



# ASI

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## Technical Guideline

### Replacing the Ultrasonic Handpiece Cord (Satelec)

**TG-95-0123**  
(0123L, 0123S, 0123LS)

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### PURPOSE

This technical guideline demonstrates how to replace any Ultrasonic Handpiece Cord (95-0123, 95-0123L, 95-0123S, and 95-0123LS).



**WARNING!** Only qualified personnel should service or repair this device. This device should only be serviced/repared by a qualified service technician who is proficient in the repair of electromechanical dental equipment and who understands the complexities and risks of working within the device and observes proper safety precautions.



**WARNING – Compressed Air.** The compressed air system that operates this unit is under pressure. Compressed air can propel dust or loose particles and can cause bodily injury or damage. Always turn the system off and bleed off air pressure before attaching or removing air lines or accessories or servicing this unit. All air lines should be periodically inspected and replaced if worn or damaged. If an outside compressed air supply is used to power this unit, the air supply must be regulated to 80 psi or below. Excessive air pressure could cause certain components to rupture.



**WARNING – Electrical Voltage.** This system is powered by high voltage electricity. Like any other electrically powered device, if it is not used properly, it can cause electrical shock. Always plug the power cord into an electrical outlet with adequate fuse protection and proper grounding. In the event of a short circuit, grounding reduces the risk of shock by providing an escape wire for the electric current. Improper grounding of the unit can result in a risk of electric shock. Always unplug the unit before doing any service or repair to the unit.

### PARTS INCLUDED

- One (1) Ultrasonic Tubing and Strain Relief
- One (1) Straight-through barb/coupler
- Two (2) plastic sleeves

### TOOLS REQUIRED

- Needle-nose pliers
- Wire cutters or scissors



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### INSTRUCTIONS

1. Turn off main power and air supply to unit.
2. Run Air Syringe to relieve compressed air in system.
3. Open the cover of the delivery system according to your delivery system type.
4. Locate the ultrasonic strain relief that attaches under the delivery system. (Fig. 1)

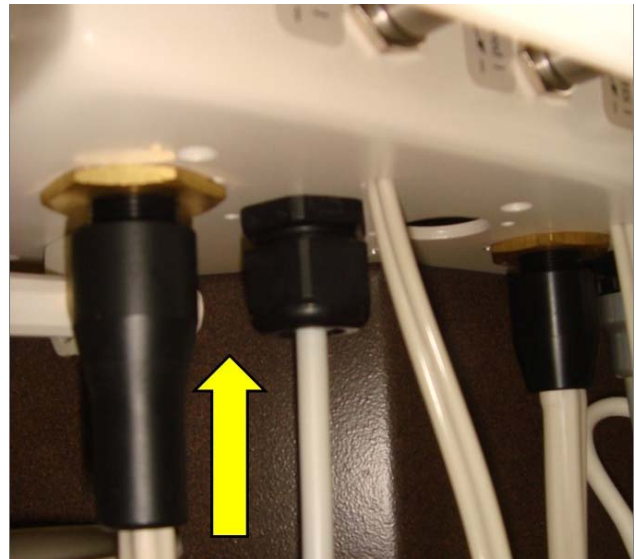


Fig. 1

5. Locate the ultrasonic strain relief inside the cart and follow the attached wires to the ultrasonic board. (Fig. 2) Pinch the Molex connector to disconnect the wires from the board. (Fig. 3)



Fig. 2

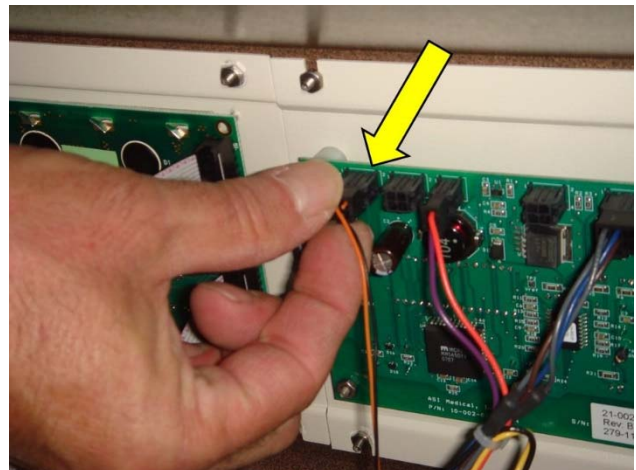


Fig. 3



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6. Follow the clear waterline tubing inside the ultrasonic cord to the straight-through barb/connector and cut connecting blue tube from the coolant control valve. (Fig. 4)

