PURE EDGE
LIGHTING
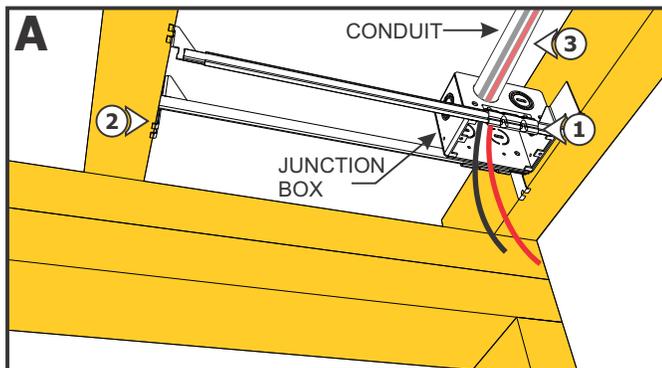
Installation Instructions for **Verge Ceiling 24VDC**

IMPORTANT INFORMATION
- This product is ceiling mount only.
- This instruction shows a typical installation.
- This product is ETL listed for indoor use.

SAVE THESE INSTRUCTIONS!

c ETL us
LISTED
Intertek

Section One: Install the Junction Box and Channel
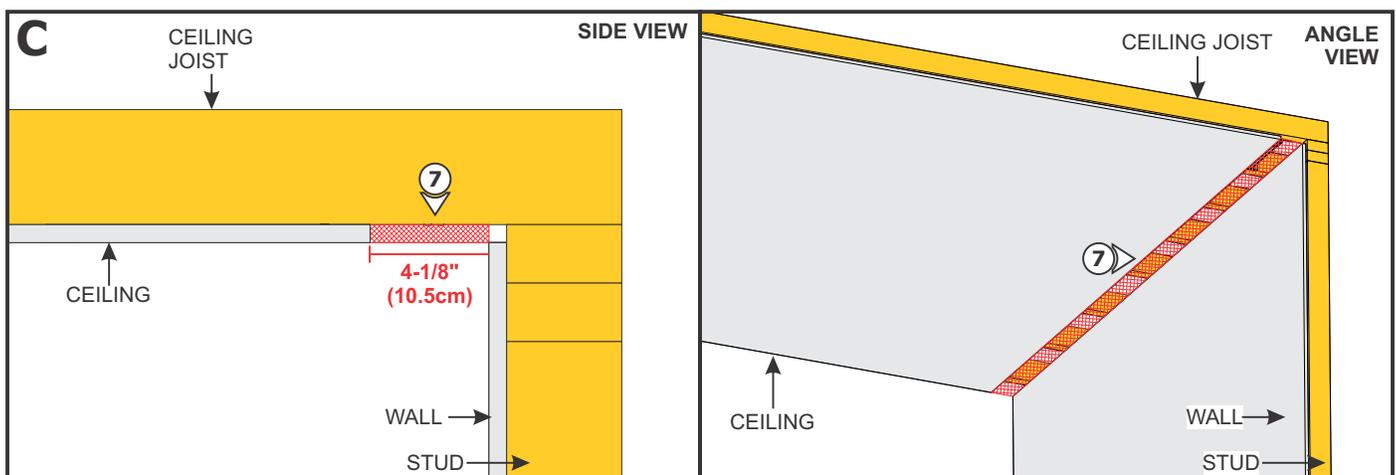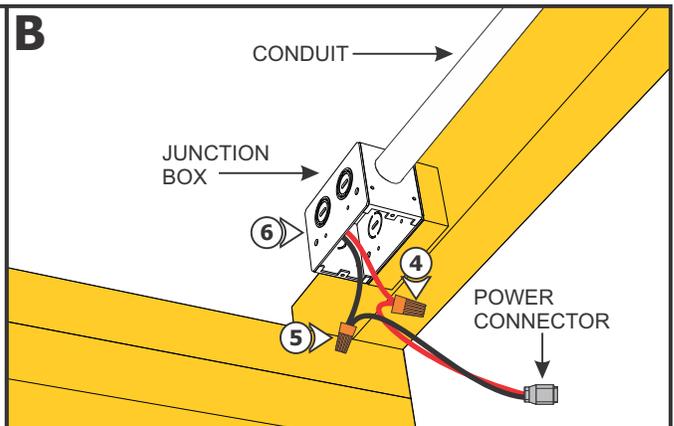
A

CONDUIT
③
②
①
JUNCTION BOX

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

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

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

3: Install conduit(s) (if required by local electrical code) and run low-voltage power wires to the junction box.

