

Preset Fluorescent Dimmer Installation Instructions *Please Leave for Occupant*

Single Pole/3-Way

120 V~ 60 Hz 8 A: NF-103P

NTF-103P

277 V~ 60 Hz 6 A: NF-103P-277

NTF-103P-277

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, incandescent lighting fixtures, 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® 3-wire fluorescent ballasts or LED drivers ONLY. Do not use with any other ballasts. For LED loads, please see the "Report Cards" at www.lutron.com/hilumeled for proper loading of the dimmer.
 - When no "grounding means" exists within the wallbox for an existing switch or dimmer, the 2011 National Electrical Code (NEC®) allows a switch/dimmer to be installed as a replacement as long as 1) a nonmetallic, noncombustible faceplate is used with nonmetallic attachment screws or 2) the circuit is protected by a ground fault circuit interrupter. The 2008 NEC® has the same allowances but does not contain the requirement for nonmetallic attachment screws. When installing a switch/dimmer according to any of these methods, cap or remove the green wire before screwing the switch/dimmer into the wallbox.
- | 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 32 and 104 °F (0 and 40 °C).
 - The wire connectors provided are suitable for copper wire only. They can be used to join one 18 to 10 AWG (0.75 to 4.0 mm²) wire with one or two 14 or 12 AWG (1.5 or 2.5 mm²) wires.
 - Clean dimmer with a soft damp cloth only.** Do not use any chemical cleaners.

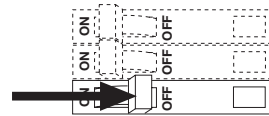
Before Installation

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.

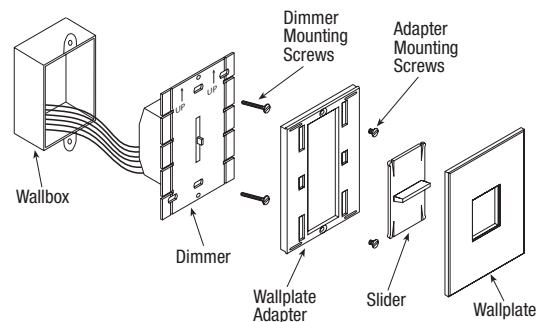
Installation

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

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



- Remove faceplate from dimmer. Pull from top of faceplate to remove. Set aside.
 - Trim or strip all wires to the proper length:
 - ½ in (13 mm) for 10 to 14 AWG (4.0 to 1.5 mm²) wire
 - ⅝ in (16 mm) for 16 and 18 AWG (1.0 and 0.75 mm²) 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.

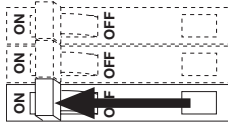


Nova T[☆] shown.

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



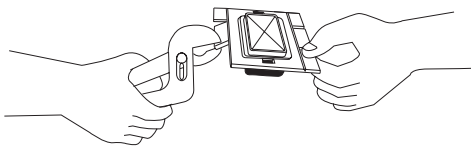
7. Attach slider and snap wallplate on.
8. Turn power ON at circuit breaker or replace fuse.



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.

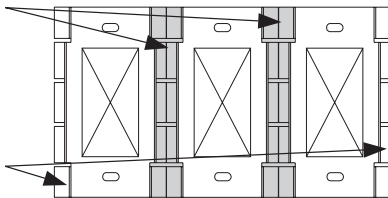
For new installations, dimmers can be ganged without removing side sections. However, to reduce the size of multigang installations, or to fit existing wallboxes, inner side sections must be removed (see below).



To remove, break fins along scores using pliers.

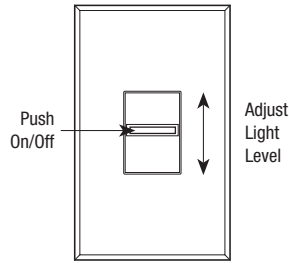
Remove inner side sections only (shaded).

