ASI TECHNICAL GUIDELINE FOR 95-0412

PURPOSE

This technical guideline provides instructions for the installation of a single position control block to add an instrument to a ASI dental system.

PARTS INCLUDED

- Single position control block
- 1/8" and 1/4" tee connectors
- Tubing sleeves

TOOLS REQUIRED

- Side cutters-miniature
- #2 Phillips head screwdriver
- Allen wrench, 1/16"
- Sleeve tool

IMPORTANT!
Before commencing on the following instructions, please read and follow all applicable warnings/cautions listed at the end of this technical guideline.

INSTRUCTIONS

1 Turn off the main power and air supply to the unit.

2 Run the air/water syringe to relieve compressed air in the system. In the next steps, the tubing to the input supply side of the control block will be cut to allow the added single block to be spliced in with the tee connections provided.

3 Locate the water relay next to the large 5-position control block. Cut the blue tubing coming from the side port on the water relay going to the 5-position control block. (Fig.1)

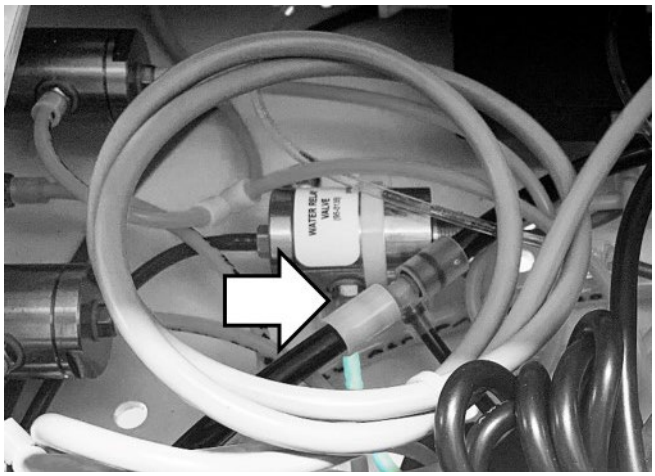


Fig. 1
Water Relay, Blue Tubing from Side Port

4 Cut the black drive air line, yellow handpiece gauge air line, and yellow main air line tubings from the control block to about 2-3 inches in length. (Fig. 2)

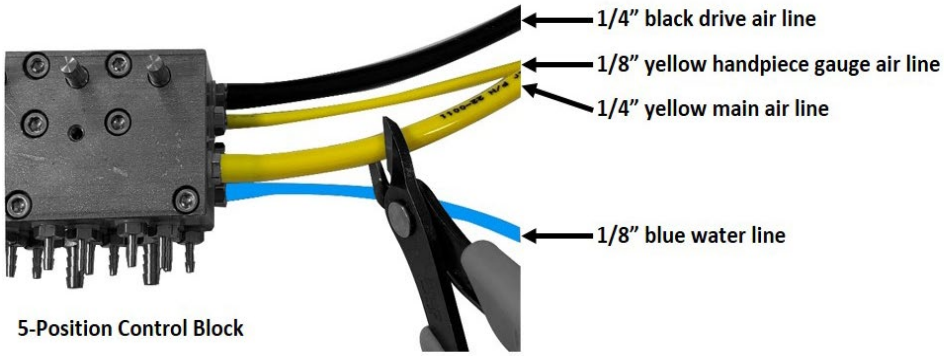


Fig. 2

5 Once all lines have been cut, install the T fittings and sleeves. (Fig.3, Fig.4)

Fig. 3

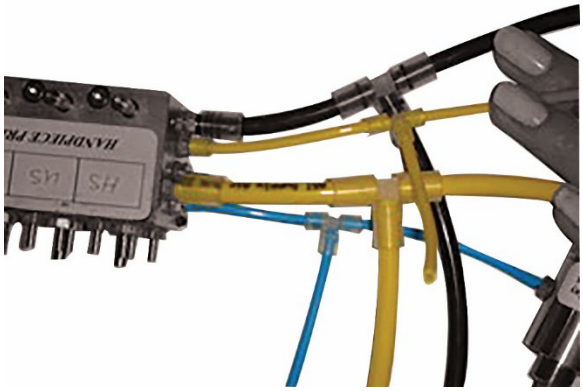


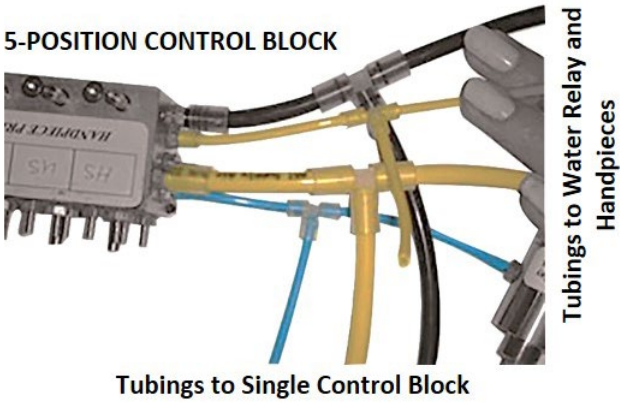
Fig. 4

6 Take the 1/8″ blue water line from the water relay and connect to the water port on the side of the new single control block.