ALTERNATE MOUNTING METHOD: Secure the junction box using a cross brace support to the drywall or adjacent studs.

4: Connect the red +24VDC wire to the red power connector wire using a wire nut.

5: Connect the black -24VDC wire to the black power connector wire using a wire nut.

6: Place wire connections in 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.

B

CONDUIT
JUNCTION BOX
⑥
④
⑤
POWER CONNECTOR

C

CEILING JOIST
⑦
CEILING
4-1/8" (10.5cm)
WALL
STUD

SIDE VIEW

CEILING JOIST
⑦
CEILING
WALL
STUD

ANGLE VIEW

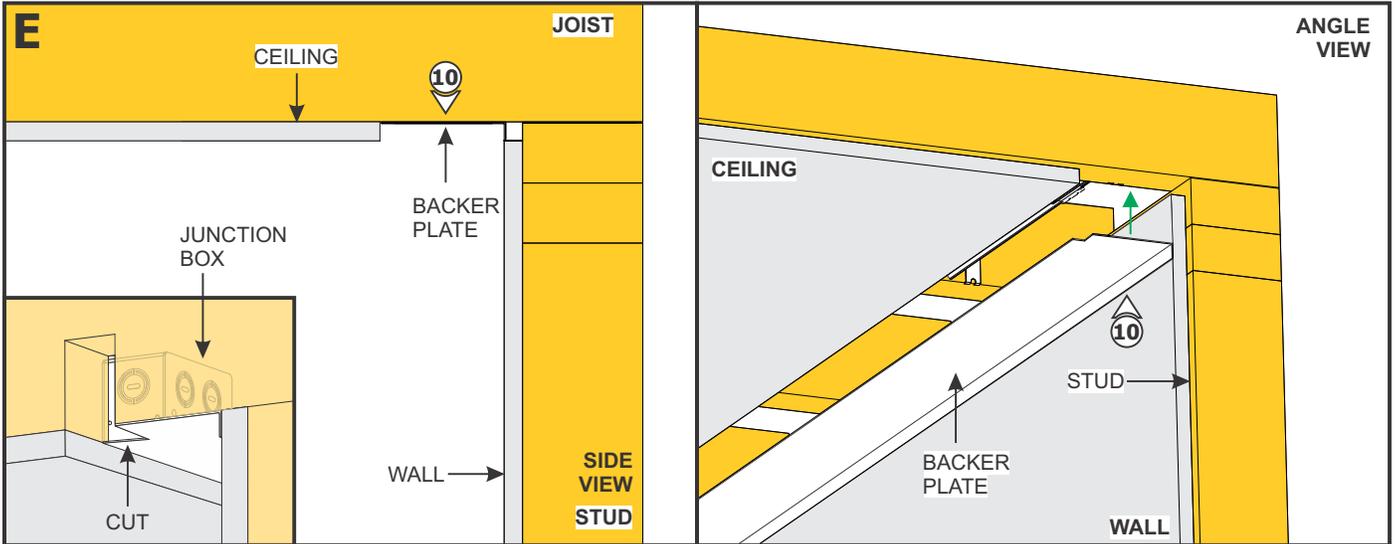**7:** Using a jab saw or other appropriate tool, remove 4-1/8" (10.5cm) of the ceiling where the fixture will be installed.