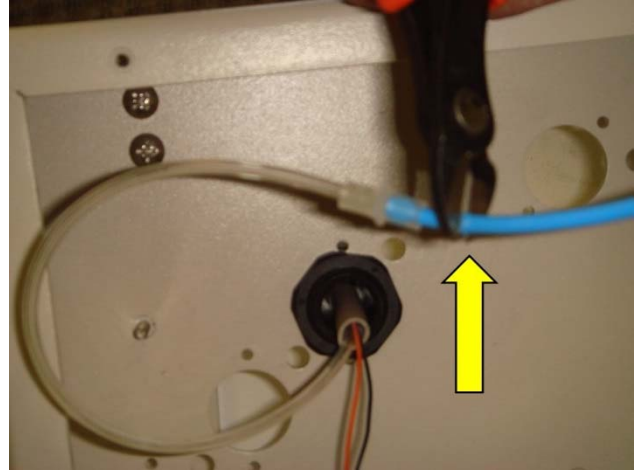


Fig. 4

7. Locate the strain relief inside cart and loosen the black plastic nut with needle-nose pliers, turning counter-clockwise. (Fig. 5) Remove. (Fig. 6)

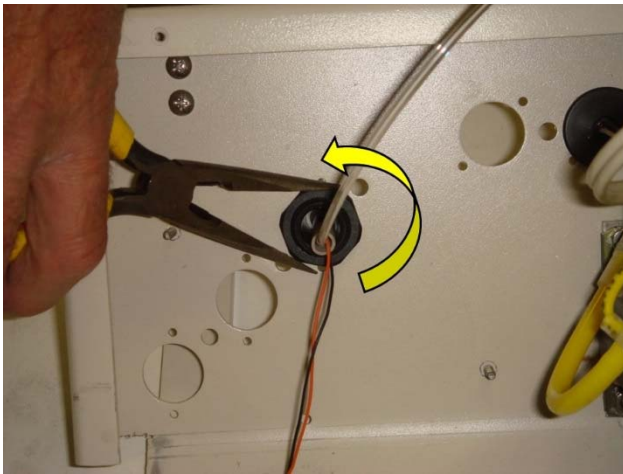


Fig. 5

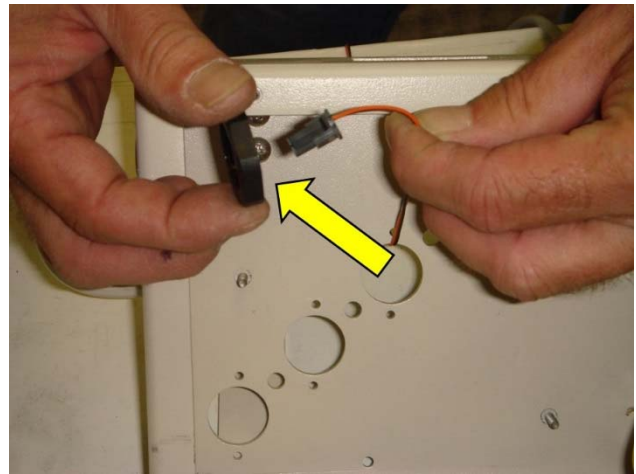


Fig. 6



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8. On the new Ultrasonic Cord, remove the black plastic nut. It is just like the one removed in Step 7. (Fig. 7)

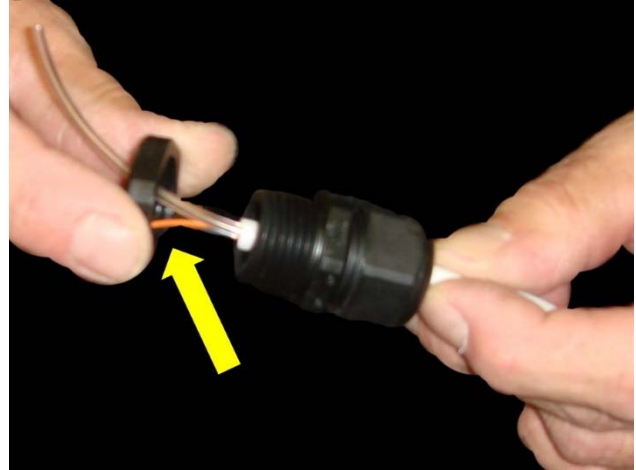


Fig. 7

9. Feed new wires and tubing up through the existing hole in the baseplate.
10. Once the tubing is through the hole, re-string the black plastic nut onto the strain relief and turn clockwise using needle-nose pliers. (Fig. 8)

