

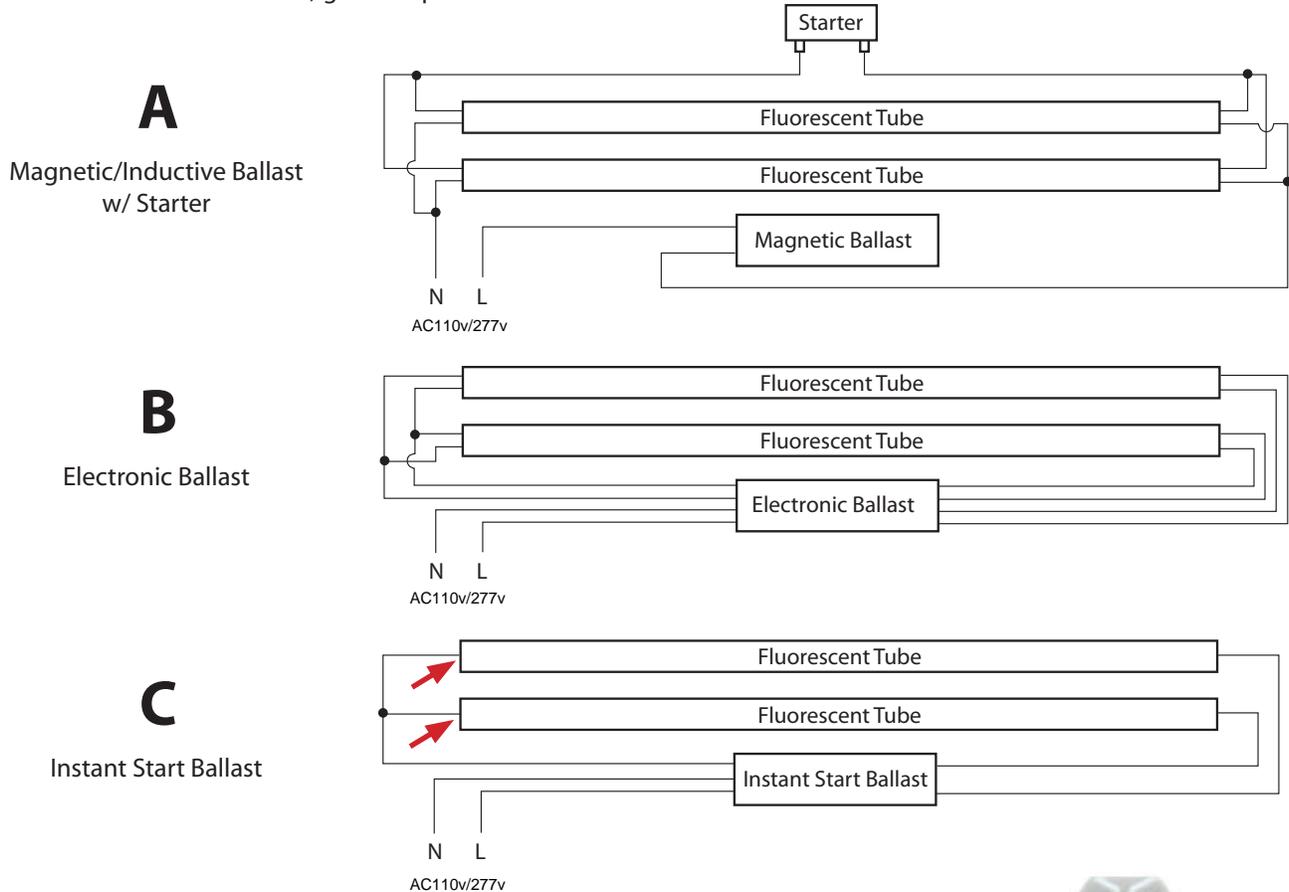
Single input LED Tube Installation Instructions

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!

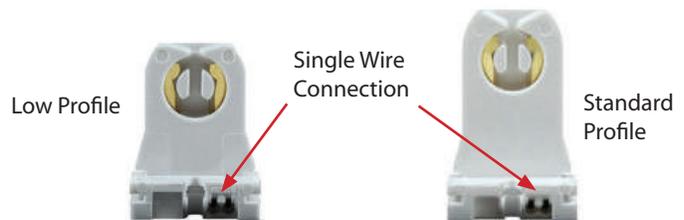
Step 1: Before opening and disassembling the fixture, make sure power has been turned off at the main circuit breaker and remove the bulbs from the fixture.

Step 2: From the examples below, identify the wiring configuration of your fixture which is a function of the ballast type. If you have configuration "A" or "B," skip to Step 5. If you have configuration "C" (single wire coming from the G13 socket at the end of each tube) go to Step 3.



