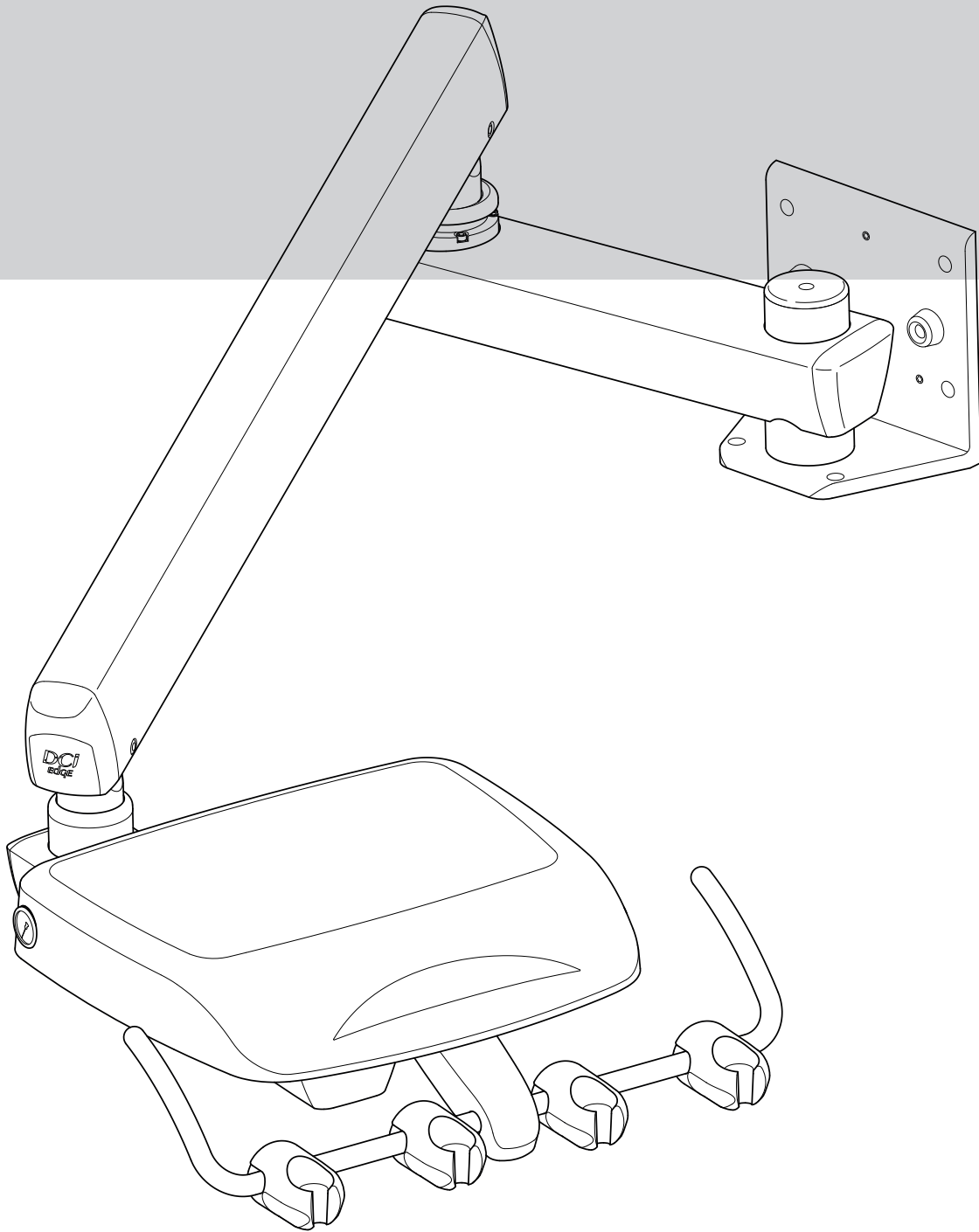


***DCI** edge*



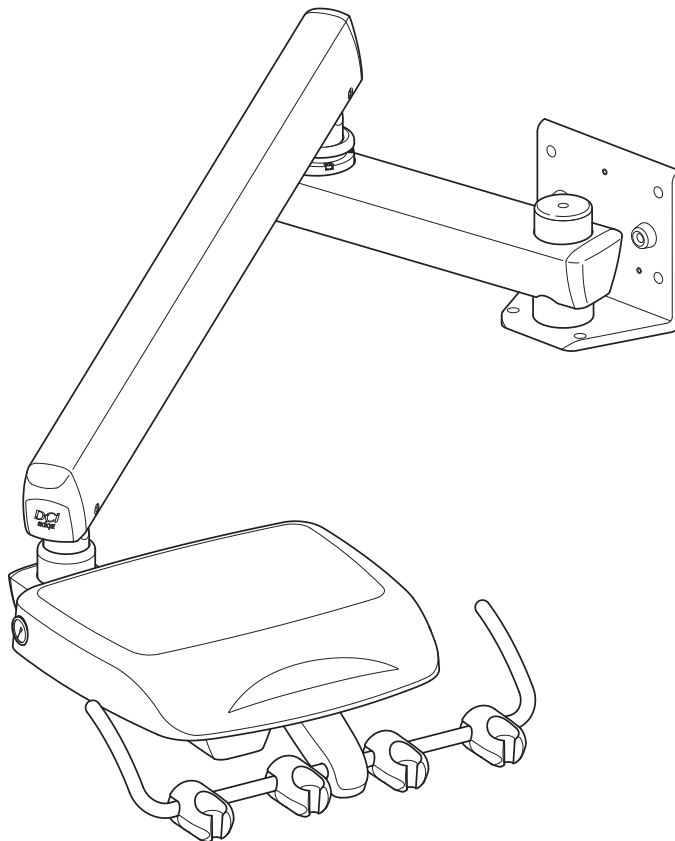
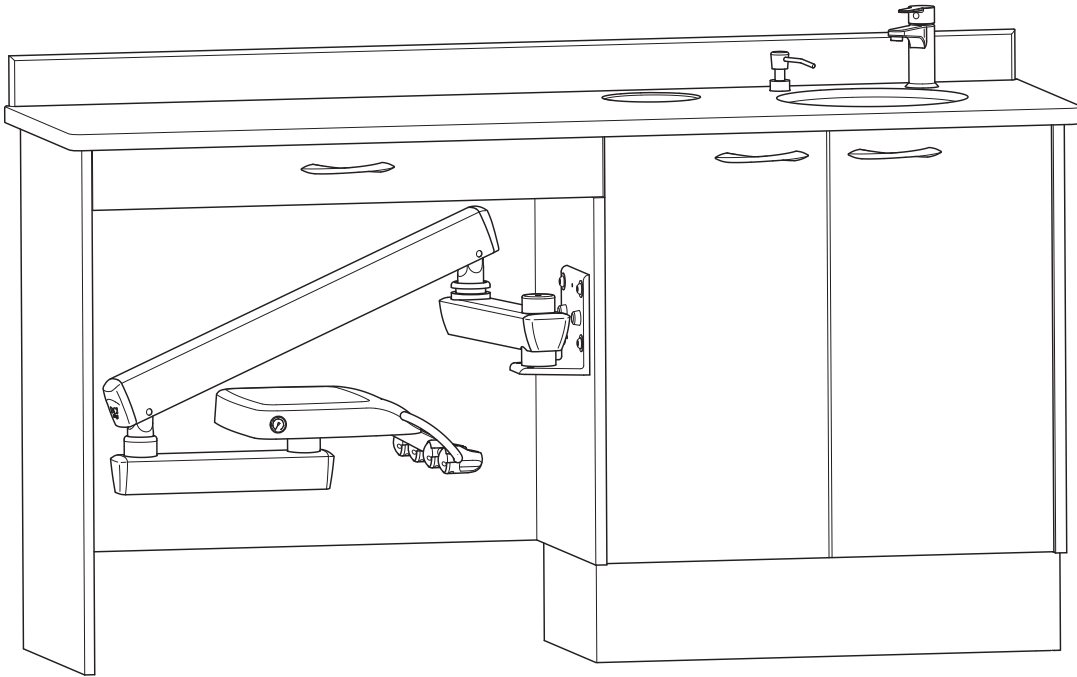
## **SERIES 4 SIDE DELIVERY SYSTEM**

Installation Instructions

## OVERVIEW

### SIDE DELIVERY SYSTEM FOR CABINET OR WALL MOUNT

DW4000, DW4050



# UNIT INSTALLATION NOTES

## BEFORE YOU BEGIN

Review the unit overview in this manual and layout dimensions. Ensure that the planned location will have the necessary space available for installation, including the travel of the chair base and the backrest.

Open all containers and review the contents. It may be helpful to locate all kits containing components and accessories for installation.

Locate all documentation supplied with the equipment. Manuals and installation information may be found in one or more boxes with their respective components. Set aside the documentation for the end user to review.

If a complete equipment ensemble will be installed, complete the chair setup first. Refer to the installation manual supplied with the chair for instructions.

In all configurations, the unit flex arm and the unit control head are shipped as a complete assembly. In some of the following instructions, only the flex arm or the control head may be shown for clarity.

## SYMBOLS USED IN THIS MANUAL

The following symbols may be used throughout this product manual:



**WARNING:** Failure to carefully follow the described procedure may result in damage to the equipment or the operator.

## SPECIAL TEXT FORMATTING

Regulatory information is delivered with DCI Edge dental equipment as mandated by agency requirements and can be found in the accompanying Instructions For Use for this device.

