Round or Square 4" Type IC Adjustable Housing with LED Lamp
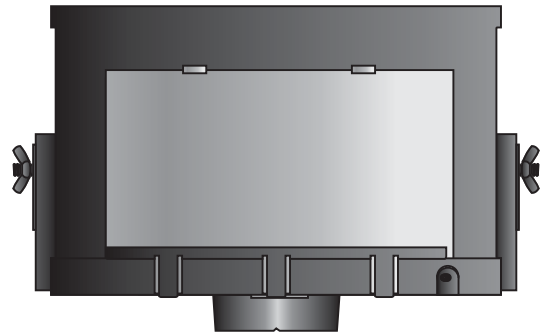
E4_-L_AI   1.5

ELEMENT
by Tech Lighting®

GENERAL PRODUCT INFORMATION:

This product is suitable for indoor locations.

This product can be dimmed with a standard electronic dimmer.

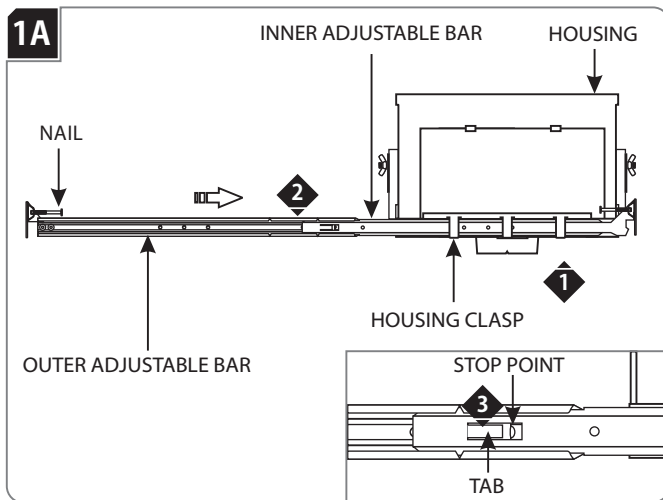This instruction shows a typical installation.

c **ETL** us
LISTED
Intertek

CAUTION - RISK OF FIRE
This product must be installed in accordance with the applicable installation code by a person familiar with the construction and operation of the product and the hazards involved.
Use minimum 90°c supply conductors.

Install the Housing with Adjustable Bars

1A INNER ADJUSTABLE BAR   HOUSING

NAIL

2

1

HOUSING CLASP

OUTER ADJUSTABLE BAR   STOP POINT

3

TAB

1B

NAIL

5

5

4

4

COLLAR   NAIL   JOIST

5

4

1 ▸ Slide the inner adjustable bar completely through the three housing clasps. Make sure the nail is on top.

2 ▸ Slide and push the outer adjustable bar completely onto the inner adjustable bar so that the tab clicks into place behind the stop point. This will prevent the adjustable bars from coming apart.

3 ▸ Repeat steps 2 & 3 for the other side of the housing.
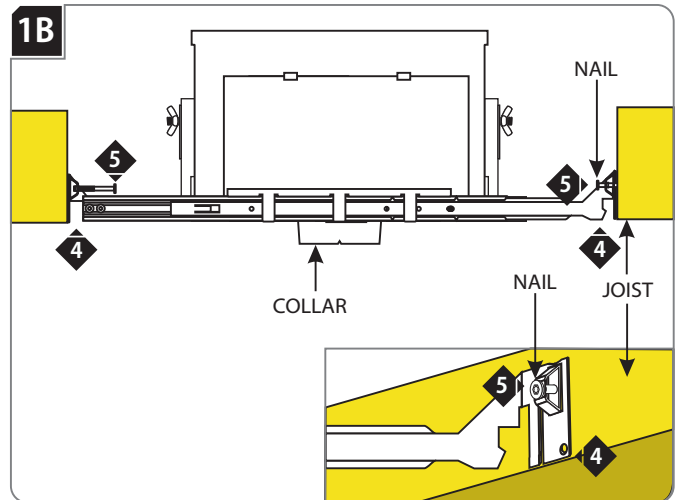
**NOTE:** The adjustable bars can be mounted to joists that are spaced 16" - 24" apart.

4 ▸ Align the bottom of the end plates with the bottom of the ceiling joists.

5 ▸ Level the adjustable bars and, with a hammer, tap the nails completely into the joists to secure the adjustable bars in place.

