

MX2+ Dual Digital Electric Handpiece

Procenter Delivery Units (12:00 mounted)

Motor, No Handpiece Attachment

153900-008

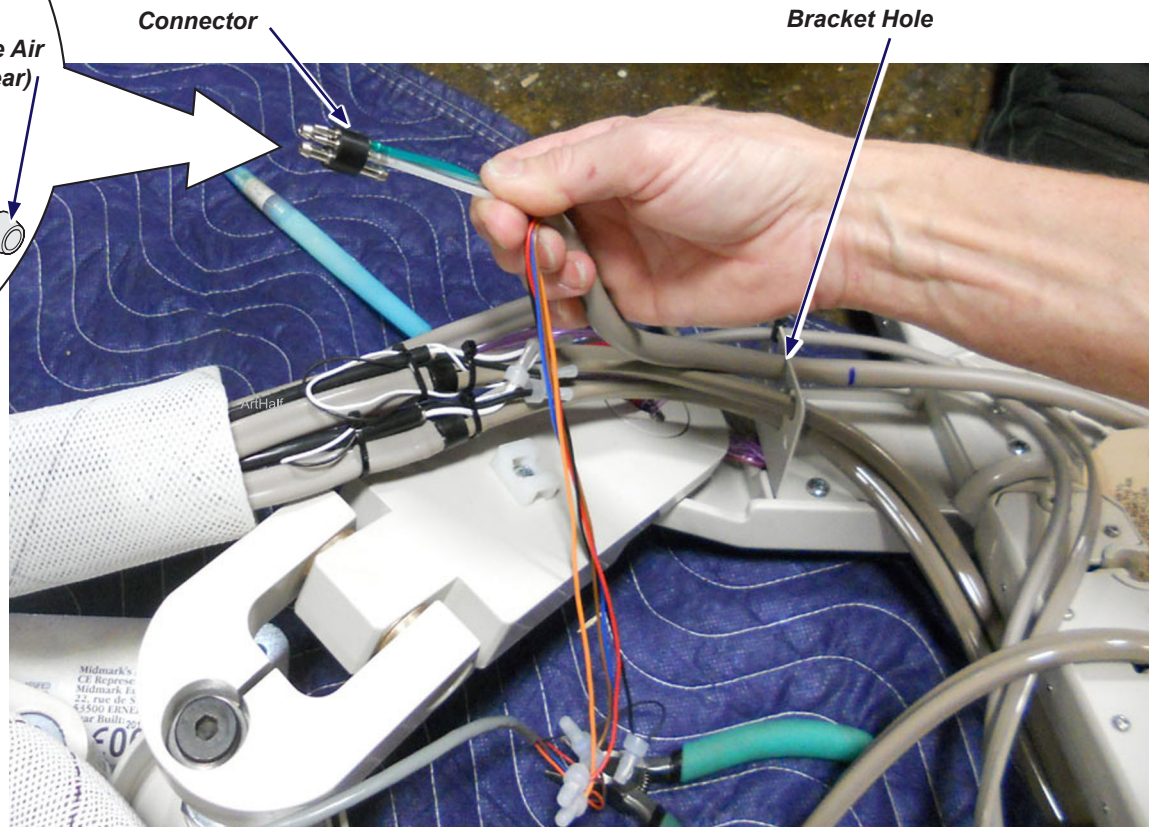
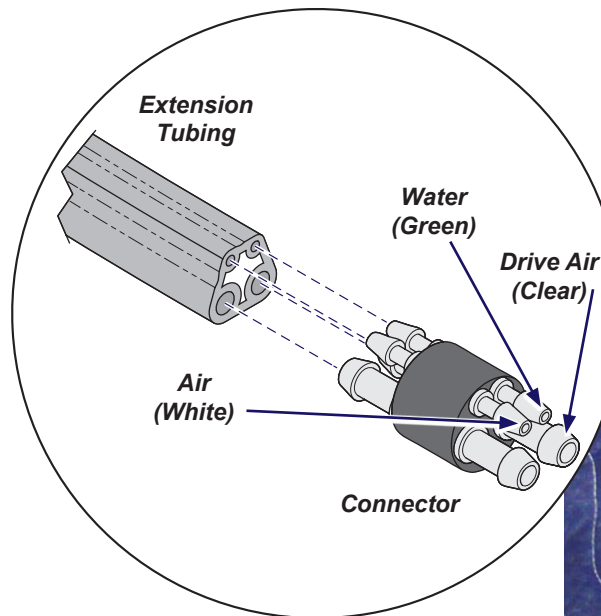
Note

Confirm the desired position to install the MX2+ digital electric handpiece and pre-assemble all possible components before beginning installation.



WARNING

Disconnect power, shut off air and water before performing this procedure.



Step 1: Route tubing.

- Place handpiece tubing and wiring through bracket hole.
- Repeat process for second handpiece tubing and wiring.

