



# ASI

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## Technical Guideline

### Replacing the Quick Connect Air or Water Convenience Outlet

TG-95-0248

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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 – 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

- Air outlet quick connect, 1
- Tubing sleeves, 1

#### TOOLS REQUIRED

- Side cutters or scissors
- 9/16" wrench
- Adjustable wrench or second 9/16" wrench
- Flat head screwdriver\*
- Phillips head screwdriver, #2\*

\*needed for Elite System only

#### INSTRUCTIONS FOR CLASSIC SYSTEMS

For instructions for Elite System, please skip ahead to Step 10.

1. Turn off main power and air supply to unit.
2. Run air/water syringe to relieve compressed air in system.
3. Open top of the unit by removing thumb screws along the bottom of delivery system head and hinging forward.



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4. In the back of the cart, locate and cut 1/4" yellow air line as close to the barb as possible using side cutters or scissors. Remove clear plastic sleeve and set aside. (Fig. 1)

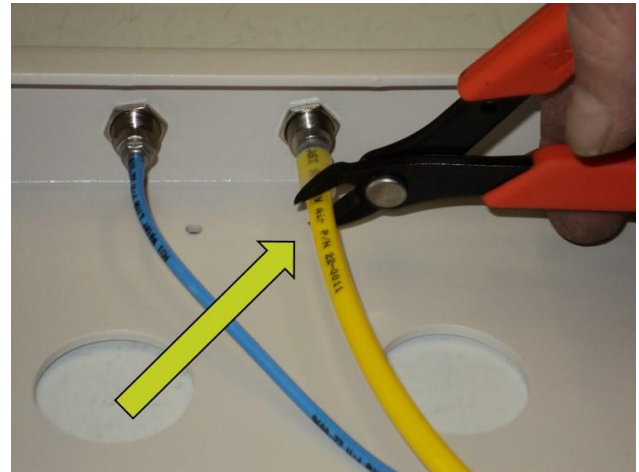


Fig. 1

5. Using a 9/16" wrench on the inside nut and a 9/16" wrench or adjustable wrench on the outside, loosen nut. (Fig. 2)

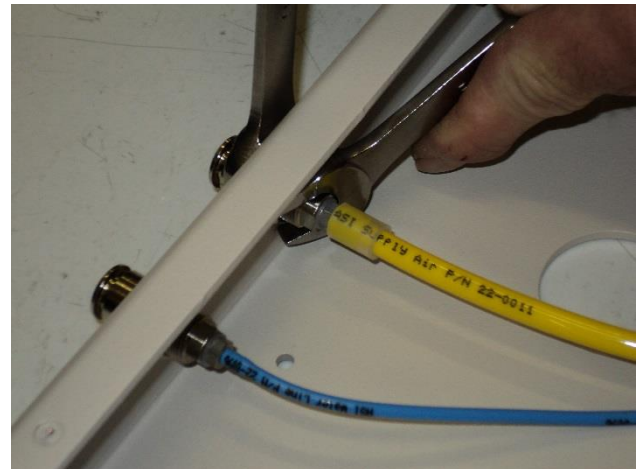


Fig. 2

6. Once the nut has been loosened, you can remove it by hand to pull out the air instrument quick connect. (Fig. 3)

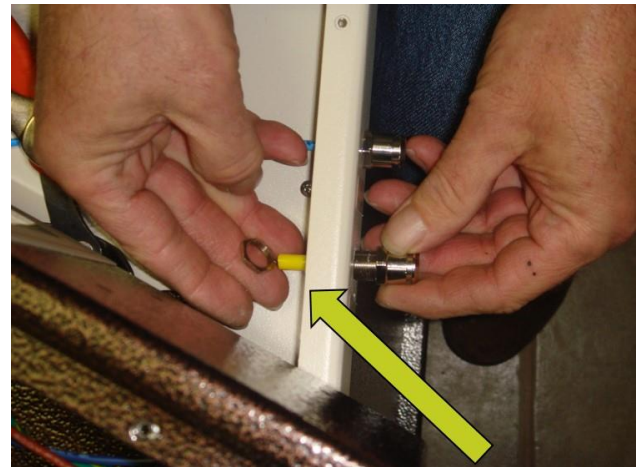


Fig. 3

Arrow shows quick connect nut



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7. Install new quick connect in place using a 9/16" wrench to tighten nut. Using a 9/16" wrench on the inside nut and a 9/16" wrench or adjustable wrench on the outside, tighten nut.
8. Attach 1/4" yellow air line tubing onto the new quick connect and use provided sleeve to secure. (Fig. 4)



Fig. 4

9. Close delivery system top. Restore power to unit, verify correct installation by checking for leaks and proper functions.