D

8 ▷ INSTALLATION LENGTH
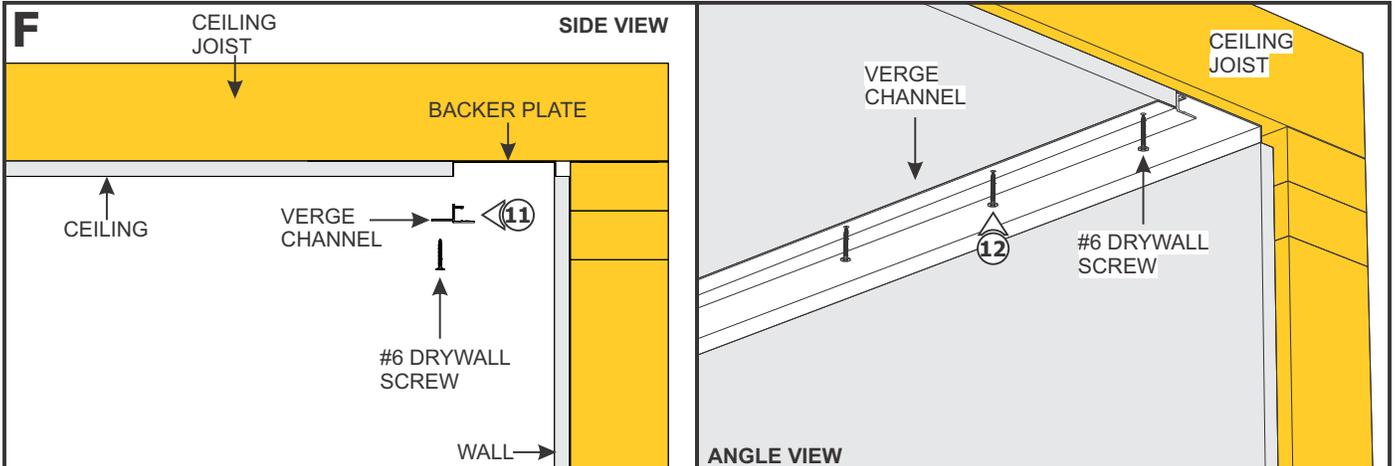
VERGE CHANNEL WITH LENS

9 ▷

9 ▷
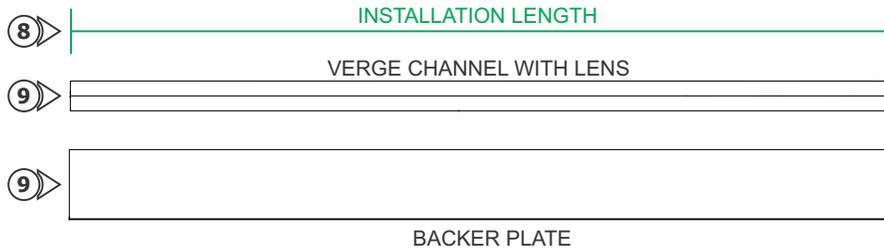
BACKER PLATE

8: Measure the installation length.

9: Cut the backer plate, Verge channel, and lens to length to match the installation area.