1C

ZIP TIE
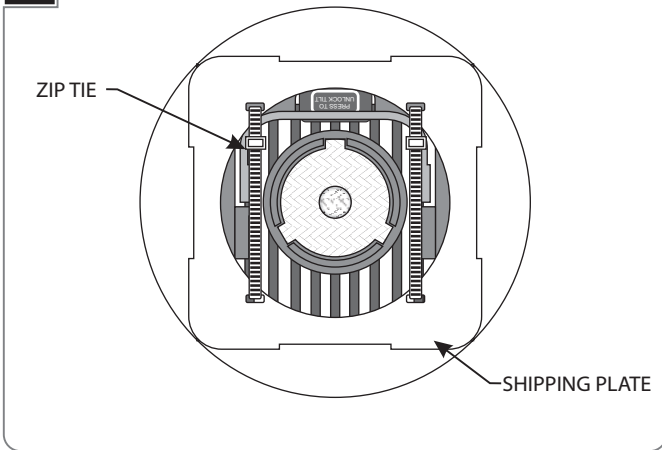
SHIPPING PLATE

6 ▶ Carefully cut and remove the zip ties to remove the shipping plate.

1D

7

ADJUSTABLE BAR

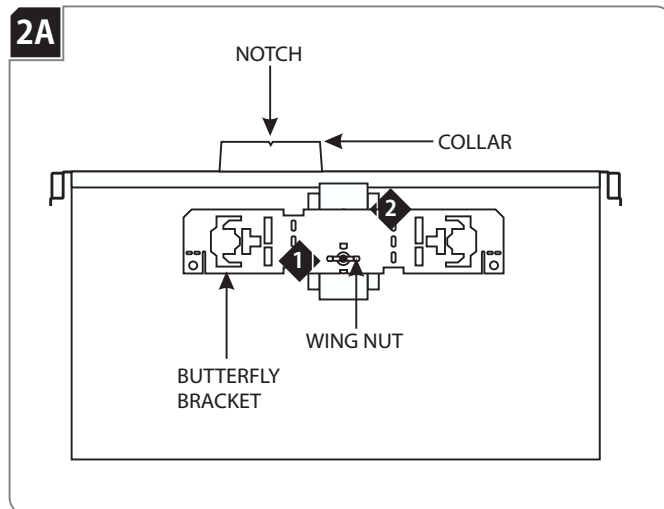HOUSING

COLLAR

NOTCH

8

COLLAR

8
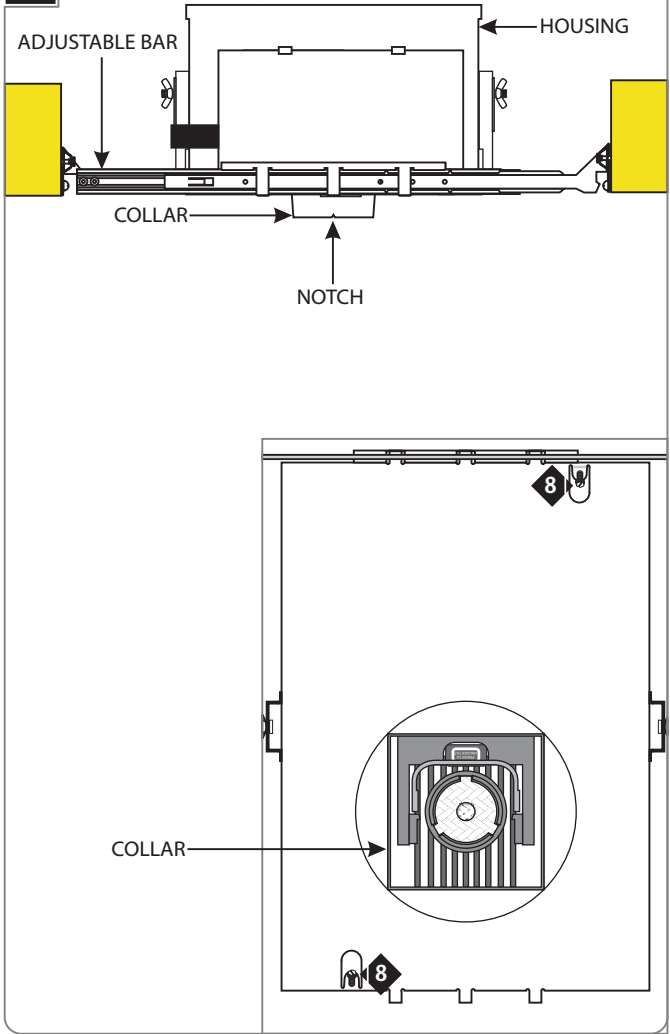
7 ▶ Adjust the collar position (horizontal position) by sliding the housing on adjustable bars.

8 ▶ When the desired location is achieved, tighten the two #6 self tapping screws to lock the housing onto the adjustable bars.

NOTE: See step 3 to align multiple housings using the notches.

Install the Housing with Butterfly Brackets

2A

NOTCH

COLLAR

WING NUT

BUTTERFLY
BRACKET

NOTE: Skip this section if installing the housing with adjustable bars.

1 ▶ Slightly loosen the wing nut to slide the butterfly bracket up or down.

2 ▶ After achieving the proper location, tighten the wing nut to secure the butterfly bracket in place.

3 ▶ Repeat steps 1 and 2 for the other butterfly bracket.

**4** ▶ Utilize the butterfly brackets to install the housing in accordance with local electrical codes.

NOTE: See step 3 to align multiple housings using the notches.