#### INSTRUCTIONS FOR ELITE SYSTEMS

10. Turn off main power and air supply to unit.
11. Run air/water syringe to relieve compressed air in system.
12. Remove worktop and locate Phillips head screws. Remove screws to open access panel in top of unit.



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13. There are fifteen (15) Phillips head screws around the perimeter of the delivery system head; removal of the screws and set aside. (Fig. 5)

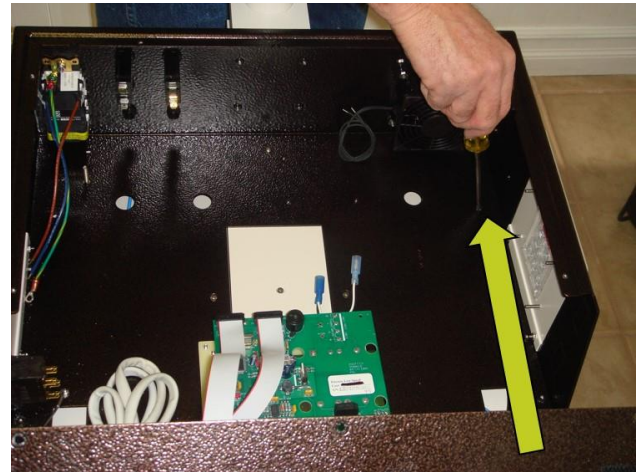


Fig. 5

Arrow shows location of screws around perimeter of the delivery head.

14. Locate any applicable circuit board plates and unstick from baseplate. (Fig. 6)

**NOTE:** The baseplate is held down by heavy duty double-sided tape. You will need to insert a flat head screwdriver underneath the board and turn until you hear a “pop” indicating that the board plate is now disconnected from baseplate.

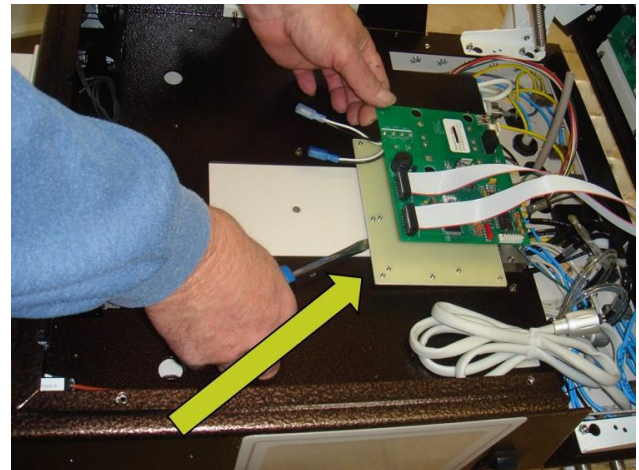


Fig. 6

Arrow shows lifting circuit board plate being lifted off baseplate.





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15. If necessary, disconnect ribbon cables from the display board to assist in relocating board plate. (Fig. 7)

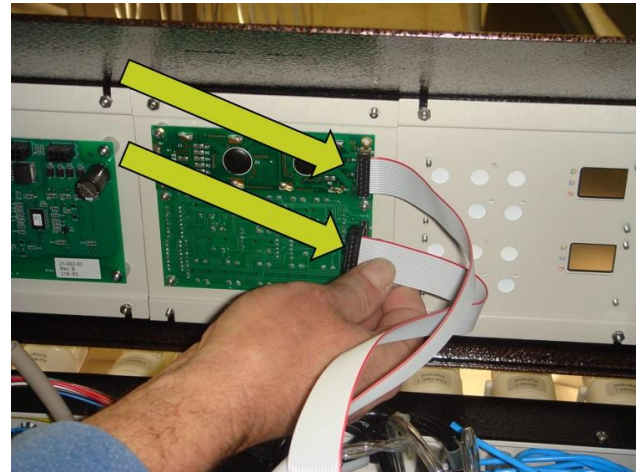


Fig. 7

Arrows show ribbon cables being disconnected.

16. Once you have removed any board plates, set aside in an available area inside delivery system that is clear from the center access panel. (Fig. 8)

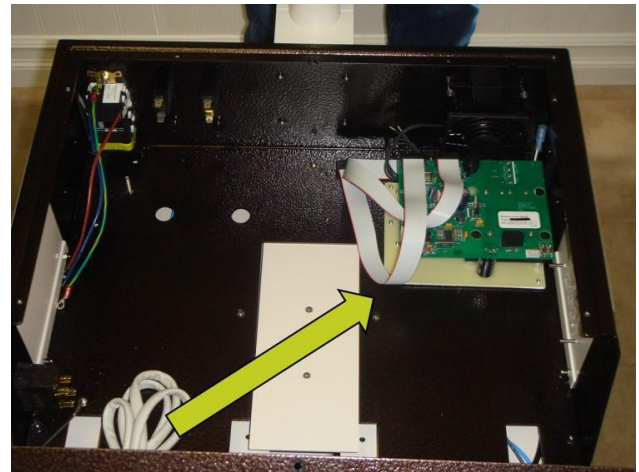


Fig. 8

Arrow shows location to place board plate out of the way.



