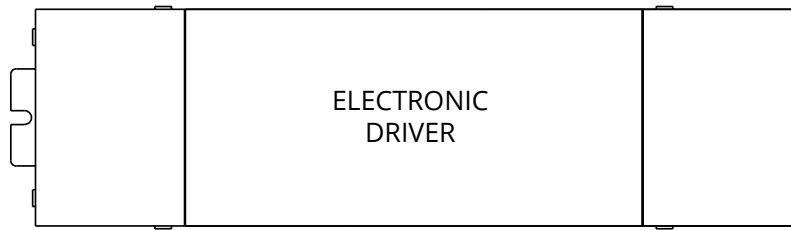
**1.**



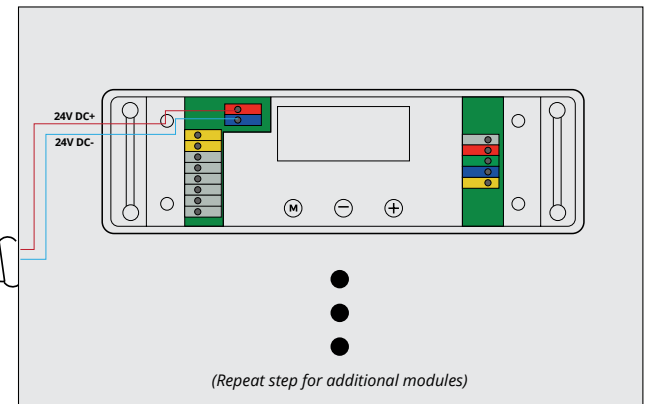
- 1.1** Identify mounting location for driver & eldoLED® LinearDrive100D(s). eldoLED® LinearDrive100D(s) must be mounted in a UL listed Junction Box (by others).
- 1.2** Remove faceplate cover.
- 1.3** Mount eldoLED® LinearDrive100D(s) in a UL listed Junction Box (by others).
- 1.4** Remove strain relief pieces.

## 2.

Page must be printed in color.



●  
 ●  
 ●  
 (Repeat step for additional drivers)



UL Listed Enclosure (By Others)

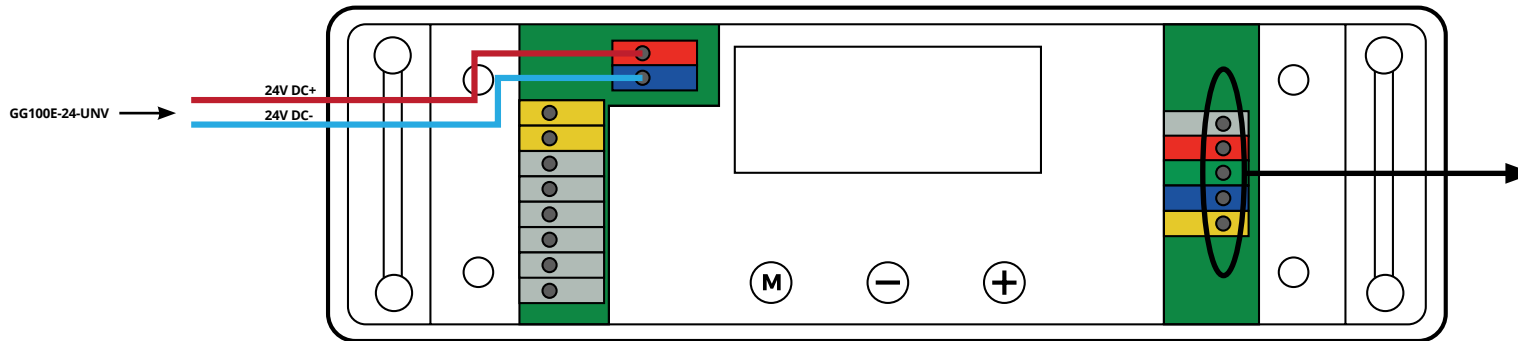
**2.1** Wire 24VDC into eldoLED® LinearDrive100D(s) using the GG100E-24-UNV(s) through UL Listed conduit(s).

# DMX SYSTEM INSTALLATION GUIDE

## WIRING INSTALLATION

**3.**

Page must be printed in color.



### FLEX WIRING:

- FLEX RGB
  - LED+
  - R
  - G
  - B
- FLEX RGBA/W
  - LED+
  - R
  - G
  - B
  - W/A
  - C
- FLEX VW
  - LED+
  - C\*
  - W
- FLEX Single Color
  - LED+
  - LED-