Align Multiple Housings (Optional)

3A

2x THUMB NUT
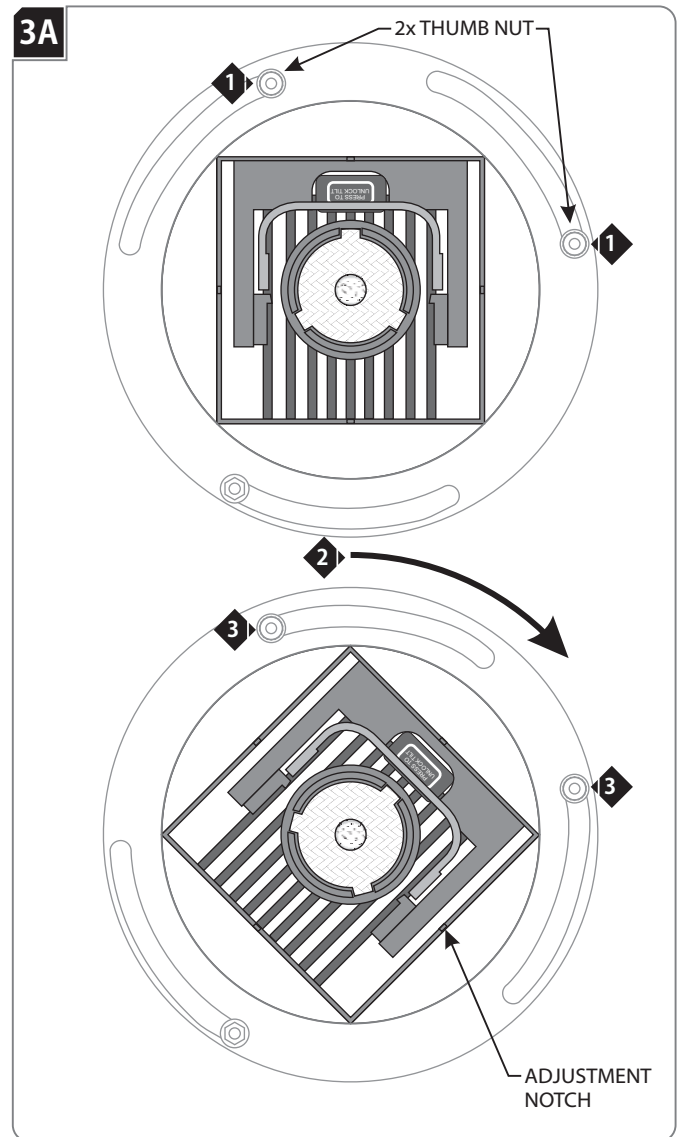
ADJUSTMENT
NOTCH

1 ▶ The alignment of the collars may be adjusted by reaching into the housing and loosening the two thumb screws. Note: Adjustment of the lamp and heat sink may be necessary to access the thumb nuts. See Section 6

2 ▶ Rotate the collar (up to 45°) and align with other fixtures using the notches in the collar with a laser or string.

3 ▶ Re-tighten the two thumb screws.
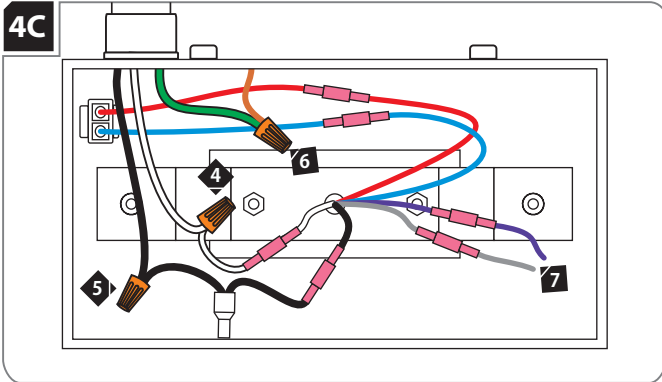
Connect Power to the Housing

