



Knight Handpiece Illumination System

[153693, 153695 (120VAC)
153694, 153696 (240 VAC)]

Applies to Models:

LR MTD
Console MTD
Duo Cart
Cabinet, Drs Cart
Assistant Cart

Language of origin: English

Note

For installation in Knight Units mounted to Console, LR, Duo Cart, Hygienist Cart or Doctor's Cart.

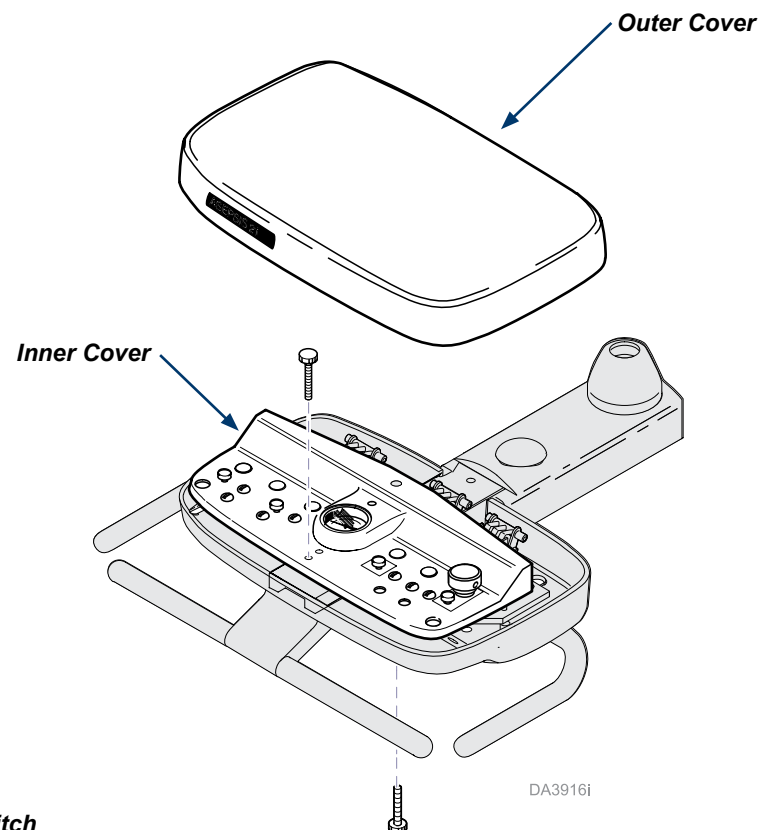
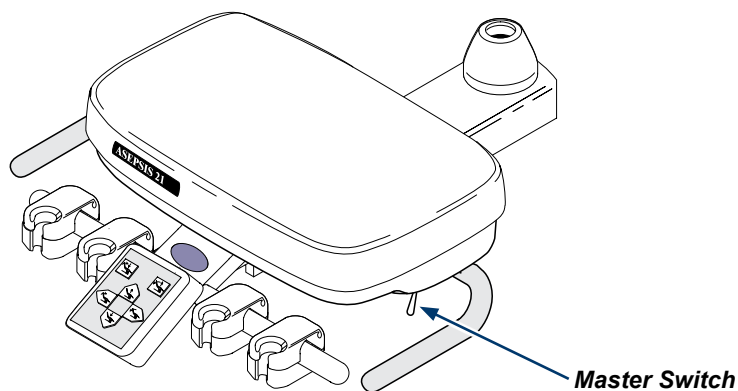
Note

If there is an instrument installed where the new handpiece illumination system is being installed, remove from delivery by disconnecting all tubing connections.

Step 1: Access tubing connections.

- A) Turn off all electrical power at the main power source.
- B) Turn off air supply at master switch.
- C) Lift off outer cover.
- D) Remove thumbscrews to lift up top of inner cover to access kink valve connections.

Note: Newer models will have screws instead of thumbscrews.



G) Connect check valve (on end of clear tube with "T") to pressure gauge clear harness.

