

255 LED Light Dual Conversion Installation [9A584001]

Applies to Models:

255 (-001 and -002; -021 and -022)

Special Tools:

none

Language of origin: English

Note

Two single ceiling lights are needed. The ceiling must be capable of supporting the double light system. Weight (max.): 118 lb (53.6 kg); Torque (max.): 172.9 ft-lb (234.4 Nm). Eight foot model shown.

In addition to supporting the weights listed, the ceiling structure must be able to support the light without deflection. To prevent the suspension arm from drifting, the assembly must deflect no more than 1/16" (0.16 mm) over a 12" (30.5 cm) distance.



Caution

- Carefully handle parts near wire harnesses and related components.



Warning

Always disconnect power before removing any covers or components.

Step 1a: Access components in existing single light junction box.

- Turn all light switches OFF (⏻).
- Turn OFF facility power breaker so there is no power in customer supplied wiring.
- Loosen four screws then remove box cover.

If Applicable Only

Step 1b: Remove mounting components and hardware.

- Remove four ceiling cover screws, then lower ceiling cover.
- Disconnect box wiring from down tube wiring.
- Remove mounting hardware from junction box and down tube.
- Disconnect down tube from cross tube/light and remove single ceiling cover.

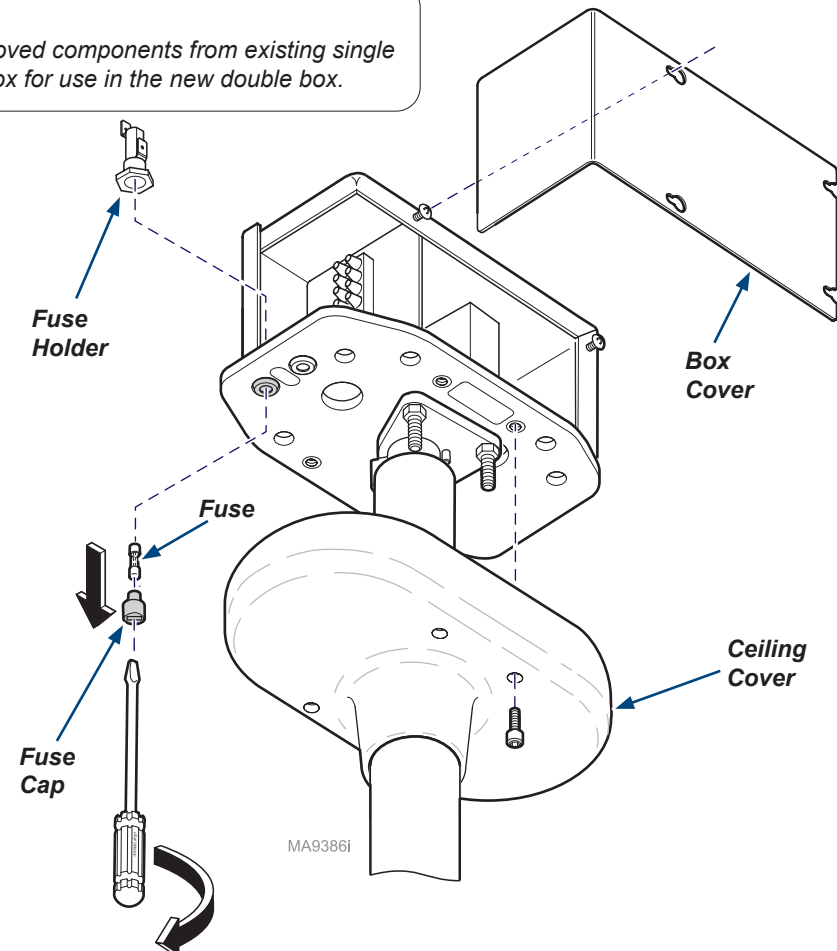
Step 2: Remove fuse from existing single light junction box.

- Using a flat-bladed screwdriver, rotate fuse cap counter-clockwise 1/4 turn while pushing upward.
- Remove fuse holder, fuse and cap.

Note: After removing the fuse, inspect it to determine whether it is faulty. There are two fuses on the double light and one fuse on the single light.

Note

Keep removed components from existing single junction box for use in the new double box.



