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Installation Instructions for **TruLine 1.6A TruQuad**

ETL Intertek   TL1.6A-___

IMPORTANT INFORMATION

- This instruction shows a typical installation.
- This product is wall or ceiling mount.
- This product is ETL listed for indoor use.

SAVE THESE INSTRUCTIONS!

INSTALLATION VIDEO

Scan with your mobile device to watch a typical installation video or visit https://www.pureedgelighting.com/pure/pure-videos/truquad_1_6a_install/index.php

Pre-installation Guide

A   LAYOUT 1

1 Junction Box
2 Remote Power Supplies
2 Strips wrap around

LAYOUT 2

1 Junction Box
4 Remote Power Supplies
4 Strips going opposite direction

LAYOUT 3

2 Junction Boxes
8 Remote Power Supplies
8 Strips going all four directions

LAYOUT 4

4 Junction Boxes
16 Remote Power Supplies
**16 Strips going all four directions**

1: Depending on the size of the TruQuad, identify the design layout based on the 4 possibilities above.

NOTE: Parts are numbered in order of assembly (see Layout 1 for possible numbering).

Included Components
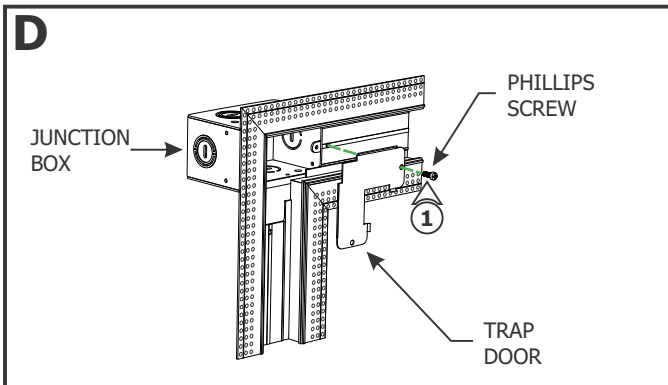
B
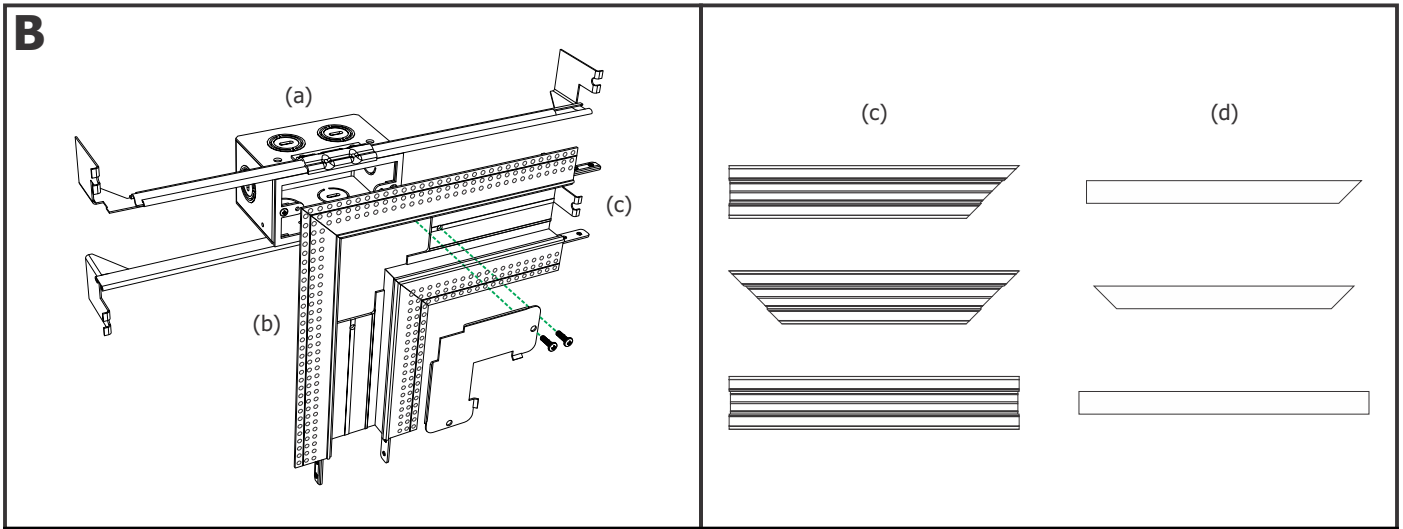
a) Junction Box
b) L-Picture Frame Power Channel Connector
c) Channels and Joining Brackets
d) Diffusers
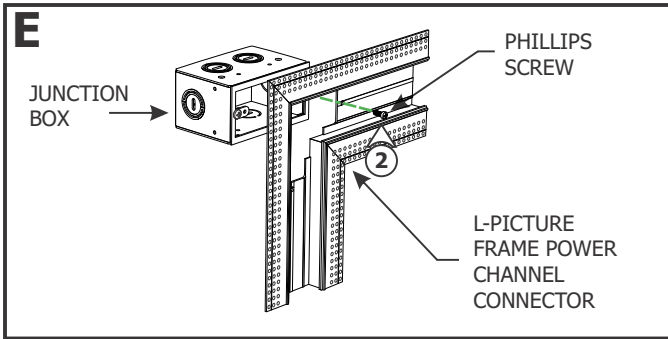**e)** Mounting Bar, Mounting Brackets and Mounting Screws (not shown)

C
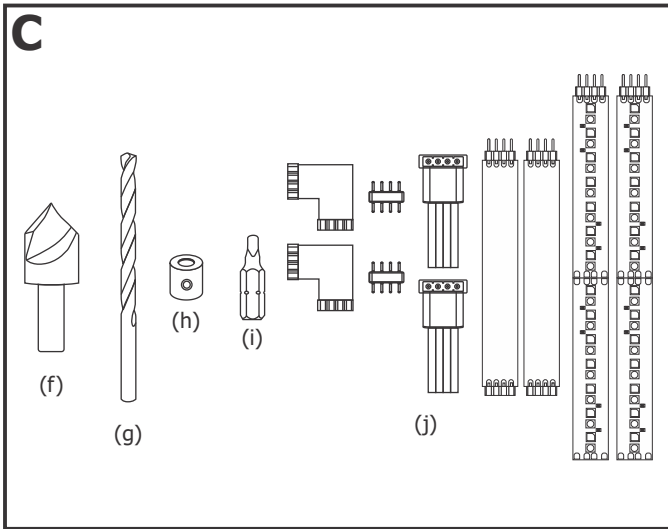
f) Countersink
g) Drill Bit
h) Drill Bit Stop Collars
i) Square-Recess Insert Bit
j) (2x) LED Soft Strips and Power Connectors

# Section One: Prepare and Install Junction Box and Power Connections

D

1: Remove the Phillips screw from the junction box to remove the trap door from the assembly.

E

JUNCTION BOX

PHILLIPS SCREW

2

L-PICTURE FRAME POWER CHANNEL CONNECTOR

2: Remove the Phillips screw from the junction box to remove the L-Picture Frame Power Channel Connector.