4A

TABS

ELECTRICAL
BOX COVER

1

4B

2

3
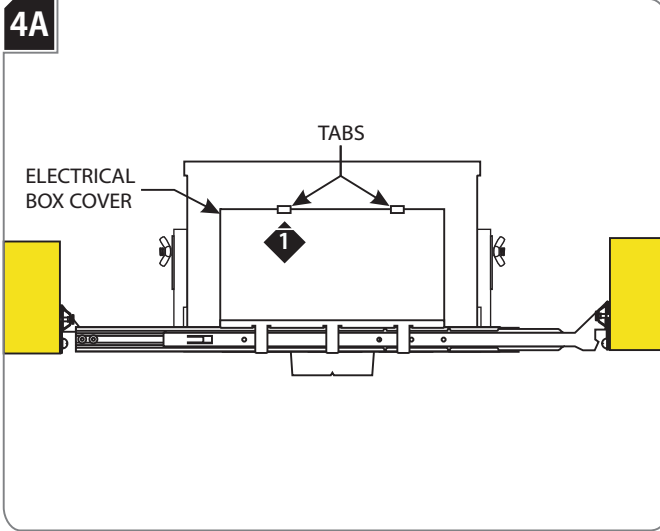
1 ▸ Push up on the tabs on the electrical box and remove the electrical box cover.
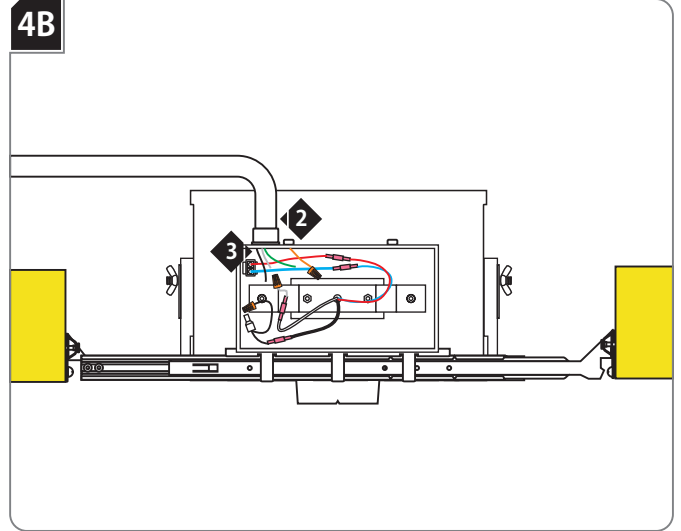
2 ▸ Install the conduit to the housing electrical box.

3 ▸ Run the power line wires into the housing electrical box.

WARNING: RISK OF FIRE: When using the housing electrical box for power feed through, use **MAX** 4 - #12 AWG, or 6 - #14 AWG branch circuit wires.
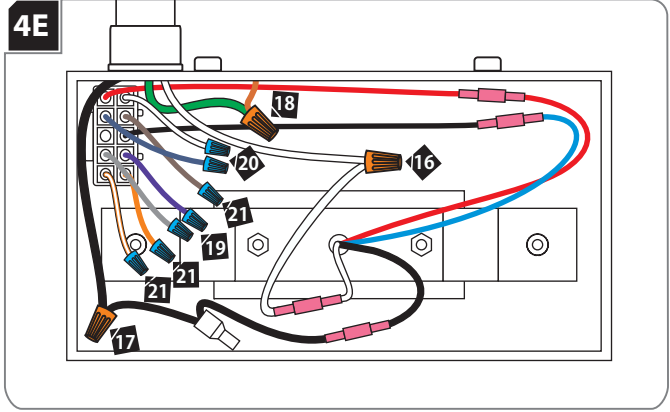
4C

4 ▶ Connect the neutral power line wire to the white transformer wire with a wire nut.

5 ▶ Connect the hot power line wire to the black thermal protector wire with a wire nut.

6 ▶ Make sure that housing is grounded in accordance with local electrical codes.

7 ▶ For models with a 0-10V dimming driver, use the purple and gray wire to connect to a compatible dimmer.

8 ▶ Replace the electrical box cover. Make sure that the top edge of the cover snaps under the tab.

9 ▶ Skip to section 5.

4D
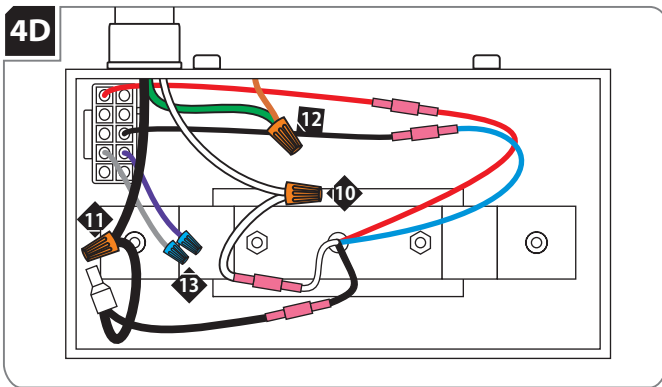
10 ▶ Connect the neutral power line wire to the white transformer wire with a wire nut.

11 ▶ Connect the hot power line wire to the black transformer wire with a wire nut.

12 ▶ Make sure that housing is grounded in accordance with local electrical codes.

13 ▶ For dimming, use the purple and gray wire to connect to a compatible dimmer.

14 ▶ Replace the electrical box cover. Make sure that the top edge of the cover snaps under the tab.

**15** ▶ Skip to section 5.

4E

16 ▶ Connect the neutral power line wire to the white transformer wire with a wire nut.

17 ▶ Connect the hot power line wire to the black transformer wire with a wire nut.

18 ▶ Make sure that housing is grounded in accordance with local electrical codes.

19 ▶ For dimming, use the purple and gray wires to connect to a compatible dimmer.

