Blazer GT



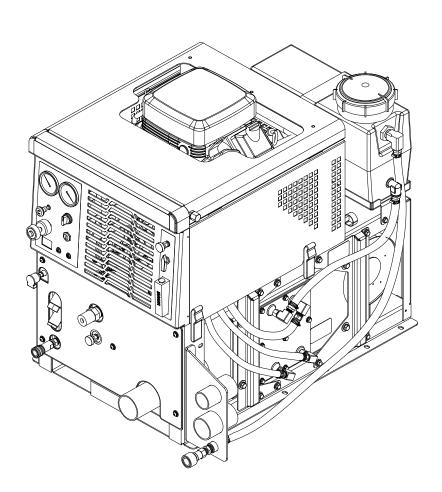
Mobile Cleaning Unit

Operating Instructions (ENG)

MODELS: BLAZER GT 1.001-121.0

N AZED OT DD

BLAZER GT DP 1.001-163.0



From Serial Number (Ref No1*)
*See Serial Number Page in Spare
Parts List or call manufacturer



	1
Model:	
Date of Purchase:	
Serial Number:	
Dealer:	
Address:	
Phone Number:	
Sales Representative:	

Welcome...and congratulations on the purchase of your Mobile Cleaning Unit. This instruction manual is a guide for operating and servicing your unit. **Read this manual completely before installing or operating this unit.** This unit offers you personal convenience. All of your instrumentation and controls have been positioned to give you easy access for operation and daily maintenance.

Proper operation and service are essential to the efficient functioning of this unit. When maintained correctly, this unit will have a long, trouble-free life.

The service methods described in this manual are explained in such a manner that servicing may be performed accurately and safely. Proper service varies with the choice of procedure, the skill of the mechanic, and the tools or parts available. Before attempting any repair, make certain that you are thoroughly familiar with this equipment and are equipped with the proper tools. Any questions pertaining to operating or servicing this unit should be directed to your nearest dealer.

THIS UNIT MUST BE INSTALLED BY THE DEALER FROM WHOM YOU PURCHASED IT IN ACCORDANCE WITH THE PRESCRIBED INSTALLATION PROCEDURES.

Information in this document is subject to change without notice and does not represent a commitment on the part of PROCHEM.

Warranty Registration

Thank you for purchasing a Legend Brands product. Warranty registration is quick and easy. Your registration will allow us to serve you better over the lifetime of the product.

To register your product go to :
https://www.legendbrandscleaning.com/Warranty
For customer assistance:
800-932-3030

PROCHEM

Receive a complementary package of Prochem Detergents valued at \$250 with registration.

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Acceptance of Shipment

Every part of your cleaning unit was carefully checked, tested, and inspected before it left our manufacturing plant. Upon receiving the unit, make the following acceptance check:

- The unit should not show any outward signs of damage. If damaged, notify the common carrier immediately.
- Check your equipment and packing list. The standard cleaning unit should arrive equipped with the following items (unless otherwise specified) and any optional accessories which were ordered:

Equipment List

- 1. Console.
- 2. Waste tank.
- 3. Fuel pump assembly.
- 4. 100 ft. of 2" vacuum hose.
- 5. 1 vacuum hose connector.
- 6. 100 ft. of 1/4" high pressure hose with quick connects.
- 7. 50 ft. water supply hose with quick connect.
- 8. Installation bolting kit.
- 9. Installation mounting plates.
- 10. Operation and service manuals for engine, water pump, and vacuum pump.
- 11. Carpet wand.
- 12. 5 gallon jug and holder.
- 13. Hose clamps for fuel & vacuum hoses.

This manual contains the following sections:

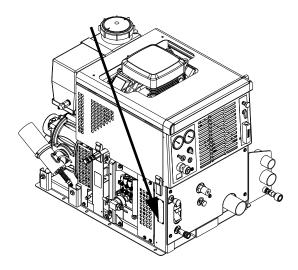
- How to Use This Manual
- Safety
- Installation
- Operations
- Maintenance & Service

The HOW TO USE THIS MANUAL section will tell you how to find important information for ordering correct repair parts.

Parts may be ordered from authorized dealers. When placing an order for parts, the machine model and machine serial number are important. Refer to the MACHINE DATA box which is filled out during the installation of your machine. The MACHINE DATA box is located on the inside of the front cover of this manual.

/		`
	Model:	
	Date of Purchase:	
	Serial Number:	
	Dealer:	
	Address:	
	Phone Number:	
	Sales Representative:	

The model and serial number of your machine is located approximately where shown



The SAFETY section contains important information regarding hazardous or unsafe practices for this machine. Levels of hazards are identified that could result in product damage, personal injury, or severe injury resulting in death.

The INSTALLATION section contains information on how to properly install the unit in your vehicle.

The OPERATIONS section is to familiarize the operator with the operation and function of the machine.

The MAINTENANCE section contains preventive maintenance to keep the machine and its components in good working condition. They are listed in this general order:

- Engine
- Vacuum Pump
- Solution Pump
- Drive Belts, Pulleys & Hubs
- Chemical Pump
- Hoses
- Exhaust Heat Exchanger
- General Service Adjustments
- · Machine Troubleshooting

NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

NOTE: The manual part number is located on the lower left corner of the front cover.

IMPORTANT SAFETY INSTRUCTIONS

When using this machine, basic precaution must always be followed, including the following: READ ALL INSTRUCTIONS BEFORE USING THIS MACHINE.



These symbols mean WARNING or CAUTION. Failure to follow warnings and cautions could result in fatality, personal injury to yourself and/or others, or property damage. Follow these instructions carefully!

Read the operator's manual before installing or starting this unit. Failure to adhere to instructions could result in severe personal injury or could be fatal.

Operate this unit and equipment only in a well-ventilated area. Exhaust fumes contain carbon monoxide which is an odorless and deadly poison that can cause severe injury or fatality. **DO NOT** run this unit in an enclosed area. **DO NOT** operate this unit where the exhaust may enter any building doorway, window, vent, or opening of any type.

Gasoline is extremely flammable and its vapors can explode if ignited. Store gasoline only in approved containers, in well-ventilated, unoccupied buildings away from sparks or flames. Never carry any gasoline or flammable material in the vehicle. Fumes may accumulate inside the vehicle and ignite, causing an explosion.

DO NOT store any type of flammable material in the vehicle.

This unit must be operated with the vehicle or trailer doors open in order to ensure adequate engine ventilation.

DO NOT operate engine if gasoline is spilled. Avoid creating any ignition until the gasoline has been cleaned up. Never use gasoline as a cleaning agent.

DO NOT place hands, feet, hair, or clothing near rotating or moving parts. Avoid any contact with moving parts! Rotating machinery can cause injury or fatality.

Never operate this unit without belt guards. The high speed moving parts, such as belts and pulleys, should be avoided while this unit is running. Severe injury, damage, or fatality may result.

DO NOT service this unit while it is running. The high-speed mechanical parts as well as high temperature components may result in severe injury or severed limbs.

Never touch electrical wires or components while the engine is running. They can be sources of electrical shock.

Engine components can get extremely hot from operation. To prevent severe burns, **DO NOT** touch these areas while the engine is running or immediately after the engine is turned off.

DO NOT touch any part of the exhaust system while this unit is running. Severe burns may result.

Before servicing this unit, allow it to cool down. This will prevent burns from occurring.

Water under high pressure at high temperature can cause burns, severe personal injury, or fatality. Shut down machine, allow to cool down, and relieve system of all pressure before removing valves, caps, plugs, fittings, filters, and bolts.

Always wear hearing protection when unit is running. Always comply with your company's Personal Protection Equipment (PPE) plan. Always comply with local noise ordinance when operating units.

DO NOT leave the vehicle engine running while operating this unit.

Dangerous Acid, Explosive Gases! Batteries contain sulfuric acid. To prevent acid burns, avoid contact with skin, eyes and clothing. Batteries produce explosive hydrogen gas while being charged. To prevent a fire or explosion, charge batteries only in well ventilated areas. Keep sparks, open flames, and other sources of ignition away from the battery at all times. Keep batteries out of the reach of children. Remove all jewelry when servicing batteries.

Before disconnecting the negative (-) ground cable, make sure all switches are OFF. If ON, a spark will occur at the ground cable terminal which could cause an explosion if hydrogen gas or gasoline vapors are present. When disconnecting the battery, **ALWAYS** disconnect the negative (-) terminal FIRST.

DO NOT smoke around the unit. Gas fumes may accumulate and be ignited. The battery is also extremely flammable. This will prevent possible explosions.

DO NOT damage the vehicle in any manner during installation. When routing fuel lines **DO NOT** place the hose in any location where damage may occur to the hose or vehicle. Avoid any contact with moving parts, areas of high temperature, brake lines, fuel lines, muffler, catalytic converter, or sharp objects.