F

ADJUSTABLE MOUNTING BAR

3

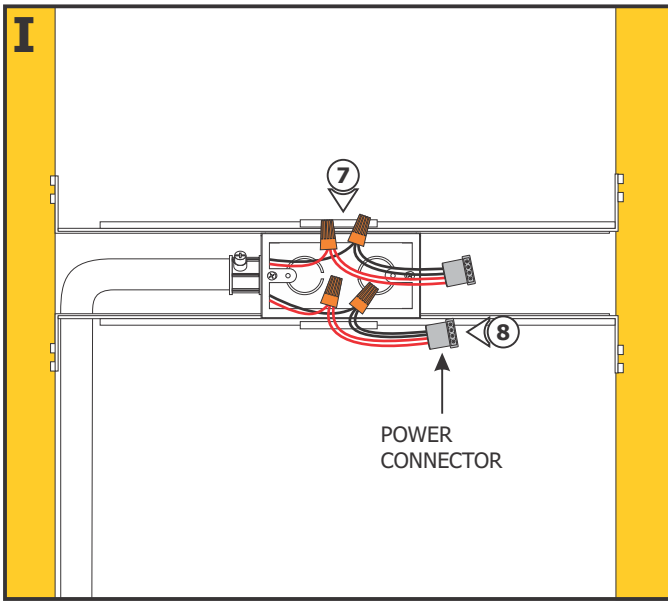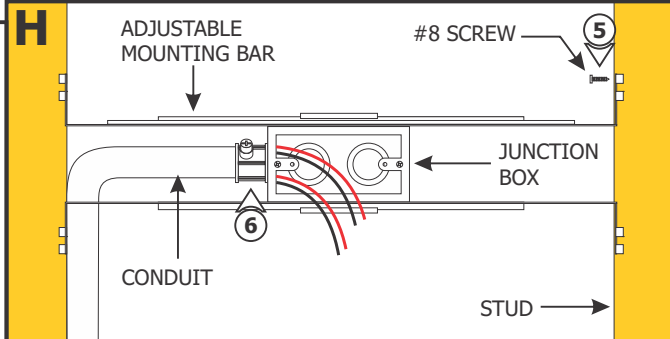JUNCTION BOX

PHILLIPS SCREW

MOUNTING BRACKET

3: Mount each adjustable mounting bar to one side of the junction box and secure them with the mounting brackets and two Phillips screws provided.

G

4
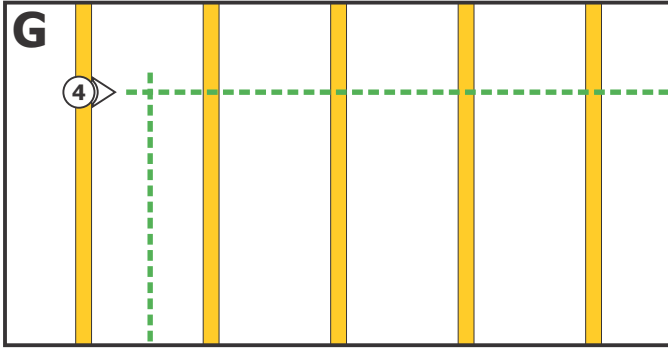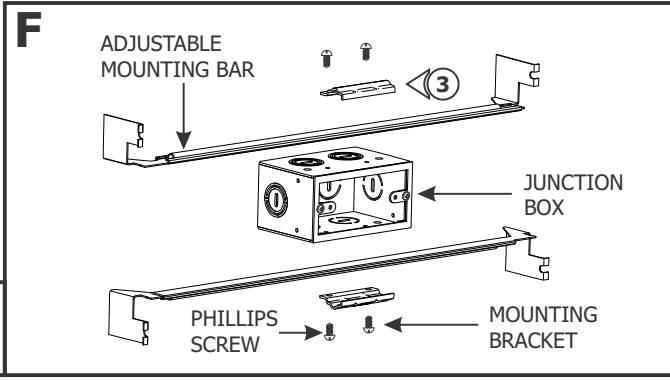
4: Measure and locate desired junction box mounting location. Determine the corner that the junction box will be installed to. Longer installation lengths may require two (opposing corners) or four (all corners) junction boxes.

NOTE: The adjustable mounting bars mount to studs that are spaced 13" to 24" apart.

5: Place the lips on the adjustable mounting bars against the studs. Secure the adjustable bars to the studs with the #8 screws.

6: Install power supply (reference installation instructions included with power supply) and conduit (if required by local electrical code) and run low-voltage power wires to the junction box.

H

ADJUSTABLE MOUNTING BAR

#8 SCREW

5

JUNCTION BOX

6

CONDUIT

STUD

I

7

POWER CONNECTOR

8

NOTE: If installation requires RGB, RGBW, or Tunable White, refer to wiring diagram on pages 11-13.

NOTE: Remote power supply wires must be present in junction box. Refer to instructions provided with power supply.

7: Connect the red low voltage wires to the red power connector wires with a wire nut. Connect the black low voltage wires to the black power connector wires with a wire nut.

8: Repeat step 7 for the other power connector and power supply

9: Place all wire nut connections inside the junction box.

CAUTION: Unroll the entire LED strip from the reel and use the power connector to power the strip making sure there is no outage before continuing with the installation. Afterwards, carefully roll the LED strip loosely back into the reel.
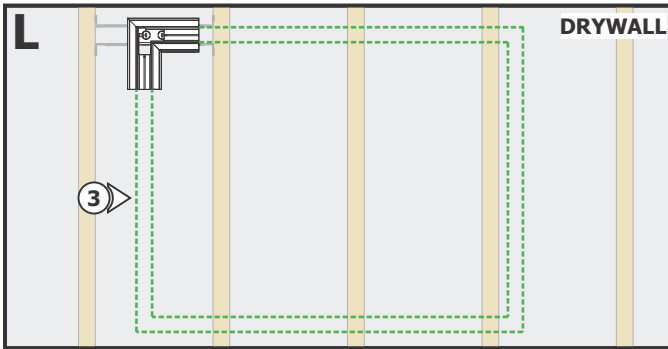
Section Two: Prepare Drywall and Install Channel

J

DRYWALL

6" FIXED JAB SAW

①
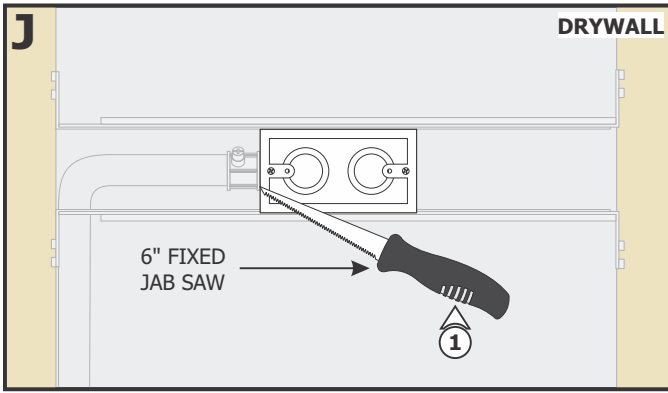
1: Cut a section of drywall using a 6" fixed jab saw or other appropriate tool to expose the mounting plate area. Install the drywall.

K

JUNCTION BOX

②

#4-40 SCREW

TRAP DOOR FRAME
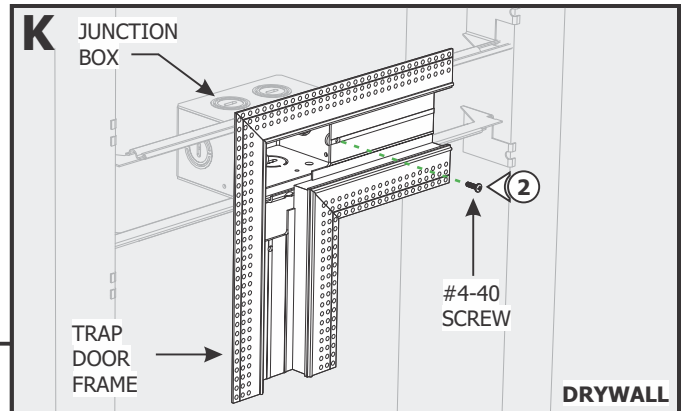
DRYWALL

**2:** Attach the assembled trap door frame to the junction box using a #4-40 screw.

L

DRYWALL

③

3: Mark the installation location on the drywall using a pencil or chalk line before cutting (minimum 2.25" wide).

