

# DCI II MANUAL CONTROL UNIT FOR TWO HANDPIECES

## Installation Instructions



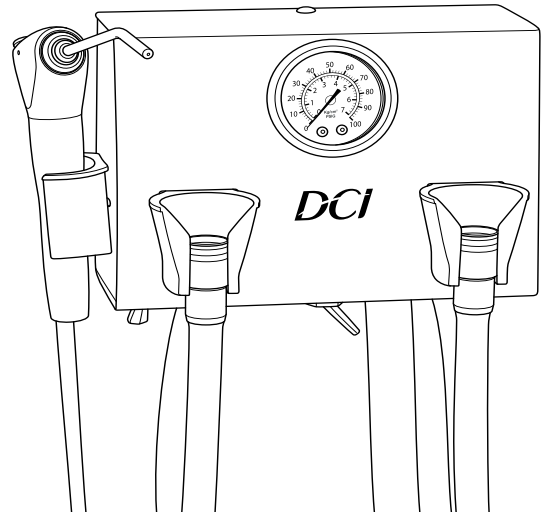
**APPLICABLE TO UNIT PN'S: 4102, 4106**

### THE FOLLOWING ITEMS ARE CONTAINED IN THIS PACKAGE:

- One DCI II control unit with handpiece tubings and umbilical installed.
- One economy foot control.
- One Precision Comfort syringe.
- One syringe repair kit.
- One 3/32" hex key.
- One 5/64" hex key.

### TOOLS NEEDED:

- 1/4" and 1/8" sleeve tool, DCI #8060.
- Screwdriver or other appropriate hand tool for wall fasteners.



### INSTALLATION INSTRUCTIONS

1. Use a 5/64" hex key to remove the front cover of the control unit. There are three screws, one on the top, and one on each side.
2. To wall mount, choose a mounting surface that will support the weight of the unit. There are two pre-drilled mounting holes in the back chassis assembly. Using appropriate fasteners, mount the back chassis assembly utilizing the pre-drilled holes.
3. Route the 1/2" umbilical into the utility center. Make the tubing connections as follows:
  - 1/8" red to regulated water (40 psi).
  - 1/4" gray to regulated air.
4. Open the manual shut-off valves in the utility center. Adjust regulated air to 80 psi and regulated water to 40 psi. When adjusting for a lower pressure, make the adjustment, and then press the syringe button to relieve the pressure to get an accurate pressure reading.
5. All of the controls are located on the underside of the control unit.
  - The handpiece water coolant on/off toggle valve is located in the front left.
  - The handpiece water coolant flow control valve is located in the front right.
  - The handpiece selector toggle is located in the center. The toggle position indicates the active handpiece, left for handpiece #1 and right for handpiece #2.
  - Handpiece pressure adjustment screws are located in the center rear, behind the handpiece selector valve. Using the 3/32" hex key adjust handpiece pressures. The front adjusting screw is for handpiece #2 and the rear adjusting screw is for handpiece #1. Handpiece pressures should be adjusted in accordance with the manufacturer's recommendation.



# DCI II MANUAL CONTROL UNIT FOR TWO HANDPIECES

## Operating Instructions



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### OPERATION AND FEATURES

#### CONTROLS

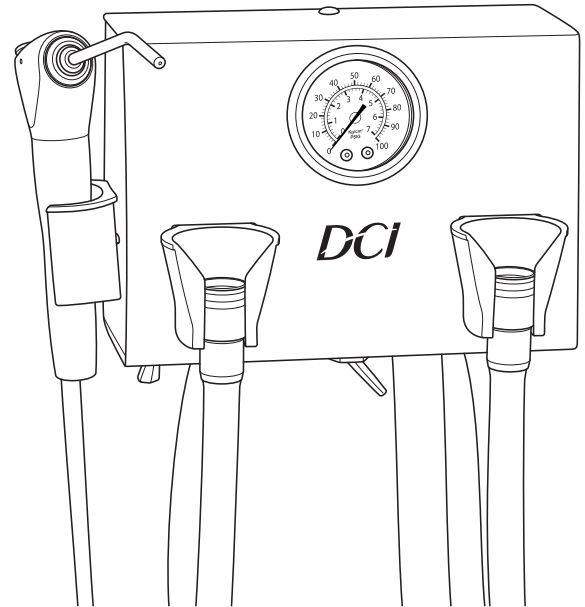
The *handpiece selector toggle* controls which handpiece is active. The toggle position (left or right) indicates the active handpiece. It is located on the underside of the control unit, in the center.

The *water coolant on/off toggle* turns the air signal on or off to the water coolant flow control/relay valve for handpiece #2. It is located on the underside of the control unit, in the left front.

The *water coolant flow control/relay knob* controls water to handpiece #2. It is located on the underside of the control unit, in the right front. If a wet handpiece option is installed for handpiece #1, the flow control knob for it is installed behind the knob for handpiece #2.

The *drive air pressure gauge* indicates the operating pressure of the selected handpiece. It is located on the front top center of the control unit cover.

The *drive air adjustment screws* are located on the underside of the control unit behind the handpiece selector toggle. Handpiece drive air pressures should be adjusted to the handpiece manufacturer's recommendation. See the section on adjustments.



#### Cleaning and Maintenance

*Do not use powdered cleansers, scouring pads, or abrasive scrubbers on any of the finished metal surfaces in this unit, i.e. the syringe or the foot control disc. Sodium Hypochloride will also damage these surfaces.*

#### SYRINGE

The unit comes with a Precision Comfort syringe. The syringe is packaged in a shipping envelope, with operating instructions and a repair kit attached. The syringe goes in the holder on the far-left side of the unit.

#### FOOT CONTROL

The foot control is an economy style. Handpiece speed is controlled with the foot control disc. Varying pressure on the foot control disc controls speed. Air coolant is also provided when you step on the foot control disc.

#### CONTROL HEAD

The control head can be cleaned with most commonly available surface disinfectants. Do not use any Sodium Hypochloride solutions, or any cleansers containing alcohol. These may cause paint and finish discoloration.

#### DENTAL UNIT WATER LINE MAINTENANCE

The Center for Disease Control and the American Dental Association can provide recommendations on when to flush your system, for how long, and what to use.

## ADJUSTMENTS

**NOTE:** All of the following adjustments should be made with a bur in the handpiece. Running a handpiece without a bur can damage the handpiece.

### HANDPIECE DRIVE AIR PRESSURE

Refer to the manufacturer's literature to determine the recommended drive air operating pressure for your handpieces.

You will need a 3/32" hex key to make these adjustments. Install a bur in the handpiece to be tested.

With the handpiece selector toggle select the handpiece you want to adjust. Place the water coolant on/off toggle in the off position. Step on the foot control disc until the handpiece is running at maximum speed.

Handpiece pressure adjustment screws are located in the rear center, behind the handpiece selector valve. Using the 3/32" ball driver adjust handpiece pressures. The front adjusting screw is for handpiece #2 and the rear adjusting screw is for handpiece #1. Turn the adjustment screw counterclockwise until the pressure gauge reads a little more than the recommended operating pressure. Then turn the screw until the pressure gauge indicates the recommended operating pressure. Repeat this step for the remaining handpiece.

### WATER COOLANT FLOW CONTROL

Place the water coolant on/off toggle in the on position. Install a bur in the handpiece to be tested. Press on the foot control disc until the handpiece is running at half operating speed. Adjust the water coolant flow control knob for handpiece #2 until a fine spray is present around the bur. Very little water coolant is required to attain the appropriate spray. Repeat process for handpiece #1 if a wet handpiece option is installed.