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

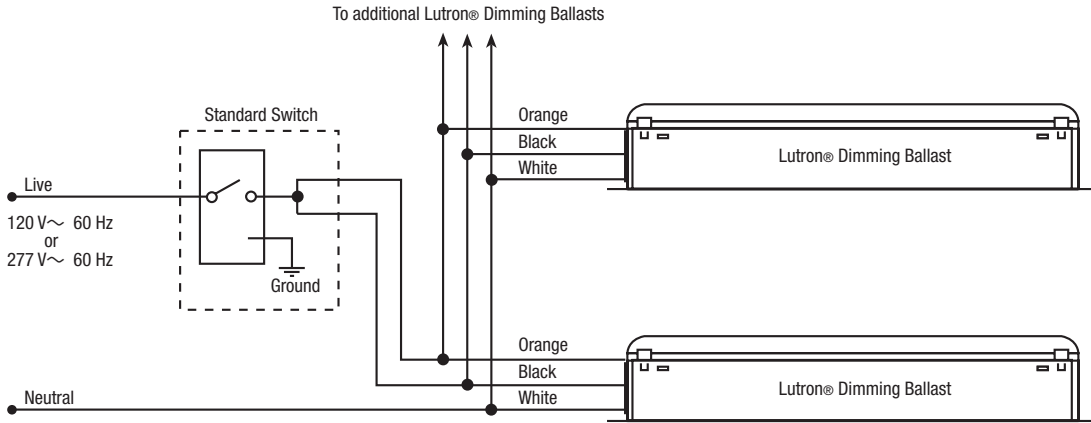
For best dimming performance, fluorescent lamps may need to be operated at full light output for a specified amount of time prior to dimming. Contact the lamp manufacturer for their specific recommendations concerning lamp seasoning.

Minimum Light Level Adjustment

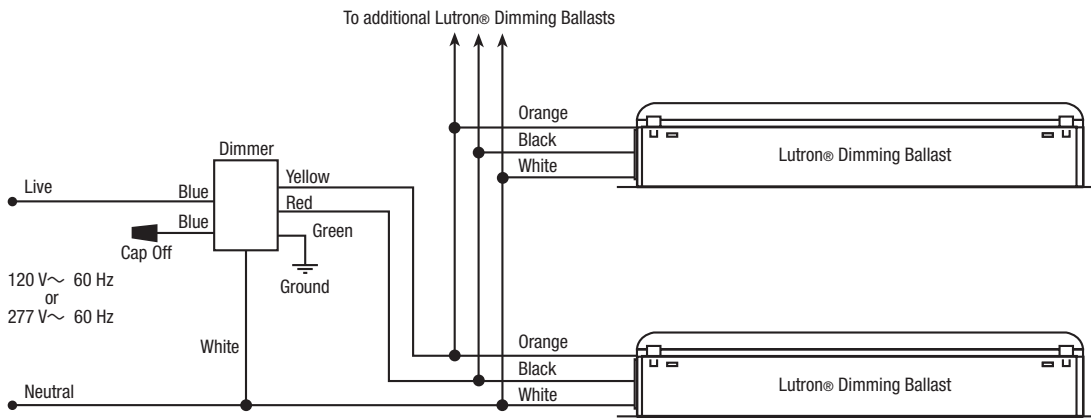
This unit is factory calibrated and does not normally require low-end light level adjustment. If lamps flicker or drop out at the minimum dimming level, there may be an installation error. Continued use of the system in this mode will cause premature lamp failure. If this is occurring, call the **Lutron Technical Support Center** at 1.800.523.9466. Please provide exact model number when calling.