## TABLE OF CONTENTS

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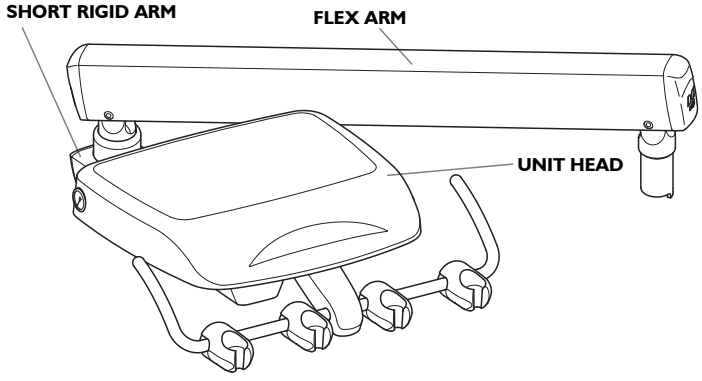
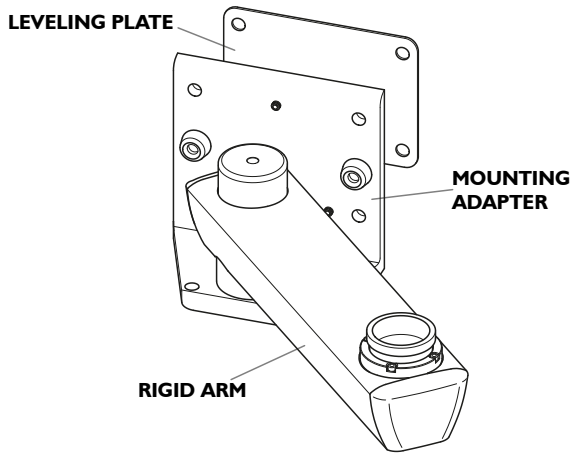
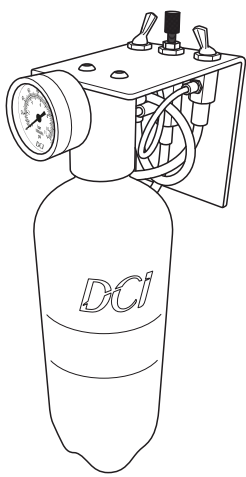
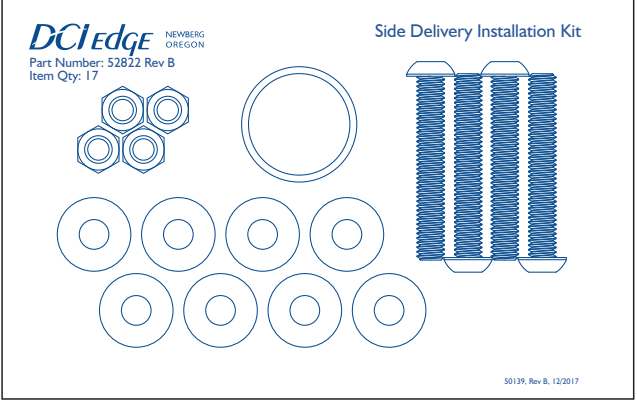
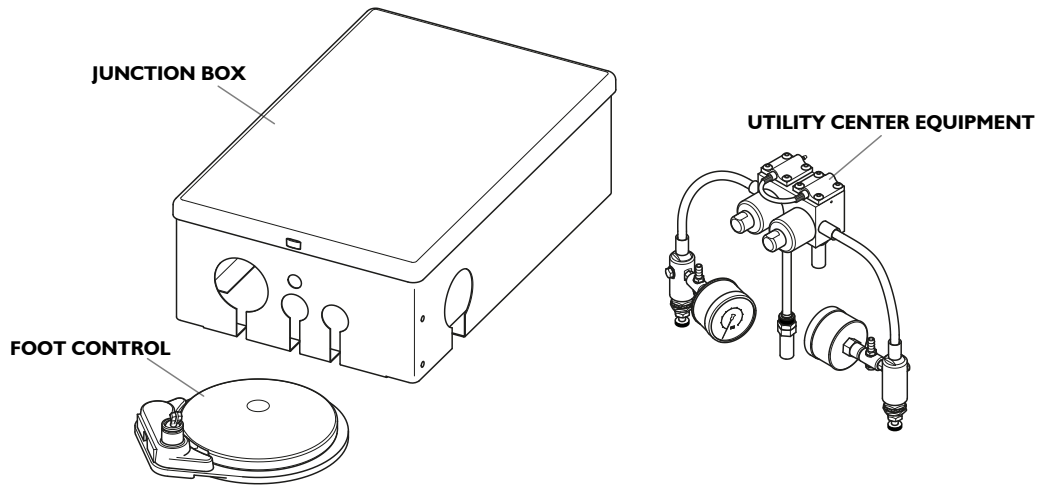
## INSTALLATION KIT HARDWARE

