

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

INSULATED and NON-INSULATED CEILING APPLICATIONS

- The RN2ASQRM Remodel Version, all series, can NOT be installed in direct contact with insulation. Do not install insulation within 3" of fixture sides or wiring compartment, nor above fixture in such a manner to entrap heat.
- The RN2ASQNC New Construction version, all series, can be installed in direct contact with insulation.

REMODEL TYPE INSTALLATION PROCEDURES:

- Ensure you have the proper location for the housing. The flexible electrical cable above the ceiling needs to be in close proximity to the hole that will be cut in the ceiling for easy access.
- The RN2ASQRM module requires a precision fit with the gypsum ceiling opening. This opening needs to be a square of 4-1/8" x 4-1/8". It is highly recommended that ceiling opening be accurate to ensure a secure installation.
- Once the ceiling opening has been created, the mud frame can then be installed. It's important to note, the deep side of the mud frame collar gets inserted up into the ceiling, so the shallow side is room facing (Figure 1). Self-drilling screws will not be required.
- ConTech STRONGLY recommends using four 1/8" toggle bolts, 2" minimum length (supplied by others) to secure mud frame to gypsum board, as the mud frame will support the fixture. Create the smallest holes possible to allow the toggles to pass through, to maintain the integrity of the ceiling.
- Joint compound can now be applied to ceiling and mud frame
- After finish coat paint has been applied to ceiling, ensure inner groove in mud frame is clear from excess joint compound and paint, so housing and reflector will seat properly.
- Pull flexible cable through ceiling opening of mud frame to wire housing.
- Make all electrical connections (See "Electrical Connection").
- Insert remote junction box through ceiling opening, while maintaining low voltage harness and seismic tether accessible from below the ceiling opening.
- Plug in low voltage harness from the remote junction box and connect the seismic tether to the corresponding connections on the Universal Module.
- Push Universal Module through the hole in the mud frame until it snaps into a fully seated position. The module is held securely in place with spring and ball detents located in the mud frame.
- **NOTE:** Direction of adjustability should be identified, then careful consideration of orientation during installation will aid in aiming.
- Module tilt adjustment can be performed using a finger.
- See Trim Installation.

NEW CONSTRUCTION TYPE INSTALLATION PROCEDURES

- RN2ASQNC New Construction housing can be installed in direct contact with insulation.
- Install hanger bars to RN2ASQNC mounting frame; ensure end tab is facing outward.
- Extend bar hangers to fit between joists and position fixture by hammering nail on bars into the joists. Hangers should be level with bottom of the joists.
- If housing square aperture is slightly out of desired position, minor adjustments can be made by loosening the two wing nuts located on the top of the housing frame. (Figure 2). Once aperture is in position, the wing nuts should be securely tightened so aperture cannot be moved out of position.
- Make all necessary electrical connections (See "Electrical Connection")
- When gypsum ceiling material is installed, verify that the mounting frame opening location is identified.
- Using a rotary type cutting tool, plunge tool bit into ceiling and through mounting frame opening. Using the mounting frame opening as a guide, cut an opening along outer perimeter of return flange on housing. If the cut isn't exact, it's ok. The mud frame will cover it.
- Once the ceiling opening has been created, the mud frame can then be installed. It's important to note, the deep side of the mud frame collar gets inserted up into the ceiling, so the shallow side is room facing (Figure 1).
- Align mud frame with mounting frame return flange.
- Using the four (4) self-drilling screws provided, drive them through the holes in the mud frame and up through the mounting frame above the ceiling.
- Joint compound can now be applied to ceiling and mud frame.
- After finish coat paint has been applied to ceiling, ensure inner groove in mud frame is clear from excess joint compound and paint, so module and reflector will seat properly.
- Locate the electrical cable in the mounting frame and pull it through the ceiling opening.
- Plug in low voltage harness from the remote junction box and connect the seismic tether to the corresponding connections on the Universal Module.
- Push Universal Module through the hole in the mud frame until it snaps into a fully seated position. The module is held securely in place with spring and ball detents located in the mud frame.

NOTE: Direction of adjustability should be identified, then careful consideration of orientation during installation will aid in aiming.

- Module tilt adjustment can be performed using a finger.
- · See Trim Installation.



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

ELECTRICAL CONNECTION - REMODEL:

- Local electrical codes should be consulted to determine acceptable installation: conduit, Romex or flexible metal cable.
- Remove the two screws on the junction box cover to allow wiring (RN2ASQRM)
- A convenience 2-in-1 duplex connector is provided if daisy-chaining housings is desired. The duplex connector must be installed in the knockout located opposite the pre-wired low voltage harness. (Figure 3).
- Follow Wiring Diagram 1 for electrical/dimming options 12D and 27D. Triac dimming is not available for 27D, 277V option. Follow Wiring Diagram 3 for electrical /dimming options 12D4 and 27D4. (Wiring Diagrams - Page 4)
- Ensure all wires are safely within junction box. Close junction box and reinstall screws.

TRIM INSTALLATION:

- Trims are held securely in place with friction springs. Simply push reflector into housing until it sits flush with the ceiling.
- NOTE: Slant cut reflectors should be aligned with adjustability of Universal Module for best performance.