20 ▶ For white CCT (Color Control), use the blue and white wires to connect to a compatible dimmer, see wiring diagram in Section 8.

For remote CCT (Color Control), hue, and saturation control, use the LCT handheld unit (Light Commissioning Tool sold separately) and tie the blue and white wires together.

21 ▶ For DMX control wiring, use the following wires:

• Orange/White (DMX +)
• Orange (DMX -)
• Brown (Gnd)
• Tie the Purple, Grey, and White wires together.

22 ▶ Replace the electrical box cover. Make sure that the top edge of the cover snaps under the tab.

Install Drywall
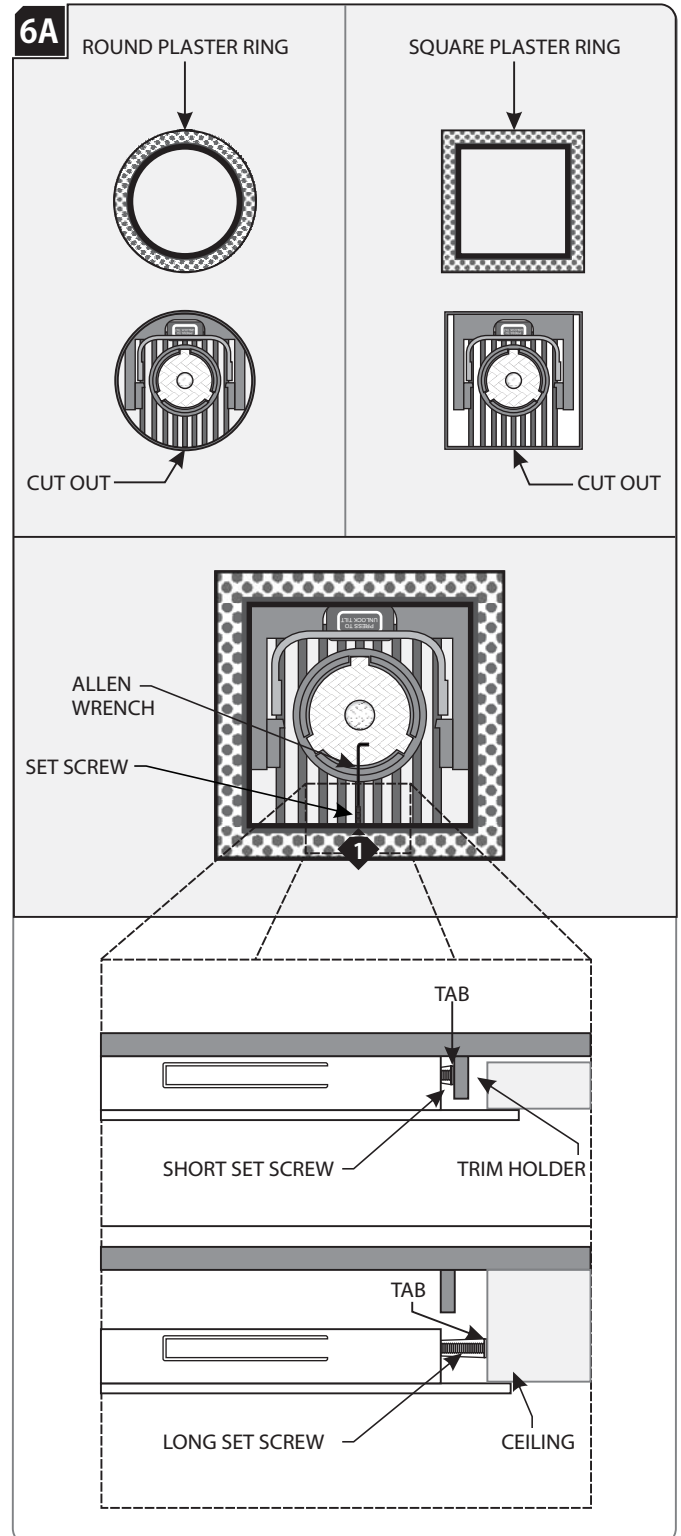
5A

4-1/2"

4-1/2"

ROUND COLLAR
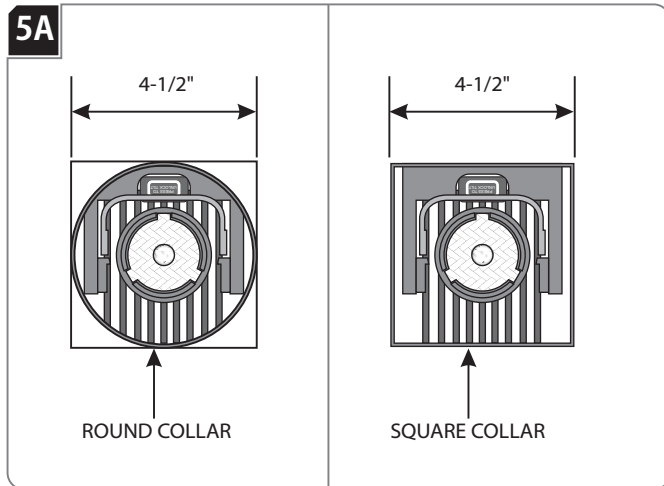
SQUARE COLLAR

1 ▶ For round trims, mark a 4-1/2" diameter circle on drywall. Cut out the marked section.
For square trims, mark a 4-1/2" square on drywall. Cut out the marked section.

