MIDMARK®

Scaler Accessory Installation Guide
(Elevance® Standard and Continental-Style Delivery Systems)

Note
Use only one scaler of any style may be integrated. Satelec scaler with LED light accessory includes box on module harness.

Equipment Alert
The Satelec scaler accessory is manufactured by ACTEON North America. Refer to ACTEON's literature for detailed information on Operation, Maintenance, Service, Troubleshooting, Warranty and to order replacement parts. For additional information go to: www.acteonsupport.com.

WARNING
Always disconnect power from electrical mains before removing any covers. Failure to do so may result in personal injury.
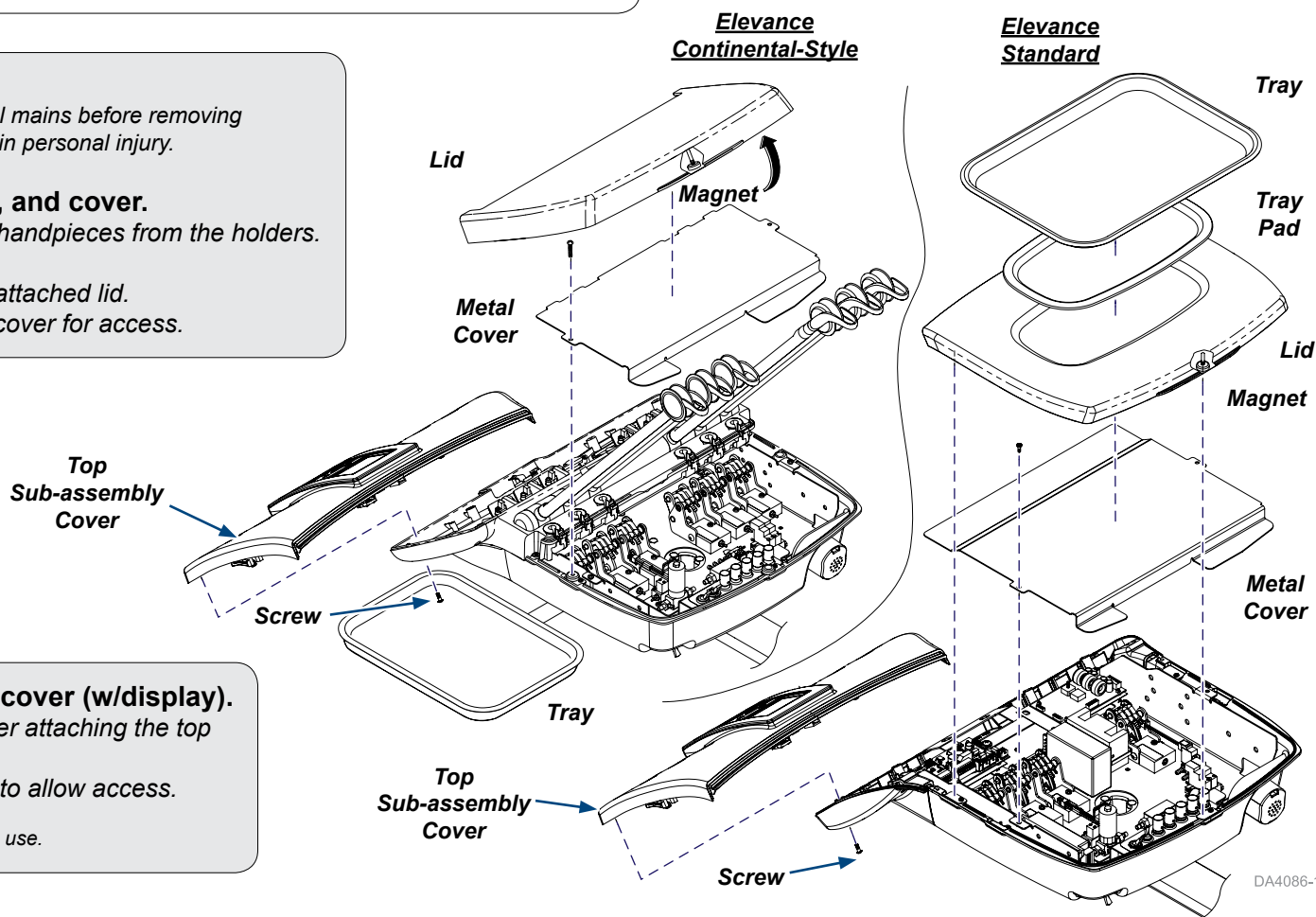
Step 1: Remove delivery unit lid, pads, and cover.
A) *Turn the Master Switch OFF and remove handpieces from the holders.*
B) *Remove/move tray and/or tray pad.*
C) *Lift up from back to remove magnetically attached lid.*
D) *Remove two screws and lift off the metal cover for access.*

