

200-HD SERIES NEW CONSTRUCTION

TYPE NON -IC / TYPE IC RATED INSTALLATION INSTRUCTIONS

WARNING: Read and understand these instructions completely before installation. Disconnect power at circuit breaker or fuse panel before installation. Always allow LED assembly to cool before servicing. To be installed by qualified electricians only. Products should be installed in accordance with these instructions, local electrical codes, and the National Electric Code (NEC). These products may represent a possible shock or fire hazard if improperly installed.

Do not install where insulation or ambient temperatures will exceed maximum values noted in product specifications. See www.8lighting.com for current product specifications.

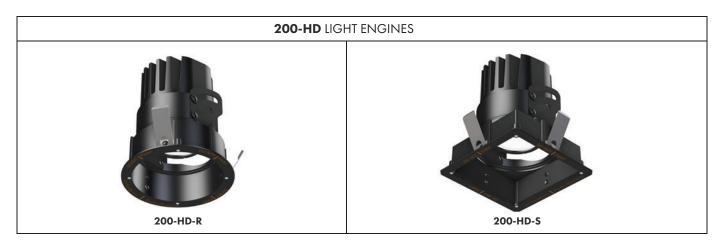
NOTE: Number Eight Lighting fixtures are designed to meet the latest NEC requirements and are listed in full compliance with UL standards. Before attempting installation check your local electrical code which sets the wiring standards and installation requirements for your locality.

Save these instructions.

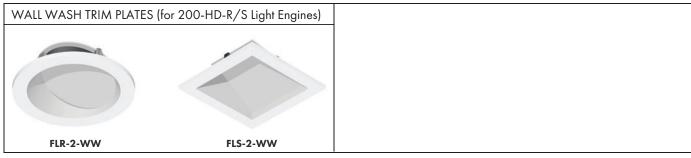
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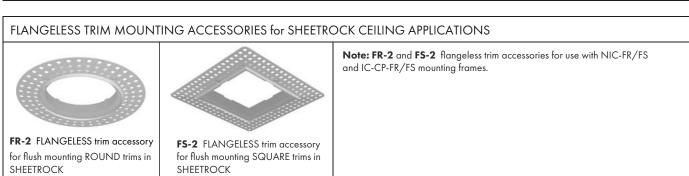
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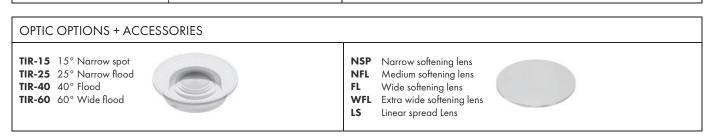
200-HD SERIES NEW CONSTRUCTION COMPONENTS



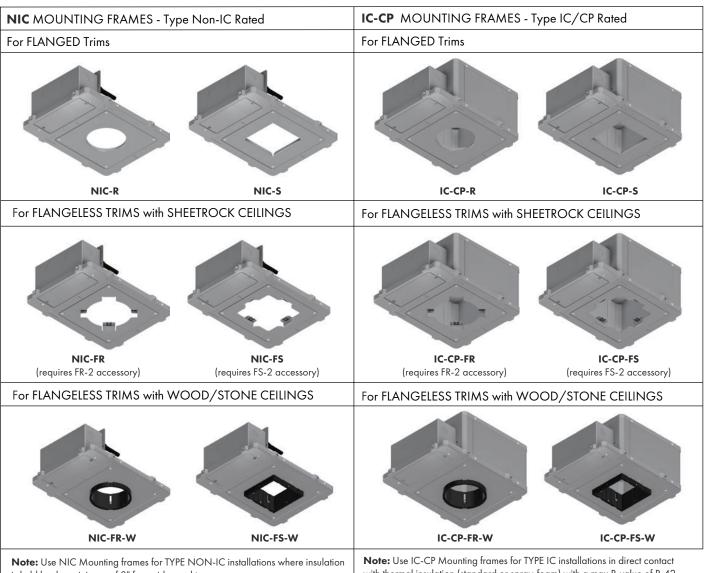








200-HD SERIES NEW CONSTRUCTION COMPONENTS



is held back a minimum of 3" from sides and top.

Caution: Ambient temperatures in ceiling space should not exceed 40°C (104°F) during normal operation.

with thermal insulation (standard or spray-foam) with a max R-value of R-42 or for CCEA (Chicago Plenum) installations.

