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# MOBILE UTILITY CART

## Operation & Service Manual

Document No. 65-OS17, Rev-A, October 8, 2024

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### Mobile Utility Cart

Models: 90-9001, 90-9002, 90-9003

This guide provides important steps for setup, use, and maintenance of the ASI cleaning system. It includes important details which must be followed to ensure safety and proper use.

This system is designed to be used in tandem with ASI Dental's line of self-contained dental carts. For information on servicing and operation of those carts please refer to the cart's specific IFU manual.



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- Description of Danger Levels
- General Safety Precautions
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These symbols are used in this manual.



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**SYMBOLES**

Ces symboles sont utilisés dans ce manuel.

Informations importantes pour les utilisateurs et les techniciens

Symbole d'avertissement

**DESCRIPTION OF DANGER LEVELS**

**DESCRIPTION DES NIVEAUX DE DANGER**



**⚠ DANGER**

**DANGER** indicates a maximum hazardous situation that can directly cause serious injury or death.

**⚠ DANGER**

**DANGER** indique une situation dangereuse maximale qui peut directement causer des blessures graves à la mort.



**⚠ WARNING**

**WARNING** indicates a hazardous situation that can lead to serious injury or death.

**⚠ AVERTISSEMENT**

**L'AVERTISSEMENT** indique une situation dangereuse qui peut entraîner des blessures graves.



**⚠ CAUTION**

**CAUTION** indicates a hazardous situation that can lead to property damage or minor to moderate injury.

**⚠ MISE EN GARDE**

**LA PRUDENCE** indique une situation dangereuse qui peut entraîner des dommages matériels ou des blessures mineures à modérées.

**GENERAL SAFETY PRECAUTIONS**

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

**PRÉCAUTIONS GÉNÉRALES DE SÉCURITÉ**

En plus d'observer les précautions normales associées aux pratiques et procédures dentaires standard, les précautions suivantes doivent être strictement notées et observées pendant la configuration, le fonctionnement et l'entretien de ce système.



**⚠ WARNING**

**QUALIFIED PERSONNEL ONLY**

The product should only be operated by or under the supervision of a licensed dentist or a hygienist if permitted by applicable law. The operator bears responsibility for the correct settings and proper use of the system. ASI Medical, Inc. (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.

**⚠ 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**

**PRESENCE OF HEAVY METALS/AMALGAM**

This system may be equipped with optional suction instruments. As part of dental procedures, particles of amalgam may be suctioned into the dental suction handpieces and collected within the system and trap filter. Recycle amalgam in accordance with local guidelines.

**⚠ AVERTISSEMENT**

**PRÉSENCE DE MÉTAUX LOURDS/AMALGAME**

Ce système peut être équipé d'instruments d'aspiration en option. Dans le cadre de procédures dentaires, des particules d'amalgame peuvent être aspirées dans les pièces à main d'aspiration dentaire et collectées dans le système et le filtre piège.



**⚠ WARNING**

**CONTAINS HAZARDOUS SUBSTANCES**

This system contains substances that may be carcinogenic, mutagenic, reprotoxic (CMR), or substances with endocrine disrupting properties and may pose additional risks to those who are pregnant or nursing.

**⚠ AVERTISSEMENT**

**CONTIENT DES SUBSTANCES DANGEREUSES**

Ce système contient des substances qui peuvent être cancérogènes, mutagènes, toxiques pour la reproduction (CMR) ou des substances ayant des propriétés perturbant le système endocrinien et peuvent présenter des risques supplémentaires pour les femmes enceintes ou allaitantes



**⚠ WARNING**

**INFECTIOUS MATERIALS**

Infectious disease workplace safety protocols to safeguard against cross contamination of infectious disease should always be observed. When maintaining the suction system or emptying the contents of the suction waste container, safe precautions and practices including the wearing of face mask, eye protection and gloves are to be followed.

**⚠ AVERTISSEMENT**

**MATIERES INFECTIEUSES**

Les protocoles de sécurité sur le lieu de travail contre les maladies infectieuses pour se prémunir contre la contamination croisée des maladies infectieuses doivent toujours être observés. Lors de l'entretien du système d'aspiration ou de la vidange du contenu du conteneur de déchets d'aspiration, des précautions et des pratiques de sécurité, notamment le port d'un masque facial, d'une protection oculaire et de gants, doivent être suivies.



**⚠ CAUTION**

**CAUSTIC OR CORROSIVE CHEMICALS**

The irrigation system may contain chemicals that are caustic or corrosive. Always verify with the operator of the system to determine which chemicals they are using within the system. Always follow workplace safety protocols when doing maintenance or service of the system including the wearing of face mask, eye protection and gloves for proper protection of exposed skin, breathing and eyes.