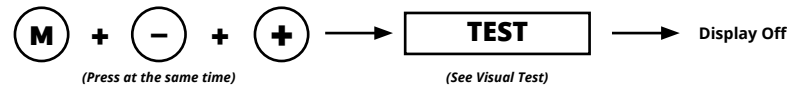
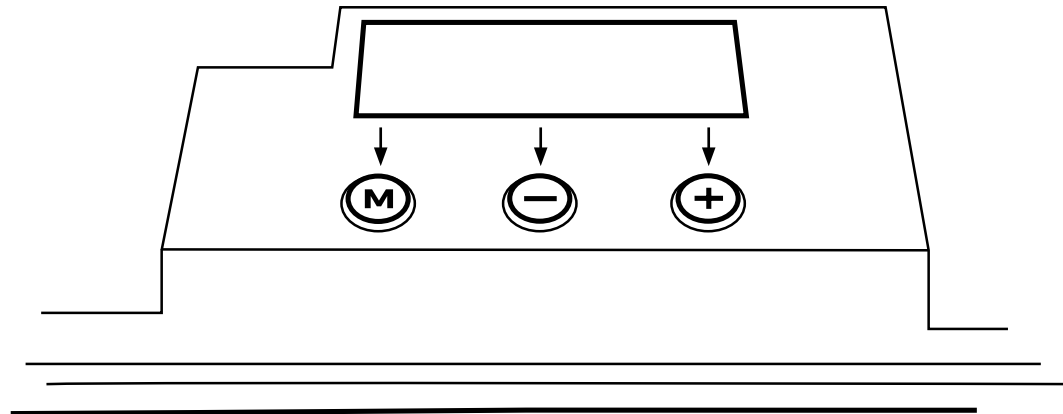
**3.1** Connect lead wires from light fixture or tape, as applicable to the product being installed.

\*Wire is either white or red, depending on specific product.

# DMX SYSTEM INSTALLATION GUIDE

## 4.

Page must be printed in color.



- 4.1 Run visual test by tapping the three control buttons simultaneously.
  - 4.2 If LEDs on fixture flash in sequence shown on display, the eldoLED® LinearDrive100D is successfully installed.
- If any control channels are not functioning, turn to next page to troubleshoot the malfunctioning FLEX product.**

### VISUAL TEST:

|                     | On Screen: | At Fixture: |
|---------------------|------------|-------------|
| • FLEX RGB          | 2x ↓ R     |             |
|                     | G          |             |
|                     | B          |             |
|                     | W          | No Light    |
|                     | RGBW       |             |
| • FLEX RGBA/W       | 2x ↓ R     |             |
|                     | G          |             |
|                     | B          |             |
|                     | W          |             |
|                     | RGBW       |             |
| • FLEX VW           | 2x ↓ R     |             |
|                     | G          |             |
|                     | B          | No Light    |
|                     | W          | No Light    |
|                     | RGBW       |             |
| • FLEX Single Color | 2x ↓ R     |             |
|                     | G          | No Light    |
|                     | B          | No Light    |
|                     | W          | No Light    |
|                     | RGBW       |             |

\*Color specified will flash

## 4. Cntd.

### TROUBLESHOOTING MALFUNCTIONING FLEX PRODUCT

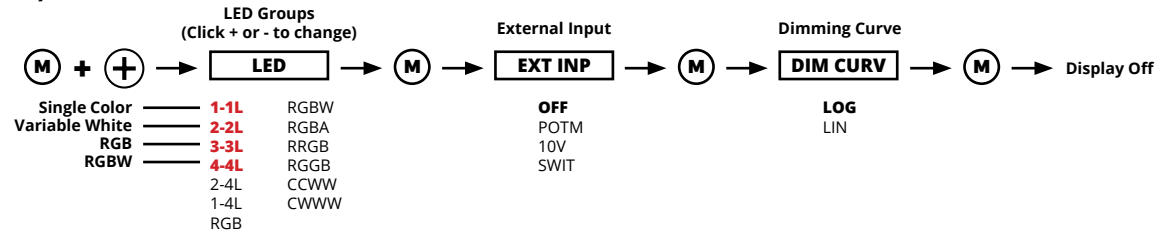
Follow step by step until issue is resolved.

**A.** If none of the FLEX LEDs are turning on, tap M button to see if display on eldoLED® Linear100D will turn on.

- If display does not turn on, turn to next page to review **TROUBLESHOOTING MALFUNCTIONING eldoLED® Linear100D.**
- If display does turn on, move on to next step.

**B.** Program eldoLED® Linear100D to relevant Color Group to match LED setup. Hold **M** to switch to color.

#### B) LED GROUPS

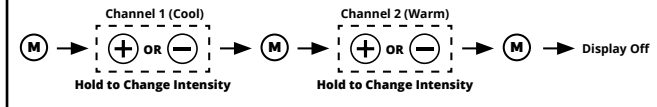


**C.** Raise the intensity of the first color to ensure that a FLEX color correlates with the channel. Lower the intensity to lowest setting, and repeat with next channel until each color has been verified.

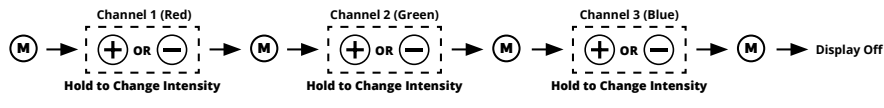
#### C) SINGLE COLOR



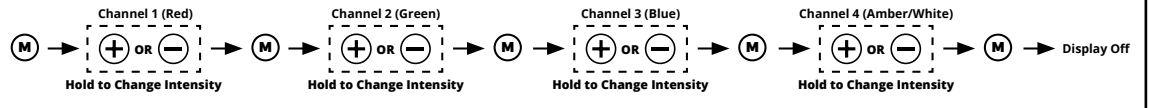
#### C Cntd.) VARIABLE WHITE



#### C Cntd.) RGB



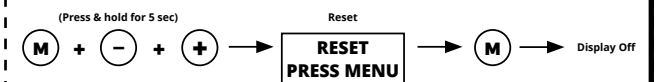
#### C Cntd.) RGBA/W



#### OPTIC ARTS PRO TIP:

If eldoLED® Linear100D continues to malfunction, refer to **Reset To Factory Default.**

