

# INSTALLATION INSTRUCTIONS | O2 Mini Adjustable Recessed Multiples: RDA4L Series

**Note:** Before attempting installation please refer to your local electrical code.

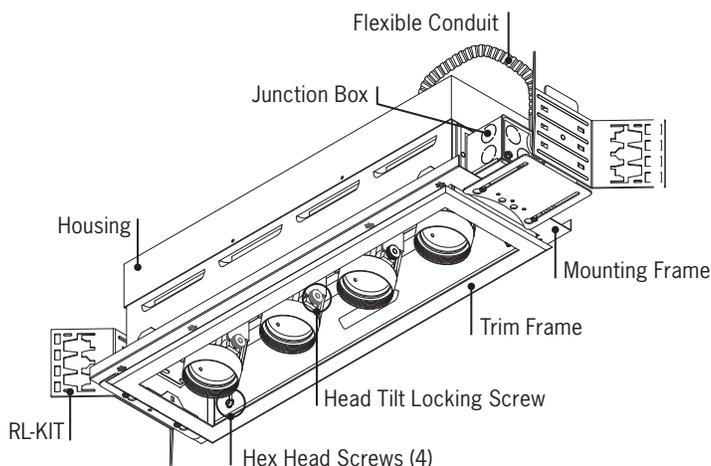
## IMPORTANT SAFETY INSTRUCTIONS:

- Read Instructions before installation; **save these instructions for later use**
- Product should be installed by a Qualified Electrician.
- All electrical connections must be in accordance with local and National Electrical Code (NEC) standards. If you are unfamiliar with proper electrical wiring connections, obtain the services of a qualified electrician.
- Before starting the installation, disconnect the power by turning off the circuit breaker or by removing the appropriate fuse at the fuse box. Turning the power off at the light switch is not sufficient to prevent electrical shock.
- Product must be grounded to avoid potential electric shock and any other potential hazards.
- Product must be mounted in locations and at heights and in a manner consistent with its intended use, and in compliance with National Electrical Code and local codes. Use of accessory equipment is not recommended.
- Do not block light from the trim aperture, in whole or in part, as this may cause unsafe conditions. Do not install closer than 6" from any curtain or similar combustible material.
- Do not mount near gas or electric heaters.
- Equipment should be mounted in locations and at heights where it will not readily be subject to tampering by unauthorized personnel.
- **WARNING: RISK OF SHOCK**
  - Turn off the power at fuse or circuit breaker box before installation or maintenance work.
  - Wear rubber soled shoes and work on a sturdy wooden or non-conductive ladder.
  - Ground the fixture to avoid potential electric shocks and to ensure reliable starting.
  - Double check all connections, making sure they are tight and correct.
- **WARNING: RISK OF FIRE**
  - Most dwellings built before 1985 have supply wire rated at 60°C
  - Supply conductors (power wires) connecting the fixture must be rated at minimum of 90°C
  - Consult a qualified electrician before installation
- Installing contrary to instructions may cause unsafe conditions.
- If the product has any visible damage do not install it.
- Avoid hazards to children: account for all parts and properly dispose of all packing materials.
- Call the Technical Support department at ConTech Lighting with any installation questions: 847.559.5500.