- 4x Hex Nut 3/8-16"
- 4x Button Head Screw 3/8-16" x 2-1/2"
- 4x Flat Washer 3/8
- Washer, Spacer-A

## SUGGESTED TOOLS

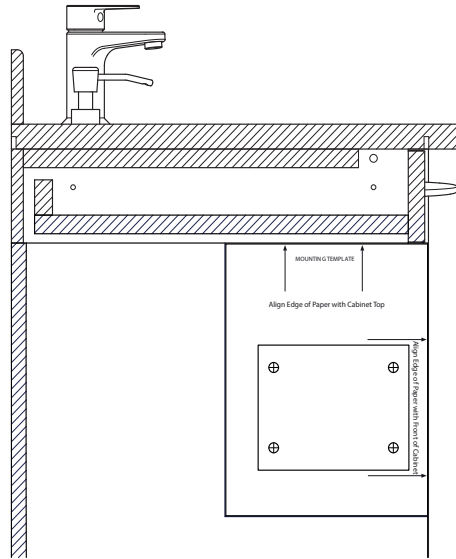
- 9/16" combination wrench or deep wall socket
- SAE 7/32" Hex key
- SAE 1/8" Hex key
- SAE 3/32" Hex key
- Scissors or utility knife
- Wire Strippers (as needed for accessories)
- Flathead screwdriver, small
- Phillips screwdriver
- 3/8" Drill Bit

**WHAT IS INCLUDED**

<p><b>OVER THE PATIENT ASSEMBLY</b></p>  <p>Labels: SHORT RIGID ARM, FLEX ARM, UNIT HEAD</p>	<p><b>MOUNTING ASSEMBLY</b></p>  <p>Labels: LEVELING PLATE, RIGID ARM, MOUNTING ADAPTER</p>
<p><b>WATER SYSTEM</b></p> 	<p><b>INSTALLATION KIT</b></p>  <p>DCI Edge NEWBERG OREGON Part Number: 52822 Rev B Item Qty: 17</p> <p>Side Delivery Installation Kit</p> <p>50139, Rev B, 12/2017</p>
<p><b>UTILITY CENTER</b></p>  <p>Labels: JUNCTION BOX, FOOT CONTROL, UTILITY CENTER EQUIPMENT</p>	

## ADAPTER INSTALLATION ON CABINET

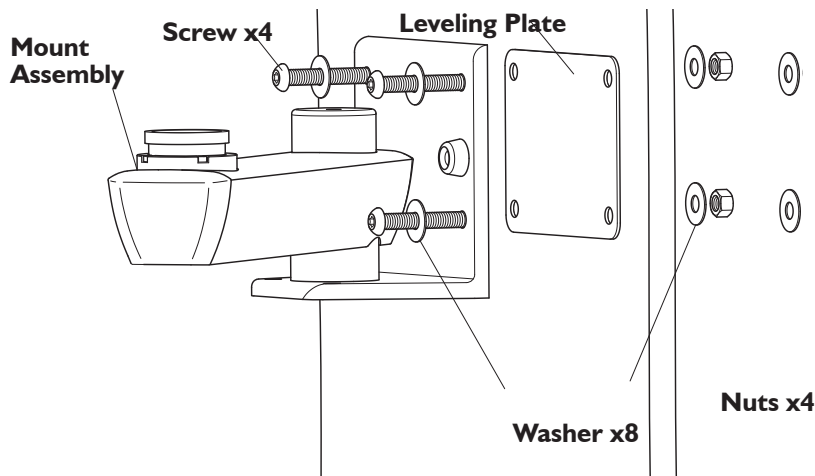
1. Align the **Cabinet Post Mount Adapter Template** (provided on page 10) with the front edge of the cabinet and the underside of the cabinet table top as shown in **Figure 1**. Using a power drill with a 3/8" bit, drill the 4 holes as shown on the template.



**Figure 1**

**NOTE:** Provided template only applies to the DCI Series 4 Side Delivery Cabinets. For installation on other cabinets, ensure there is a MINIMUM of 11.25 inches of clearance between the base of the adapter and the lower cabinet shelf/floor.

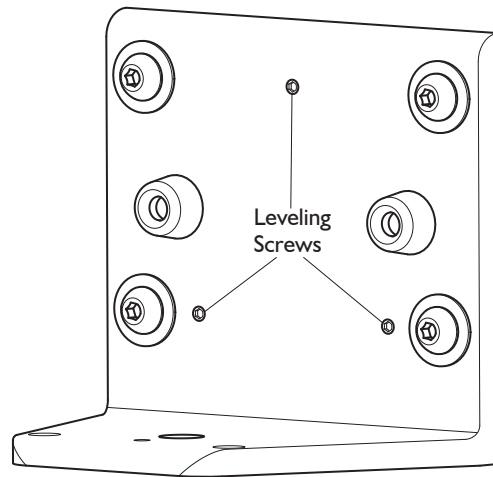
2. With a 7/32" hex key and a 9/16" wrench, install the **Post Wall/Cabinet Mount Adapter** to the cabinet with the supplied mounting hardware as shown in **Figure 2**, leaving the 4 mounting bolts loose for later leveling.