There is no fuel solenoid shut off on this unit. Use only the provided CARB approved fuel hose for fuel lines. When traversing the vehicle floor with fuel lines, always use a bulkhead adapter. This will prevent leakage and ensure that the hose is not punctured by vehicle vibration abrasion.

Use only Prochem supplied fuel installation kits. Ensure to use the kit specific for the truckmount model and van model being used. When traversing the vehicle floor with fuel lines, always use a bulkhead adapter. This will prevent leakage and ensure that the hose is not punctured by vehicle vibration abrasion.

DO NOT exceed your vehicle's weight limit. The console with empty 60 gallon waste tank and accessories weighs approximately 710 lbs (800 lbs. if mounted on water tank). Make certain to account for any additional accessories in your weight and balance calculations. Make certain that the vehicle has the correct axle rating. This will prevent unsafe vehicle driving conditions.

We require high-back seats on all vehicles in which units are to be installed for head and neck protection. We recommend using a metal partition between the seats and equipment.

DO NOT operate this unit without the water supply attached and turned on. The solution pump and other vital components may be seriously damaged if this unit is permitted to operate dry without water.

Keep your vehicle work area clean. Wands, stair tools, and other accessories must be securely fastened before driving the vehicle.

All high pressure hoses must be rated for 3000 PSI at 250°F. Thermoplastic hoses do not meet these specifications and should not be used. Severe burns and injury may result if the hoses do not meet these requirements.

The winterizing loop hose assembly, Part # 86260700, PRV NO. 10-805380, is for winterizing use only. If used improperly, live steam may escape from this hose, causing it to whip around. Burns or injury may result.

Make certain that you receive complete training by the distributor from whom you purchased this unit.

This unit uses high pressure and temperature. Improper or irresponsible use may result in serious injury.

Do not modify this unit in any manner. Improper modification can cause severe personal injury or fatality.

CALIFORNIA PROPOSITION 65 WARNING: Engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

READ AND SAVE INSTRUCTIONS

MESURES DE SÉCURITÉ IMPORTANTES

Lors de l'utilisation d'un appareil à batteries, il est nécessaire de respecter systématiquement des mesures de sécurité de base, comme suit :

PRENEZ NOTE DE TOUTES CES MESURES AVANT D'UTILISER CETTE MACHINE.

A AVERTISSEMENT: A ATTENTION:

Ces symboles signifient AVERTISSEMENT ou MISE EN GARDE. Le non-respect des avertissements et le non-respect des avertissements et des mises en garde pourraient entraîner la mort, causer des blessures à vous-même et/ou à autrui ou encore des dommages matériels. Veuillez suivre attentivement ces instructions!

Lire le manuel d'utilisation avant d'installer ou de démarrer cet appareil. Le non-respect de ces instructions pourrait causer des blessures graves ou pourrait avoir des conséquences fatales.

Utiliser cet appareil et cet équipement uniquement dans un endroit bien ventilé. Les gaz d'échappement contiennent du monoxyde de carbone qui est un gaz inodore et mortel pouvant causer des blessures graves ou entraîner la mort. **NE PAS** faire fonctionner cet appareil dans un endroit clos. **NE PAS** utiliser cet appareil dans un endroit où les gaz d'échappement risquent de pénétrer dans une entrée de porte, une fenêtre, un évent ou toute ouverture d'un édifice.

L'essence est extrêmement inflammable et ses vapeurs pourraient exploser lorsqu'elles sont enflammées. Entreposer l'essence uniquement dans des contenants approuvés, dans un bâtiment bien ventilé et non occupé, à l'écart des étincelles ou des flammes. Ne jamais transporter de l'essence ou des substances inflammables dans le véhicule. Les vapeurs pourraient s'accumuler à l'intérieur du véhicule et s'enflammer, causant une explosion.

N'entreposer AUCUN type de substance inflammable dans le véhicule.

Cet appareil doit être utilisé avec la porte du véhicule ou de la remorque ouverte afin de garantir une bonne ventilation du moteur.

NE PAS utiliser le moteur si du carburant a été renversé. Éviter de créer une source d'inflammation jusqu'à ce que le carburant ait été nettoyé. Ne jamais utiliser d'essence en tant qu'agent de nettoyage.

NE PAS placer les mains, les pieds, les cheveux ou les vêtements à proximité des pièces rotatives ou mobiles. Éviter tout contact avec les pièces mobiles! Les machines tournantes peuvent entraîner des blessures ou la mort.

Ne jamais utiliser cet appareil sans garde-courroie ou capot en place. Les pièces se déplaçant à haute vitesse, comme les courroies et les poulies, devraient être évitées durant le fonctionnement de cet appareil. Cela pourrait causer des blessures graves, des dommages ou la mort.

NE PAS réparer cet appareil pendant qu'il est en marche. Les pièces mécaniques se déplaçant à haute vitesse de même que les composantes à température élevée peuvent causer des blessures graves ou des amputations.

Ne jamais toucher aux fils ou composants électriques pendant que le moteur est en marche. Ils peuvent provoquer des chocs électriques.

Les composants du moteur peuvent devenir extrêmement chauds durant le fonctionnement. Pour éviter les brûlures, **NE PAS** toucher à ces zones pendant que le moteur est en marche - ou immédiatement après son fonctionnement.

NE PAS toucher au système d'échappement lorsque l'appareil est en marche. Cela pourrait causer des brûlures.

Laisser refroidir l'appareil avant d'en effectuer l'entretien. Cela permettra de prévenir les brûlures.

De l'eau sous haute pression dont la température est élevée peut causer des brûlures, des blessures graves ou la mort. Mettre l'appareil hors tension, le laisser refroidir et décompresser tout le système avant de retirer les soupapes, les capuchons, les bouchons, les raccords, les filtres et les boulons.

Toujours porter une protection de l'ouïe durant le fonctionnement de l'appareil. Toujours se conformer à l'ordonnance locale sur la protection contre le bruit lors de l'utilisation d'appareils.

NE PAS laisser tourner le moteur du véhicule lors de l'utilisation de cet appareil.

Acide dangereux, gaz explosifs! Les batteries contiennent de l'acide sulfurique. Pour prévenir les brûlures par acides, éviter tout contact avec la peau, les yeux et les vêtements. Les batteries produisent du gaz hydrogène explosif pendant la charge. Pour empêcher tout incendie ou toute explosion, charger les batteries uniquement dans des endroits bien ventilés. Garder la batterie à l'écart des étincelles, de la flamme nue et de toute autre source d'inflammation en tout temps. Garder les batteries hors de la portée des enfants. Enlever tous les bijoux au moment de procéder à l'entretien des batteries.

Avant de débrancher le câble de terre négatif (-), s'assurer que tous les commutateurs se trouvent ne position OFF (arrêt). S'ils se trouvent en position ON (Marche), une étincelle au niveau de la borne du câble de terre pourrait causer une explosion si du gaz hydrogène ou des vapeurs d'essence sont présents. Au moment de déconnecter la batterie, **TOUJOURS** déconnecter d'ABORD la borne négative (-).

NE PAS fumer à proximité de l'appareil. Des émanations pourraient s'accumuler et prendre feu. La batterie est également extrêmement inflammable. Cela permettra de prévenir toute possibilité d'explosion.

NE PAS endommager le véhicule de quelque façon que ce soit durant l'installation. Lors de l'acheminement des conduits de carburant, **NE PAS** placer le flexible dans un endroit où le flexible ou le véhicule risquerait de subir des dommages. Éviter tout contact avec les pièces mobiles, les zones à température élevée, les conduites de frein, les conduits de carburant, le silencieux, le convertisseur catalytique ou les objets tranchants.

Cet appareil ne comporte pas de dispositif d'arrêt pour le solénoïde du carburant. Utiliser uniquement le flexible à carburant approuvé par CARB pour les conduits de carburant. Au moment d'acheminer les conduits de carburant dans le plancher du véhicule, toujours utiliser un adaptateur passe-cloison. Cela permettra de prévenir les fuites et de s'assurer que le flexible ne soit pas perforé par les abrasions causées par la vibration du véhicule.

Utiliser uniquement des trousses d'installations de carburant fournies par Prochem. S'assurer d'utiliser une trousse spécifique aux modèles montés sur camion et camionnette. Au moment d'acheminer les conduits de carburant dans le plancher du véhicule, toujours utiliser un adaptateur passe-cloison. Cela permettra de prévenir les fuites et de s'assurer que le flexible ne soit pas perforé par les abrasions causées par la vibration du véhicule.