**⚠ MISE EN GARDE**

**PRODUITS CHIMIQUES CAUSTIQUES OU CORROSIFS**

Le système d'irrigation peut contenir des produits chimiques caustiques ou corrosifs. Vérifiez toujours auprès de l'opérateur du système pour déterminer quels produits chimiques ils utilisent dans le système. Suivez toujours les protocoles de sécurité sur le lieu de travail lors de la maintenance ou de l'entretien du système, y compris le port d'un masque facial, d'une protection oculaire et de gants pour une protection adéquate de la peau, de la respiration et des yeux exposés.



**⚠ WARNING**

**ELECTRICAL HAZARD POSSIBLE!**

Do not connect any additional multiple socket outlets or extension cables to the product.

**⚠ AVERTISSEMENT**

**DANGER ÉLECTRIQUE POSSIBLE!**

Ne connectez pas de prises de courant ou de câbles d'extension supplémentaires au produit.



**⚠ WARNING**

**ELECTROMAGNETIC COMPATIBILITY (EMC)**

Changes or modifications to this product not expressly approved by the manufacturer may result in increased emissions or decreased immunity performance of the product and could cause EMC issues with this or other equipment. This product is designed and tested to comply with applicable regulation regarding EMC and shall be installed and put into service according to the EMC information stated below:

**⚠ WARNING**

Use of portable phones or other portable or mobile radio frequency (RF) emitting equipment near the product may cause unexpected or adverse operation.

**⚠ WARNING**

The use of accessories, transducers, and cables other than those supplied may result in increased emissions or decreased immunity performance of the product. The product shall not be used adjacent to, or stacked with, other equipment. If adjacent or stacked use is necessary, the user shall be responsible to test to verify normal operation in the configuration in which it is being used.

**⚠ AVERTISSEMENT**

**COMPATIBILITÉ ÉLECTROMAGNÉTIQUE (CEM)**

Les changements ou modifications apportés à ce produit non expressément approuvés par le fabricant peuvent entraîner une augmentation des émissions ou une diminution des performances d'immunité du produit et peuvent entraîner des problèmes de compatibilité électromagnétique avec cet équipement ou d'autres. Ce produit est conçu et testé pour se conformer à la réglementation applicable en matière de CEM et doit être installé et mis en service conformément aux informations CEM indiquées ci-dessous :

**⚠ AVERTISSEMENT**

L'utilisation de téléphones portables ou d'autres équipements portables ou mobiles émettant des radiofréquences (RF) à proximité du produit peut provoquer un fonctionnement inattendu ou indésirable.

**⚠ AVERTISSEMENT**

L'utilisation d'accessoires, de transducteurs et de câbles autres que ceux fournis peut entraîner une augmentation des émissions ou une diminution des performances d'immunité du produit. Le produit ne doit pas être utilisé à côté ou empilé avec d'autres équipements. Si une utilisation adjacente ou empilée est nécessaire, l'utilisateur sera responsable de tester pour vérifier le fonctionnement normal dans la configuration dans laquelle il est utilisé.



**⚠ 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.



**⚠ 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.



**CAUTION**

**DISPOSAL**

In compliance with Directives 2012/19/EU and 2006/66/EC, components with batteries or containing hazardous substances must be disposed of in accordance with waste legislation and instructions issued by the local environmental authorities. Any components which can be recycled, such as sheet metal, should always be taken to the appropriate processing centers. The following components may potentially contain batteries or hazardous substances:

- Instrument Control Boards
- Amalgam separator(s)
- Sediment tank(s)
- Suction System Components

**MISE EN GARDE**

**DISPOSITION**

Conformément aux directives 2012/19/EU et 2006/66/EC, les composants contenant des batteries ou contenant des substances dangereuses doivent être éliminés conformément à la réglementation sur les déchets et les instructions émises par les autorités environnementales locales. Tous les composants qui peuvent être recyclés, tels que la tôle, doivent toujours être apportés aux centres de traitement appropriés. Les composants suivants peuvent potentiellement contenir des batteries ou des substances dangereuses:

- Tableaux de contrôle des instruments
- Séparateur d'amalgames
- Réservoir à sédiments
- Composants du système d'aspiration



**CAUTION**

**DAMAGE FROM UNSUITABLE ACCESSORIES**

Responsibility for the use of accessories, parts or assemblies from other manufacturers rest solely with the user.

**MISE EN GARDE**

**DOMMAGES PROVENANT D'ACCESSOIRES INADAPTÉS**

La responsabilité de l'utilisation d'accessoires, de pièces ou d'ensembles d'autres fabricants incombe uniquement à l'utilisateur.



**CAUTION**

**CORRECT OPERATING VOLTAGE**

Check the correct operating voltage on the rating plate and ensure that the product is correctly configured for the voltage before plugging in and energizing.