Step 2: Loosen top sub-assembly cover (w/display).
A) *Remove screws from the bottom cover attaching the top sub-assembly.*
B) *Place top sub-assembly in safe area to allow access.*

Note: Keep all screws from bottom cover for future use.

Elevance Continental-Style — Lid, Magnet, Metal Cover, Top Sub-assembly Cover, Screw, Tray

Elevance Standard — Tray, Tray Pad, Lid, Magnet, Metal Cover, Top Sub-assembly Cover, Screw

DA4086-1i

TP201 Rev. A

Original Kink Valve

Note
Ensure arrow on check valve is pointing away from the kink valve.

Four Port Tubing Shown as Example

Step 3A: Remove existing tubing from kink valve (if needed).
A) *Remove green tubing from back and plug.*
B) *Remove tubing on ends of kink valve on front.*

To Exhaust Line

3/16 CL

Front   Back

1/8 CL

Check Valve

1/8 BL

Kink Valve

3/16 CL

DA4090i

1/8 GN

Step 4A: Remove existing handpiece (if needed).
A) *Remove tubing from existing handpiece.*
B) *Remove handpiece.*

Step 5A: Install kink valve (if needed).
A) *Install new kink valve.*

Drive Air

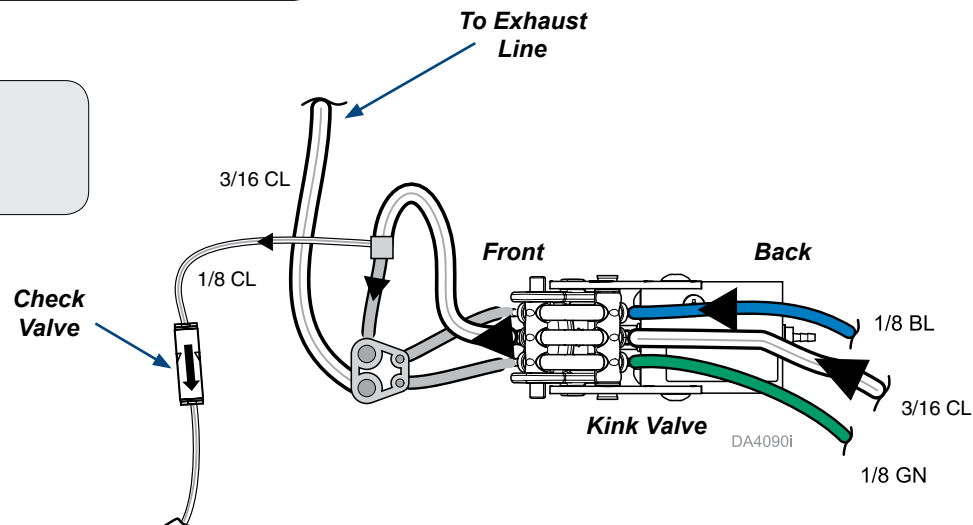Reducer Fitting

1/8 BL

1/8 CL

Kink Valve

3/16 CL

DA4091i

⚠ Equipment Alert
Trim all excess tubing among valves. Failure to do so may cause tubing to kink, which prevents proper operation.

Step 6A: Install tubing to kink valve.
A) *Disconnect exhaust line from tubing fitting and plug.*
B) *Add reducer fitting to drive air line.*

To Pressure Sensor

Page Applies To Model Numbers:	Serial Numbers:
All	*V2200 - VXXXXXXX*

Current Kink Valve

Four Port Tubing Shown as Example

Step 3B: Remove existing tubing from kink valve (if needed).
A) Remove green tubing from back and plug.
B) Remove tubing on ends of kink valve on front.

To Exhaust Line

1/8 OR

1/8 PR

3/16 CL

Front

1/8 WH

Back

Check Valve

1/8 CL

1/8 BL

3/16 CL

Kink Valve

Step 4B: Remove existing handpiece (if needed).
A) Remove tubing from existing handpiece.
B) Remove handpiece.

