

INSTRUCTIONS

EMERGENCY LED TUBE INSTALLATION

RAB

RAB Lighting is committed to creating high-quality, affordable, well-designed and energy-efficient LED lighting and controls that make it easy for electricians to install and end users to save energy. We'd love to hear your comments. Please call the Marketing Department at 888-RAB-1000 or email: marketing@rablighting.com

** DON'T TOSS IT—RECYCLE IT! MAKE THE SUSTAINABLE CHOICE BY RECYCLING THIS FIXTURE AT END OF LIFE WITH A LICENSED RECYCLING PROVIDER. **

T10EM-24

T10EM-36

T10EM-48



IMPORTANT

READ CAREFULLY BEFORE INSTALLING LAMPS. RETAIN THESE INSTRUCTIONS FOR FUTURE REFERENCE.

RAB lamps must be wired in accordance with the National Electrical Code and all applicable local codes. Proper grounding is required for safety. **THIS PRODUCT MUST BE INSTALLED IN ACCORDANCE WITH THE APPLICABLE INSTALLATION CODE BY A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE PRODUCT AND THE HAZARDS INVOLVED.**

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.

• Risk of fire or electric shock. Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawings and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.

• To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects.

• To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders.

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. No need for double end electriferous installation.

• Installers should not disconnect existing wires from lampholder terminals to make new connections at lampholder terminals. Instead installers should cut existing lampholder leads away from the lampholder and make new electrical connections to lampholder lead wires by employing applicable connectors.

• Installers should examine all parts that are not intended to be replaced by the retrofit kit for damage and replace any damaged parts prior to installation of the retrofit kit.

• Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation.

CAUTION: Disconnect power at the source before installation, inspection or removal. Do not simply switch off fixture.

• Only those open holes indicated in these instructions 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.

Service by Qualified Personnel Only. De-energize before opening.

• Over 90 minutes back up working time with typical 500 lumen output.

• The battery in this device is not user serviceable. Refer service to manufacturer's qualified personnel only. Do not incinerate.

• Do not immerse the battery into the water or the sea. Guard against damp.

• Do not approach the heat source, like fire or heater. Do not discard the battery to the fire or hyperpyretic objects.

• Please use the battery in normal as follows, or it will be overheating, caught fire, reduced performance and shorten the life; The battery can be used in the following environment to avoid overheating, fire, reduced performance or life:

Suitable for use in 0°C to 45°C (32°F to 113°F).

• Risk of fire or electric shock. Do not open or modify. No user serviceable parts inside.

• **SUITABLE FOR DAMP LOCATIONS.** Not for use where directly exposed to the weather or water. **SUITABLE FOR "TYPE IC" OR "TYPE NON-IC" LUMINAIRES.** No external weight or mechanical force should be applied to tube or components.

• The operating instructions shall provide appropriate information regarding temperature limits during battery charging, use and storage, as well as for the safe disposal of the product.

• To reduce the risk of electric shock — disconnect both normal and emergency sources within this unit before servicing any equipment connected to this unit.

T10307(T10EM-24) shall be marked "Max. mounting height: 11.67ft (3.55m) or the equivalent.

T10308(T10EM-36) shall be marked "Max. mounting height: 11.78ft (3.59m) or the equivalent.

T10309(T10EM-48) shall be marked "Max. mounting height: 12.12ft (3.69m) or the equivalent.

This device complies with part 15 of the FCC rules. Operation is subject to the following conditions:

(1) This device may not cause harmful interference, and

(2) this device must accept interference received, including interference that may cause undesired operation.

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INSTALLATION

1. Disconnect power to the fixture. Disconnect Break 1 and Break 2.
2. Remove existing fluorescent tubes.
3. Remove ballast cover.
4. Cut all the wires to ballast. Note: Ballast must remain in place.
5. Remove existing lamp holders if it's shunted ones (Fig. 1).
6. Replace existing lamp holders with new non-shunted lamp holders to install with the EM924 led tube in the fixture. Refer to wiring diagram (Fig. 2).
7. Reinstall the ballast cover.
8. Install the lamp in the lamp holders and well install the tube (Fig. 3), the tube will have to be rotated to lock into the right position and then connected power.
9. IMPORTANT: Rotate the tube until it locked (Fig. 4). If the tube is not pushed in place, the lamp cannot be powered on and lit up.
10. Adhere the enclosed notice label to the reflector of the luminaire.
11. Slide the lamp ON/OFF switch to ON. Select desired watt and color temperature before power on.
12. Restore power to the fixture (Break 1 and Break 2) and turn the light on with the wall switch.
13. The lamp should be lit at full power.
14. Regulatory compliance tests: Refer to EM Testing Guide.
15. Indicator working status (Fig.5)
16. Install Emergency LED Tube and ensure test switch is installed and connected (Fig.6).

