



ARM MOUNTED WATER SYSTEM FOR DCI EDGE REAR DELIVERY UNITS

Installation Instructions

RECOMMENDED TOOLS AND PPE

TOOLS

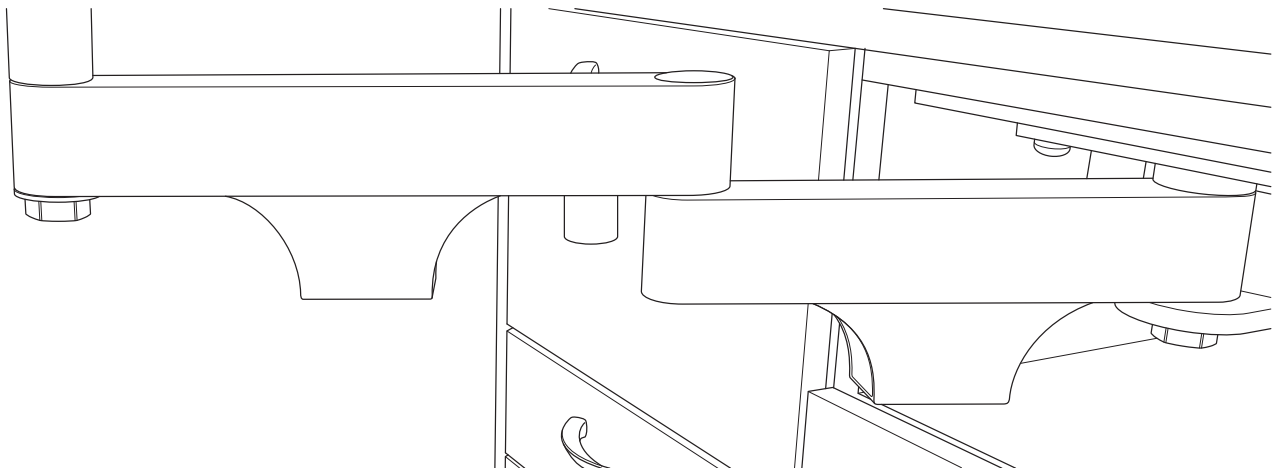
- Twine or Fish Tape
- Right-Angle Driver w/#2 Phillips Bit
- #2 Phillips Screwdriver
- #1 Phillips Screwdriver
- 1/8 Hex Key
- 9/16 Combination Wrench
- 9/16 Hollow Shaft Nut Driver
- 1/4 Hollow Shaft Nut Driver
- Side Cutters
- Sleeve Pusher
- 2x Rubber Bands
- 2x Surgical Gloves (4 Mil)
- Paper Towels

