2"/3" DOWNLIGHT LED INSTALLATION INSTRUCTION
(REMODEL/NEW CONSTRUCTION)

RISK OF FIRE AND ELECTRICAL SHOCK. FIXTURE MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN ONLY IN ACCORDANCE WITH NATIONAL, LOCAL BUILDING AND ELECTRICAL CODES. DISCONNECT POWER AT ELECTRICAL PANEL BEFORE SERVICING.

IMPORTANT SAFETY INSTRUCTIONS

1. Read all instructions completely before beginning. Keep these instructions in safe place for future reference.
2. To reduce risk of fire and over-heating, make sure all connections are tight.
3. Turn off the electrical power before proceeding.

CAUTION: RISK OF FIRE OR ELECTRIC SHOCK

LED downlight installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified person.

WARNING - RISK OF FIRE OR ELECTRIC SHOCK. LED downlight installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.

WARNING - Install these downlights only in housing that has the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the LED downlight does not exceed the input rating of the housing.

WARNING - To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

Do not make or alter any open holes in an enclosure of wiring or electrical components during installation.

Please examine all parts that are not intended to be replaced by the LED downlight for damage and replace any damaged parts prior to installation of the LED downlight.

NEW CONSTRUCTION

List:

1.LED Engine
2.New Construction-Housing Insulation Kit(IC)or New Construction-Frame Kit (NON-IC)
3.Trim or Trimless or Wood Ceiling Ring

REMODEL

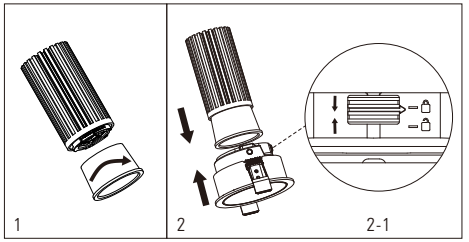
List:

1.LED Engine
2.LED Driver Box(Remodel)
3.Trim or Trimless or Wood Ceiling Ring

WHEN TRIM, LENS AND LED ENGINE ARE SEPARATED, ASSEMBLE THEM BY THE FOLLOWING STEPS:

1. Assemble Lens And LED Engine:
   Attached together, and secure them tight with clockwise direction.

2. Assemble Lens And Trim:
   Slide the button downward in the trim direction to combine the lens and trim. Once aligned, slide it upward to lock into place (See 2-1).



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OPENING SIZE REFERENCE

Table (A)

Trim Style	Opening Size Reference
2inch Round Trim	Φ 2-1/4" (Round Hole)
2inch Round Trimless ⚠ Install from Above. Service from Above.	Φ 3-1/2" (Round Hole)
3inch Round Trim	Φ 3" (Round Hole)
3inch Round Trimless	Φ 3-1/2" (Round Hole)
3inch Square Trim	3"×2-7/8" (Rectangle Hole)
3inch Square Trimless	3-1/2"×3-5/16" (Square Hole)

Table (B)

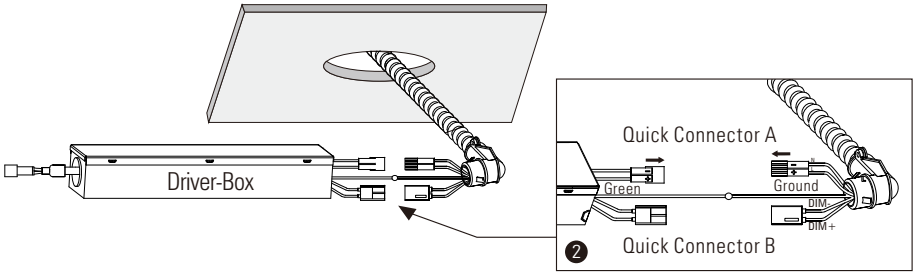
Style	POCKET (Large Hole)	THRU-HOLE (Small Hole)	Thickness of around small Thru-Hole	Thickness of ceeling
2 inch Round	> Ø3"	Ø 2-1/16"	1/4in	1/8in-1in
3inch Round	> Ø3"	Ø 2-11/16"	1/4in	1/8in-1in
3 inch Square	> 3"×3"	2-11/16" × 2-11/16"	1/4in	1/8in-1in

INSTALLATION - REMODEL APPLICATIONS

DRIVER CONNECTION

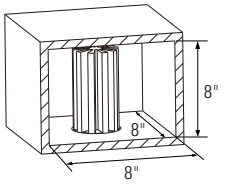
Step 1: Drill hole in the ceiling. See opening size reference (See Table A).