NE PAS excéder la limite de poids du véhicule. Le poids de la console avec le réservoir à décharge de 227 litres (60 gallons) et les accessoires est d'environ 323 kg (710 lbs). S'assurer de tenir compte de tout accessoire supplémentaire au moment du calcul du poids et de l'équilibre. S'assurer que le calibre des essieux du véhicule est adéquat afin d'éviter des conditions de conduite dangereuses.

Nous exigeons des sièges baquets dans tous les véhicules dans lesquels des appareils sont installés pour une meilleure protection de la tête et du cou. Nous recommandons d'utiliser une cloison métallique entre les sièges et l'équipement

NE PAS utiliser cet appareil si l'alimentation en eau n'est pas attachée et ouverte. La pompe à solution et les autres composants essentiels risqueraient d'être sérieusement endommagés si l'appareil fonctionne à sec sans eau. Le fonctionnement sans un approvisionnement en eau adéquat pourrait endommager la pompe à solution. S'assurer également que l'alimentation en eau est adéquate.

Garder la zone de travail du véhicule propre. Les lances, les outils pour marche d'escalier et les autres accessoires doivent être fermement attachés avant de conduire le véhicule.

Tous les flexibles de haute pression doivent avoir une capacité d'au moins 3 000 PSI à 121 °C (250 °F). Les flexibles thermoplastiques ne répondent pas à ces spécifications et ne devraient pas être utilisés. Des brûlures et des blessures graves peuvent être causées si les flexibles ne satisfont pas à ces exigences.

L'ensemble du flexible de boucle d'hivérisation, no de pièce 86260700, sert à l'hivérisation uniquement. Si elle n'est pas utilisée de façon adéquate, de la vapeur vive pourrait s'échapper de ce flexible et l'amener à fouetter l'air tout autour. Cela risquerait de causer des brûlures ou des blessures.

S'assurer de recevoir la formation complète par le distributeur auprès duquel l'appareil a été acheté.

L'appareil utilise des pressions et des températures élevées. Une utilisation inappropriée ou irresponsable pourrait causer des blessures graves.

Ne pas modifier cet appareil de quelque manière que ce soit. Toute modification inappropriée pourrait causer des blessures graves ou la mort.

AVERTISSEMENT EN VERTU DE LA PROPOSITION 65 DE L'ÉTAT DE LA CALIFORNIE: L'échappement du moteur de ce produit contient des agents chimiques connus, dans l'État de la Californie, comme pouvant causer le cancer, des anomalies congénitales ou d'autres problèmes liés à la reproduction.

CONSERVER CES INSTRUCTIONS

The following symbols are used throughout this guide as indicated in their descriptions:

Hazard Intensity Level

There are three levels of hazard intensity identified by signal words - **WARNING** and **CAUTION** and **FOR SAFETY**. The level of hazard intensity is determined by the following definitions:

AWARNING:

WARNING - Hazards or unsafe practices which COULD result in severe personal injury or death.

ACAUTION:

CAUTION - Hazards or unsafe practices which could result in minor personal injury or product or property damage.

FOR SAFETY: To Identify actions which must be followed for safe operation of equipment.

Report machine damage or faulty operation immediately. Do not use the machine if it is not in proper operating condition. Following is information that signals some potentially dangerous conditions to the operator or the equipment. Read this information carefully. Know when these conditions can exist. Locate all safety devices on the machine. Please take the necessary steps to train the machine operating personnel.

FOR SAFETY:

DO NOT OPERATE MACHINE: Unless Trained and Authorized. Unless Operation Guide is Read and understood. In Flammable or Explosive areas. In areas with possible falling objects.

WHEN SERVICING MACHINE:

Avoid moving parts. Do not wear loose clothing; jackets, shirts, or sleeves when working on the machine. Use Prochem approved replacement parts.

Les symboles ci-dessous sont utilisés à travers ce manuel comme illustré dans leurs descriptions :

DEGRÉS DE RISQUES EN CAS DE DANGER

Il existe trois degrés de risques identifiés par les termes signalétiques –**AVERTISSEMENT** et **ATTENTION** et **POUR VOTRE SÉCURITÉ.** Le degré de risque est défini de la manière suivante:

A AVERTISSEMENT:

AVERTISSEMENT - Dangers ou méthodes dangereuses qui POURRAIENT provoquer de graves blessures ou entraîner la mort.

AATTENTION:

ATTENTION - Dangers ou méthodes dangereuses qui pourraient provoquer des blessures légères ou une détérioration du produit ou des biens immobiliers.

POUR VOTRE SÉCURITÉ: ce signe permet d'identifier les mesures de précaution à prendre pour assurer un bon fonctionnement du matériel.

Rendre compte immédiatement d'une défaillance ou d'une détérioration de la machine. Ne pas utiliser la machine si celleci ne fonctionne pas correctement. Lire soigneusement les informations ci-dessous signalant certains dangers potentiels pour l'opérateur de la machine. L'opérateur doit être absolument au courant de ces dangers potentiels. Localiser tous les dispositifs de sécurité sur la machine. Il est conseillé de prendre les mesures nécessaires pour former le personnel opérateur.

POUR VOTRE SÉCURITÉ:

NE PAS MANOEUVRER LA MACHINE:

Lorsqu'on n'est pas expérimenté ou qualifié.

Lorsque le guide d'utilisation n'est pas été lu ou compris.

Dans des zones inflammables ou explosives.

Dans des zones où des objets peuvent tomber.

LORS DE L'ENTRETIEN DE LA MACHINE:

Éviter les parties amovibles. Ne pas porter de vêtements amples, tels que des vestes, des chemises ou des vêtements avec manches lors de l'utilisation de la machine. Utiliser les pièces détachées homologuées.

Safety Labels

The following **WARNING LABELS** are found on your cleaning unit. These labels point out important **Warnings** and **Cautions** which should be followed at **all** times. Failure to follow warnings and cautions could result in fatality, personal injury to yourself and/or others, or property damage. Follow these instructions carefully! **DO NOT** remove these labels.

NOTE: If at any time the labels become illegible, promptly replace them.

EMPLACEMENT DE L'ÉTIQUETTE DE SÉCURITÉ

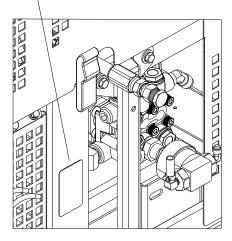
REMARQUE : Ces dessins indiquent l'emplacement des étiquettes de sécurité sur la machine. Si, à tout moment, les étiquettes deviennent illisibles, contactez votre représentant autorisé pour un remplacement rapid

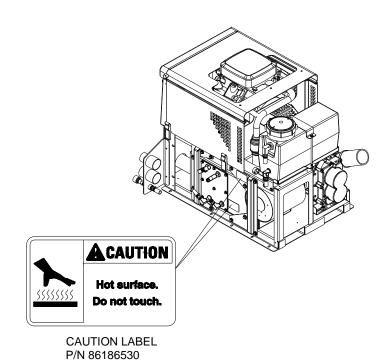


CAUTION LABEL P/N 86352580 Installation on vehicle fuel door.

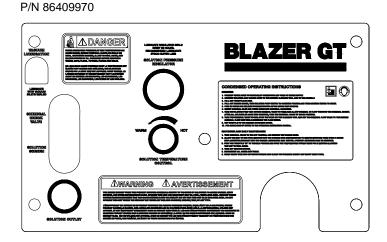


WARNING LABEL P/N 86186520





LABEL, LOWER FRONT PNL, BGT



Dealer Responsibility

Your distributor from whom you purchased this mobile cleaning unit is responsible for correct installation of this machine. The dealer is also responsible for initial training of your operators and maintenance personnel in proper operation and maintenance of this unit.

Vehicle Requirements

 The unit should NOT be mounted in any motor vehicle of less than 1/2 ton capacityor 3/4 ton if equipped with one or more auxiliary fresh water tanks.

ACAUTION:

DO NOT exceed the vehicle's axle weight limit. Include the console, full tanks, accessories, and operators in calculations.

AATTENTION:

NE PAS excéder la limite de poids des essieux du véhicule. Inclure la console, les réservoirs pleins, les accessoires et les opérateurs au moment d'effectuer les calculs.

- If mounting in a trailer, make certain that trailer is rated for the total weight of UNIT AND TRAILER. Electric or hydraulic brakes should be provided, and a strict compliance with any State and Federal vehicle laws must be maintained.
- 3. The vehicle tires should have a load rating above the combined vehicle and unit weight.
- We do not recommend using flooring materials that absorb water. This could result in rust and corrosion of the vehicle floor.
- 5. Padding under rubber floor mats should be removed before installing this unit.
- We highly recommend using a drip tray under console (Part #86050370, or Part # 86050380 for units mounted on a water tank).
- If using a trailer, console should be positioned so that it balances properly with respect to axle. Ten percent (10%) of the overall unit weight, should be on tongue.