E

JOIST

CEILING

10

BACKER PLATE

JUNCTION BOX

WALL

CUT

SIDE VIEW

STUD

ANGLE VIEW
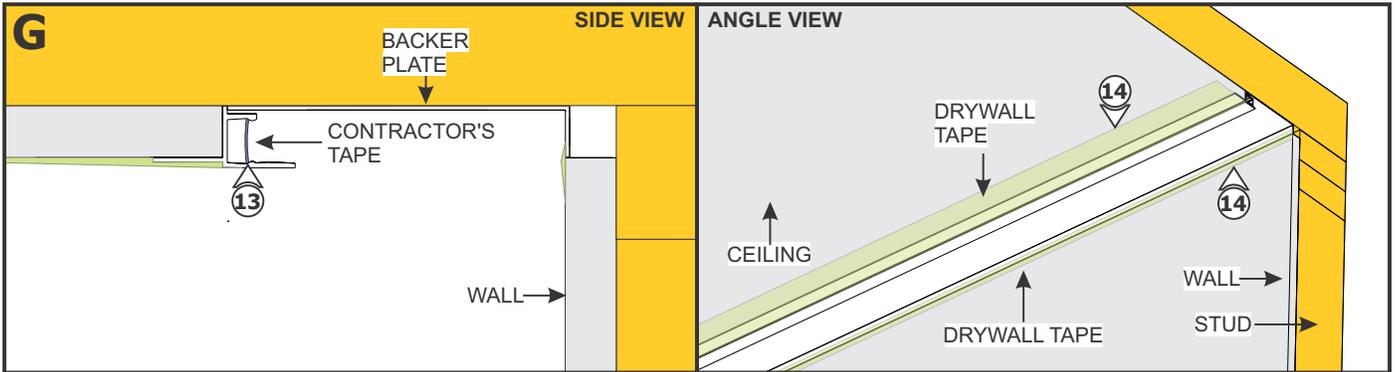
CEILING

10

STUD

BACKER PLATE

WALL

!CAUTION!: It may be necessary to remove material from ceiling joists, backer plate, Verge channel, or lens to route power to the installation. Consult installation design when considering routing power (see inset.)

10: Attach the backer plate to the ceiling joists using construction adhesive. Ensure that the short bent edge of the backer plate is aligned with the wall.

F

CEILING JOIST

SIDE VIEW

BACKER PLATE

CEILING

VERGE CHANNEL

11

#6 DRYWALL SCREW

WALL

VERGE CHANNEL

CEILING JOIST

12

#6 DRYWALL SCREW

ANGLE VIEW

11: Align the Verge channel with the installed backer plate.

12: Drill and countersink the channel. Attach the channel to the ceiling joists using #6 drywall screws.

G

SIDE VIEW

BACKER PLATE

CONTRACTOR'S TAPE

⑬

WALL→

ANGLE VIEW

DRYWALL TAPE

⑭

CEILING

DRYWALL TAPE

WALL→

STUD→

⑭

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."

13: Cover up the opening section of the Verge with blue contractor's tape to prevent plaster and dust entering inside the channel.

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

15: Plaster, sand, and paint the Verge channel and backer plate.
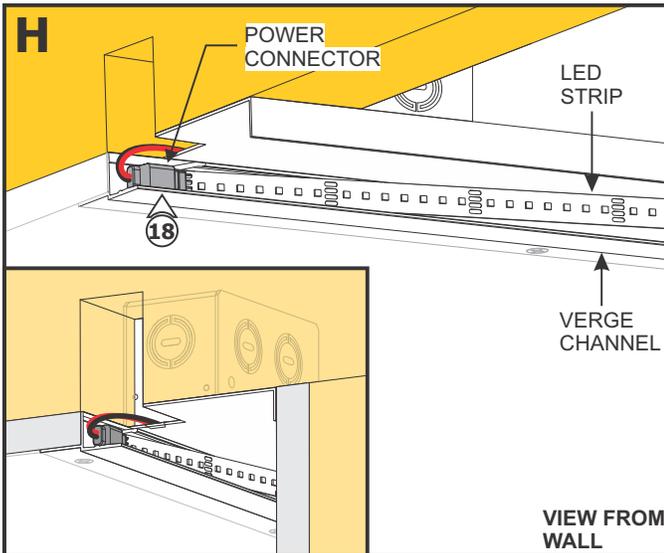
H