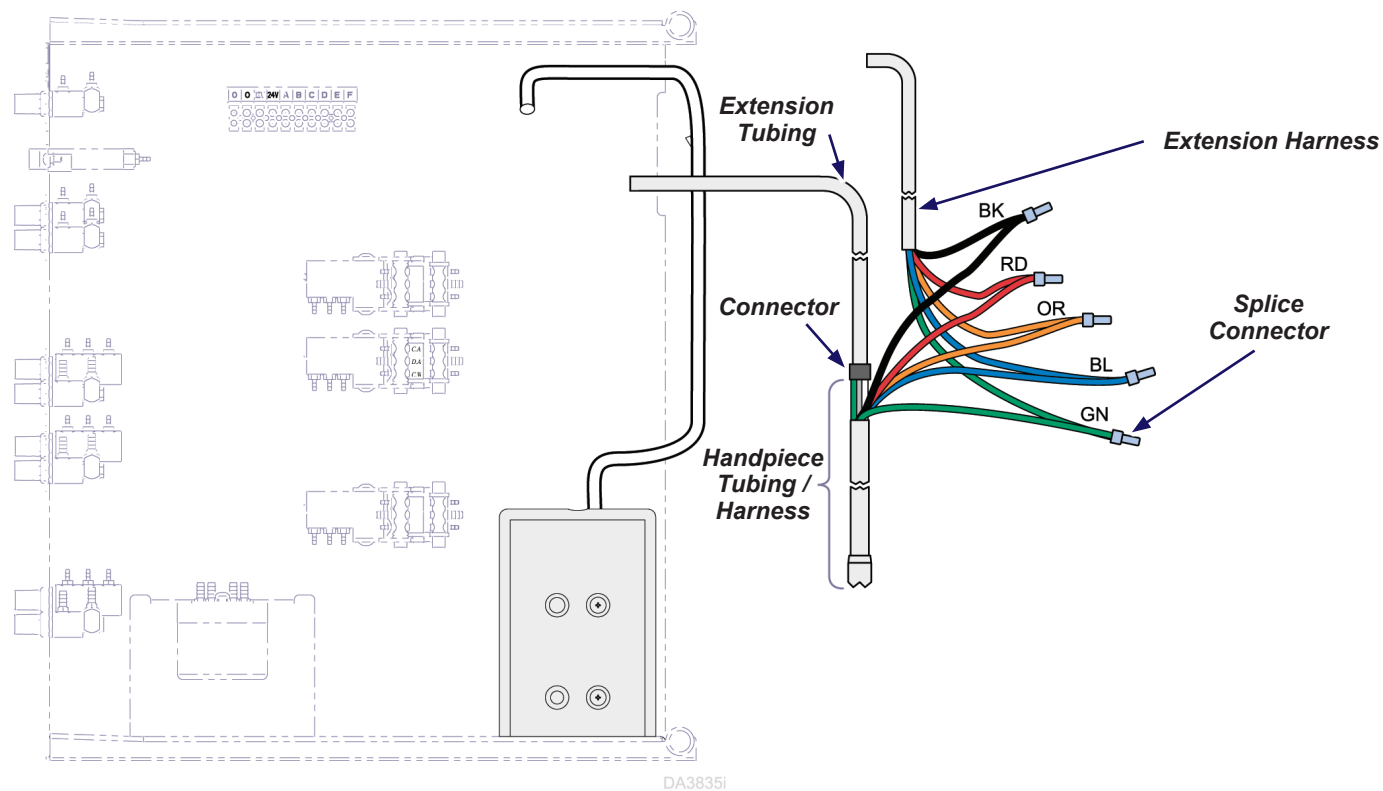
Step 2: Install connector to tubing.

- Install tubing to connector (three connections).
- Install extension tubing to other side of connector.
- Repeat process for second connector and extension tubing.