PPE

- Safety Glasses •
- Barrier Mask •
- Surgical Gloves (4 Mil) •

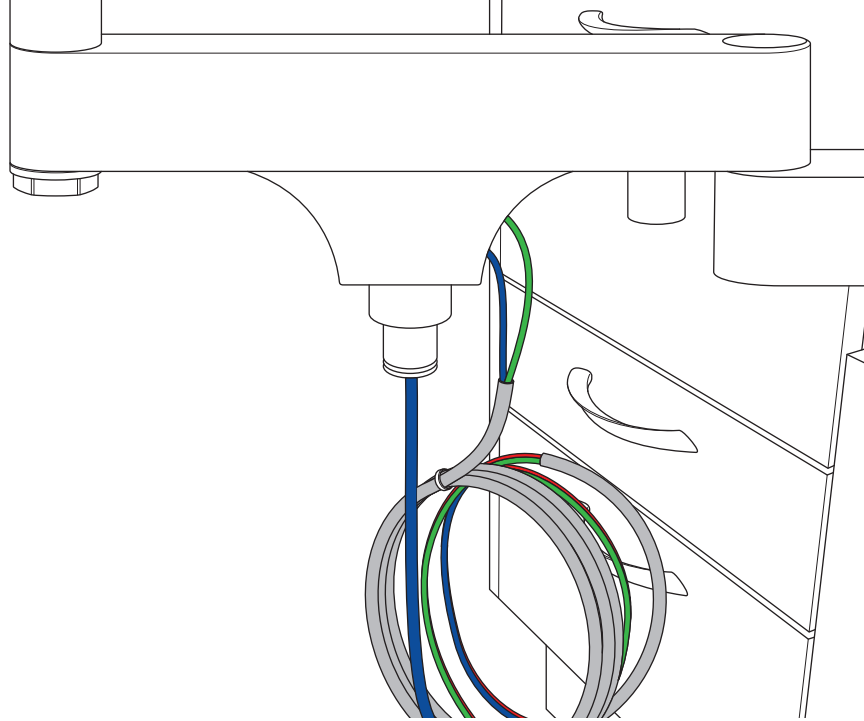
INSTALLATION PREPARATION

1. Thoroughly flush the vacuum system, then turn the vacuum pump off.
2. Purge the water from the dental unit, then turn the dental unit off.
3. Close the ball valves for the air and water supply to the utility center.
4. Power off the dental chair. (Steps 5 thru 8 may be skipped if the dental unit does not have a touch pad connected to the chair.)
5. Remove the junction box cover, chair pump cover and the clear PCB cover on the chair power supply.
6. Disconnect the dental unit touch pad harness from the chair power supply PCB.
7. Attach twine to the end of the touch pad harness. Do not damage the wires, pins or connector housing.
8. Pull the harness back through the floor chase and out of the cabinet, disconnect the twine. Leave the twine in the floor chase.
9. Disconnect the unit umbilicals from the utility center and the foot control (rheostat). Use paper towels for any residual water from the umbilicals and utility center.
10. Pull the unit umbilicals out of the cabinet.
11. Disconnect the vacuum line. Cover the end of the vacuum line with surgical gloves and secure with the rubber bands.
12. Pull the vacuum line out of the cabinet.
13. Pull the dental unit umbilicals, touch pad harness and vacuum line through both articulating arms on the dental unit.
14. Using a 1/8 hex key, remove the umbilical hanger from the long-articulated arm on the dental unit.
15. Remove the cabinet mounted water system and associated tubing from the cabinet.

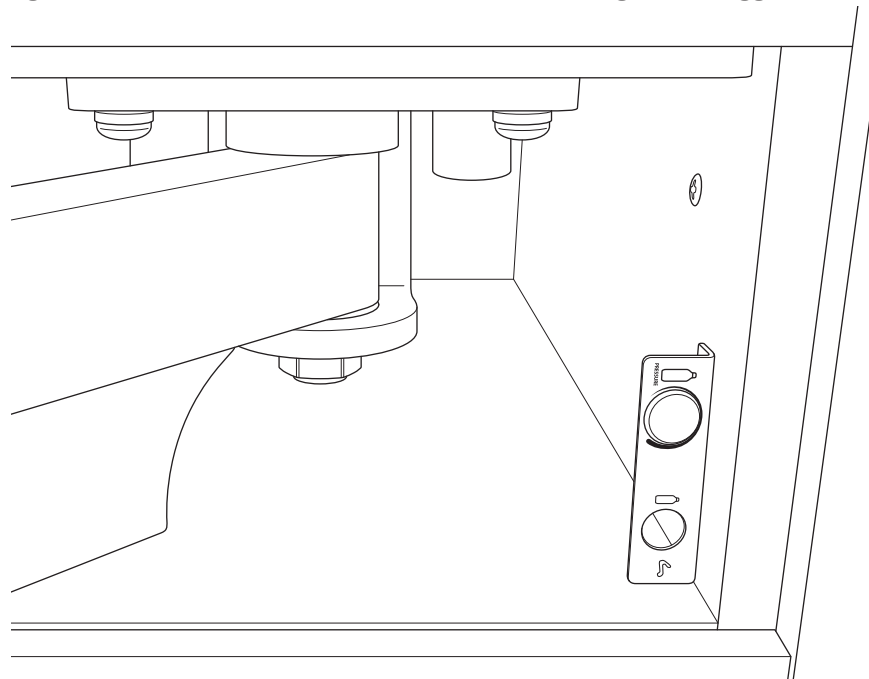


WATER SYSTEM INSTALLATION

- 1** Using a 1/8 hex key, install the water system manifold/umbilical hanger assembly to the long-articulating arm with the supplied 10-32 screws.