**Figure 2**

## LEVELING POST WALL/CABINET MOUNT ADAPTER

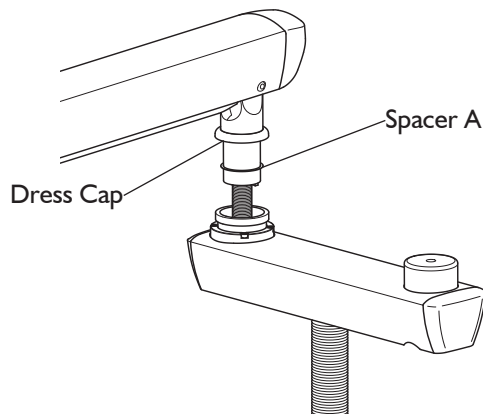
1. With the 4 mounting bolts loose, level the adjust the **Post Wall/Cabinet Mount Adapter** using the three leveling screws (shown in **Figure 4**) with a 1/8" hex key. Then tighten down the mounting bolts using the 7/32" hex key and 9/16" wrench.



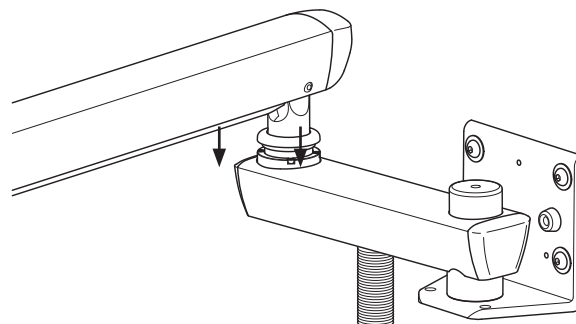
**Figure 4**

## ROUTING UMBILICAL AND INSTALLING FLEX ARM

1. Route the umbilical tubing from the Flex Arm through **Spacer A** (provided in installation kit), the Rigid Arm's dress cap and finally the Rigid Arm, as shown in **Figure 5**. Then, being careful not to pinch the umbilical tubing, drop the Flex Arm's rear knuckle into the Rigid Arm, as shown in **Figure 6**, making sure that it is fully seated.

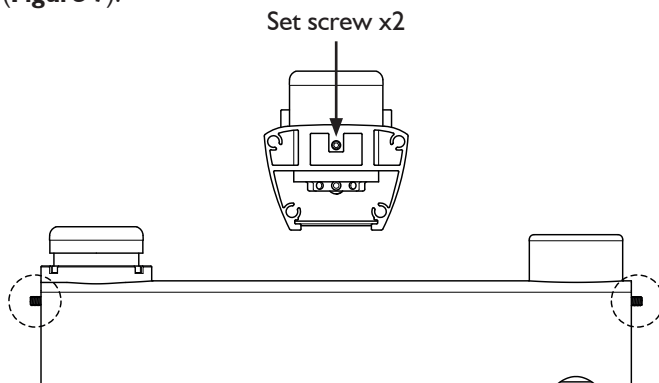


**Figure 5**



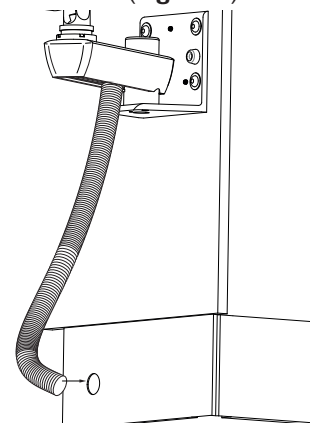
**Figure 6**

2. Remove **End Caps** on Rigid Arm. Set screws at both ends of the Rigid Arm using a 3/32" hex key to adjust rotational tension (**Figure 7**).