Caution: When installed in contact with thermal insulation, ambient temperatures in ceiling space should not exceed 25°C (77°F) during normal operation. For installations where insulation is held back a minimum of 3" from sides and top, ambient temperatures in ceiling space should not exceed 40°C (104°F) during normal operation.

FRAME MOUNTING ACCESSORIES



BB BUTTERFLY BRACKET (Set of 2) For commercial c-channel or bar mounting



BH BAR HANGER (Set of 2) For joist mounting)



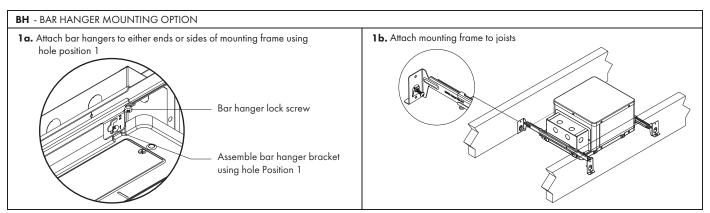
PMB PANEL MOUNTING BRACKET (Set of 2) For direct mounting to wood panels

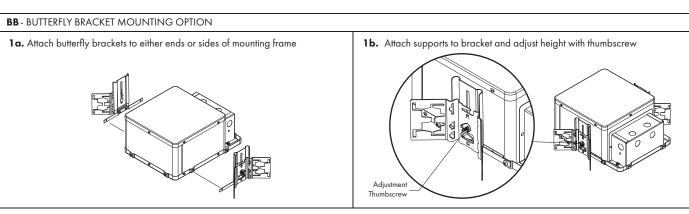


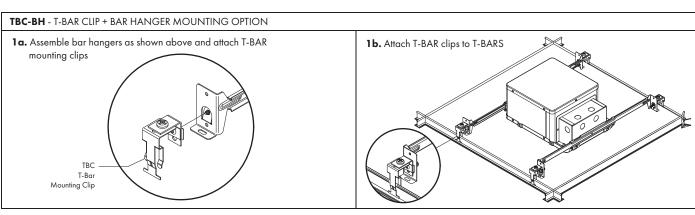
TBC T-BAR MOUNTING CLIPS (Set of 4) For use with BH Bar Hanger in T-GRID ceiling applications