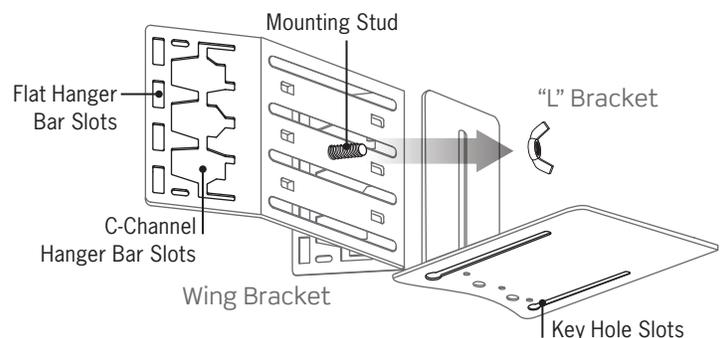
## INSTALLATION

1. Carefully remove packing inserts and slim inner carton containing the trim frame
2. Locate the Hex Key (tightens Hex Head Screws that secure housing to Mounting Frame) and Head Tilt Locking Screw
3. Assemble RL-KIT:
  - Select "L" Bracket with the longer base plate. Attach to short end of Mounting Frame with Junction Box by fitting keyhole slots in Bracket over the Set Screws in Mounting Plate. Adjust to desired length, tighten screws. Repeat with remaining bracket on opposite end of Mounting Frame.

- Mount the Wing-style Brackets to the "L" Brackets with the open end facing out. Pass Mounting Stud through Bracket slot, secure with Wing Nut and Washer provided.
- Narrow Slots in the Wing-style Bracket accept Flat Hanger Bars (HB-24), C-Shaped openings accept C-Channel Hanger Bars (HBC-24). C-Shaped openings may also be used for 1/2-inch conduit.
- Vertical slots in brackets allow a 3-inch overall height adjustment. Desired Housing position is for the Mounting Frame Lip to be even with the finished ceiling. Firmly tighten the Wing Nut.



## RL-KIT



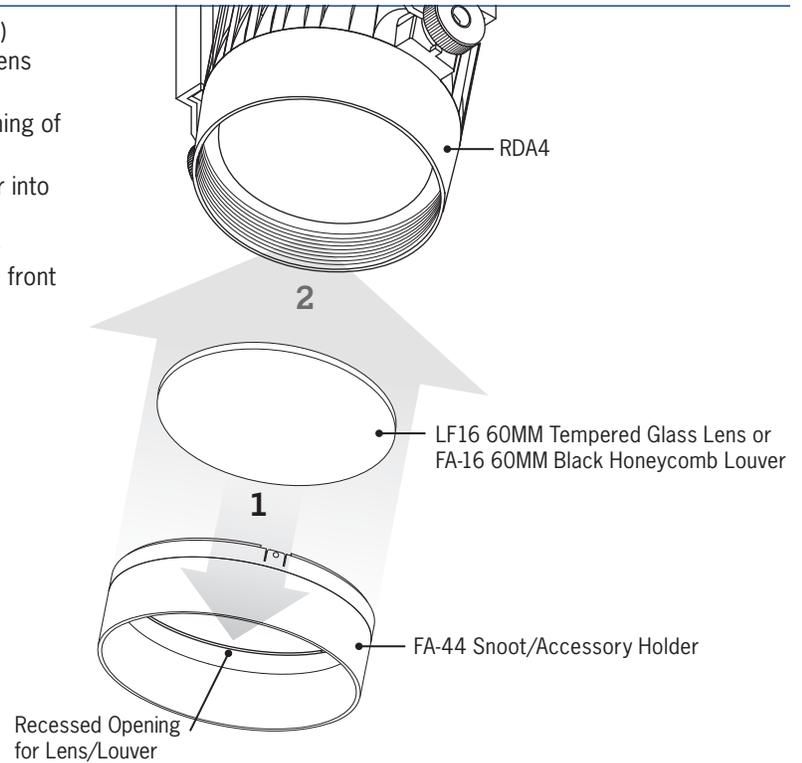
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### INSTALLATION

Optional FA-44 Snoot/Accessory Holder accepts up to two (2) LF16 60MM Tempered Glass Lenses or one (1) LF16 60MM Lens plus one (1) FA-16 60MM Black Honeycomb Louver

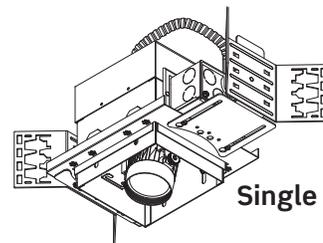
1. Place LF20 Tempered Glass Lens/Louver in recessed opening of Snoot/Accessory Holder (if installing a Lens or Louver)
2. Push Snoot/Accessory Holder with optional Lens or Louver into fixture until fully seated within the Bezel; **Snoot is not designed to be installed and removed multiple times**
3. Ensure Head is aimed and securely locked in place and the front Bezel on the head is twisted fully to the right and secure