Step 5B: Install kink valve (if needed).
A) Install new kink valve.

Drive Air

1/8 OR

1/8 PR

Reducer Fitting

1/8 WH

1/8 BL

1/8 CL

3/16 CL

Kink Valve

! **Equipment Alert**
Trim all excess tubing among valves. Failure to do so may cause tubing to kink, which prevents proper operation.

Step 6B: Install tubing to kink valve.
A) Disconnect exhaust line from tubing fitting and plug.
B) Add reducer fitting to drive air line.

To Pressure Sensor

TP201 Rev. A
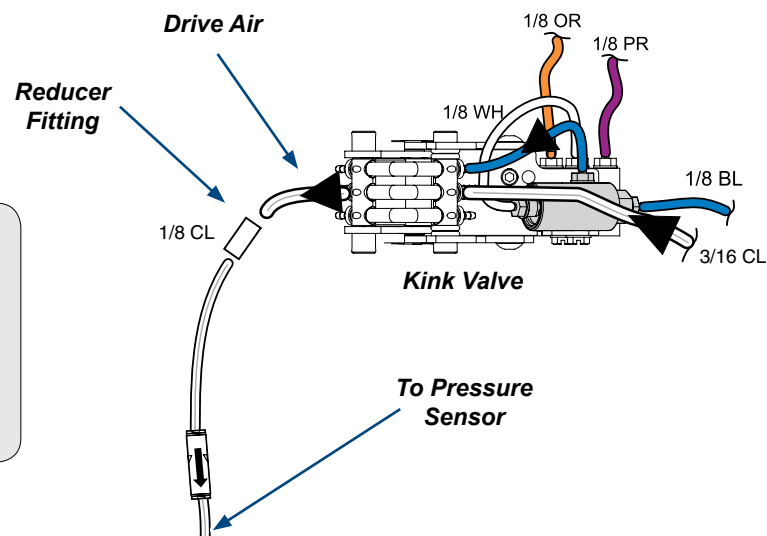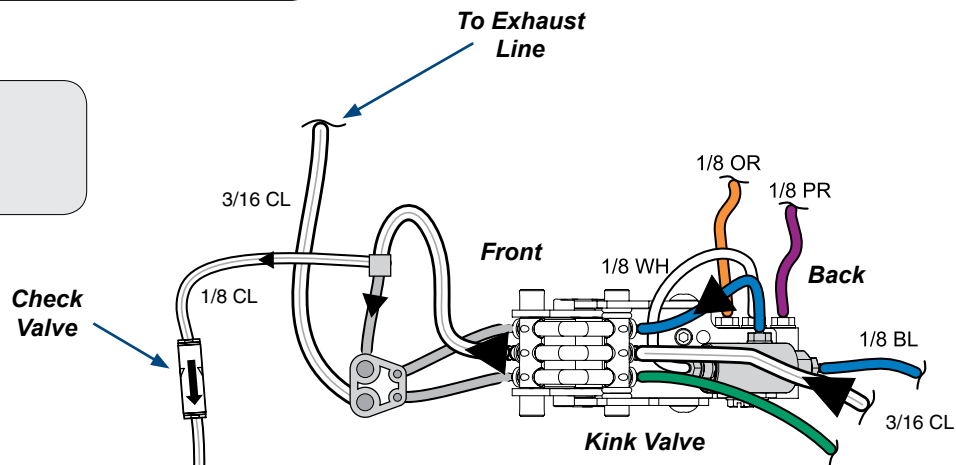
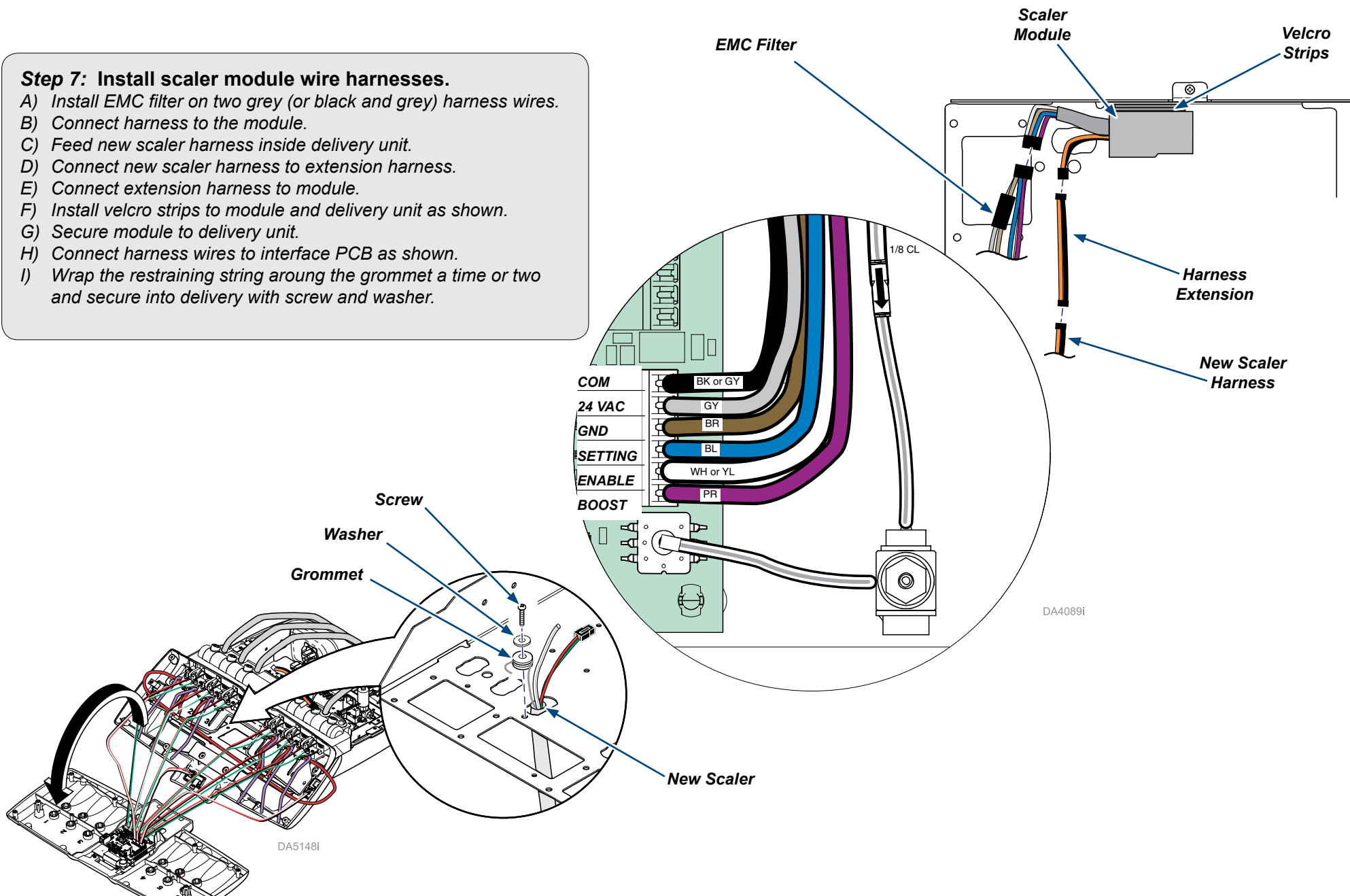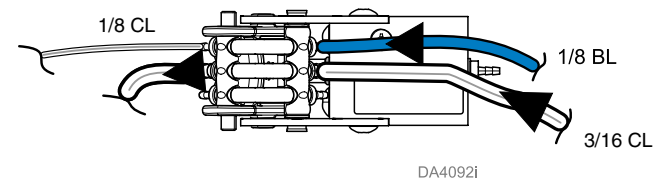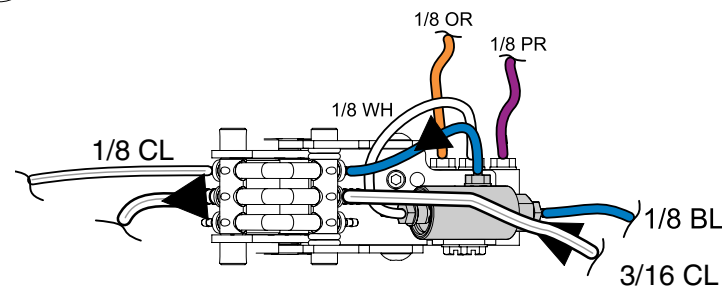| Page Applies To Model Numbers:	Serial Numbers:
All	VXXXXXXX- Present

Equipment Alert

Route wiring carefully to avoid areas where moving parts may damage wires. Do not damage components. Do not scratch surfaces.