#### Reset to Factory Defaults



## 4. Cntd.

### TROUBLESHOOTING MALFUNCTIONING eldoLED® Linear100D

**Follow step by step until issue is resolved.**

- A.** Hold down all three buttons for 5 seconds to reset eldoLED® Linear100D. If eldoLED® Linear100D display does not turn on, move on to next step.
- B.** Wire a different eldoLED® Linear100D to same driver. If eldoLED® Linear100D display does not turn on, repeat Step A with multiple eldoLED® Linear100D modules. If multiple eldoLED® Linear100D displays still do not turn on, move on to next step.
- C.** Wire eldoLED® Linear100D to another driver. Driver must be off first. Do not wire hot. If eldoLED® Linear100D display does not turn on, repeat Step A with multiple eldoLED® Linear100D modules on the most current driver. If multiple eldoLED® Linear100D displays do not turn on, turn to next page to review **TROUBLESHOOTING MALFUNCTIONING ELECTRONIC DRIVER**.



## 4. Cntd.

### TROUBLESHOOTING MALFUNCTIONING ELECTRONIC DRIVER

**Follow step by step until issue is resolved.**

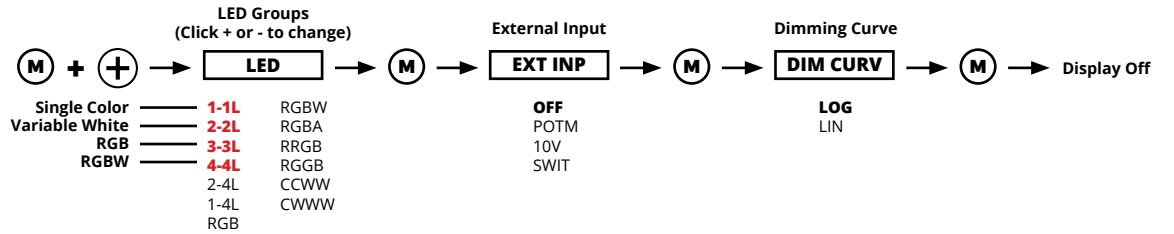
DRIVER MUST BE OFF FIRST - DO NOT WIRE HOT

- A.** Wire one channel of FLEX product directly into ELECTRONIC DRIVER. If FLEX product does not turn on, move on to next step.
- B.** Wire the same channel of FLEX product to a different ELECTRONIC DRIVER. If FLEX product still does not turn on, repeat Step A & B with a different FLEX channel or FLEX product. If FLEX product still does not turn on, check input power to driver(s) (120/277 VAC).
  - If issue is found with input power, resolve issue and return to Step 2 (pg. 3).
  - If input power is not the issue, contact Optic Arts at **(213) 250-6069** to replace ELECTRONIC DRIVER(s).

# DMX SYSTEM INSTALLATION GUIDE

## 5 STANDALONE.

### LED Groups



5.1 Program eldoLED® Linear100D to relevant color group to match LED strip (See List).

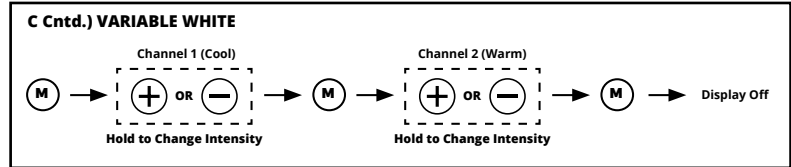
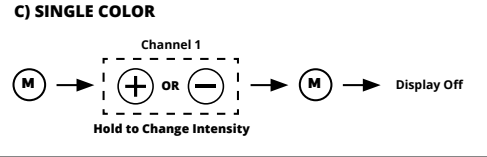
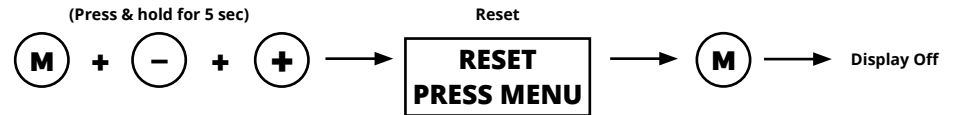
\*If eldoLED® Linear100D does not function properly, reset to factory defaults.



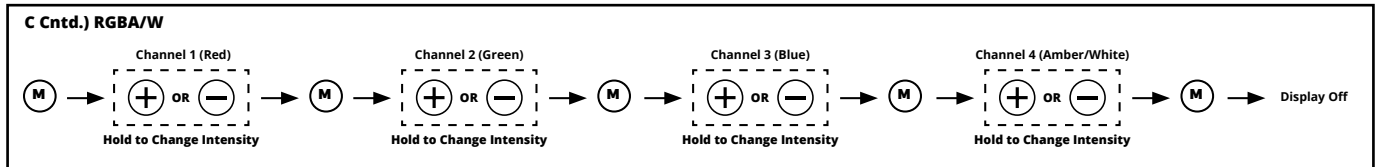
**OPTIC ARTS PRO TIP:**

If eldoLED® Linear100D continues to malfunction, refer to **Reset To Factory Default**.