### INSTALLATION: SINGLE HEAD REMODEL UNIT

#### DO NOT PLACE ANY INSULATION MATERIAL WITHIN THREE INCHES OF THE HOUSING

1. Ensure ceiling material is strong enough to support the fixture
2. Locate the Hex Key and remove the four (4) Hex Screws located inside the Housing
3. Remove Housing from Mounting Frame
4. Disengage Fixture Head by removing Screw inside top of housing. Pull down Head and Driver to allow access to the Junction Box
5. Remove two (2) Junction Box Nuts inside Housing and remove Junction Box from Housing
6. Insert Housing through ceiling cutout and set aside
7. Make electrical connections per appropriate wiring diagram, based upon dimming option being installed (pg. 3)
8. Reinstall Junction Box to Housing
9. Reinstall Fixture Head to Housing
10. Insert Mounting Frame through ceiling opening and set in place
11. Place Housing into Mounting Frame and reinstall the four (4) Hex Screws to secure Housing to Frame
12. Continue to Trim Installation



Single Head Luminaire = 5lbs

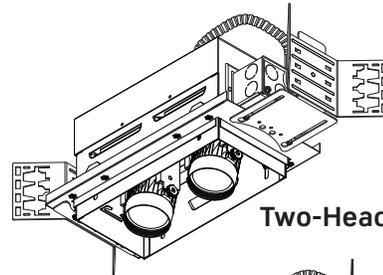
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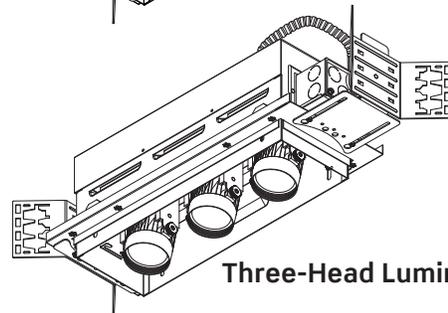
### INSTALLATION: 2-, 3- AND 4-HEAD UNITS, AND 2X2 4-HEAD REMODEL UNITS

#### **DO NOT PLACE ANY INSULATION MATERIAL WITHIN THREE INCHES OF THE HOUSING**

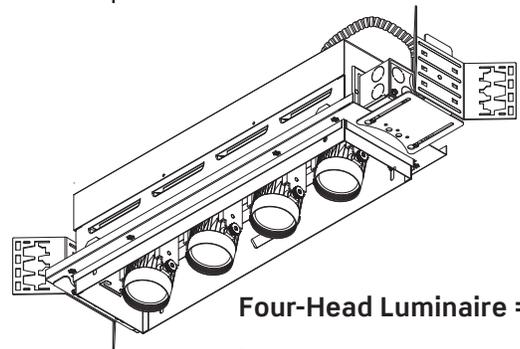
1. Ensure ceiling material is strong enough to support the fixture
2. Locate the Hex Key and remove the four (4) Hex Screws located inside the Housing
3. Remove Housing from Mounting Frame
4. Insert Housing through ceiling cutout and set aside
5. Make electrical connections per appropriate wiring diagram, based upon dimming option being installed (pg. 3)
6. Insert Mounting Frame through ceiling opening and set in place
7. Place Housing into Mounting Frame and reinstall the four (4) Hex Screws to secure Housing to Frame
8. Continue to Trim Installation