M

④

⑤
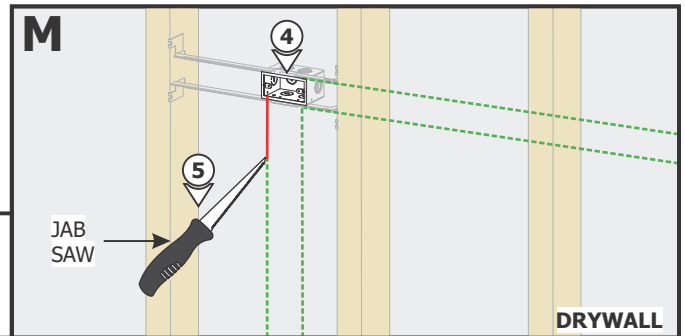
JAB SAW

DRYWALL

4: Remove the trap door frame before cutting.

5: Cut the drywall along the marked installation path using a jab saw or other appropriate tool.

N

DRYWALL

MOUNTING STRAP

⑦

DRYWALL SCREW

⑧   ⑧

DRYWALL

MOUNTING STRAP

⑥

SUPPORT BRACE

STUD

⑨
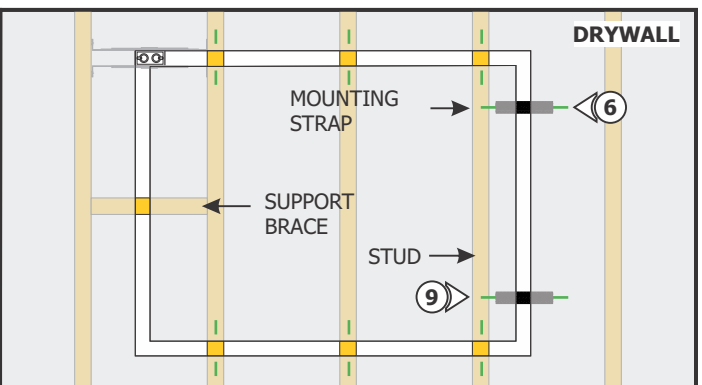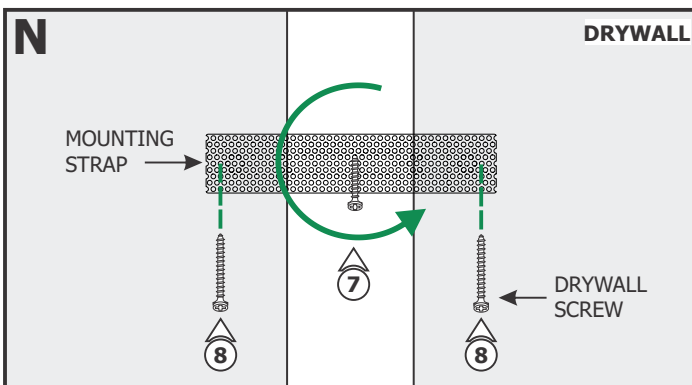
6: Install mounting straps behind the drywall where studs are not available (suggested spacing is every 32") by threading a drywall screw into the perforated material.

7: Place the mounting strap behind the cut drywall and rotate into place using the drywall screw as a handle.

8: Secure the mounting strap to the drywall using two drywall screws.

9: Mark the location of the studs and mounting straps on the drywall.

NOTE: For areas with lots of vibrations, it is suggested to install 2X4 support braces (suggested spacing is every 32") before installing and finishing drywall to avoid cracking of plaster.

O

JOINING BRACKET

⑩

M3 SET SCREW

L-PICTURE FRAME POWER CONNECTOR

⑪
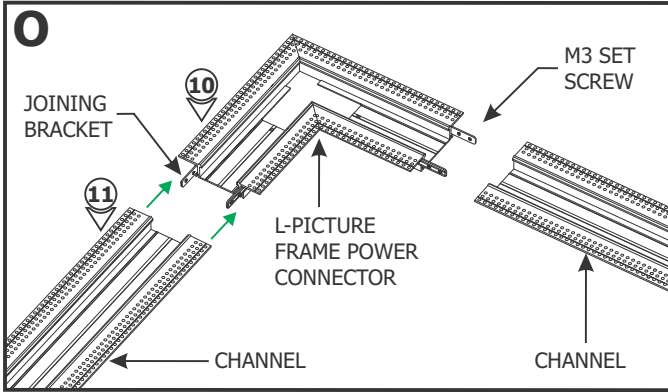
CHANNEL

CHANNEL

10: Insert joiner bars halfway into the Trap Door Frame. Tighten the M3 set screws on each joining bracket with a 1.5mm Allen wrench.

11: Slide the other section of channel onto the joining bracket and tighten the remaining M3 set screws with a 1.5mm Allen wrench.

P

CHANNEL

CHANNEL

90º JOINING BRACKET

⑬

⑫

12: Insert a 90° joiner bracket halfway into one mitered channel corner. Tighten the two M4 set screws on each joining bracket with a 2mm Allen wrench.

13: Slide the other section of mitered channel onto the 90° joining brackets and tighten the remaining M4 set screws with a 2mm Allen wrench.

Q

MARKED LOCATION

⑭

CHANNEL GROOVE

DRYWALL

CHANNEL

DRILL BIT

⑭

CHANNEL

COUNTER SINK

⑭
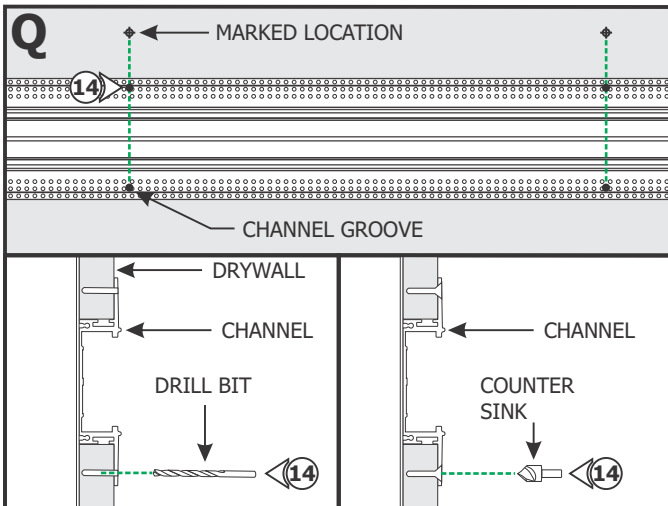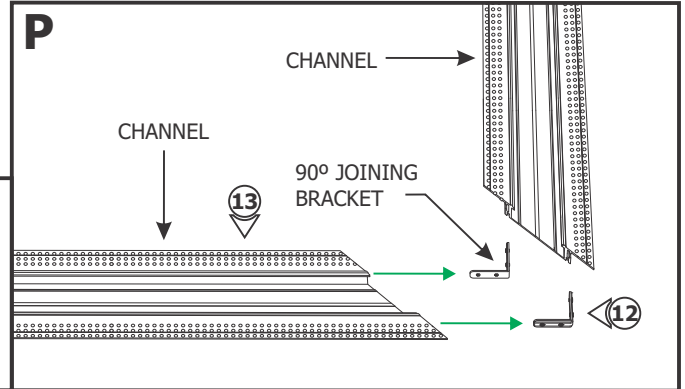
14: Place the assembled channel to the drywall cutout. Using the marked locations on the drywall, drill and countersink the channel using the provided square drill with counter sink bit.