POWER CONNECTOR

LED STRIP

⑱

VERGE CHANNEL

VIEW FROM WALL

!CAUTION!: It may be necessary to remove material from ceiling joists, backer plate, Verge channel, or lens to route power to the installation. Consult installation design when considering routing power (see inset.)
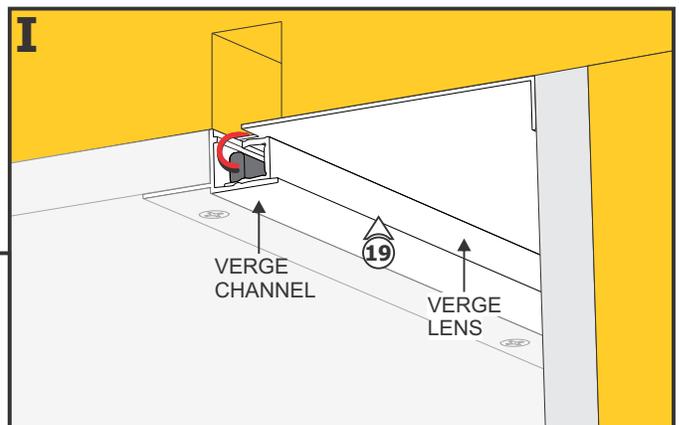
16: Clean the inner channel surface with alcohol to remove any dust or debris before continuing.

17: Carefully remove the backing from the LED soft strip, making sure not to remove the adhesive.

18: Align the red wire side of the power connector with the "+24VDC" marking on the soft strip. Push the male connector of the soft strip into the female power connector. Test the soft strip prior to installing in channel.
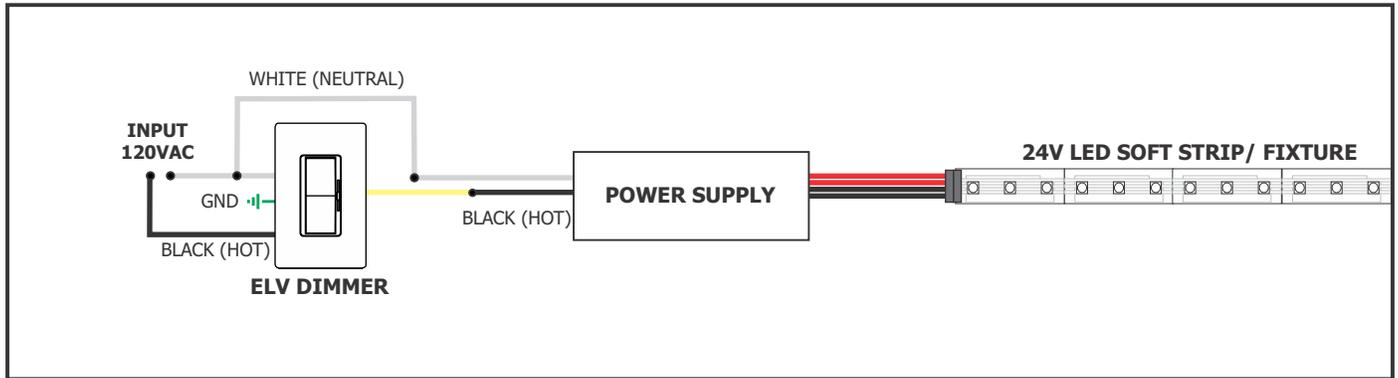

I

VERGE CHANNEL

⑲

VERGE LENS

NOTE: If installation requires RGB, RGB+W, or Tunable White, refer to wiring diagrams on pages 4 through 6.

