

Preset Fluorescent Dimmer Installation Instructions *Please Leave for Occupant*

Single Pole/3-Way

120 V~: NF-103P
NTF-103P

277 V~: NF-103P-277
NTF-103P-277

Package Contents

- Single-pole/3-way dimmer
- Mounting screws (2)
- Wire connectors (6)

Important Notes

Please read before installing

- CAUTION:** To reduce the risk of overheating and possible damage to other equipment, do not use to control receptacles, motor-operated appliances, or transformer-supplied appliances.
- This dimmer requires a neutral wire in the wallbox. If a neutral wire is not present, contact a licensed electrician for installation.
- Use with Lutron FDB or ECO Series Electronic Fluorescent Dimming Ballasts ONLY. Do not use with any other ballasts.
- When no "grounding means" exist within the wallbox then the NEC® 2005, Article 404-9 allows a dimmer without a grounding connection to be installed as a replacement, as long as a plastic, noncombustible wallplate is used. For this type of installation, cap or remove the green ground wire on the dimmer and use an appropriate wallplate.

Dimmer Model	Maximum Current*
NF-103P	8 A
NTF-103P	8 A
NF-103P-277	6 A
NTF-103P-277	6 A

* As measured from incoming hot wire (blue) on dimmer. To determine total load on the dimmer circuit, refer to ballast label. Each ballast has an associated input current. Total load is found by adding up all the ballast currents for all ballasts on dimmer.

- Use only the lamp types listed on the label of the ballast. Compact fluorescent lamps must have 4 pins for dimming.
- NF-103P and NTF-103P operate at 120 V~ only. NF-103P-277 and NTF-103P-277 operate at 277 V~ only.
- In multi-phase applications, use a separate neutral for each dimmer circuit. If further information is necessary, contact the **Lutron Technical Support Center** at 1-800-523-9466. Please provide exact model number when calling.
- Do not use two dimmers in the same 3-way circuit.
- Wire the dimmer in accordance with all national and local electrical codes.
- Dimmers are designed to operate in temperatures between 0°C and 40°C (32°F to 104°F).
- The wire connectors provided are suitable for copper wire only. They can be used to join one No. 18, 16, 14, 12, or 10 gauge wire with one or two No. 14 or 12 gauge wires.
- Clean dimmer with a soft damp cloth only.** Do not use any chemical cleaners.

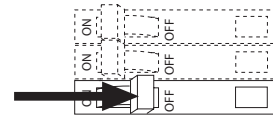
Before Installation

Check new installations for short circuits prior to installation of dimmer by installing a test switch (see wiring diagram on page 3). Turn power on. If lights do not work or if breaker trips, a short is present. Correct the wiring and check the circuit again. Install the dimmer only when a short is no longer present.

Installation

If more than one control is to be installed in the same wallbox, review Multigang Installation before starting.

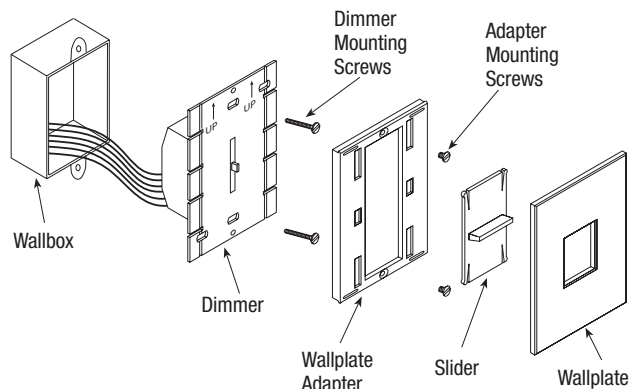
- WARNING:** Turn power OFF at circuit breaker or remove fuse. Wiring with power on may result in personal injury. Damage to product caused by wiring with power on voids warranty.



- Remove wallplate from dimmer. Pull from top of wallplate to remove. Set aside.
- Trim or strip all wires to the proper length:
 - 1/2 in. (13 mm) for 10, 12 and 14 gauge wire
 - 5/8 in. (16 mm) for 16 and 18 gauge wire



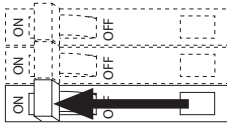
- Use wire connectors to wire dimmer as shown in Wiring Diagrams (pages 3 and 4).
- Push dimmer into wallbox. Do not pinch wires.
- Mount dimmer to wallbox using screws provided.



Nova T[☆] shown.

Note: NF-103P and NF-103P-277 do not have a wallplate adapter.

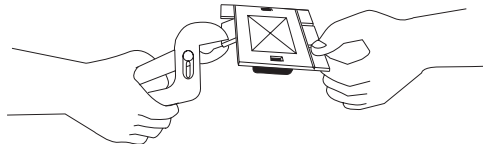
7. Attach slider and snap wallplate on.
8. Turn power ON at circuit breaker or replace fuse.



