

HUSSMANN® Excel

Excel 3-Pin Shelf Lamp LED Retrofit

PARTS LIST

Item	Quantity	Description / PN
1.	Refer to Table Below	Power Supply / PN 4481861
2.	1 per Light Bar	LED Lamp Adapter / PN 4481863
3.	1 per Shelf	LED Light Bar / (SEE PAGE 2)

NOTE: Hussmann recommends using butt connectors with Heat Shrink for all field connections.

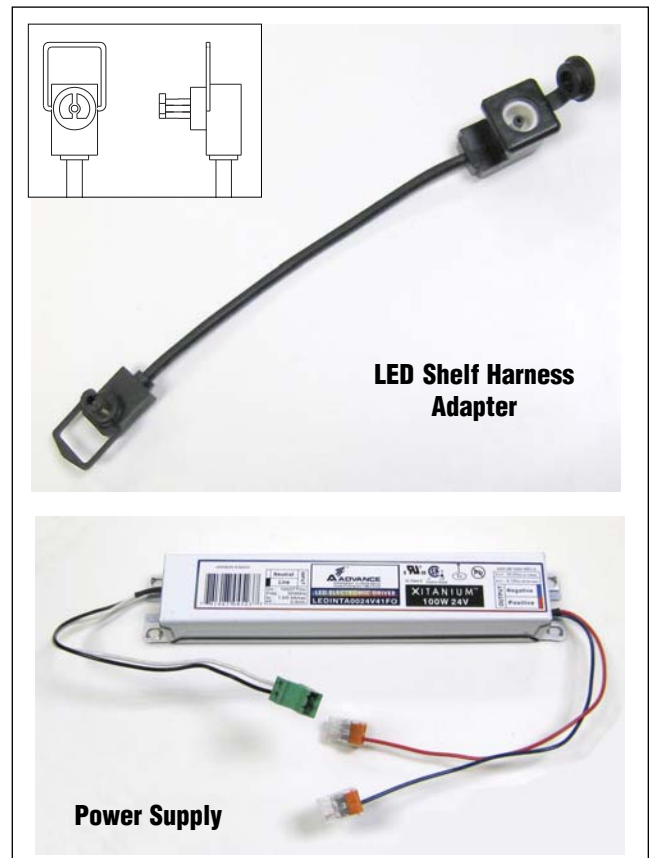
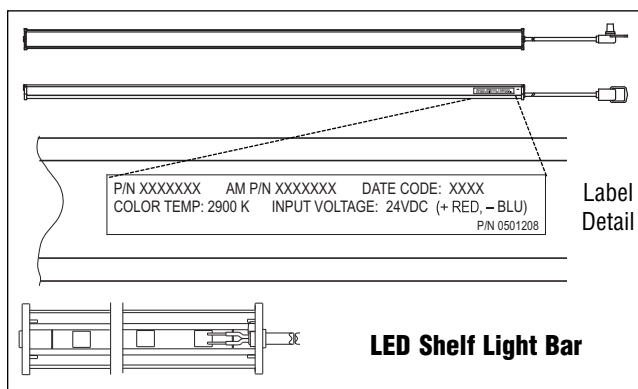
Number of Shelves	4 Ft Case		8 Ft Case		12 Ft Case	
	EXISTING	REPLACEMENT	EXISTING	REPLACEMENT	EXISTING	REPLACEMENT
	Ballast / Harness	Power Supply / Harness	Ballast / Harness	Power Supply / Harness	Ballast / Harness	Power Supply / Harness
2	1 / 1	1 / 1	2 / 2	1 / 2	3 / 3	1 / 3
3	1 / 1	1 / 1	2 / 2	1 / 2	3 / 3	1 / 3
4	2 / 2	1 / 2	2 / 4	2 / 4	3 / 6	2 / 6
5	2 / 2	1 / 2	4 / 4	2 / 4	6 / 6	2 / 6

All equipment should be thoroughly examined for shipping damage before and during unloading.

This equipment has been carefully inspected at our factory. Any claim for loss or damage must be made to the carrier. The carrier will provide any necessary inspection reports and/or claim forms.

Every effort is made to ship all parts for the kit. The Hussmann Service Center can be reached by calling

- from U.S. & Canada 1-800-922-1919 •
- from Mexico 1-800-522-1900 •



Revision C updates Page 1 table.

**P/N 0504715_C
November 2010**

LED LAMP RETROFIT

This kit explains how to remove OEM fluorescent shelf light fixtures and replace them with LED light bars.

