

LED T8 Tube Installation instructions for LT8-4841-1700

READ ALL OF THESE INSTALLATION INSTRUCTIONS BEFORE INSTALLING THE FIXTURE. FAILURE TO FOLLOW INSTALLATION INSTRUCTIONS AND ALL APPLICABLE ELECTRICAL CODES WILL VOID THE PRODUCT WARRANTY. This product is sold in cases of six reflector kits. Each reflector kit includes the following components: LED T8 Tube Lamp (1 pc), T8 non-shunted lampholder also known as "tombstone" or bi-pin socket (1 pc), lamp clips/screws (2 pcs), ground wire/screw (1 pc), installation instructions (1 pc) and installation labels (one label is to be used for each modified fixture). **Make sure you have all the kit components before beginning any installation.**

WARNING - Risk of fire or electric shock. Luminaire wiring and electrical parts may be damaged when drilling for installation of LED retrofit kit. Check for enclosed wiring and components.

Only those open holes indicated in the photographs and/or drawings may be made or altered as a result of kit installation. Do not leave any other open holes in an enclosure of wiring or electrical components.

Warning

- 1) WARNING-Risk of fire or electric shock. LED Retrofit Kit installation requires knowledge of luminaires electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- 2) WARNING-Risk of fire or electric shock. Install this kit only in the luminaires that have the construction features and dimensions shown in the photographs and/or drawings.
- 3) WARNING-To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.
- 4) WARNING: To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lamp holders. Note: Shunted lamp holders are found only in fluorescent luminaires with Instant-Start ballasts. Instant-start ballasts can be identified by the words "Instant Start" or "I.S." marked on the ballast. This designation may be in the form of a statement pertaining to the ballast itself, or may be combined with the marking for the lamps with which the ballast is intended to be used, for example F40T12/IS. For more information, contact the LED luminaire retrofit kit manufacturer.
- 5) Installers should not disconnect existing wires from lamp holder terminals to make new connections at lamp holder terminals. Instead installers should cut existing lamp holder leads away from the lamp holder and make new electrical connections to lamp holder lead wires by employing applicable connectors.
- 6) "This luminaire has been modified and can no longer operate the originally intended lamp," shall be marked on the retrofit luminaire where readily visible by the user during normal maintenance including re-lamping.
- 7) LED Lamp Replacement Marking – Identification of the replacement LED lamp type/model to be used along with manufacturer and ordering information.
- 8) For a linear tubular LED conversion, there shall be text or a diagram showing how the supply connections were made to the lamp holders so the correct connections will be made to the lamp when the lamp is installed or replaced.

"Not for use with dimmers."

"Caution - Risk of Electric Shock – Use In Dry Locations Only."

Only use in Type IC Listed Fluorescent Maximum Three lamped troffer style luminaire.

THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS

Remove thermal protector used in existing recessed luminaire if any.

-Do not install in a raceway or a luminaire marked for through branch wiring.

Always connect ground lead to fixture where applicable.

Provided minimum 110 mm between tube to tube spacing.