**Figure 7**

3. Route the umbilical and foot control tubing through the cabinet for utility center installation (**Figure 8**).



**Figure 8**

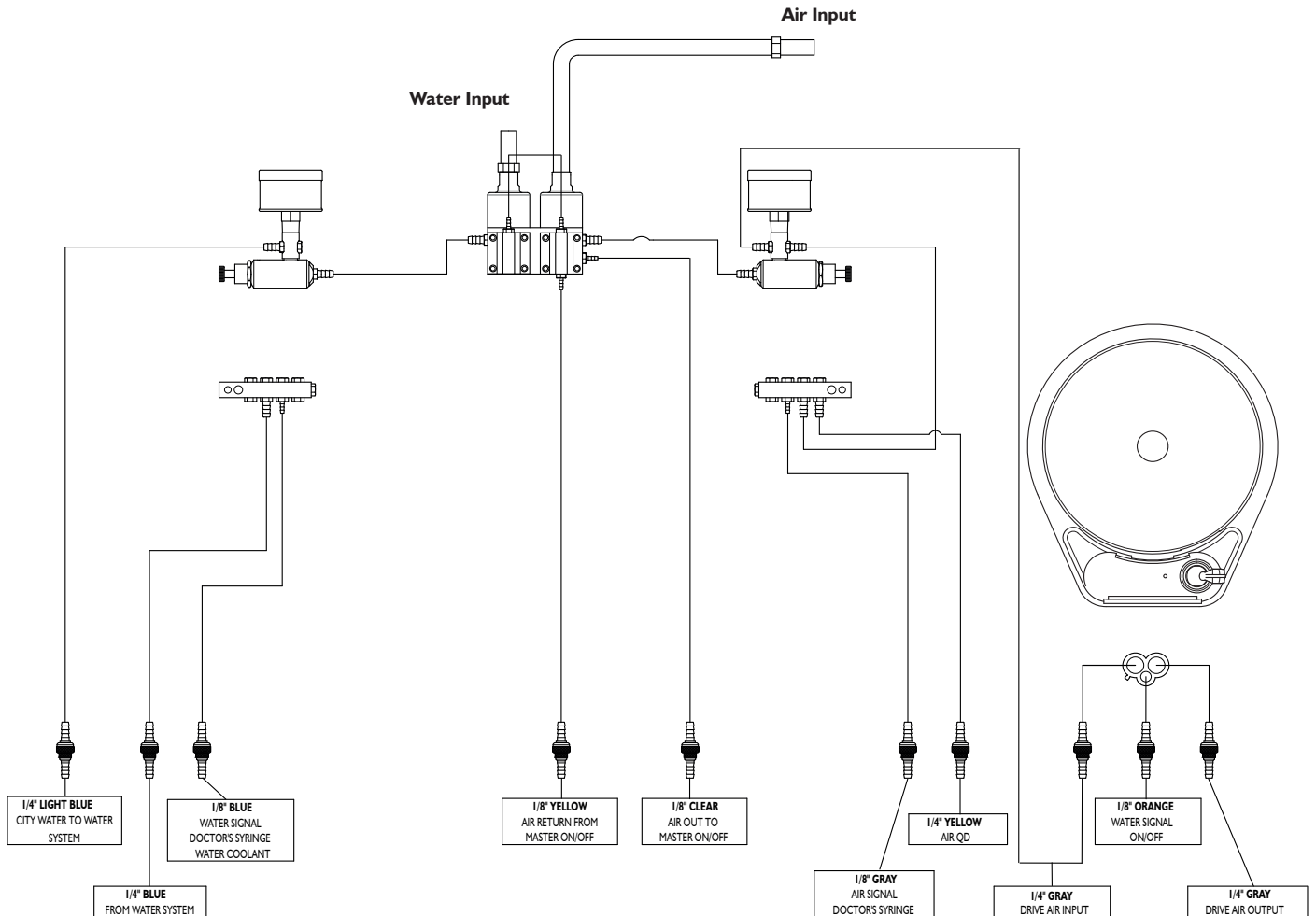
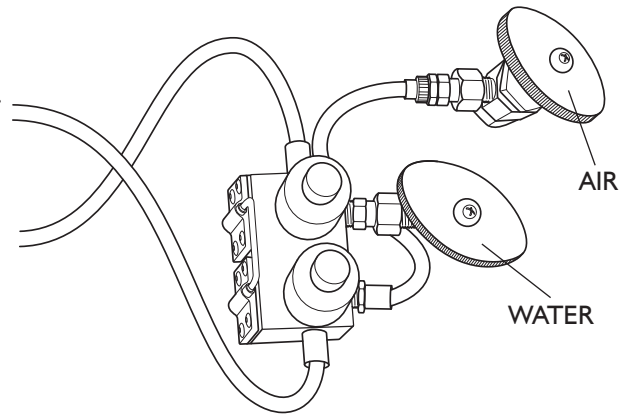
## MAKE CONNECTIONS AND ADJUSTMENTS

### CONNECT UTILITIES

1. Connect the shut-offs to the compressed air and water supply valves.  
NOTE 1: The Yellow side is for air.

NOTE 2: The air and water lines must be flushed prior to connection to the shut-offs

2. Connect the umbilical tubings to the appropriate connection points, including foot control rheostat, with supplied In-Lines and Sleeves.



## SELF-CONTAINED WATER SYSTEM INSTALLATION

1. Remove the Self-Contained Water System from the packaging.
2. Select a location for installation that will be easily accessible for bottle replacement and servicing.
3. Install the water system to the cabinet with a Phillips driver and the mounting hardware provided.