### Reset to Factory Defaults



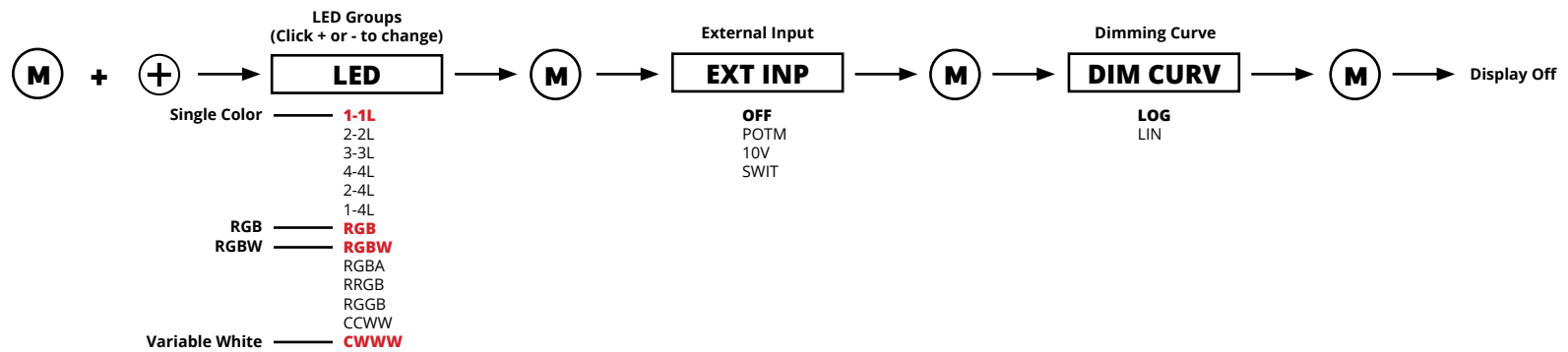
5.2 Adjust intensity of each channel until the desired color is reached. Use diagrams on the right to program correlating color scheme.





## 5 DMX CONTROLLER.

### LED Groups

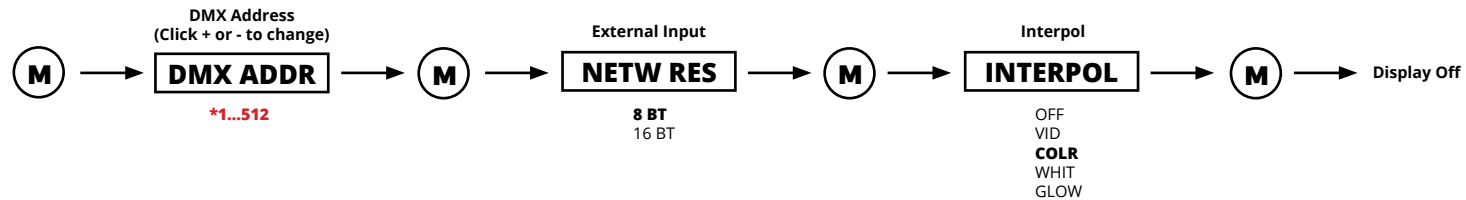
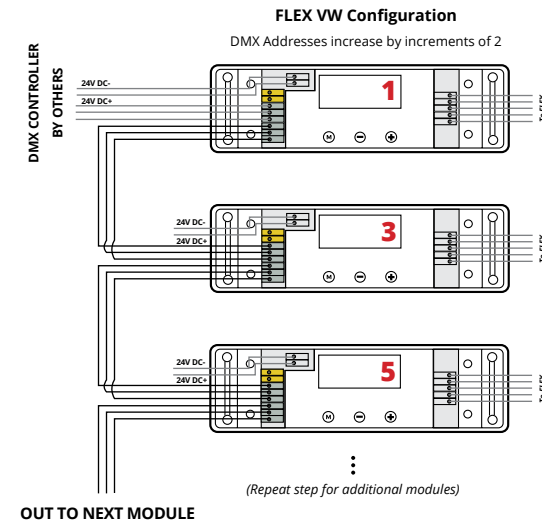
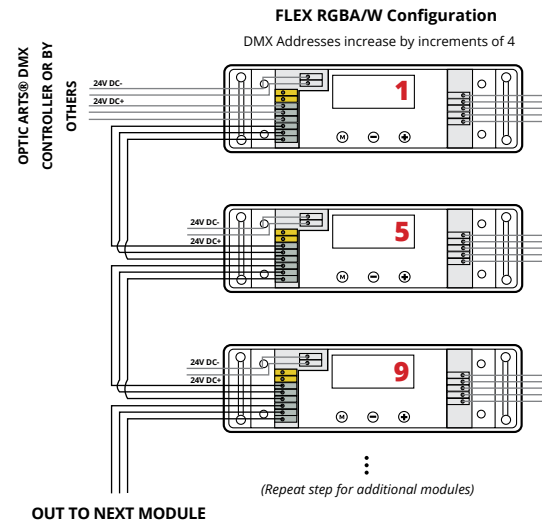
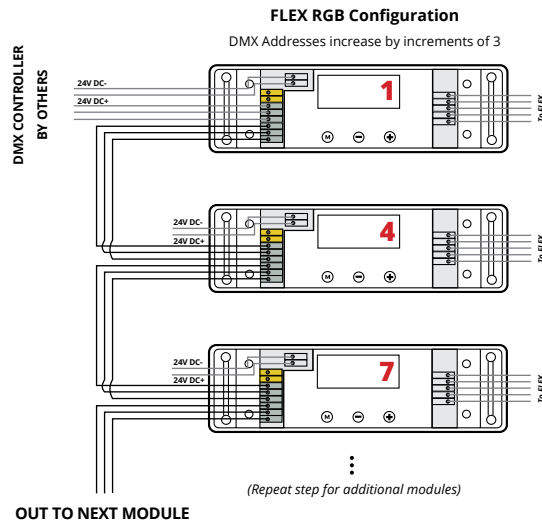