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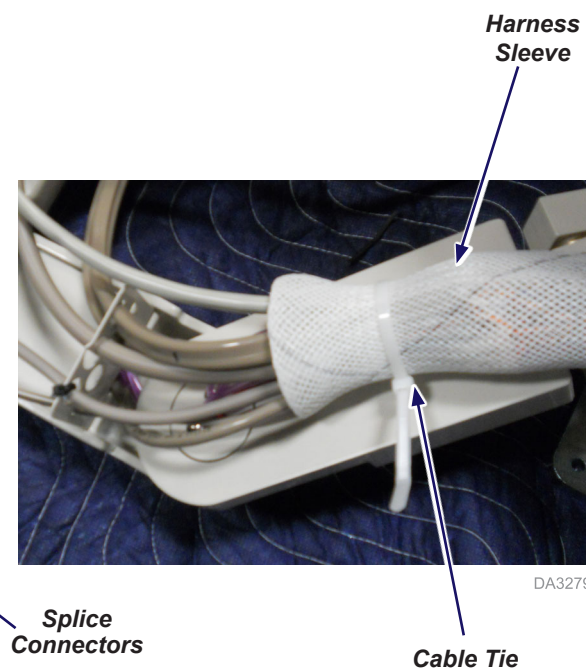
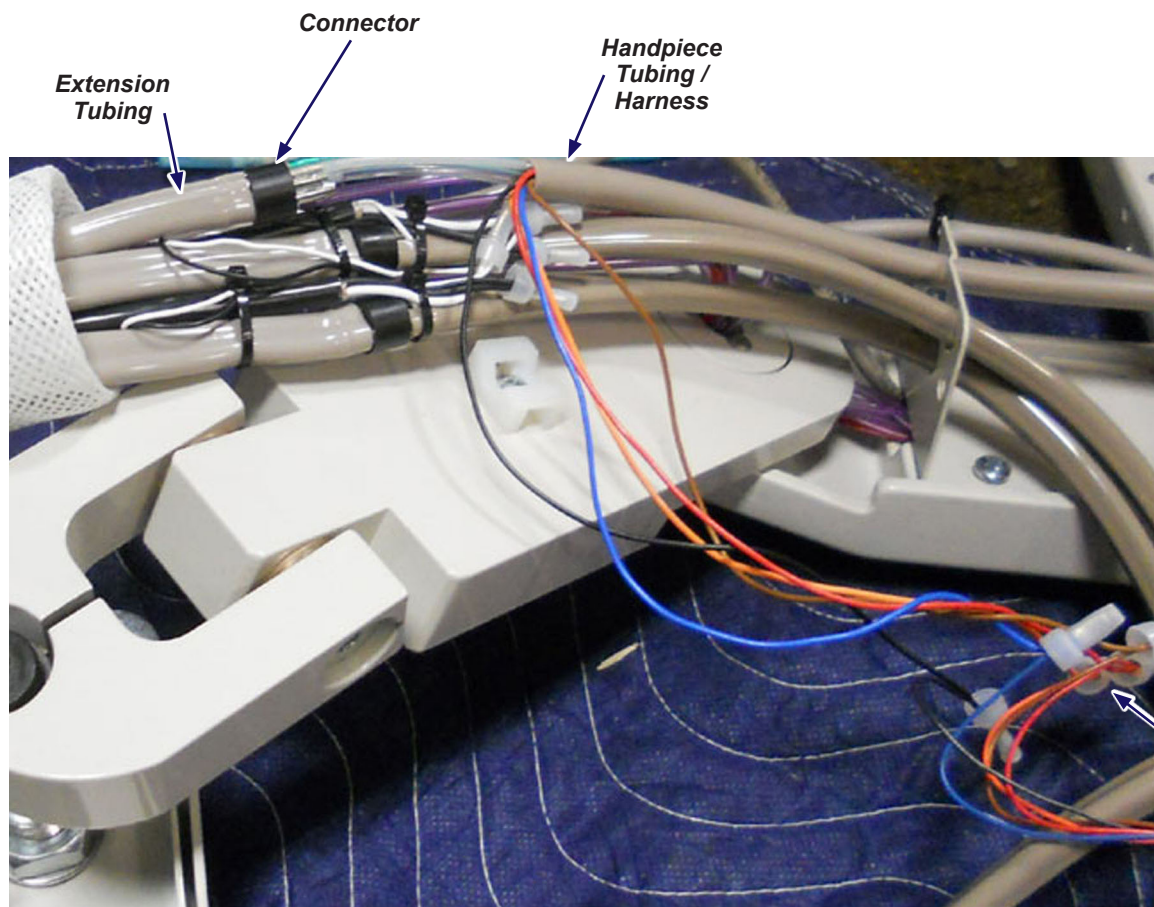
Step 3: Attach extension harness (015-2141-00) to handpiece harness.

- A) Match wire colors and attach them together by inserting the stripped wire ends into the splice connector and crimping it.
- B) Tug on wires to make sure connection is tight.
- C) Repeat process for second extension harness and handpiece harness.



Step 4: Route wiring.

- A) Route extension harness, tubing and module harness through harness sleeve to PTC unit.
- B) Secure loose wiring with cable ties.
- C) Repeat process for second extension harness and tubing.



