

4 | 6 INCH DOWNLIGHT

INSTALLATION INSTRUCTIONS



WARNING:

- 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.
- Make sure all electrical power is turned off while installing the fixture.
- This luminaire must be adequately grounded for protection against shock hazards and to assure proper operation.
- Disconnect power before servicing.
- LEDs are ESD (Electro Static Discharge) sensitive devices that can be easily damaged if the proper ESD mitigating steps are not taken.
- LEDs are very sensitive to mechanical damage. Caution must be taken to avoid damage to the LEDs.
- ESD or mechanical damage voids all warranties.
- Suitable for dry and damp locations. Suitable for wet location under covered ceiling when specified with WET/CC or TD options.

FOR USE WITH:

- | | | | | | | |
|-------|-------|-------|-------|-------|---------|---------|
| ▪ 4AR | ▪ 4DS | ▪ 4PS | ▪ 6DR | ▪ 6PR | ▪ HM4DR | ▪ HS4DR |
| ▪ 4DR | ▪ 4PR | ▪ 6AR | ▪ 6DS | ▪ 6PS | ▪ HM6DR | ▪ HS6DR |

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MOUNTING PAN INSTALLATION (For remodel, proceed to STEP 4)

STEP 1: Pre-attach the specified mounting hardware to the fixture pan. See FIG 1.1 – FIG 1.4

FIG 1.1 Integral 2-position fixed pan bracket.
F1: Universal bar hanger, shown: 14" min – 24" max

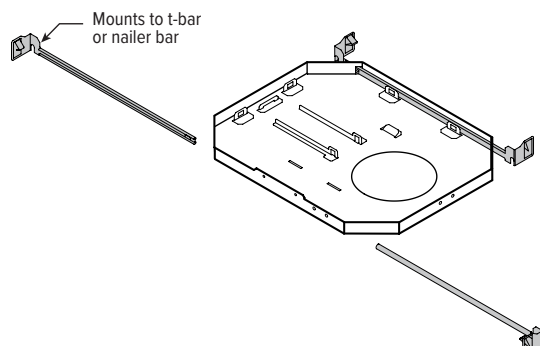


FIG 1.2 2-position fixed pan bracket with IC housing.

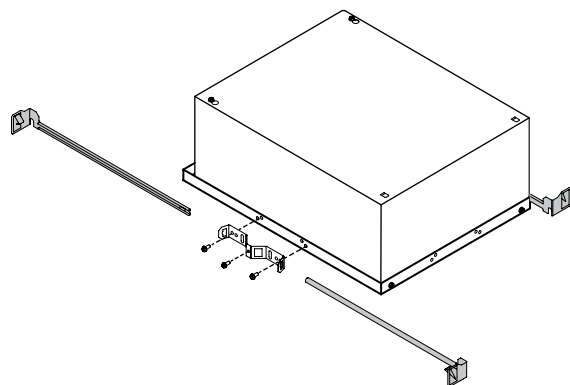


FIG 1.3 Adjustable butterfly pan bracket.
BA1: Butterfly bracket only.
BA2: Heavy-duty universal bar hanger, shown: 12" min – 24" max

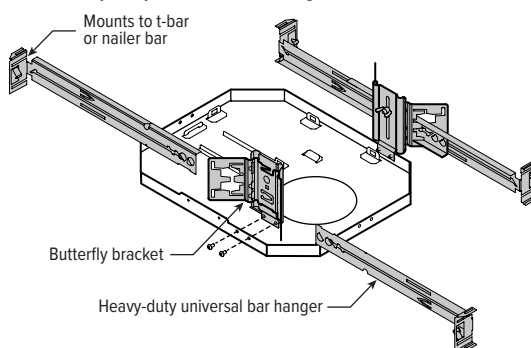
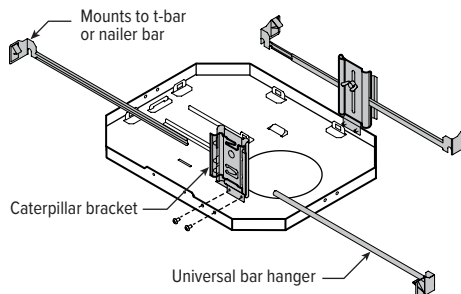


FIG 1.4 Adjustable caterpillar pan bracket.
CA1: Universal bar hanger, shown: 14" min – 24" max
CA2: T-bar clip hanger: 11" min – 26" max



STEP 2: Install pan assembly as required for ceiling structure while aligning the pan aperture with the ceiling cutout.

