LED Tube Lamp

Installation Guide

Verbatim T8 LED Tube	
Part Number	98955 and 98956
Operating Input Voltage	100 - 240 VAC, 50 - 60 Hz
Power Factor	> 0.9
Wattage	18W
Operating Temperature	-30 to 45 °C
Storage Temperature	-40 to 80 °C
Operating Humidity	< 90% (RH)
Cap Base	G13
Contents of Carton	T8 LED Tube Lamp and LED Fuse

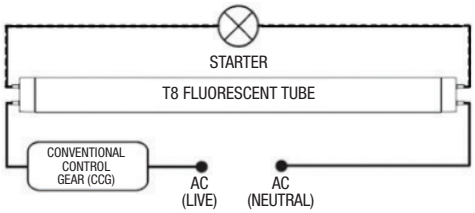
Safety Warnings

- This product must be installed by a licensed electrician.
- Read the instructions fully prior to installation and use.
- Retain this manual for future reference.
- Before attempting to insert or remove the lamp, ensure the power to the fixture has been cut off and the lamp is cool to touch.
- Intended for use in dry and indoor locations only.
- Do not use with dimmers.
- This product is not suitable for use near flammable liquids, vapors, gases or in explosive environments.
- Not intended for use with emergency exits.
- If during normal usage, this lamp is found to be defective in any way, cease use immediately and contact the manufacturer or local service agent.
- There are NO user-serviceable parts in this product.
- Do not attempt to modify the LED tube in any way from the condition "as supplied".

Installation Guide

Part 1. Replace the lamps in Conventional Fluorescent Tube Wiring with Starter (Case 1 and 2)

Figure 1. Wiring Diagram of Conventional Fluorescent Tube Wiring with Starter



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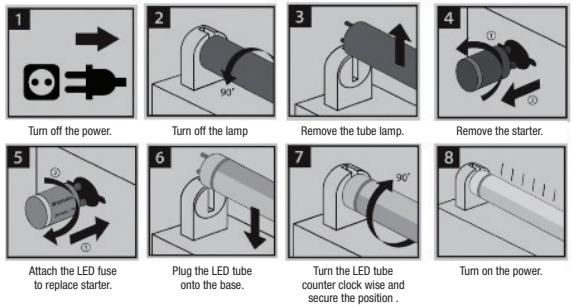
Case 1. Retrofitting

- **Make sure the power is switched off before carrying out any installation work.**
- **Follow the steps below (from 1 to 8) to complete the installation.**



Case 2. Direct Wiring by Removing Conventional Control Gear

- **Make sure the power is switched off before carrying out any installation work.**
- **Cut off the Conventional Control Gear (CCG) from the fixture as shown in the Figure 2.**
- **Remove and dispose of CCG, starter and extra wires.**
- **Rewire according to the Figure 3.**
- **Turn on the power.**

Figure 2.

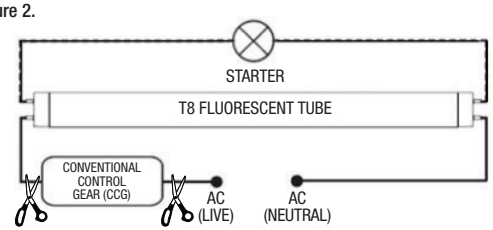
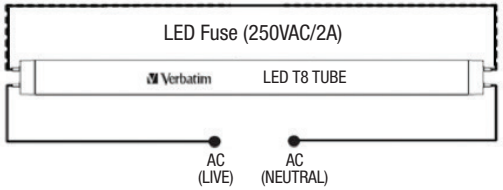


Figure 3.



Part 2. Replace the lamps in the fixtures utilizing Electric Ballast (From Case 3 to 6)

Case 3. Direct Wiring with One Tube and One Electric Ballast

- **Make sure the power is switched off before carrying out any installation work.**
- **Cut off the Electric Ballast and AC main power as shown in the Figure 4.**
- **Rewire as shown in the Figure 5. Dispose of the Electric Ballast**

Figure 4.

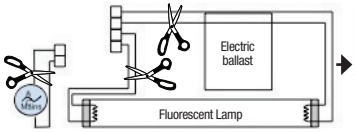
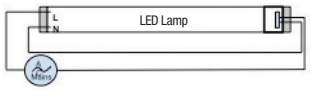


Figure 5.



Case 4. Direct Wiring with Two Tubes and One Electric Ballast

- **Make sure the power is switched off before carrying out any installation work.**
- **Cut off the Electric Ballast and AC main power as shown in the Figure 6.**
- **Rewire as shown in the Figure 7. Dispose of the Electric Ballast and extra wires.**
- **Turn on the power.**

Figure 6.