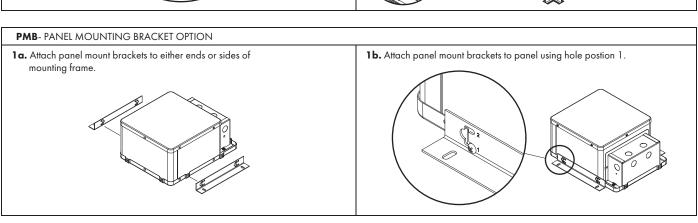
NEW CONSTRUCTION INSTALLATION

STEP 1 - MOUNTING FRAME ASSEMBLY AND INSTALLATION



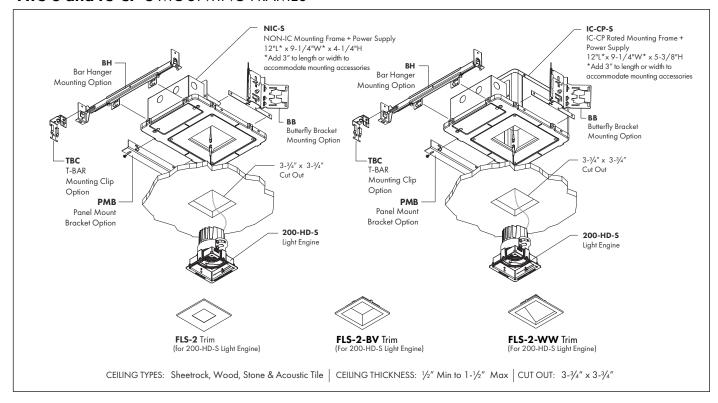




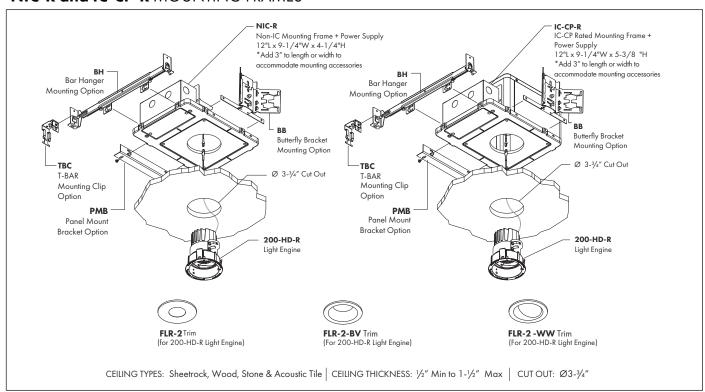


NEW CONSTRUCTION INSTALLATION - FLANGED TRIMS with SHEETROCK, WOOD STONE & ACCOUSTIC TILE

NIC-S and IC-CP-S MOUNTING FRAMES



NIC-R and IC-CP-R MOUNTING FRAMES



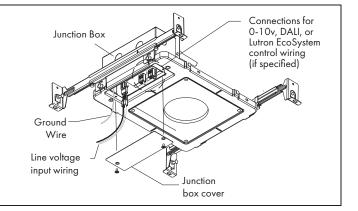
STEP 1- REFER TO PAGE 3 for MOUNTING FRAME ASSEMBLY AND INSTALLATION

NEW CONSTRUCTION INSTALLATION - FLANGED TRIMS

STEP 2 - FIXTURE WIRING

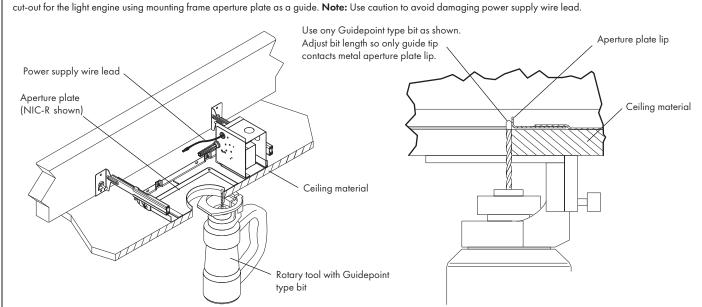
- 2a. Disconnect power at circuit breaker.
- **2b.** Remove junction box cover. Install appropriate conduit connector(s). using one or more of the provided junction box knock-outs.
- **2c.** Review wiring diagrams on pages 15 and 16, wire fixture accordingly. Place all wiring and connectors back in junction box and replace cover.

Note: 0-10v, DALI, or Lutron EcoSystem power supplies (if specified) require additional dimming control wiring

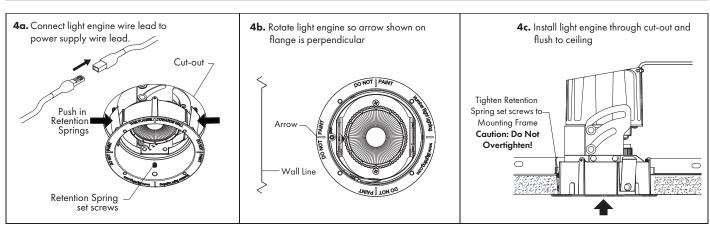


STEP 3 - CEILING CUT-OUT

3a. Install ceiling material over mounting frame noting approximate location of frame aperture. Using a spiral saw with appropriate guide bit, make square or round cut-out for the light engine using mounting frame aperture plate as a guide. Note: Use caution to avoid damaging power supply wire lead.



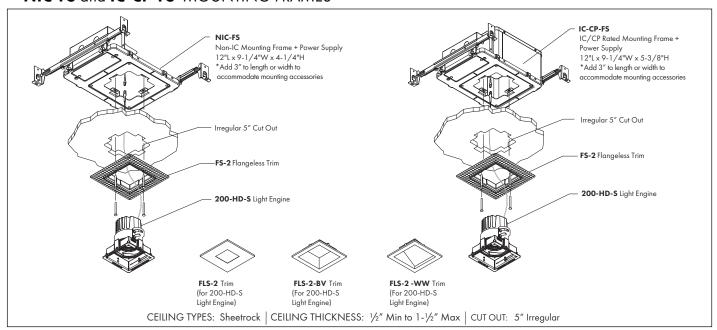
STEP 4 - LIGHT ENGINE WIRING AND INSTALLATION



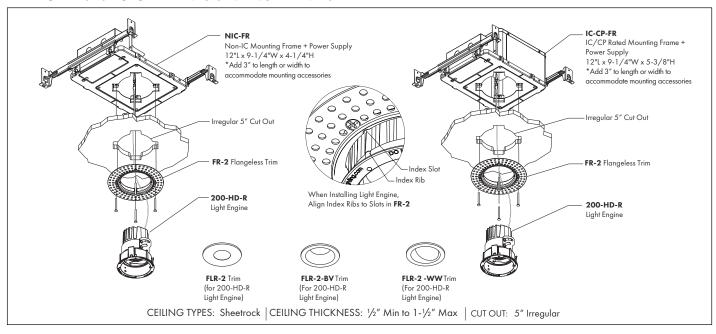
4d. Install trim plate (see Page 14).