STEP 3: Route the flexible metal conduit containing all of the required power input and control leads to the pan location. Leave enough length for pulling at least one foot below the ceiling plane through the ceiling cutout.

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ELECTRICAL CONNECTIONS

STEP 4: Connect junction box to conduit.

- A.** Pull the flexible conduit down through the ceiling cutout and connect the junction box, see FIG 4.1.

FOR IC MOUNTING ONLY: Route supply conduit to the IC housing knockout and connect to the IC housing, see FIG 4.2.

FIG 4.1

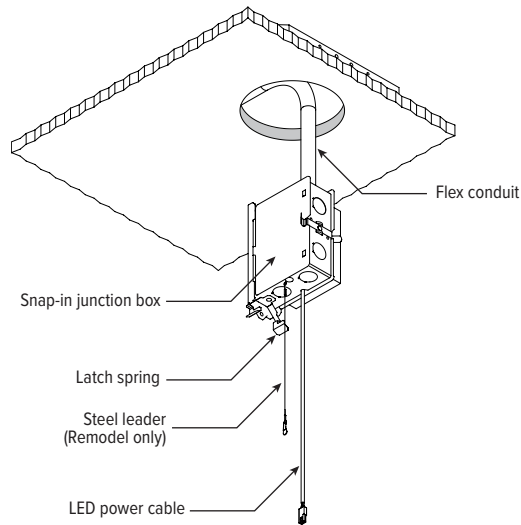
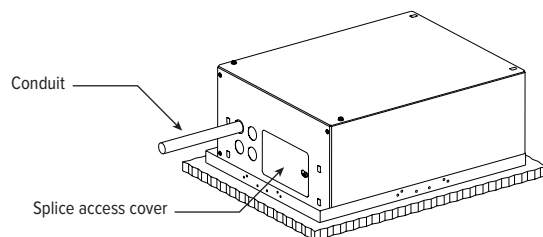
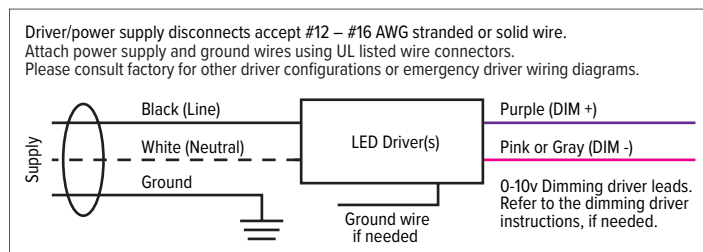


FIG 4.2



- B.** Make all necessary lead terminations within the junction box. Attach power supply and ground wires using UL listed wire connectors. Re-attach the access cover. Please consult factory for other driver configurations or emergency driver wiring diagrams.

FIG 4.3 Make electrical connections in accordance with NEC and local codes.



JUNCTION BOX INSTALLATION

STEP 5: Install junction box.

- A. FOR NEW CONSTRUCTION ONLY:** Install junction box to mounting pan (see FIG 5.1) Maneuver the junction box up through the ceiling cutout, rotate down 90°, then slide back into the receiver bracket until the latch spring engages to lock it into the pan.

FOR REMODEL ONLY: Install junction box in ceiling plenum. (see FIG 5.2) Maneuver the junction box up through the ceiling cutout, place 2" from ceiling opening.

