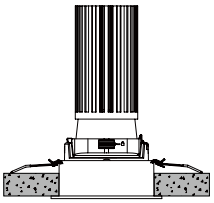
Installation Instructions

Commercial Mini Downlight

MDDL Series





WARNING Risk of Fire and Electric Shock.
The luminaire must be installed by a qualified electrician in accordance with applicable federal, state, and local laws and codes. Installation requires knowledge of luminaire electrical systems and installer should be familiar with the operation of this product. If not qualified, do not attempt installation; contact a qualified electrician. Manufacturer assumes no responsibility for the improper installation of this luminaire. When installing the fixture, drilling may damage luminaire wiring and electrical parts. Check for wiring and components in enclosure before drilling. Turn OFF power before installation or attempting any maintenance.

To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. When installing this kit, drilling may damage luminaire wiring and electrical parts. Check for wiring and components in enclosure before drilling.



WARNING Risk of Burn.
Disconnect power and allow fixture to cool before handling or servicing.



WARNING Risk of Personal Injury.
Wear gloves or proper handling protection to prevent cuts or abrasions when handling and maintaining this product. This equipment may have sharp edges. To reduce the risk of death, personal injury or property damage from fire, electric shock, falling parts, cuts/abrasions, and other hazards read all warning and instructions included with and on the fixture box and all fixture labels.
Avoid direct eye exposure to the light source while it is on.



DO NOT
TOUCH LED

NOTICE
- Green ground screw provided in proper location. Do not relocate.
- Minimum 90°C supply conductors.
- Suitable for Dry or Damp location.
- Specifications and dimensions subject to change without notice.

Contact manufacturer with any questions or concerns regarding installation of this luminaire.

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Installation Instructions
Commercial Mini Downlight

A: Important Information

Table A: Cutout dimensions for reference

Trim Style	Cutout dimensions
2" Round trim	ϕ 2-1/4"
2" Round trimless	ϕ 3-1/2"
3" Round trim	ϕ 3"
3" Round trimless	ϕ 3-1/2"
3" Square trim	3" x 2-7/8"
3" Square trimless	3-1/2" x 3-5/16"

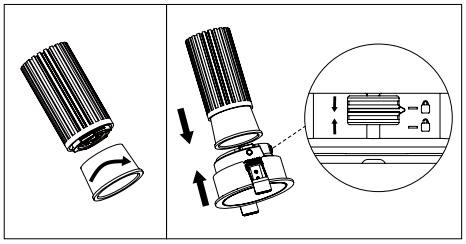
Table B: Dimension requires for trimless install to wood ceiling

Trimless Style	POCKET (Large Hole)	THRU-HOLE (Small Hole)	Thickness of around small Thru-Hole	Thickness of ceiling
2" Round	>ϕ 3"	>ϕ 2-1/16"	1/4"	1/8" - 1"
3" Round	>ϕ 3"	>ϕ 2-1/16"	1/4"	1/8" - 1"
3" Square	> 3"x3"	2-11/16"x2-11/16"	1/4"	1/8" - 1"

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.

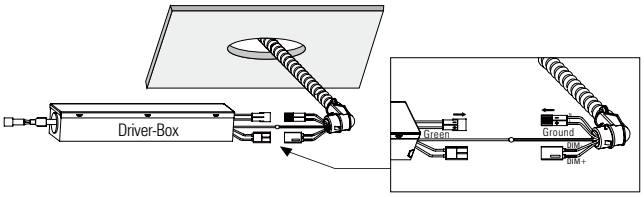


B: Remodel applications

a. DRIVER CONNECTION

1. Drill hole in the ceiling (Dimension according to Table A).

2. Connect the power supply and ground wire according to the wiring diagram.

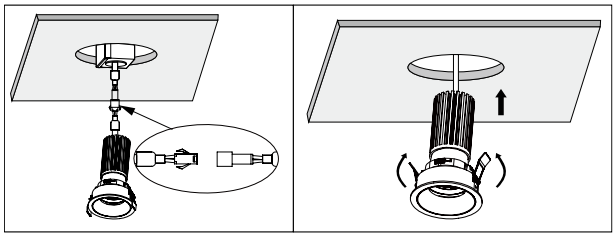


b. ENGINE INSTALLATION WITH TRIM

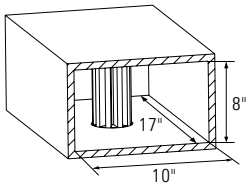
1. The driver box is fixed to the ceiling by magnetic force of a magnet.