Length	LED Light Bar	
	Color	PN
4-ft	2900K HCRI	4441590
4-ft	3500K HCRI	4441591
4-ft	3500K	4441592
4-ft	4100K	4441593
3-ft	2900K HCRI	4441586
3-ft	3500K HCRI	4441587
3-ft	3500K	4441588
3-ft	4100K	4441589

1 Turn off power to the case.

⚠ WARNING

ALWAYS disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as fans, heaters, thermostats and lights.

2 Remove the first row of fluorescent bulbs and shields from the canopy.

3 Remove screws that hold light channel in place. Allow channel to rotate down and hang in case.

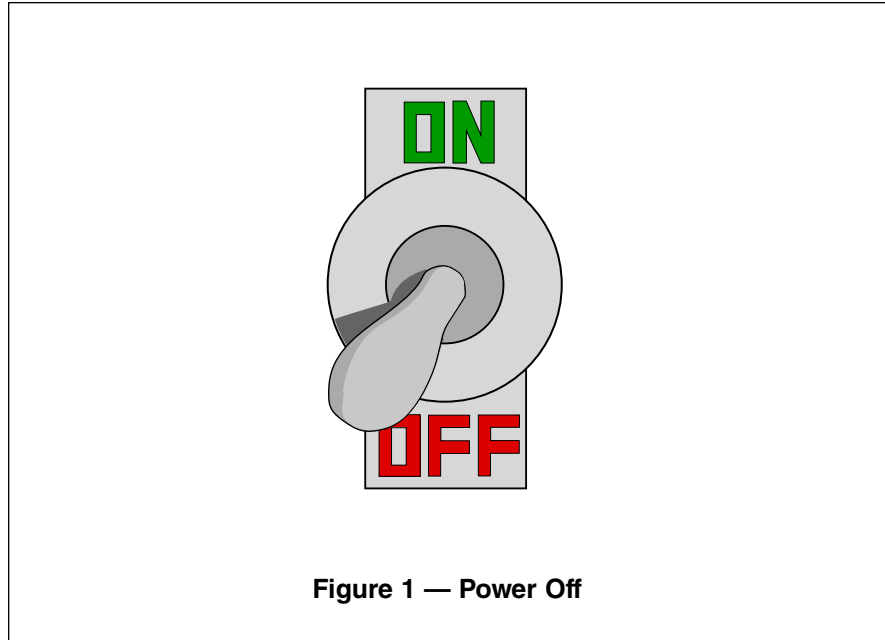
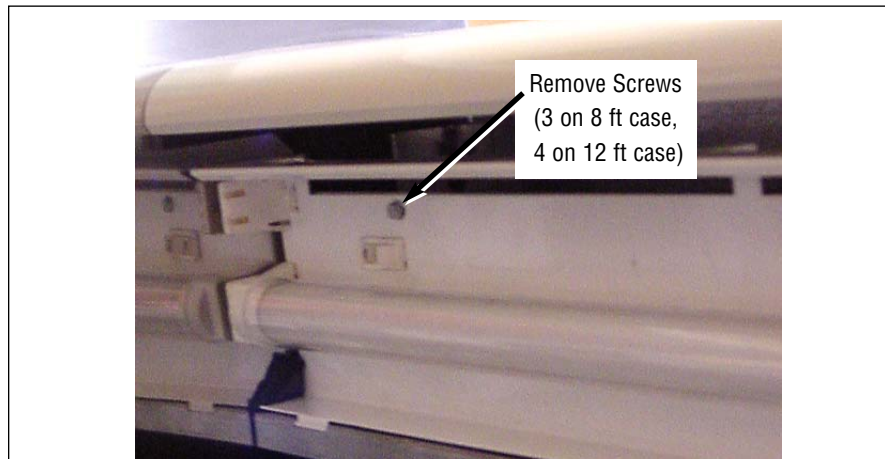