19: Snap the cut lens sections into the channel. Ensure all sections of channel are fully seated, especially where the lens sections meet in the corner of the installation.
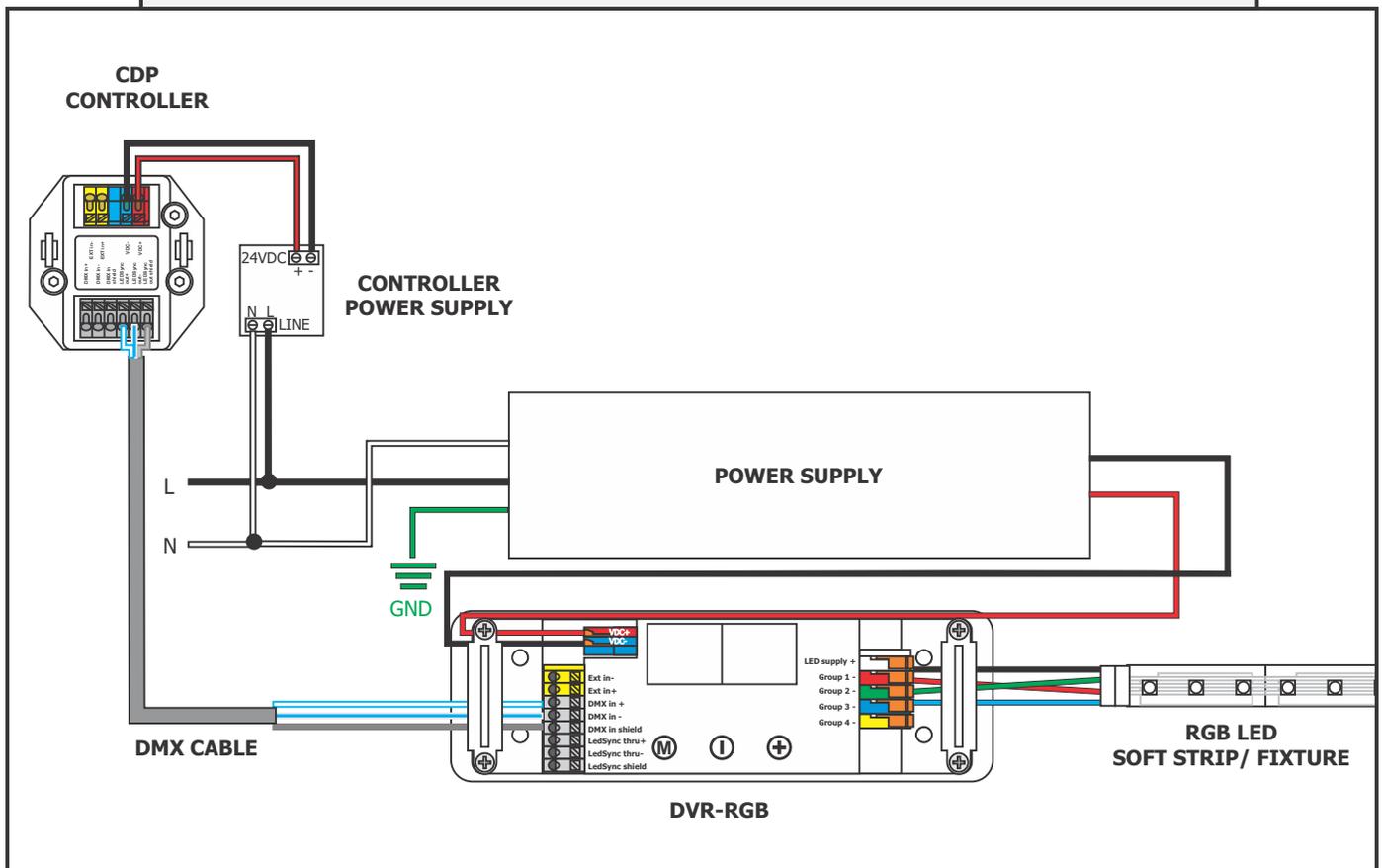
Wiring Diagrams

General 24VDC Configuration

WHITE (NEUTRAL)

INPUT
120VAC

GND

BLACK (HOT)

ELV DIMMER

BLACK (HOT)

POWER SUPPLY

24V LED SOFT STRIP/ FIXTURE

Standard RGB Configuration

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

CDP
CONTROLLER

24VDC
+ -

CONTROLLER
POWER SUPPLY

N L
LINE

L

N

GND

POWER SUPPLY

DMX CABLE

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

VDC+
VDC-

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

RGB LED
SOFT STRIP/ FIXTURE

DVR-RGB

RGB+W Configuration

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

CDP
CONTROLLER

24VDC
+ -

CONTROLLER
POWER SUPPLY

N L
LINE

L

N

GND

POWER SUPPLY

VDC+
VDC+

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

DMX CABLE

M I +

DVR-RGB

RGB+W LED
SOFT STRIP/ FIXTURE

Tunable White Configuration

Dual Power Supplies Controlled Via Individual ELV Dimmers

ELV DIMMER
WHITE (NEUTRAL)