Step 2: Plug AC power cord into the quick connector A. (Only if the driver has 0-10V dimming, the quick connector B needs to be connected.) Plug the male connector with the female connector. Connect the ground wire ❷ . For Trimless installation, refer to Diagram B.

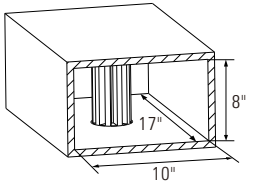


MOUNTING SPACE REQUIRED

Up to 10W: Min 8"×8"×8"



Up to 19W: Min 17"×10"×8"



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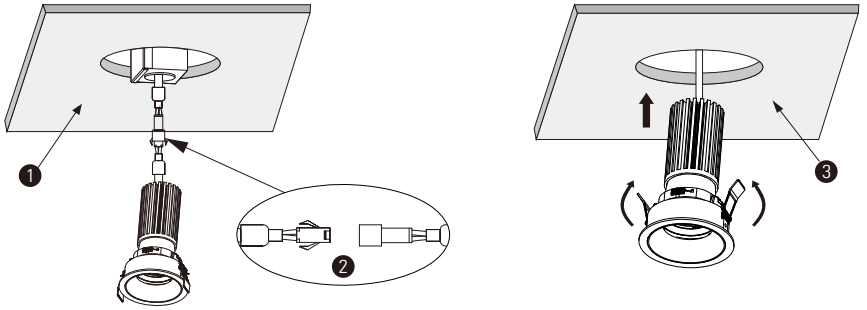
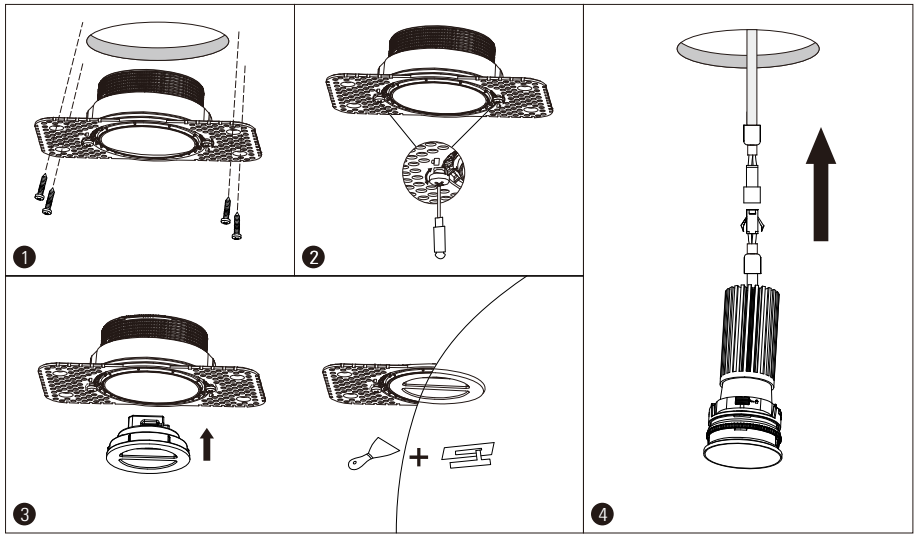
ENGINE INSTALLATION FOR TRIM

Step 1: The driver box is fixed to the ceiling by magnetic force of a magnet ❶ .
Step 2: Connect the male and female connectors of the downlight and attach the safety cable ❷.
Step 3: Complete installation by carefully tighten the spring clips through the ceiling opening ❸ .



ENGINE INSTALLATION FOR TRIMLESS

1.The driver box is fixed to the ceiling by magnetic force of a magnet
2.Secure the outer ring to the ceiling with screws ❶.
3.Rotate the inner ring to set the desired height. Use a screwdriver to tighten the screws on both sides (Clockwise) to fix the inner ring in place ❷.
4.Install the dust cover and apply plaster for a seamless finish ❸.
5.After connecting the male and female connectors and securing the safety cable, place the downlight into the ceiling and tighten it in place ❹.