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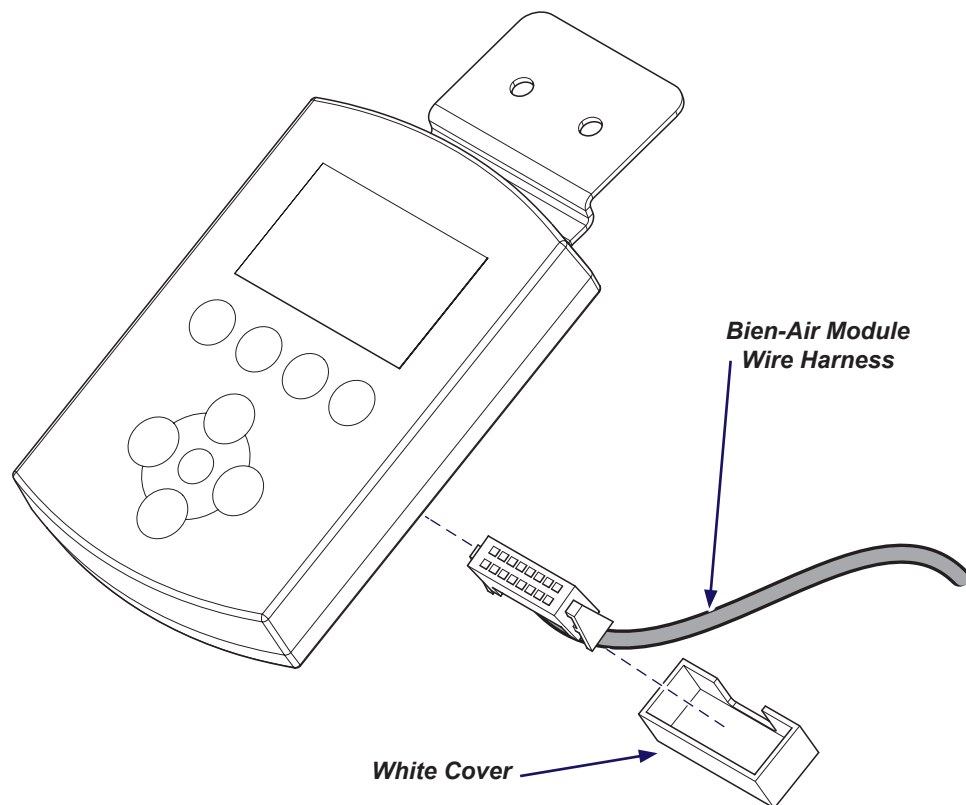
DA3279i

**Splice
Connectors**
Extension Harness

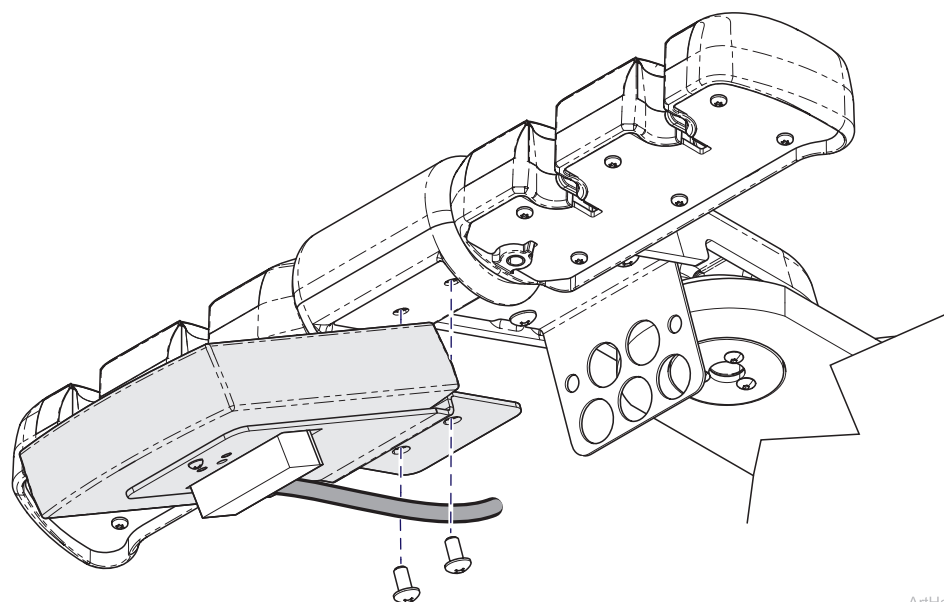
Cable Tie

Step 5: Attach harness and mount Bien-Air module.

- A) Route grey Bien-Air module wire harness through unit.
- B) Make necessary wire connection.
- C) Secure white cover at wire connection.
- D) Attach Bien-Air module to unit using existing two screws.