5B

DRYWALL

COLLAR

JOIST
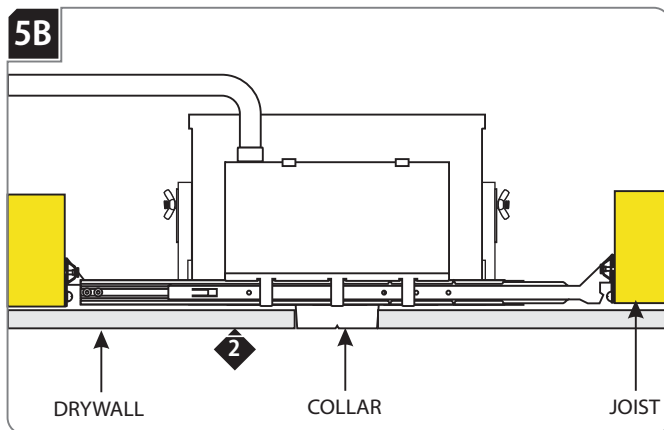
2 ▶ Align the cut out section of drywall with the collar and install drywall.

Install Plaster Ring (For Flangeless Versions)

6A

ROUND PLASTER RING

SQUARE PLASTER RING

CUT OUT

CUT OUT

ALLEN WRENCH

SET SCREW

TAB

SHORT SET SCREW

TRIM HOLDER

TAB

LONG SET SCREW

CEILING

1 ▶ Insert the plaster ring completely into the collar/ceiling and secure them in place with the provided set screws and Allen wrench.

NOTE: Longer set screws have been provided for instances where the plaster ring does not reach the collar and must be secured to the inside of the ceiling cutout. Use the short set screws if the trim is installed in the collar.

6B
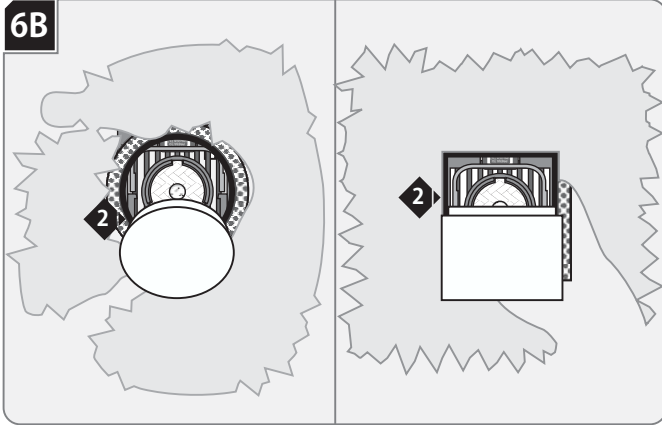
2 ▶ Plug the collar with the provided dust shield.

3 ▶ Properly plaster onto the plaster ring and drywall.
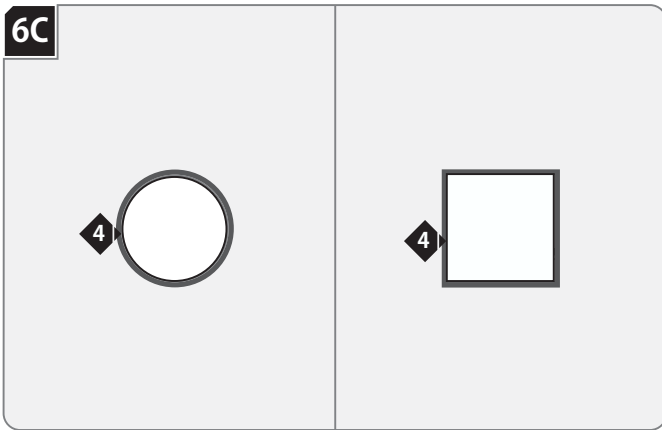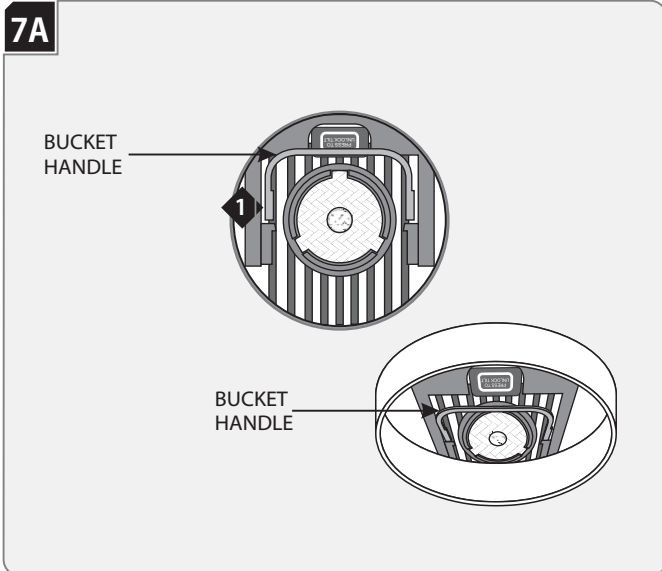
6C

4 ▶ Finish around the collar to match drywall.

