

1. APPLICABLE DELIVERY SYSTEMS

This technical guideline is for delivery units manufactured after 10/23/2006 (SN 592794 and later).

This guideline demonstrates the steps used to replace diaphragm pucks in Control Blocks. The kit contains enough pucks to rebuild up to six positions.

i IMPORTANT!
It is necessary to replace pucks in any add-on blocks in addition to the main control block.

Please verify if there are any add-on control blocks in addition to the main control block and ensure that the gasket diaphragms in those are replaced when performing this maintenance.

2. SERVICE PRODUCTS

- 95-0215, Control Block Diaphragm Pucks (Full Set)
- 95-0215-1, Control Block Diaphragm Pucks (Single Set)

3. PARTS INCLUDED

- For 95-0215
 - Small pucks (12)
 - Large pucks (6)
- OR–**
- For 95-0215-1
 - Small pucks (2)
 - Large pucks (1)

4. TOOLS REQUIRED

- 7/64" Allen wrench

5. GENERAL SAFETY PRECAUTIONS

In addition to observing the normal precautions associated with standard dental practices and procedures, the following additional precautions should be strictly noted and observed during the set-up, operation, and maintenance of this system.



⚠ WARNING

QUALIFIED PERSONNEL ONLY

The product should only be operated by qualified personnel only. The operator bears responsibility for the correct settings and proper use of the system. ASI Dental (ASI) cannot be held liable for any malfunction of this product, or performance failure and/or its designed or desired utility, nor can ASI be held liable for injuries to persons or animals, in any case when the device is misused or not operated, applied or maintained in strict accordance with user/owner instructions set out in the operation manual. In the event of any doubt or question, the user is to contact ASI for clarification or assistance.

Improperly maintained or operated systems or instruments may void the associated warranties.



⚠ 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.

6. GETTING STARTED

- Turn off main power and air supply to unit.
- Run air syringe to relieve compressed air in system.

i *If needed, refer to ASI Technical Guideline, 65-0123, Cover/Cover Plate Access for instructions to open the dental unit. These instructions vary by model.*

6.1. Locate all control blocks within the delivery system

The number of blocks varies depending on the configuration of the delivery system. As it is important to replace all of the diaphragms during this maintenance, use the steps below to identify the Control Block(s) used in delivery system. These may be 1-position, 2-position, 3-position, or 5-position.

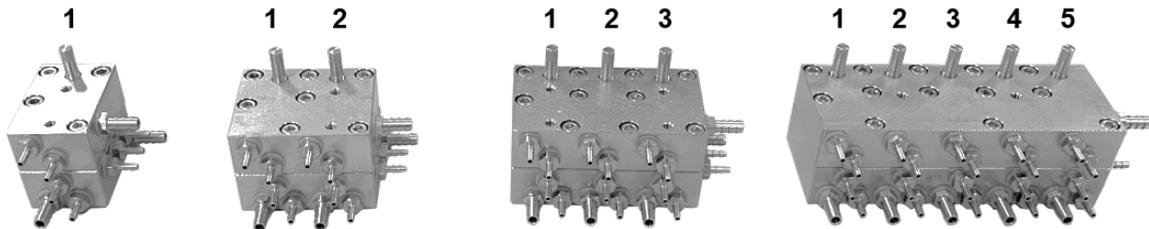


Fig. 1 – Control Blocks

The Control Blocks may be located in plain view or may be located just under the shelf. (Fig. 2)

i *Since control blocks are used for high speed, low speed, rotary, ultrasonic handpieces, the number of these should correspond to the number of positions.*

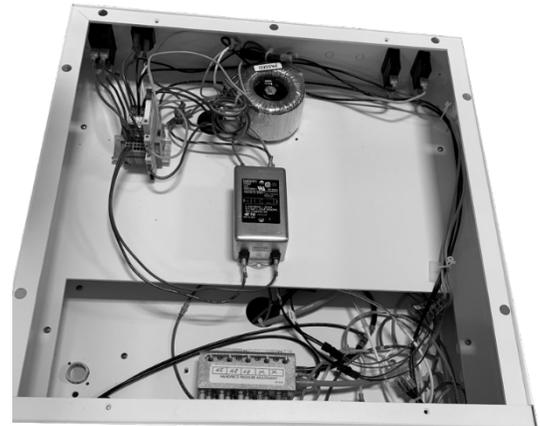


Fig. 2

6.2. Access the control block(s)

Depending on the model of the system, the Control Block may be held in place with a bracket or screwed in from underneath the baseplate. Remove the screws or the hold-down bracket to release the Control Block. The screws may be located underneath the label. The Control Block can be opened up without removal of tubings.

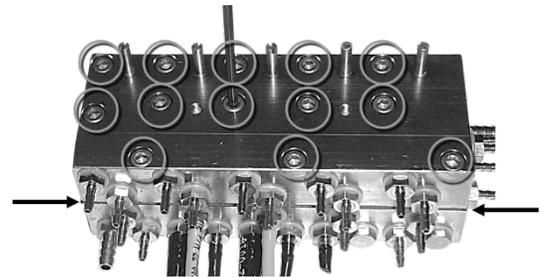
i *Refer to ASI Technical Guideline, 65-0032, Control Blocks, for proper tubing connections, if needed.*

7. CHANGING THE DIAPHRAGMS

The steps below show how to change the diaphragms on a 5-position control block. These steps are the same for the 1-position, 2-position, and 3-position control blocks.

Step 1 - Using a 7/64" Allen wrench, remove all thirteen (13) screws from a 5-position control block, then set aside. (Fig. 3)

Step 2 - Carefully separate the control block in the center, open slowly so as not to lose any pucks. (Fig. 3)



Screw locations circled
arrows point to where block opens

Fig. 3

Step 3 - Remove existing diaphragm or pucks and replace with new. (Fig.4)

Make sure pucks are placed into the counter bores. Ensure the pucks are smooth and flat with no wrinkles.

Hold one side of the block and then carefully place the other side of the block on top and align. Be careful not to dislodge any of pucks. (Fig. 4)

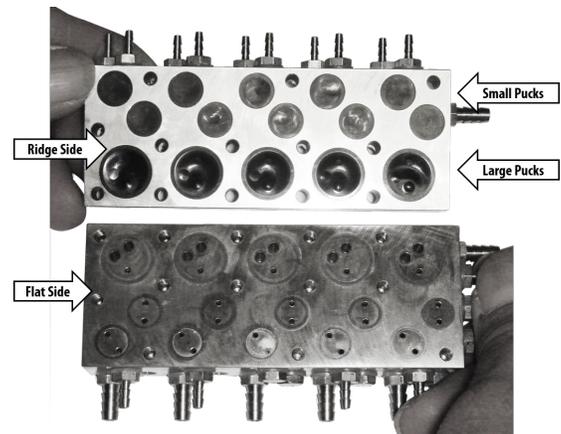


Fig. 4

i *The puck gaskets have two distinct sides. One side is smooth and the other side has a small ridge around the perimeter. When placing the puck gasket, make sure the ridge side face into the counter bore block side (which is the same side that has the air adjustment screws in it). The smooth side will be facing out.*

Step 4 - While carefully holding the block together, insert screws and lightly tighten all at first; then go back and tighten firmly.

Step 5 - Place control block back, ensuring no tubing gets pinched or kinked. Turn the main power on and the air supply to the unit; test all functions.

i **IMPORTANT!** Ensure main air supply to delivery unit is regulated to 80psi. High pressure will damage the diaphragms.