



The Leader In Advanced Systems Integration
Advanced Dental Systems® & Advanced Endodontic Systems®
www.asimedical.net | (303) 766-3646

Technical Guideline

Removing and Replacing Normally Closed and Normally Open Air Electric Switches

TG-95-0137

TG-95-0138

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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) air electric switch
- One (1) tubing sleeve
- One (1) 1/8" barb coupler/connector
- OR–
- One (1) 1/16" barb coupler/connector

TOOLS REQUIRED

- Side cutters or scissors

INSTRUCTIONS

1. Turn off main power and air supply to unit.
2. Run air/water syringe to relieve compressed air in system.
3. Open the top of the delivery system according to delivery system type.
4. Locate Air Electric (A/E) switch inside the system. (Fig. 1, Fig. 2)

NOTE: The white label on the switch will have either 80-0198 N/O (Normally Open) or 80-0199 N/C (Normally Closed).



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Fig. 1

80-0198 N/O air electric switch

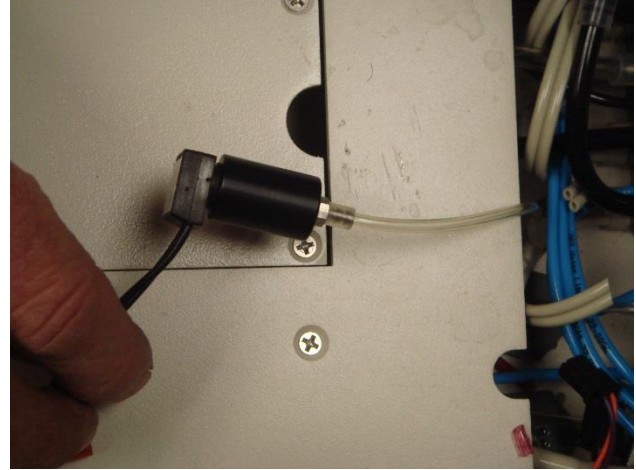


Fig. 2

80-0199 N/C air electric switch

5. If there is a cable/zip-tie around the cable bundle, clip that for better access.
6. Disconnect the Molex® connectors on the wiring harness by pressing the tabs on the connectors and pulling apart. (Fig. 3)

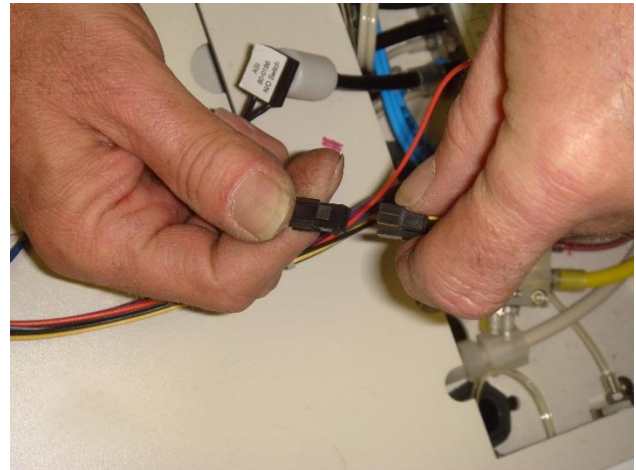


Fig. 3

- Using side cutters or scissors, snip the tubing of the A/E switch being replaced.

NOTE: 1/4" tubing for N/O A/E switch; 1/8" tubing for N/C A/E switch
Discard old A/E switch. (Fig. 4)

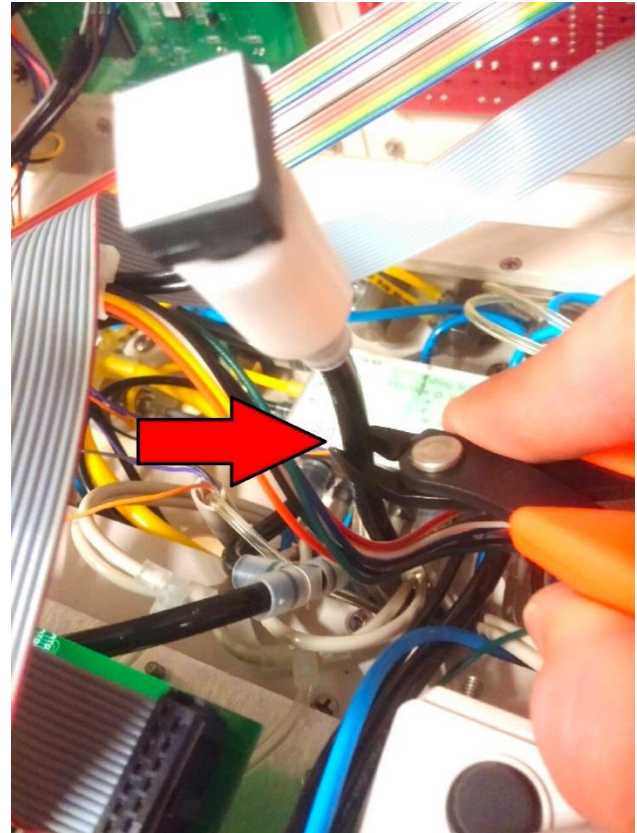


Fig. 4

Red arrow demonstrates snipping the tubing.