Position 3 - Green

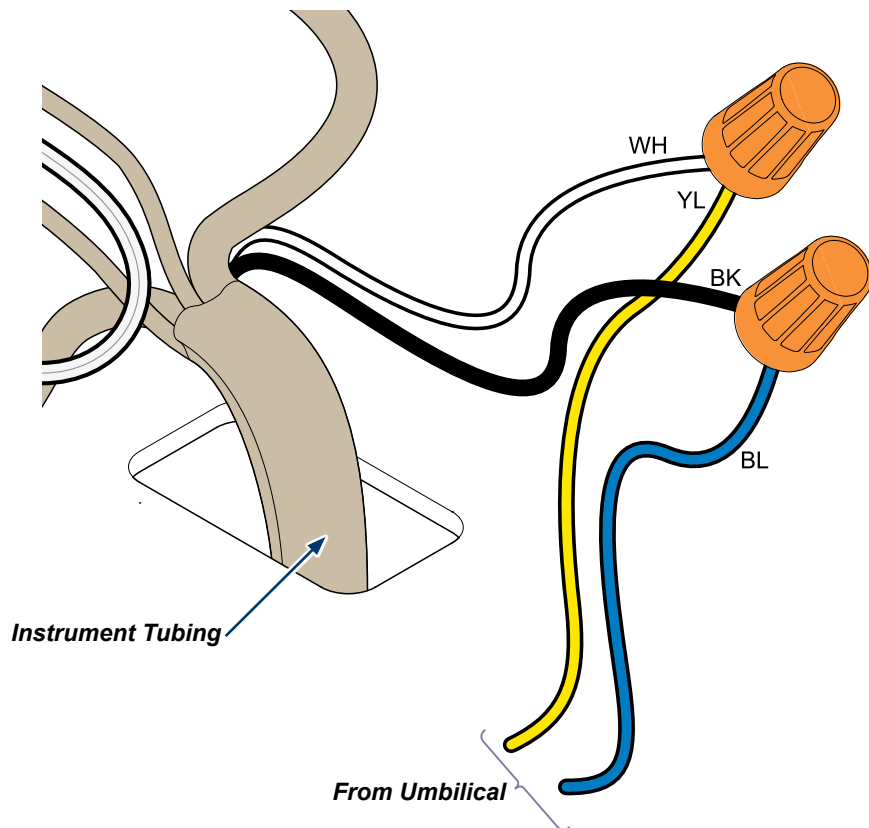


Step 3: Connect instrument wiring.

- A) Connect end of plain blue wire from umbilical to black wire on instrument tubing with wire nut.
- C) Connect white wire from instrument tubing to yellow wire from umbilical with wire nut.
- D) Bundle, tie and tuck loose wires away from kink valve in umbilical opening.
- E) Install covers on delivery unit.

Note: For two or more illuminated handpiece connections on the same unit, going left to right while facing front of delivery, use the following wire colors from the umbilical for the black wire instrument connections. All white wires from instrument are common, put all together with yellow wire from umbilical with one wire nut. For 3rd handpiece, if black wire is used for other accessories, use the orange wire in it's place.