Example: If loaded trailer weight is 2,000 lbs., tongue weight needs to be a minimum of 200 lbs. to tow properly.

Lifting Unit Onto Vehicle

Since console weighs approximately 500 lbs. pounds, we recommend using a forklift to lift unit onto vehicle. Position forks under unit from front and make CERTAIN that forks are spread to insert into frame slots.

Positioning Unit In Vehicle

Because vehicles vary in size and openings, individuals have their own preference as to where they want their units installed. We strongly recommend a side door installation for this and **DO NOT** recommend a rear door installation.

- Enough space should be provided to assure adequate engine ventilation and room for service and maintenance.
- The unit with waste tank and accessories must NOT exceed vehicle's axle weight limit. An empty 60 gallon waste tank and console weighs 710 lbs (800 lbs. if mounted on water tank).
- DO NOT position the console closer than 12" from bottom of driver and passenger seats.

NOTE: For individuals who wish to make an engineering layout prior to positioning unit, refer to "Dimensional Data" illustrations for waste tank and console dimensions.

Bolting Down Unit And Waste Tank

NOTE: When positioning waste tank with respect to console, hook up the vacuum hose to waste tank. This will ensure that waste tank is positioned correctly. Proceed once unit and waste tank are positioned in vehicle in desired location.

ACAUTION:

Before drilling any mounting holes in vehicle floor, make certain that when drilling, you will not do any damage to fuel tank, fuel lines, or any vital component which might affect operation or safety of vehicle.

AATTENTION:

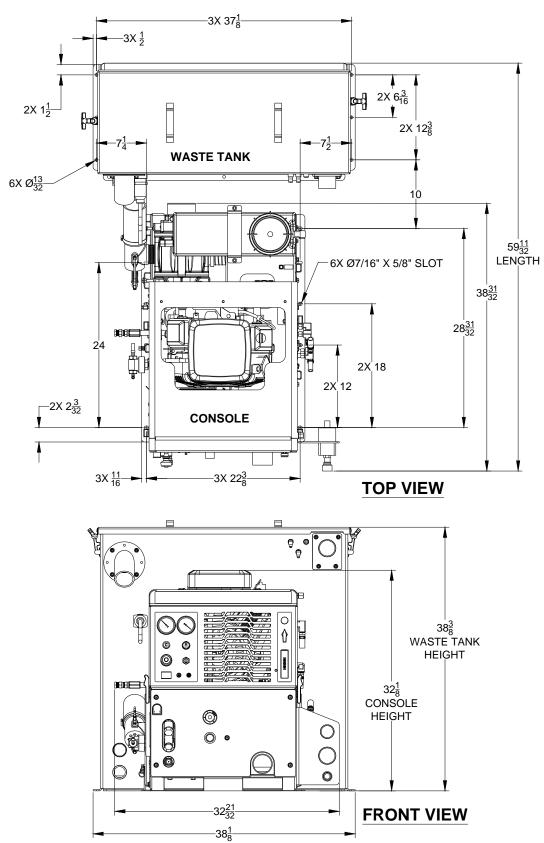
Avant de percer les trous de montage dans le plancher du véhicule, s'assurer que les trous ne causeront aucun dommage au réservoir à carburant, aux conduits de carburant ou tout autre composant essentiel qui pourrait affecter le fonctionnement ou la sécurité du véhicule.

- Using console and waste tank mounting holes as a template, drill six 13/32" diameter holes for mounting console and six more 13/32" diameter holes for mounting waste tank.
- 2. Using installation hardware kit:
 - a. Insert six 3/8-16 x 2" hex head cap screws with flat washers through mounting holes in console, and six 3/8-16 x 2" hex head cap screws with flat washers through mounting holes in waste tank.
 - b. Install mounting plates underneath vehicle floor.
 - c. Screw 3/8-16 hex head locknuts on mounting screws and tighten them until console and waste tank are firmly secured to vehicle floor.

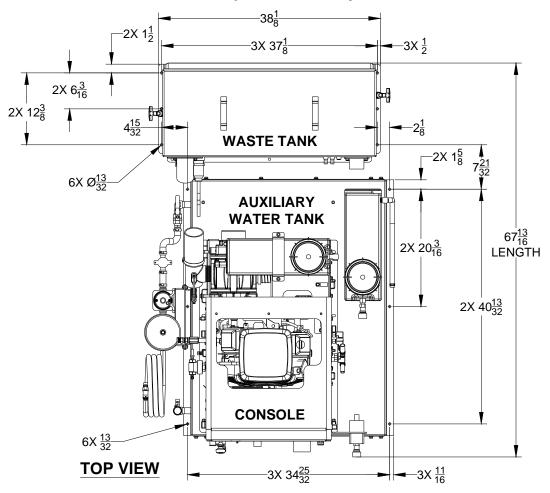
Electrical Wiring

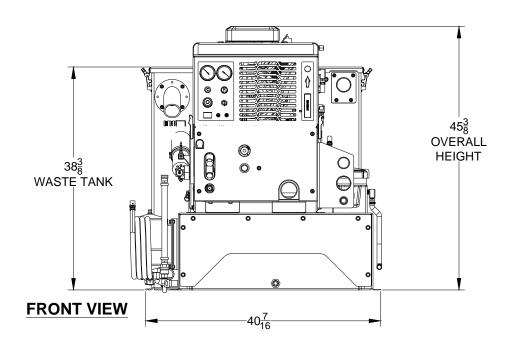
Ensure all electrical wiring and battery cables are free from contact with any metal edge. Engine vibration could cause metal edge to cut wiring and possibly result in a fire. Be aware of where battery cables are run.

Layout with 60 Gallon Waste Tank

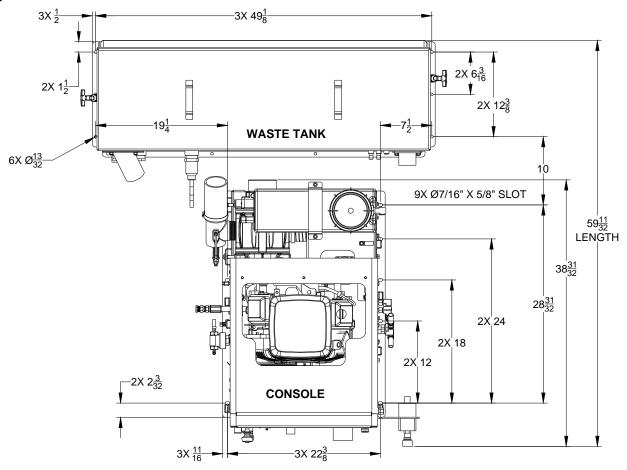


Layout with 60 Gallon Waste Tank & Optional Auxiliary Water Tank

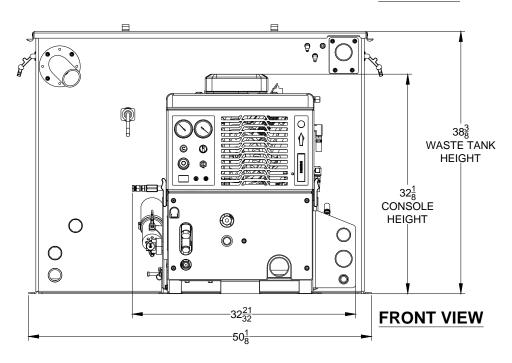




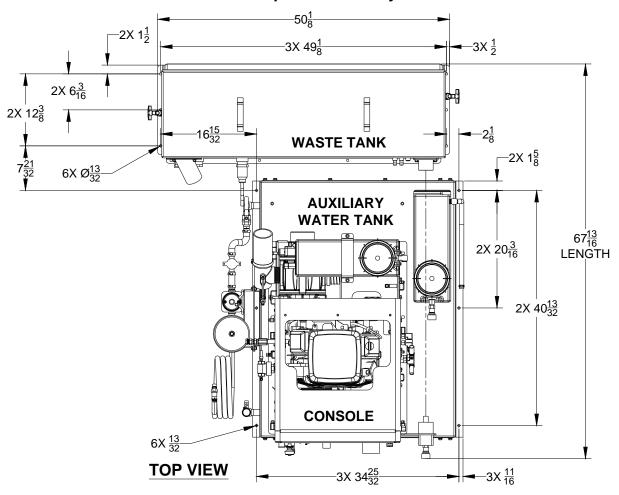
Layout with 100 Gallon Waste Tank

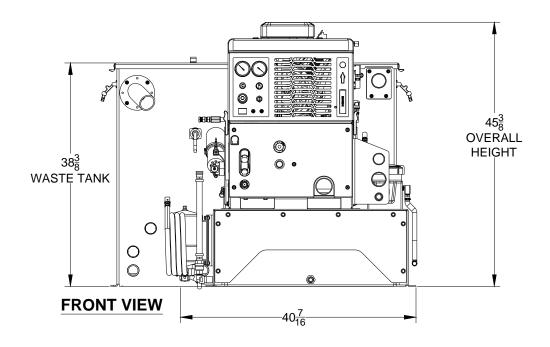


TOP VIEW



Layout with 100 Gallon Waste Tank & Optional Auxiliary Water Tank





Waste Tank To Console Connection

NOTE: Before connecting any hoses to the waste tanks, make certain the hose clamps are on each hose.