Note

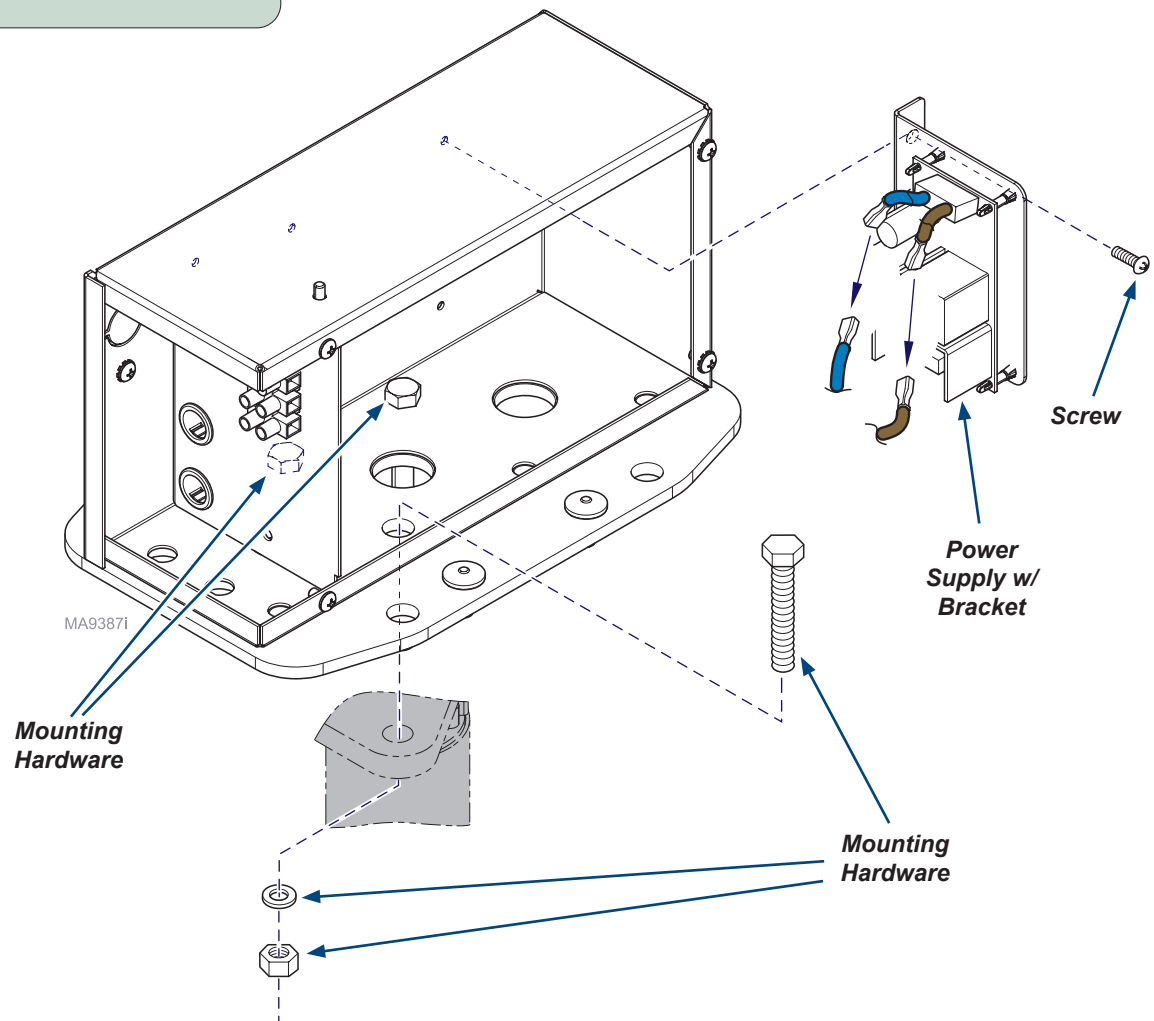
Keep removed components from existing single light junction box for use in new double box.

**Equipment Alert**

Do not damage power supply harnesses or suppressor core.

Step 3: Remove components from existing single light junction box.

- A) Disconnect power supply wiring.
- B) Remove two screws, then remove power supply with bracket.
- C) Remove mounting hardware from down tube.

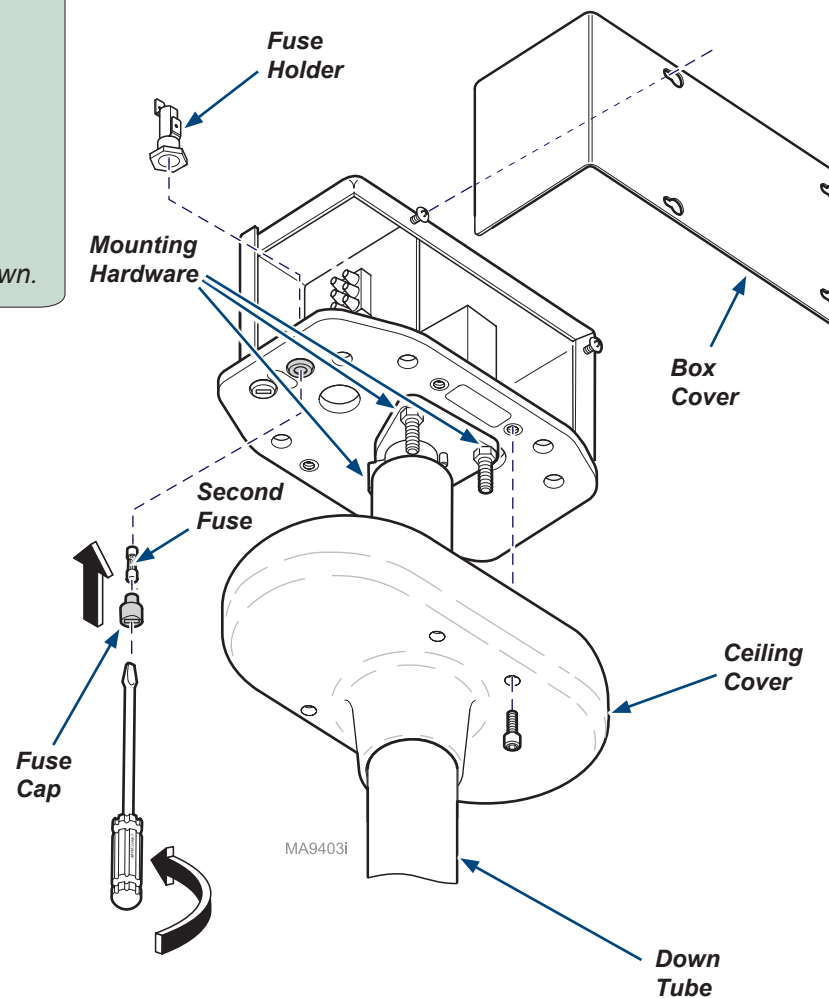
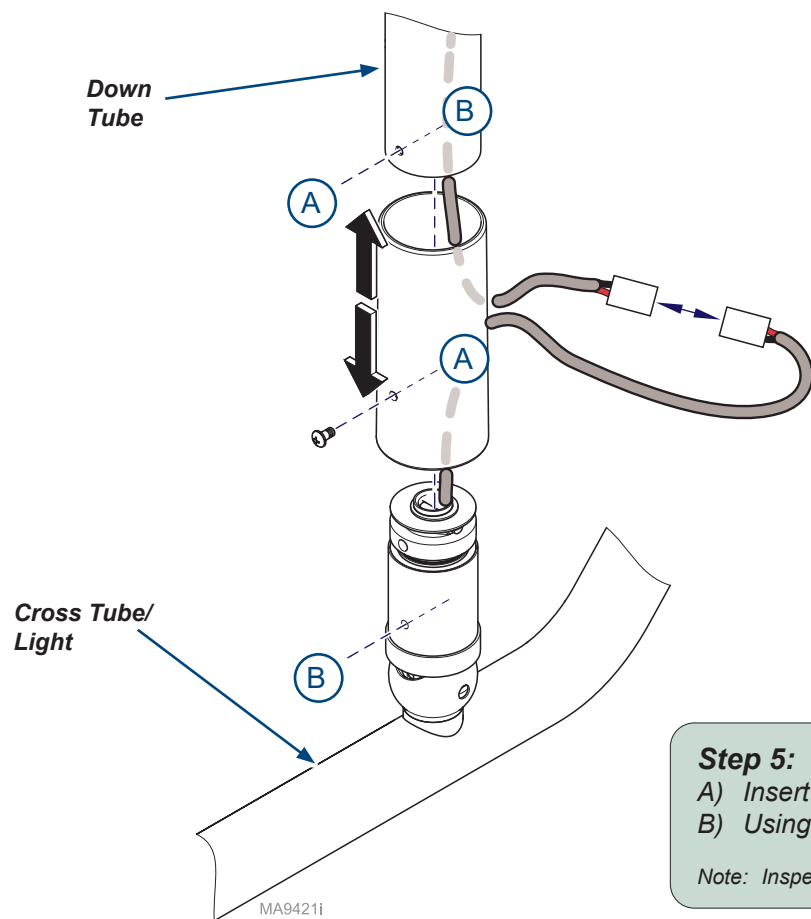