2nd handpiece with Blue/White Striped Wire
3rd handpiece with Black Wire



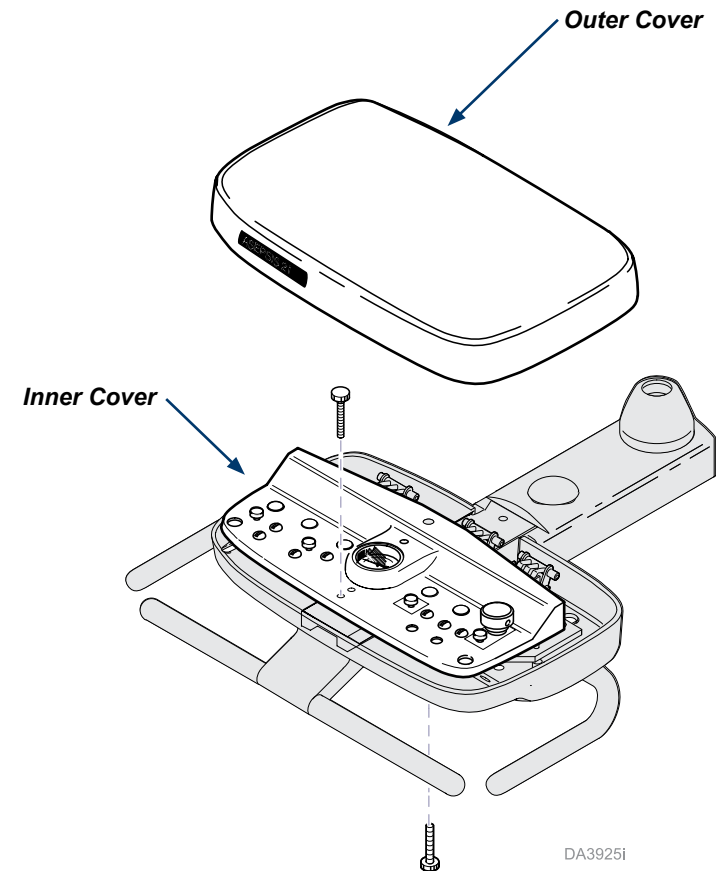
Step 4: Install power pack.