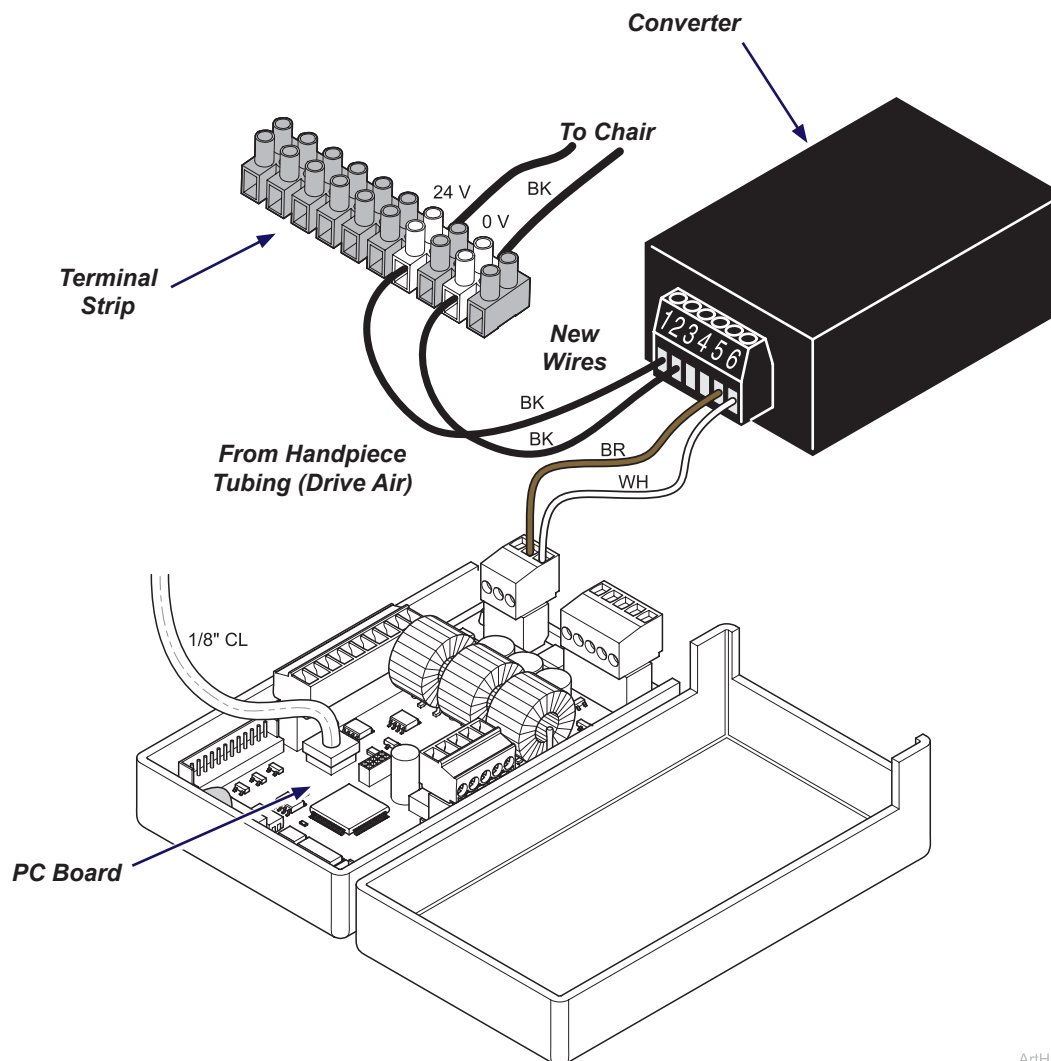
ArtHalf



ArtHalf

Step 6: Connect converter wiring and clear tubing.

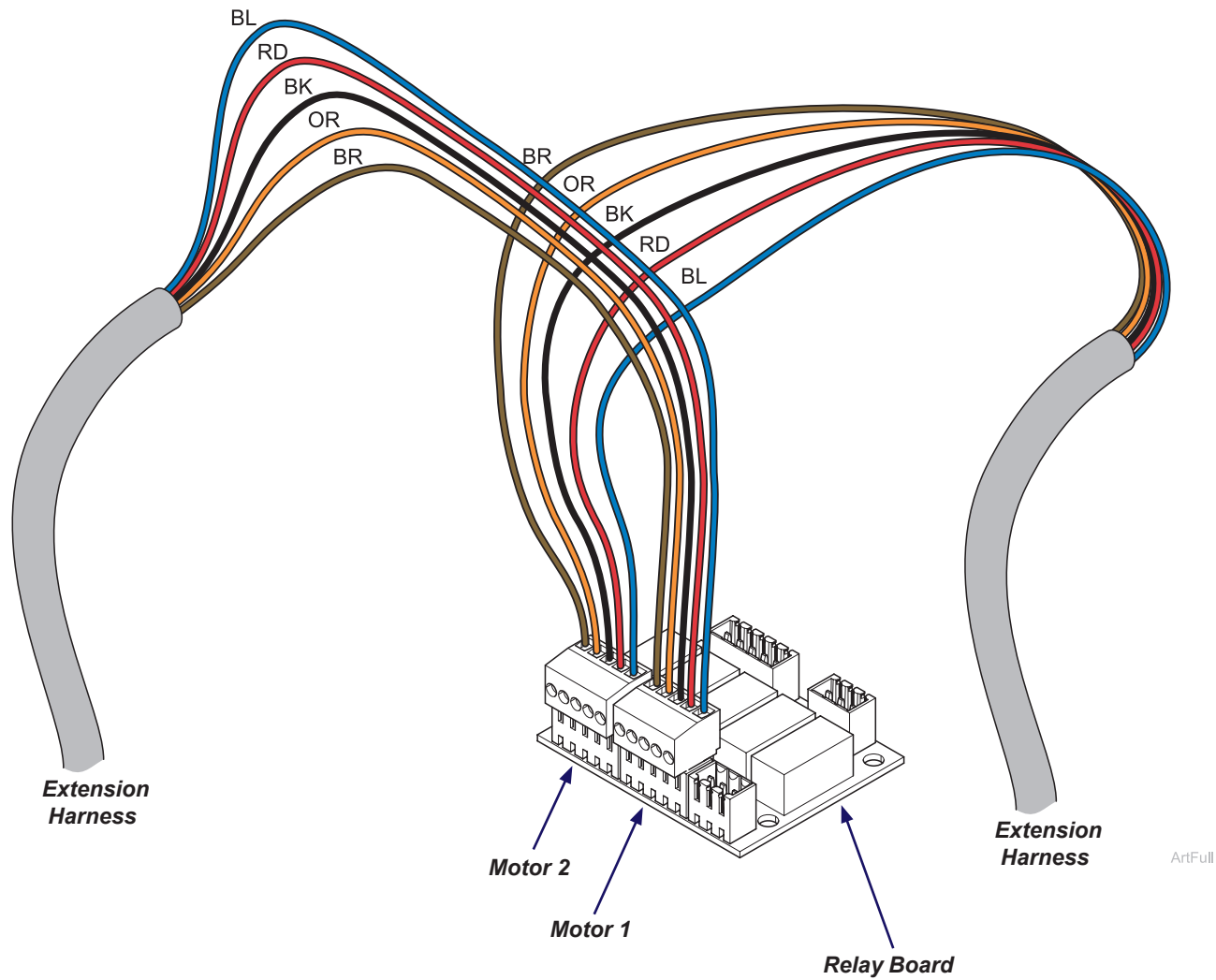
- A) Connect brown and white wires to converter using a small screw driver. Add extensions to converter wires as needed.
- B) Using a small screw driver, install black wires from converter to terminal strip with any existing wires that are already connected.
- C) Attach clear 1/8" tubing from handpiece tubing (drive air) to PC board.