INPUT
120VAC

GND

BLACK (HOT)

HOT

POWER SUPPLY

**+24VDC
RED**

**-24VDC
BLACK**

WHITE (NEUTRAL)

INPUT
120VAC

GND

BLACK (HOT)

ELV DIMMER

HOT

POWER SUPPLY

**+24VDC
RED**

**-24VDC
BLACK**

TUNABLE WHITE LED
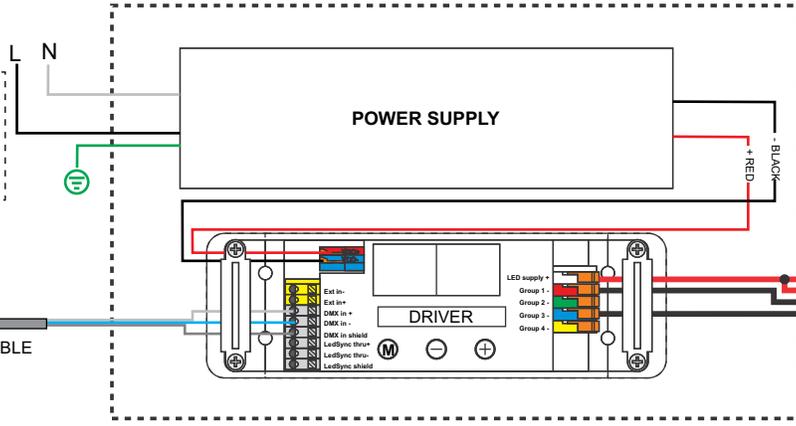SOFT STRIP/ FIXTURE

Tunable White Configuration

RGB Power Supply with DMX Driver

CDP/CTP or other DMX Signal From Any Compatible Controller

L   N

LED SYNC OUT +
LED SYNC OUT -
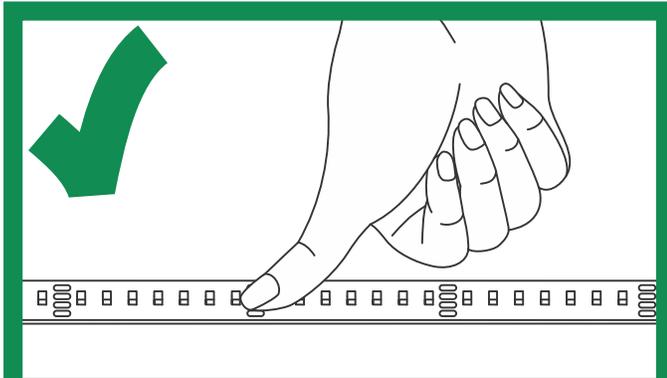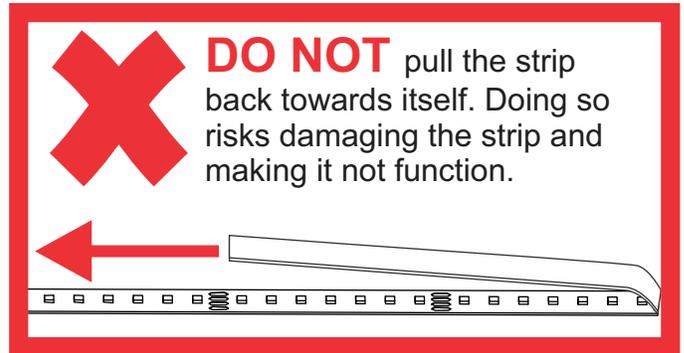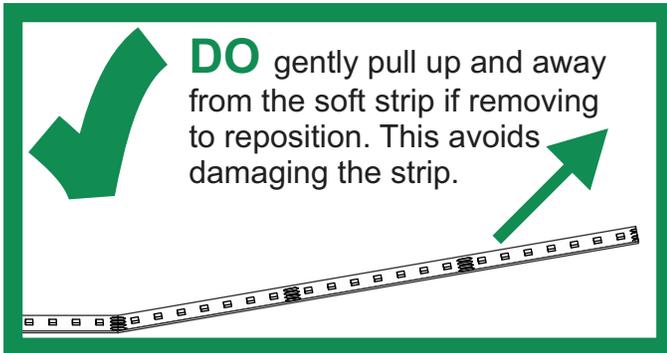LED SYNC OUT SHIELD