FIG 5.1

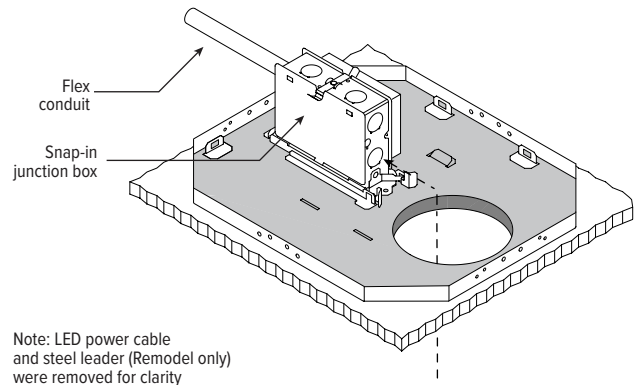
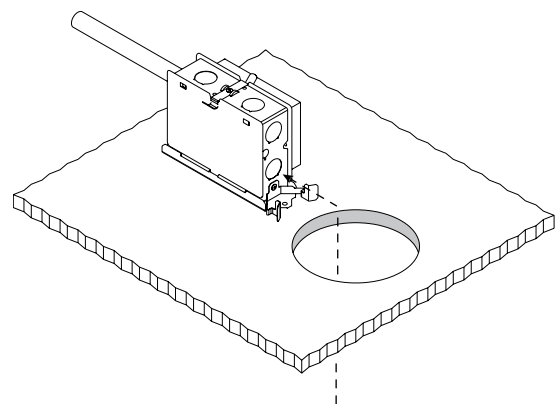


FIG 5.2

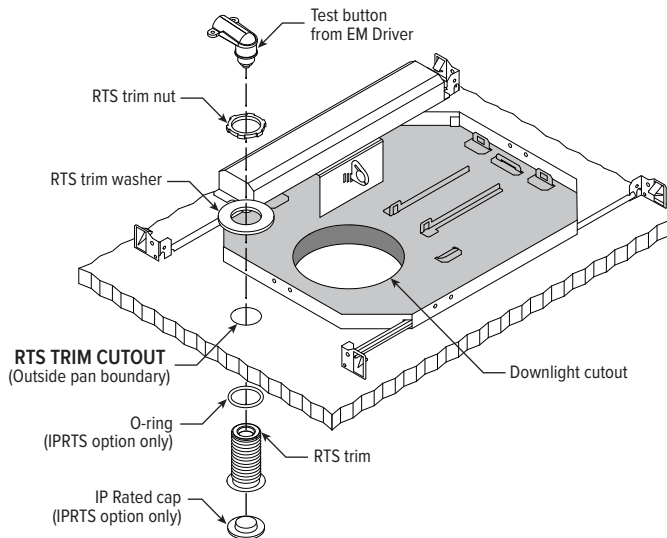


- B.** Pull the LED power cable and steel leader (Remodel only) down through the ceiling cutout so they are accessible for the downlight insert installation.

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INSTALLATION INSTRUCTIONS

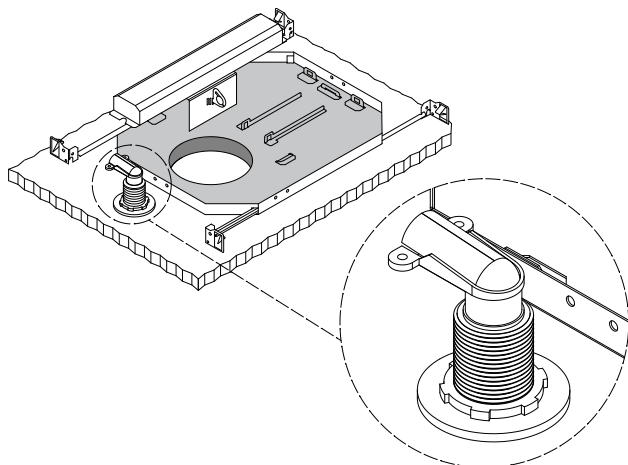
OPTIONAL REGRESSED TEST SWITCH INSTALLATION



NOTE: The RTS trim, nut and washer will be supplied as a kit that ships with each EM/_W/RTS specified downlight. Kit also includes o-ring and IP rated cap when specified with EM/_W/IPRTS option.

- Using a 1-3/8" hole saw, measure and drill the RTS trim cutout so that it is **located outside the pan boundary**.
- Push the RTS trim up through the RTS trim cutout, then hold it against the ceiling.
- Reaching through the downlight cutout, install the RTS washer and RTS nut to the RTS trim, leaving loose.
- Reaching through the downlight cutout, maneuver the test button onto the RTS trim. Rotate the RTS trim from below to secure it to the test button.
- To complete installation, tighten the RTS nut firmly against the RTS washer.

