



To Convert Standard T12 or T8 2 Ft or 4 Ft Fluorescent Fixture to LED Bulbs

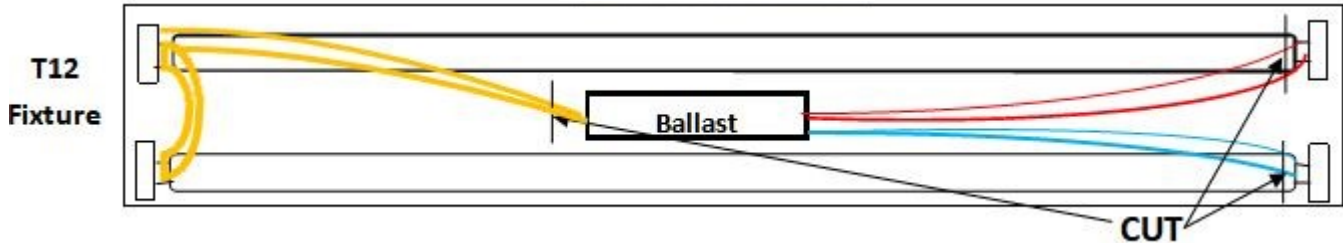
Please be sure to follow all local electrical codes when installing

**** T12 Holder:** Note the 4 wire ports on the T12**



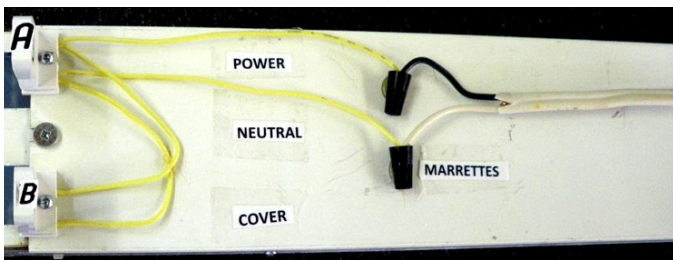
**** T8 Holder:** Note only 2 wire ports on this T8. Ends may have to be changed to 4 port**

****NOTE:** If there is a wiring diagram on the bulb's label, please use. If not, follow the instructions on these pages



T12 Wiring Instructions:

1. Make sure breaker for the fixture is shut off and cut the 2 yellow wires by the ballast
2. Cut the 2 red and 2 blue wires next to the bulb holders and remove ballast along with the red and blue wires
3. With marretts, connect one yellow wire that was cut next to the ballast to the black power wire from power source and one yellow wire to the white neutral wire from power source (power will be at one end of each bulb only). Leave "jumper" wires from one bulb holder to the other intact
4. Install labeled end of the LED tubes in the powered end of the fixture, and turn breaker on

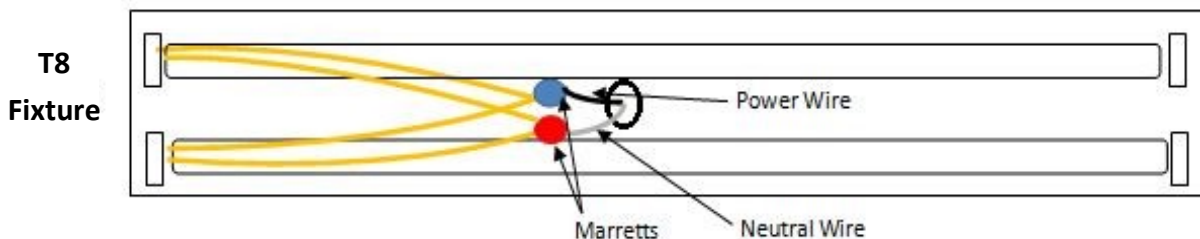


Example of T12 wiring after ballast removal

- Wire colours may vary
- If bulbs are installed in reverse, they may not illuminate
- Please remove protective plastic pin covers and adhesive wrap before illuminating
- If breaker keeps blowing on T8 install, ends may be causing a short (shunted ends) and will have to be replaced

T8 Wiring Instructions (Non-Electronic Ballast):

1. Make sure breaker for the fixture is shut off and cut the 4 yellow wires by the ballast
2. Cut the 2 red and 2 blue wires next to the bulb holders and remove ballast along with the red and blue wires
3. With a marrett, connect a yellow power wire from each T8 end to the black power wire from the power source (three wires in marrett). Do the same with the neutral wires from each T8 end to the white neutral wire from the power source (power will be at one end of each bulb only)
4. Install labeled end of the LED tubes in the powered end of the fixture, and turn breaker on