**Warning**

Always disconnect power before removing any covers or components.

Step 4: Access components in double conversion junction box.

- A) If applicable, remove four screws, then lower ceiling cover.
- B) Loosen four screws then remove box cover.
- C) Remove mounting hardware from junction box and down tube.
- D) Disconnect down tube wiring from cross tube wiring.
- E) Disconnect down tube from cross tube/light then, if applicable remove cover as shown.

**Step 5: Install second fuse into double conversion junction box.**

- A) Insert new fuse, fuse holder and cap.
- B) Using a flat-bladed screwdriver, rotate fuse cap clockwise 1/4 turn, while pushing into fuse socket.

Note: Inspect the fuse to determine whether it is faulty. There are two fuses on the double light and one fuse on the single light.

Step 6: Prepare double conversion junction box.

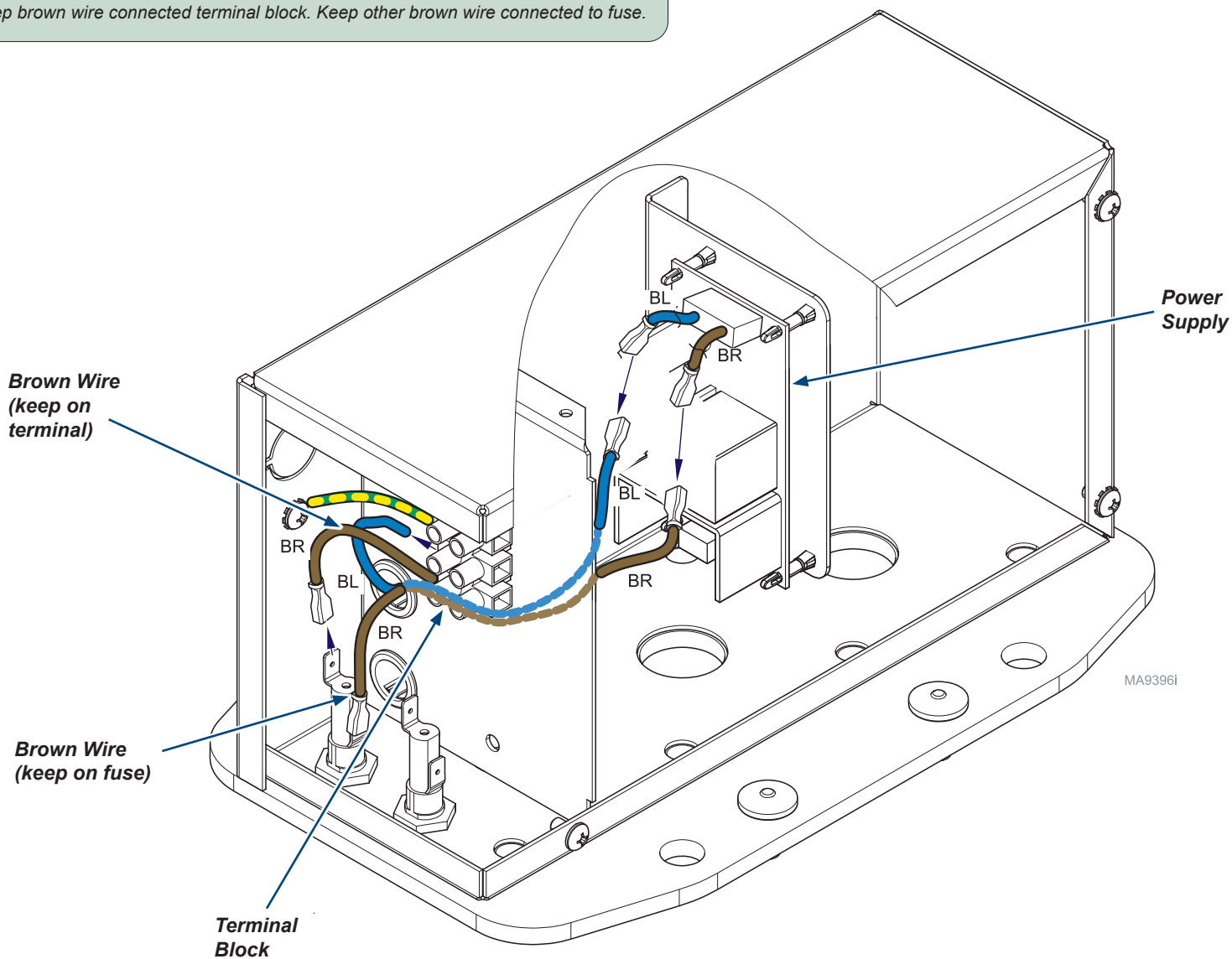
- A) Disconnect power supply wiring at connection shown in box.
- B) Disconnect blue and brown wiring from terminal block.