NOTE: If the ceiling surface in an IPRTS installation is too rough to be sealed properly by the o-ring, it is recommended to apply a bead of silicone caulking around the perimeter of the o-ring before installing the plug.



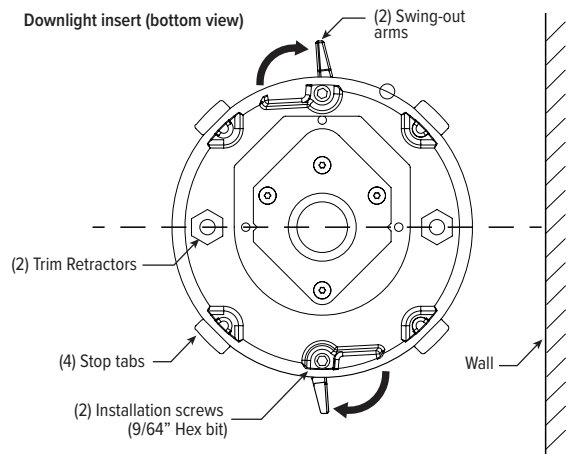
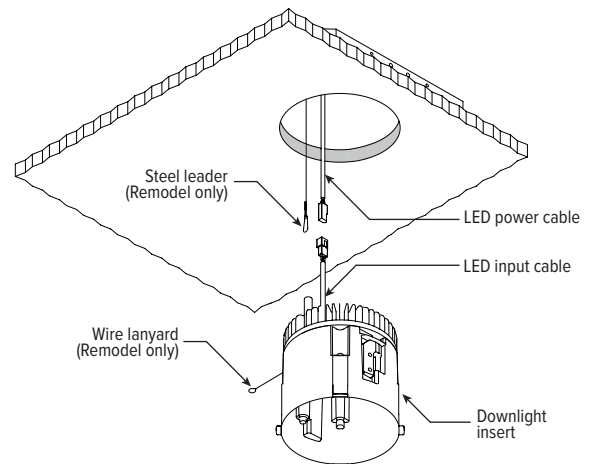
DOWNLIGHT INSERT INSTALLATION

STEP 6: Connect downlight insert to power (see FIG 6.1).

- REMODEL ONLY:** Connect the steel leader to the wire lanyard so the downlight insert is supported. The fixture will need to remain supported for remodel installations.
- Terminate the LED power cable to the LED input cable on the downlight insert.

NOTE: Fixtures with trim retractors (4DR, 4PR, 6DR, 6PR) and directional trims (WW and Angled) must be installed with trim retractors aligned perpendicular to wall, as shown (see FIG 6.1).

FIG 6.1



C. Install downlight insert to ceiling.

Maneuver the downlight insert up through the ceiling cutout until the stop tabs are flush against the ceiling plane.

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INSTALLATION INSTRUCTIONS

SWING OUT ARMS/MOUNTING CLIPS INSTALLATION

STEP 7: Secure downlight.

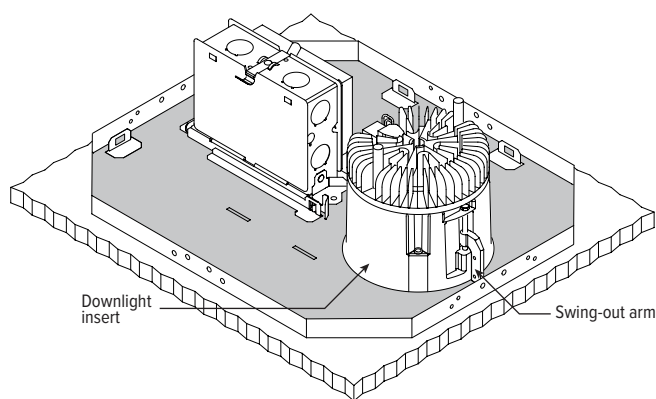
NOTE: If job-related ceiling thickness is outside of specified ranges, please consult factory.

SWING OUT ARMS ONLY (see FIG 7.1):

While continuing to support the insert, use a 9/64" hex bit to drive the installation screws - this will cause the swing-out arms to deploy, draw down, and clamp the insert in place.