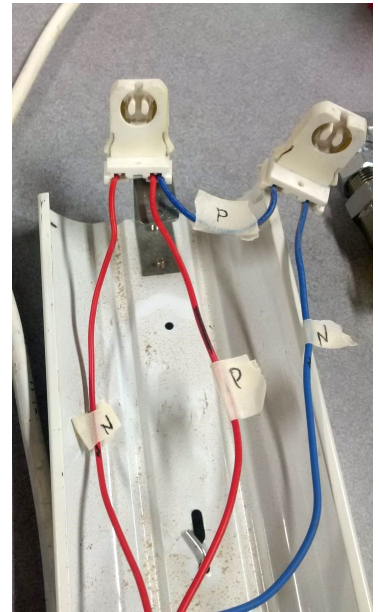
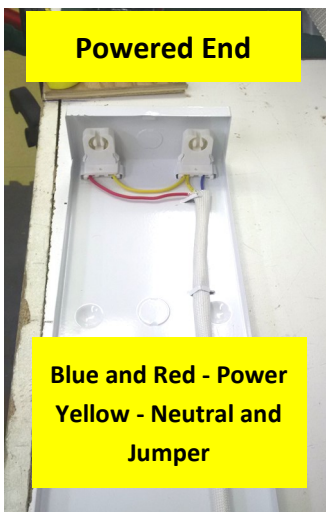
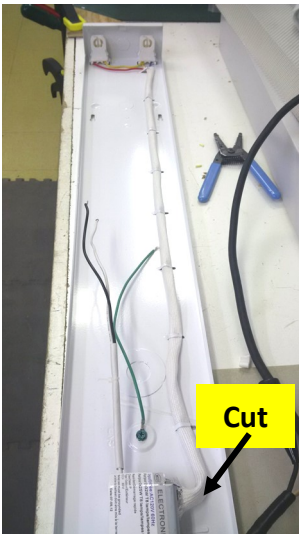
LED Tube Bulb Wiring Instructions

Note: If bulbs are installed in reverse, they may not illuminate

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T8 with Electronic Ballast Wiring Instructions (Wire Colours May Vary)

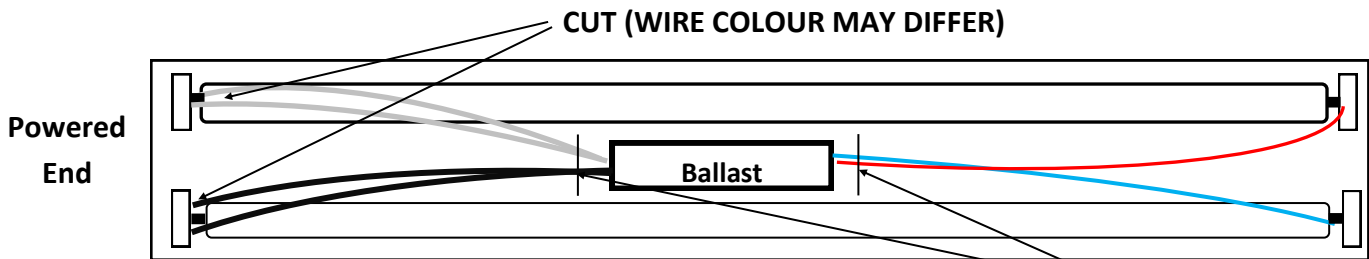
- Shut off power to fixture
- To remove ballast, cut red, blue, and yellow wires right next to ballast on powered end (note - wire colours may vary)
- Cut wires next to bulb holders on non-powered end; set aside ballast
- Peel back white protective "sock" (if present) to expose red, blue, and yellow wires
- Attach red and blue (power) wires to black power wire from power source in a marrett
- Attach yellow (neutral) wire to white neutral wire from source in a marrett
- Connect ground wires
- Install the labeled end of the tube in the powered end of the fixture and turn breaker on



Example of wiring in a different type of 4' fixture with an electronic ballast

To Convert Standard Single Pin 8' Fluorescent Fixture to LED Bulbs

Please Use U-Shaped Clips (Included) to Support the Middle of the Tube to Prevent Sagging



1. Make sure breaker for the fixture is shut off.
2. Cut all the wires next to the ballast. Remove ballast.
3. At the powered end, cut off one wire at each bulb holder so there is only one wire at each holder. Connect these two wires to the black wire from the power source with a marrett (3 wires in marrett).
4. At the other end of the fixture, connect one wire from each holder to the white neutral wire from the power source with a marrett (3 wires in marrett).
5. Install the labeled end of the LED tube in the powered end of the fixture, and turn breaker on

**** If You Received 8' Cold Start LED Tubes - Follow Wiring Diagram on the Bulb's Label ****
****If You Received 8' Double Pin LED Tubes - Follow 4' Double Pin Instructions****