- Connect the section of 2-7/8" I.D. internal vac hose between the 2-7/8" dia. vac outlet tube on the waste tank and the vacuum pump relief valve on the console. It may be necessary to cut this hose to fit. Tighten the hose clamps.
- Connect the 2" I.D. waste removal hose to the 2" dia. tube at the bottom corner of the waste tank. Cut to desired length. Install brass ball valve on other end.
- 3. Connect 2-1/2" I.D. hose between waste tank vacuum inlet (upper right of waste tank) and vacuum inlet on lower side panel of console.
- 4. Connect the 3/16" blue hose from the water box to the lower flare fitting (angled downward) on the waste tank.
- Run the 5/8" water box overflow hose through the van floor. Prior to drilling through the van floor, ensure that no damage will occur in drilling area. Ensure that you are in compliance with all local environmental laws.
- 6. Connect the console engine shut-off cord to the waste tank level sensor cord.
- 7. Connect the 3/16" blue hose from the solution temperature control valve to the other flare fitting (angled downward) on the waste tank.

Fire Extinguisher

We recommend that a fire extinguisher, preferably rated for A, B, & C type fires, be installed inside the vehicle.

Fuel Pump Assembly Installation



Before drilling the fuel line holes in the vehicle floor, make certain that when drilling you will not do any damage to the fuel tank(s), fuel lines, brake lines, heat shields, or any other vital component which might affect the operation or safety of the vehicle.

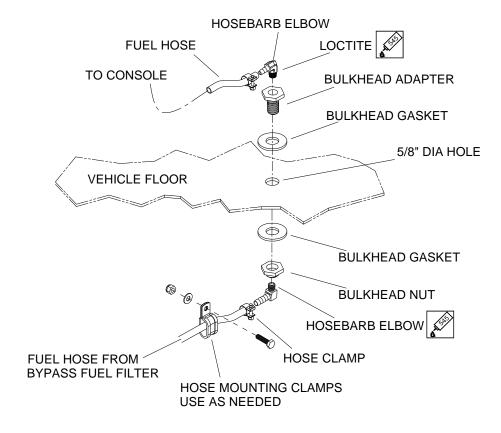
A AVERTISSEMENT:

Ne pas monter cet ensemble, les flexibles ou les composants à proximité du convertisseur catalytique, de l'échappement ou de toute zone où la température est élevée. Éviter tout contact avec les pièces mobiles, les zones à température élevée, les conduites de frein, les conduits de carburant, le silencieux, le convertisseur catalytique ou les objets tranchants.

- Determine the position where the fuel pump assembly will be mounted. Check to ensure that the power cord length will support the mounting location. The pump should be mounted as low as possible and still be protected by the frame from road hazards. Mount the fuel pump with the discharge side of the pump higher than the suction side to eliminate the possibility of trapped air in the pump. Additional mounting holes are provided to allow for different mounting options.
- 2. Drill a 5/8" (.625) diameter hole in the vehicle floor for routing the fuel pump power cord to the truckmount console. Check to ensure that the cord length will support the location of the hole.
- 3. Route the power cord and install the hole grommet.
- Do not connect the power cord to the truckmount console wiring harness until installation is complete.

Van Bulkhead Installation

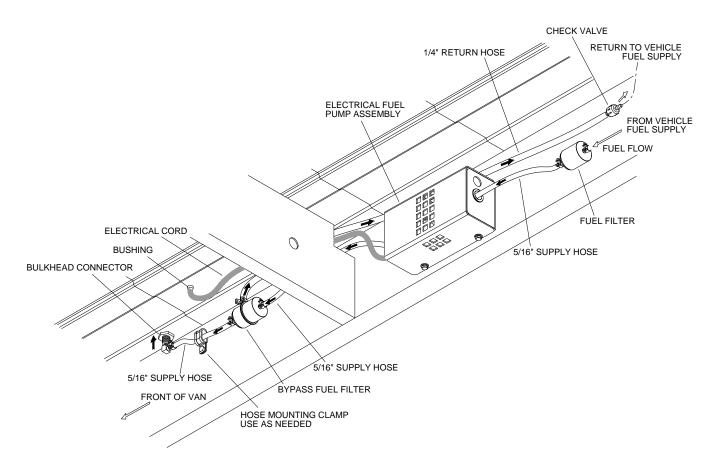
- 1. Select a location on the vehicle floor to drill the hole for the bulkhead adapter. This location should be situated in a position that eliminates the possibility of fuel line contact by either the operator(s) or accessories during the working hours or maintenance periods. Make certain that the supplied hoses will reach the location and work with the configuration you choose.
- 2. Drill a 5/8" (.625) diameter hole through the vehicle floor at the installation point chosen for the bulkhead.
- 3. Install the 1/8 NPT bulkhead adapter by inserting the adapter and tightening the nut on the opposite side of the van floor.
- 4. Attach the 1/8 NPT x 1/4 Hosebarb 90 degree elbow to the bulkhead inside the van to connect the fuel system to the console.
- 5. Attach the 1/4" fuel hose from the console to the 1/4" Hosebarb 90 degree elbow on the bulkhead.



Fuel Supply & Return Line Installation (Underneath Van)

- 1. Attach the 1/8 NPT x 5/16 Hosebarb 90 degree elbow to the bulkhead adapter underneath the van to be used for the fuel supply line.
- 2. Cut to length the 6' piece of 5/16" 50 PSI fuel hose used for the supply line from:
 - a. Bulkhead adapter to the outlet side of the bypass fuel filter.
 - b. Inlet side of the bypass fuel filter to the discharge side of the fuel pump.
 - c. Inlet side of the fuel pump to the outlet side of the inline fuel filter.
- 3. Cut to length the 6' piece of 1/4" fuel line to connect the bypass fuel filter with the fuel tank return using the appropriate fuel tap kit.
- 4. Check all hose clamps for tightness.

NOTE: Fuel tap kit installation instructions are found with appropriate fuel tap kit. Refer to Fuel Tap Kit Information Sheet (8.634-994.0)



Battery Connection

AWARNING:

Dangerous Acid, Explosive Gases! Batteries contain sulfuric acid. To prevent acid burns, avoid contact with skin, eyes, and clothing.

Batteries produce explosive hydrogen gas while being charged. To prevent a fire or explosion, charge batteries only in well-ventilated areas. Keep sparks, open flames, and other sources of ignition away from the battery at all times. Keep batteries out of the reach of children. Remove all jewelry when servicing batteries.

Before disconnecting the negative (-) ground cable, make sure all switches are OFF. If ON, a spark will occur at the ground cable terminal which could cause an explosion if hydrogen gas or gasoline vapors are present. When disconnecting the battery, ALWAYS disconnect the negative (-) terminal FIRST.

A AVERTISSEMENT:

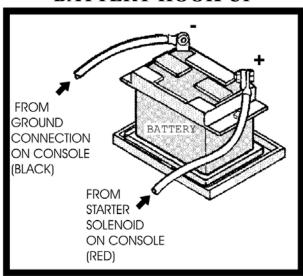
Acides dangereux, gaz explosifs! Les batteries contiennent de l'acide sulfurique. Pour prévenir les brûlures par acides, éviter tout contact avec la peau, les yeux et les vêtements.

Les batteries produisent du gaz hydrogène explosif pendant la charge. Pour empêcher tout incendie ou toute explosion, charger les batteries uniquement dans des endroits bien ventilés. Garder la batterie à l'écart des étincelles, de la flamme nue et de toute autre source d'inflammation en tout temps. Garder les batteries hors de la portée des enfants. Enlever tous les bijoux au moment de procéder à l'entretien des batteries.

Avant de débrancher le câble de terre négatif (-), s'assurer que tous les commutateurs se trouvent ne position OFF (arrêt). S'ils se trouvent en position ON (Marche), une étincelle au niveau de la borne du câble de terre pourrait causer une explosion si du gaz hydrogène ou des vapeurs d'essence sont présents. Au moment de déconnecter la batterie, TOUJOURS déconnecter d'ABORD la borne négative (-).