Adjust the Lamp Position

7A

BUCKET
HANDLE

BUCKET
HANDLE

1 ▶ Push up the LED and heat sink to ensure that they are in the highest position.

7B

TILT ADJUSTMENT
LEVER

PRESS TO
UNLOCK TILT

INDICATOR

40° 30° 20° 10° 0°
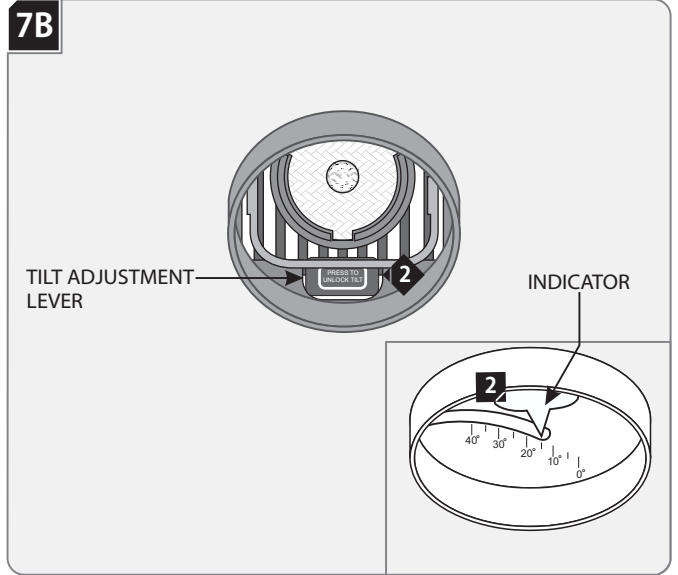
2 ▶ For proper wall wash positioning, unlock the tilt adjustment lever by pressing where indicated using a finger or screwdriver to tilt until 15° angle is reached.

7C
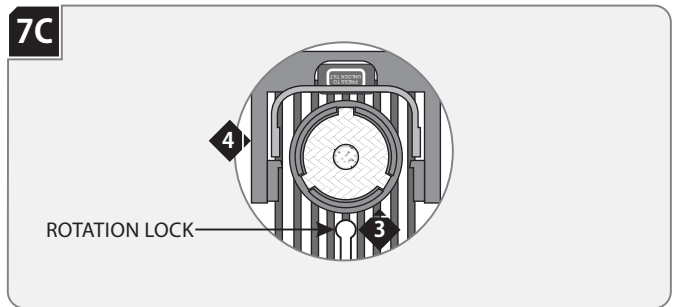
ROTATION LOCK

NOTE: Lamp housing can rotate 361° horizontally.

3 ▶ Pull the rotation lock down to unlock the lamp housing.

4 ▶ Rotate the lamp housing horizontally. When the desired position is achieved push the rotation lock up to lock the lamp housing in place.

Wiring Diagrams for Lumenetix LED

Element 4" LED – Lumenetix – Warm Dim & Programmable White for single 0-10v Dimmer