LR MTD: Go to page 4

Console MTD: Go to page 5

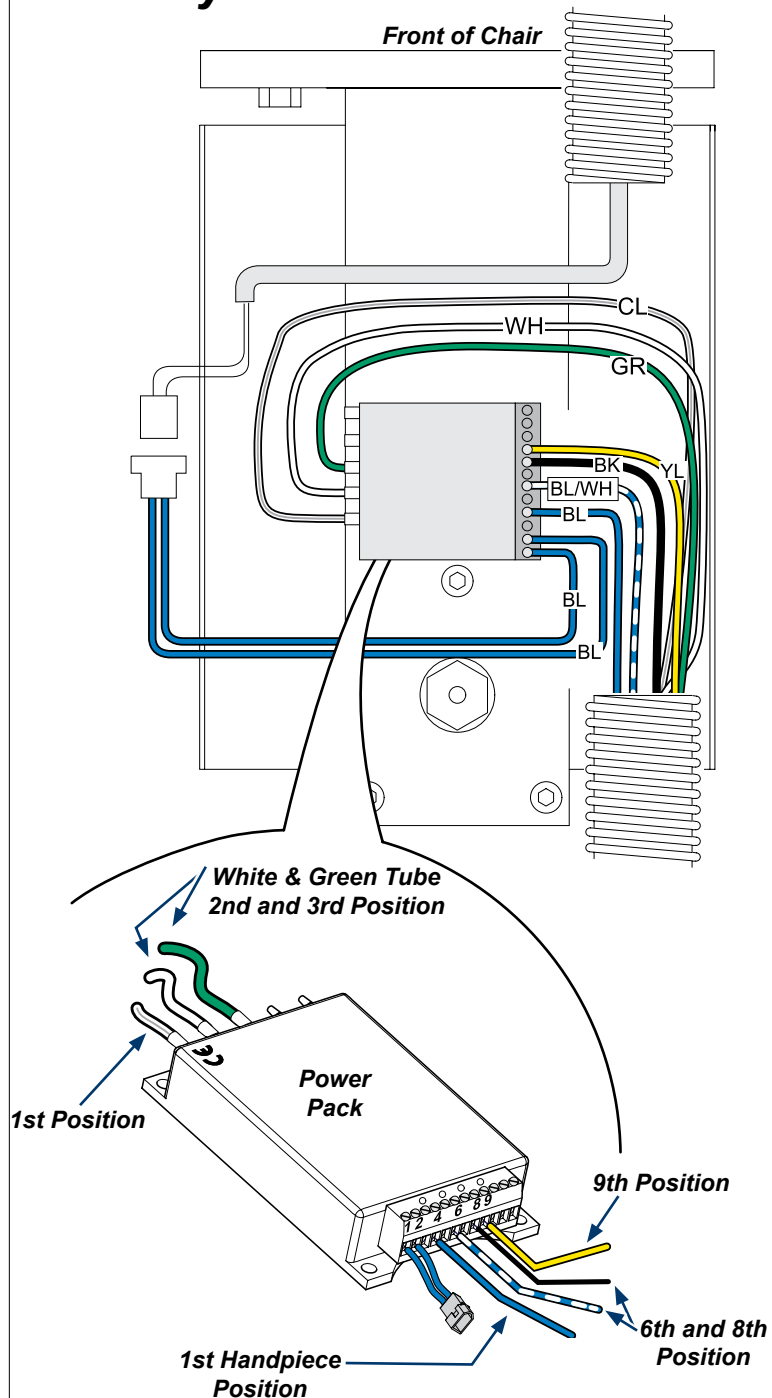
Duo Cart: Go to page 6

Cabinet, Drs Cart, Assistants Cart: Go to page 7



DA3925i

Delivery for LR



Note

For two or more illuminated handpiece connections on the same unit, use the following wire and tubing colors from the umbilical for connections to the power pack.

Tubing

Position 1 - Clear Tube

Position 2 - White Tube

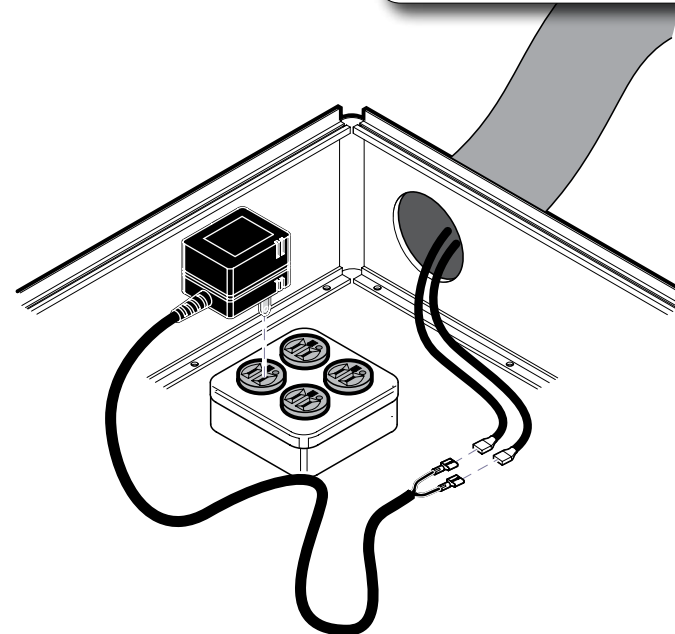
Position 3 - Green Tube

Wiring - Note: Must be one empty screw position between each handpiece wire connection on power pack.

4th Screw Position - 1st Handpiece with Plain Blue

6th Screw Position - 2nd Handpiece with Blue/White Striped Wire

8th Screw Position - 3rd handpiece with Black Wire



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Step 4: Install power pack.