Step 7: **Install scaler module wire harnesses.**

A) *Install EMC filter on two grey (or black and grey) harness wires.*
B) *Connect harness to the module.*
C) *Feed new scaler harness inside delivery unit.*
D) *Connect new scaler harness to extension harness.*
E) *Connect extension harness to module.*
F) *Install velcro strips to module and delivery unit as shown.*
G) *Secure module to delivery unit.*
H) *Connect harness wires to interface PCB as shown.*
I) *Wrap the restraining string around the grommet a time or two and secure into delivery with screw and washer.*

EMC Filter

Scaler Module

Velcro Strips

Harness Extension

New Scaler Harness

COM — BK or GY
24 VAC — GY
GND — BR
SETTING — BL
ENABLE — WH or YL
BOOST — PR

1/8 CL

DA4089i

Screw

Washer

Grommet

New Scaler

DA5148i

TP201 Rev. A

Original Kink Valve

Step 8A: Install scaler handpiece tubing
A) Trim tubing to appropriate length and align with existing slots.
B) Carefully strip tubing sheathing back.
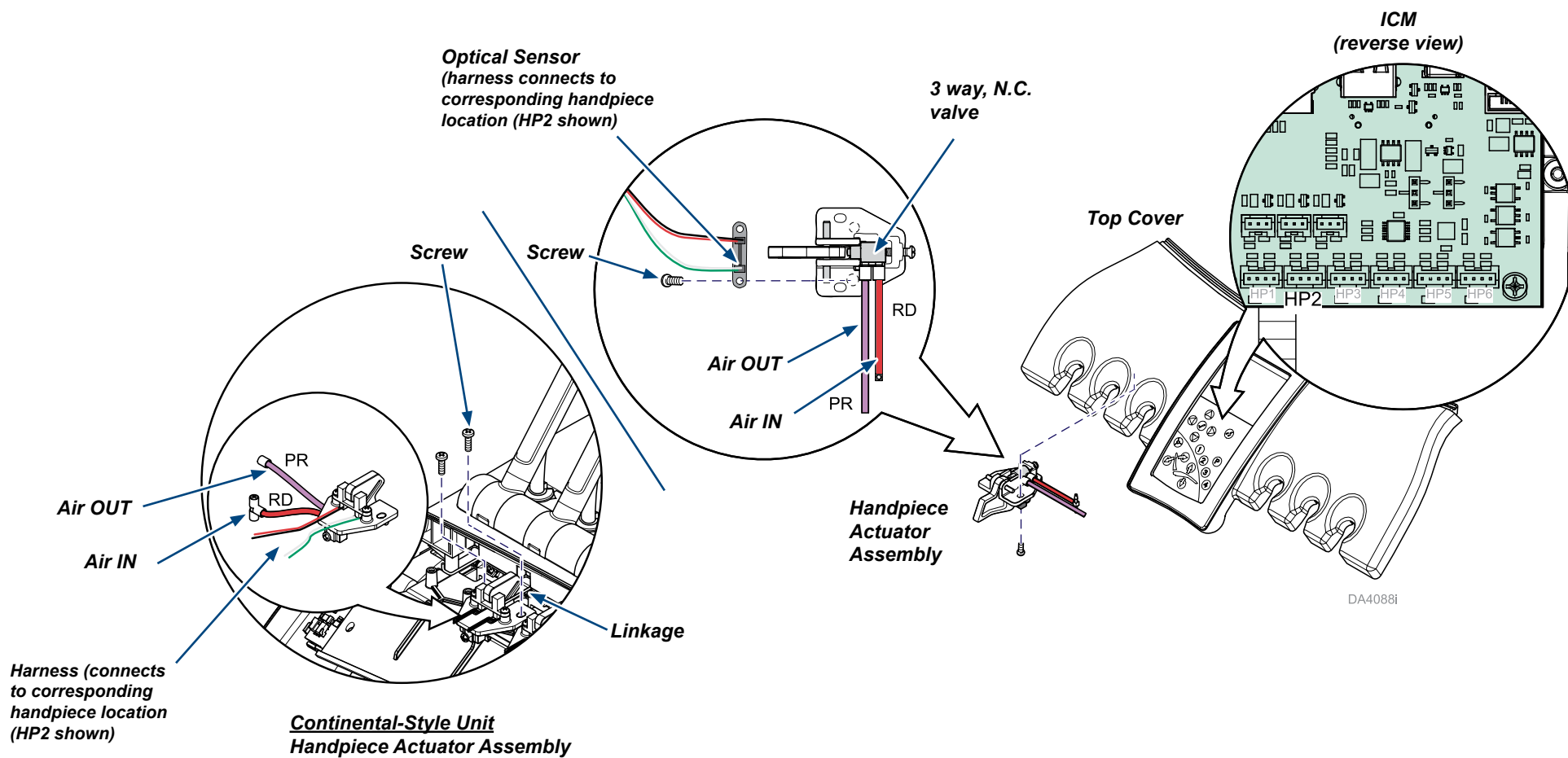C) Connect clear tubing to front of the kink valve as shown.

