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PURPOSE / OVERVIEW

This retrofit kit installs two single-pad wire rope isolators along the sides of the GSE High-Flow Vacuum unit. The isolators prevent the vacuum assembly from leaning and making contact with the compressor or side of cart during operation, reducing vibration transmission and protecting both components.

PARTS INCLUDED

Part Number	Description	Qty
81-1007	Single-pad wire rope isolators	2
15-0290	M6 × 12 mm hex head screws	2
15-0150	Flat head 1/4"-20 × 1/2" screws	2

TOOLS REQUIRED

- Flat head screwdriver
- Phillips heads screwdriver
- 1/4" hex head driver or wrench
- 5/32" Hex Key

CAUTIONS / WARNINGS

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.

INSTRUCTIONS

- Purge all waste from the system.

Remove the Vacuum Pump Assembly from the Cart

Turn off power to the system and unplug the unit from the electrical outlet.

Move the suction tube and main electrical cord clear of the back door to allow full access.

Open the back panel using a flat head screwdriver. The panel is secured by two quick-turn screws located on the back of the unit. (Fig 1.)



Fig. 1

⚠ CAUTION

Ensure the suction tube and electrical cord are fully clear of the back door before proceeding. Pinching or straining these components can cause damage.

Close the ball valve on the bottom of the sediment bowl to prevent any waste from leaking out and remove the inline purge tubing from the quick-connect fitting on the elbow for easier access.

Loosen the hose clamp on the hose barb connector of the vacuum pump. Slide the suction hose off the hose barb and move aside. (Fig. 2)

Locate the terminal strip on the right side of the chassis. Following the wiring label, disconnect the white wire from terminal strip position 4.

Locate the ground stud. Remove the nut and detach all ground wires.

⚠ IMPORTANT

When reinstalling ground wires in Step 6, the ground wire from the pan (top of the cart) must be installed first. Note this before removing wires.

Locate the relay on the left side of the chassis. Remove the black wire from the top-right terminal (position 2) on the relay.

Remove the three (3) 1/4"-20 hex head screws securing the vacuum plate to the cart chassis. (Fig 3.)

There are two Phillips head screws on the back of the mounting plate that clamp the mounting plate down. These must be loosened to allow the vacuum to slide out.

The vacuum pump assembly should now be free to be pulled from the cart.



Fig. 2

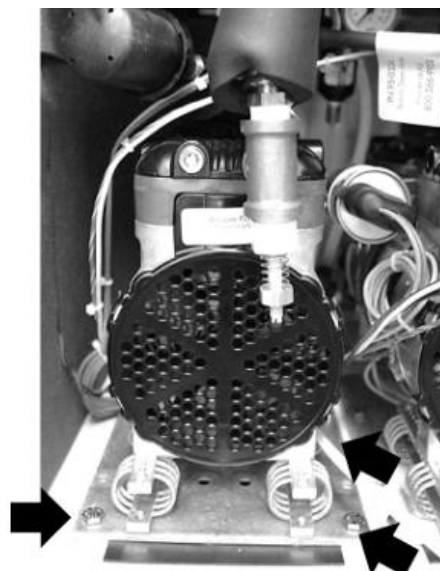


Fig. 3

2 Separate the Mounting Plate from the Wire Rope Isolators

With the vacuum pump assembly removed, loosen and remove the four (4) 1/4"-20 x 1/2" flat head screws securing the wire rope isolators to the mounting plate. Set the screws aside, as they will be reused later. Set the mounting plate aside for reinstallation in Step 5.

3	Remove the Intake-Side Wire Rope Isolator Remove the existing intake-side wire rope isolator from the assembly. This isolator will be replaced by the two single-pad isolators included in the retrofit kit.
4	Install the Two Single-Pad Isolators to the Vacuum Pump Attach both single-pad wire rope isolators to the underside of the vacuum pump using the four (4) provided M6 × 12 mm hex head screws (see Fig. 4).
5	Reinstall the Mounting Plate to the Isolators Reattach the mounting plate to the isolators using two (2) additional flat head 1/4"-20 × 1/2" screws included in the kit and screws set aside in step 2. Ensure the plate is seated flush.
6	Reinstall the Vacuum Pump Assembly into the Cart Reverse the removal procedure to reinstall the vacuum pump assembly, following the sequence below: Slide the mounting plate under the two Phillips head screws and washers in the back of the unit and secure the vacuum mounting plate to the base using three (3) 1/4"-20 hex head screws. Route the black wire to the relay and connect it to the top-right terminal (Position 2). Route the other black wire connected to the white wire to position 4 on the terminal strip ⚠ IMPORTANT Attach the ground wire from the pan (top of the cart) to the ground stud first. Then attach any remaining ground wires and secure with the nut. Slide the suction hose onto the hose barb connector on the vacuum pump and tighten the hose clamp securely. Close and secure the back panel.
7	Restore Power and Test



Fig. 4

⚠ WARNING	⚠ WARNING
QUALIFIED PERSONNEL ONLY The product should only be operated by qualified personnel. 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.	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	⚠ 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.	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	⚠ 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.	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.

QUESTIONS OR ASSISTANCE

For technical support, contact ASI Dental Specialties:

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REVISION HISTORY (For Internal Master Part File Only)

CO #	Rev	Description of Change	Author	Approval Date
CO-26-100	A	Release of Tech Guide	W. McPeck	08/17/26