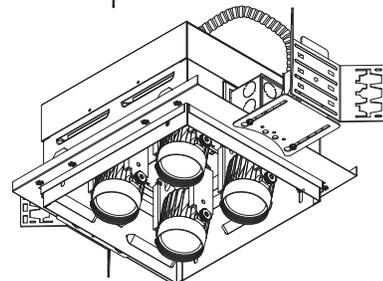
**Two-Head Luminaire = 8lbs**



**Three-Head Luminaire = 11lbs**



**Four-Head Luminaire = 13lbs**



**2x2 Four-Head Luminaire = 13lbs**

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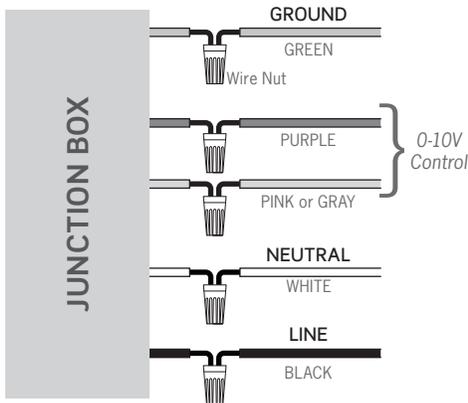
## INSTALLATION, CONT.

- The RDA4L housing is pre-wired. Power must only be brought to the Junction Box on the Housing. Maximum of eight (8) No. 12 AWG Through Branch Circuit Conductor suitable for 75°C permitted in Box.
- Ensure each Head is aimed and securely locked in place with Thumb Screw, and the Font Bezel on each Head is twisted fully to the right and secure.

**WARNING:** Power source must conform to requirements of the Luminaire (see labels on luminaire), all NEC and Local Electrical Codes. Before starting wire connections, disconnect power at circuit breaker or fuse, turning power off at switch leg is not sufficient to prevent electrical shock. Make Junction Box connections per appropriate wiring diagram, based upon dimming option being installed. Close Junction Box cover after wiring (ensure that all wires are within box before closing).

### WIRING DIAGRAM 1

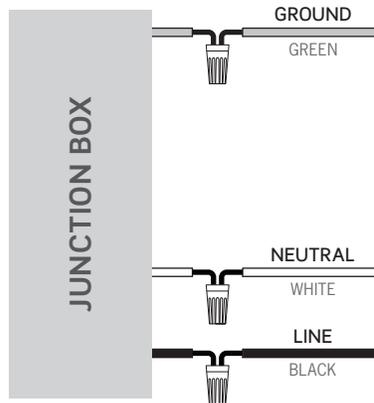
**DIMMING OPTIONS:** 12D, 27D  
**ELECTRICAL:** 120V or 277V  
**DIMMING:** TRIAC, ELV and 0-10V



- TRIAC or ELV Dimming requires Purple and Pink/Gray wires to be capped
- When dimming with 0-10V, Class 1 wiring (300V wiring inside conduit) is required; consult factory for additional details