Step 3: For Instant Start Ballast (Type C) Only!!!

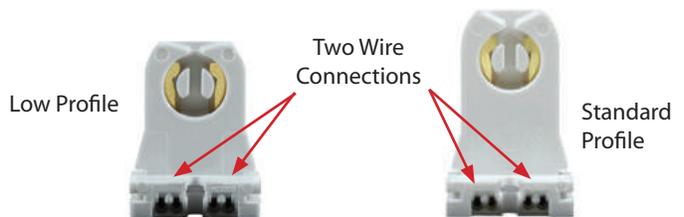
For each tube in the fixture, remove the shunted (single-wire) G13 socket from only the end of the bulb closest to where the line and neutral wires enter the fixture (for example, in the diagram above, the ends marked by the red arrows).



Internally Shunted G13 Sockets
(for Instant Start Ballasts)

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.



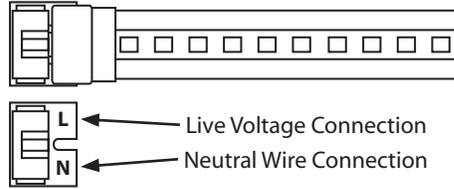
Non-Shunted G13 Sockets
(for Non-Instant Start Ballasts)

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Step 5: The energized or "live" end of your new LED tubes have Live (L) and Neutral (N) terminal pins as shown below. The pins on the unenergized or "dead" end of the tube are only used to hold that end of the tube in the socket. Before reconfiguring your wiring in Step 6, make sure the wires going to the G13 socket that will hold the "live" end of the tube (ideally, the socket closest to where power enters the fixture) are arranged so that line voltage connects to the side of the socket that will hold the "L" pin and that the neutral wire connects to the side of the socket that will hold the "N" pin.



"Live" Energized End



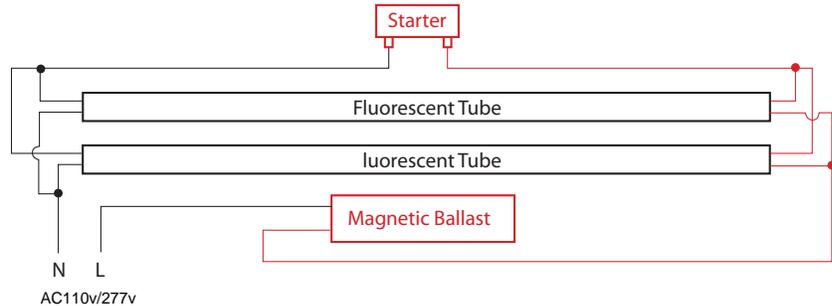
"Live" Energized End in G13 Socket



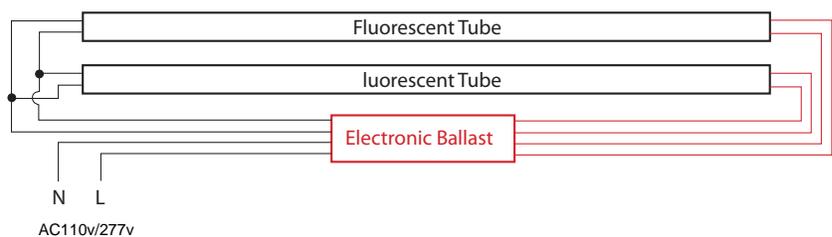
"Dead" Unenergized End

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 easily be removed, make sure that all unused lead wires are wire nutted, rolled up, and secured out of the way.

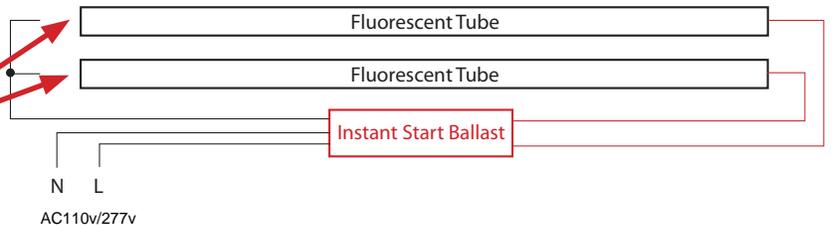
A
Magnetic/Inductive Ballast
w/ Starter



B
Electronic Ballast



C
Instant Start Ballast
Non-Shunted (2-wire)
G13 Sockets Installed



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 any wire connections are wire nutted and wrapped with electrical tape, and make sure the fixture is properly grounded before reassembling the fixture.

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

Have a greener lighting!

