

# Installation Instructions

\*\*\*URGENT: READ PRIOR TO ATTEMPTING INSTALLATION\*\*\*

## RECESSED LIGHTING - NLR-409 SERIES REMODEL HOUSINGS

ALWAYS TURN OFF MAIN POWER BEFORE INSTALLATION

Item#	Description	Rating
NLR-409AT	4" SQ REMOD, MAG AT HOUSING	50W
NLR-409AT/1EL	4" SQ REMOD, ELE AT HOUSING	50W

INSTALLATION SHOULD BE CARRIED OUT BY YOUR LOCAL ELECTRICIAN.

### FIRE/ELECTRICAL HAZARD: INSTALL ACCORDING TO NATIONAL ELECTRIC CODE AND ANY APPLICABLE MUNICIPAL CODE REQUIREMENTS.

This equipment is intended to be installed only by qualified personnel. The installation must be made in accordance with the current edition to the National Electric Code and all applicable state and local building codes. The final installation must be approved by the appropriate qualified electrical/building inspector(s). Improper installation may result in a fire or electrical hazard. Be sure the electrical power to the circuit has been disconnected before installing this electrical system.

For ballast replacement, a qualified electrician can replace the ballast without the cutting of wires. For additional details, contact technical support at 800.686.6672.

### WARNING - RISK OF FIRE:

Most dwellings built before 1985 have supply wire rated 60 degrees Celsius (thermal cutoffs in fixtures operate at 90 degrees Celsius); consult a qualified electrician prior to installation. If supply wires are located within three inches of ballast, use wire rated for at least 90°.

A qualified electrician can replace this ballast without cutting wires. Contact technical support at 1-800-686-6672 for additional details.

### ELECTRICAL CONNECTIONS:

- Cut out aperture (template included) into existing sheet rock ceiling. (Fig. 1)
- Pull conduit with line voltage, neutral, and ground leads through opening.
- Remove junction box door.
- Remove pryout for 1/2" or 3/4" conduit.
- Affix conduit or junction box using appropriate connector (not included).  
If using Romex, simply push past cable lock - no additional connector is required.
- Connect wiring from power source to fixture wiring:  
Black - Black/Red; White - White; Green - Bare Copper/Green  
Use standard connectors (not included). (Fig. 2)

- Feed-through wiring: Other conduit paths may connect to junction box utilizing the other outlets on the junction box. Use the additional knockouts to pull through 12AWG wire, splicing to fixture wiring as noted above.  
Note: Wiring and connections must conform to National Electric Code and all local or municipal code requirements.

- Snap junction box door into place.

**NOTE ON GROUNDING:** Many structures carry grounding via steel conduit. If this is the case, if there is no grounding wire, simply leave green wire on fixture unattached. Fixture will be grounded through attachment of conduit to junction box. However, if Romex or PVC conduit is used, ground wire will always be present, and must be connected to green wire on fixture junction box to avoid electrical shock hazard.

### FIXTURE MOUNTING

- To install fixture, simply insert into ceiling opening, starting with the junction box, finally pushing housing straight up into place. (Fig. 3)
- Push ceiling springs out of fixture until flat surface of spring is flush with interior of housing.
- Using a screwdriver, force the small tab at the top of the spring up as tightly as possible against the housing wall to lock fixture into place. (Fig. 4)