REMODEL (RN2ASQRM) UNIVERSAL MODULE REMOVAL AND LED 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 • Pull trim straight down out of Universal Module.
- Pull straight down on Universal Module.
- Carefully pull remote driver box through the ceiling opening.
- Remove driver cover. (Figure 3).
- Disconnect LED driver from line voltage input wiring in J-Box. Open up the LED driver enclosure and disconnect the LED driver from the LED leads (leads are terminated by crimp connectors).
- Reinstall factory approved LED driver by reversing above procedure.

NEW CONSTRUCTION (RN2ASQNC) HOUSING REMOVAL AND LED DRIVER REPLACEMENT – MVD:

- **NOTE:** LED Driver should be replaced by a qualified electrician. Turn off power at fuse or circuit breaker box before replacing the LED Driver
- NOTE: The following instructions are for below ceiling access of RN2ASQNCxMVD housings, if above ceiling access is available refer to 12D3/MVD4/MVD6/MVD7/MVD8 instructions.
- Pull trim straight down out of housing.
- Pull straight down on Universal Module.
- Remove smaller driver box, clipped to inside of housing, and pull through ceiling opening. (Figure 5)
- Remove driver cover. (Figure 3)
- Disconnect LED driver from line voltage input wiring in J-Box. Open up the LED driver enclosure and disconnect the LED driver from the LED leads (leads are terminated by crimp connectors).
- Reinstall factory approved LED driver by reversing above procedure.

NEW CONSTRUCTION (RN2ASQNC) HOUSING REMOVAL AND LED DRIVER REPLACEMENT - 12D3/MVD4/MVD6/MVD7/MVD8:

NOTE: LED Driver should be replaced by a qualified electrician. Turn off power at fuse or circuit breaker box before replacing the LED Driver NOTE: Drivers, 12D3/MVD4/MVD6/MVD7/MVD8 dimming options, require

above ceiling access for service and driver replacement.

- Remove the top cover of the NC housing (4 screws).
- Remove two wingnuts on driver mount plate. (Figure 4)
- Disconnect LED driver from line voltage input wiring in J-Box and disconnect the LED driver from the LED leads (leads are terminated by crimp connectors).
- Remove driver from driver mount plate and note orientation. (Figure 4)
- Reinstall factory approved LED driver by reversing above procedure.

IMPORTANT SAFETY INSTRUCTIONS:

- Read all the instructions before installation. Save instructions for later use.
 Turn off power at fuse or circuit breaker box before installation or before doing any maintenance work.
- 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.
- Installing contrary to instructions may cause unsafe conditions.
- Do not block light from the trim aperture, in whole or in part, as this may cause unsafe conditions.
- Warning: Risk of fire. Most dwellings built before 1985 have supply wire rated at 60°C. Consult a qualified electrician before installation.
- 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.

WARRANTY:

• Energy Star products are covered for three (3) years by a full replacement guarantee after date of installation. In addition, ConTech LED products carry a five (5) year limited warranty from date of purchase.



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

FIGURE 1

The deep side of the mud frame collar gets inserted up into the ceiling, so the shallow side is room facing. Self-drilling screws will not be required.

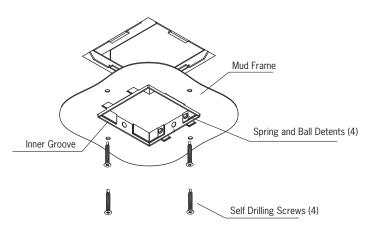


FIGURE 2

If housing square aperture is slightly out of desired position, minor adjustments can be made by loosening the two wing nuts located on the top of the housing frame.

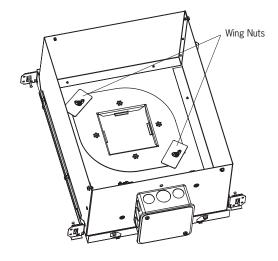
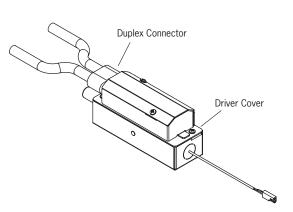


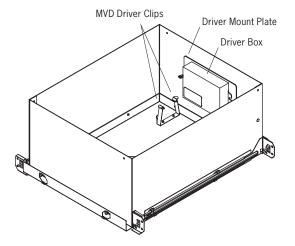
FIGURE 3

A convenient 2-in-1 duplex connector is provided if daisy-chaining housings is desired. The duplex connector must be installed in the knockout located opposite the pre-wired low voltage harness.

FIGURE 4

Smaller driver box, clipped to inside of housing.







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

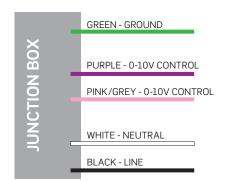
WIRING DIAGRAMS

DIAGRAM 1

DIAGRAM 2



120V or 277V Electrical/Dimming (Triac, ELV & 0-10V) Triac and ELV Require Purple and Pink/Grey wires to be capped





12D3 Option

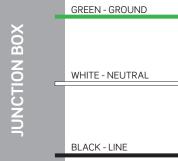


DIAGRAM 3

MVD4, 12D4 and 27D4 Options

120V or 277V Lutron EcoSystem® Dimming

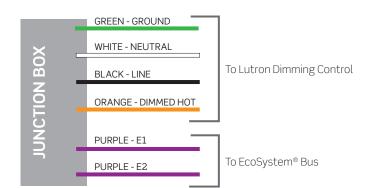


DIAGRAM 4

MVD7 and MVD9 Options 120V or 277V Electrical/Dimming (DALI)