ArtHalf

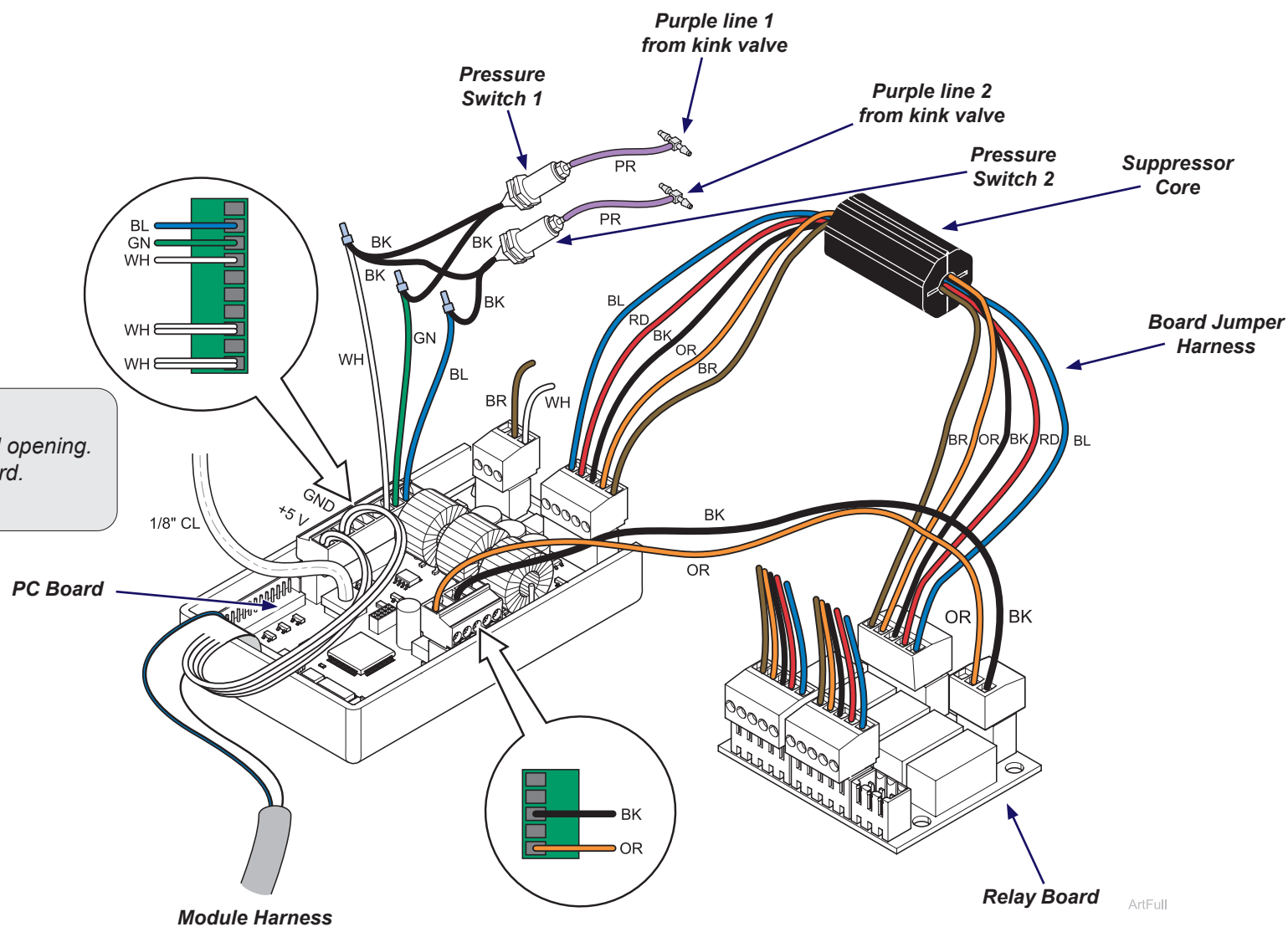
Step 7: Connect extension harnesses to relay board.