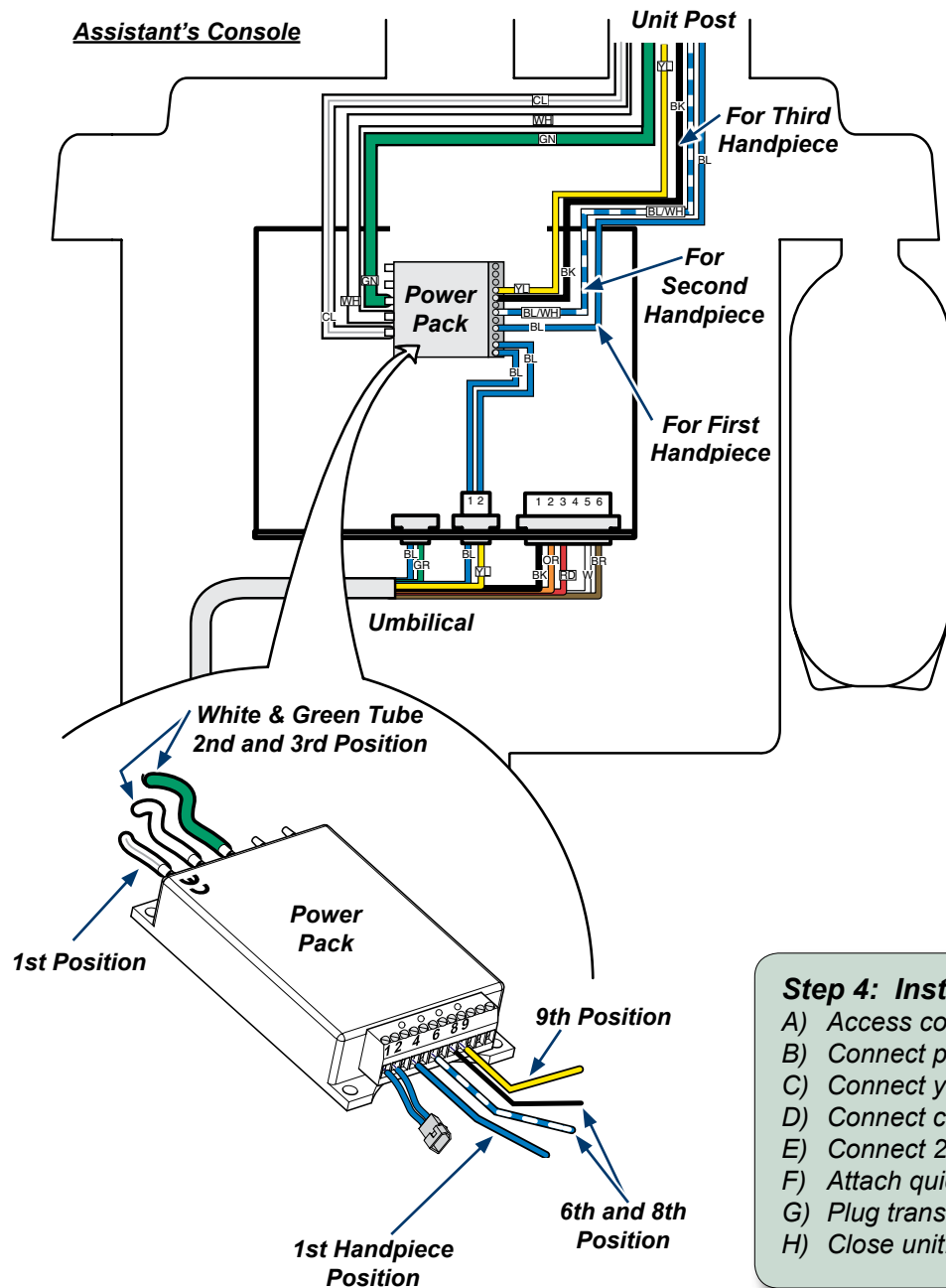
- Access front of chair.
- Connect plain blue wire from umbilical to the 4th screw position on the power pack.
- Connect yellow wire from umbilical to the 9th screw position on the power pack.
- Connect clear tube from umbilical to first position on power pack (by CE mark).
- Connect 2 blue pin plug wires to 1st and 2nd screw position on the power pack.
- Close console and access J-box connections.
- Attach quick disconnect terminal from power supply to umbilical.
- Plug transformer into receptacle in J-Box.
- Close J-box. Connect power and air supply. Test new instrument. Installation is complete.

Delivery for Console

Note

Colors may vary due to optional configurations. For third handpiece, if black wire is used for other accessories, use the orange wire in it's place.

Assistant's Console



Note

For two or more illuminated handpiece connections on the same unit, use the following wire and tubing colors from the umbilical for connections to the power pack.