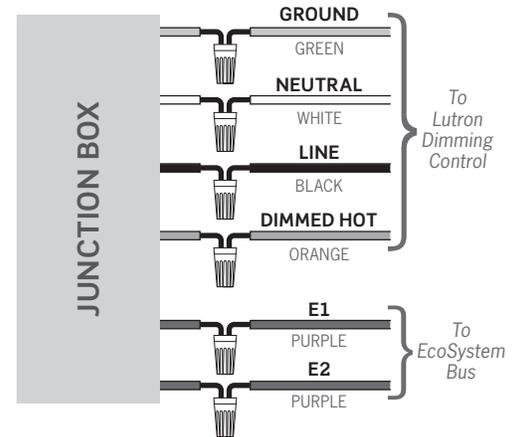
### WIRING DIAGRAM 2

**DIMMING OPTIONS:** 12D3  
**ELECTRICAL:** 120V Only  
**DIMMING:** Lutron Hi-lume



### WIRING DIAGRAM 3

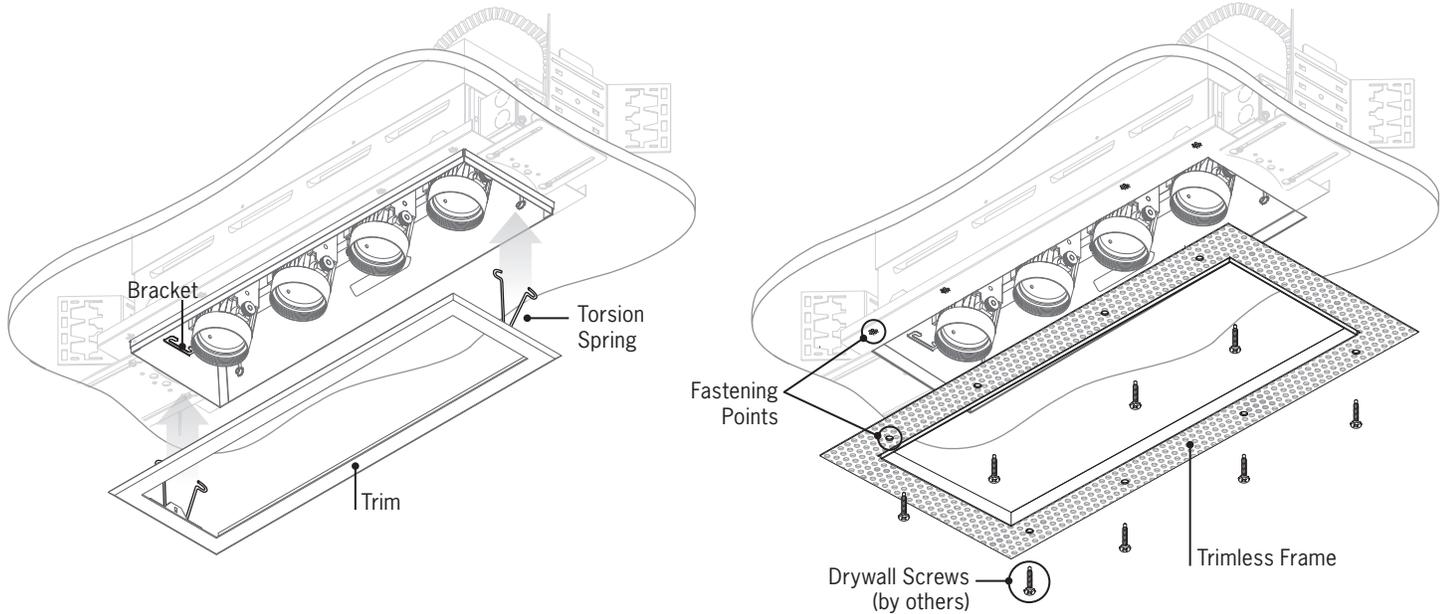
**DIMMING OPTIONS:** 12D4, 27D4  
**ELECTRICAL:** 120V or 277V  
**DIMMING:** Lutron Hi-lume EcoSystem



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## TRIM INSTALLATION



### • TRIMMED:

- Squeeze Torsion Springs on Trim and insert them into Brackets located inside of Housing
- Push Trim upward until it seats firmly against the ceiling

### • TRIMLESS:

- Dry wall material should be cut closely to size, any space between dry wall material and the plaster frame may be filled with compound
- Plaster ceilings should be finished to plaster frame that extends down from the Mounting Plate
- Housing Mounting Frame and Trimless Frame each contain eight (8) matching fastening points for secure retention in ceiling
- Using #6 Drywall Screws (supplied by others), fasten the Trimless Frame to the drywall and Housing Mounting Frame
- Once secured, joint compound can be applied

## DRIVER REPLACEMENT

**NOTE:** LED Driver should be replaced by a qualified electrician. Turn off power at fuse or circuit breaker box before replacing the LED Driver.

1. Remove fixture head by removing screw inside top of housing. Pull down head and driver and disconnect wiring (note wiring configuration to aid installation of new driver).
2. Replace driver being careful to wire new driver in same fashion as old driver.
3. Reinstall fixture head.