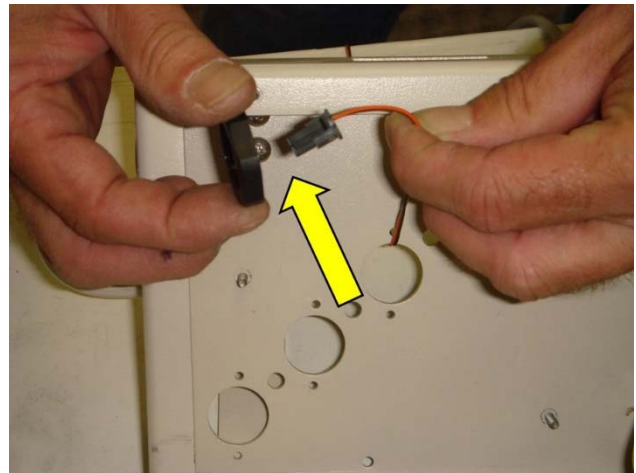


Fig. 8

11. Reconnect the Molex connector in the correct HP1 or HP2 position of the board. (Fig. 9)

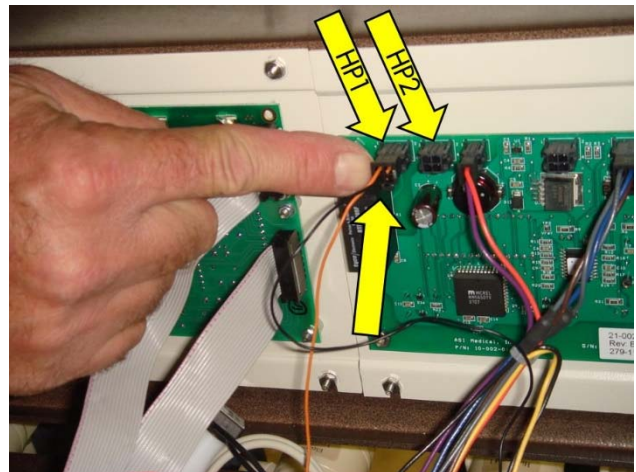


Fig. 9



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12. Locate both ends of the waterline tubing. One will be inside the new ultrasonic cord (clear tubing), and the other will be coming from the control block (blue tubing). Using supplied sleeve, place sleeve over the clear waterline tubing. Using the supplied straight-through barb/connector, insert barb into clear waterline tubing, then push the sleeve over the barb after the tubing is seated. (Fig. 10)

Repeat for the other tubing to join both ends together.

**NOTE:** Pulling back on the tubing while sliding the sleeve forward will help seat and secure the sleeve.

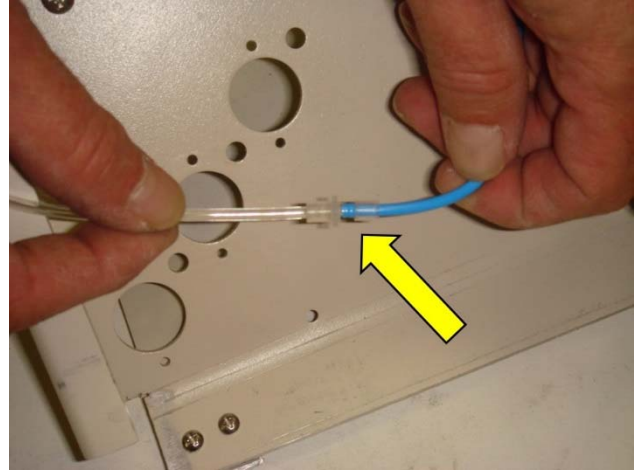


Fig. 10

13. Restore power to the unit and verify installation by testing for proper function.