5.3 Program eldoLED® Linear100D to relevant color group to match LED strip (**See List**).

*\*If eldoLED® Linear100D does not function properly, reset to factory defaults.*

## 5 DMX CONTROLLER.

### Setting DMX Address



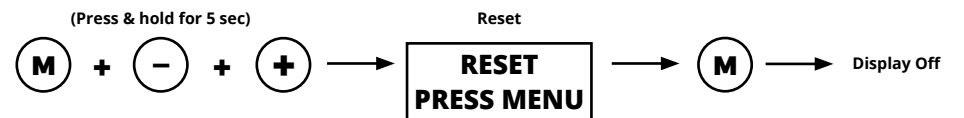
5.4 Set DMX Addresses according to the desired zones of control.

\*If eldoLED® Linear100D does not function properly, reset to factory defaults.



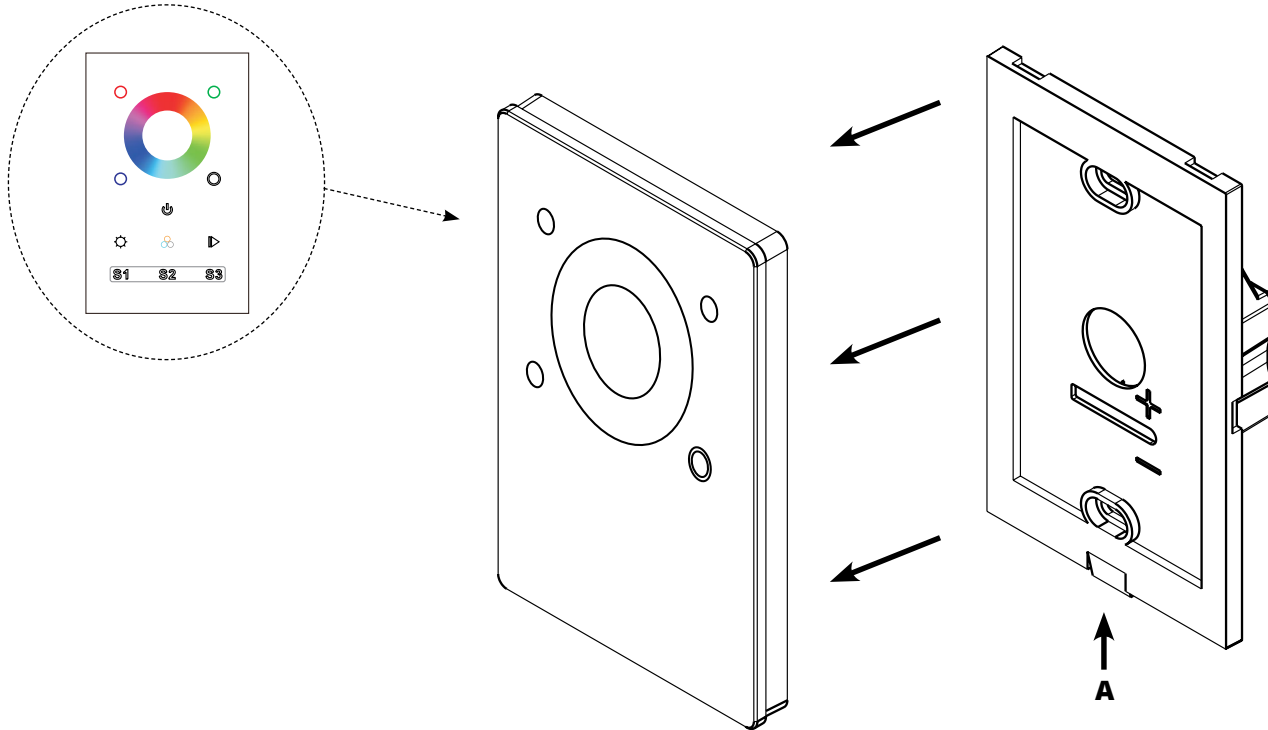
**OPTIC ARTS PRO TIP:**  
 If eldoLED® Linear100D continues to malfunction, refer to **Reset To Factory Default**.