Ceiling thickness range: 4DR, 4DS, 6DR, 6DS: 1/2"–1-7/16" (standard, see FIG 7.1 for thick ceiling modification)

FIG 7.1 SWING OUT ARMS. New construction shown. Remodel has no pan.

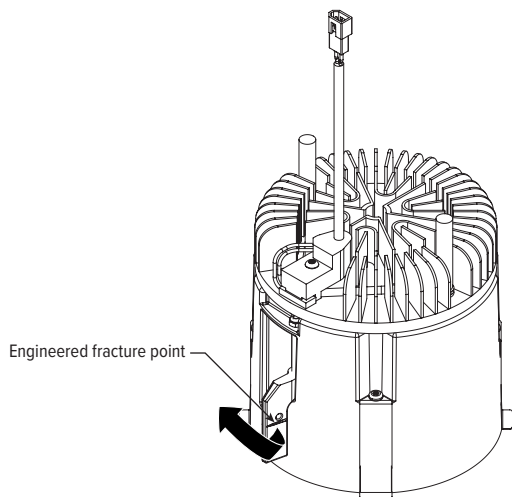


THICK CEILING MODIFICATION

4DR, 4DS, 6DR, and 6DS fixtures are easily field modified for thick ceiling applications. As shipped they are configured to a ceiling thickness range of 1/2" to 1-7/16". They are engineered to be field modified as needed to accommodate thick ceilings from 1-7/16" to 2-1/4" thick.

Using (2) pairs of pliers, firmly grasp swing out arm above and below engineered fracture point and bend short side as shown to shorten. (see FIG 7.2)

FIG 7.2 4DR | 4DS | 6DR | 6DS thick ceiling modification.



MOUNTING CLIPS ONLY (see FIG 7.3 & FIG 7.4):

While continuing to support the downlight insert, install mounting clips through the trim housing slots to engage the ceiling/pan/IC housing, 3 clips for round, 4 clips for square. Locate each clip's notch and use the corner of a flathead screw driver to push the clips into place.

Ceiling thickness ranges:

4PR, 4PS, 6PR, 6PS: clip # 70740053 (3) round, (4) square

- Bottom slot: 1/2"–7/8"
- Middle slot: 7/8"–1-1/4"
- Top slot: 1-1/4"–1-5/8"

4AR, 6AR: 1/2"–7/8" (clip # 70740051 (3) each)

FIG 7.3 MOUNTING CLIP SLOT LOCATIONS

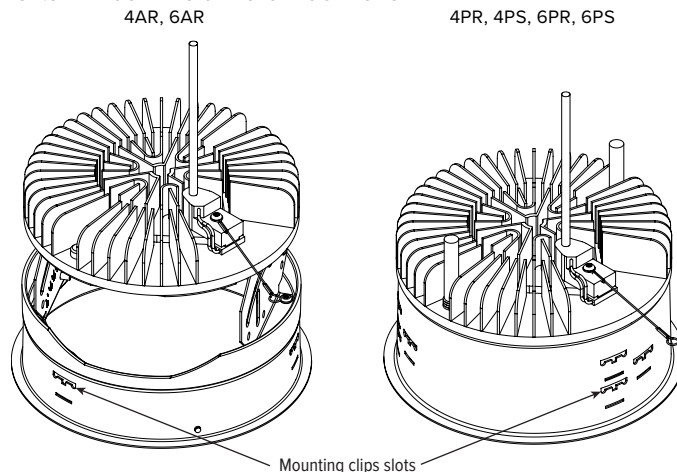
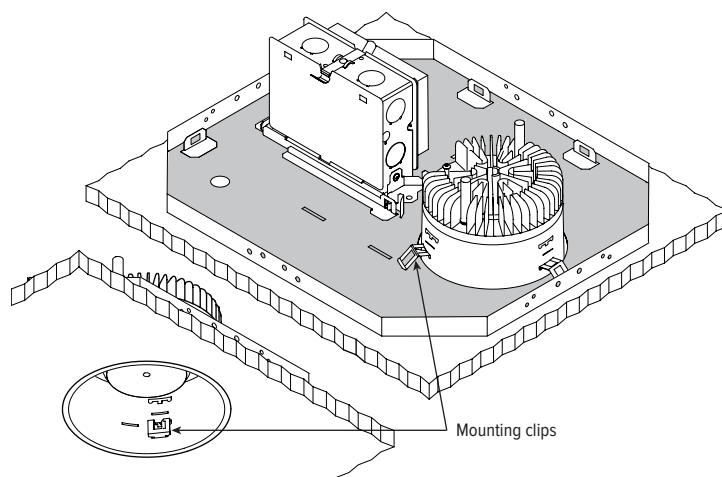