1/8 CL

1/8 BL

3/16 CL

DA4092i

Page Applies To Model Numbers:	Serial Numbers:
ALL	_V2200 - VXXXXXXX_

Current Kink Valve

Step 8B: Install scaler handpiece tubing
A) Trim tubing to appropriate length and align with existing slots.
B) Carefully strip tubing sheathing back.
C) Connect clear tubing to front of the kink valve as shown.

1/8 OR

1/8 PR

1/8 WH

1/8 CL

1/8 BL

3/16 CL

Page Applies To Model Numbers:	Serial Numbers:
ALL	_VXXXXXXX- Present_

Step 9: Install actuator (if needed).

A) Install actuator using screws and linkage as shown.

Optical Sensor
(harness connects to corresponding handpiece location (HP2 shown)

3 way, N.C. valve

ICM
(reverse view)

Screw **Screw**

Top Cover

RD

Air OUT

PR

Air IN

HP1 HP2 HP3 HP4 HP5 HP6

PR

Air OUT

RD

Air IN

Handpiece Actuator Assembly

Linkage

DA4088i

Harness (connects to corresponding handpiece location (HP2 shown)

Continental-Style Unit
Handpiece Actuator Assembly

TP201 Rev. A

Cable Tie

DA4095i

For Elevance Continental-Style Only:
Step 10: Install cable tie inside strain relief.
A) Install cable tie as shown.
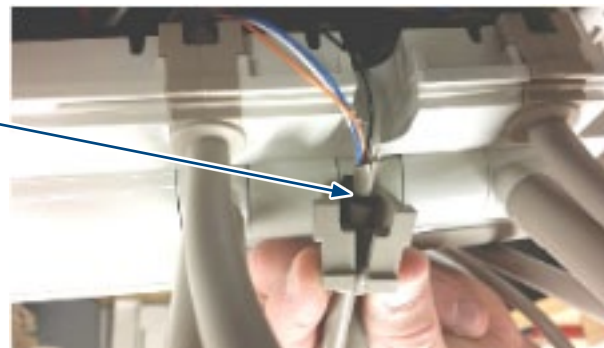
Step 11: Connect power supply and verify operation.
A) Install all lids, pads, and covers.
B) Connect power supply to chair.
C) Move master switch to the ON position.

Note: Operation of the Satelec scaler is integrated with the delivery unit.