Figure 1 — Power Off



Remove Front Lamp Assembly to Access Screws

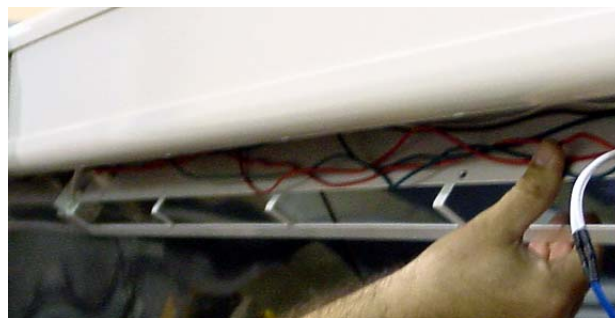


Figure 2 — Lower Canopy

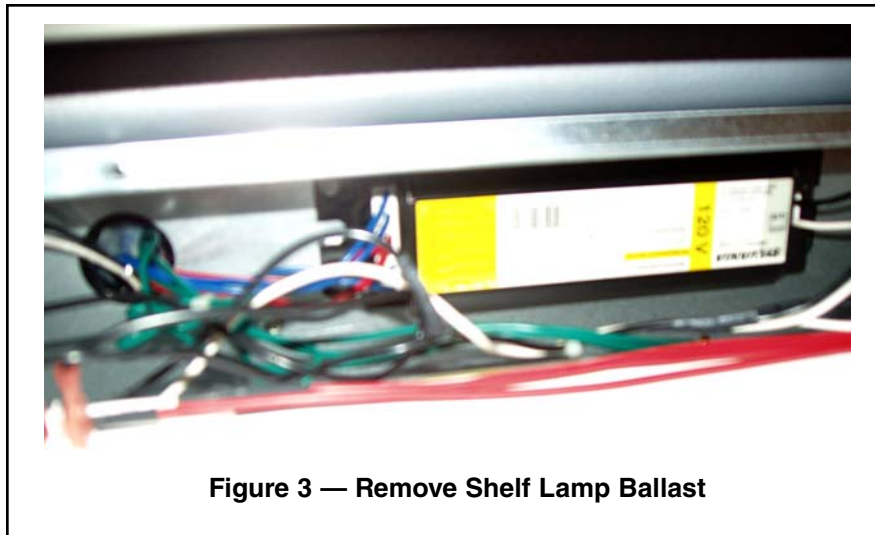
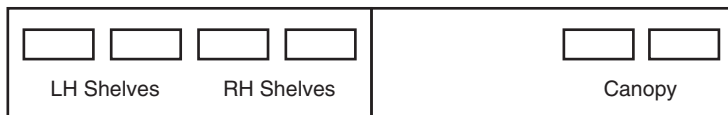


Figure 3 — Remove Shelf Lamp Ballast

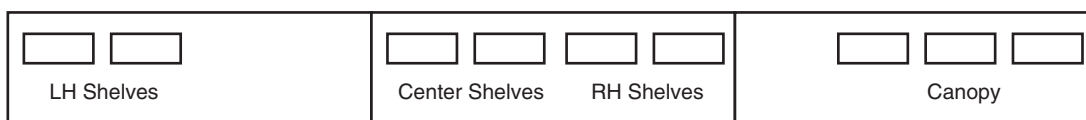
4 Disconnect wires from shelf lamp ballast. Note the color of power source wire.

Remove shelf lamp ballast.

6 ft & 8 ft



12 ft



Canopy and Shelf Ballast Arrangement

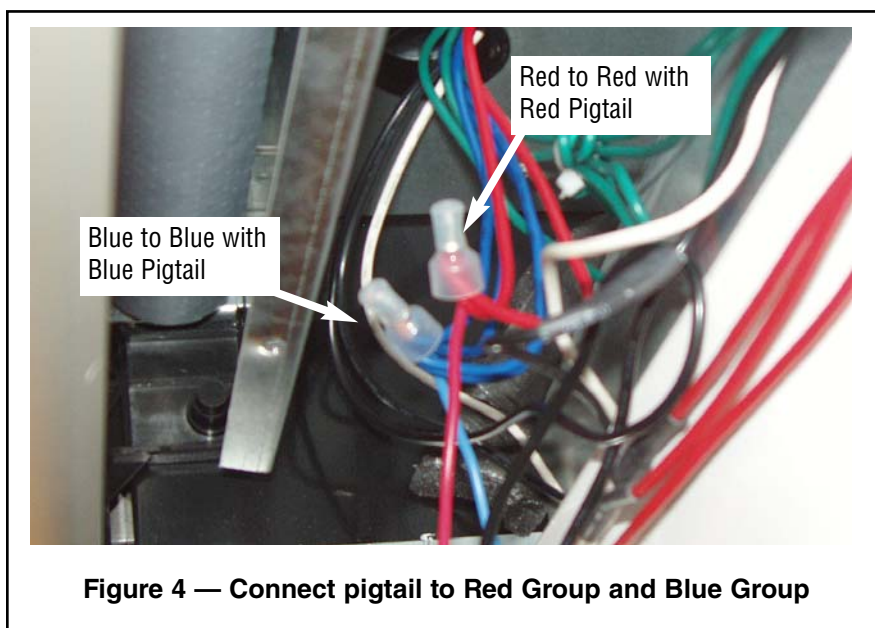


Figure 4 — Connect pigtail to Red Group and Blue Group

5 Fasten all red wires together. Fasten all blue wires together. Add pigtail of the same color (red or blue) to each group.