2. Connect the male and female connectors and attached the safety cable.

3. Complete installation by carefully tighten the spring clips through the ceiling opening.



Mounting space required



c. ENGINE INSTALLATION TRIMLESS FOR DRYWALL

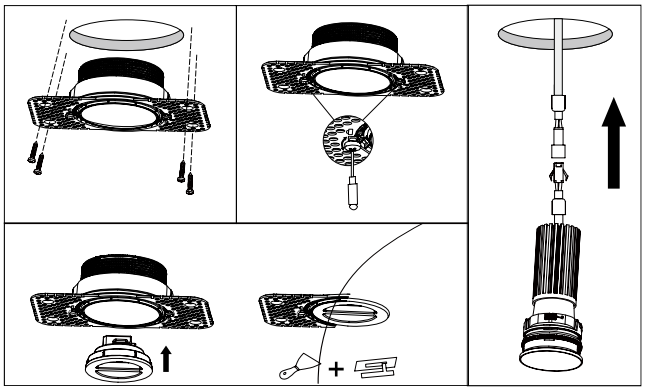
1. The driver box is fixed to the ceiling by magnetic force of a magnet.

2. Secure the outer ring to the ceiling with screws.

3. Rotae the inner ring to set the desired height. Use a screwdriver to tighten the screws on both sides to fix the inner ring in place.

4. Install the dust cover and apply plaster for a seamless finish.

5. Connect the male and female connectors and attached the safety cable, and then place the engine into the ceiling and tighten it in place.



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Installation Instructions
Commercial Mini Downlight

d. ENGINE INSTALLATION TRIMLESS FOR WOOD CEILING

1) Wood ceiling cutout (The dimensiosn accroding to Tabel B)

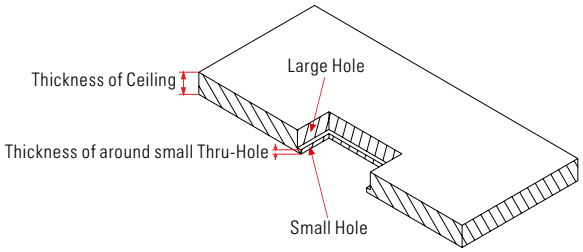
1. Ceiling need to be prepared with a larger hole to create the trimless effect.

2. One method is to cut the larger hole in the ceiling and the smaller hole in laminate and place the fixture 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".

5. If the ceiling thickness exceeds 1", the material around the fixture needs to be cut to within 1" (Only for remodeled wood ceiling).

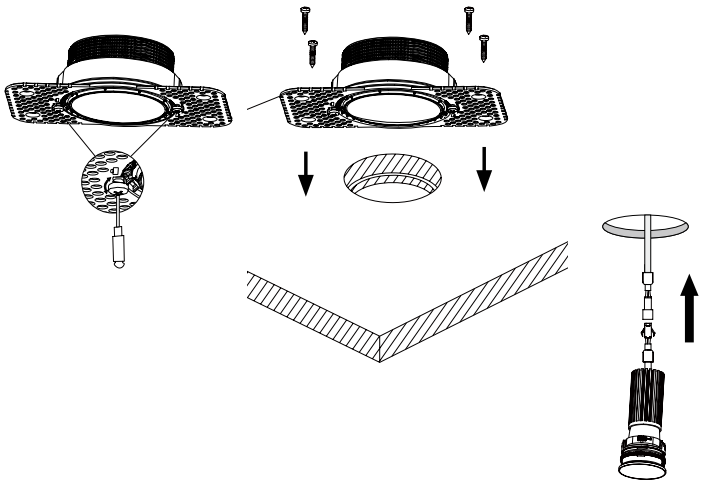


2) Inatallation

1. Adjust the height (1/8" - 1") of the inner ring accroding to the ceiling thickness, then tighten two screw clockwise with a screwdriver.

2. Align the trimless plate with the center of the cutout from the back side of the ceiling, and secure it with KA4x8 screws.

3. Connect the male and female connectors and attached the safety cable, and then place the engine into the ceiling and tighten it in place.



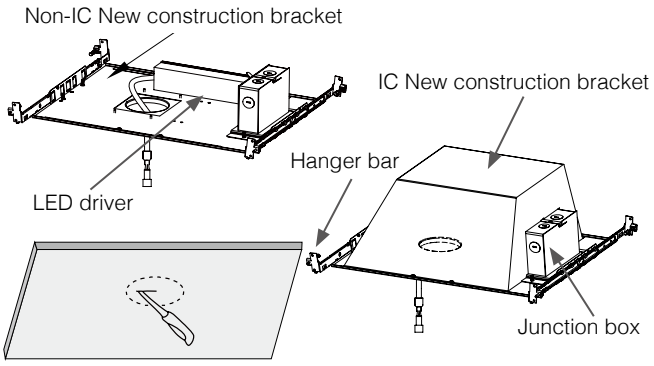
C: New Construction applications

a. DRIVER CONNECTION AND HOUSING INSTALLATION

1. Install the housing in the ceiling using the two hanger bars. Mount the housing in the ceiling so that the weight of the housing is supported by the hanger bars, mounting channel, bar, and /or hanger wires secured to the building structure.