NEW CONSTRUCTION INSTALLATION - FLANGELESS TRIMS and SHEETROCK CEILINGS

NIC-FS and IC-CP-FS MOUNTING FRAMES



NIC-FR and IC-CP-FR MOUNTING FRAMES

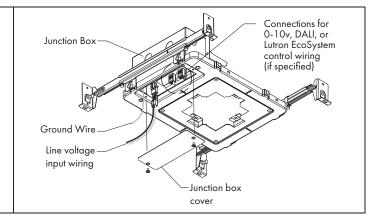


STEP 1 - REFER TO PAGE 3 for MOUNTING FRAME ASSEMBLY AND INSTALLATION

STEP 2 - FIXTURE WIRING

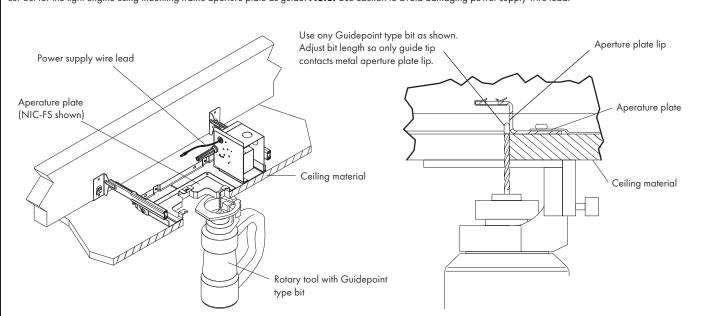
- **2a.** Disconnect power at circuit breaker.
- **2b.** Remove junction box cover. Install appropriate conduit connector(s). using one or more of the provided junction box knock-outs.
- **2c.** Review wiring diagrams on pages 13 and 14, wire fixture accordingly. Place all wiring and connectors back in junction box and replace cover.

Note: 0-10v, DALI, or Lutron EcoSystem power supplies (if specified) require additional dimming control wiring



STEP 3 - CEILING CUT-OUT

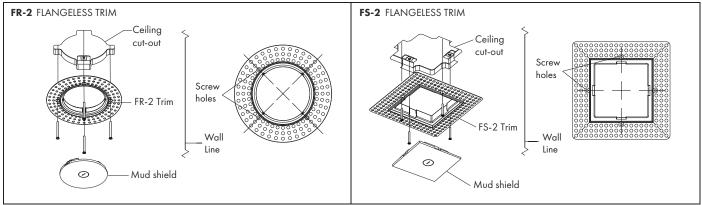
3a. Install ceiling material over mounting frame noting approximate location of frame aperture. Using a spiral saw with appropriate guide bit, make square or round cut-out for the light engine using mounting frame aperture plate as guide. **Note:** Use caution to avoid damaging power supply wire lead.



STEP 4 – FLANGELESS TRIM INSTALLATION

4a. Remove mud shield and save. Install FS-2 or FR-2 flangeless trim to mounting frame through cut-out using 4x FHMS 8-32 screws provided. Note: do not tighten screws until Step 4b.

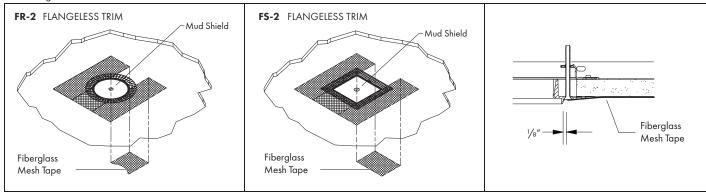
4b. Rotate trim to be aligned with adjacent walls or fixtures as shown below. Note: hand tighten trim screws. Power driver is not recommended.



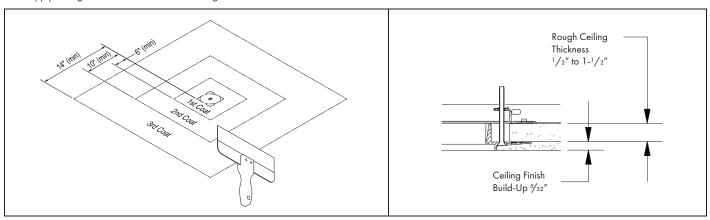
STEP 4 - FLANGELESS TRIM INSTALLATION (CONTINUED)

4c. Reinstall mud shield

4d. Apply 6" wide fiberglass mesh tape over perforated metal trim flange leaving 1/8" cut-out around the outside edge of the raised trim lip and extending over sheetrock.



