

Installation Instruction

LED T8 BYPASS

(8FT, Fa8 & R17d, Selectable CCT)

Applicable models:
HD-T8BPSP/8F/3CCT/F/DE/120-347V

IMPORTANT: Read before installing fixture. Retain for future reference.

WARNING

- **DANGER: Risk of fire or electric shock. Disconnect power before installation.**
- **WARNING:** LED Retrofit Kit installation requires knowledge of luminaire electrical systems. If not qualified, do not attempt installation. Contact a qualified electrician.
- **WARNING:** Product must be installed in accordance with the national electrical code or your local electrical code. If you are not familiar with these codes and requirements, contact a qualified electrician.
- **WARNING:** Install this kit only in luminaires that have the construction features and dimensions shown in the photographs and/or drawing and where the input rating of the retrofit kit does not exceed the input rating of the luminaire.
- **WARNING:** To prevent wiring damage or abrasion, do not expose wiring to edges of sheet metal or other sharp objects. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit 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 ballast and make new electrical connections to lampholder lead wires by employing applicable connectors.
- **WARNING:** Luminaire wiring and electrical parts may be damaged when installing of retrofit kit hardware. Check for enclosed wiring and components.
- **WARNING:** Check the existing wiring for damage before installing upgrade kit. Do not install if existing wires are damaged.
- **This retrofit kit is accepted as a component of a luminaire where the suitability of the combination shall be determined by authorities having jurisdiction.**
- "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 lamping.
- Do not use with dimmers.
- Suitable for damp locations. Suitable for use in enclosed luminaires. See chart below for minimum lamp compartment dimensions.
- This device is not intended for use with emergency exits.
- 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.
- This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

APPLICATIONS

Widely used in residential buildings, offices, shopping malls, supermarkets, hospitals, assembly lines, warehouses, etc. for energy saving illumination.

INSTALLATION

STEP 1: Turn power OFF.

STEP 2: Remove lens or diffuser (if applicable) and existing fluorescent lamps.

STEP 3: Open/remove ballast wiring compartment cover.

STEP 4: Identify the line and neutral wires running from the breaker box to the ballast and confirm the power is off using voltmeter.

STEP 5: Cut all wires connected to ballast, and remove ballast (and starter if present). Dispose of removed ballast and fluorescent lamps in accordance with government regulation in your area.

STEP 6: LED T8 lamps are designed for double-ended connections only. See Figures 1 & 2.

STEP 7: For Fa8 (single-pin) wiring, connect grounded (neutral) branch circuit "N" (L1) to lampholder "A". Connect ungrounded (line) branch circuit "L" to lampholder "B".

STEP 8: Wire using appropriate wiring diagram. See Figures 3 & 4.

STEP 9: For wiring without the neutral line "N," the second hot lead "L" must be connected to the neutral (L1) on the fixture/socket.



Lampholder A

"A" lampholder connect to branch circuit N (L1) **first** before "B".



Lampholder B

"B" lampholder connect to branch circuit L.

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Double-ended connection

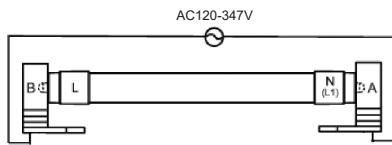


Figure 1: Single-Pin Fa8

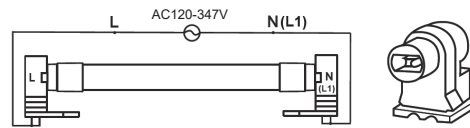
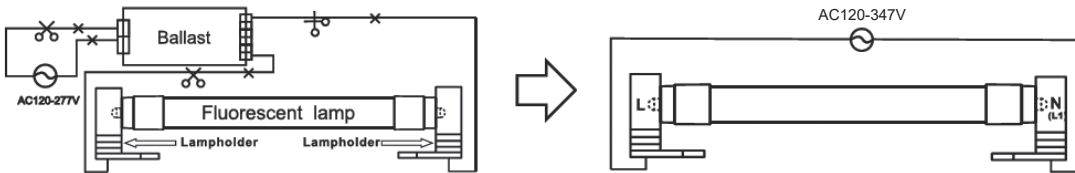
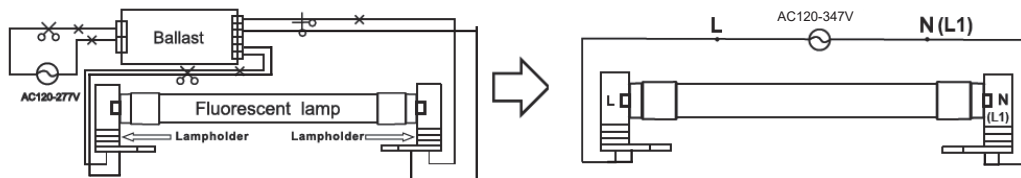


Figure 2: Bi-Pin R17d

Figure 3: Retrofit with One Lamp

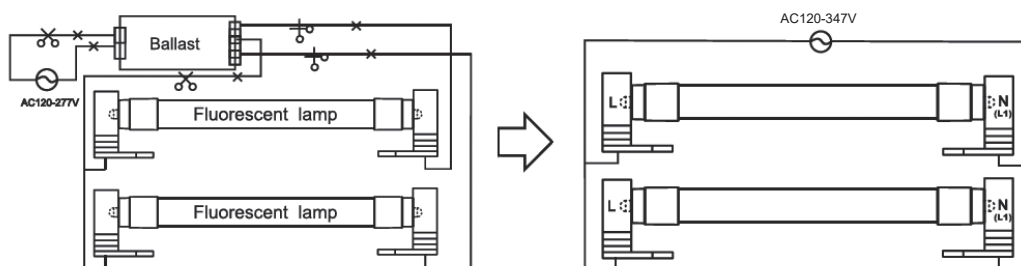


Single-Pin Fa8

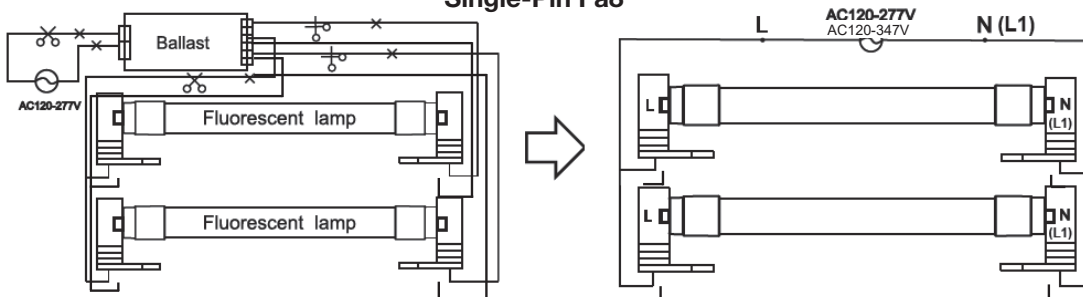


Bi-Pin R17d

Figure 4: Retrofit with Two Lamps

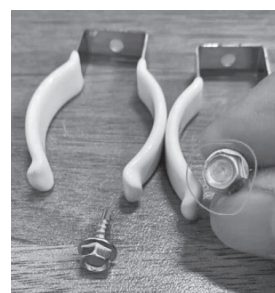


Single-Pin Fa8



Bi-Pin R17d

Figure 5: Optional Clip Accessory



STEP 10: Reinstall the ballast cover to hide all wires.

STEP 11: To install optional clip accessory (T8-CLIP):
See Figure 5.

STEP 12: Install your new LED T8 replacement
lamps.

STEP 13: Apply Relamping Label on visible location inside
the fixture.

STEP 14: Reinstall lens or diffusion cover on the light fixture.

STEP 15: Turn power ON at the breaker box. Turn ON the
lights. Installation is complete.

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PLEASE READ AND FOLLOW ALL SAFETY INSTRUCTIONS.

"THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS"

“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."

AVERTISSEMENT - RISQUE D'INCENDIE ET DE DÉCHARGE ÉLECTRIQUE. L'INSTALLATION D'UN système DEL NéCESSITE UNE CONNAISSANCE DES système électriques POUR luminaires. N'ENTREPRENEZ AUCUNE INSTALLATION SI VOUS N'ÊTES PAS QUALIFIÉ. CONTACTEZ UN ÉLECTRICIEN QUALIFIÉ.

“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 and where the input rating of the retrofit kit does not exceed the input rating of the luminaire."

AVERTISSEMENT - RISQUE D'INCENDIE OU DE CHOC ÉLECTRIQUE. INSTALLER CE KIT SEULEMENT DANS DES LUMINAIRES QUI AYANT LES CARACTÉRISTIQUES DE CONSTRUCTION ET LES DIMENSIONS MENTIONNÉES DANS LES PHOTOGRAPHIES ET / OU LES DESSINS ET OÙ LA VÉRIFICATION D'ENTRÉE DU KIT RETROFIT NE DÉPLACE PAS LA VALEUR D'ENTRÉE DU LUMINAIRE. Do not make or alter any open holes in an enclosure of wiring or electrical components during kit installation

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

AVERTISSEMENT - AFIN D'ÉVITER TOUT DOMMAGE OU ABRASION AU SYSTÈME DE CÂBLES, NE PAS EXPOSER CE DERNIER À DES BORDS DE PLAQUES EN MÉTAL OU À DES OBJETS TRANCHANTS. "THE RETROFIT KIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION. PRODUCT MUST BE INSTALLED BY A QUALIFIED ELECTRICIAN IN ACCORDANCE WITH THE APPLICABLE AND APPROPRIATE ELECTRICAL CODES. THE INSTALLATION GUIDE DOES NOT SUPERSEDE LOCAL OR NATIONAL REGULATIONS FOR ELECTRICAL INSTALLATIONS.

LE NéCESSAIRE DE MODERNISATION EST ACCEPTÉ à TITRE DE COMPOSANT D'UN LUMINAIRE LORSQUE LA PERTINENCE DE LA COMBINAISON DOIT ÊTRE DÉTERMINÉE PAR LES AUTORITÉS COMPÉTENTES. CE PRODUIT DOIT ÊTRE MIS EN PLACE PAR UN ÉLECTRICIEN QUALIFIÉ CONFORMÉMENT AUX CODES ÉLECTRIQUES APPROPRIÉS APPLICABLES. LE GUIDE D'INSTALLATION NE SUPPLANTE PAS LES RÈGLEMENTS LOCAUX OU NATIONAUX.

"Not for use with light dimmers"

"THIS DEVICE IS NOT INTENDED FOR USE WITH EMERGENCY EXITS"

"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."

“WARNING : To avoid potential fire or shock hazard, do not use this retrofit kit in luminaires employing shunted bi-pin lampholders. Note: Shunted lampholders 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."

AVERTISSEMENT - AFIN D'ÉVITER TOUT RISQUE D'INCENDIE OU DE DÉCHARGE, NE PAS UTILISER CE SYSTÈME POUR DES LUMINAIRES UTILISANT DES DOUILLES DE LAMPE BI-CONTACTS COURT-CIRCUITÉES. NOTE : LES DOUILLES DE LAMPE BI-CONTACTS COURT-CIRCUITÉES SE TROUVENT GÉNÉRALEMENT DANS LES LUMINAIRES FLUORESCENTS AVEC BALLASTS À ALLUMAGE INSTANTANÉ. CES DERNIERS S'IDENTIFIENT PAR LES TERMES « INSTANT START » OU « I.S. ». CES TERMES PRENNENT LA FORME D'UN ÉNONCÉ RELATIF AU BALLAST MÊME OU PEUVENT ÊTRE AJOUTÉS AUX INDICATIONS CONCERNANT LES LAMPES AVEC LESQUELLES LES BALLASTS DOIVENT ÊTRE UTILISÉS (PAR EXEMPLE, F40T12/IS). POUR DE PLUS AMPLES RENSEIGNEMENTS, VEUILLER COMMUNIQUER AVEC LE FABRICANT DU SYSTÈME DE LUMINAIRE DEL.

Type B LAMP – intended for operation in luminaires with traditional fluorescent-type lampholders wired directly to the branch circuit. This includes both factory-wired luminaires as well as those converted for this purpose under a retrofit program.