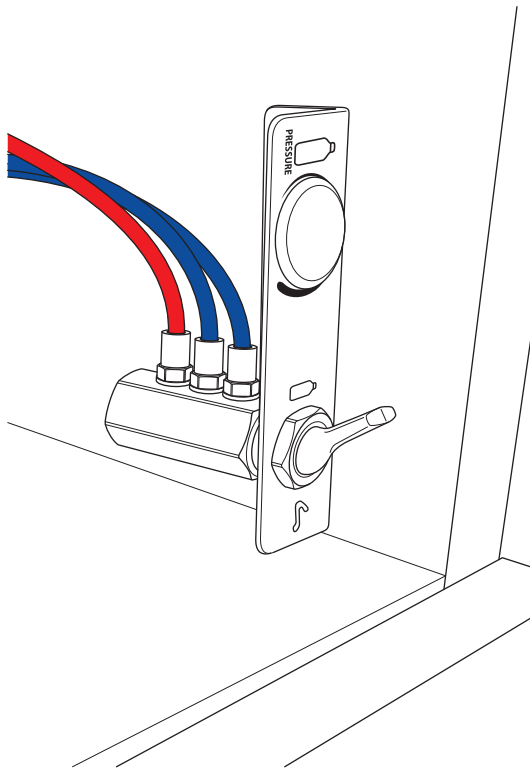


- 2** Using a Right-Angle Driver w/#2 Phillips bit, install the routing valve bracket to the cabinet with the supplied 6-18 screws. Ensure that the bracket is back far enough in the cabinet that the umbilical hanger will not come into contact with the routing valve toggle.



WATER SYSTEM INSTALLATION

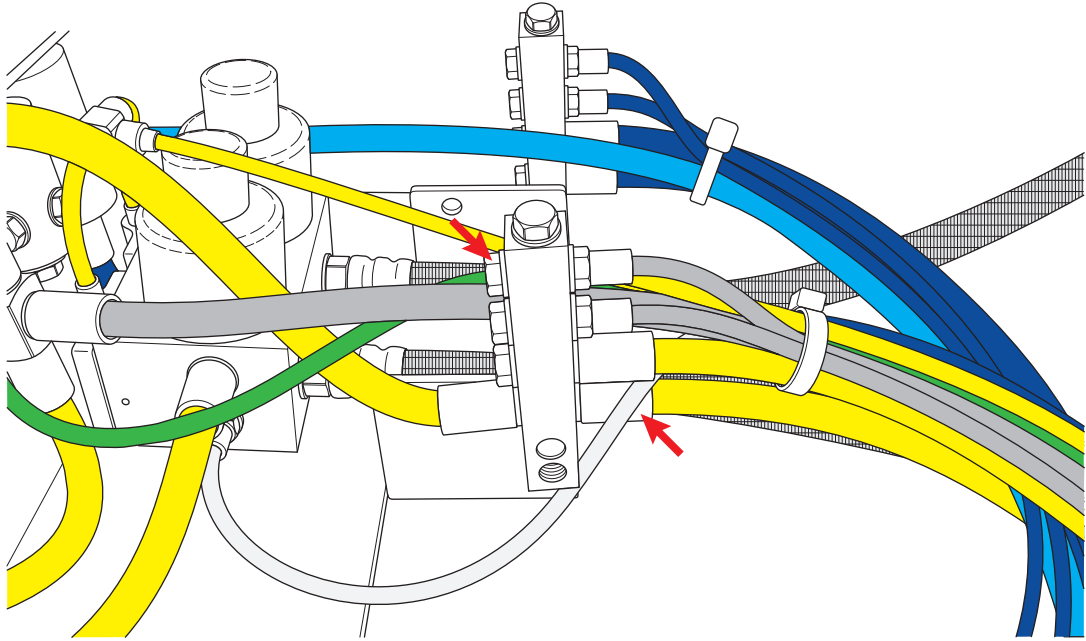
- 3** Route the water system umbilical and routing valve through the umbilical hanger on the short-articulating arm.
- 4** Using a 9/16 nut driver and a combination wrench, install the routing valve to the bracket.



