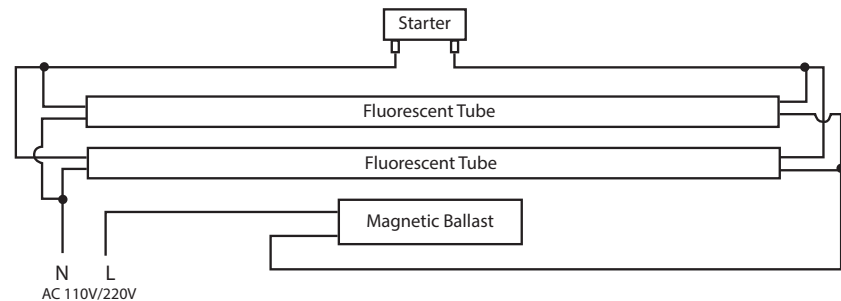


4ft. LED Tube Installation Instructions

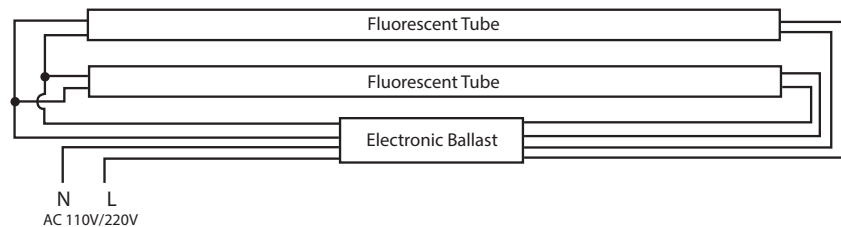
WARNING: Rewiring of fluorescent fixtures for use with LED tubes should only be performed by individuals who have been properly trained to perform basic electrical maintenance and repair. Please review these instructions thoroughly before proceeding!

- Step 1** Before opening and disassembling the fixture, make sure the power has been turned off through the main circuit breaker and all bulbs have been removed from the fixture.
- Step 2** Using the examples below please identify the wiring configuration of your fixture which is a function of the ballast type. If your type of configuration is "A" or "B," skip to Step 5. If your type of configuration is "C" (single wire coming from the G13 socket at the end of each tube,) go to Step 3.

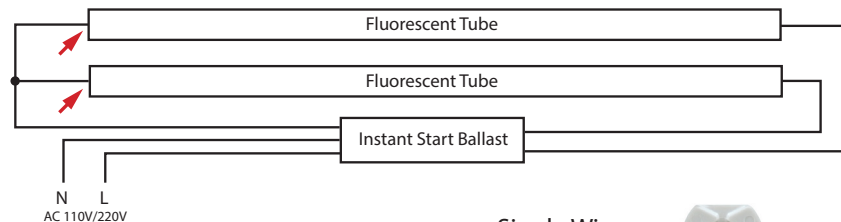
A
Magnetic/Inductive Ballast
w/ Starter



B
Electronic Ballast



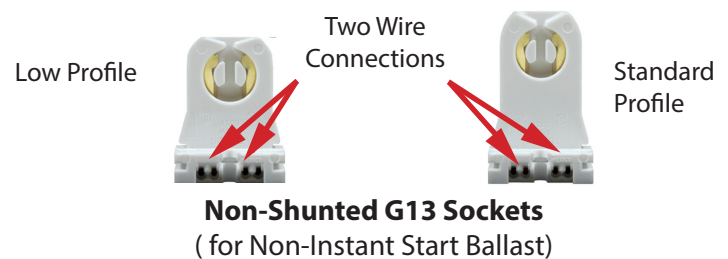
C
Instant Start Ballast



- Step 3** For Instant Start Ballast (Type C) Only!!! For each tube in the fixture, remove the shunted (single-wire) G13 socket **only** from the end of the bulb closest to where the line and neutral wires enter the fixture (for example, in the diagram above, the ends marked with the red arrows).



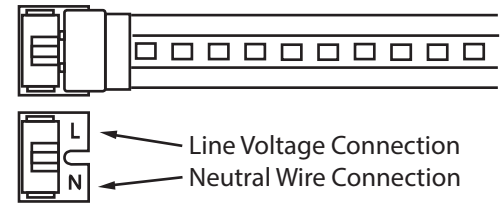
- Step 4** For Instant Start Ballast (Type C) Only!!! Depending on your fixture type, insert either the Low Profile or Standard Profile, non-shunted (two-wire) G13 sockets in the fixture openings and make sure they snap securely into place.



