

# Installation Instructions

## NHIC Series

### IC Air-Tight LED Dedicated New Construction Housing

**READ PRIOR TO ATTEMPTING INSTALLATION**  
**ALWAYS TURN OFF MAIN POWER BEFORE INSTALLATION**  
**INSTALLATION SHOULD BE CARRIED OUT BY YOUR LOCAL ELECTRICIAN**

**⚠ IMPORTANT** - This equipment is intended to be installed only by qualified personnel. The installation must be made in accordance with the current edition of the National Electrical 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.

**⚠ IMPORTANT** - Cet équipement est destiné à être installé uniquement par du personnel qualifié. L'installation doit être faite conformément à l'édition actuelle du Code national de l'électricité et à tous les codes de construction locaux et nationaux applicables. L'installation finale doit être approuvée par un ou plusieurs inspecteurs qualifiés en électricité / bâtiment. Une installation incorrecte peut entraîner un incendie ou un risque électrique. Assurez-vous que l'alimentation électrique du circuit a été déconnectée avant d'installer ce système électrique.

Fixtures are listed for insulated ceilings—Type IC, airtight—AT and for suspended ceilings—Type S. To insure safe and reliable operations, make sure the fixture corresponds to the proper ceiling installation. Read the following material carefully before beginning installation.

In general these instructions apply to "round" housings. Drawings of "round" housings have been used to illustrate installation procedures.

Before attempting installation of any recessed lighting fixture check your local electrical code. This code sets the wiring standards for your locality and should be carefully studied before starting work.

#### INSULATED CEILINGS - TYPE IC

Insulated Ceiling

The insulated ceiling or IC approved recessed fixture is one that can be installed in direct contact with insulation.

#### SUSPENDED CEILINGS - TYPE S

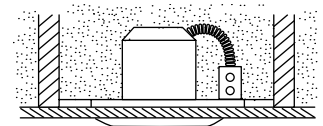
Fixture can be installed in suspended ceilings that are not permanent or insulated.

#### AIRTIGHT INSTALLATION

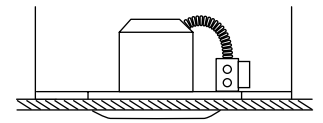
Nora housings certified under ASTM E283 are supplied with a pre-installed gasket or supplied with a ready-to-install self adhesive gasket.

Step 1. Lay gasket flat and peel protective paper backing from gasket to expose adhesive side.

Step 2. Apply supplied gasket to ceiling lip and wrap gasket around inside of housing to form seal of the ceiling opening or apply caulk per state/local code. When properly installed, Nora housings provide compliance with restricted air-flow regulations.



TYPE IC



TYPE S

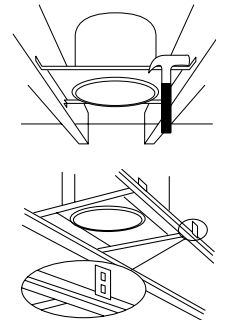
#### TO INSTALL HOUSING:

##### STANDARD "JOIST" CEILINGS:

1. Use bar hangers to attach fixture between ceiling joists. Each end of the bar hanger is equipped with a nail-in barbed tab. Additional hardware such as screws or nails may be used if extra support is necessary.
2. For steel studs, use steel piercing screws in place of nails or barbed tabs.
3. Remove shipping screw from underneath side of plaster frame.

##### T-BAR CEILINGS:

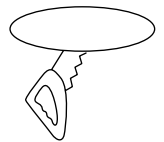
1. If mounting to a T-Bar type ceiling, mount fixture onto grid by placing notches on the bottom of each end of the bar hanger over the grid.
  2. Tie fixture to grid with structural wire going through both the circular knockout on the end of the bar hanger and nearest accompanying knockout on the ceiling grid.
- NOTE: It is imperative to tie down the fixture to prevent the fixture from being pushed above the ceiling during trim installation.



#### CUTTING A HOLE:

##### STANDARD "JOIST" CEILINGS:

1. Locate the center of proposed opening on your tile or ceiling and mark it.
2. Use a compass to draw a circle in diameter around the center point. See Spec Sheet for cut-out dimension.
3. Cut along this circular line.



#### ELECTRICAL CONNECTIONS:

1. Connect 1/2 inch trade size steel conduit to junction box with appropriate fitting. If using Romex-type shielded wiring, use rectangular pry-out strain reliefs located on upper corners of junction box.
2. Connect -
  - Black - Supply Voltage
  - White - Neutral
  - Green Grounding J-Box Wire - Copper or green grounding wire

NOTE: wiring and connections must conform to National Electric Code and all local or municipal code requirements.

(Maximum of 8 no. 12 AWG through branch circuit conductors suitable for at least 90°C permitted in junction box. AC ONLY)

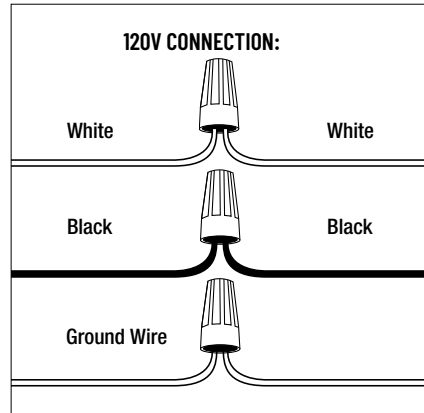
**NOTE ON GROUNDING:** Many structures carry grounding via steel conduit. If this is the case, if there is no grounding wire, simply leave green wire on fixture unattached. Fixture will be grounded through attachment of conduit to junction box. However, if Romex or PVC conduit is used, ground wire will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

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NOTE: SAME CONNECTION FOR 277V WITH COMPATIBLE FIXTURE.