#### Reset to Factory Defaults



## 5 DMX CONTROLLER.

This step only is applicable if using an Optic Arts® DMX controller (CTRLDMX.4CH.3S.W).

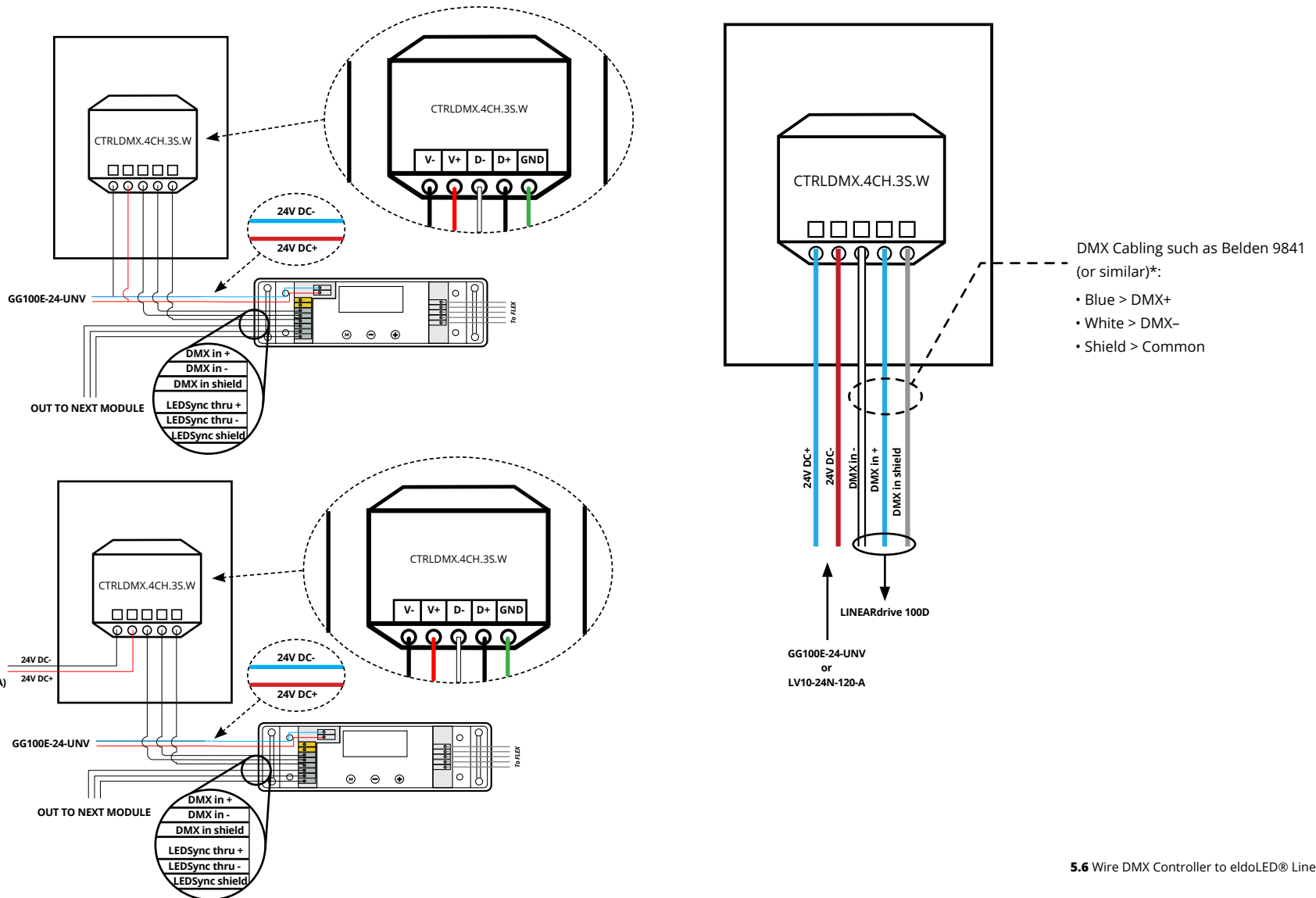


**5.5** Remove faceplate from controller by carefully inserting a flathead screwdriver into slot A and gently pulling up.

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## 5 DMX CONTROLLER.

This step only is applicable if using an Optic Arts® DMX controller (CTRLDMX.4CH.3S.W).



## 5 DMX CONTROLLER.

This step only is applicable if using an Optic Arts® DMX controller (CTRLDMX.4CH.3S.W).