Fig: 1

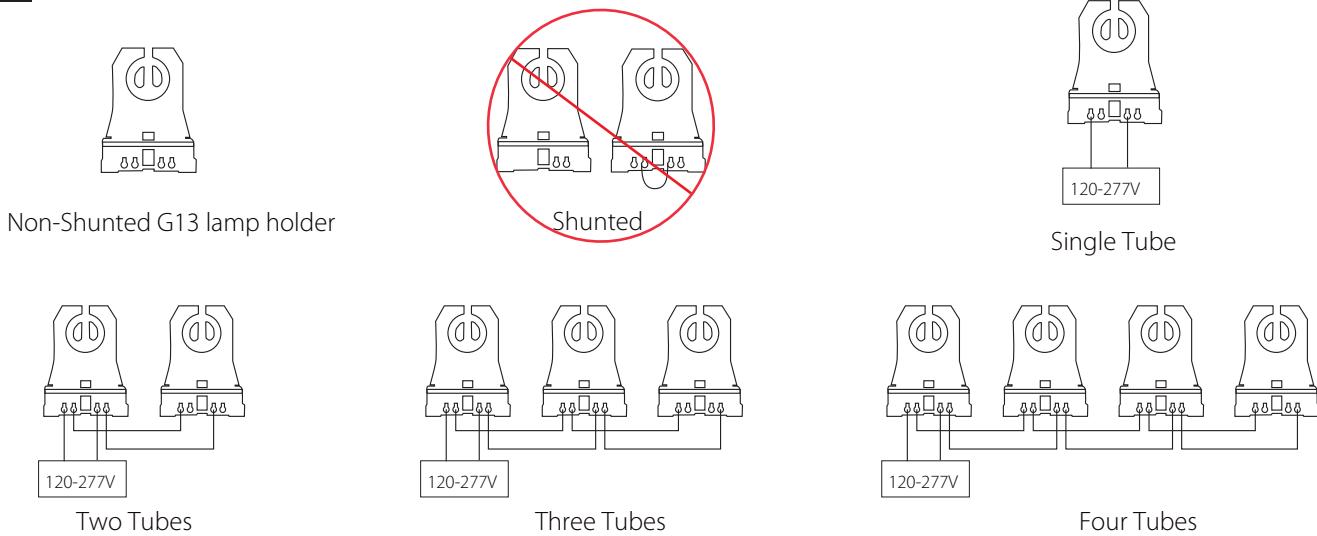
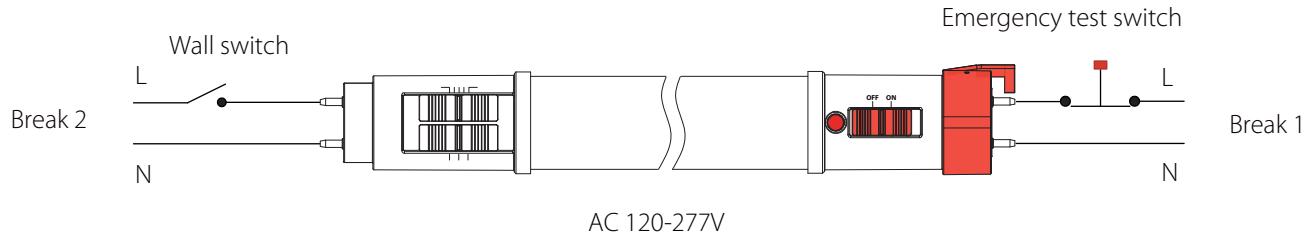


Fig: 2



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INSTALLATION(*cont'd*)