- Attach new A/E switch using connector barb to cut tubing from control block. (Fig. 5)

NOTE: Use 1/8" connector barb for N/O A/E switch; use 1/16" connector barb for N/C A/E switch.

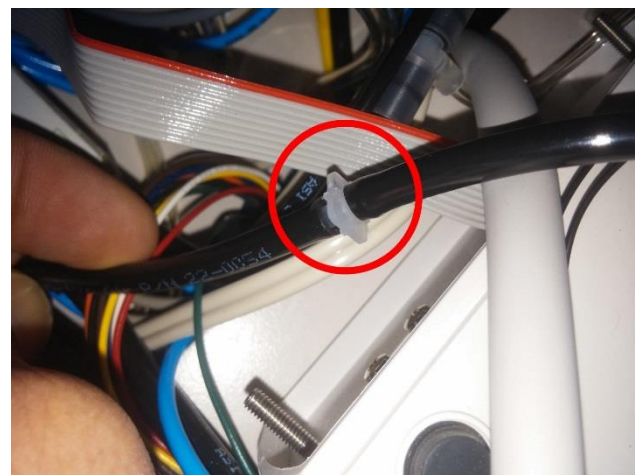


Fig. 5

- Reconnect Molex® connector.

- Restore power to unit and verify correct installation by testing instrument for proper function.



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NOTE: Alternate install is to remove the tubing sleeve from the control block, remove from steel barb, attach new A/E switch, and reapply tubing retainer.

NOTE: Your existing A/E switch may look like the ones shown in Fig. 6. Instructions for replacement will be the same as above.

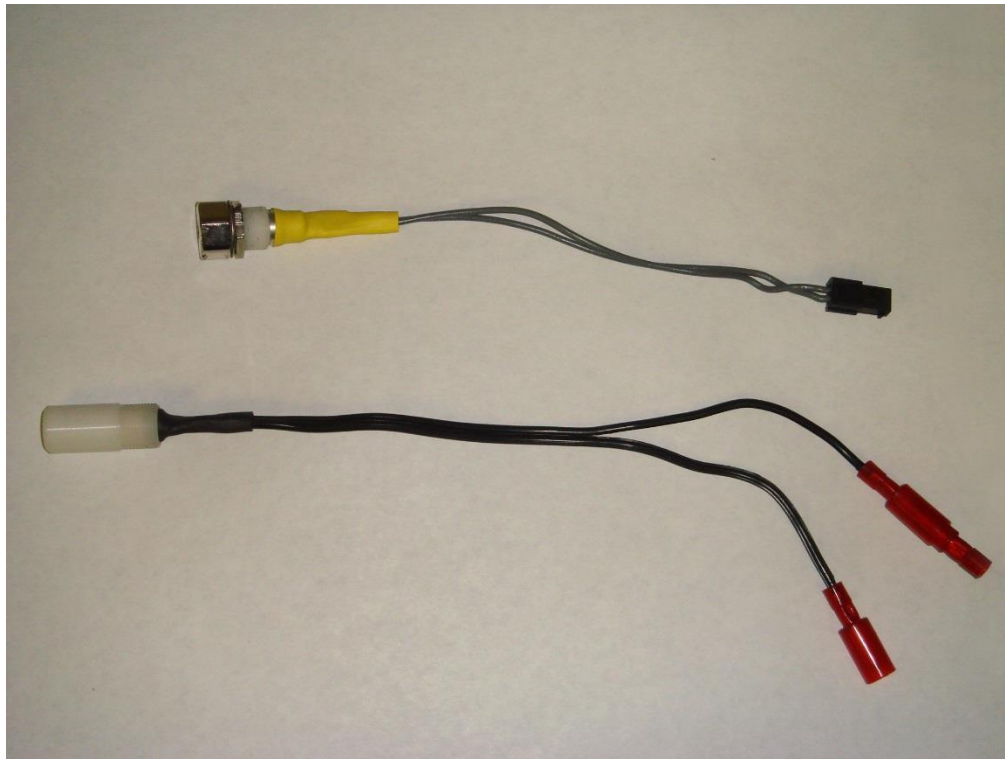


Fig. 6