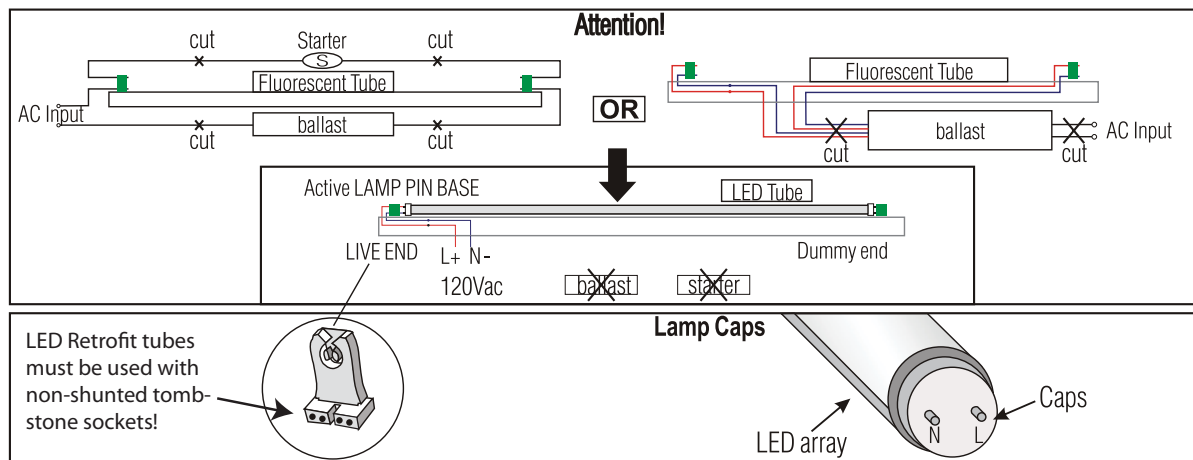
Installation

Turn on the power supply to check whether the light tube is working properly.

Step 1 - Disconnect all power to the lamp fixture.

Step 2 - Remove the fluorescent lamp.

Step 3 - Remove the ballast and starter where applicable.



Step 4 - Designate one side of the fixtures lamp sockets as the "LIVE END" and mark for future reference.

Step 5 - Connect the positive lead to one of the two wires connected to the lamp pin base and connect the negative lead to the second of the two wires connected to the same lamp pin base (above), and the lamp pin L to connect lamp base positive lead, the lamp pin N to connect lamp base negative lead. All connection are made by wire nuts.

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*Be sure that the splices or connector should be insulated reliably, and they should be in the enclosed splice compartment."

*For any 1,2,3-bulb fixture, simply connect all the positive leads from each lamp pin bases to the positive lead in and connect all the negative leads from each lamp pin bases to the negative lead in Figure 4.

Figure 3

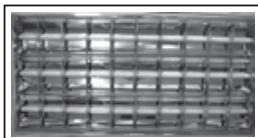
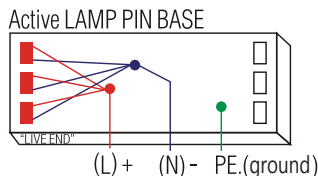


Figure 4



Step 6 - Install led tube light in fixture matching the L side of the lamp to the "LIVE END" side of the fixture. After having fixed it, turn the tube 90°, ensure that the tube is well installed to the lamp fixture.(Figure 4).

Step 7 - "After modification completes, then affix the Lamping Replacement Marking label and cautionary label to painted surface and bare aluminum, located this where visible during re-lamping on the retrofitted luminaire".

Step 8 - Wiring method: Wire the brown line to the cable L(live wire), and blue one to line N (null line), yellow green one to G(ground). Please see the above photo for details.(Figure 4)

5. Usage Instructions

➤ Ambient Working Requirements

- Working temperature : Max 40°C
- Storage temperature : -40~60°C
- Storage humidity : 10%~90%

➤ Unpacking and Checking

- Open the package and check the products, please handle with care
- If the new LED tube is found damaged, please contact us instantly with the complete package
- Please do not try to use the damaged LED tube

➤ Cautions

- 1) In order to ensure the product works properly, please use the power supply within indicating voltage range.
- 2) Please follow the correct installation steps to install the product. Please DO NOT touch the tube while tube is working.
- 3) Please turn off the power supply (cut off Live wire and Neutral wire at the same time) for the base to avoid the risk of electric shock while installing or uninstalling the product.
- 4) Do not use the products in the high humidity or dust environment, including but not limited to the following environment: bathroom, sauna room.
- 5) Do not look directly at LED light source for a long time, because the high-intensity light source may cause harm to eyes.
- 6) Please contact a qualified electrician for repair services when you find the following problems, and do not disassemble the tube light:
 - a. Electronic components are exposed to rain or other liquids splash.
 - b. Products release smell gas, abnormal sound and unusual flash.
 - c. The cover is broken. Debris goes into the base or the tube.

➤ Troubleshooting

If the T8 tube is not working properly, please check if any of the following reasons are causing the problem. If the problem persists and cannot be resolved by the following actions below, please discontinue usage and contact a qualified electrician.