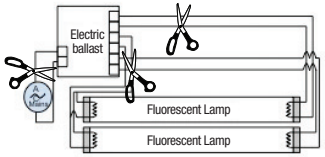
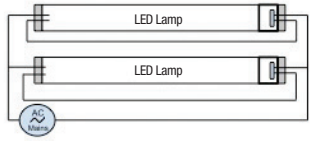


Figure 7.



Case 5 Direct Wiring with Four Tubes and One Electric Ballast

- **Make sure the power is switched off before carrying out any installation work.**
- **Cut off the Electric Ballast and AC main power as shown in the Figure 8.**
- **Rewire as shown in the Figure 9. Dispose of the Electric Ballast and extra wires.**
- **Turn on the power.**

Figure 8.

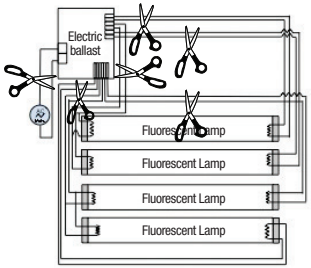
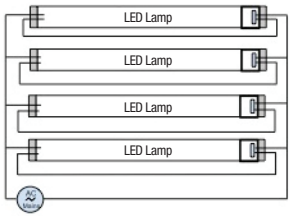


Figure 9.



Case 6 Direct Wiring with Four Tubes and Two Electric Ballasts

- **Make sure the power is switched off before carrying out any installation work.**
- **Cut off the Electric Ballast and AC main power as shown in the Figure 10.**
- **Rewire as shown in the Figure 11. Dispose of the Electric Ballast and extra wires.**
- **Turn on the power.**

Figure 10.

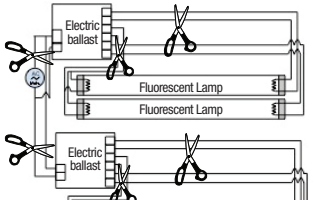
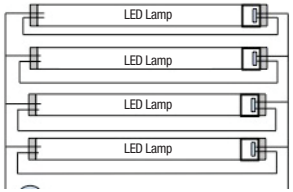


Figure 11.



Tubo LED Verbatim

Guía de instalación

Tubo LED T8 (98955 y 98956) de Verbatim	
Número de pieza	98955 y 98956
Voltaje de entrada	100 a 240 VAC, 50/60 Hz
Factor de potencia	> 0.9
Consumo de vatios	18W
Temperatura de funcionamiento:	-30 to 45 °C
Temperatura de almacenamiento:	-40 to 80 °C
Humedad de funcionamiento	< 90% (RH)
Casquillo	G13
La caja incluye	Un tubo LED T8 y un fusible de LED

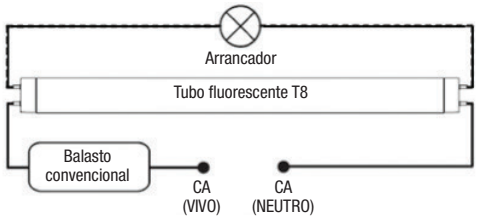
ADVERTENCIAS DE SEGURIDAD

- Este producto debe ser instalado por un electricista matriculado.
- Lea completamente las instrucciones antes de instalar y utilizar.
- Conserve este manual para referencia futura.
- Antes de intentar colocar o remover la lámpara, verifique que se haya cortado el suministro eléctrico del artefacto y que la lámpara esté fría al tacto.
- Diseñada para utilizar en lugares interiores y secos únicamente.
- No usar con reguladores (dimmers).
- Este producto no es apto para ser utilizado cerca de líquidos, vapores o gases inflamables o en entornos explosivos.
- No apto para colocar en salidas de emergencia.
- Si durante el uso normal, la lámpara presenta defectos de cualquier índole, deje de utilizarla de inmediato y póngase en contacto con el fabricante o el agente de servicio local.
- Este producto NO contiene piezas que puedan ser reparadas por el usuario.
- No intente modificar el tubo LED de ninguna manera que altere las condiciones "de fábrica".