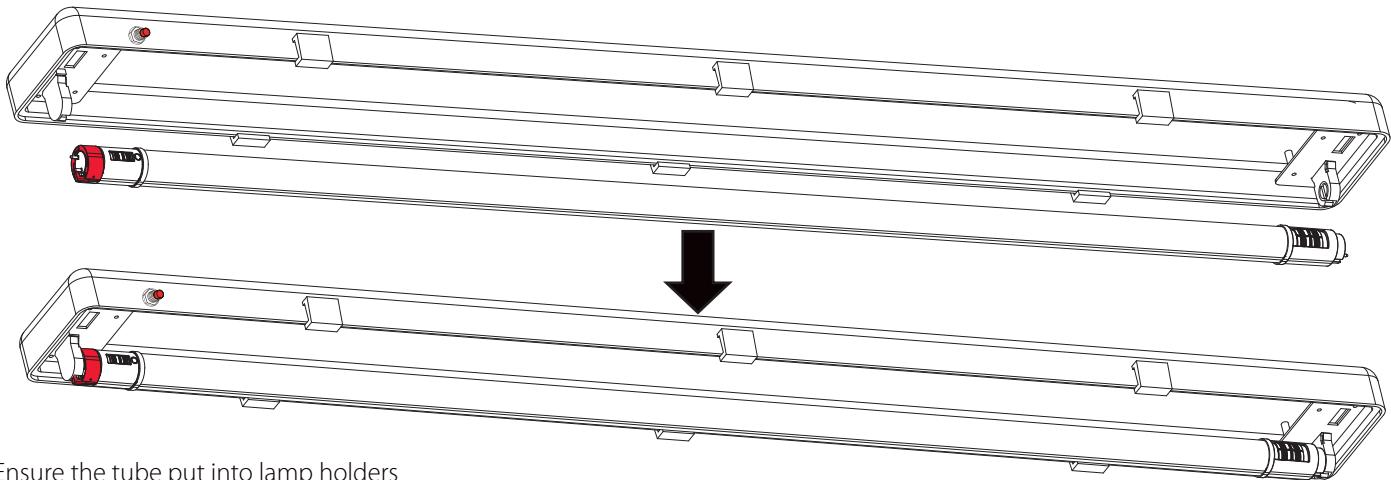
Model Number	Input Ratings				Lamp Length	LED Lamps Tested in Luminaire	Minimum Luminaire Dimension with Max. No. of Tubes	Lamp Holder to Lamp Holder Spacing
	V	Hz	A	W				
T10307(T10EM-24)	120-277	50-60	MAX:0.11	MAX:14W	24 inch	4	61 x 61 x 5 cm 24 x 24 x 1.97 inch	11 cm 4.33 inch
T10308(T10EM-36)	120-277	50-60	MAX:0.15	MAX:18W	36 inch	4	91 x 61 x 5 cm 35.83 x 24 x 1.97 inch	11 cm 4.33 inch
T10309(T10EM-48)	120-277	50-60	MAX:0.18	MAX:21W	48 inch	4	121 x 61 x 5 cm 47.64 x 24 x 1.97 inch	11 cm 4.33 inch

Original Tube: ANSI LED 24T8 tube / ANSI TYPE 17W/48T8

Original Tube: ANSI LED 36T8 tube / ANSI TYPE 25W/48T8

Original Tube: ANSI LED 48T8 tube / ANSI TYPE 32W/48T8

Fig: 3



Ensure the tube put into lamp holders

Fig: 4

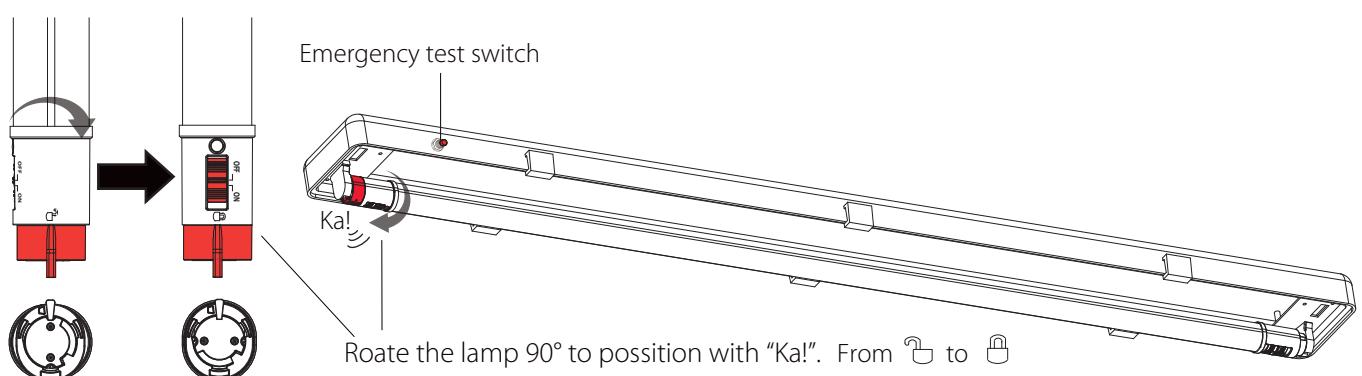
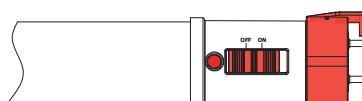
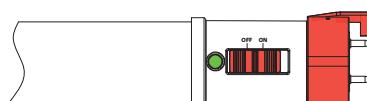