Tubing

Position 1 - Clear Tube

Position 2 - White Tube

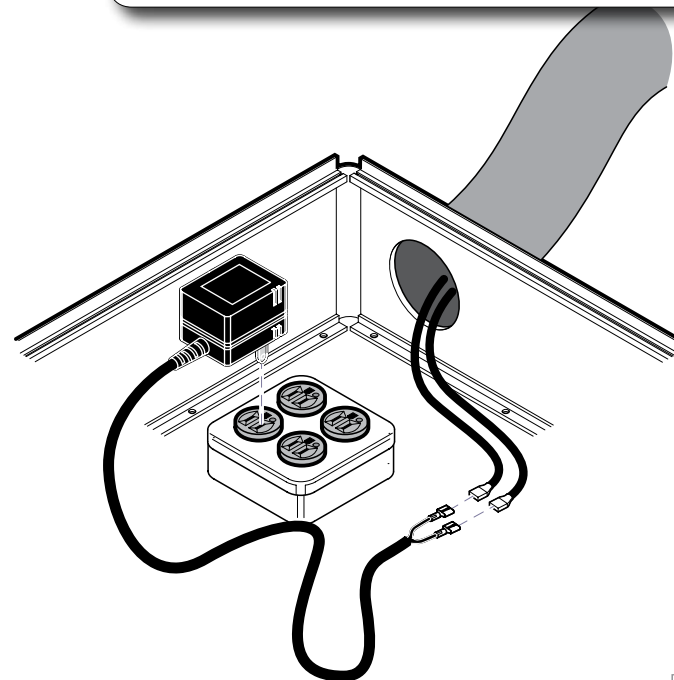
Position 3 - Green Tube

Wiring - Note: Must be one empty screw position between each handpiece wire connection on power pack.

4th Screw Position - 1st Handpiece with Plain Blue

6th Screw Position - 2nd Handpiece with Blue/White Striped Wire

8th Screw Position - 3rd handpiece with Black Wire



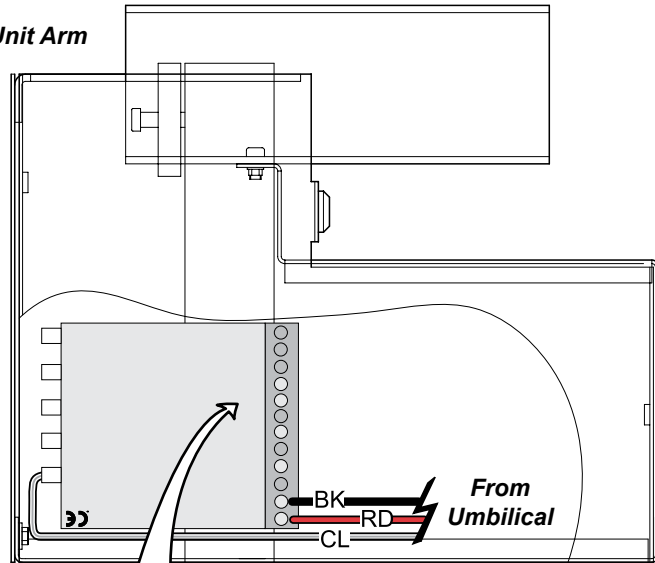
DA3975i

Step 4: Install power pack.

- Access console.
- Connect plain blue wire from umbilical to the 4th screw position on the power pack.
- Connect yellow wire from umbilical to the 9th screw position on the power pack.
- Connect clear tube from umbilical to first position on power pack (by CE mark).
- Connect 2 blue pin plug wires to 1st and 2nd screw position on the power pack. Close console.
- Attach quick disconnect terminal from power supply to umbilical.
- Plug transformer into receptacle in J-Box.
- Close unit. Connect power and air supply. Test new instrument. Installation is complete.

Delivery for Duo Cart

Unit Arm



Note

For two or more illuminated handpiece connections on the same unit, use the following wire and tubing colors from the umbilical for connections to the power pack.