DMX Control Lines
Org/Wht = DMX +
Orange = DMX -
Brown = Sign Gnd

Red Wire
-Positive 12v

L.T.F
Dimmable LED D r i v e r
255LEDD*20W12V

Blue Wire
-Negative 12v

Blue Wire

White Wire

DMX Control Lines
Org/Wht = DMX +
Orange = DMX -
Brown = Sign Gnd
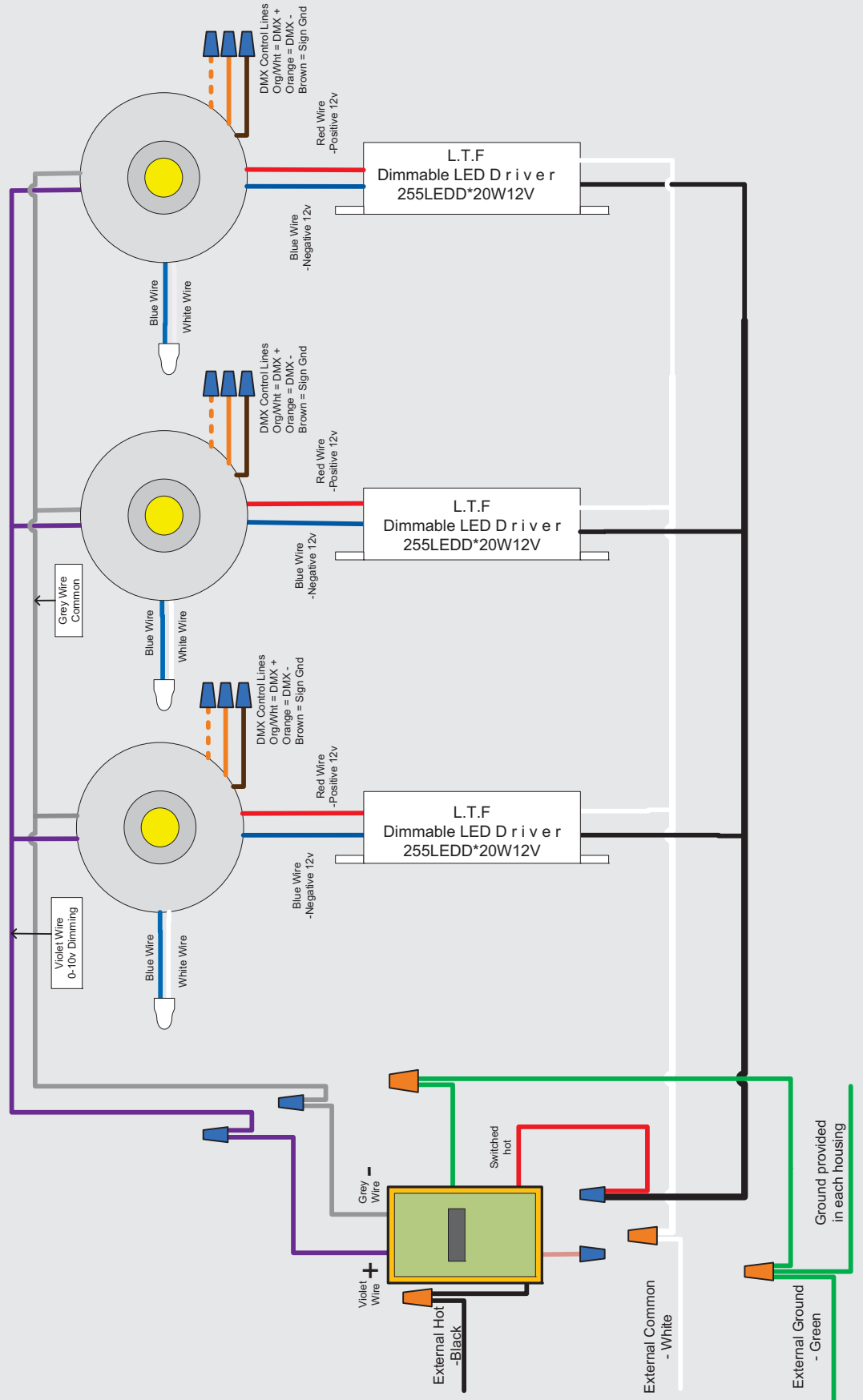
Red Wire
-Positive 12v

L.T.F
Dimmable LED D r i v e r
255LEDD*20W12V

Blue Wire
-Negative 12v

Grey Wire
Common

Blue Wire

White Wire

DMX Control Lines
Org/Wht = DMX +
Orange = DMX -
Brown = Sign Gnd

Red Wire
-Positive 12v

L.T.F
Dimmable LED D r i v e r
255LEDD*20W12V

Blue Wire
-Negative 12v

Violet Wire
0-10v Dimming

Blue Wire

White Wire

Grey Wire

Switched hot

Violet Wire

External Hot -Black

External Common - White

External Ground - Green

Ground provided in each housing

Element 4" LED Lumenetix Programmable White
for Dual 0-10v Dimmers

DMX Control Lines
Org/Wht = DMX +
Orange = DMX -
Brown = Sign Gnd

Red Wire
-Positive 12v

Blue Wire
-Negative12v

L.T.F
Dimmable LED D r i v e r
255LEDD*20W12V

Blue Wire

White Wire

DMX Control Lines
Org/Wht = DMX +
Orange = DMX -
Brown = Sign Gnd

Red Wire
-Positive 12v

Blue Wire
-Negative 12v

L.T.F
Dimmable LED D r i v e r
255LEDD*20W12V

Grey Wire
Common

Blue Wire

White Wire

DMX Control Lines
Org/Wht = DMX +
Orange = DMX -
Brown = Sign Gnd

Red Wire
-Positive 12v

Blue Wire
-Negative 12v

L.T.F
Dimmable LED D r i v e r
255LEDD*20W12V

Violet Wire
0-10v Dimming

Blue Wire

White Wire

Switched
hot

Grey
Wire

Violet
Wire

Switched
hot

Grey
Wire

Violet
Wire

External Hot
-Black

External Common
- White

External Ground
- Green

Ground provided
in each housing

Notes

Notes

SAVE THESE INSTRUCTIONS!