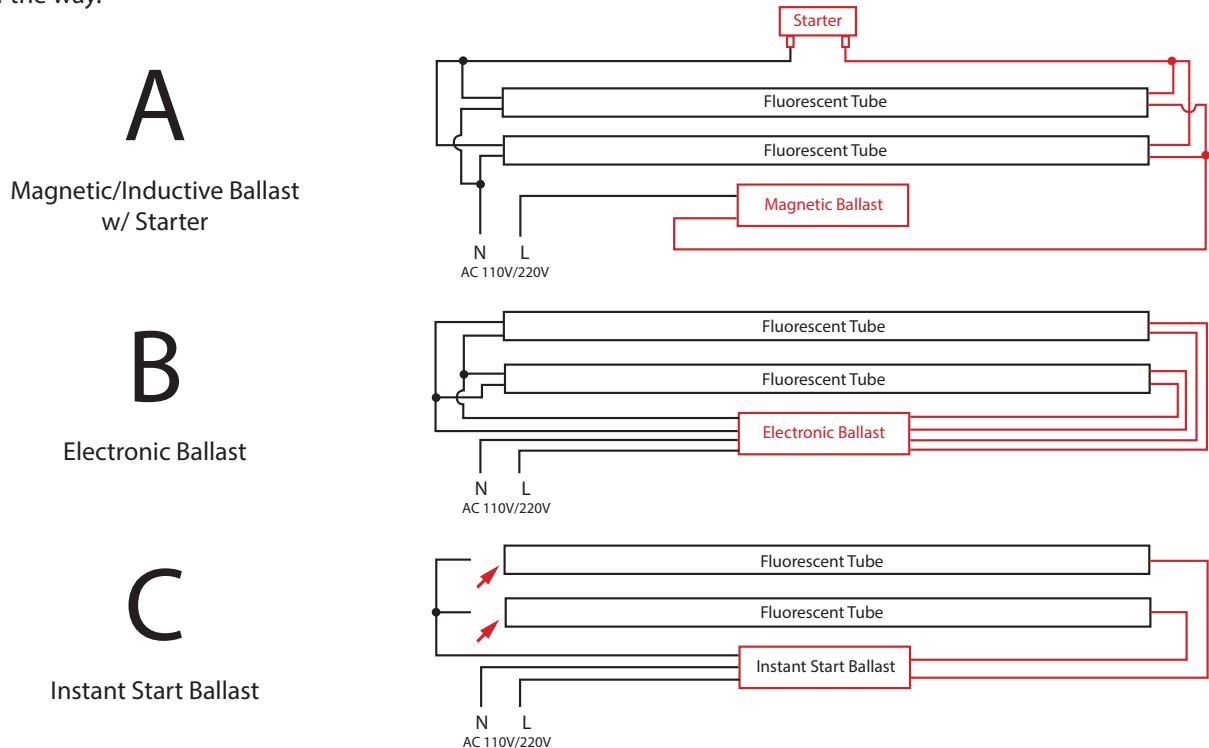
Step 5 The energized or “live” ends of your new LED tubes have either an “AC INPUT” label as shown below or “N” and “L” labeled pins. The pins on the non-energized or “dead” end of the tube are only used to hold that end of the tube in the socket. This side of the LED tube is unmarked and contains no labels. Before re-configuring your wiring in Step 6, make sure the wires going to the G13 socket will hold the “live” end of the tube.



“Live” Energized End marked with “AC INPUT” sticker or with “N” and “L” pins



Step 6 Remove or disconnect all of the wiring/starter/ballast indicated in red in the diagrams below. When removing or cutting the wires from the G13 sockets at the “dead” end of the fixture, make sure that they are tight in the fixture and will hold your new LED bulbs securely. Replace broken G13 sockets. If you elect to leave the starter, ballast, or cut wiring in the fixture, or if it cannot be easily removed, make sure that all unused lead wires are wire-nutted, rolled up, and secured out of the way.



Step 7 Connect the line and neutral wires to the proper sides of the G13 sockets at the “live” energized end of the fixture as shown below. Make sure all wire connections are wire-nutted and wrapped with electrical tape, and make sure the fixture is properly grounded before reassembling it.

Step 8 Install your new LED tubes in the fixture and reconnect power.