**MISE EN GARDE**

**TENSION DE FONCTIONNEMENT CORRECTE**

Vérifiez la tension de fonctionnement correcte sur la plaque signalétique et assurez-vous que le produit est correctement configuré pour la tension avant de le brancher et de le mettre sous tension.



**CAUTION**

**SUCTION CANISTER PURGE**

LED turns on when suction canister overfills.

**MISE EN GARDE**

**PURGE DE LA CARTOUCHE D'ASPIRATION**

La LED s'allume lorsque la cartouche d'aspiration déborde.



**CAUTION**

**POWER SUPPLY CORD**

The power supply cord is not replaceable by service personnel.

**MISE EN GARDE**












**CORDON D'ALIMENTATION**

Le cordon d'alimentation n'est pas remplaçable par le personnel de service.

**IDENTIFICATION OF SYMBOLS**

The table below defines symbols that may be included on/in this delivery system.

Symbol	Description
	Conforms to UL STD 60601-1; Certified to CSA STD C22.2 NO. 601.1
	Recognized by Underwriters Laboratories Inc. with respect to electric shock, fire, and mechanical hazards only in accordance with UL 61010-1 (2601-1) and under mutual recognition agreement with CAN/CSA C22.2, No.601-1.
	Protective earth (ground)
	Functional earth (ground)

Symbol	Description
	Indicates that caution is necessary when operating the device or control close to where the symbol is placed, or that the current situation needs operator awareness or operator action in order to avoid undesirable consequences. Attention, consult accompanying documents. No user serviceable parts. Attention, line voltage. Only licensed electrician should remove cover.
	Type B applied part
	Type BF applied part
	Class II Equipment
	Caution HOT: Metal surfaces can be hot during and following the dry cycle.
	Marking on the outside of Equipment or Equipment parts that include RF transmitters or that apply RF electromagnetic energy for diagnosis or treatment.
	Manufacture
	Consult user information
	Model number
	Indicates the manufacture's serial number
	Indicates the date when the medical device was manufactured.

## **INDICATIONS FOR USE STATEMENT – MOBILE CLEANING STATION**

The ASI Mobile Utility Cart is a companion product to ASI Dental's line of umbilical dental carts. It is designed to provide power, compressed air, and/or suction to umbilical dental system. In place of a central utility system.

## **PRODUCT DESCRIPTION**

The ASI Mobile Utility Cart contains a built-in air compressor and/or vacuum system. It is designed to provide air, vacuum, and electricity to operate an ASI umbilical dental system. The product is constructed of aluminum chassis with powder-coat paint finish, and high-grade dual-wheel type casters. Internal Oil-less Air Compressor and Vacuum with ASI Sound Reduction Technology, Bacteriostatic Exhaust Filter, and Electric Waste Purge System. The expected service life of the system is ten years excluding soft goods and disposable items.

## **AIR COMPRESSOR**

The ASI Compressed Air System is designed to deliver oil-free air to run handpieces. This system is ideal for mobile dental systems due to the small footprint, oil-less design, quiet sound level, and airflow output that it provides.

A motor drives a two-stage piston design. Air is drawn into the first piston chamber where it is initially compressed and then sent into the second piston chamber where it is compressed further. A pressure switch controls the operation of the compressor that turns it on and off.

Due to the oil-less design, the compressor requires no lubrication and no maintenance.

The pistons are dynamically balanced to high tolerances that enable a smooth running and quiet design.

The portable dental air compressor is controlled by an air pressure switch that senses when the pressure drops in the air tank to activate the motor and then once air consumption ceases, it will sense when the air pressure has reached a pre-set point and then will turn off the motor. This keeps the motor from running when the system is not in use.

The air compressor is mounted on special spring type isolators that allow it to float and thereby reduce vibration to the chassis. A proprietary multi-stage intake muffler design attenuates and muffles sound waves to dampen sound.

## **AIR TANKS CLEAN REGULATED AIR**

This system uses a dual air tank design. The tanks are constructed of non-corroding aluminum that are lightweight. Compressed air is sent to an in-line air regulator and moisture separator. The regulator is connected to a manual purge valve that can be opened to allow moisture condensation to escape.

## **VACUUM PUMP**

The ASI dental suction system is designed to provide suction to perform dental procedures and features a high-volume suction and saliva ejector attached to a solid collector filter.

A motor drives a two-headed oil-less piston pump.



The pistons require no lubrication due to their oil-less design. The pistons are dynamically balanced to high tolerances that enable a smooth running and quiet design.

### **SEDIMENT SEPARATOR AND HOLDING TANK**

Equally important to the suction design of mobile dental equipment is how the liquid contents are handled. The suction system has a holding tank to provide capacity for a normal day of procedures and is able to handle caustic chemicals and can be purged and cleaned at the end of the day.

The system separates the air stream from the liquid and provides a sediment bowl that can be removed.

Built into the top of the holding tank is a float switch to prevent over filling of the canister. Once the liquid rises to a pre-set level, the float switch will cut off the power to the vacuum pump.