Wiring Diagrams

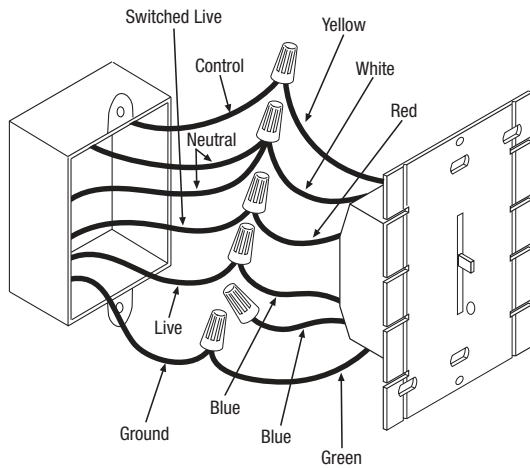
Test Switch Wiring Diagram



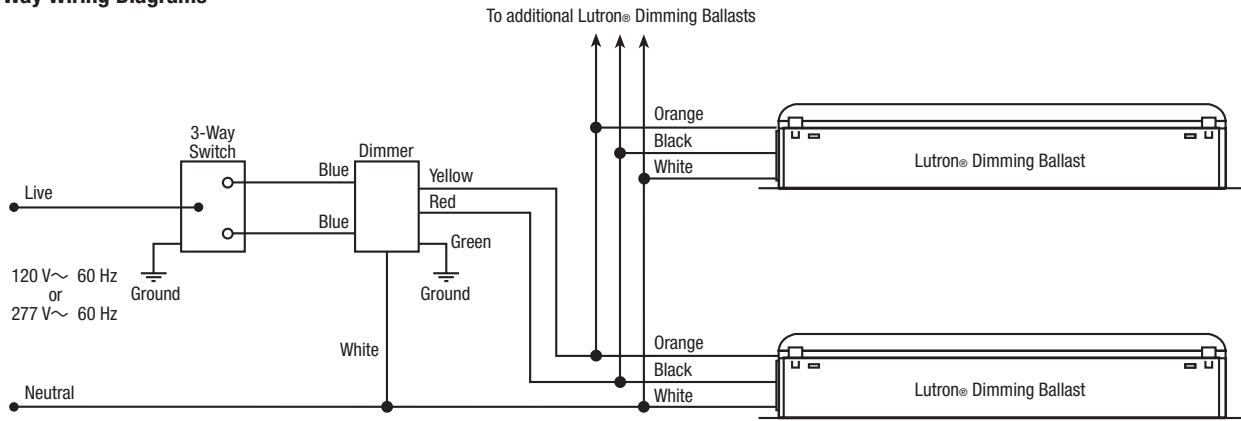
Single Pole Wiring Diagram



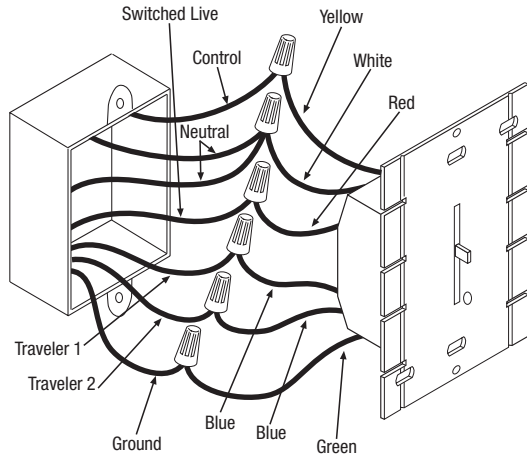
Single Pole Wiring Connections for Nova® and Nova T[☆]®



3-Way Wiring Diagrams



3-Way Wiring Connections for Nova® and Nova T[☆]®



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.
+1.800.523.9466 (U.S.A., Canada, and the Caribbean)

Other countries call +1.610.282.3800

Fax +1.610.282.1243

Internet: www.lutron.com

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 prepaid.

THIS WARRANTY IS IN LIEU OF ALL OTHER EXPRESS WARRANTIES, AND THE IMPLIED WARRANTY OF MERCHANTABILITY IS LIMITED TO ONE YEAR FROM PURCHASE. THIS WARRANTY DOES NOT COVER THE COST OF INSTALLATION, REMOVAL OR REINSTALLATION, OR DAMAGE RESULTING FROM MISUSE, ABUSE, OR DAMAGE FROM IMPROPER WIRING OR INSTALLATION. THIS WARRANTY DOES NOT COVER INCIDENTAL OR CONSEQUENTIAL DAMAGES. LUTRON'S LIABILITY ON ANY CLAIM FOR DAMAGES ARISING OUT OF OR IN CONNECTION WITH THE MANUFACTURE, SALE, INSTALLATION, DELIVERY, OR USE OF THE UNIT SHALL NEVER EXCEED THE PURCHASE PRICE OF THE UNIT.

This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty may last, so the above limitations may not apply to you.

The design of this dimmer is a registered trademark of Lutron Electronics Co., Inc. and may be protected by one or more of the following U.S. trademark registrations: 1,617,349; 1,624,489; 1,624,490; 1,626,714; 1,638,913. NEC is a registered trademark of the National Fire Protection Association, Quincy, Massachusetts.

Lutron, Nova and Nova T[☆] are registered trademarks of Lutron Electronics Co., Inc.

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LUTRON®

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