Note: Keep brown wire connected terminal block. Keep other brown wire connected to fuse.



Equipment Alert

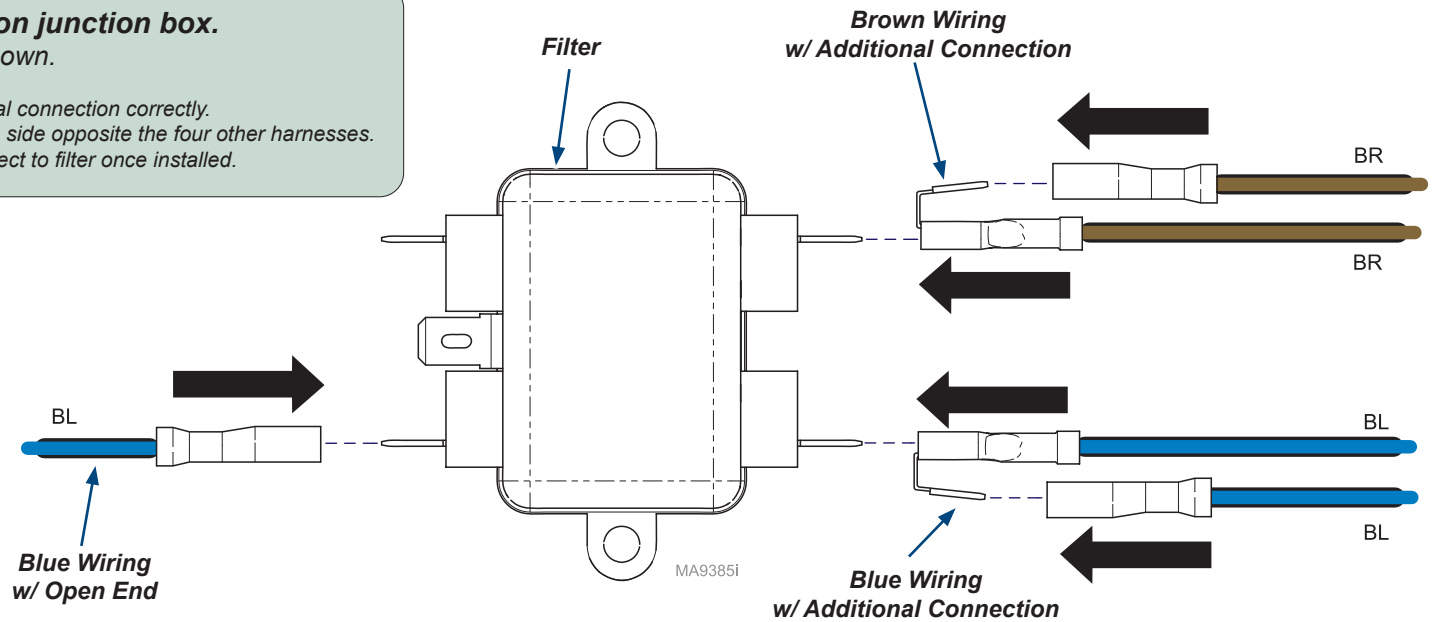
Do not damage power supply harnesses or suppressor core.



Step 7: Prepare double conversion junction box.

A) Install new wiring to new filter as shown.

Note: Install blue and brown wiring with additional connection correctly.
Blue wiring with open end connects on the side opposite the four other harnesses.
Brown wiring from terminal block will connect to filter once installed.



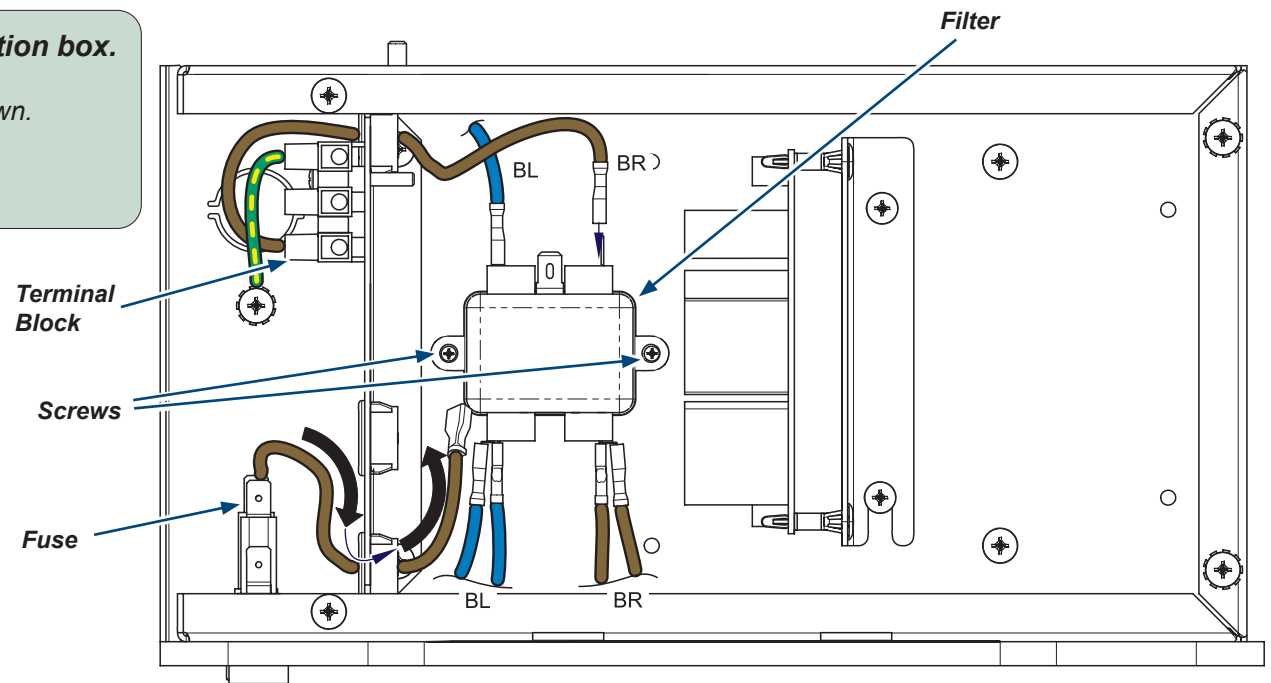
Step 8: Install filter in double conversion junction box.