- 1. Attach the red positive (+) battery cable from the console starter solenoid to the positive (+) terminal on the battery and tighten the holding nut.
- 2. Next, attach the black negative (-) battery cable from the console ground to the negative (-) terminal on the battery and tighten the holding nut.

BATTERY HOOK-UP



Initial Operational Settings

NOTE: Due to temperature and altitude changes, the optimal settings for each truckmount must be adjusted after installation. Failure to make these adjustments may lead to poor unit performance and premature component failure.

Vacuum Pump

The maximum vacuum pressure obtainable at full throttle should be 13"Hg. If the unit is drawing a stronger vacuum (at full sealed suction) than 13" Hg, adjust the vacuum relief spring to 13" Hg.

Engine

Set RPM Values as shown below. Refer to Engine Operation Manual for adjustment instructions.

THROTTLE	LOAD	RPM*
Idle	None	1400 rpm
Full	13" Hg. Vacuum 500 psi pressure	3000 rpm
Full	None	3200 rpm

^{*±50} rpm tolerance

Technical Specifications

ITEM	DIMENSION/CAPACITY	
Engine speed	3200 rpm 1400 rpm (idle speed)	
Water pump rpm	1655 rpm	
Vacuum pump rpm	3200 rpm	
Water flow rate	3.5 GPM (maximum)	
Water pump pressure	1200 PSI (maximum)	
Vacuum relief valve	13" Hg	
Waste tank capacity	60 gallons / 100 gallons	
Console weight	500 lbs. (590 lbs. If mounted on water tank)	
Console weight with:	710 lbs. with empty waste tank	
60 gallon waste tank & accessories	1152 lbs. with full waste tank	
Console weight with: 60 gallon waste tank, water tank & accessories)	800 lbs. with empty waste and water tanks 1242 lbs. with full waste tank, and empty water tank 1742 lbs. with full waste and water tanks	
Console weight with:	720 lbs. with empty waste tank	
100 gallon waste tank & accessories	1345 lbs. with full waste tank	
Console weight with: 100 gallon waste tank, water tank & accessories	810 lbs. with empty waste tank 1435 lbs. with full waste tank, and empty water tank 1935 lbs. with full waste and water tanks	
TORQUE VALUES		
Engine rear / vac pump pulley	21 foot lbs	
Engine front / water pump pulley	8 foot lbs	

Fuel Requirements

Use unleaded gasoline ONLY. DO NOT use any gasoline additives. We recommend the use of clean, fresh, unleaded gasoline intended for automotive use. High octane gasoline should **NOT** be used with the engine on this unit. These engines are NOT designed to use E-85 or Flex Fuels.

Engine Oil Requirements

Use high quality detergent 10W-40 oil of at least API (American Petroleum Institute) service class SG, SH, SJ or higher.

NOTE: Using a lower service class oil or extending oil change intervals longer than recommended can cause engine damage.

NOTE: Synthetic oils meeting the listed classifications may be used with oil changes performed at recommended intervals. However to allow piston rings to properly seat, a new or rebuilt engine should be operated for at least 50 hours using standard petroleum based oil before switching to synthetic oil.

Altitude Requirements

Engines perform differently with increases/decreases in altitude. Be sure to check engine speeds during initial installation. See engine speeds in Technical Specifications section.

NOTE: To ensure correct engine operation at altitudes above 1525 meters (5000 ft.), it may be necessary to have an authorized dealer install a special high altitude jet kit in the carburetor. If a high altitude kit has been installed, the engine must be reconverted to the original jet size, before it is operated at lower altitudes, or overheating and engine damage can result.

Chemical Requirements

This cleaning unit, due to its chemical injection pump design, can be used with a variety of water-diluted chemical compounds (either acidic or alkaline), depending on the job to be done. However, to obtain optimum results with this unit, we recommend using the PROCHEM line of chemicals. For information on using the cleaning compounds, refer to the chemical manual.

Water Requirements

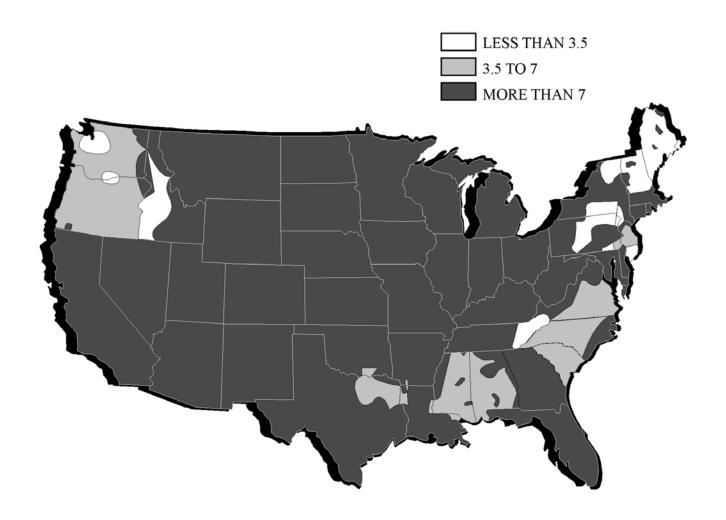
Hard water deposits will adversely affect the plumbing and heat exchange systems on this unit. The map below will give you an idea of where areas of high water hardness may occur. However, any water supply obtained from a well is almost always hard water and a water softener will be needed to protect your equipment.

NOTE: Equipment malfunction or component failure caused by hard water scaling is NOT covered under the warranty.

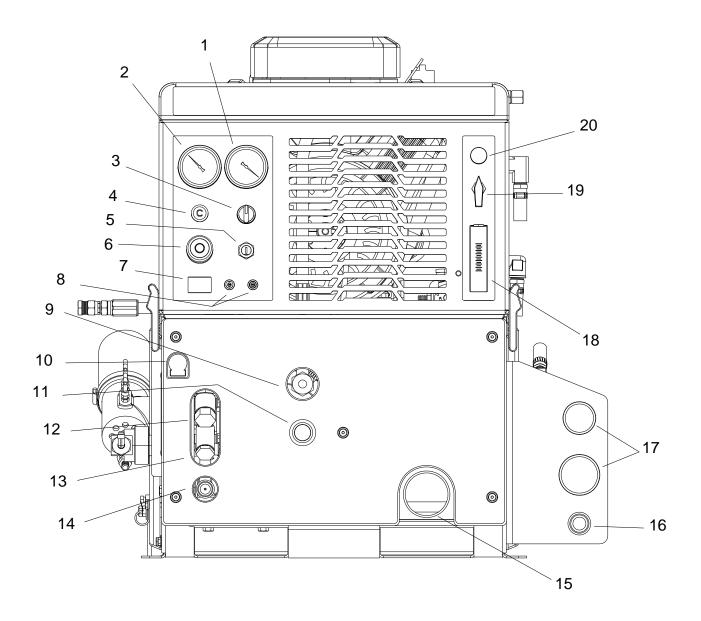
If you are operating this unit in an area where the unit will be using water in which the harness exceeds 3-1/2 grains, we highly recommend a suitable water softener be installed. If using a water softener, it must have a five (5) GPM (or greater) flow capacity without any hose constrictions.

Using a water softener will reduce maintenance and decrease down time caused by hard water scaling. It will also allow cleaning chemicals to be more effective in lower concentrations

If you require a water softener, your dealer has a model to meet your needs. Please contact your nearest distributor for information, price, and abailability.



Components



Components

1. Vacuum Gauge

This gauge indicates in inches of mercury how much vacuum the system is producing at any given time.

2. Solution Pressure Gauge

This gauge registers the amount of pressure in the system.

3. Waste Pumpout / Override Switch

This switch actuates the optional waste pumpout.

4. Choke

The choke is for restricting air to the carburetor, this enriches the fuel mixture. The primary purpose is for starting in cold temperatures. When the cable is pulled out air is restricted, when pushed in the engine is in run position.

ACAUTION:

Do NOT run engine with choke pulled out.

AATTENTION:

Ne pas faire fonctionner le moteur avec l'étrangleur en position tirée.

5. Ignition Switch

The ignition switch controls the power for the machine. To turn the machine on, rotate the key clockwise while holding waste pump out switch to the override position until the engine starts. When machine is running let off the override switch and the engine will continue to run. To turn power off, rotate key counter clockwise to stop position, engine will then stop.

6. Throttle

The throttle cable is used to set the speed of the engine (rpm). The engine speed (rpm) may be increased by releasing the collar lock, pushing in the red button on the end of the handle, and pulling the handle straight out. Engine speed may be changed in smaller increments by rotating the throttle handle clockwise or counter-clockwise. The collar lock can be tightened to prevent the throttle from slipping and changing the engine speed.

7. Hour Meter

The hour meter records the number of hours the unit has run. This serves as a time recorder for servicing the machine.