### DMX Controller wired to GG100E-24-UNV Driver

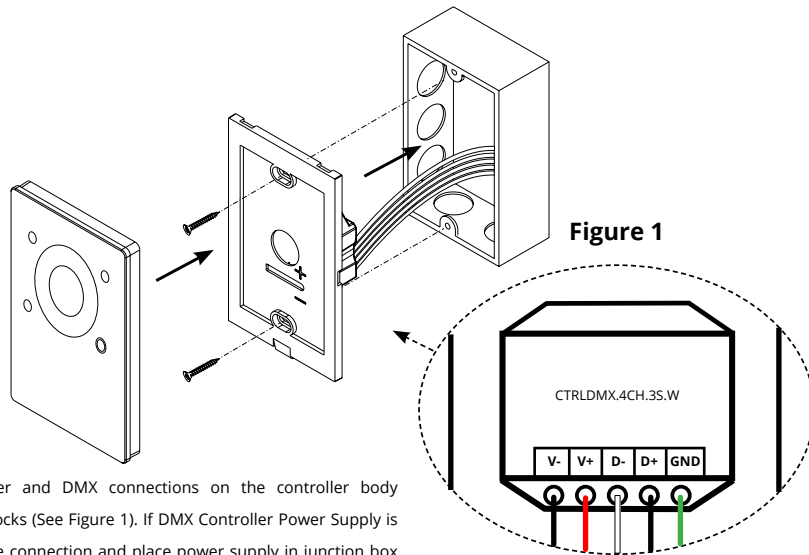


Figure 1

**5.7** Make power and DMX connections on the controller body terminal blocks (See Figure 1). If DMX Controller Power Supply is used, make connection and place power supply in junction box before proceeding to next step.

**5.8** Mount controller body on Junction Box with screws.

**5.9** Align faceplate connector with pins on controller body and snap faceplate into place.

**5.10** Fit controller onto Junction Box.

**Note:** Power to come from GG100E-24-UNV Driver used to power fixtures. Controller consumes 5 watts.

**Note:** Wire color coding depends on wire type used.

**Note:** Refer to Diagram #2 on Page 2 for wiring instructions.

### DMX Controller wired to DMX Controller Power Supply

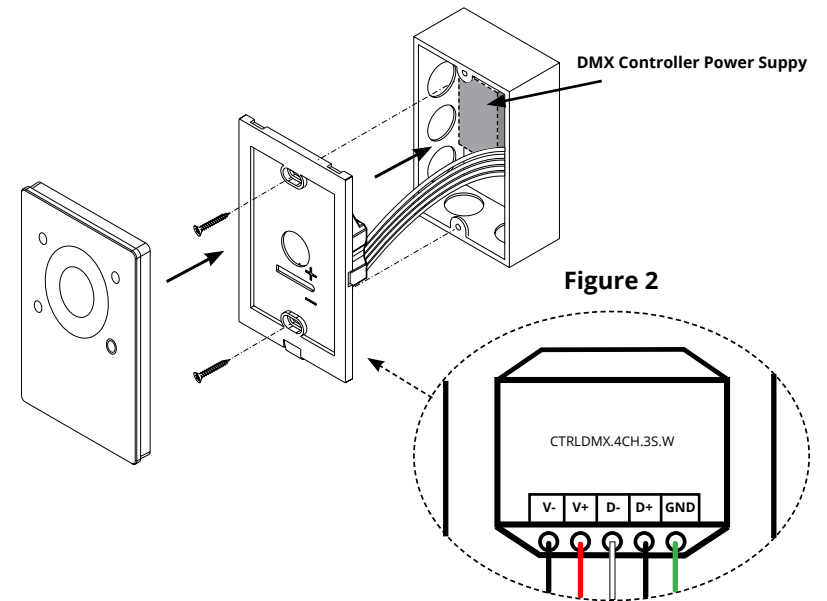


Figure 2

**Note:** Wire color coding depends on wire type used.

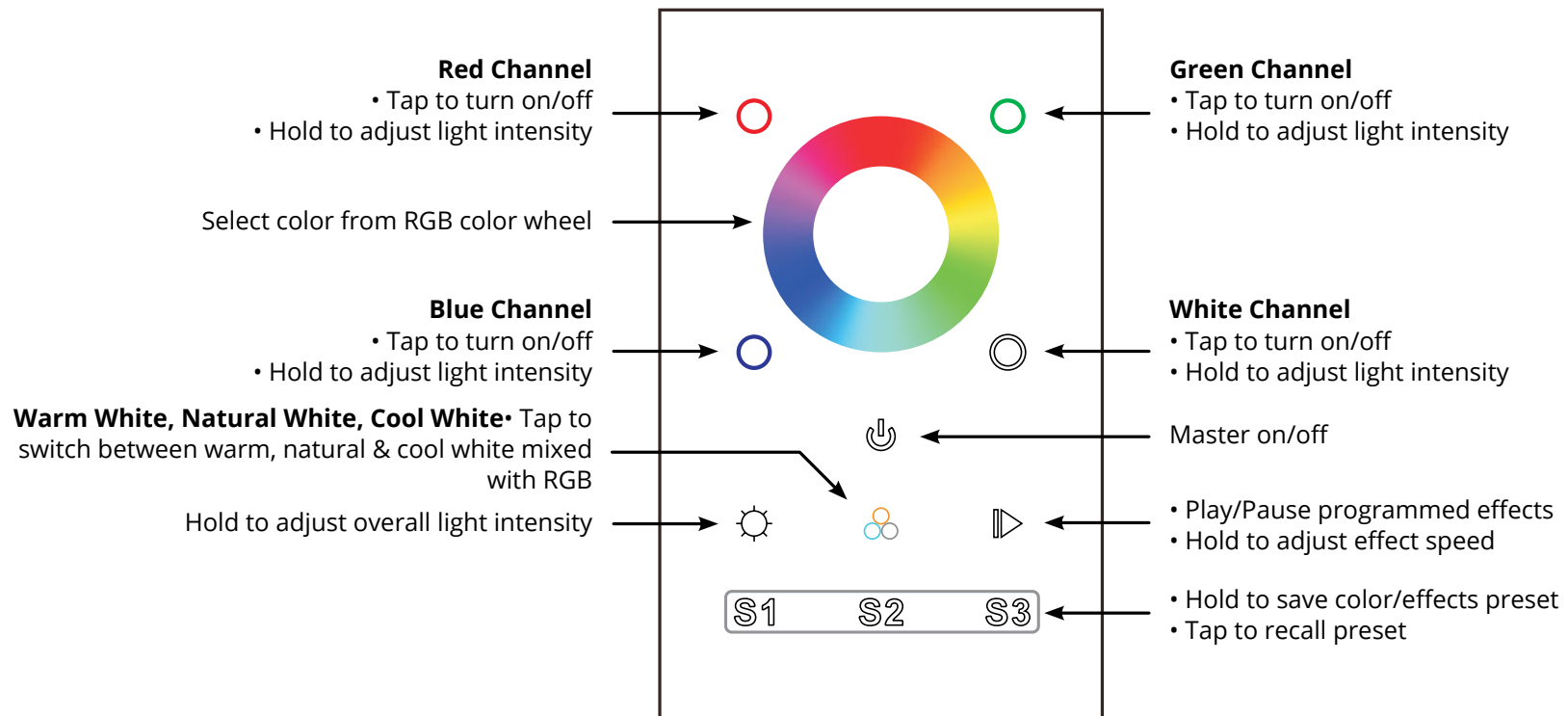
**Note:** Refer to Diagram #2 on Page 2 for wiring instructions.