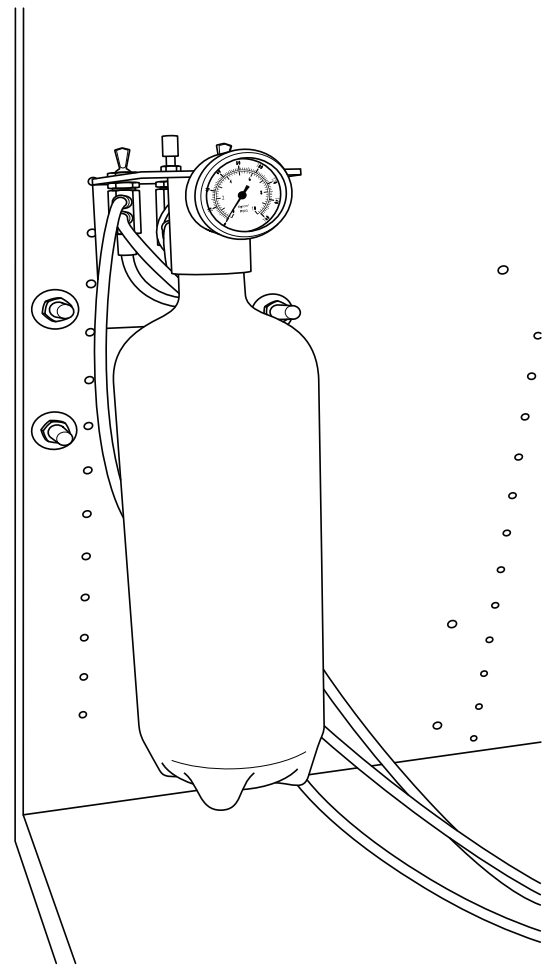
Refer to **Economy Deluxe Water System Installation Instructions (Part #92881-B)** for more in-depth installation instructions and hookup guide.

## SELF-CONTAINED WATER SYSTEM OPERATION

1. Install the bottle with water or solution of your choice.
2. Place the Water Bottle Toggle, located on the top of the bracket, in the “On” position.
3. Check the pressure gauge on the front to ensure that the pressure reads 40psi (factory set at 40psi). If pressure needs to be adjusted, use the regulator located in the top of the bracket. Clockwise to increase pressure, counterclockwise to decrease pressure.



**WARNING:** Bottle pressure is factory pre-set 40 psi. Pressurizing the water bottle over 60 psi may cause the bottle to rupture.



## CHANGING THE BOTTLE

1. Place Water Bottle On/Off Toggle located on the top right rear of bracket in “off” position (to front).
2. Allow bottle to depressurize.
3. Remove empty bottle.
4. Replace with a filled bottle.
5. Place Water Bottle On/Off Toggle located on the top right rear of bracket in “on” position (to rear).



## JUNCTION BOX UTILITY CONNECTIONS - NOTES

- Local regulations may require that licensed plumbers and electricians install utilities.
- Make sure all plumbing conforms to prevailing local codes.
- Use the junction box template to determine floor locations for connections.

### AIR:

- 1/2" pipe N.P.T. protruding 1 inch from floor or wall. Supplied by contractor.
- Manual air shut off valve to be installed by contractor.
- Air pressure 80 - 100 psi.
- Building's air plumbing should be flushed clean by a licensed plumber before making final connections to dental equipment.

### WATER:

- 1/2" pipe N.P.T. protruding 1" from floor or wall. Supplied by contractor.
- Manual water shut off valve to be installed by contractor.
- Water pressure 40 - 80 psi.
- Building's water plumbing should be flushed clean by a licensed plumber before making final connections to dental equipment.

### ELECTRICAL:

- 1/2" conduit and box with quad or equal receptacle supplied by contractor.
- Wire box as per code with the top of the box no higher than 4.5 inches above the finished floor.
- Voltage: 115 Volts AC 3 wire or  
230 Volts AC 3 wire

### CENTRAL VACUUM:

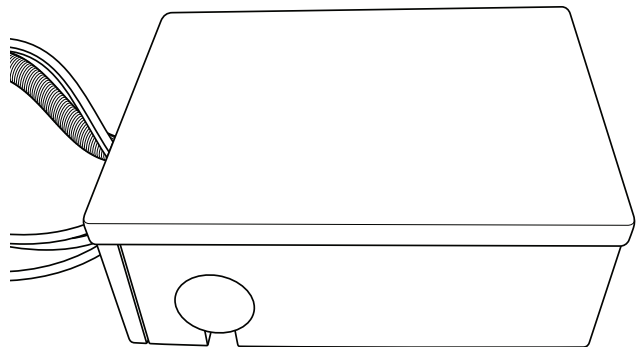
- Plumbing up to the utility center should be specified by central vacuum supplier and terminated in the utility center with 5/8" OD tubing perpendicular to the floor, similar to the drain connection.