Fig: 5



RED LIGHT ON: Recharging



GREEN LIGHT ON: Full charged



NO LIGHT: Please check installation or contact manufacturer

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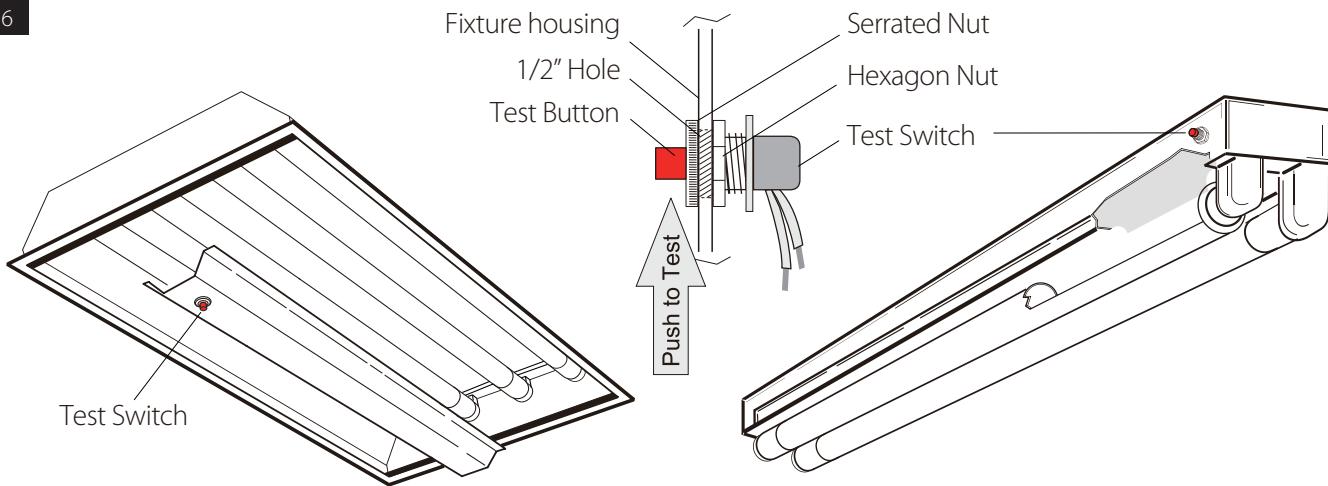
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EMERGENCY TEST SWITCH INSTALLATION INSTRUCTIONS

Fig: 6



EMERGENCY TESTING GUIDE:

If there is an existing Emergency Test Switch in the fixture system, you can replace the existing tubes and ensure the Test Switch can still work properly according to the EMERGENCY TESTING GUIDE.

1. Press the test button to cut the power to the AC driver and switch the system to emergency mode.
2. Release the test button to return to normal mode.

ROUTINE TESTING SCHEDULE

Monthly:

1. Ensure the wall switch is Off.
2. Depress the test button and hold on.
3. Conduct a 30-second discharge test by depressing the test button.
4. The LED load should operate at reduced lumen output.

Annually:

1. Allow a 24-hours charge before conducting test.
2. Ensure the wall switch is Off.
3. Keep the test button depressing or switch off the circuit Breaker 1.
4. Conduct a full 90-minute discharge test.
5. The unit should operate as intended for the duration of the test.

Note: These instructions do not cover all details or variations in equipment nor do they provide for every possible situation during installation, operation or maintenance.

RAB
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Easy Answers

rabilighting.com
Visit our website for product info

Tech Help Line
Call our experts: 888 722-1000

e-mail
Answered promptly - sales@rabilighting.com

Free Lighting Layouts
Answered online or by request