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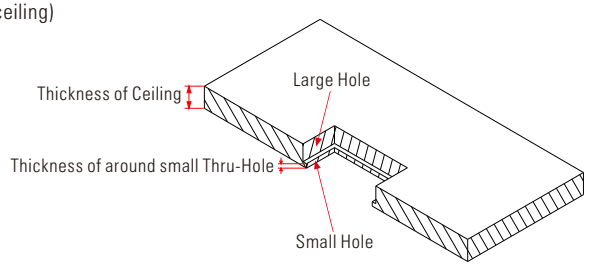
ENGINE INSTALLATION FOR WOOD CEILING

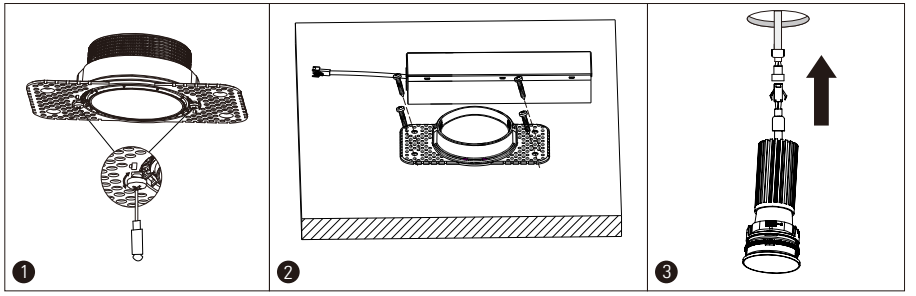
Wood Ceiling Cutout (The size is as per the table B)

1. Ceiling needs to be prepared with a larger hole cut above a smaller hole to create the trimless effect.
2. One method is to cut the larger hole in the ceiling and the smaller hole in laminate and place the laminate over the hole on the ceiling.
3. Another method is to cut the smaller hole and create the larger space above it using a router.
4. Thickness of material around small Thru-Hole must be 1/4 Inch.
5. If thickness of ceiling than more 1in, Material of lighting around need expurgate to 1in.(Applicable only for: remodel wood ceiling)



INSTALLATION

1. Adjust according to the ceiling thickness with reference to the scale on the inner ring, then use a screwdriver to tighten it clockwise ❶.
2. Align with the ceiling opening, insert the downlight, and lock it in place with KA4×8 screws ❷.
3. After connecting the male and female connectors and securing the safety cable, place the downlight into the ceiling and tighten it in place ❸.



INSTALLATION - NEW CONSTRUCTION APPLICATIONS

DRIVER CONNECTION

Step 1: Locate fixture position. Install the fixture in the ceiling using the two hanger bars ❶ (Supplied) . Mount the fixture in the ceiling so that the weight of the fixture is supported by the hanger bars, mounting channel, bar, and/or hanger wires secured to the building structure.

Step 2: Open the J-box ❷ ❸, connect the power supply and ground wire according to the wiring diagram. (Only if the driver has 0-10V dimming, the dimming wire needs to be connected).

Step 3: After the ceiling is installed, drill the holes. The size is as per the table (A) ❹.

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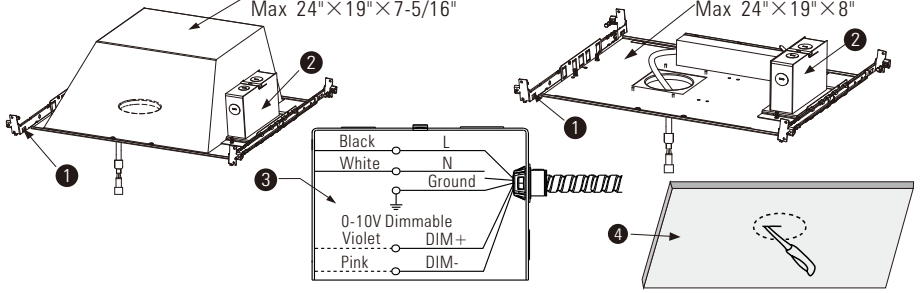
IC HOUSING INSATLLATION

Option 1: Housing Insallation Kit (IC)
Install from Above

Mounting Space Required
Housing Insallation Kit (IC)
Min 14"×19"×7-5/16"
Max 24"×19"×7-5/16"



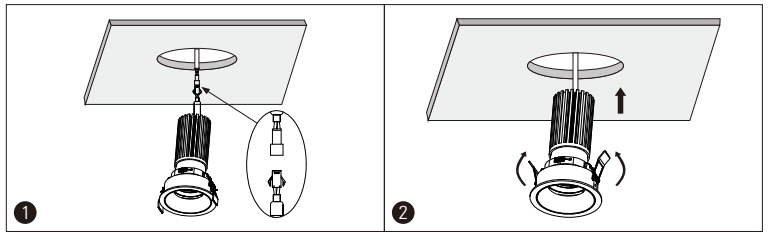
NON-IC FRAME KIT INSATLLATION

Option 2: Frame Kit (NON-IC)
Install from Above

Mounting Space Required
Frame Kit (NON-IC)
Min 14"×19"×8"
Max 24"×19"×8"