### GRAVITY DRAIN:

- 5/8" OD tubing protruding 1 inch from the finished floor.

### FINAL STEPS:

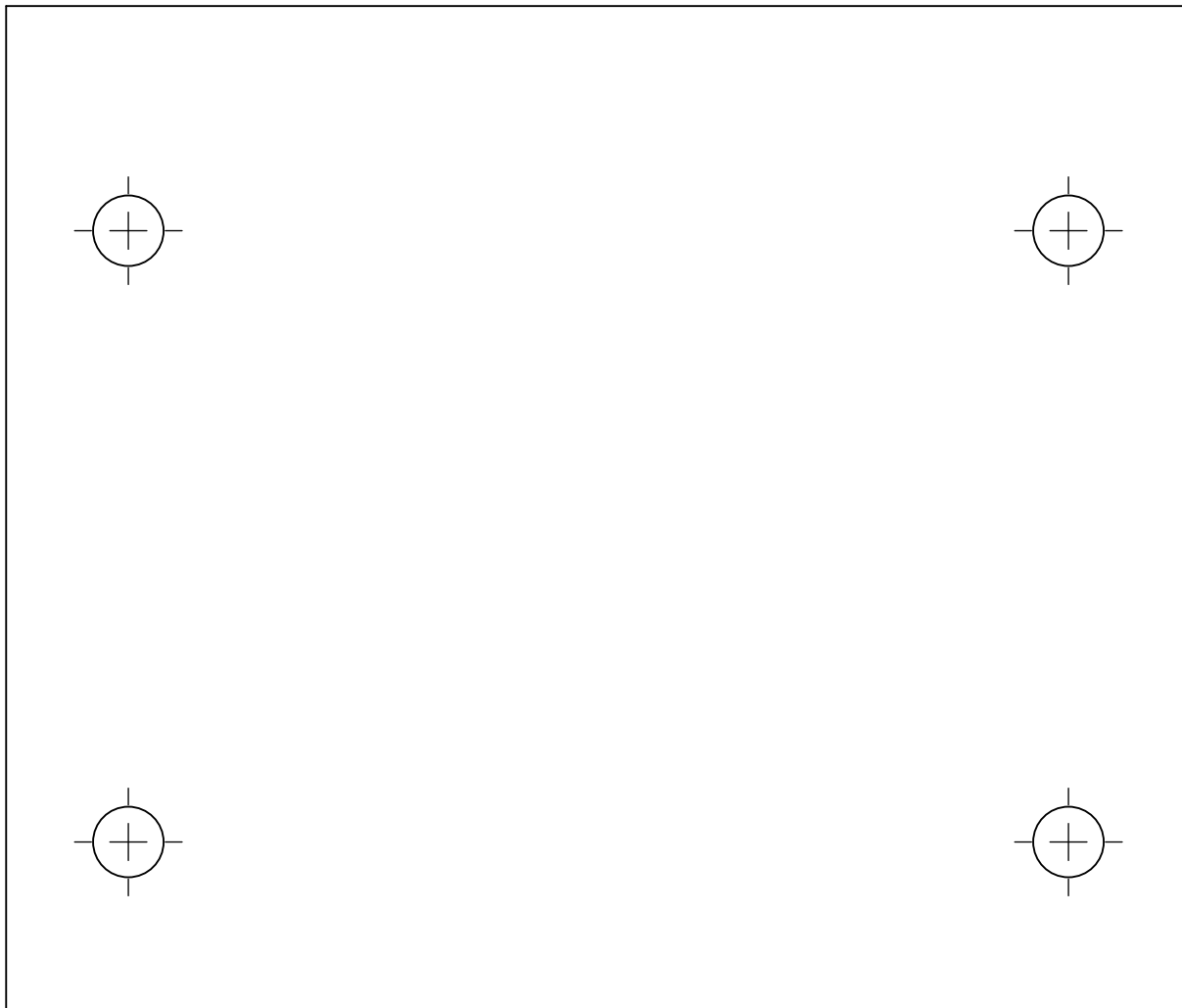
- Once all connections have been made and the water bottle is installed, open the air and water valves then turn on the dental unit via "Master On/Off" on the control head. Check all connection points for leaks.
- Place the junction box cover over the frame so the two part "snap" together. Ensure that there isn't any tubing protruding from the sides of the junction box.



**NOTE:** Place trap in line and use a vented fitting to conform with local codes. Supplied by contractor. Floor mounting only.

## MOUNTING TEMPLATE

↑ Align Edge of Paper with Cabinet Top ↑



↓ Align Edge of Paper with Front of Cabinet ↓