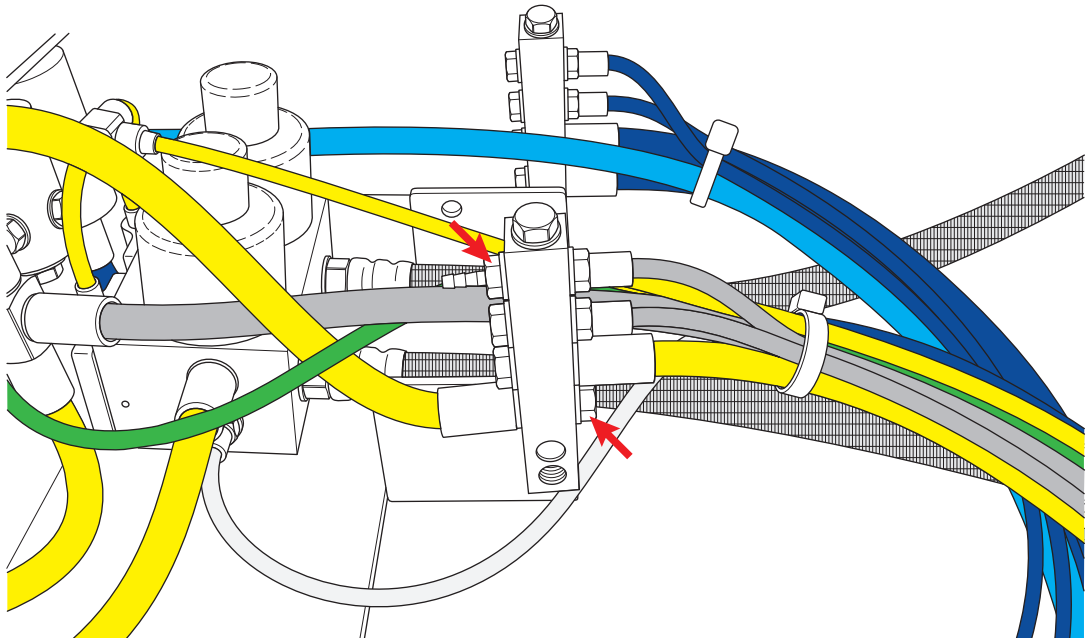
- 5** Route the unit umbilicals, touch pad harness and vacuum line back through both umbilical hangers. Route all umbilicals, touch pad harness and vacuum line through the cabinet to the floor utilities.
- 6** Connect the touch pad harness to the twine. Do not damage the wires, pins or connector housing and pull the touch pad harness back through the floor chase to the dental chair.
- 7** Connect the touch pad harness to the chair PCB. Install the clear PCB cover to the chair power supply. Install the chair pump cover and the junction box cover.

WATER SYSTEM INSTALLATION

- 8** At the utility center, using 1/4 nut driver remove the plug from top of the air distribution block. Using side cutters and 1/4 nut driver, remove the 1/4 yellow tubing and barb from the bottom of the air distribution block.