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17. Remove the two Phillips head screws to remove the access panel. (Fig. 9)



Fig. 9

18. Standing behind the cart, carefully lift up the delivery system head and turn slightly to the left, exposing the quick connect. (Fig. 10, Fig. 11)

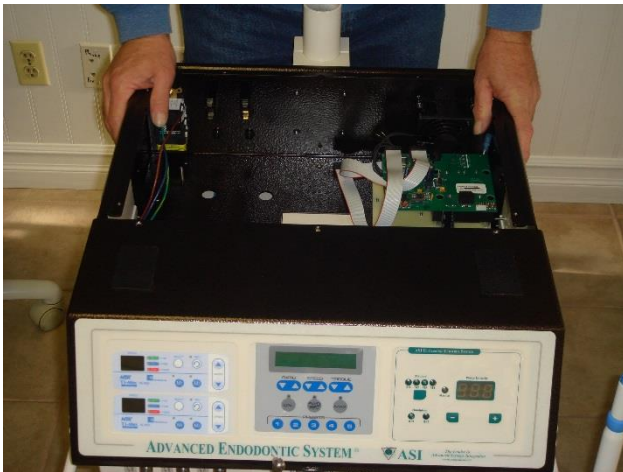


Fig. 10

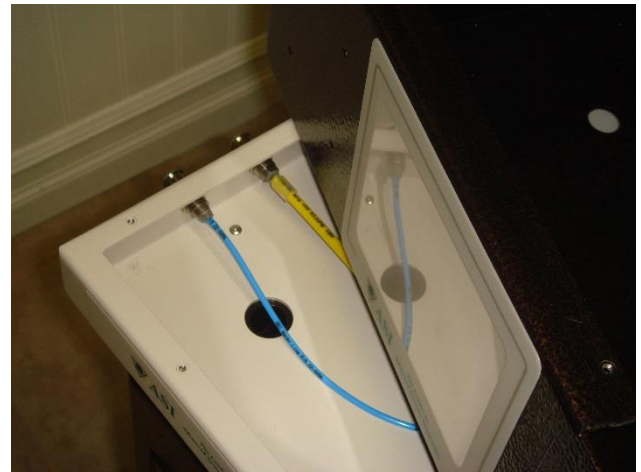


Fig. 11



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19. Cut 1/4" yellow air line as close to the barb as possible using side cutters or scissors. Remove clear plastic sleeve and set aside. (Fig. 12)



Fig. 12

20. Using a 9/16" wrench on the inside nut and a 9/16" wrench or adjustable wrench on the outside, loosen nut. (Fig. 13)



Fig. 13

21. Once the nut has been loosened, you can remove it by hand to pull out the air instrument quick connect. (Fig. 14)

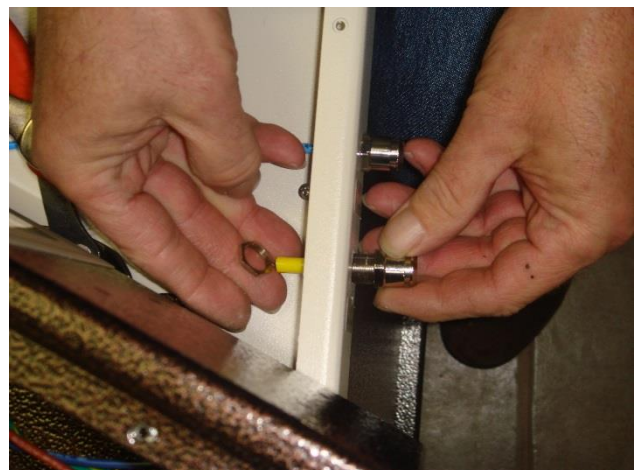


Fig. 14



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22. Install new quick connect in place using a 9/16" wrench to tighten nut. Using a 9/16" wrench on the inside nut and a 9/16" wrench or adjustable wrench on the outside, tighten nut.

23. Attach 1/4" yellow air line tubing onto the new quick connect and use provided sleeve to secure. (Fig. 15)



Fig. 15

24. Turn delivery system head back to the original position. Tighten all screws and re-assemble cart in reverse order using the above instructions.

25. Power unit back on; test to verify there are no leaks.