R

TRAP DOOR FRAME

⑮

⑯

SCREW

SCREW

15: Secure the channel to the studs/mounting straps through the drywall with the #6 screws using the provided square recess bit.

16: Secure the trap door frame to the junction box with the supplied screw.

5

S

DRYWALL
TAPE

(17)
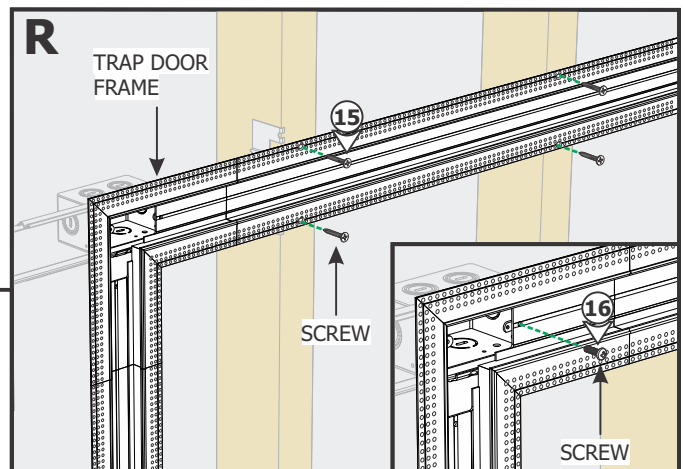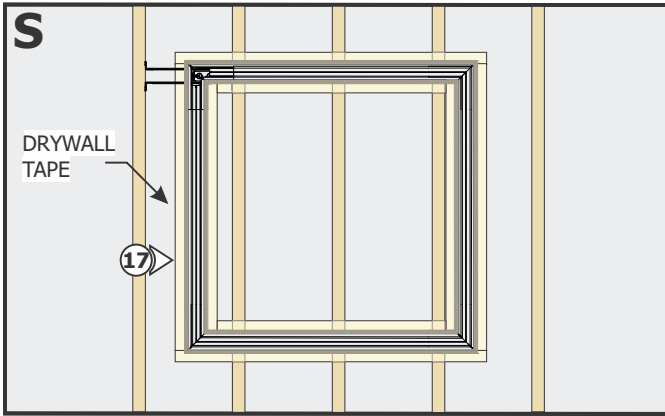
NOTE: For areas with lots of vibration, it is suggested to use Durabond to avoid cracking of plaster.

NOTE: Do Not use premixed joint compound "Soft Mud." No use compuesto para juntas premezclado "Soft Mud."

NOTE: Recommended plaster method: 1st Coat - Durabond 45 with 8" Blade, 2nd Coat - Easy Sand 45 with 10" Blade, 3rd Coat - with 12" Blade

17: Must apply drywall tape (Ultra-Thin drywall tape suggested) along edges of channel up to the groove to prevent cracking of plaster after installation. **DO NOT** overlap strips of drywall tape.

18: Mask the interior surfaces of the channel using blue contractor's tape before plastering and painting.

19: Use a compound knife for a smooth compound spread. Sand, paint, and finish the plaster and drywall before removing the blue contractor's tape.

20: Carefully use a flathead screwdriver to remove excess drywall from the internal bevel/edge.

T

(18)

CONTRACTOR'S
TAPE

(19)

COMPOUND
KNIFE
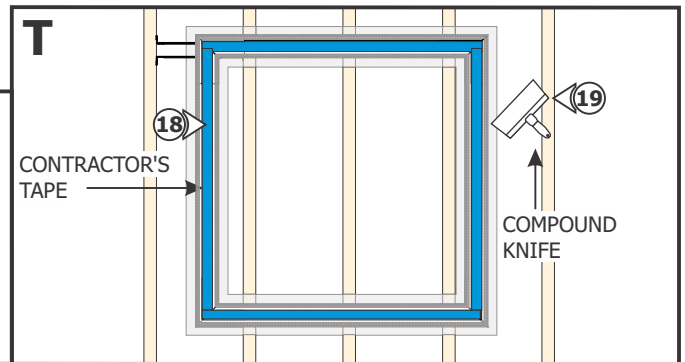
Section Three: Installing LED Soft Strip

U

(1)
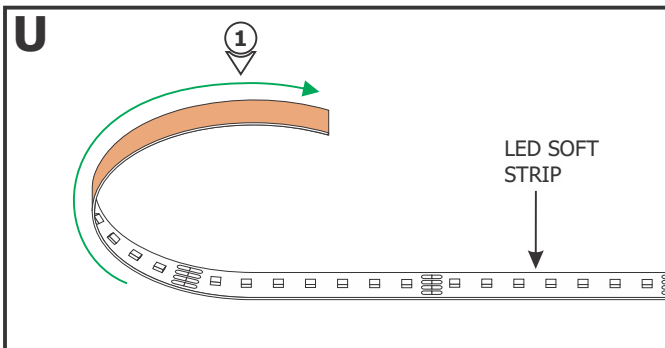
LED SOFT
STRIP

1: Gently uncoil the LED Soft Strip before applying to the channel otherwise the strip may lift off of the surface.

V

POWER TAPE

POWER
ADAPTER

(3)

(3)

L-SHAPED
FLEXIBLE
CONNECTOR

NOTE: Omit step 2 for RGBW Configurations. Blank Soft Strip Power Tape is not used.

2: Connect the Blank Soft Strip Power Tape to the power connector.

3: Insert the Power Adapter and then connect the L-Shaped Flexible Power Connector to the Power Adapter.

4: Place the power connector and Power Tape inside the junction box.

(3)

RGBW

W

L-SHAPED
FLEXIBLE
CONNECTOR

⑤
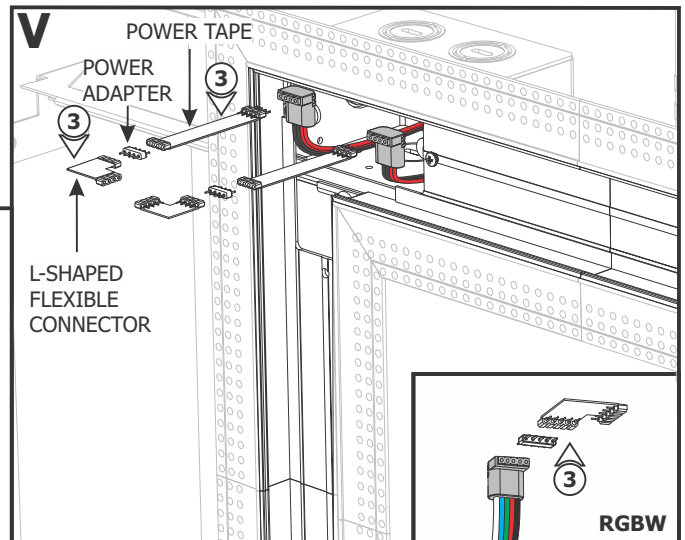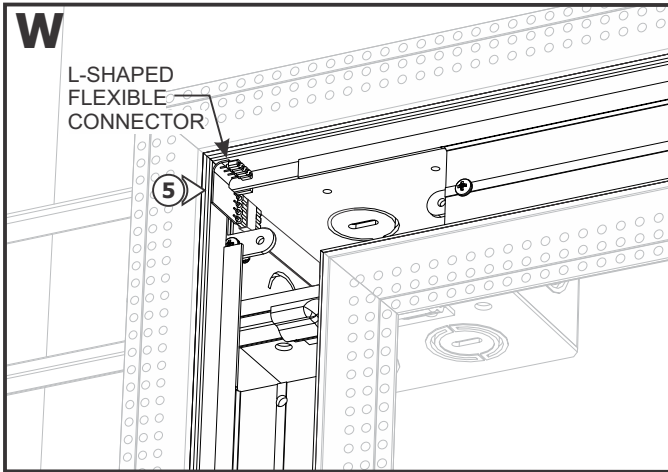
5: Place the assembled outer corner power connection into the channel where the LED Soft Strip will be installed.