Tubing

Position 1 - Clear Tube

Position 2 - White Tube

Position 3 - Green Tube

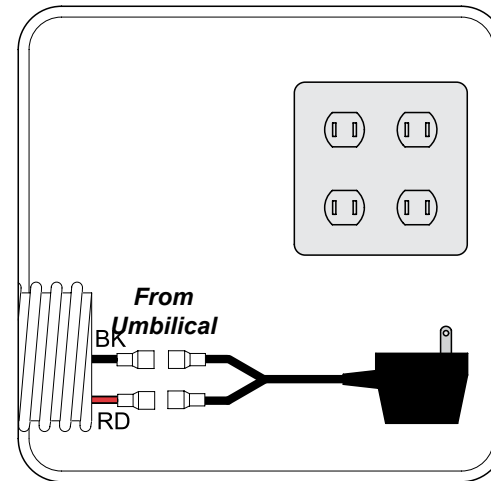
Wiring - Note: Must be one empty screw position between each handpiece wire connection on power pack.

4th Screw Position - 1st Handpiece with Plain Blue

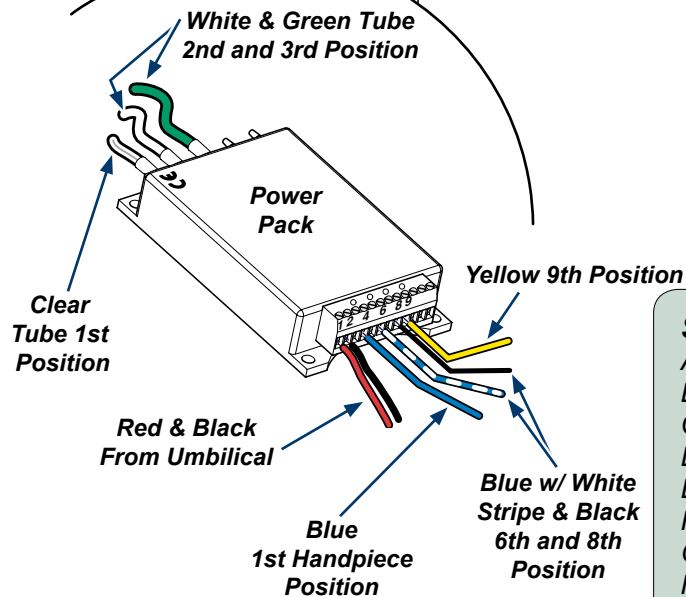
6th Screw Position - 2nd Handpiece with Blue/White Striped Wire

8th Screw Position - 3rd handpiece with Black Wire

J-Box



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Step 4: Install power pack.

- Access unit arm.
- Connect plain blue wire from umbilical to the 4th screw position on the power pack.
- Connect yellow wire from umbilical to the 9th screw position on the power pack.
- Connect clear tube from umbilical to first position on power pack (by CE mark).
- Connect the red and black wires from umbilical to the first two screw positions on the power pack.
- Apply velcro hook and loop to power pack and space inside unit. Install power pack inside unit. Close unit.
- Access J-box and connect transformer wires to red and black wires from umbilical.
- Plug transformer into receptacle in J-Box.
- Close unit. Connect power and air supply. Test new instrument. Installation is complete.

Delivery for Cabinet, Doctor's Cart and Hygienist Cart

Step 4: Install power pack.

- Access the J-box.
- Connect plain blue wire from umbilical to the 4th screw position on the power pack.
- Connect yellow wire from umbilical to the 9th screw position on the power pack.
- Connect clear tube from umbilical to first position on power pack (by CE mark).
- Connect transformer wires in the 1st and 2nd screw position on the power pack.
- Plug transformer into receptacle.
- Apply velcro hook and loop to power pack and space inside J-box. Attach power pack to unit.
- Close unit. Connect power and air supply. Test new instrument. Installation is complete.

Note

For two or more illuminated handpiece connections on the same unit, use the following wire and tubing colors from the umbilical for connections to the power pack.