8. Circuit Breakers

These serve to protect the circuits from electrical spikes and over loads and protects wires from damage.

9. Solution Pressure Regulator

The pressure regulator sets the pressure of the solution system. This spring loaded valve can be adjusted up or down. The pressure is increased by turning the valve clockwise, or reduced by turning the valve counter clockwise. (This valve must be maintained in accordance with this manuals maintenance table.)

10. Lubrication Cup

The lubrication cup allows lubricant spray to reach the vacuum blower.

11. Solution Temperature Control Valve

This valve allows the operator to control the solution temperature by bypassing hot water to the waste tank, for low temperature cleaning such as upholstery. Turning the valve counter clockwise opens the valve. Turning clockwise closes the valve and has the effect of stopping water from bypassing.

12. Chemical Check Valve

The chemical check valve allows chemicals to enter the system and travel in a singular direction to the wand. The chemical check valve prevents chemicals from traveling upstream into the solution system of the unit.

13. Solution Screen

The solution screen is located on the front of the machine. The function of this screen is to trap foreign particles from exiting the machine and plugging the orifices of the cleaning tool.

14. Solution Outlet

The solution outlet is the connecting point for the high pressure solution hoses. This outlet is a quick disconnect that allows hoses to be plugged into the unit.

15. Exhaust

Exhaust fumes contain carbon monoxide which is an odorless and deadly poison that can cause severe injury or fatality. DO NOT run this unit in an enclosed area. DO NOT operate this unit where the exhaust may enter any building doorway, window, vent, or opening of any type

16. Water Inlet

This quick connect allows the water supply hose to be connected to the unit.

17. Vacuum Inlets

The vacuum inlets serve as the connecting point for vacuum hoses.

18. Flow Meter

The flow meter is a gauge to indicate how much liquid chemical is being introduced in the water system. The quantity can be increased by turning the chemical flow knob counter clockwise.

19. Chemical Prime Control Valve

This valve allows the chemical to circulate through the chemical system with little or no restriction. It also purges out air that may be trapped in the lines and cavities of the chemical pump. By turning the valve clockwise the injection system is enabled.

20. Chemical Metering Valve

The chemical metering valve regulates the amount of chemical that is injected into the system. Clockwise rotation of the knob closes the valve. Counter clockwise rotation opens the valve, allowing more chemical to enter the system.

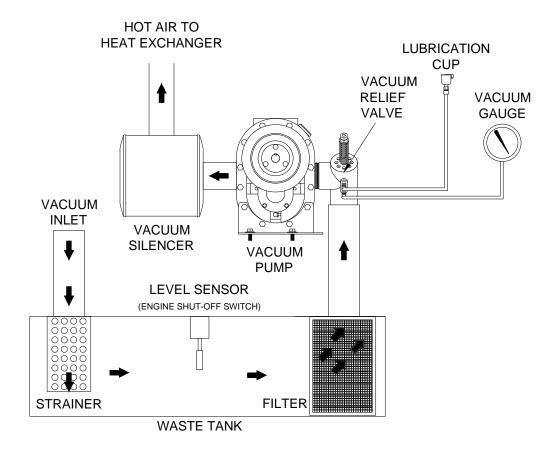
Vacuum System

The engine turning the vacuum pump generates vacuum. The air is channeled in one side of the vacuum pump, compressed and discharged on the opposite side, creating airflow.

The movement of air is used to do the work necessary for the extraction process. A vacuum nozzle applied to the carpet surface removes moisture, dirt and spent chemicals. These elements are conveyed back to a separating tank utilizing hoses and the force of air. Particles of moisture and dirt are separated in the vacuum tank using a series of changes in direction and velocity. The air is then filtered and rushes into the vacuum pump.

The vacuum pump compresses and heats the incoming air. The hot discharged air is forced down stream into a silencer for noise abatement. After exiting the silencer, this hot air is mixed with hot air exhaust gases from the engine. This mixture of hot air and gases are then forced through 2 radiators serving as heat collectors. Heat from the engine and vacuum pump is then transferred into the plumbing system raising the water temperature for better cleaning.

The vacuum pump speed is factory set to maximize vacuum pressure and provide sustained system life. Do not alter the vacuum speed outside the recommended range shown in the Technical Specifications section.



AWARNING:

Always wear hearing protection and proper personal protection equipment when operating unit.

A AVERTISSEMENT:

Toujours porter une protection de l'ouïe et de l'équipement de protection individuelle lors de l'utilisation de cet appareil.

Water Pumping and Heat Transfer System

Cold water enters the console through the water inlet. When the water box is full the valve will automatically shut off.

Water then flows from the water box, through the strainer, into the solution pump. The water is pumped to the pressure regulator manifold, which provides and maintains the desired pressure setting.

The pressure regulator manifold includes a pulse hose, which helps reduce pressure spikes from the pump.

A certain amount of water is by-passed from the pressure regulator due to over pumping capacity of the solution pump. Water that is not called for in the cleaning process is channeled through a copper heater core in the front of the heat exchanger box. This bypass water circulates several times through the heater core pre-warming the water.

The gases coming from the vacuum pump and the engine exhaust are forced through the second heater core creating the hottest area of the heat exchanger box, and increasing the heat transfer to the circulating water.

The hot water passes to the solution outlet manifold where cleaning chemicals are injected from the chemical pulse pump. This manifold serves as a connecting point for the high-pressure hoses. Also a check valve is located in this outlet manifold prohibiting chemicals from backing up into the system.

The cleaning solution then passes through highpressure solution hoses and is distributed by the cleaning tool to a surface that is being cleaned, completing the water pumping and heating cycle of the cleaning unit.

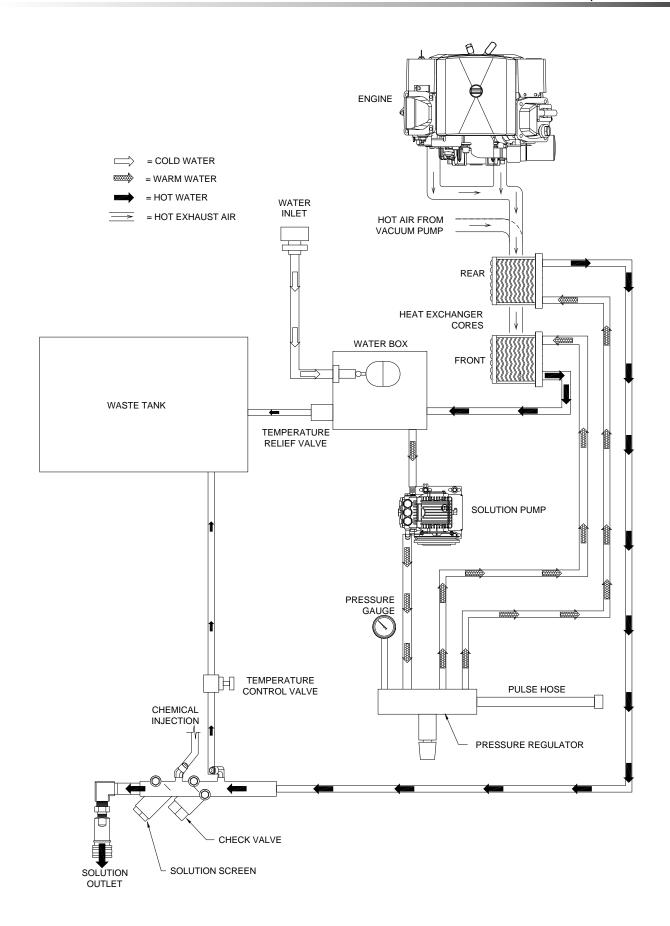
Heat Exchanger

The water temperature in the plumbing system is raised for better cleaning. This happens in the heat exchanger. The heat exchanger is made up of two stages. These two stages are the high stage, and the pre-warming stage.

The vacuum pump heats incoming air as it is compressed. The rear core receives its heat from the mixing of the engine exhaust and the vacuum pump exhaust. This mixture of hot air and gases is then forced through the rear core and on through the front heat exchanger core.

This core becomes extremely hot and should not be touched while the machine is in operation. Allow the machine to cool down completely before attempting to service this area.

The front core continues to extract heat from the mixed gases; but, this heat is used to pre-heat the water box as a preliminary hot water reservoir.



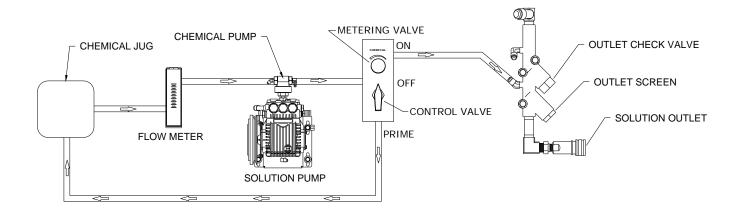
Chemical Injection System

The chemical injection system is unique in that it utilizes the pressure spikes generated by the high pressure solution pump to move chemical into the main solution stream. The high pressure spikes move the diaphragm in the chemical pulse pump forcing small amounts of liquid chemical to be moved in a single direction of flow with the aid of two check valves.