X
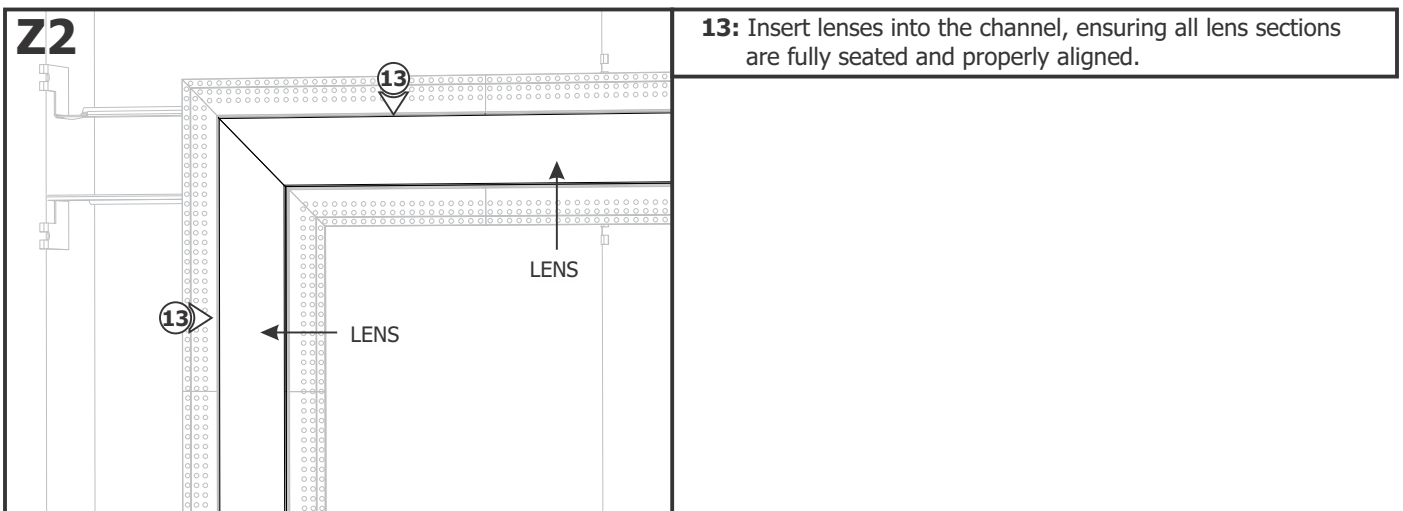
TRAP DOOR

⑦

⑥

L-SHAPED
FLEXIBLE
CONNECTOR

#4-40
SCREW

6: Place the assembled inner corner power connection into the channel where the LED Soft Strip will be installed.

7: Replace the trap door and secure using the #4-40 screw.

8: If necessary (depending on design), repeat step 1 through 7 for the other corners.

Y

PAPER BACKING

⑨

⑩

LED SOFT STRIP

⑨

LED SOFT STRIP

⑩

L-SHAPED
FLEXIBLE
CONNECTOR

PAPER BACKING
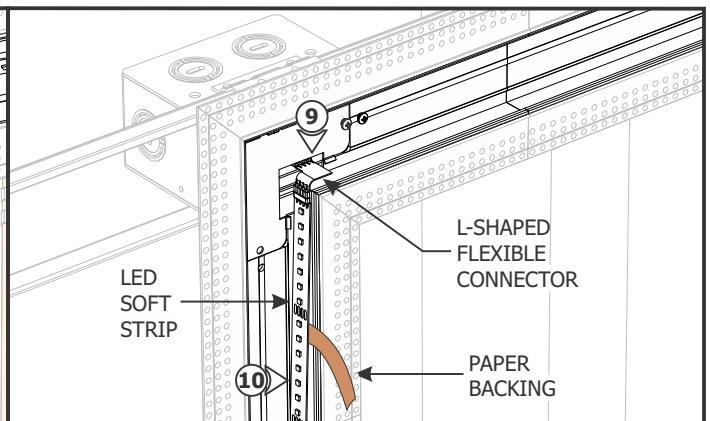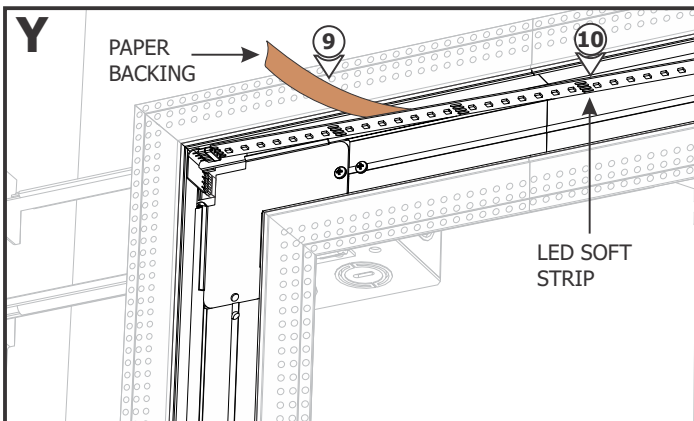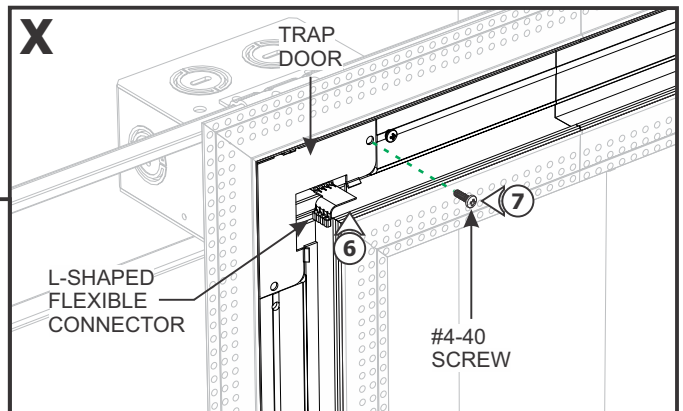
NOTE: If installation requires RGB, RGB+W, or Tunable White, refer to wiring diagrams on pages 11-13.

9: Carefully remove the backing from the LED Soft Strips, making sure not to remove the tape. Line up the red wire side of the power connector with the "+24VDC" marking on each LED Soft Strip. Push the male connector of the LED Soft Strips into the L-Shaped Flexible Power Connectors.

10: Firmly press down the adhesive portion of the LED Soft Strips onto the channel surface while removing the rest of the backing, making sure there are no air bubbles that can cause surface irregularities.