### **PURGE SYSTEM**

The system uses an electric purge pump that can be turned on that will siphon the liquid from the holding tank and empty out through the purge hose at the back of the system. At the end of the day's procedures, the purge hose can be placed into a sink drain or quick connected to a sink's P-trap and then the pump turned on to purge the tank.

## LIMITED WARRANTY

ASI Medical, Inc., dba ASI Dental Specialties (ASI) warrants this product against defects in material and/or workmanship for one year for parts, 90 days for labor, from the time of delivery. During this coverage period, ASI's sole obligation will be to repair, adjust, or replace defective parts only. ASI is not responsible for any time lost, inconvenience caused, or for any other incidental or consequential damages. Any unauthorized aftermarket modification of an ASI device may result in unforeseen hazardous situations. Only ASI-certified replacement components should be used for repair or device modification. The warranty shall be voided by alteration, tampering, improper installation or maintenance, accidental damage, or misuse of the product.

This warranty is made in lieu of all other warranties, expressed or implied, including any implied warranty of merchantability of fitness for a particular purpose. No employee, agent, franchise, dealer, or other person is authorized to give any warranties of any nature on behalf of ASI, except as provided herein.

ASI shall have no liability or responsibility to the customer, any other person, or entity with respect to any liability, loss, or damage caused directly or indirectly by the product. Notwithstanding the above limitations and warranties, ASI's liability hereunder for damages incurred by the customer or others shall not exceed the amount paid by the customer for the particular product involved.

ASI shall not be responsible for any warranty work done without first obtaining consent from ASI.

### Specific Warranty Modifications

The following items and/or occurrences are not covered under the warranty:

- Accidental Damage & Theft, including but not limited to the following:
  - Damage from accident or misuse including cuts, tears, and crushes to tubing, cracks in suction solids trap filters, housings, broken casters, etc.
  - Damage from use including scratches, dings, dents, and deterioration to paint and overlays
  - Theft or vandalism
- Damage from Neglect or Improper Maintenance, including but not limited to the following:
  - Obstructions in tubing lines caused by foreign particles or chemical agents dispensed through the lines
  - Obstructions in tubing lines caused by improper maintenance of trap filters
- Disposable Type Items including but not limited to the following:
  - Light bulbs, all filters, gaskets, O-rings, and certain types of tubing.

### Replacement Parts Limited Warranty

Replacement parts (either purchased or replaced at no charge warranty) do not affect or extend the original warranty term provided. New replacement parts are provided with a 90-day warranty term from the time of shipment and do not include any other costs such as labor for installation, removal, or shipping. These separate costs are the responsibility of the customer. Soft goods such as filters, tubing, gaskets, O-rings, bulbs, etc. are not covered under warranty due to damage that can occur by handling or improper installation. All other terms, modifications, and exclusions provided in the system warranty apply to replacement parts.

**UNPACKING**

Carefully remove all packaging material from around and underneath the unit including the accessory box, which may contain additional items required for installation. Inspect the unit for any obvious signs of shipping damage. If any damage is discovered, immediately contact our Customer Service Department at *service@asisupport.com*.

**INSTALLATION**

The system is equipped with a high-grade rated SJT power cord and hospital-grade plug. By design, the plug is to be placed into a standard 115-Volt 60-Hz outlet.

**Parts Included**

- Tube sleeve
- Hose clamp

**Tools Required**

- 1/4" nut driver or wrench
- Sleeve tool
- #2 Phillips head screwdriver
- Flat head screwdriver

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

**Installation Instructions**

- 1 Ensure the mobile utility cart is turned off and unplugged prior to starting the umbilical connection.
- 2 Using a flat head screwdriver open the back panel of the utility cart.
- 3 (OPTIONAL) Using a Phillips head screwdriver remove the top cover of the mobile utility cart. This will help to provide better access to the connection points.

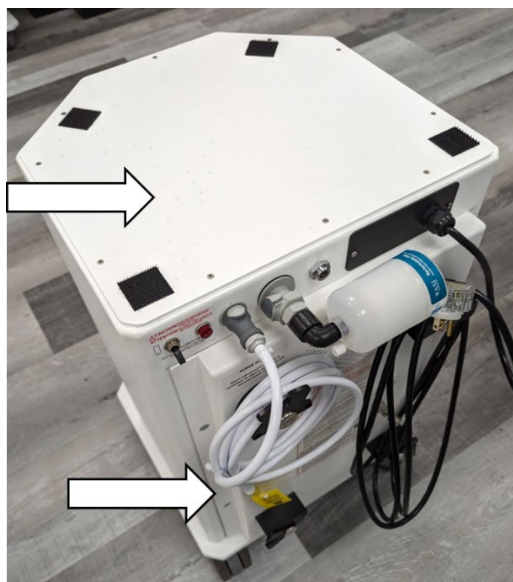


Fig. 1

- 4 Take the end of the umbilical from the mobile utility cart, and run the power cord(s) and tubing into the utility cart.
- 5 Secure the umbilical to the utility cart with the adapter panel provided on the umbilical, using four (4) 6-32 screws, that we installed in the recessed umbilical mount.