7 Take the 1/4″ yellow main air line and connect to the main air port on the side of the new single control block.

8 Take the 1/4″ black drive air line and connect to the drive air line port on the side of the new single control block.

9 Take the 1/8″ yellow handpiece gauge air line and connect to the gauge port on the side of the new single control block. (Fig.5)



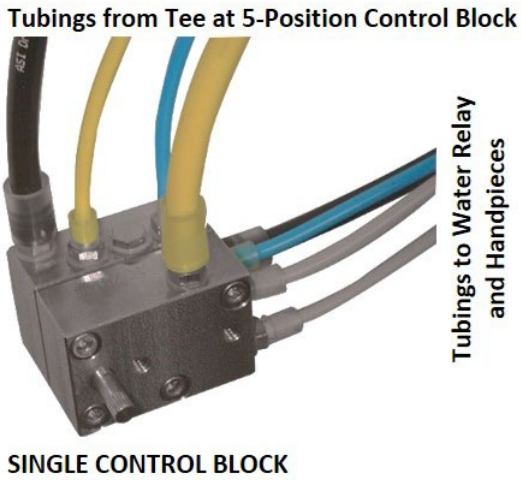


Fig. 5

10 For instruments that require water, a flow control needle valve will need to be installed. There are two ports with blue water lines already connected to the valve. Attach the bottom water line on the flow control valve to the water port on front of the new control block. (Fig. 6)

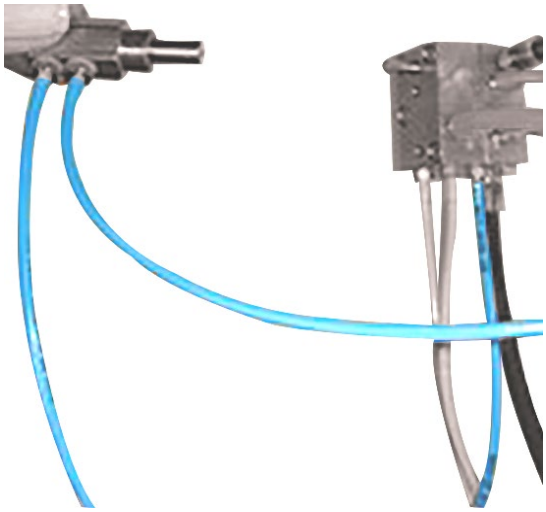


Fig. 6
Connect blue water line from flow

11 Locate the knockouts along the side of the system in the baseplate. Remove one of the knockouts and install the flow control using the provided 9/16" nut to secure. (Fig. 7)

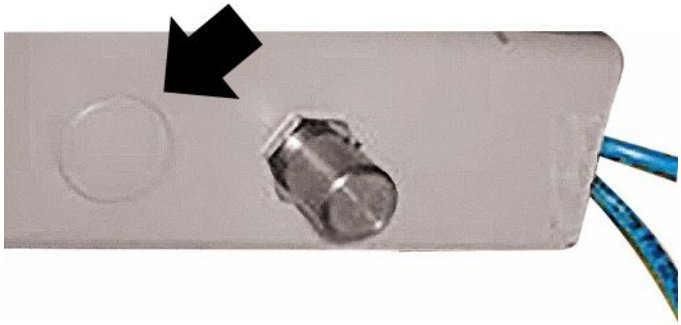


Fig. 7
Insert knob into knockout

12 Tighten the flow control knob by using a 1/16" Allen wrench. (Fig. 8)

Fig. 8
Tighten flow control knob

Instrument Installation Instructions

13 Use the supplied 2-hole beige or white tubing from the autoholder, and run the tubing through the hole in the baseplate. (Fig. 9)