A) Install filter using screws as shown.

B) Connect brown wiring from terminal to filter as shown.

C) Route brown wiring connected to fuse as shown

Note: Install filter in correct orientation as shown.



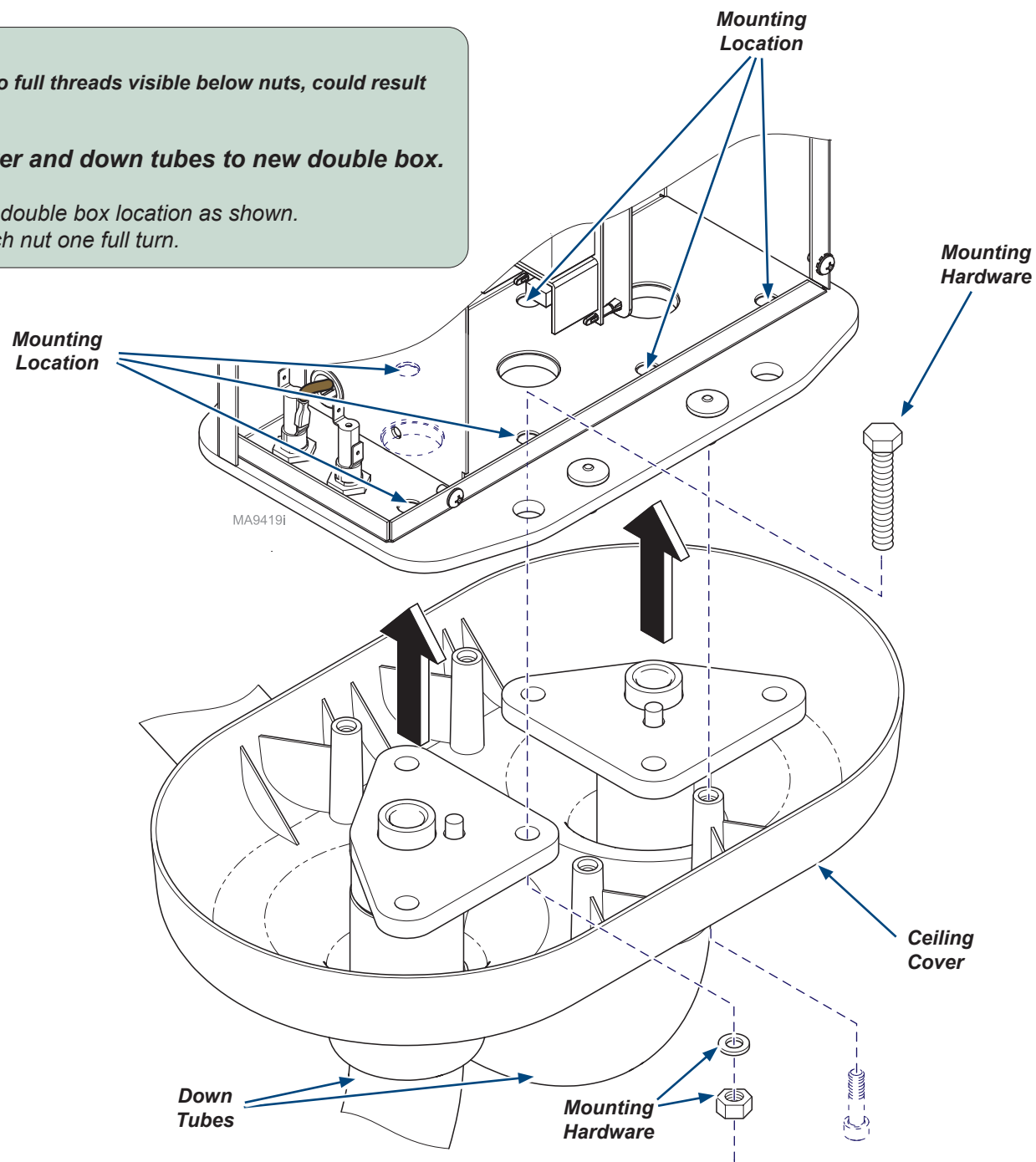
MA9397i

**WARNING**

Failure to install nuts so that there are at least two full threads visible below nuts, could result in unit falling.