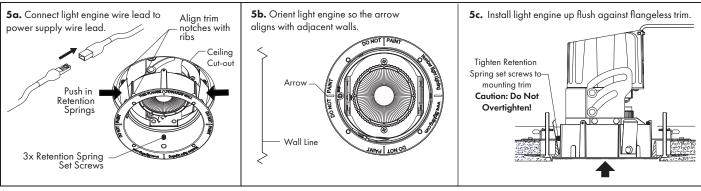
4e. Apply ceiling finish around FR-2 or FS-2 flangeless trim. Note: Minimum Level 4 or 5 finish is recommended.



- 4f. First Coat Apply USG "Durabond" setting-type joint compound for embedding the perforated flange and fiberglass mesh tape following the manufacturer's instructions and warnings for outside corners and trim. The compound should extend a minimum of 6" from the edge. Allow first coat to dry completely and remove any high spots by lightly sanding before applying the second coat.
- **4g.** Second Coat Apply USG general purpose ready-mixed joint compound flush to finished edge of trim, floating outward following the manufacturer's instructions and warnings. The compound should extend a minimum of 10" from the trim edge. Allow second coat to dry completely and remove any high spots by lighting sanding before applying the third coat.
- **4h.** Third Coat Apply USG ready-mixed finishing joint compound flush to finished edge of trim, floating outward following the manufacturer's instructions and warnings. The compound should extend a minimum of 14" from the trim edge. Allow third coat to dry completely before sanding.
- 4j. Remove mud shield.
- 4i. Sand third coat with fine grit sandpaper until mud shield and finished metal edge of trim lip are barely exposed.
- **4k.** Remove mud shield.
- 41. Apply primer (USG Sheetrock or equivalent) and paint following the paint manufacturer's instructions and warnings.

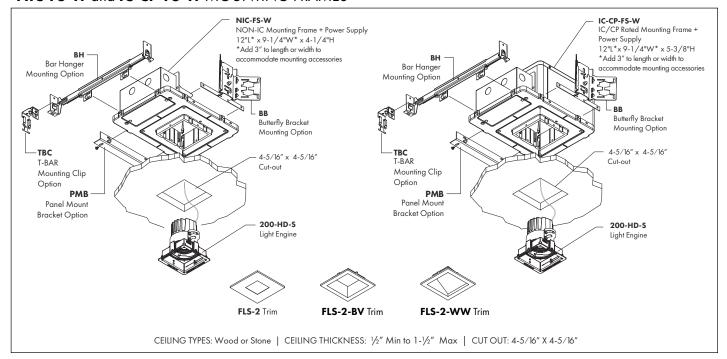
Caution: Do not paint inside of FR-2 or FS-2 trim surface.

STEP 5 - LIGHT ENGINE WIRING AND INSTALLATION

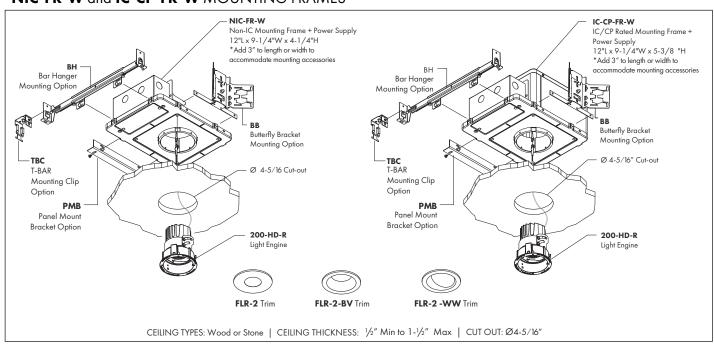


5d. Install trim plate (see Page 14).