GUÍA DE INSTALACIÓN

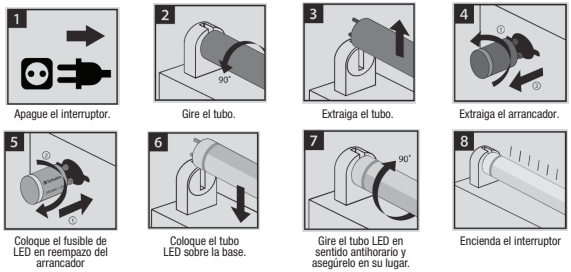
Parte 1. Reemplace las lámparas en el artefacto de tubo fluorescente convencional con arrancador (Caso 1 y 2)

Figura 1. Diagrama del cableado del artefacto de tubo fluorescente convencional con arrancador



Caso 1) Modificación

- **Verifique que el interruptor de corriente esté apagado antes de realizar la instalación.**
- **Siga los pasos a continuación (1 al 8) para completar la instalación.**



Caso 2) Cableado directo previa extracción del balasto convencional

- **Verifique que el interruptor de corriente esté apagado antes de realizar la instalación.**
- **Desconecte el balasto convencional (CCG) del artefacto como se muestra en la Figura 2.**
- **Extraiga y deseche el balasto (CCG), el arrancador y los cables sobrantes.**
- **Cambie el cableado de acuerdo con la Figura 3.**
- **Encienda el interruptor.**

Figura 2

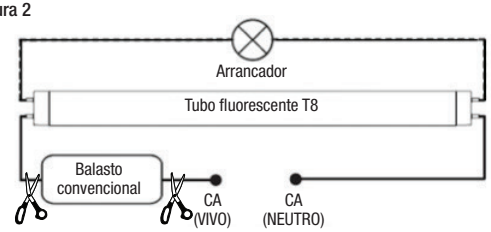
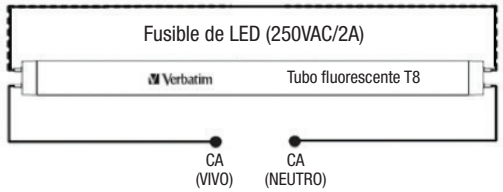


Figura 3



Parte 2. Remplace las lámparas de los artefactos utilizando con balastos eléctricos (del caso 3 al 6)

Caso 3) Cableado directo con un tubo y un balasto eléctrico

- **Verifique que el interruptor de corriente esté apagado antes de realizar la instalación.**
- **Desconecte el balasto eléctrico y la alimentación de CA como se indica en la Figura 4.**
- **Cambie el cableado como se muestra en la Figura 5. Deseche el balasto eléctrico y los cables sobrantes.**
- **Encienda el interruptor.**

Figura 4

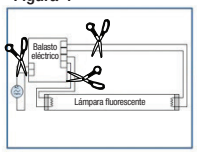
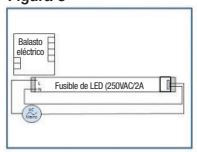


Figura 5



Caso 4) Cableado directo con dos tubos y un balasto eléctrico

- **Verifique que el interruptor de corriente esté apagado antes de realizar la instalación.**
- **Desconecte el balasto convencional (CCG) del artefacto como se muestra en la Figura 6.**
- **Extraiga y deseche el balasto (CCG), el arrancador y los cables sobrantes.**
- **Cambie el cableado de acuerdo con la Figura 7.**
- **Encienda el interruptor.**

Figura 6

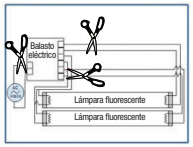
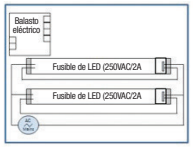


Figura 7



Caso 5) Cableado directo con cuatro tubos y un balasto eléctrico

- **Verifique que el interruptor de corriente esté apagado antes de realizar la instalación.**
- **Desconecte el balasto convencional (CCG) del artefacto como se muestra en la Figura 8.**
- **Extraiga y deseche el balasto (CCG), el arrancador y los cables sobrantes.**
- **Cambie el cableado de acuerdo con la Figura 9.**
- **Encienda el interruptor.**

Figura 8

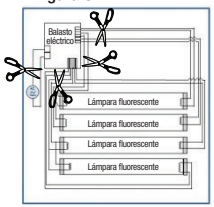
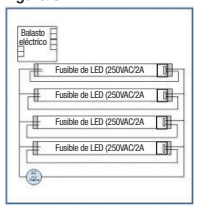


Figura 9



Caso 6) Cableado directo con cuatro tubos y un balasto eléctrico

- **Verifique que el interruptor de corriente esté apagado antes de realizar la instalación.**
- **Desconecte el balasto convencional (CCG) del artefacto como se muestra en la Figura 10.**
- **Extraiga y deseche el balasto (CCG), el arrancador y los cables sobrantes.**
- **Cambie el cableado de acuerdo con la Figura 11.**
- **Encienda el interruptor.**

Figura 10

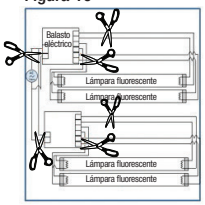
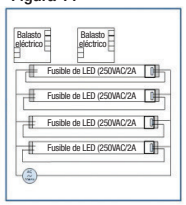


Figura 11



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