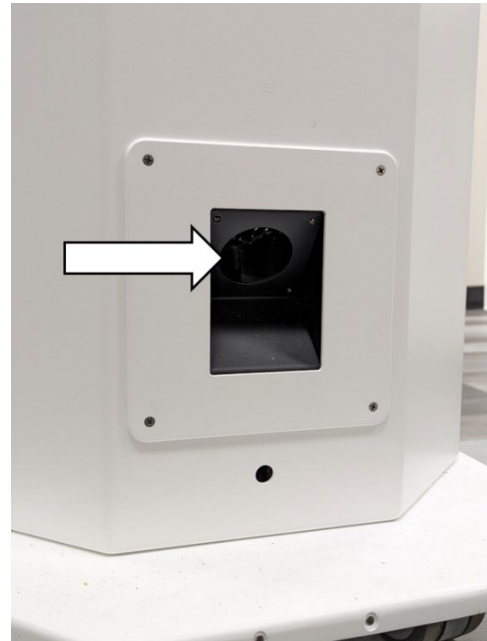


Fig. 2

- 6 Connect the suction hose to the open port on the suction canister and secure with a hose clamp.

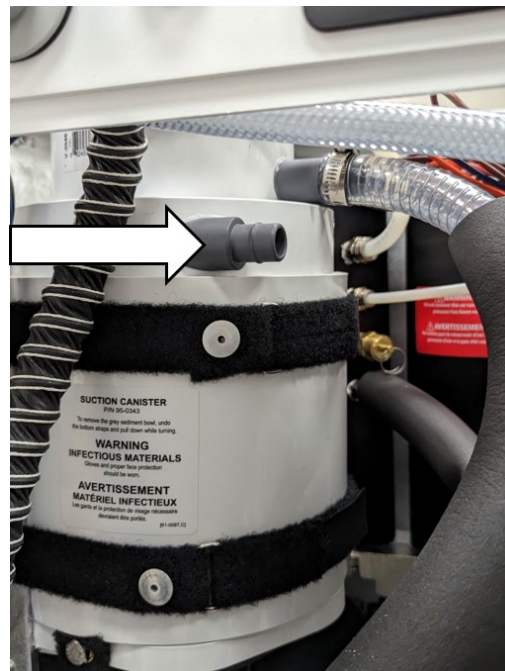


Fig. 3

- 7 Attach the supply air tub to the master air regulator manifold and secure with a tube sleeve.

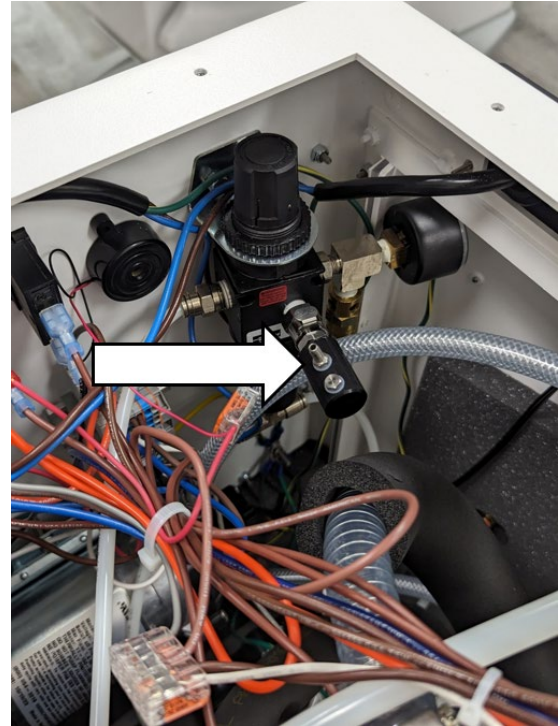


Fig. 4

- 8 Connect the electrical plugs to the outlet box.

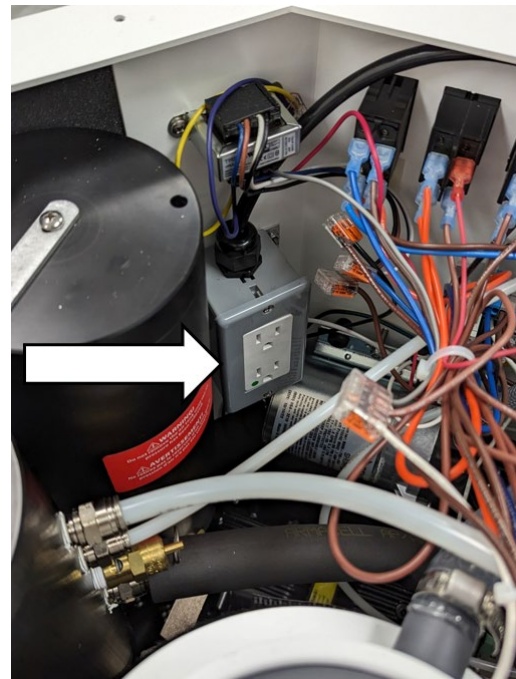


Fig. 5

- 9 Close the back panel, and re-attach the cover.