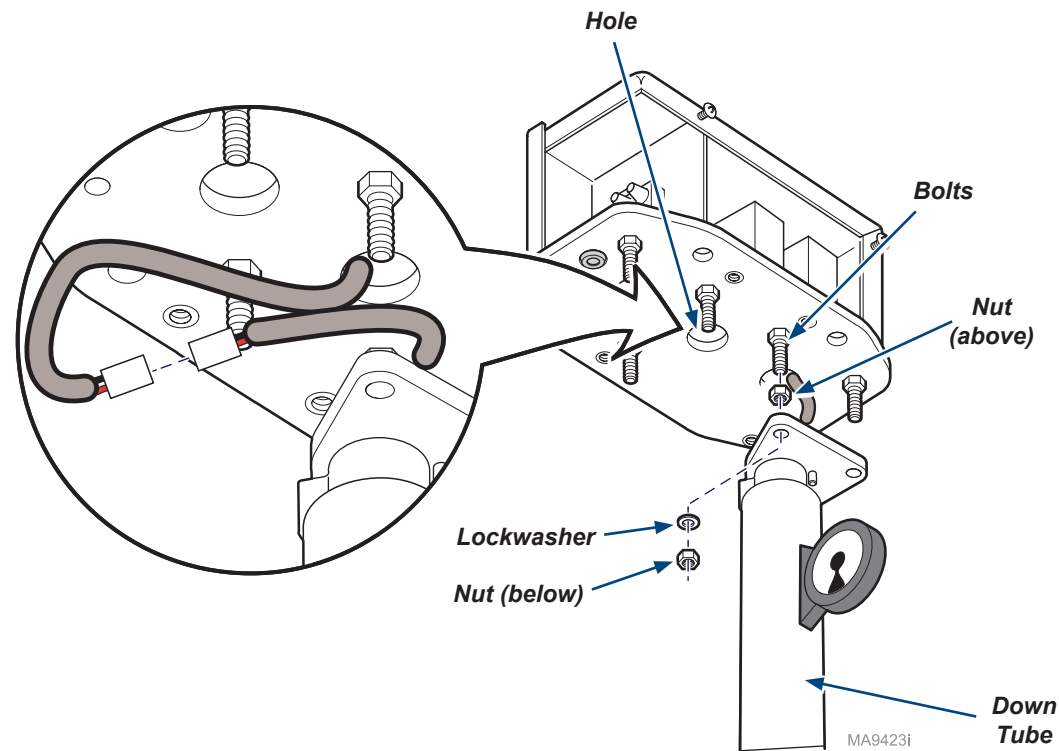
Step 9a: Begin installing new double ceiling cover and down tubes to new double box.

- A) Place new ceiling cover on both down tubes.
- B) Install mounting hardware to each down tube and the double box location as shown.
Thread nuts to bolts until hand-tight; then back off each nut one full turn.



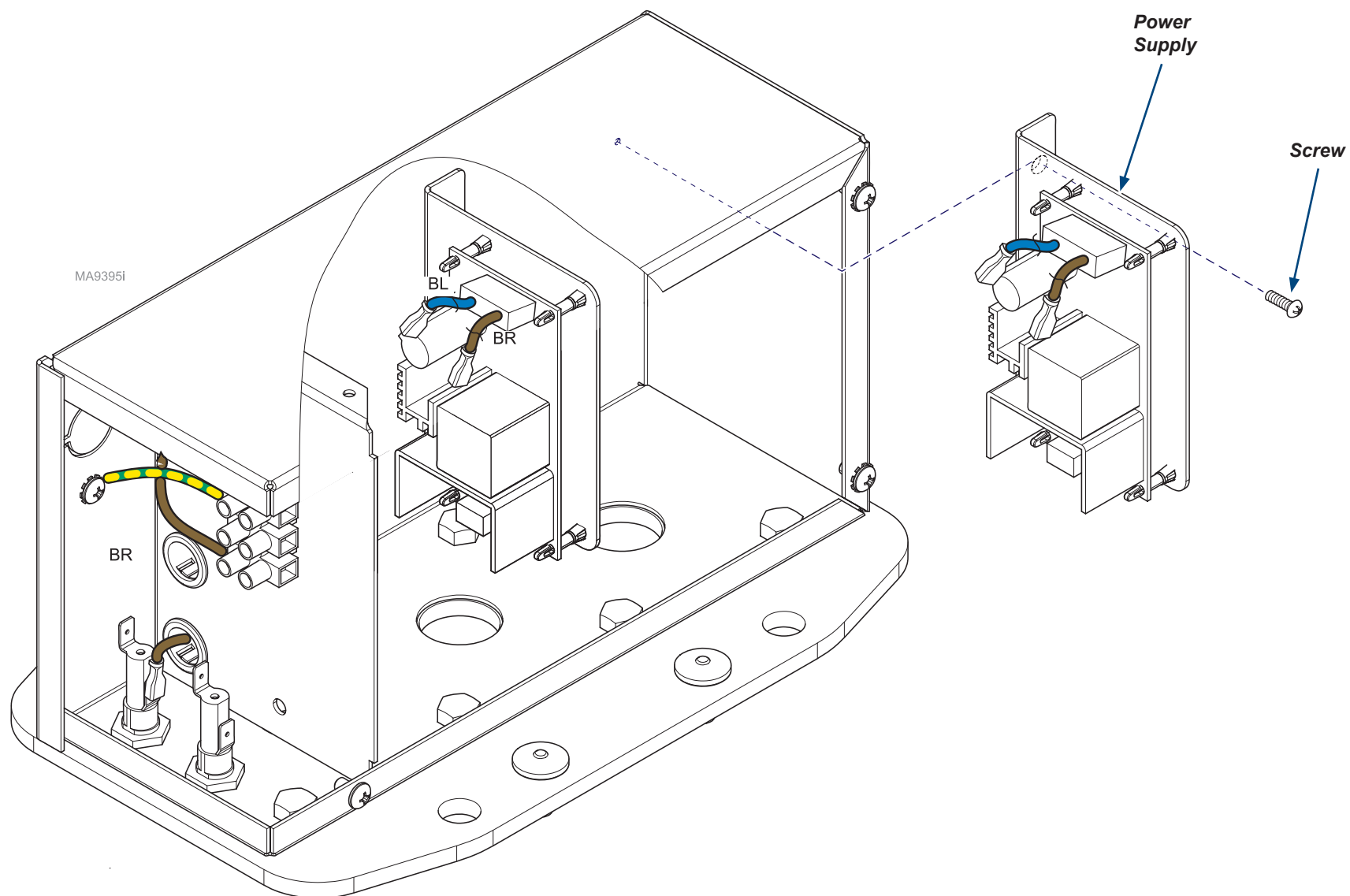
Step 9b: Continue installing down tubes to new double box.

- A) Position down tube near hole.
- B) Connect junction box wiring to down tube wiring.
- C) Under normal circumstances, the down tube should be level enough to provide drift-free operation. If, after complete assembly and operation of the light system, drifting is observed, use a protractor or level to adjust nuts until down tube is vertical (± 0.5 degrees); then tighten nuts.
- D) Repeat steps A through D for remaining down tube.
- E) Install ceiling cover using screws.