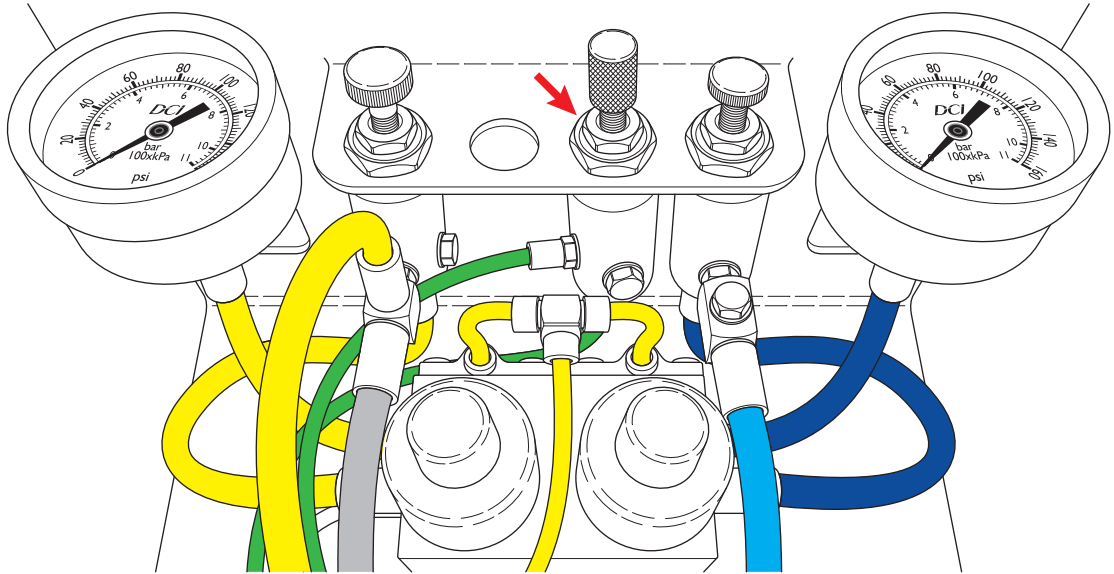


- 9** Using 1/4 nut driver, install the supplied 1/16 barb w/plastic washer to the top of the air distribution block and install the supplied plug w/plastic washer to the bottom of the air distribution block.

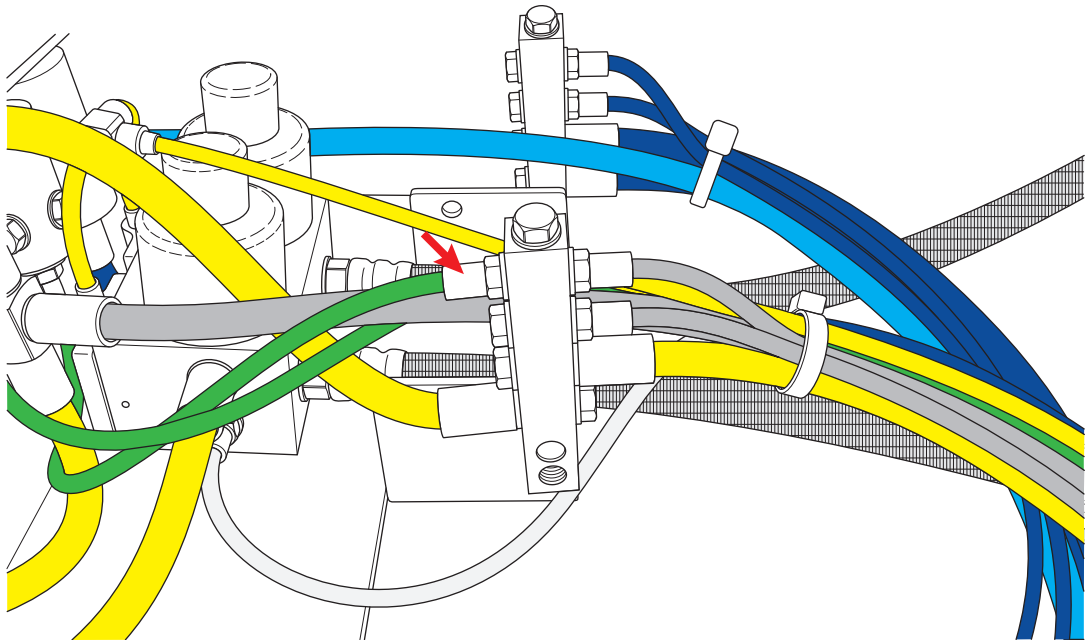


WATER SYSTEM INSTALLATION

- 10** Using a 9/16 nut driver, install the supplied water bottle regulator to the utility center bracket.

