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Technical Guideline

Replacing the Fiber Optic Handpiece Tubing (50" & 60" lengths)

TG-95-0114
 95-0265

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PURPOSE

The purpose of this technical guideline is to demonstrate how to replace fiber optic handpiece tubing in ASI delivery systems. Tubing length may be 50" or 60".

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CAUTIONS



WARNING! Only qualified personnel should service or repair this device. This device should only be serviced/repaired 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 – 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.



WARNING – Presence of Heavy Metals/Amalgam. This cart may be equipped with optional suction instruments. As part of dental procedures, particles of amalgam may be suctioned into the dental suction handpieces and collected within the system and trap filter.



WARNING – Infectious Materials. Infectious disease workplace safety protocols to safeguard against cross contamination of infectious disease should always be observed. When maintaining the suction system or emptying the contents of the suction waste container, safe precautions and practices including the wearing of face mask, eye protection and gloves are to be followed.



CAUTION! The irrigation system may contain chemicals that are caustic or corrosive. Always verify with the operator of the system to determine which chemicals they are using within the system. Always follow workplace safety protocols when doing maintenance or service of the system including the wearing of face mask, eye protection and gloves for proper protection of exposed skin, breathing and eyes.

PARTS INCLUDED

- Fiber optic tubing and strain relief

TOOLS REQUIRED

- Flat head screwdriver



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INSTRUCTIONS

1. Turn off main power and air supply to unit.
2. Open top of delivery system and locate the fiber optic power pack. Locate the two black wires that are attached to the port labeled, "HP 1". Loosen the set screws with a small flat head screwdriver and remove the wires. (Fig. 1)

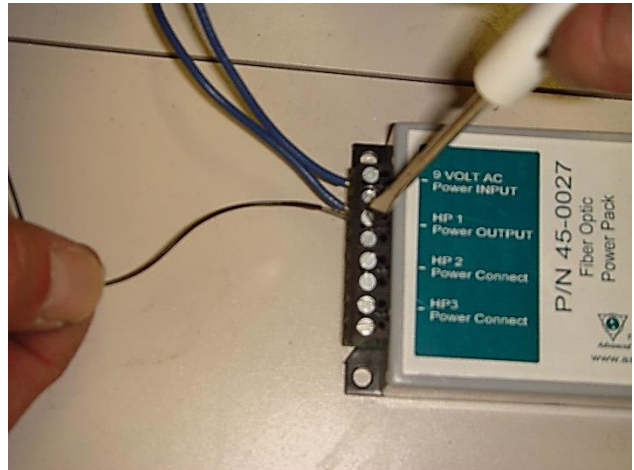


Fig. 1

3. From the outside of the unit, locate the black bulkhead for high-speed handpiece and remove. (Fig. 2, Fig. 3)



Fig. 2



Fig. 3



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4. On the new fiber optic handpiece cord, there are two black wires that extend out of the tubing. Make sure those wires are not crossed or tangled. Thread wires through the small holes in the bulkhead attached to the unit. (**Fig. 4, Fig. 5**)



Fig. 4



Fig. 5

5. From the outside, line up pins on bulkhead. Tighten the black plastic nut.

NOTE: Be sure the two black wires do not get pinched. (Fig. 6)



Fig. 6



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- From inside the unit, locate the black wires that you just pulled through; slide the exposed metal end into the two ports on the fiber optic power pack labeled, "HP 1". Once you have inserted them, tighten down the screws with a small flat head screwdriver. (**Fig. 7**)

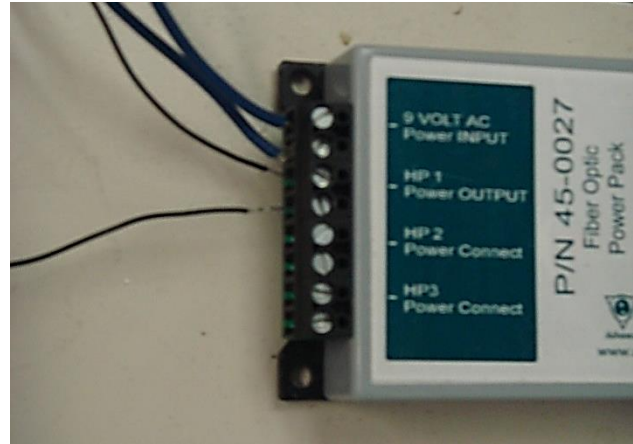


Fig. 7

- Gather the extra length in wires and slide into provided clip to keep them from getting tangled. (**Fig. 8**)

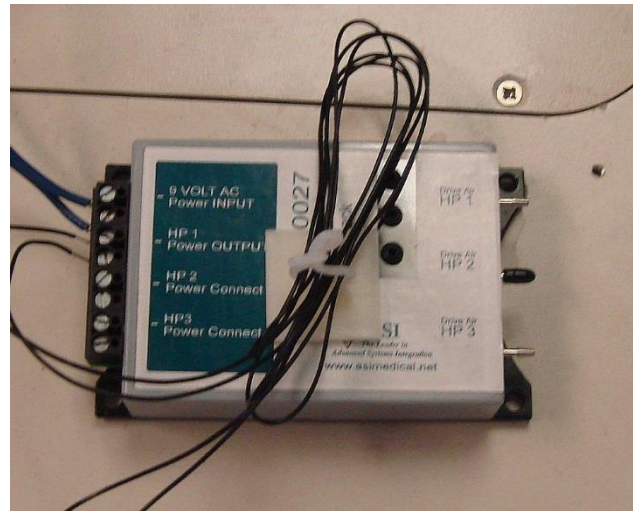


Fig. 8

- Close the delivery system top.
- Restore power to unit; run the fiber optic handpiece to test for proper functions.