## EQUIPMENT CARE AND INSPECTION

The equipment should be thoroughly cleaned and disinfected after use each day to maintain optimal performance. All components should be maintained in proper working order and replaced as required.

### Inspection

The following visual checks and inspections should be performed before operating the unit:

- Look for mechanical damage that could affect safe operation.
- Ensure there are no missing parts or accessories.
- Inspect components for tightness, cracks, wear or frayed electrical cords.
- Should mechanical or other damage be evident that would affect the safe use or operation of the system, it should not be used until repair or replacements correcting the defects are made.

### Painted Surfaces

Do not spray detergents or solutions directly into openings, as this may damage internal components. If you are using a spray solution, please spray onto a soft cloth or sponge before wiping down these surfaces.

The use of non-foaming wipes can be used on these surfaces.

### Purging Suction Canister

The solids trap filters debris from the suction system, and remaining liquids are held in the suction canister. The canister holds up to 2 liters of solution. When the canister is full, an overflow shut-off device will disable the vacuum pump until purged.

**i** **IMPORTANT: Do not fill the canister to its capacity. The overflow shut-off is meant to prevent overflowing, but is not a fail-safe, and can result in liquid being pulled into the vacuum pump. Be sure to purge the suction canister on a daily basis.**

- 1 Turn OFF the vacuum pump.

**i** **IMPORTANT! Never let the vacuum run while purging.**

- 2 Completely unwind the purge hose from the rear of the system; ensure that the hose is not kinked.
- 3 Place the hose into a sink or a narrow-mouth receptacle; turn the purge pump ON. Make sure to hold the hose firmly while purging; liquid will be pumped under pulsating pressure.
- 4 Continue to pump until liquid stops draining from the hose. Turn OFF the purge pump. For “hands-free” purging, use optional Quick Connect Kit, Waste Purge, Self-Contained Systems (PN 90-2712, available online at [asisupport.com](http://asisupport.com)).



- 5 Fill a container with a MAXIMUM of 1-liter of water and 2 ounces Keep Clear (cleanser), or use concentrate with an ASI bottle atomizer.
- 6 Verify that the purge pump is OFF; turn the vacuum switch to ON and suction cleanser through the high-volume, micro suction, and saliva ejector handpieces.
- 7 Purge evacuation cleanser from canister.
- 8 Suction 1 ounce of concentrated ASI’s Keep Clear™ into suction system. This will allow the cleanser to begin breaking down biomaterial overnight and during procedures the next day.

**i IMPORTANT! DO NOT use more than 1 liter; to prevent overfilling canister.**

**i IMPORTANT! DO NOT USE bleach, mouthwash, or non-approved cleaners.**

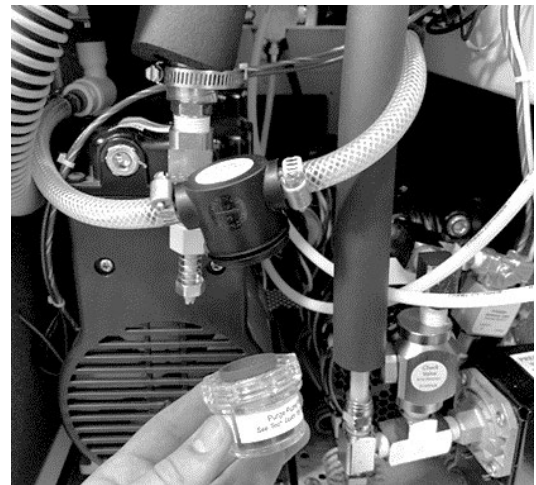


**In-Line Purge Filter**

Check the inline purge filter, and remove it and clean it if it appears clogged. ASI recommends replacing the filter at least twice per year (every 6 months).

**i See Infectious Materials Warning before beginning.**

- 1 Open the back of the cart and locate the purge filter.
- 2 With a waste basin located below the filter assembly, unscrew the bowl that houses the filter. Let the remaining waste drain from the tubing and housing completely.
- 3 Remove the old filter and discard. Replace the filter screen by placing in the bowl assembly, then re-tighten the bowl assembly to the in-line filter.