NOTE: Hussmann recommends using butt connectors with Heat Shrink for all field connections.

- 6** Install **Power Supply – 1** in the spot where ballast was removed.
- 7** Connect colored pigtail to same color power leads on **Power Supply – 1** (red with red, blue with blue).
- 8** Connect **Power Supply – 1** to power source wire.



Figure 5 — Install Power Supply

- 9** Rotate light channel back into place, being careful not to pinch or damage any wires. Replace screws. Install fluorescent lamps with shields.

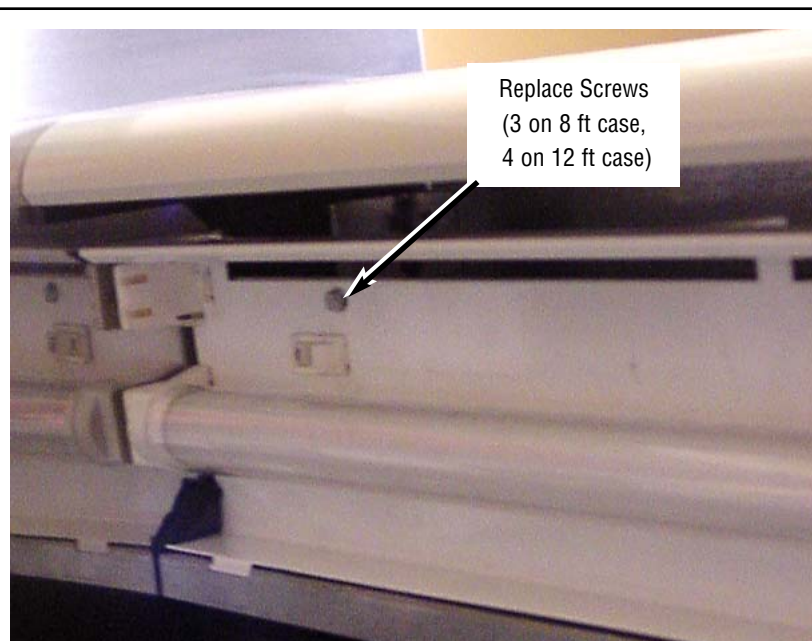


Figure 6 — Replace Canopy, Lamps and Shields

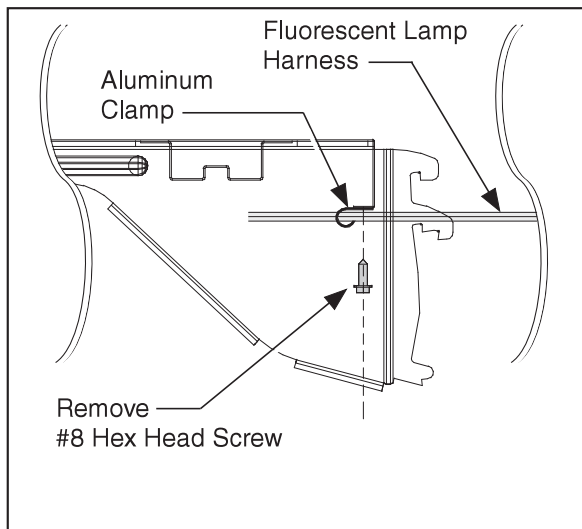


10 Unplug fluorescent shelf lamp from back panel.

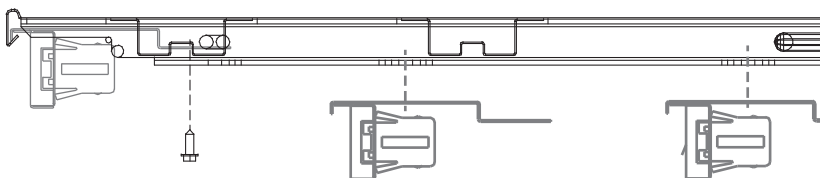
Remove the fluorescent tube and shield from the shelf light bar.

Remove the harness clip at rear of shelf.

Remove the light bar by removing the screws that hold it to the shelf.



Do not break or puncture fluorescent lamps. Dispose of all fluorescent lamps in accordance with Federal, State, and Local hazardous waste requirements.