NIC-FS-W and IC-CP-FS-W MOUNTING FRAMES



NIC-FR-W and IC-CP-FR-W MOUNTING FRAMES

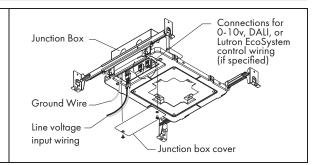


STEP 1 - REFER TO PAGE 3 for MOUNTING FRAME ASSEMBLY AND INSTALLATION

STEP 2 - FIXTURE WIRING

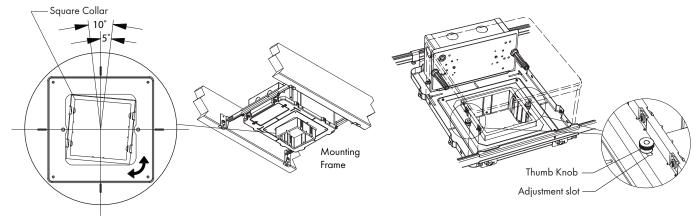
- 2a. Disconnect power at circuit breaker.
- 2b. Remove junction box cover. Install appropriate conduit connector(s) using one or more of the provided junction box knock-outs.
- 2c. Review wiring diagrams on pages 13 and 14, wire fixture accordingly. Place all wiring and connectors back in junction box and replace cover.

Note: 0-10v, DALI, or Lutron EcoSystem power supplies (if specified) require additional dimming control wiring.

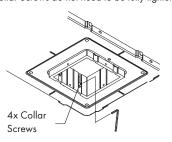


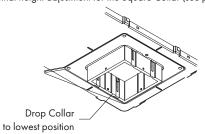
STEP 3 (OPTIONAL) - SQUARE COLLAR ANGLE ADJUSTMENT

 $\textbf{Note:} \ \ \text{The Square Collar can be rotated +/-5° to align with adjacent wall or fixtures.} \ \ \text{Thumb Knobs shown below will permit adjustment.}$



3a. Loosen (do not remove) the 4x Collar Screws using supplied 5/32" allen key & pull the Square Collar down to the lowest position. Note that the Collar Screws do not need to be fully tightened again until after determining final height adjustment for the Square Collar (see page 12).

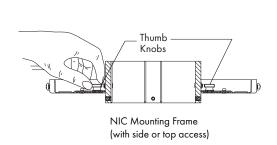


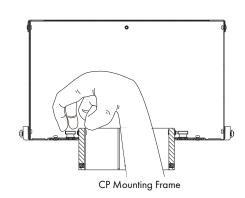


3b. Loosen two Thumb Knobs inside the Mounting Frame adjust the angle as needed.

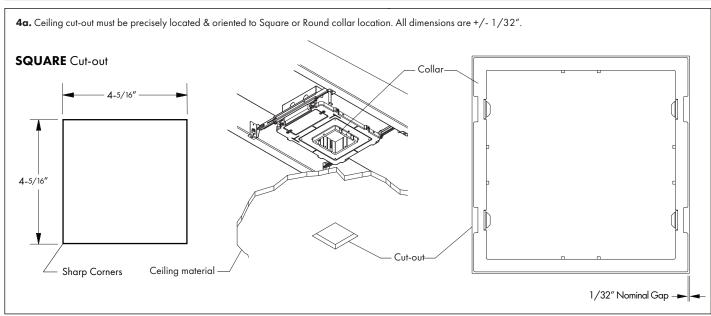
Note: For open NIC Mounting Frames the two knobs may be accessible from above or the sides. For IC-CP mounting frames the knobs can only be accessed through the square collar.

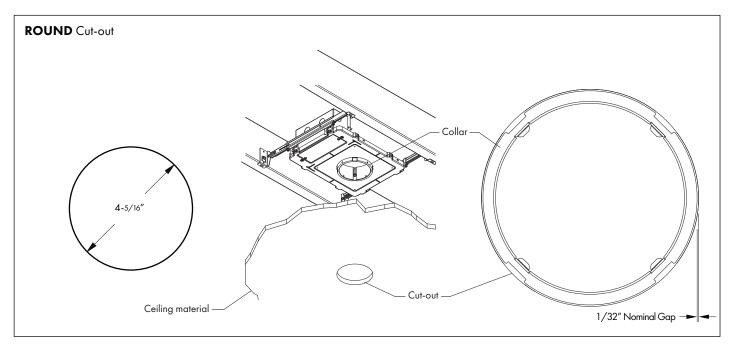
3c. Hand tighten the Thumb Knobs to lock-in the desired angle.