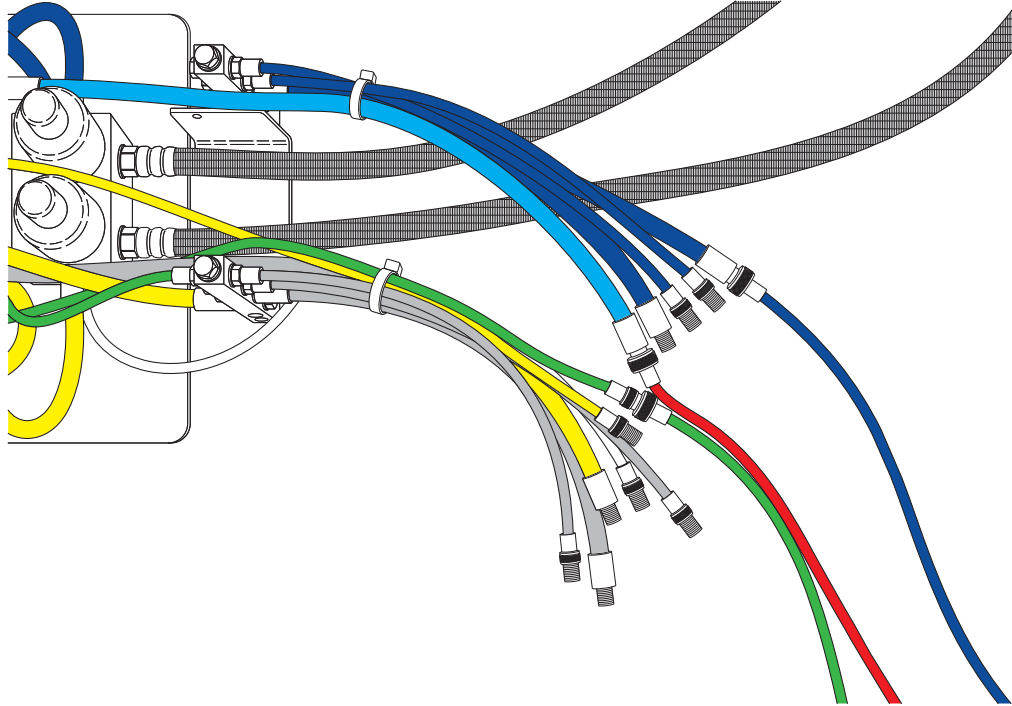


- 11** Using a sleeve pusher and supplied sleeve, install the green tubing from the bottom of the water bottle regulator to the top barb on the air distribution block.

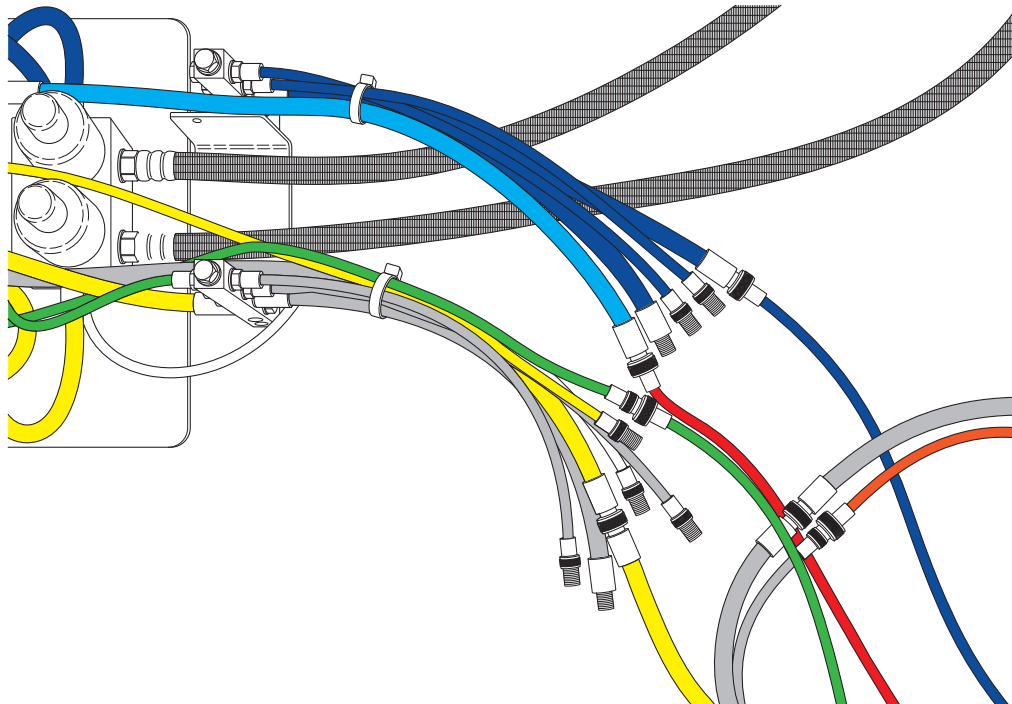


WATER SYSTEM INSTALLATION

- 12** Connect the water system to the utility center: 1/8 dark blue to 1/4 dark blue, 1/8 red to 1/4 light blue, 1/8 green to 1/8 green.