- A) Connect extension harness for motor 1 to relay board as shown.
- B) Connect extension harness for motor 2 to relay board as shown.



Step 8: Connect main harness (PCB/relay board).

- Connect board jumper harness to PC board and relay board as shown.
- Attach connector with orange and black wires from PC board to relay board as shown.
- Connect module harness to PC board as shown.
- Attach module harnesses wire labeled +5 V and GND to PC board connector as shown.
- Attach black wires from pressure switches to wires from PC board connector as shown. Use wire nut to secure.



Step 9: Secure PC Board.

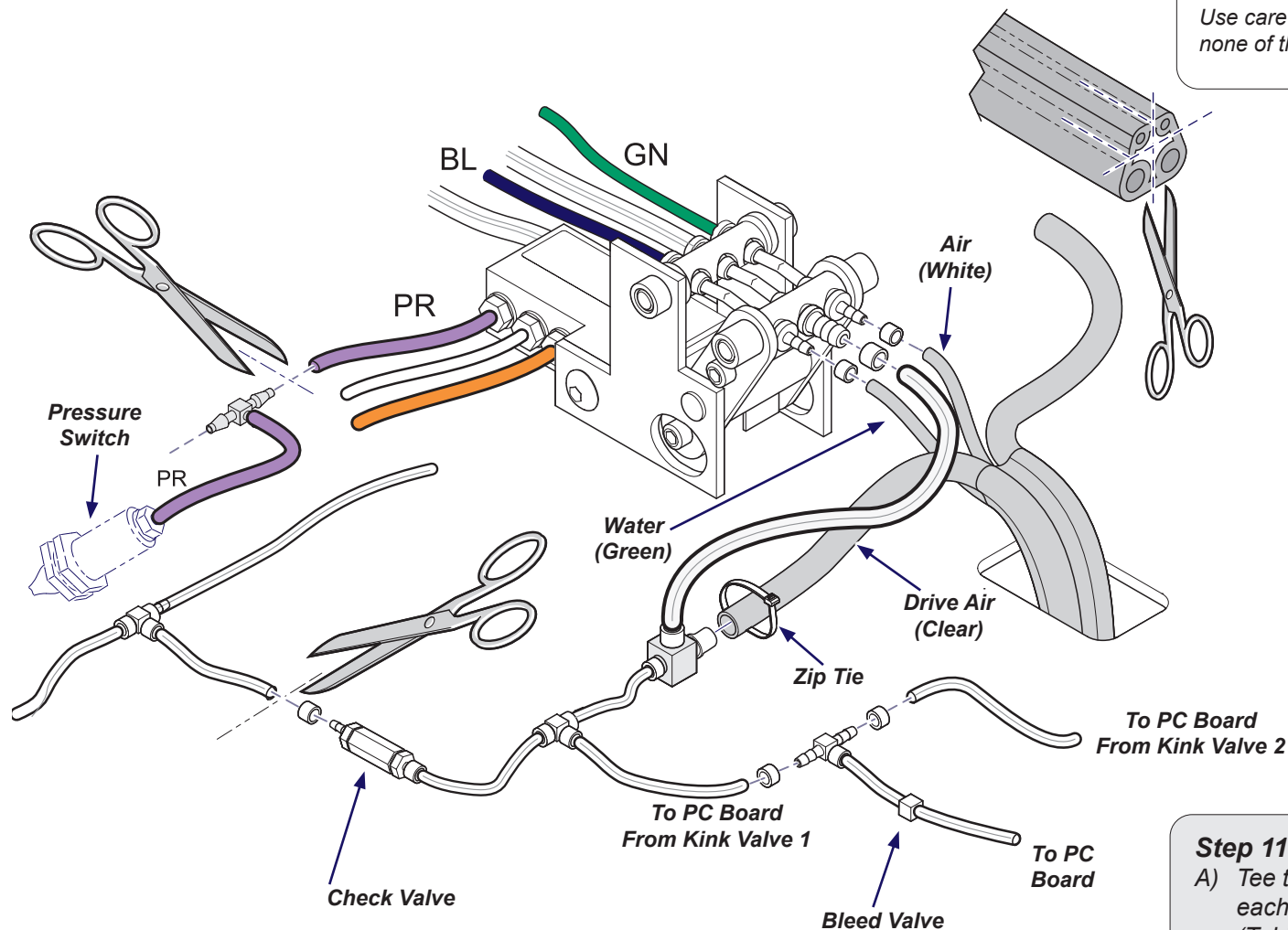
- Route wires through PC Board opening.
- Install cover to secure PC Board.
- Secure wires with cable ties.