Z

LED SOFT
STRIP
BENT 90°
ON SIDES
OF CHANNEL

LED SOFTSTRIP
BENT 90°
ON SIDES
OF CHANNEL

11

11

**OUTSIDE
CORNER**

**INSIDE
CORNER**

11: Continue applying LED Soft Strips on the sides of the channel. Carefully bend the LED Soft Strips 90º to match the channel corners.

Z1

12

EXCESS
LED
SOFT
STRIP

12

EXCESS
LED SOFT
STRIP

12: Trim excess LED strip ONLY at dashed cutting lines. Overlap excess LED Soft Strip at power connection to avoid dark spots in the installation. Repeat for additional LED Soft Strip sections.

Z2

13

13

LENS

LENS

**13:** Insert lenses into the channel, ensuring all lens sections are fully seated and properly aligned.

Section Four: Installing the LED Soft Strip with Multiple Feeds

Z3

POWER ADAPTER

POWER TAPE

L-SHAPED FLEXIBLE CONNECTOR
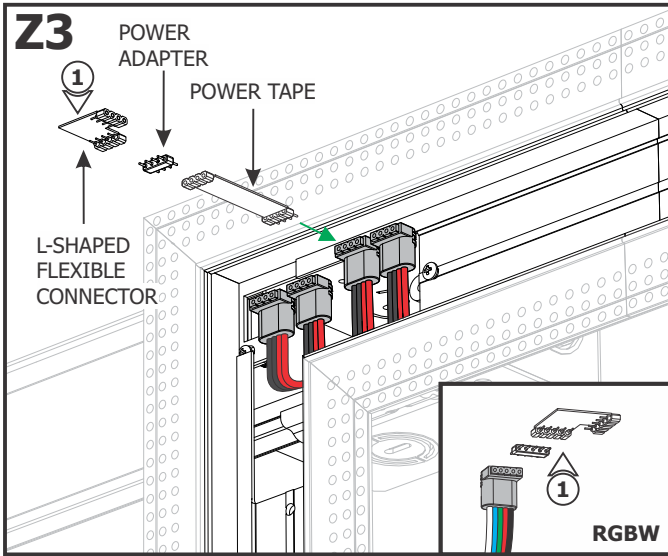
RGBW

1: Refer to steps 1 through 4 in Section Three to uncoil the LED Soft Strip and connect each power connector to the Blank Power Tape (not used with RGBW), Power Adapter and L-Shaped Flexible Connector.

Z4

L-SHAPED FLEXIBLE CONNECTORS

#4-40 SCREW

TRAP DOOR

OUTSIDE CORNER

#4-40 SCREW

TRAP DOOR

L-SHAPED FLEXIBLE CONNECTORS

INSIDE CORNER
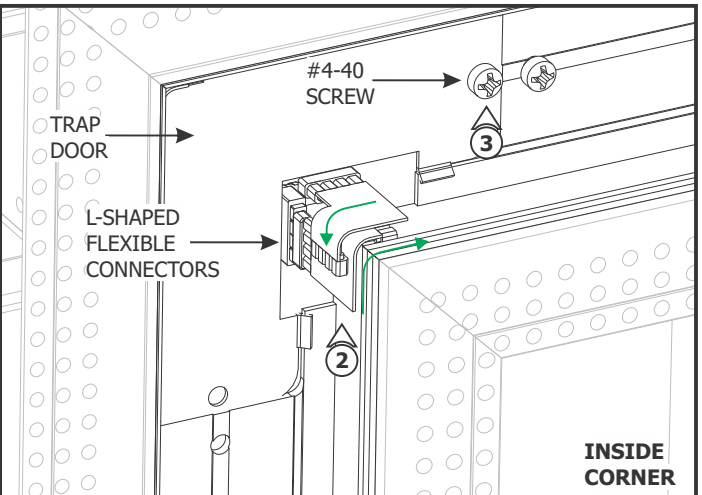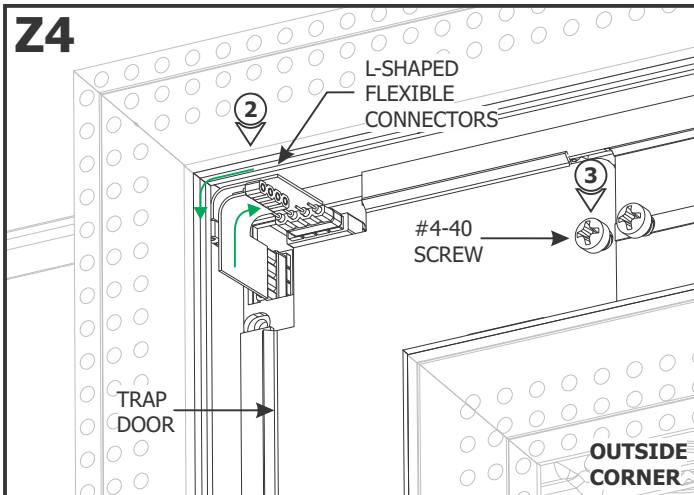
2: Place the assembled power connectors into the channel where the LED Soft Strips will be installed. L-Shaped Flexible Connectors should be overlapped as shown.

3: Replace the trap door and secure using the #4-40 screw.

Z5

LED SOFT STRIP

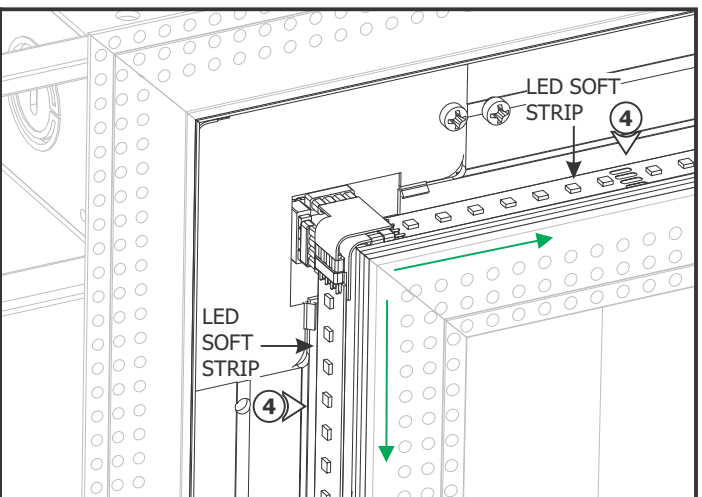LED SOFT STRIP

LED SOFT STRIP
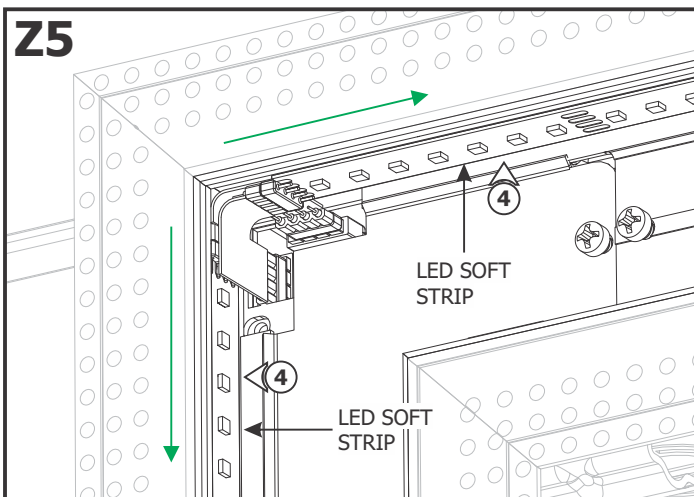
LED SOFT STRIP

4: Repeat steps 9 through 12 in Section Three to install the LED Soft Strips.