Note: 24-inch shelf shown

Figure 7 — Remove Existing Light Bar Assembly

11 Insert an **LED Lamp Adapter – 2** into a receptacle in the back panel. Refer to Figures 8 and 9.

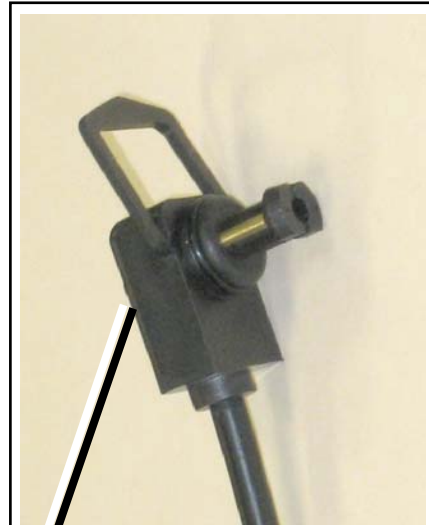


Figure 8 — 3-Pin LED Shelf Adapter Upright End



Figure 9 — Plug Adapter into Back Panel

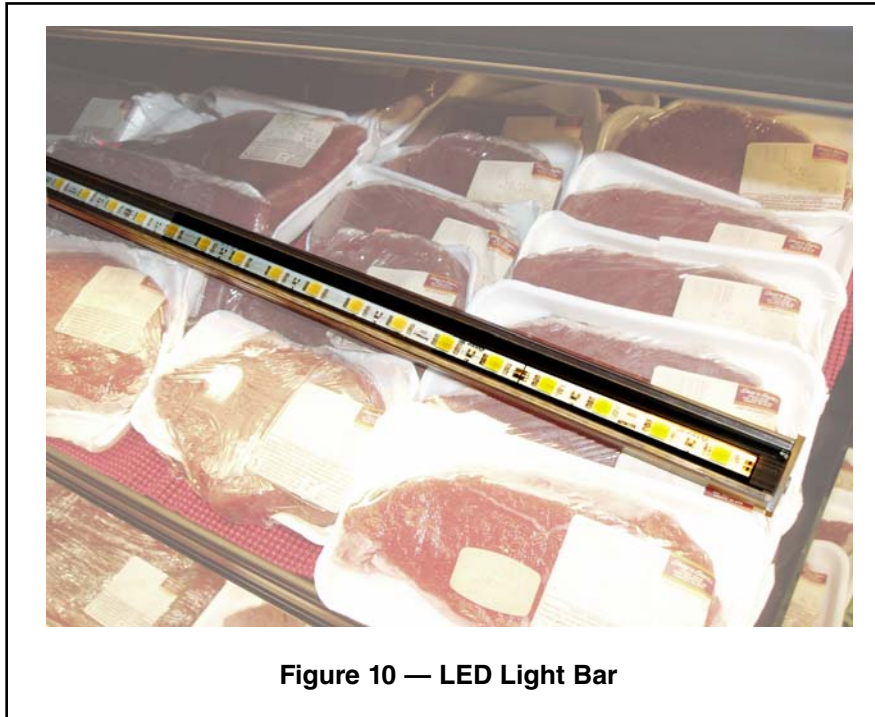


Figure 10 — LED Light Bar

12 Position the magnetic LED Light Bar – 3 under the shelf.



Figure 11 — LED Shelf Adapter — Light Bar End

13 Insert the plug from the LED Light Bar – 4 into the free end of LED Lamp Adapter – 3.

14 Use a tie wrap to contain excess adapter wire. Do not allow wire to lie on product or hang loose. The clip removed in Step 10 can be reused.

Free cord length from last clip (strain relief) to outlet must be less than 12 inches (305 mm). Longer lengths must be constrained.

Review HSB-008A-BTN. Inspect all shelf lamp plugs and receptacles for arcing, corrosion or other damage. Replace as necessary.



Figure 12 — Adapter Wiring

15 Restore power to case.

16 Verify proper operation of all LED light bars.

Wiring diagrams for LED shelf lighting are contained in the Technical Data Sheet for each model.

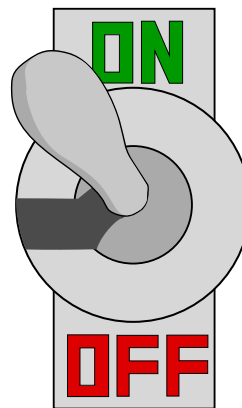


Figure 13 — Power On