Multigang Installation

Multiple dimmers can be installed in a common gangable wallbox or a series of interconnected wallboxes for a clean, consolidated appearance. Multigang wallplates are available for such installations. Refer to instruction sheet supplied with multigang wallplates for installation.

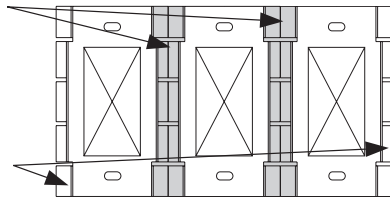
For new installations, dimmers can be ganged without removing side sections. However, to reduce the size of multigang installations or to fit existing wallboxes, inner side sections must be removed (see below).



To remove, break fins along scores using pliers.

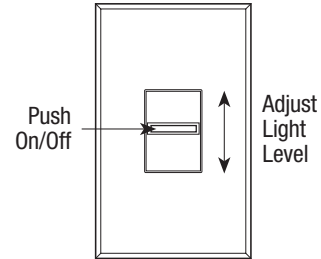
Remove inner side sections only (shaded).

Do not remove outer side sections.



Operation

Push button in the center of slider to turn lights on to level set by the slider. Raise slider to increase light level and lower slider to decrease light level. Push button again to turn lights off. In 3-way applications when switching from a remote location, lights turn on to level set by dimmer's slider. See below.



Lamp Aging

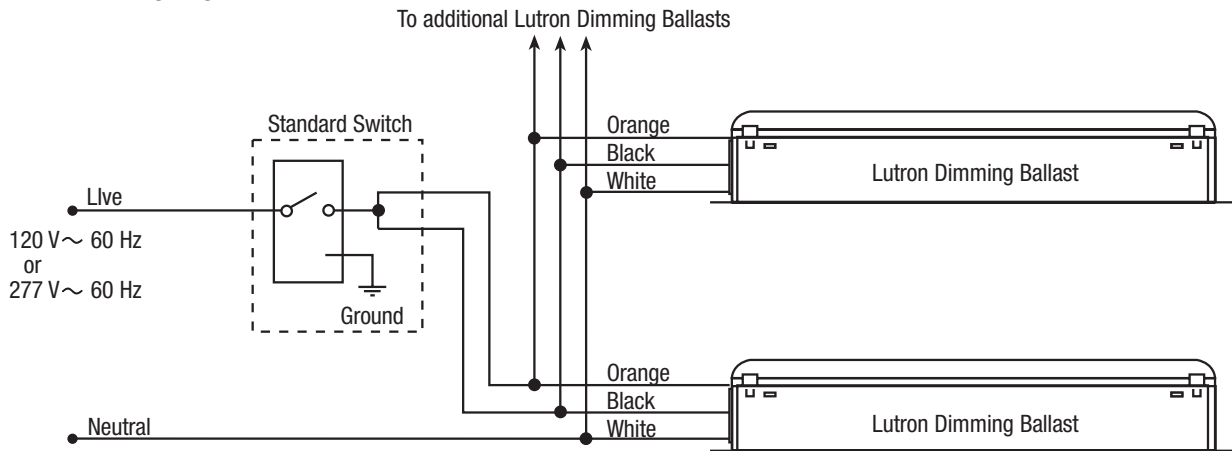
To ensure proper dimming performance and full lamp life, fluorescent lamps must be operated at full intensity for 100 hours prior to dimming.

Minimum Light Level Adjustment

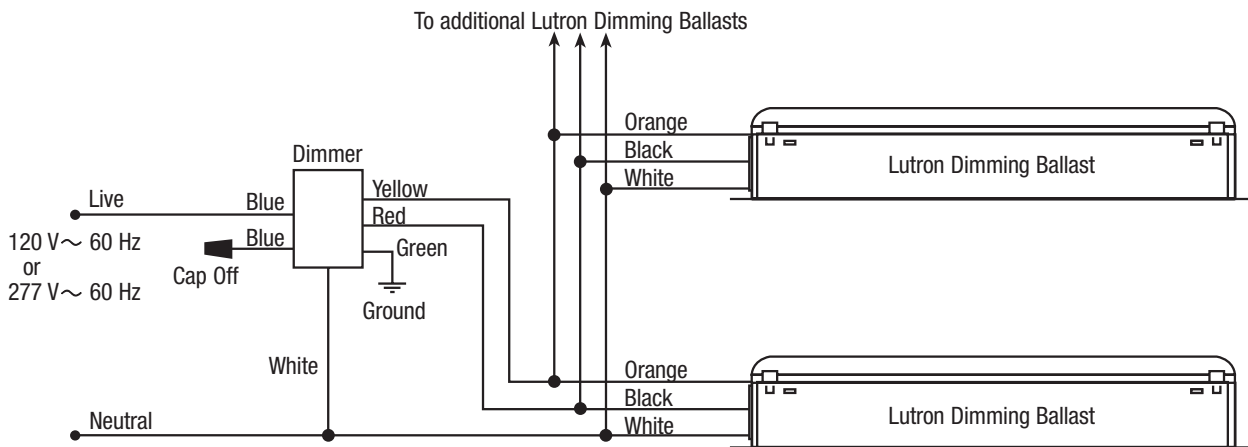
This unit is factory calibrated and does not normally require low-end light level adjustment. If lamps flicker or drop out at the minimum dimming level, there may be an installation error. Continued use of the system in this mode will cause premature lamp failure. If this is occurring, call the **Lutron Technical Support Center** at: 1-800-523-9466. Please provide exact model number when calling.