Tubing

Position 1 - Clear Tube

Position 2 - White Tube

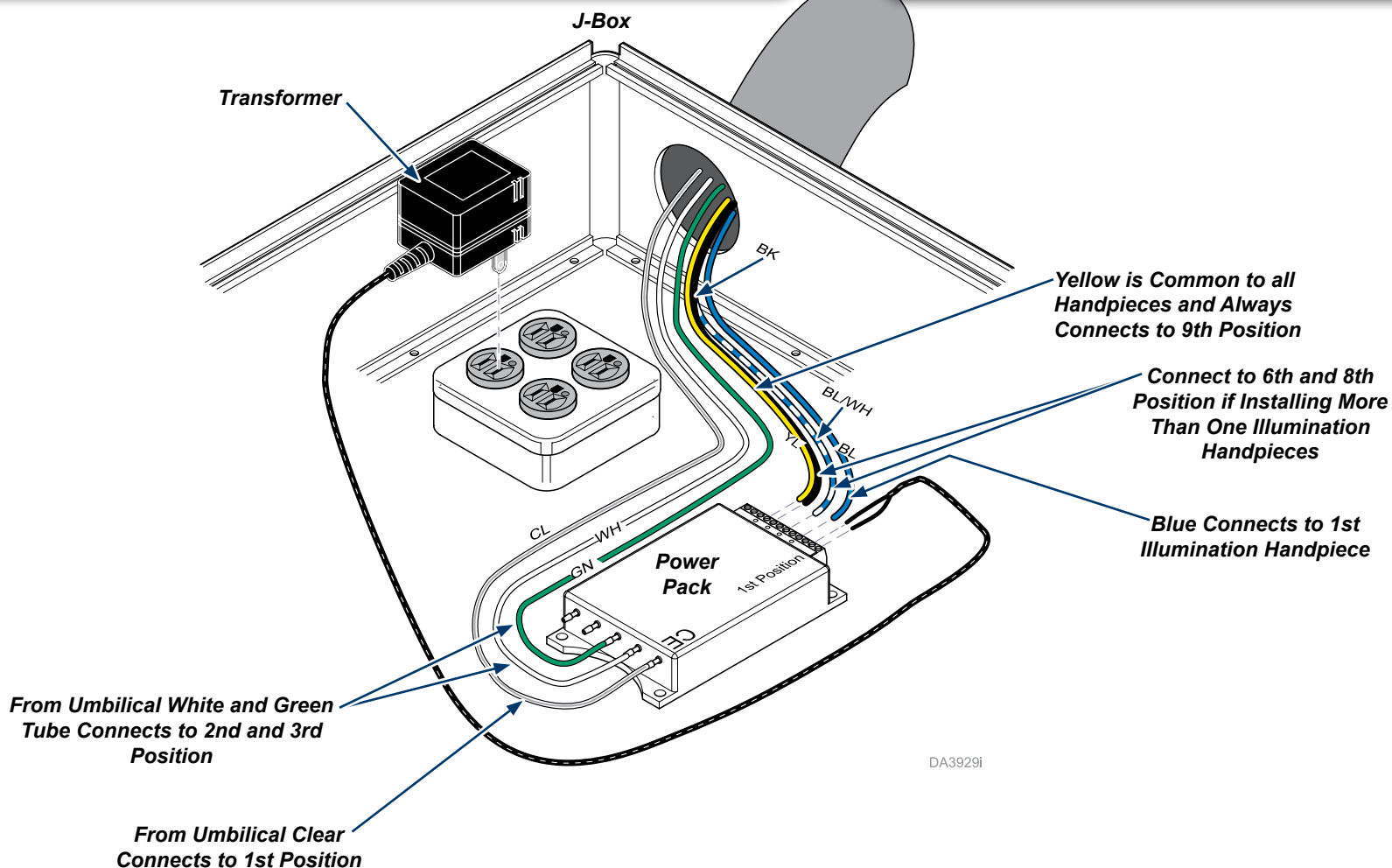
Position 3 - Green Tube

Wiring - Note: Must be one empty screw position between each handpiece wire connection on power pack.

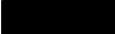





















4th Screw Position - 1st Handpiece with Plain Blue

6th Screw Position - 2nd Handpiece with Blue/White Striped Wire

8th Screw Position - 3rd handpiece with Black Wire



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	