1. The LED tube does not light after properly connecting the power supply as directed in the instruction manual.
Action: Turn off the power supply and check whether the circuit screw on the LED tube is loose and if the sheet metal on the base is suitably secured.
2. The lamp flashes when it is powered on.
Action: Please call a qualified electrician to check and confirm if the power supply voltage is lower than luminaire's requirement.

Technical and Electric Specifications { Temperature = 25°C }

Model Number	Length (meters)	Material	Voltage (V)	Operating Frequency (HZ)	Input Current (MAX:A)	Rated Power (W)	Power Factor
LT8-4841-1700	1.2m	Aluminum alloy + PC	100~277	50/60	0.35	19	0.90



LED T8 Tube

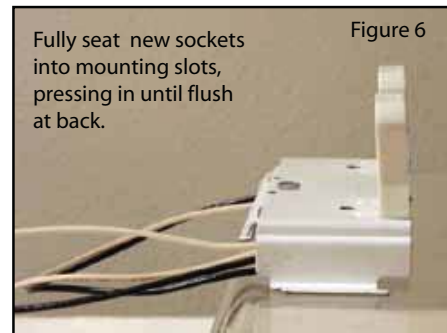
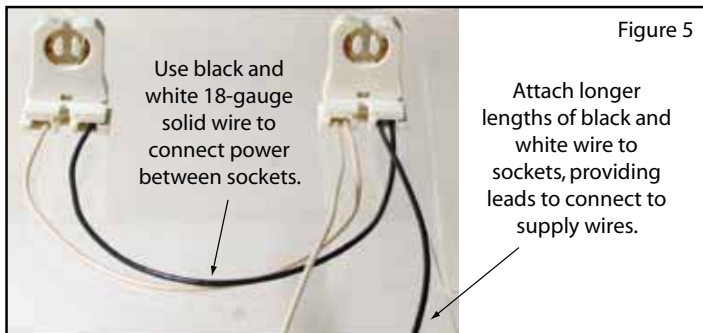
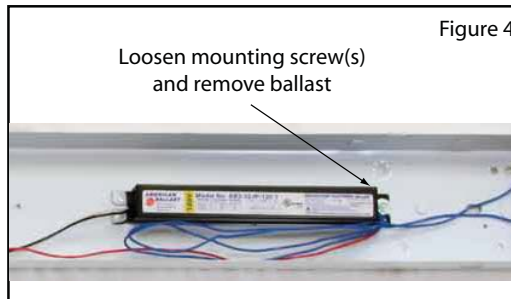
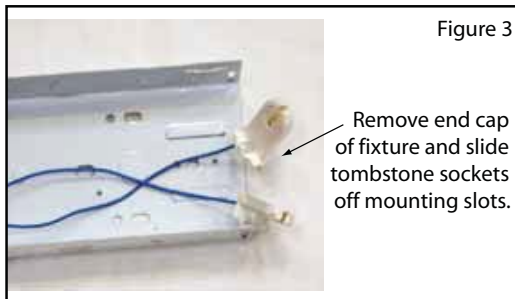
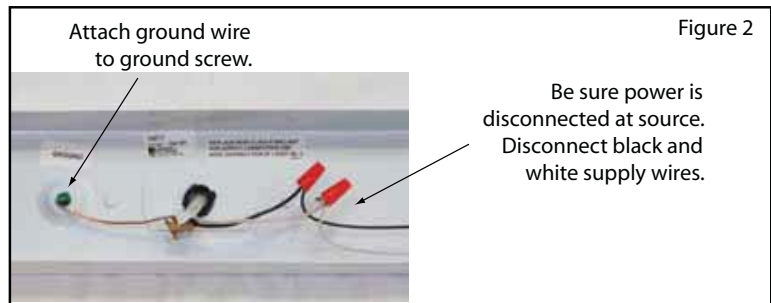
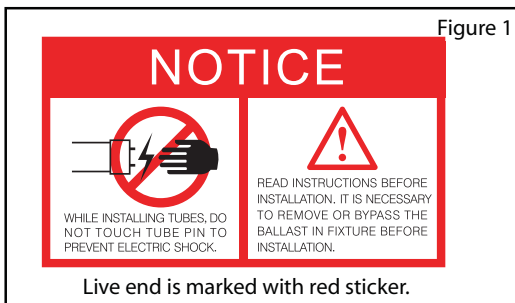
Installation instructions for LT8-4841-1700

NON-SHUNTED SOCKET INSTALLATION AND FIXTURE MODIFICATION

Note: The "live end" of the LED T8 Tube is marked with red sticker and a product label. See Figure 1.