FIG 7.4 MOUNTING CLIP. New construction shown. Remodel has no pan.



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INSTALLATION INSTRUCTIONS

UNIVERSAL TILT AND ROTATION ADJUSTMENT

FOR USE WITH 4AR, 6AR

STEP 8: Adjust fixture aiming angles.

- A. Loosen the rotation angle adjustment screws (3) and rotate optical assembly to desired direction. (see FIG 8.1)
- B. Rotate tilt adjustment screw to aim beam to achieve desired effect. (see FIG 8.1 – FIG 8.2)
- C. Fine tune both adjustments then tighten rotation angle adjustment screws.

NOTE: Tilt angle indicator visible inside throat of fixture. (see FIG 8.3)

FIG 8.1

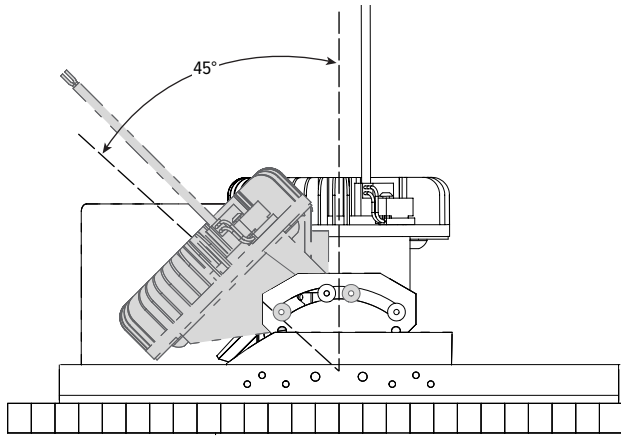


FIG 8.2

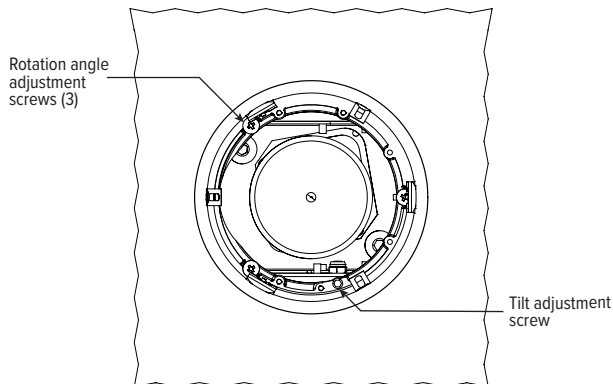
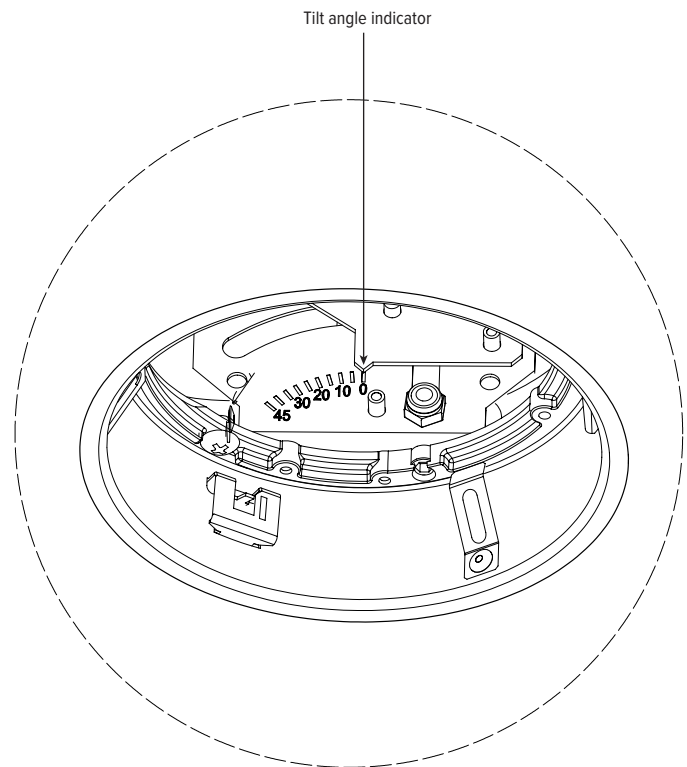