**Depressurizing and Removing Moisture Condensation from Air Tanks**

Compressing air creates moisture condensation which will store in the air tanks and will build up unless purged. To purge the air and moisture condensation from the system, locate the toggle switch on the right side of the back door. Open the valve to allow air and moisture to escape. Use a small cup under the port to capture any moisture. Let the air exhaust out until moisture ceases and then shut the valve securely to prevent loss of air to the handpieces.

**PREVENTIVE MAINTENANCE**

**Preventive Maintenance Schedule**

<b>SYSTEMS</b>	<b>Daily</b>	<b>1 Year</b>	<b>5 Years</b>
Check the purge filter to ensure there is no damage or debris.		X	
Inspect and replace purge tubing if worn, brittle, or hardened.		X	

<b>FOR SELF-CONTAINED UNITS ONLY - VACUUM PUMP SYSTEM</b>	<b>Daily</b>	<b>1-Year</b>	<b>5-Years</b>
Empty sediment bowl per suction canister maintenance.			X
Replace hose assembly/waste purge, peristaltic every 5 years: <ul style="list-style-type: none"> <li>▪ PN 95-0205 [Side Drain]</li> <li>▪ PN 95-0334 [Bottom Drain]</li> </ul>		X	
Inspect all vacuum tubing and fittings for leaks or damage. Replace, if needed.		X	
Replace felt filter muffler (PN 95-0093).		X	
Install rebuild kit for vacuum pump (PN 95-0378) every 5-10 years, if needed.			X
Test for proper function of purge pump and motor. Replace purge pump and motor (PN 95-0293), if necessary, every 5 years.			X
Inspect exterior waste purge hose assembly. If worn, brittle, or hardened, replace every 5 years (PN 95-0401).		X	

<b>FOR SELF-CONTAINED UNITS ONLY - INTERNAL AIR COMPRESSOR SYSTEM</b>	<b>Daily</b>	<b>1-Year</b>	<b>5-Years</b>
Inspect master air regulator for air leaks, proper function. Replace every 5 years (PN 95-0178C), if needed.		X	
Inspect filter regulator setting and make sure it reads 75-80 psi, adjust, if needed		X	
Inspect tubing and replace, if needed.		X	
Inspect purge filter tubing and housing, replace if needed.		X	
Clean/rinse filter screen after daily purge	X		
Replace filter screen		X	
Replace felt filter muffler (PN 95-0093).		X	
Install rebuild kit for compressor (PN 95-0378) every 5-10 years, if needed.			X
Inspect and clean check valve. Replace, if needed (PN 95-0108).		X	
Test Compressor pressure switch for proper function. Replace, if needed (PN 95-0264).		X	

<b>STRUCTURAL</b>	<b>Daily</b>	<b>1 Year</b>	<b>5 Years</b>
Verify all doors, drawer hinges and latches are undamaged. Tighten fittings and lubricate, if needed.		X	
Cart Systems: Clean wheels and casters of all debris.	X		

**Quarterly Maintenance**

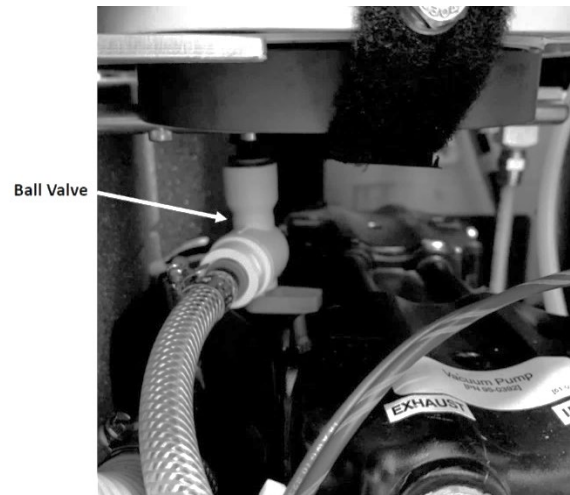
Cleaning or replacing in-line purge filter screen (quarterly)

The internal purge pump system includes an in-line filter that prevents debris from potentially entering the purge pump. This filter should be cleaned or replaced quarterly to avoid clogging.

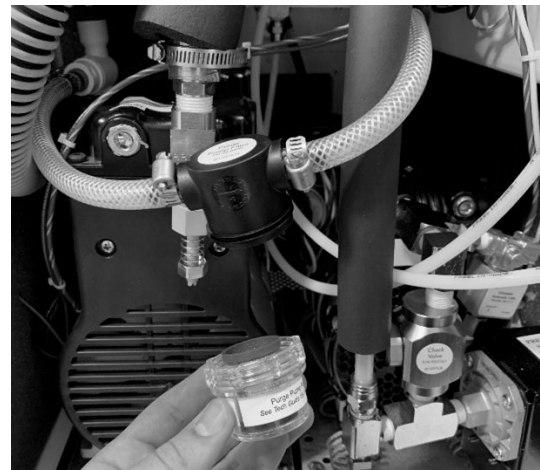
- 1 Turn off power and unplug the unit.
- 2 Open the back panel of the unit using a flat head screwdriver. There are two quick-turn screws on the back of the unit. Move the suction tube and the electrical cord out of the way of the back door.