Step 10: Connect tubing to kink valve.

- A) Cut end of tubing as shown and connect to kink valve and tee fitting using uni clamps where shown. (Tubing colors refer to where the extension tubing is attached to the handpiece tubing shown in previous steps.)
- B) Cut tubing at existing check valve where shown and remove existing tubing and connect new check valve and tubing using uni clamp.
- C) Cut purple tubing and attach to tee from pressure switch.
- D) Repeat process for second tubing.

Note

Use care cutting the end of the tubing so that none of the integrated tubes are damaged.

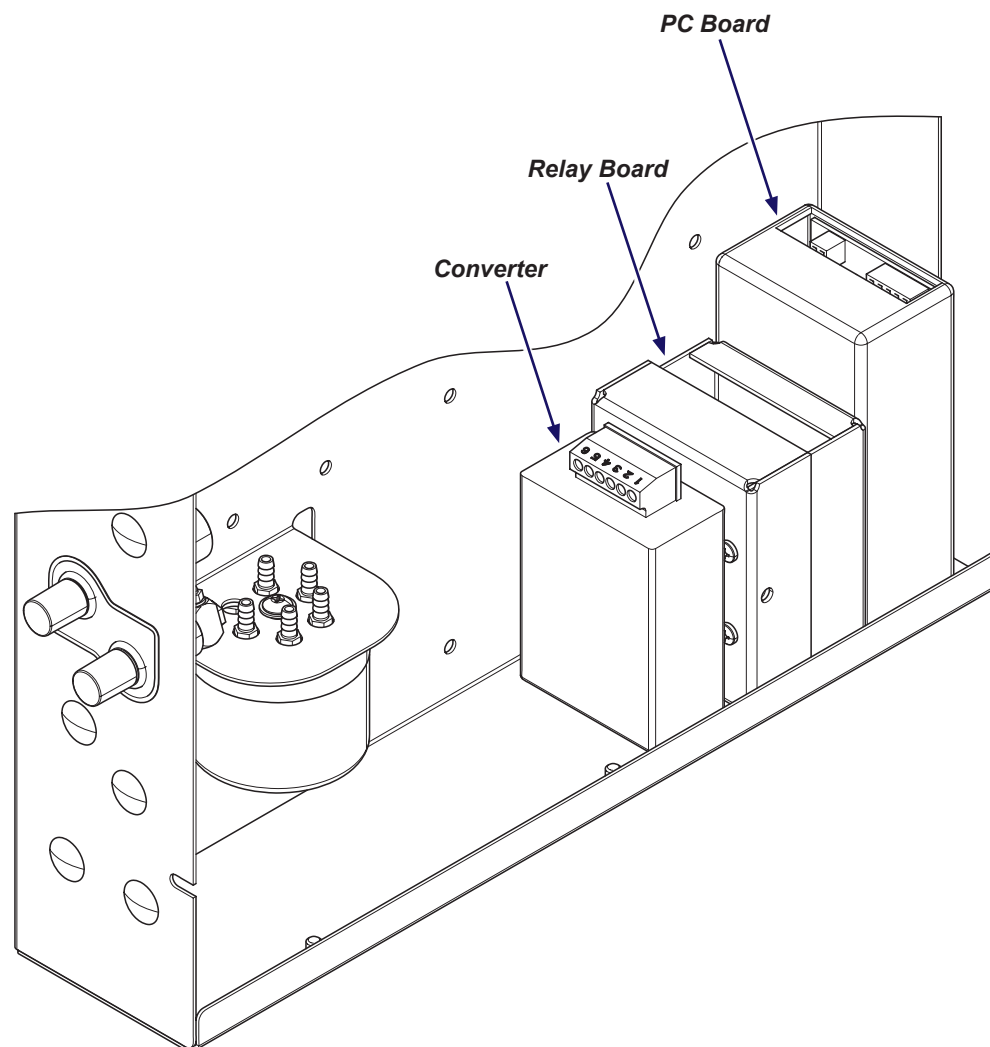


Step 11: Connect tubings to PC board.

- A) Tee together tubing going to PC board from each kink valve with provided tubing. (Tubing with bleed valve should connect to the PC board.)

Step 12: Install converter, PC Board, and relay box.

- A) Install hook and loop strips to bottom of each component and to the delivery unit housing.
- B) Install PC board box, relay board box and converter as shown.



ArtFull

Step 13: Complete wire routing.

- A) Secure loose wiring in delivery unit housing by looping wires and using cable ties.
- B) Install all previously removed cable ties on wire harness/sleeve.



*Use loop through
existing cable tie to
secure loose wiring*

DA3284i

Step 14: Connect power and verify operation.

- A) Connect chair to power supply.
- B) Reference Bien-Air user guide to verify proper dual handpiece set up.
- C) Test handpiece 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	