Scaler

ON

OFF   **Master Switch**

DA4087i

TP201 Rev. A
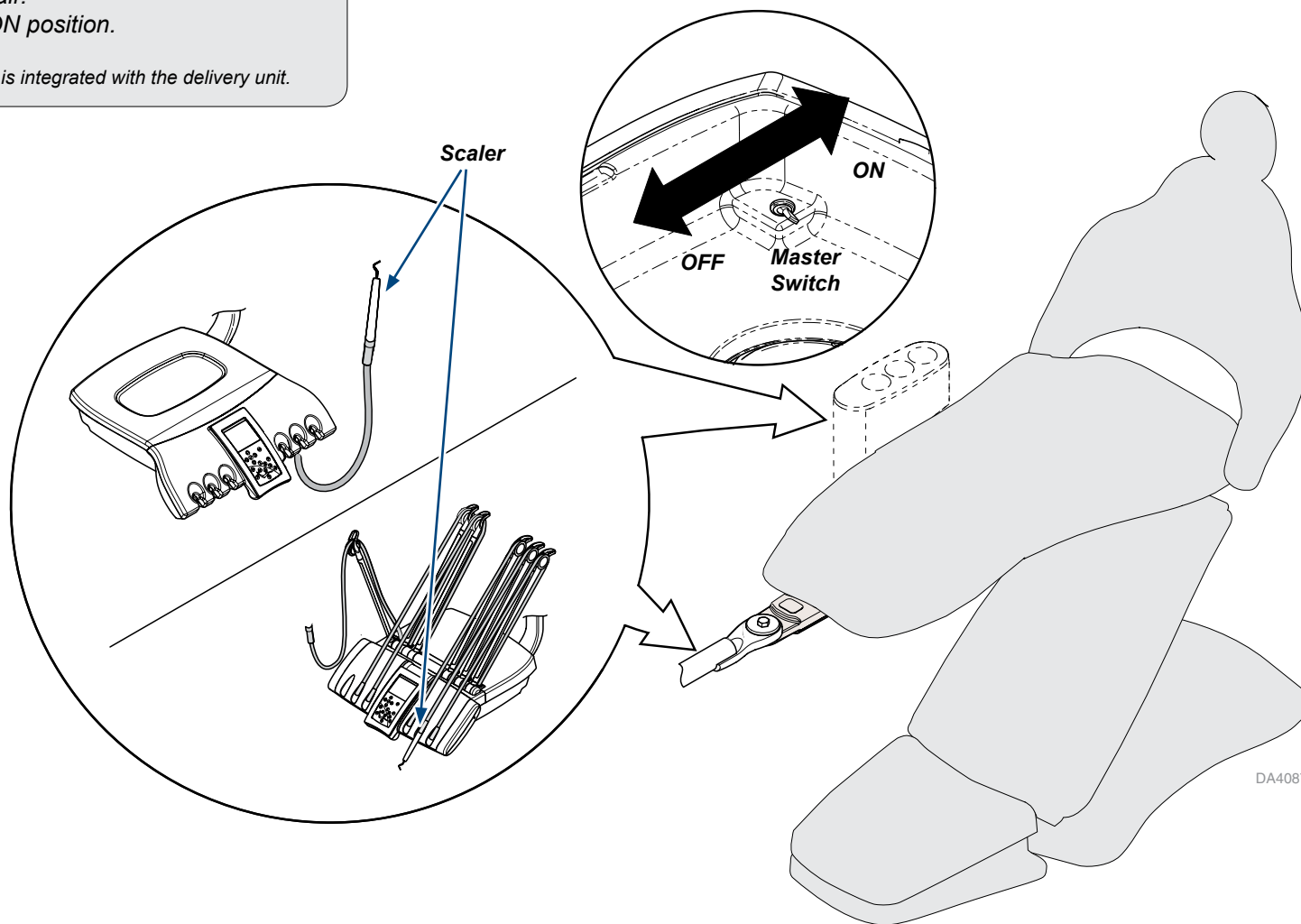
Step 12: Assign scaler handpiece to appropriate holder position.
A) Assign handpieces to proper holder positions and reprogram each handpiece and user preferences.
B) Test handpieces and delivery system to verify functionality.

Model Selection 6 Position 〜〜〜 〜〜〜 4 Position 〜〜 〜〜 **Handpiece Assignment** 〜〜〜 〜〜〜 **Syringe / Camera / Curing Light** Satelec SP Newtron Ultrasonic Scaler Cavitron SPS G90 Utlrasonic Scaler Bien Air MX micromotor 1600375-001 Air Turbine Powered *Configuration/ Handpiece Assignment*	Press ✓ + 🔧 to access the Configuration Screens. Use △ ▽ to highlight 4 or 6 position model and ✓ to select it. The Handpiece Assignment Screen for that model appears: Press ✓ or ◁ ▷ to advance thru available holder positions. The holder position highlights as the handpiece name assigned to that position highlights in the list. **To assign a scaler handpiece type to a holder position:** Press ✓ to advance to the desired holder position. Press △ ▽ to highlight the handpiece name you want to assign, then press ✓ to assign it to highlighted holder position. Continue to press ✓ to advance through remaining holder positions, invoke the System Configuration Saved screen and to exit to Home.

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Step 13: Verify scaler handpiece operation.
A) Place all handpieces into holders and test scaler and delivery system to verify functionality.

Note: Refer to the Satelec scaler manuals for more information on the scaler operating modes and button options.

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	

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