2. Open the J-box, connect the power supply and ground wire according to the wiring diagram.

3. Drill the hole in the ceiling.
(Dimension according to Table A)



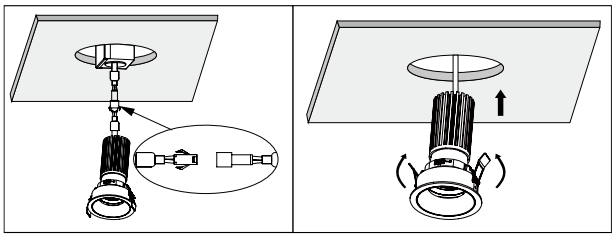
Mounting Space Required (LxWxH)

Non-IC New construction bracket	IC New construction bracket
Min 14"x19"x8"	Min 14"x19"x7-5/16"
Max 24"x19"x8"	Max 24"x19"x7-5/16"

b. ENGINE INSTALLATION WITH TRIM

1. Connect the male and female connectors and attached the safety cable.

2. Complete installation by carefully tighten the spring clips through the ceiling opening.



c. ENGINE INSTALLATION TRIMLESS FOR DRYWALL

1. Secure the outer ring to the ceiling with screws.

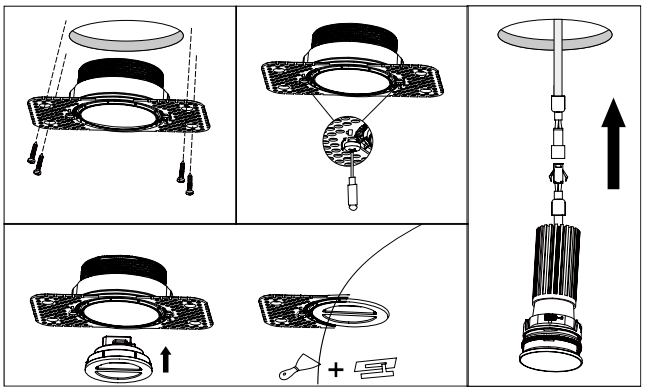
2. Rotae the inner ring to set the desired height. Use a screwdriver to tighten the screws on both sides to fix the inner ring in place.

3. Install the dust cover and apply plaster for a seamless finish.

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Installation Instructions
Commercial Mini Downlight

4. Connect the male and female connectors and attached the safety cable, and then place the engine into the ceiling and tighten it in place.



d. ENGINE INSTALLATION TRIMLESS FOR WOOD CEILING

1) Wood ceiling cutout (The dimensiosn accroding to Tabel B)

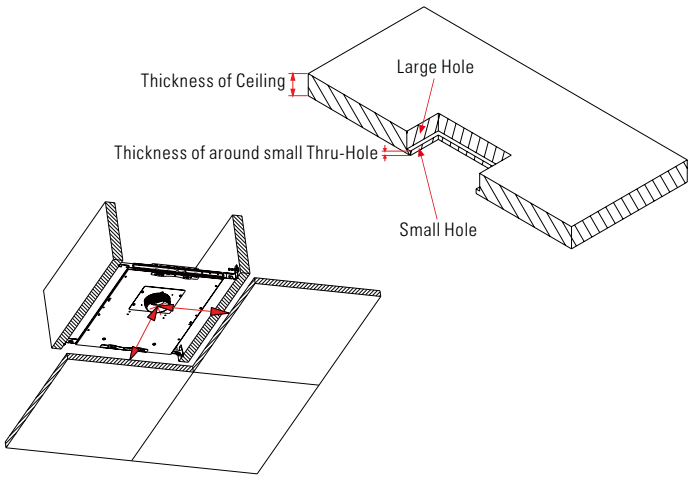
1. Ceiling need to be prepared with a larger hole to create the trimless effect.

2. One method is to cut the larger hole in the ceiling and the smaller hole in laminate and place the fixture 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".

5. If the ceiling thickness exceeds 1", the material around the fixture needs to be cut to within 1" (Only for remodeled wood ceiling).

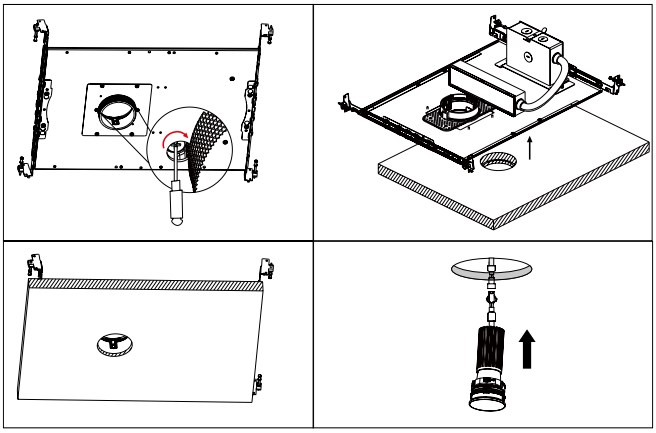


2) Inatallation

1. Adjust the height (1/8" - 1") of the inner ring accroding to the ceiling thickness, then tighten two screw clockwise with a screwdriver.

2. Fine-tune the bracket to the proper position, align the knonckout with the opening, and then cover the ceiling.

3. Connect the male and female connectors and attached the safety cable, and then place the engine into the ceiling and tighten it in place.



Wiring Diagram:

