



PRODUCT IDENTIFICATION

Product Models: All RKS Series Linear LED Retrofit Kits.

Product Description: LED retrofit kit, w/magnetic LED strip(s) and driver.

- Models RKS1420, RKS2420, RKS2430, RKS3430, RKS2440, RKS3440, RKS2450, and RKS3450 - Suitable for field installation in any recessed linear fluorescent luminaire with minimum nominal overall dimensions of 48 in. long x 5 in. wide, by 1.5 in. deep.
- Models RKS2220, RKS3220, RKS2230, and RKS3230 - Suitable for field installation in any recessed linear fluorescent luminaire with minimum nominal overall dimensions of 24 in. long x 5 in. wide, by 1.5 in. deep.

RKS MODEL NOMENCLATURE

RKSXXXX-XX where:

RKS = Retrofit Kit Standard

4th digit = “1”, “2”, or “3”, indicating the number of linear LED packages, or “strips”.

5th digit = “2” or “4”, indication nominal length of linear LED packages, or “strips”.

6th digit = “20”, “30”, “40”, or “50”, indicating nominal system wattage

7th and 8th digit = “30”, “40,” or “50”, indicating nominal LED CCT or “Color Temperature”

ELECTRICAL SPECIFICATIONS:

Input voltage: 90-277VAC, 50-60Hz

Output voltage: 30-42VDC, (see Table 1)

SUITABLE FOR DAMP LOCATIONS

Classification Mark: LED RETROFIT LUMINAIRE CONVERSION FOR USE ONLY WITH LINEAR
FLUORESCENT LUMINAIRES IN ACCORDANCE WITH THE INSTRUCTIONS
PROVIDED WITH THIS RETROFIT KIT, E490740

COMPONENTS INCLUDED IN THIS KIT:

1. (1) LED Driver with magnetic back and quick-connect output harness
2. (1, 2 or 3) LED light strips with magnetic back and quick-connect plug (see Model Nomenclature paragraph on Page 1)
3. (1) “Y” harness or “Tri” harness with quick-connects to connect driver to LED strips
4. Installation and Safety Instructions
5. (1) Retrofit Kit Luminaire label with identifying model numbers

Table 1

Model No.	Input Volts (V)	Frequency (Hz)	System Watts (W)	Output Current (mA)	LED Modules	LED Drivers	Location Type
RKS1420	120/277	50/60	20	480	1	1	Damp
RKS2420	120/277	50/60	20	480	2	1	Damp
RKS2430	120/277	50/60	30	720	2	1	Damp
RKS3430	120/277	50/60	30	720	3	1	Damp
RKS2440	120/277	50/60	40	960	2	1	Damp
RKS3440	120/277	50/60	40	960	3	1	Damp
RKS2450	120/277	50/60	50	1200	2	1	Damp
RKS3450	120/277	50/60	50	1200	3	1	Damp
RKS2220	120/277	50/60	20	480	2	1	Damp
RKS3220	120/277	50/60	20	480	3	1	Damp
RKS2230	120/277	50/60	30	720	2	1	Damp
RKS3230	120/277	50/60	30	720	3	1	Damp

INSTALLATION INSTRUCTIONS

CRITICAL SAFETY NOTE: Read all instructions before beginning installation

- **WARNING – RISK OF FIRE OR ELECTRIC SHOCK. INSTALLATION OF THIS RETROFIT ASSEMBLY REQUIRES A PERSON FAMILIAR WITH THE CONSTRUCTION AND OPERATION OF THE LUMINAIRE ELECTRICAL SYSTEM AND THE HAZARD INVOLVED. IF NOT QUALIFIED, DO NOT ATTEMPT INSTALLATION. CONTACT A QUALIFIED ELECTRICIAN**
- **WARNING – RISK OF FIRE OR ELECTRIC SHOCK. INSTALL THIS KIT ONLY IN LUMINAIRES THAT HAVE THE CONSTRUCTION FEATURES AND DIMENSIONS SPECIFIED, AND WHERE THE INPUT RATING OF THE RETROFIT KIT DOES NOT EXCEED THE INPUT RATING OF THE LUMINAIRE**
- **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**
- **WARNING – TO PREVENT WIRING DAMAGE OR ABRASION, DO NOT EXPOSE WIRING TO EDGES OF SHEET METAL OR OTHER SHARP OBJECTS**
- **THE RETROFIT IS ACCEPTED AS A COMPONENT OF A LUMINAIRE WHERE THE SUITABILITY OF THE COMBINATION SHALL BE DETERMINED BY AUTHORITIES HAVING JURISDICTION**
- **BRANCH-CIRCUIT CONDUCTORS WITHIN 75 MM (3 IN.) OF A LED DRIVER SHALL HAVE AN INSULATION TEMPERATURE RATING NOT LOWER THAN 90°C (194°F) UNLESS SUPPLYING A LUMINAIRE MARKED AS SUITABLE FOR A DIFFERENT INSULATION TEMPERATURE**

INSTALLATION PROCEDURE:

1. Shut off power to luminaire
2. Open or remove luminaire lens or grille (if present).
3. Remove fluorescent lamps and ballast cover(s). (See figure 1)
4. Confirm that the branch circuit voltage of your electrical system is compatible with this kit
5. Disconnect input power from ballast and remove existing ballast, sockets, brackets and socket wiring. (see figure 2)
6. Place driver inside the ballast box, allowing the magnet to hold it in place temporarily. (see figure 3)
7. Connect power input wires to the input wires on the LED driver. IMPORTANT NOTE: TWIST-ON OR PUSH-ON CONNECTORS MUST BE RATED FOR A MINIMUM OF 600V (see figure 4)
8. Permanently secure driver to the luminaire body with #8 x 1/2" or shorter self-tapping screws, through the mounting flanges on the driver case. Be certain that there are no power wires in the path of the screws. (see figure 5)
9. Be certain that "Line" wire is connected to the black input wire of driver, and that "Neutral" wire is connected to the white input wire of driver.
10. Be certain that the ground wire of the power circuit remains connected to the *body* of the luminaire.
11. Connect the LED driver output to the "Y" harness, and reinstall the ballast cover(s), covering the driver and all electrical connections. Route the harnesses out the end of the ballast cover, in such a way as to not expose them to any sharp edges, or pinch them between any metal surfaces. (see figure 6)
12. One at a time, plug the LED strip(s) into the "Y" harnesses and insert them into/onto the body of the luminaire. (see figure 7).
13. At this time, you may temporarily turn on power to test retrofitted luminaire
14. Permanently affix the Retrofit Kit label to the body of the luminaire in a conspicuous place, where it will be plainly visible when the fixture is opened for service
15. Close or reinstall the lens/grille/cover and restore power to luminaire



Figure 1



Figure 2

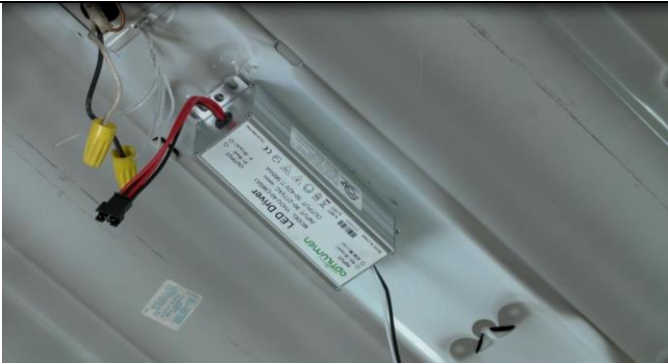


Figure 3

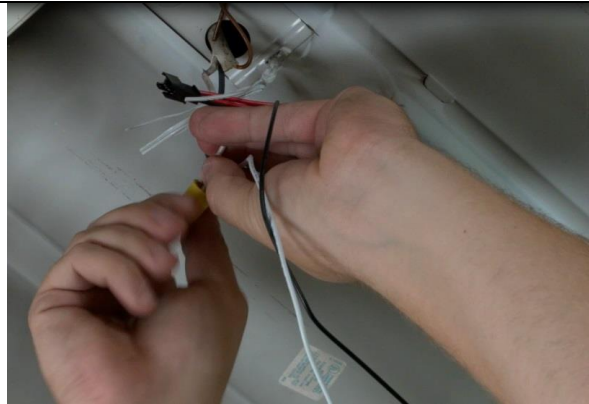


Figure 4



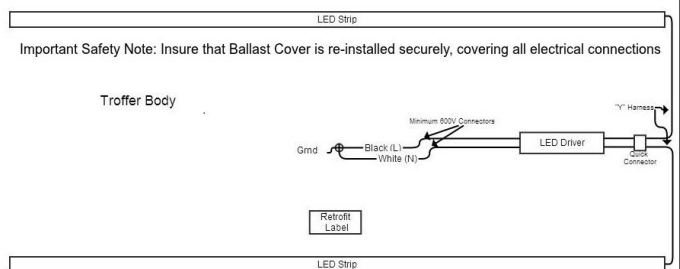
Figure 5



Figure 6



Figure 7



Typical Wiring Diagram