## 5 DMX CONTROLLER.

This step only is applicable if using an Optic Arts® DMX controller (CTRLDMX.4CH.3S.W).

### WALL MOUNTED DMX CONTROLLER BUTTON FUNCTIONS










5.11 Test each function of DMX Controller to ensure successful installation.

## 5 DMX CONTROLLER.

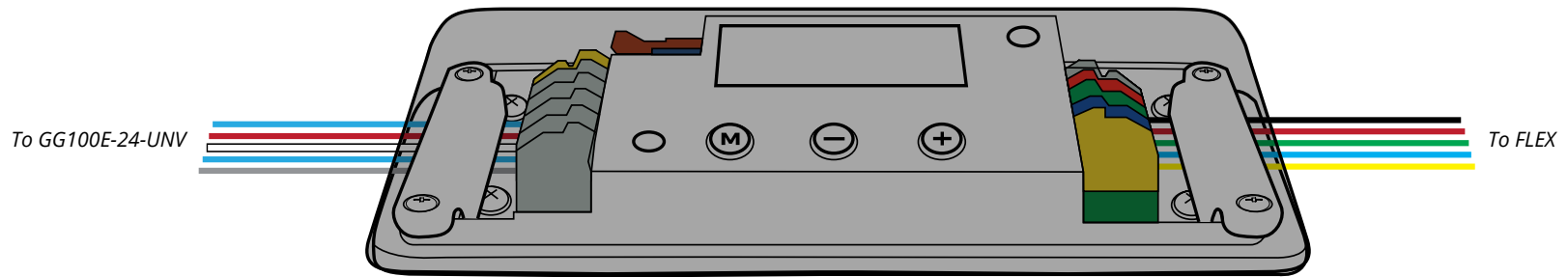
Page must be printed in color.

### TROUBLESHOOTING DMX CONTROLLER

Follow step by step until issue is resolved.

- A.** If controller is unresponsive, push  to turn off controller (red LED will light on Controller), then push  to turn on (blue LED will light on controller) & retest controller functionality. If light fixture does not turn on, move on to next step.
- B.** Turn on controller and hold down  to test and see if light fixture ramps up or down. Repeat, hold down button 2-3 times. If FLEX LED does not turn on, move on to next step.
- C.** Turn on controller and tap each of the following color buttons  or  or  or , If FLEX LED does not turn on, then hold down color wheel buttons to test if LED brightens/dims. Repeat 2-3 times for each. If FLEX LED does not turn on, move on to next step.
- D.** Turn on controller and scroll through center color wheel. If FLEX LED does not turn on, move on to next step.
- E.** Set groups on LinearDrive100D (See Step 4.2, page 4) to COLOR, then SHOW, then back to DMX. Repeat steps from Troubleshooting Step A. If FLEX LED does not turn on, move on to next step.
- F.** Check wiring (See Step 4, page 4), then check every setting following to match corresponding FLEX LED. Repeat steps from Troubleshoot Step A. If FLEX LED does not turn on, move on to next step.
- G.** Reset eldoLED® Linear100D to factory settings and start from Step 4 (see page 4). Repeat Troubleshooting DMX Controller.

## 6.



*eldoLED® Linear100D*

- 6.1 Reinstall strain relief pieces.
- 6.2 Reinstall faceplate cover.
- 6.3 Cover UL Listed Enclosure (by others).



# DMX SYSTEM INSTALLATION GUIDE

START HERE



## DMX CONTROLLER TROUBLESHOOTING