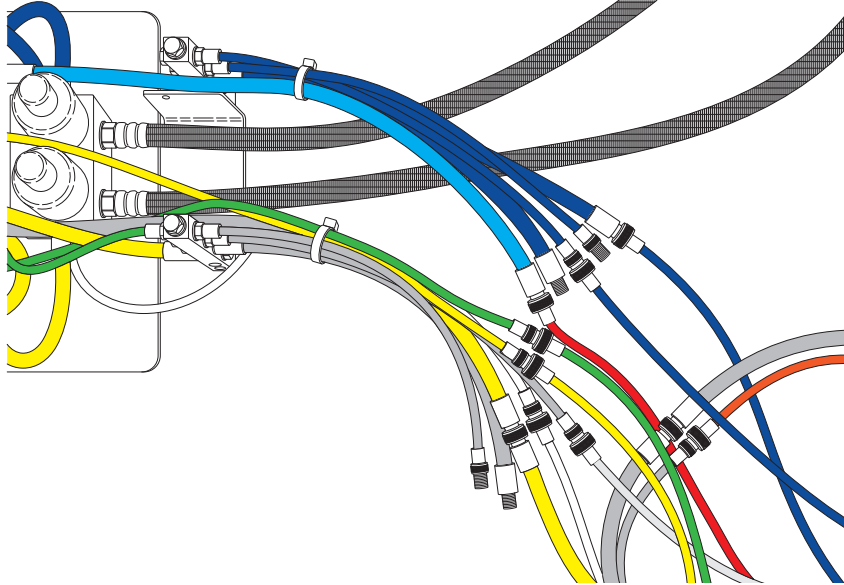


- 13** Connect the foot control (rheostat) to the utility center: Drive Air Input to 1/4 gray utility center, Drive Air Output to 1/4 gray umbilical, Water On/Off signal to 1/8 orange.

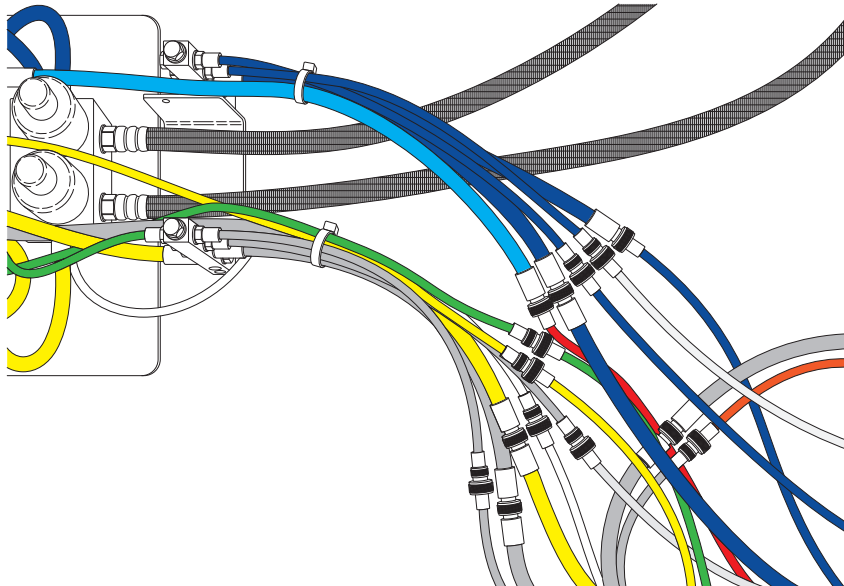


WATER SYSTEM INSTALLATION

- 14** Connect the assistant's syringe to the utility center: Ribbed to 1/8 gray, Non-Ribbed to 1/8 dark blue.



- 15** Connect the remaining unit umbilical tubing to the utility center matching color and size.



- 16** Carefully remove the rubber bands and surgical gloves from the vacuum line and reconnect to the main line.
- 17** Turn on the vacuum pump, open the ball valves to the utility center, install the 2-liter bottle to the water system, turn on the dental unit and the dental chair.
- 18** Verify there are no air, water or vacuum leaks. Verify all dental unit and routing valve functions; verify all touch pad functions.



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www.dcionline.com
800-624-2793



DCI International, LLC
705 S. Springbrook Road Bldg C
Newberg, OR 97132, USA