Wiring Diagrams

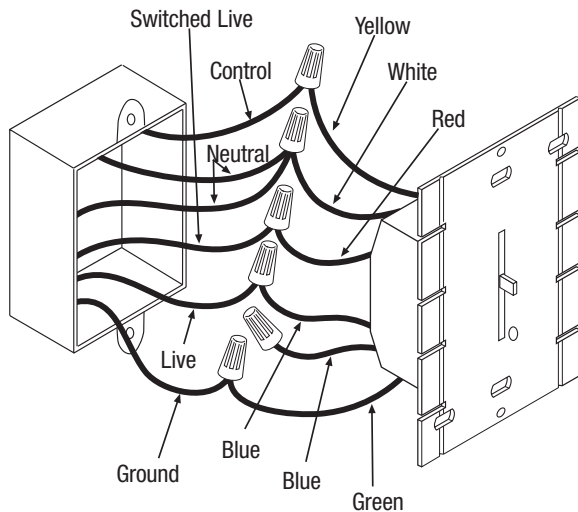
Test Switch Wiring Diagram



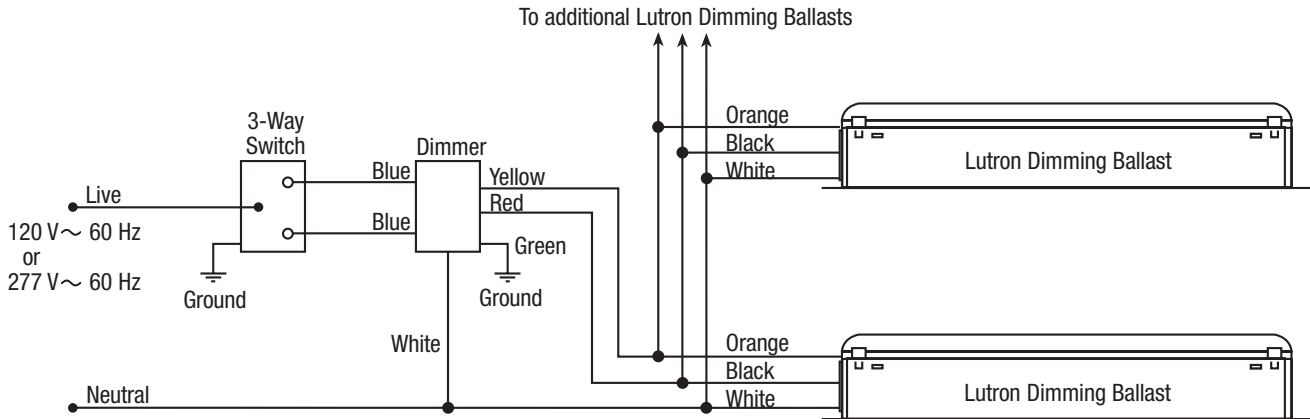
Single Pole Wiring Diagram



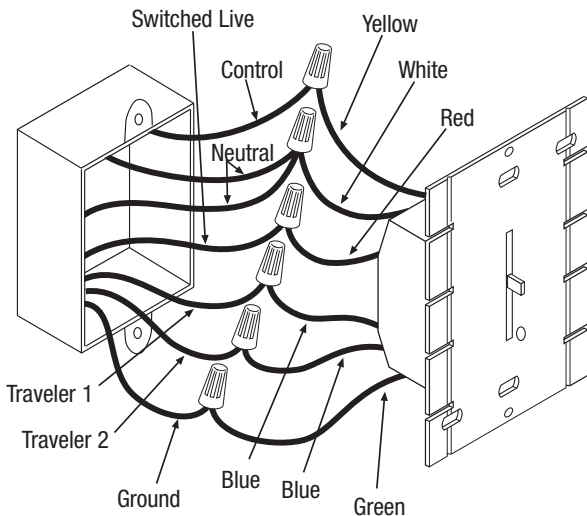
Single Pole Wiring Connections for Nova and Nova T★



3-Way Wiring Diagrams



3-Way Wiring Connections for Nova and Nova T★



Limited Warranty

(Valid only in U.S.A., Canada, Puerto Rico, and the Caribbean.)

Lutron will, at its option, repair or replace any unit that is defective in materials or manufacture within one year after purchase. For warranty service, return unit to place of purchase or mail to Lutron at 7200 Suter Rd., Coopersburg, PA 18036-1299, postage pre-paid.

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Technical Assistance

If you have questions concerning the installation or operation of this product, call the **Lutron Technical Support Center**. Please provide exact model number when calling.

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