POWER SUPPLY

- BLACK
+ RED

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

O N
1 2 3 4 5 6 7

DMX CABLE

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

DRIVER

M   ⊖   ⊕

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

+
+
-

TUNABLE WHITE LED SOFT STRIP/ FIXTURE

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.
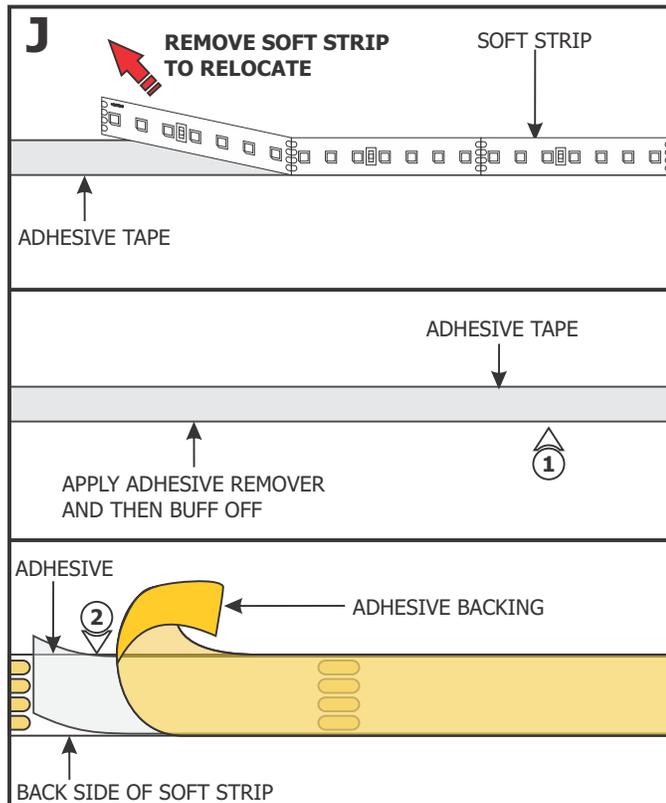
DO only ever use fingers to gently install soft strip to a surface **AFTER** cleaning the surface with alcohol.
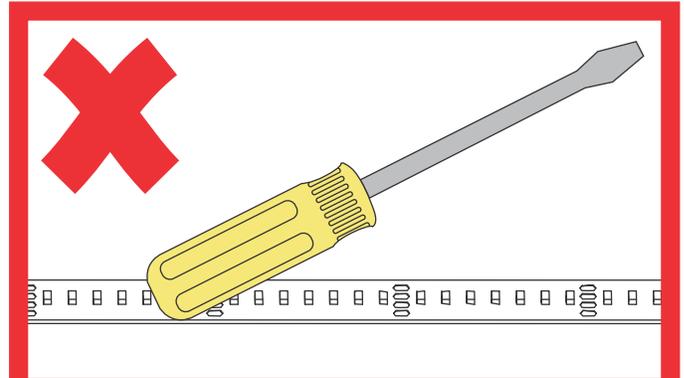
DO NOT use any tool to install soft strip to a surface. This will damage the soft strip component.

Relocating Soft Strip (Optional)

J

REMOVE SOFT STRIP TO RELOCATE

SOFT STRIP

ADHESIVE TAPE

ADHESIVE TAPE

APPLY ADHESIVE REMOVER AND THEN BUFF OFF

①

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 16 through 18 to reinstall the soft strip.