FIG 8.3



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INSTALLATION INSTRUCTIONS

TRIM INSTALLATION

STEP 9: Install trim.

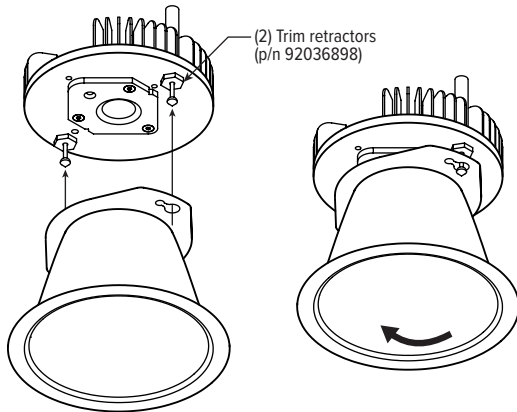
TRIMLOCK® INSTALLATION

FOR USE WITH 4DR, 6DR, 4PR, 6PR

- A. Align reflector with keyhole slots, then twist reflector. See FIG 9.1

NOTE: The trim housing (see FIG 9.3) has alignment features that will guide the reflector.

FIG 9.1



- B. Pull reflector downward until audible click is heard, then release. See FIG 9.2 – FIG 9.3

FIG 9.2

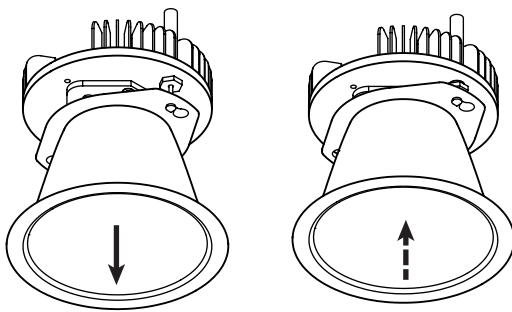
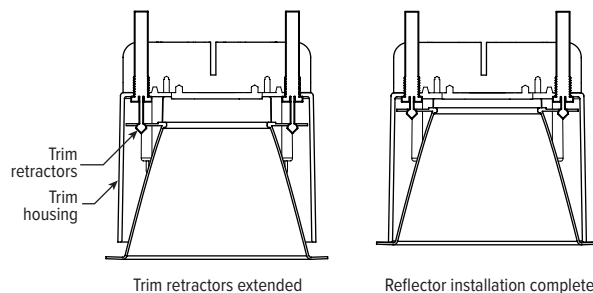


FIG 9.3



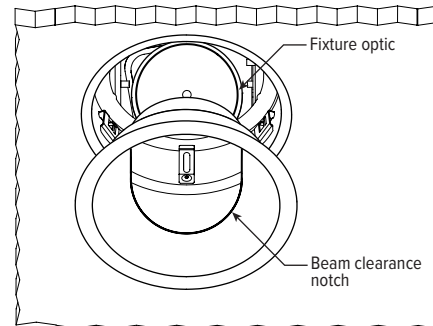
- C. For reflector removal, work the process in reverse.

ADJUSTABLE REFLECTOR INSTALLATION FIG 9.4

FOR USE WITH 4AR & 6AR

- A. Align beam clearance notch with fixture optic.
B. Insert reflector assembly into fixture until flush with ceiling to engage retention springs.

FIG 9.4



RETENTION SPRING REFLECTOR INSTALLATION See FIG 9.5

FOR USE WITH 4DS, 6DS, 4PS, 6PS

- A. Insert reflector assembly into fixture until flush with ceiling to engage retention springs.

FIG 9.5