1. Determine which end of the luminaire will receive AC power. This will be the "live end". The opposite end will be the "dead end".
2. Be sure power is shut off at source! Remove lens where applicable and remove ballast cover.
3. Attach ground wire (from AC supply) to ground screw or if already attached, confirm the connection is solid. See Figure 2.
4. Disconnect the supply wires (black and white wires). See Figure 2.
5. Remove the end cap of the luminaire's housing and remove the existing sockets (also known as a "tombstones") from the live end for each LED T8 Tube by lifting or unseating them from mounting slots. See Figure 3.
6. Remove the ballast from the fixture. See Figure 4.
7. Cut one black and one white 18-gauge solid copper wire (not included) to approximately 12" length and strip ends to 3/8".
Cut one more of each color wire, making sure you have enough wire to reach from the end of the luminaire to the supply wires (approximately 30").
8. For a two light luminaire, attach 12" black and white wires between sockets and longer lengths to one socket, providing lead wires to reach supply wires. See Figure 5.
9. Push the new sockets into the mounting slots until they are flush. See Figure 6.
10. Replace the luminaire's end cap with the new sockets securely mounted to the live end of the luminaire. See Figure 7.

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NON-SHUNTED SOCKET INSTALLATION AND FIXTURE MODIFICATION (continued from previous page)

11. Attach lead wires from new sockets to supply wires, making sure to match polarity (connect black to black and white to white), using appropriate UL Listed wire nuts. See Figure 8.
12. Cut back any remaining wires from the socket(s) at the "dead end" and cap off with a UL Listed wire nut. Leave this socket in place to hold the LED T8 Tubes. See Figure 9.
13. Replace ballast cover.
14. **IMPORTANT: Install the fixture modification label "This luminaire has been modified and can no longer operate the originally intended lamp" inside the fixture in an easily visible location to anyone changing lamps, possibly on the cover over the wiring channel. See Figure 10 below.**
15. Replace any lenses that were removed.
16. Turn back on power supply.



Figure 8

Attach lead wires from sockets to supply wires, making sure to match polarity (connect black to black and white to white.)

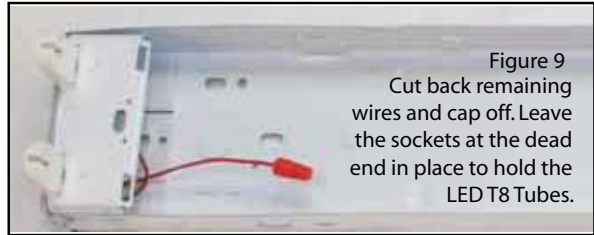


Figure 9

Cut back remaining wires and cap off. Leave the sockets at the dead end in place to hold the LED T8 Tubes.

THE END RETROFIT LUMINAIRE HAS BEEN MODIFIED AND CAN NO LONGER OPERATE THE ORIGINAL INTENDED LAMP(S).

REFERENCE BEFORE AND AFTER FOR A RETROFIT FOR T8 TUBES INTO A BALLASTED T8 LUMINAIRE



BEFORE (WITH BALLAST AND ORIGINAL LAMPHOLDERS)



AFTER (WITH BALLAST REMOVAL AND NON-SHUNTED LAMPHOLDERS) INSTALLATION AT LIVE END

Figure 10

This luminaire has been modified and can no longer operate the originally intended lamp

IMPORTANT! Install the fixture modification label in an easily visible location.

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Always connect ground lead to fixture where applicable.