5: Insert the lenses into the channel, ensuring all lenses are fully seated and properly aligned.

IMPORTANT INFORMATION REGARDING INSTALLATION AND REWORK OF SOFT STRIP LED
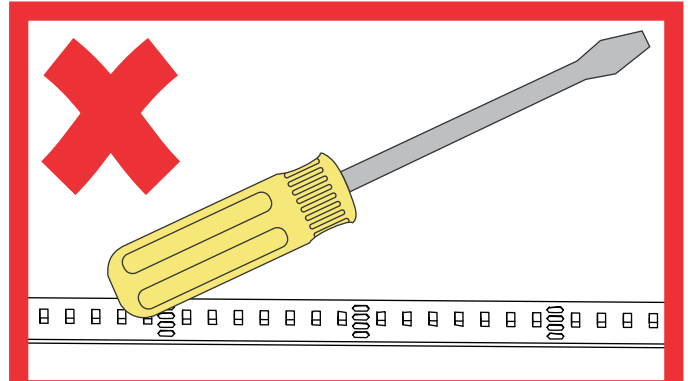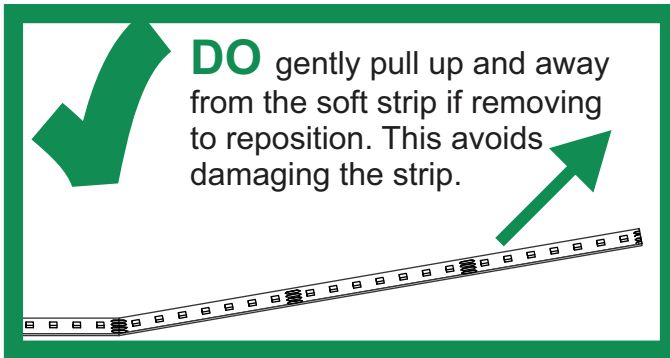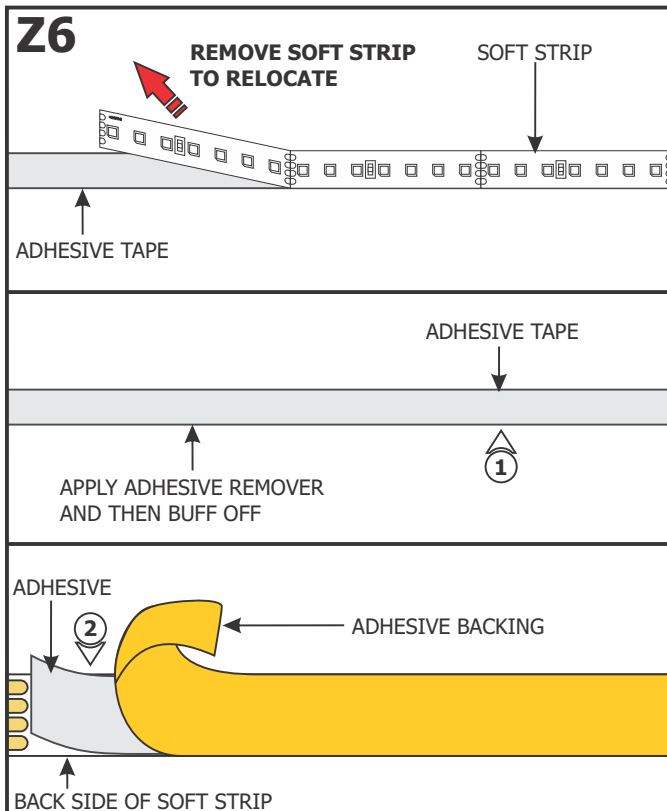
DO gently pull up and away from the soft strip if removing to reposition. This avoids damaging the strip.

DO NOT pull the strip back towards itself. Doing so risks damaging the strip and making it not function.
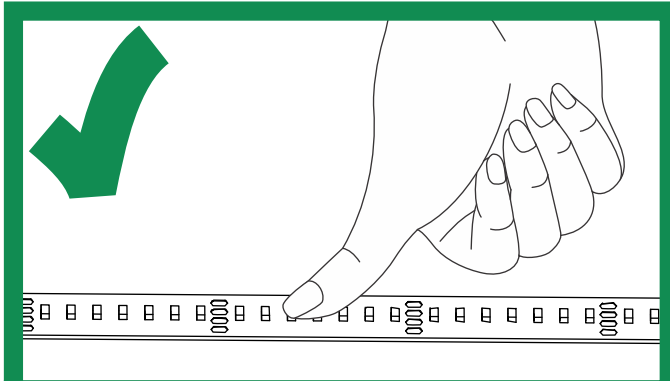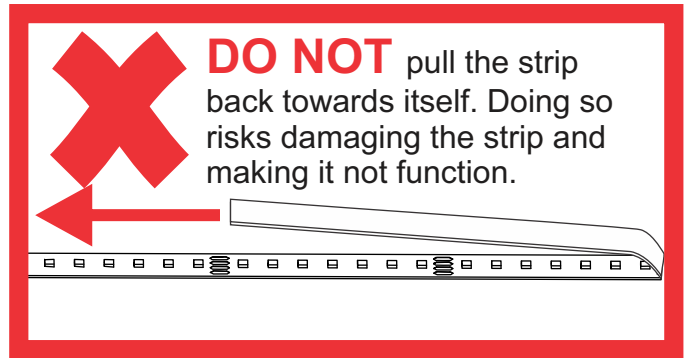
DO only ever use fingers to gently install soft strip to a surface AFTER cleaning the surface with alcohol.

DO NOT use any tool to install soft strip to a surface. This will damage the soft strip component.

Relocating Soft Strip (Optional)

Z6

REMOVE SOFT STRIP TO RELOCATE

SOFT STRIP

ADHESIVE TAPE

ADHESIVE TAPE

①

APPLY ADHESIVE REMOVER AND THEN BUFF OFF

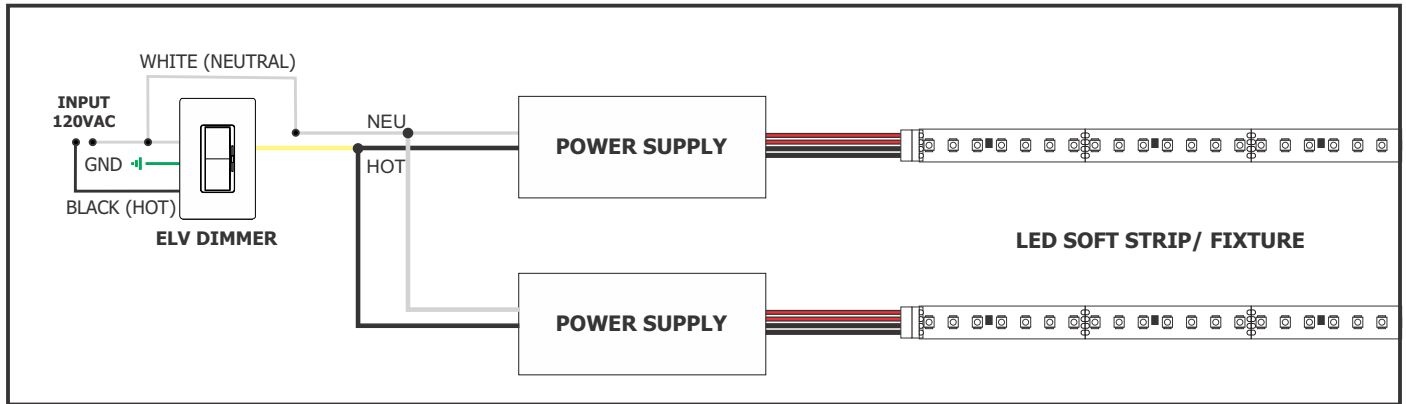ADHESIVE

②

ADHESIVE BACKING

BACK SIDE OF SOFT STRIP

NOTE: If relocating the installed soft strip, make sure that the adhesive tape on back of the soft strip covers the entire strip. The adhesive tape isolates the strip from the installation surface. Damaged or inconsistent adhesive tape may cause the contacts on the back of the strip to come in contact with the conductive heat sink which will cause the strip to short and burn. Call Edge Lighting to get replacement adhesive tape and/or optional aluminum heat sink tape (SS-HR-F)

1: To remove tape residue from back of the strip, apply WD-40, Goo Gone, or a mixture of warm water and lemon oil to the corner of a clean, dry towel. Gently buff the area containing the adhesive residue until it is completely removed.