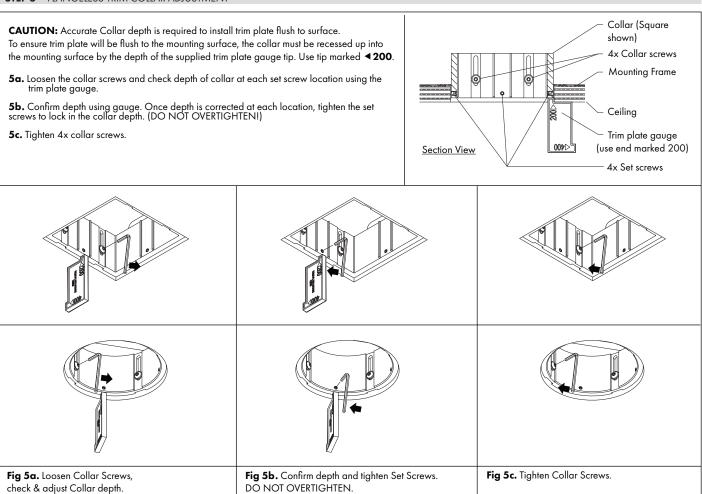


STEP 4 - CEILING CUT-OUT

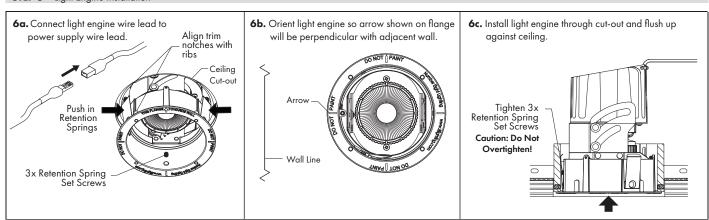




STEP 5 - FLANGELESS TRIM COLLAR ADJUSTMENT



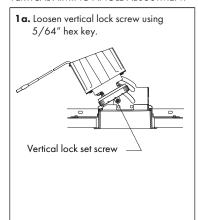
STEP 6 – Light Engine Installation

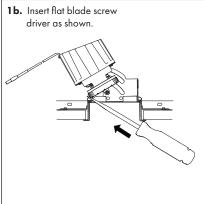


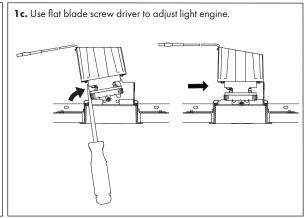
6d. Install trim plate (see page 14).

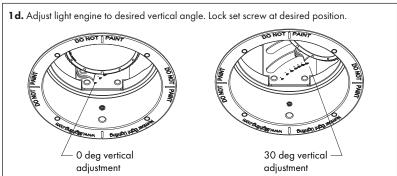
STEP 1 - AIMING AND ADJUSTMENT

VERTICAL AIMING ANGLE ADJUSTMENT

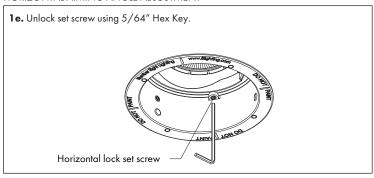


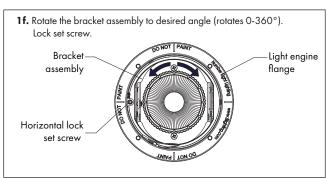






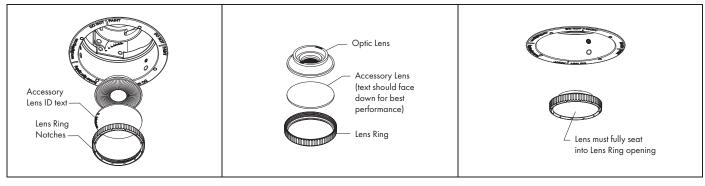
HORIZONTAL AIMING ANGLE ADJUSTMENT





STEP 2 - LENS AND ACCESSORY REMOVAL AND REPLACEMENT

- 2a. Remove the lens ring from the lamp holder by unscrewing counter-clockwise. Note: Use flat head screw driver in lens ring notches if required to loosen.
- **2b.** Remove optic lens (and accessory lens if used) from the lens ring.
- 2c. Install desired optic (and accessory lens if used) into the lens ring.
- 2d. Reinstall lens ring on to lamp holder by turning clockwise.



TRIM PLATE FINISHING & INSTALLATION

STEP 1. (OPTIONAL) - PAINT TRIM PLATE

1a. Remove the trim plate from packaging.

1b. Clean and prepare exposed surfaces for painting following the paint manufacturers instructions and warnings.

1c. Paint as desired using a "dry roller" or light spray application.