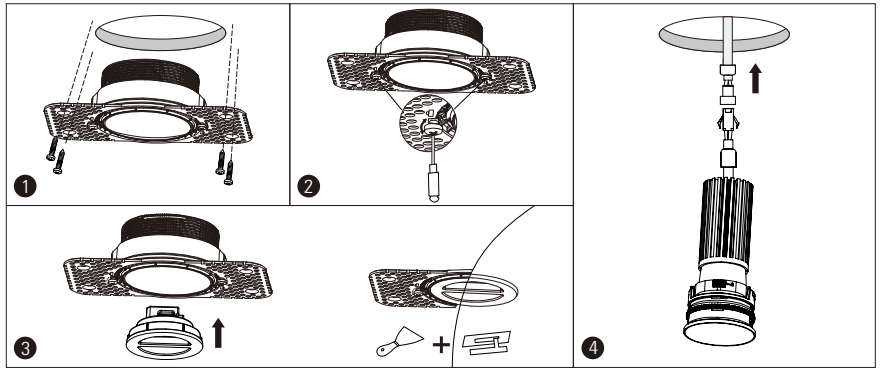
ENGINE INSTALLATION FOR TRIM

Step 1: Connect LED downlight with housing using provided quick-connectors ❶.
Step 2: Complete installation by carefully tighten the spring clips through the ceiling opening ❷.



ENGINE INSTALLATION FOR TRIMLESS

1. Secure the outer ring to the ceiling with screws ❶.
2. Rotate the inner ring to set the desired height. Use a screwdriver to tighten the screws on both sides (Clockwise) to fix the inner ring in place ❷.
3. Install the dust cover and apply plaster for a seamless finish ❸.



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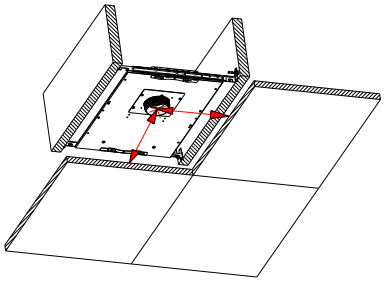
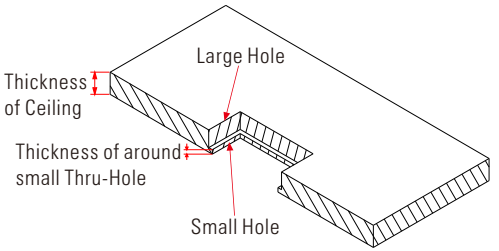
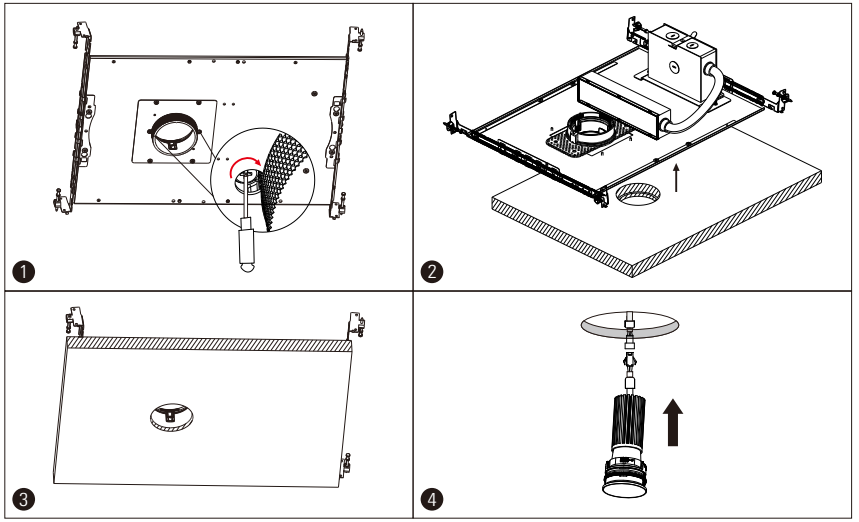




INSTALLATION

1. Measure and mark the required center opening position with the edge of the ceiling as a reference.
2. Use a screwdriver to adjust the height of the inner ring according to the thickness of the ceiling, then tighten the two screws clockwise ❶.
3. Fine-tune the bracket to the proper position, align the downlight with the opening, and then cover the ceiling ❷ ❸.
4. Wiring and tuck the downlight into the ceiling ❹.



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