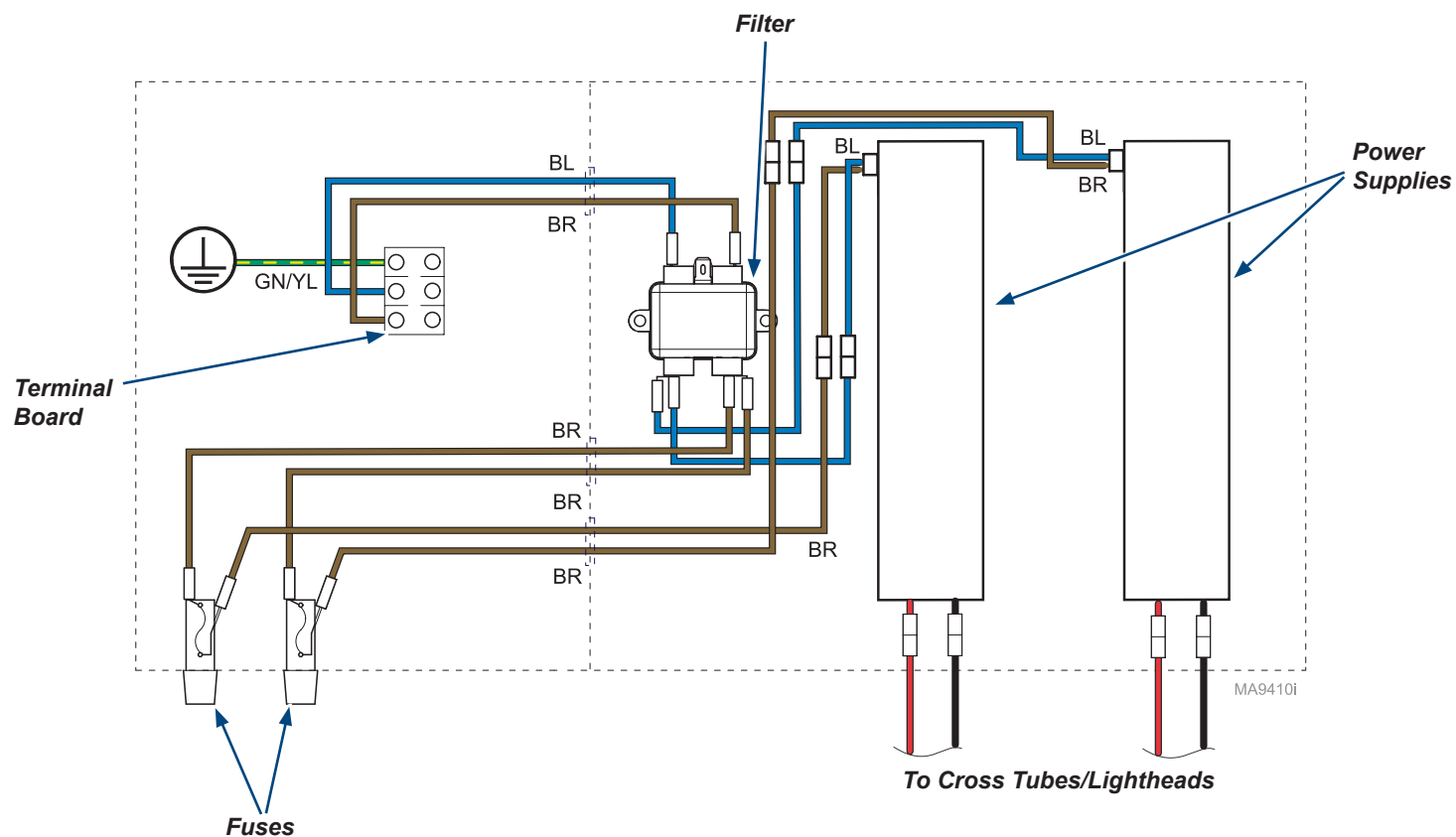
Step 10: Install second power supply in double conversion junction box.

A) Install power supply using screws as shown.



Step 11: Install wiring in double conversion junction box as shown.