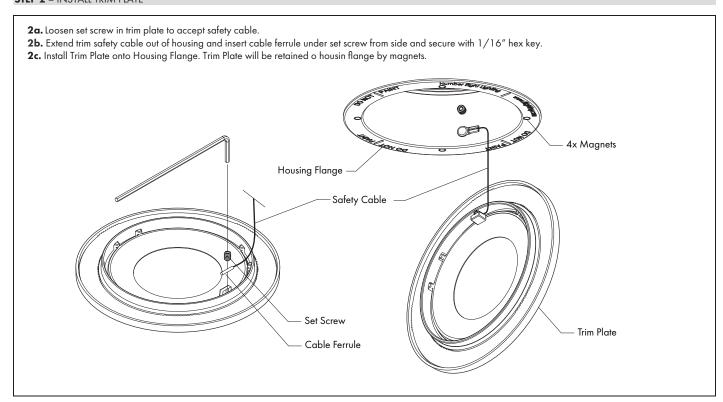
Note: If applying paint by spray method, mask trim plate lens (If installed).

Caution: Paint must be rated for minimum 90 C (150 F). Do not paint trim plate while installed in fixture. Do not paint backside of trim plate or safety cable.

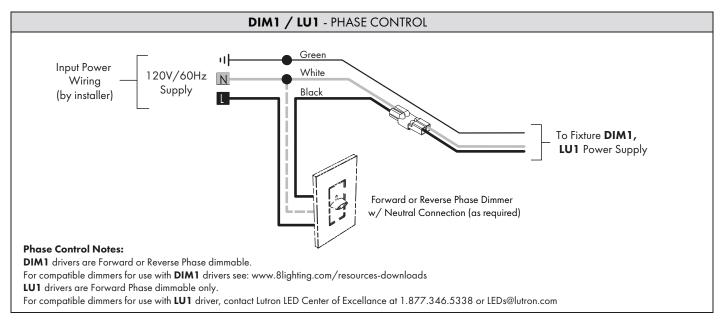
Do not paint edges of trim plate if using with FR-2 or FS-2 flangeless trim.

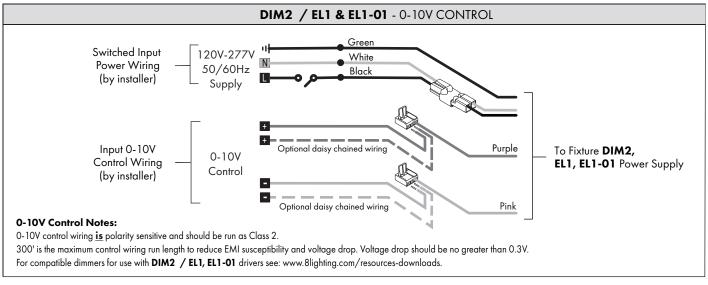
1d. Allow trim plate to dry completely before installing.

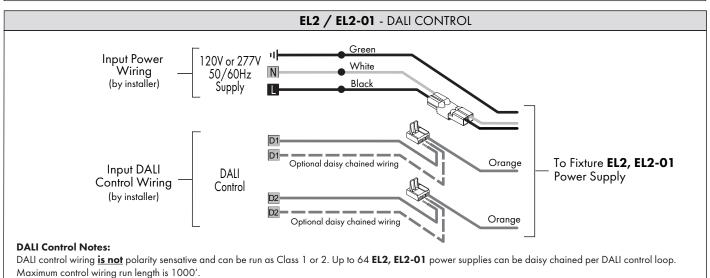
STEP 2 - INSTALL TRIM PLATE



WIRING DIAGRAMS

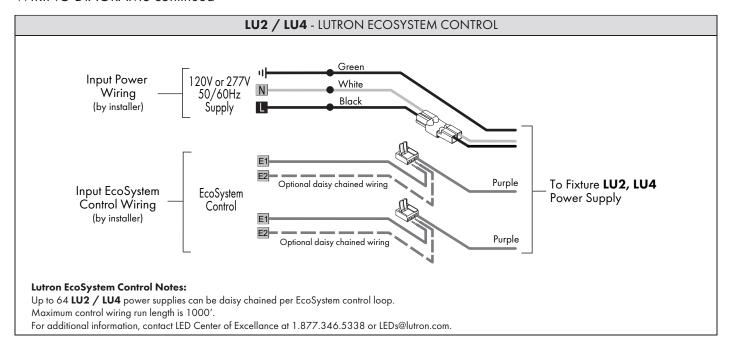






For compatible dimmers for use with EL2, EL2-01 drivers see: www.8lighting.com/resources-downloads

WIRING DIAGRAMS continued





8lighting.com

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