14 Attach to the autoholder's ports on the front of the new single control block.

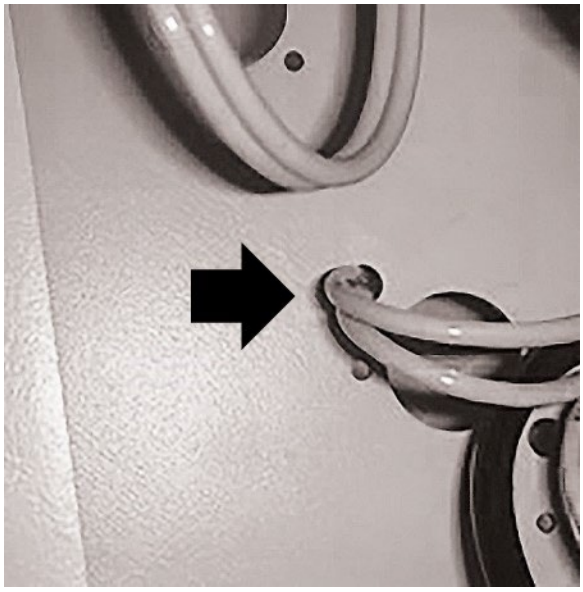


Fig. 9
Run autoholder tubings through hole in baseplate

15 Locate the drive air port in the front of the new single control block and connect to a handpiece tubing connection or, for electric instruments (ultrasonic and rotary units), to the normally opened (N/O) air electric switch that then attaches to the instrument wiring harness. (Fig. 10).

> ***For handpiece tubings or electric high-speed connections, also connect the chip air line to the front of the single control block.***

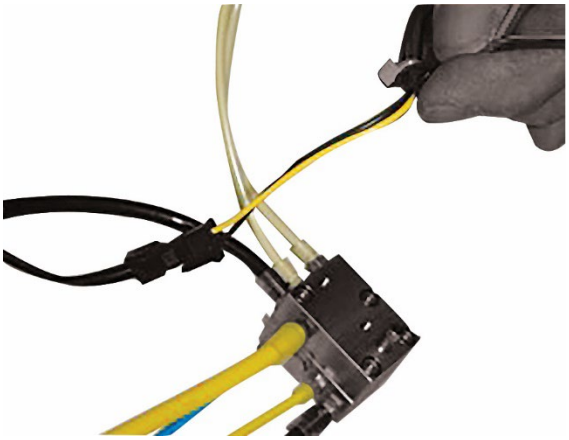


Fig. 10
Connection of a N/O air switch (if required)

16 For instruments with water connections, attach the blue water line from the upper barb/port on the flow control and connect the handpiece tubing.

17 Once the steps above have been completed, find a good location for the control block, remove backing on double-sided tape, then firmly press down to secure control block in place.

WARNINGS/CAUTIONS

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.

⚠ AVERTISSEMENT

PERSONNEL QUALIFIÉ UNIQUEMENT

Le produit ne doit être utilisé que par du personnel qualifié. L'exploitant est responsable des réglages corrects et de l'utilisation correcte du système. ASI Dental (ASI) ne peut être tenu responsable de tout dysfonctionnement de ce produit, ou d'une défaillance de performance et/ou de son utilité conçue ou souhaitée, et ASI ne peut être tenu responsable des blessures aux personnes ou aux animaux, en tout cas lorsque l'appareil est mal utilisé ou pas utilisé, appliqué ou entretenu en stricte conformité avec les instructions de l'utilisateur/propriétaire énoncées dans le manuel d'utilisation. En cas de doute ou de question, l'utilisateur doit contacter ASI pour obtenir des éclaircissements ou de l'aide.

Des systèmes ou instruments mal entretenus ou mal exploités peuvent annuler les garanties associées.

⚠ 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.

⚠ AVERTISSEMENT

AIR COMPRIMÉ

Le système d'air comprimé qui fait fonctionner cet appareil est sous pression. L'air comprimé peut propulser de la poussière ou des particules libres et peut causer des blessures ou des dommages corporels. Éteignez toujours le système et purgez la pression d'air avant de fixer ou de retirer les conduites d'air ou les accessoires ou de procéder à l'entretien de cet appareil. Toutes les conduites d'air doivent être inspectées périodiquement et remplacées si elles sont usées ou endommagées.

Si une alimentation extérieure en air comprimé est utilisée pour alimenter cet appareil, l'alimentation en air doit être régulée à 80 psi ou moins. Une pression d'air excessive peut entraîner la rupture de certains composants.

⚠ 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.

⚠ AVERTISSEMENT

TENSION ELECTRIQUE

Ce système est alimenté par de l'électricité à haute tension. Comme tout autre appareil électrique, s'il n'est pas utilisé correctement, il peut provoquer un choc électrique. Branchez toujours le cordon d'alimentation dans une prise électrique avec une protection par fusible adéquate et une mise à la terre appropriée. En cas de court-circuit, la mise à la terre réduit le risque d'électrocution en fournissant un fil d'échappement pour le courant électrique. Une mauvaise mise à la terre de l'appareil peut entraîner un risque d'électrocution. Débranchez toujours l'appareil avant d'effectuer tout entretien ou réparation sur l'appareil.