2: Gently remove a few inches from one side of the tape backing. Attach the adhesive tape to the back of the soft strip and apply moderate pressure to affix the tape. Continue this step a few inches at the time until the entire adhesive tape is attached to back of the soft strip.

3: Refer to the steps in Section 3 or Section 4 to reinstall the soft strip.

Wiring Diagrams

General 24VDC Configuration

INPUT 120VAC

WHITE (NEUTRAL)

GND

BLACK (HOT)

ELV DIMMER

NEU

HOT

POWER SUPPLY

POWER SUPPLY

LED SOFT STRIP/ FIXTURE
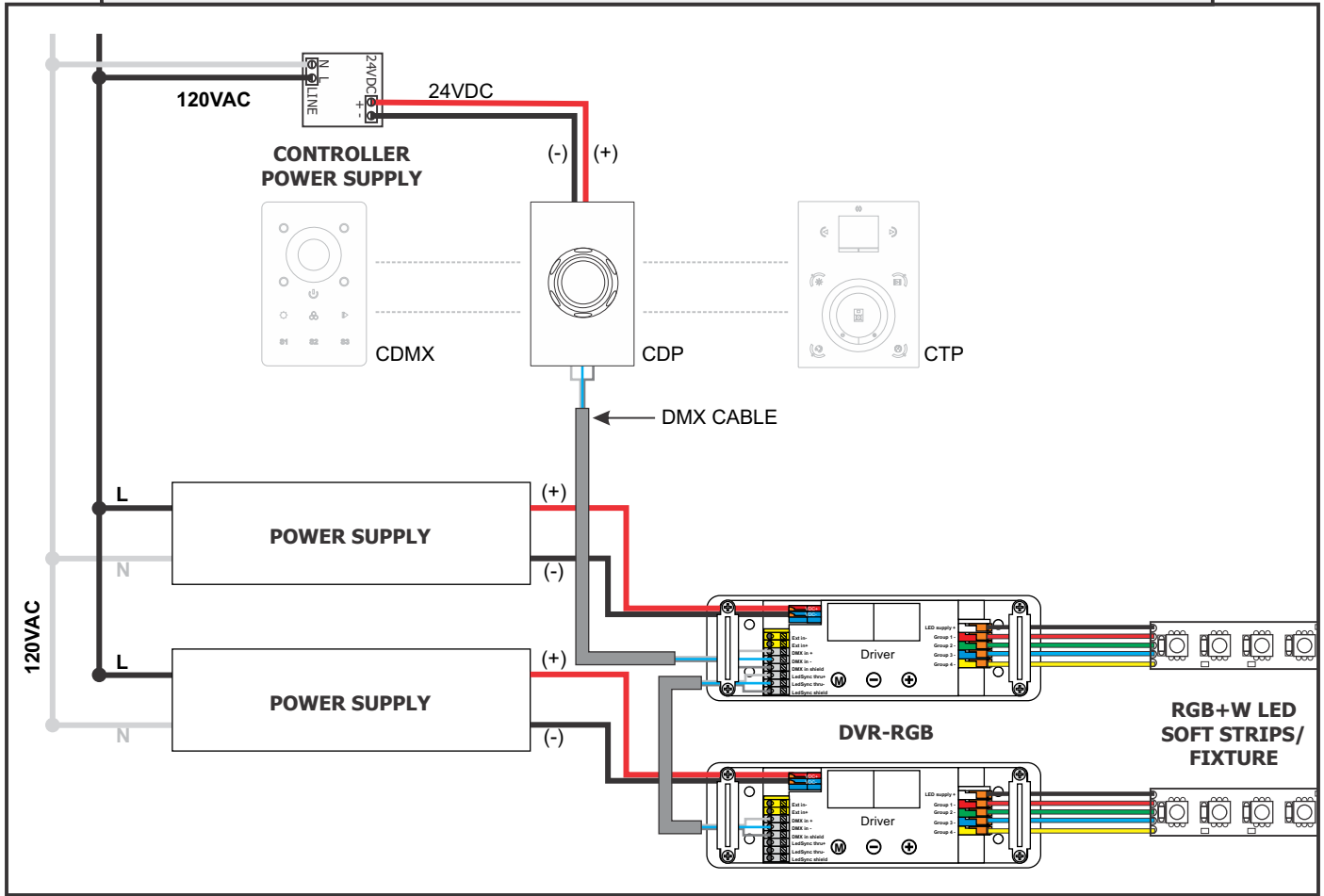
Standard RGB Configuration

Using LED Power Supply with RGB Soft Strip & CDP, CTP, or CDMX Control

CONTROLLER POWER SUPPLY

120VAC

24VDC

(-) (+)

CDMX

CDP

CTP

DMX CABLE

L

POWER SUPPLY

(+)

(-)

N

L

POWER SUPPLY

(+)

(-)

N

120VAC

Driver

Driver

DVR-RGB

RGB LED SOFT STRIPS/ FIXTURE

RGB+W Configuration

120VAC

24VDC

CONTROLLER POWER SUPPLY

(-) (+)

CDMX

CDP

CTP

DMX CABLE

L

N

POWER SUPPLY

(+)

(-)

120VAC

L

N

POWER SUPPLY

(+)

(-)

Driver

LED supply +
Group 1 -
Group 2 -
Group 3 -
Group 4 -

Ext in-
Ext in+
DMX in +
DMX in -
DMX in shield
LedSync thru+
LedSync thru-
LedSync shield

DVR-RGB

RGB+W LED SOFT STRIPS/ FIXTURE

Driver

Tunable White Configuration

ELV DIMMER

WHITE (NEUTRAL)

INPUT 120VAC

GND

BLACK (HOT)

HOT

POWER SUPPLY

+24VDC RED

-24VDC BLACK

TUNABLE WHITE SOFT STRIP/ FIXTURE

WHITE (NEUTRAL)

INPUT 120VAC

GND

BLACK (HOT)

ELV DIMMER

HOT

POWER SUPPLY

+24VDC RED

-24VDC BLACK

Tunable White Configuration

Power Supply with DMX Driver

If using a CDP Color Dial, configure your CDP to Warm White mode using DIP switches and follow CDP operating instructions:

120VAC

24VDC

(-) (+)

CDMX

CDP

CTP

DMX CABLE

L
N

POWER SUPPLY (+) (-)

120VAC

L
N

POWER SUPPLY (+) (-)

**TUNABLE WHITE
SOFT STRIP/FIXTURE**