- 3 Before removing the filter from the housing, locate the ball valve under the sediment bowl and turn it to the off position.



- 4 With a basin located below the filter assembly, unscrew the bowl that houses the filter. Let the remaining waste drain from the tubing and housing completely.



- 5 If replacing the filter screen, unscrew the bowl that houses the filter screen. Remove the old filter and discard. Replace the filter screen by placing in the bowl assembly, then re-tighten the bowl assembly to the in-line filter.
- 6 After the filter has been replaced and the filter bowl has been reinstalled, reopen the ball valve under the sediment bowl to allow for purging.

**Prepare for Storage**

To prepare for either storing or shipping, follow the instructions below:

- 1 Purge the waste container and flush clean with Keep Clear.
- 2 Remove amalgam separator, if equipped, and properly dispose of liquid. Clean well and dry.
- 3 Unplug unit from power and carefully wind the purge hose and power cord around the brackets on the rear of the cart.

## BASIC TROUBLESHOOTING

The following information is intended to assist with some common issues that could arise with the Rover mobile cleaning station. Many issues can be resolved or repaired without any special equipment or training.

### Troubleshooting the System

The system should be maintained and given proper care. If something does go wrong, the information contained herein explains what can be done prior to arranging for or attempting repairs. Additional information may be available in Technical Guides covering the individual components located on the dedicated website [ASIsupport.com](http://ASIsupport.com).

### Purging is Slow/Not Purging

- Verify the ball valve underneath the waste tank is open and allowing flow.
- Check the purge filter and ensure that it is not clogged with debris.
- Waste tank outlet tubing may be clogged; check the waste tank and see if there is visible debris at the bottom.
  - Resolution: Increase Keep Clear™ concentration and let sit to break down clogs.

### Purge Pump Not Activating

- The purge pump is fitted with a pressure switch that cuts power if it senses pressure buildup on the outlet. If the purge pump was turned ON without a purge hose connected, pressure may have built up within the purge tubing and activated the switch. Connect a purge hose and attempt to relieve the pressure within the tubing.

### LED Warning Indicator Not Turning Off

- The float switch may be stuck in the UP position. Open the waste tank lid and ensure that the switch is able to actuate UP and DOWN.
- System may not be purging; follow the previous instructions to resolve purging issues.

## CUSTOMER SUPPORT

For technical assistance with installation, operation, or service, please visit our dedicated service website at [ASIsupport.com](http://ASIsupport.com). There you will be able to review operation and service tips, technical guidelines, and email a technical request ticket or call directly to speak with someone on our technical support team.

To facilitate service, please have the serial number of your system available.

## REPLACEMENT PARTS

Replacement parts may be ordered directly online at **ASI.Parts**.

### List of Replacement Parts/Kits for This System

- Replacement Purge Hose Tubing Shurflo Purge Pump .....95-0400
- Replacement Filters for Purge Pump (Qty 4) .....95-0423
- Keep Clear Protease Enzymatic Evacuation System Cleaner, One Gallon .....95-0278
- Keep Clear Protease Enzymatic Evacuation System Cleaner, 1 Case .....95-0278/C4
- Air Compressor Assembly, 120V/60 Hz, 80-100psi .....95-0197
- Compressor Manifold, 115V.....95-0416
- Rebuild Kit, Air Compressor/Vacuum -Dual Piston .....95-0378
- Check Valve Maintenance Rebuild Kit.....95-0108
- Vacuum Pump Assembly, 115 Volt with Capacitor .....95-0167
- Capacitor, Replacement Compressor/Vacuum .....95-0398
- Relay, Vacuum .....95-0370
- Purge Pump, Shurflo.....95-0402
- Master Air Regulator w/Purge & Manifold, Easy Access .....95-0178C
- Suction Waste Canister .....95-0343

## SERVICE

Please follow the following steps for service of your equipment.

- 1 **Start with Troubleshooting** This section is designed to help narrow down most common problems.
- 2 **Visit ASIsupport.com – Tech Support – Learning and Knowledge Center** ASI’s support website contains a vast array of instructions, including short videos, and is available 24/7.
- 3 **Contact ASI Tech Support** If you still have questions, reach out to one of our Customer Service representatives, who can further assist you.
- 4 **“Find a Technician”** It is highly recommended that you have a qualified technician provide service, repairs, and routine maintenance for your system. Find an independent technician in your area on our website, **ASIsupport.com**.

**i** **IMPORTANT!** Before servicing your system, carefully read and fully adhere to all cautions and warnings.