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Technical Guideline

Installing an Auxiliary Foot Control

TG-90-I225

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PURPOSE

The purpose of this Technical Guideline is to provide step-by-step instruction for the installation of an auxiliary foot control.

NOTE: The foot pedal being installed may differ from the one shown in the figures, but the wiring will connect the same.

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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 – 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.



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PARTS INCLUDED

- Male and female Lemo connectors
- Tubing, heat shrink 2" long, black 1/2" ID
- Tubing, heat shrink 2" long, black 1/4" ID

TOOLS REQUIRED

- Side cutters
- Soldering iron kit
- Wire stripper

INSTRUCTIONS

1. Turn off electrical power to unit and unplug.
2. Cut the foot control cable 12" from the pedal.
(Fig. 1)



Fig. 1

3. Trim back the outer jacket to expose wires on both the pedal end and the connector end of the foot pedal cable. The foot pedal with connector is done so if you want to use a table top away from the cart, just disconnect from the cart and attach to the foot pedal and you're ready to use.
(Fig. 2, Fig. 3, Fig. 4)



Fig. 2



Fig. 3



Fig. 4



4. Disassemble the Lemo connectors as shown in Fig. 5 through 10. Slide the nut and the strain relief onto the cable. Solder wires exposed to the Lemo connectors. The female connector goes onto the foot pedal; the male Lemo connector attaches to the connector end of the cable. Heat shrink each wire as you solder it. The polarity of the wires does not matter since the wires are for ON/OFF switch (foot pedal). Reassemble connectors.



Fig. 5



Fig. 6



Fig. 7



Fig. 8



Fig. 9



Fig. 10

5. Set the table top instrument on and plug the male Lemo connector into the female Lemo.
6. Plug unit in and restore main power.
7. Verify proper installation as follows:
 - a. Turn cart ON and make sure air pressure is ON.
 - b. Turn table top instrument ON.
 - c. Pick motor cord.
 - d. Depress foot pedal; motor should run.If motor does not run, check Lemo connector wiring and retest.