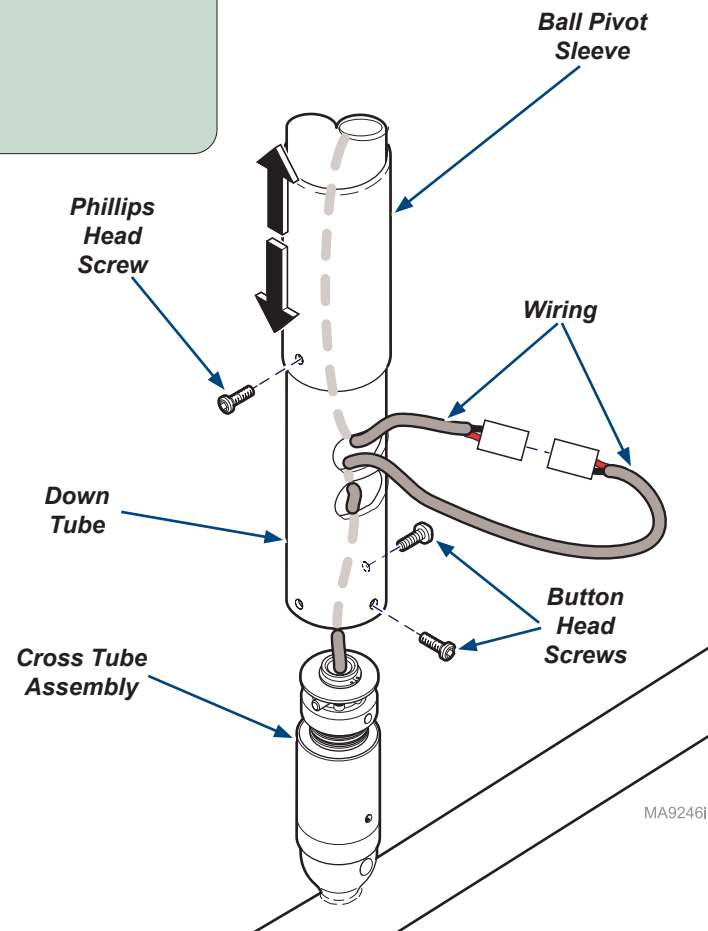
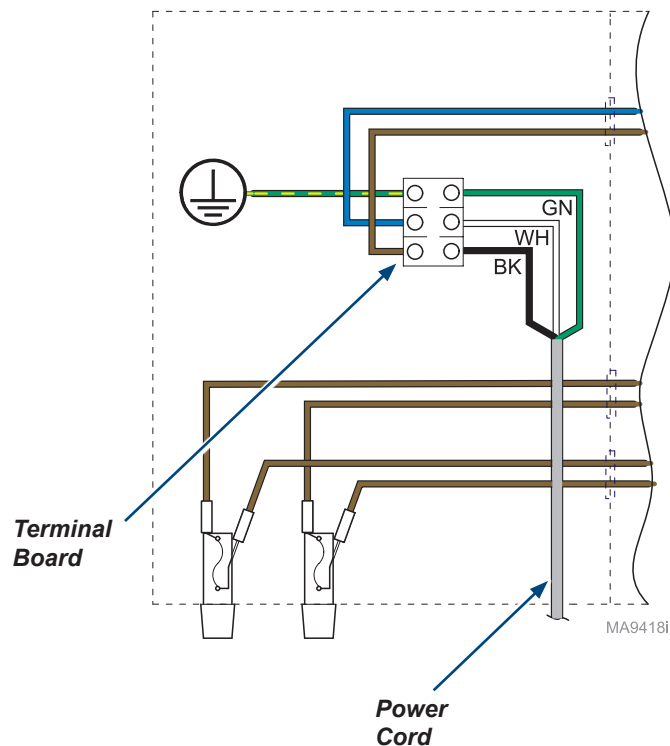
- A) Route wiring through box as needed.
- B) Connect new blue wiring from filter to terminal block.
- C) Connect blue and brown wiring from filter to power supplies.
- D) Route and install brown wiring to fuses.



Note: There are three screw holes in cross tube; two of the holes are larger and have a coarser thread. Use these two holes to secure cross tube assembly with screws. The other hole is for securing ball pivot sleeve.

Step 12: Install Power Cord and Cross Tube Assembly.

- Install power cord to terminal board as shown.
- Slide ball pivot sleeve onto down tube making sure screw hole in sleeve is towards the bottom.
- With ball pivot sleeve positioned as high as possible on down tube, pull wiring through top window of down tube.
- Align three screw holes; then insert pivot shaft of cross tube into down tube. Secure cross tube assembly in position with two button head screws.
- Route wiring through top window of down tube.
- Connect wiring. Push wiring into top window.
- Slide ball pivot sleeve down into position and secure with screw.



Step 13: Finalize installation.

- Complete previous **Step 1a** in reverse order.
- Verify correct operation.

Color Abbreviation Chart

	Item	Color (English)	Farbe (Deutsch)	Couleur (Français - Europe)	Color (español europeo)	Colore (italiano)	Color (others)
	BK	Black	Schwarz	Noir	Negro	Nero	
	BL	Blue	Blau	Bleu	Azul	Blu	
	BR	Brown	Braun	Marron	Marrón	Marrone	
	CL	Clear	Durchsichtig	Incolore	Transparente	Trasparente	
	GN	Green	Grün	Vert	Verde	Verde	
	GY	Grey	Grau	Gris	Gris	Grigio	
	OR	Orange	Orange	Orange	Naranja	Arancione	
	PR	Purple	Purpur	Pourpre	Morado	Porpora	
	CL/PR	Clear Purple	Durchsichtig Purpur	Incolore Pourpre	Transparente Morado	Trasparente Porpora	
	RD	Red	Rot	Rouge	Rojo	Rosso	
	WH	White	Weiß	Blanc	Blanco	Bianco	
	YL	Yellow	Gelb	Jaune	Amarillo	Giallo	
	PK	Pink	Pink	Rose	Rosa	Rosa	
	TN	Tan	Hellbraun	Fauve	Marrón claro	Tanè (marrone scuro)	
	BK/WH	Black/White	Schwarz / Weiß	Noir / Blanc	Negro / Blanco	Bianco / Nero	
	BL/WH	Blue/White	Blau / Weiß	Bleu / Blanc	Azul / Blanco	Blu / Bianco	
	BR/WH	Brown/White	Braun / Weiß	Marron / Blanc	Marrón / Blanco	Marrone / Bianco	
	CL/BK	Clear / Black	Durchsichtig / Schwarz	Incolore / Noir	Transparente / Negro	Trasparente / Nero	
	GN/WH	Green / White	Grün / Weiß	Vert / Blanc	Verde / Blanco	Verde / Bianco	
	GN/YL	Green / Yellow	Grün / Gelb	Vert / Jaune	Verde / Amarillo	Verde / Giallo	
	OR/WH	Orange / White	Orange / Weiß	Orange / Blanc	Naranja / Blanco	Arancione / Bianco	
	PR/WH	Purple / White	Purpur / Weiß	Pourpre / Blanc	Morado / Blanco	Porpora / Bianco	
	RD/WH	Red / White	Rot / Weiß	Rouge / Blanc	Rojo / Blanco	Rosso / Bianco	
	VI/WH	Violet / White	Violett / Weiß	Violet / Blanc	Violeta / Blanco	Viola / Bianco	
	YL/WH	Yellow / White	Gelb / Weiß	Jaune / Blanc	Amarillo / Blanco	Giallo / Bianco	
	YL/GN	Yellow / Green	Gelb / Grün	Jaune / Vert	Amarillo / Verde	Giallo / Verde	
	YL/BK	Yellow / Black	Gelb / Schwarz	Jaune / Noir	Amarillo / Negro	Giallo / Nero	