The chemical is drawn from the container, and through the flow meter, which indicates rate of flow. The chemical then moves to the chemical pulse pump where it is pressurized. After being pressurized by the chemical pulse pump the chemicals are fed to the control valve which directs the chemical either into a bypass loop to purge air from the system or in to the solution metering valve.

The metering valve creates an orifice allowing the correct amount of chemical to enter the outlet manifold. The outlet manifold assembly is complete with a check valve that will not allow the chemicals to travel upstream into the plumbing system of the unit.

The chemicals are then mixed with hot pressurized water to make a solution for the chosen cleaning application.



Pre-Run Inspection / Setup

NOTE: Operation of this unit is simple. However, only trained personnel should proceed.

AWARNING:

Operate this unit and equipment only in a well-ventilated area. Exhaust fumes contain carbon monoxide, which is an odorless and deadly poison that can cause severe injury or fatality. DO NOT operate this unit where the exhaust may enter any building doorway, window, vent, or opening of any type.

A AVERTISSEMENT:

Utiliser cet appareil et cet équipement uniquement dans un endroit bien ventilé. Les gaz d'échappement contiennent du monoxyde de carbone qui est un gaz inodore et mortel pouvant causer des blessures graves ou entraîner la mort. NE PAS faire fonctionner cet appareil dans un endroit clos. NE PAS utiliser cet appareil dans un endroit où les gaz d'échappement risquent de pénétrer dans une entrée de porte, une fenêtre, un évent ou toute ouverture d'un édifice.

Check For Adequate Fuel

Check the fuel tank to be certain there is adequate fuel to complete the job. This unit uses approximately .75 – 1.00 gallons of fuel per hour, depending on the speed setting.

Remove Tools From Vehicle

Remove any tools or hoses from the van, which you will require.

Water Supply Connection

NOTE: Before connecting your water hose to the supply faucet, flush out the faucet until the water is free of any debris. Flush out any debris which may be in your water inlet hose.

 Connect the water supply hose to the water inlet quick-connect on the right side panel of the console. Connect the hose to the water supply faucet.

NOTE: Never use your waste pump outlet hose as a water inlet hose. Use only clean hoses for water inlet.

Turn the water supply faucet on. The water will fill the water box.

ACAUTION:

Don't run the solution pump dry, damage may occur and void the warranty.

In the event the pump is run dry, allow the pump to cool down to ambient temperature before reintroducing water. Otherwise major damage may occur and void the warranty.

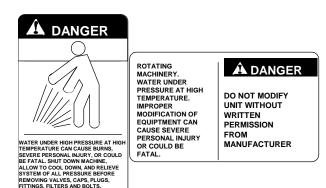
A ATTENTION:

Ne pas laisser la pompe à solution fonctionner à sec, cela risquerait d'entraîner des dommages et d'annuler la garantie.

Si la pompe venait qu'à fonctionner à sec, laisser refroidir la pompe à température ambiante avant de réintroduire de l'eau. Sinon, cela risquerait d'entraîner des dommages et d'annuler la garantie.

High Pressure Solution Hose

Before starting the unit, connect the high pressure solution hose to the outlet connection at the front of the unit. Connect the cleaning tool to the pressure hose.



Vacuum Hose

Connect the vacuum hose to the vacuum inlet connection at the front of the unit. Connect the other end of the vacuum hose to the cleaning tool.

Filters

Ensure all filters on machine and in waste tank are free of debris.

Priming the Chemical Pump

- Fill chemical container and inspect chemical strainer.
- Insert chemical inlet and prime tubing into chemical container.
- 3. Pull out engine choke, turn waste pumpout switch to override and turn ignition key to start.
- 4. Push in engine choke after engine has started.
- 5. Set throttle to idle position.
- Turn chemical control valve to prime and allow chemical to circulate. After all air bubbles have been removed from chemical tubing, turn the valve to the horizontal (off) position.
- 7. Turn the chemical control valve to run. use the chemical metering valve to set the chemical flow to the desired flow rate while observing the flow meter indicator. To accurately set the chemical flow, pull the trigger on the cleaning tool while adjusting the flow rate.
- 8. Set throttle to maximum position with vacuum port blocked off for quick unit heat up.

NOTE: Do not run the machine with the port blocked for more than 2 minutes to avoid overheating.

Once you have completed priming the chemical pump, proceed with the cleaning operation. Your unit should be in the correct throttle position for your cleaning operation or extracting.

AWARNING:

Always dispose of waste in accordance with Local, State, and Federal laws.

A AVERTISSEMENT:

Toujours éliminer les résidus conformément aux lois locales, provinciales et fédérales.

Waste Pump (Optional)

- If your unit is equipped with an automatic waste pump, connect one end of a garden hose to the pump-out connection and the other end to an appropriate waste disposal.
- Turn the pump-out switch on the control panel to the ON position. The waste pump will operate automatically throughout the cleaning operation.

We recommend that you use a 3/4" I.D. water hose as a waste pump outlet hose. DO NOT use a hose smaller than 5/8" I.D.

NEVER use your automatic waste pump outlet hose as a water inlet hose.

Cleaning

Observe the following guidelines, while cleaning:

- Before proceeding make sure the spray tips are functioning properly.
- To check, hold the wand about one foot above the surface to be cleaned and open the wand valve. A full spray should be observed from the cleaning spray tips.
- b. If the spray tips are not showing a full spray pattern, adjust for proper pattern, clean, or replace spray tips, if required.
- 2. Normally chemical is applied on the push stoke of the wand when cleaning and vacuuming is done on the pull stroke. For heavily soiled carpets the wand may be used in a scrubbing manner, applying chemical in both push and pull strokes. Always finish up an area with a vacuum stroke.
- 3. When cleaning, keep the working opening (mouth) flat on the surface being cleaned. Keep the wand moving when the valve is open.
- 4. The unit will automatically shut-down when the waste tank is full. This will prevent water being drawn into the vacuum pump. If shut-down occurs, empty the waste tank before proceeding. If shut-down occurs due to foam created by chemicals used, add Prochem defoamer.

Upholstery Cleaning

Upholstery tool, (See Options Section)

- To protect fabrics, reduce solution temperature as needed by opening the solution temperature control valve on the lower front panel. Engine speed may also be reduced slightly to reduce heat and vacuum.
- 2. Use one (1) spray tip in tool.

Shutdown and Daily Maintenance

- 1. Close chemical metering valve.
- Allow the unit to run for 2 minutes with the vacuum hose disconnected to remove moisture. Spray water displacing lubricant into the vacuum lubrication cup. This will prevent corrosion due to moisture.
- Set engine throttle at idle position and allow the water temperature to cool down, utilizing the temperature control valve in the open position to bleed off residual hot water left in the system.
- Close temperature control valve and turn off ignition switch.
- 5. Disconnect all hoses and tools.
- 6. Drain waste tank and rinse with clean water.

Freezing Protection

ACAUTION:

If the unit is exposed to freezing weather the water in the unit may freeze, causing SERIOUS DAMAGE to the unit. To avoid this, the following is recommended during the cold weather season.

AATTENTION:

Si l'appareil est exposé au gel, l'eau dans l'appareil risque de geler, causant ainsi des DOMMAGES MAJEURS à l'appareil. Pour éviter une telle situation, il est recommandé de faire ce qui suit durant la saison froide.

When the unit is not in use, always park it in a heated building.

While in operation, avoid long shutdowns as the unit provides heat while running. Shut it down just prior to leaving for the next job.

If a heated building is not available, we recommend that you winterize the unit with anti-freeze. At present, it is only possible to winterize units, which do not have an auxiliary water tank. Units with auxiliary water tanks must be stored in a heated building when not in use.

Overheating Protection

Air cooled engines rely on the flow of air over the engine for cooling operations. Ensure that there is sufficient air flow in the van. **Never** operate the unit with all the vehicle doors closed and no alternative ventilation system.

This unit must be operated with the vehicle or trailer doors open in order to ensure adequate engine ventilation.

Winterizing the Unit

- Shut off the water supply. Disconnect the water inlet hose from the front of your console.
- 2. Connect all high pressure solution hoses and tools that may have water in them.
- 3. Start the unit. Open the tool valve until water pressure drops and water stops flowing.
- 4. Turn off the engine.
- 5. Fill the water box with approximately two gallons of 100% glycol base anti-freeze.
- 6. Start the unit.
- Open the tool valve until anti-freeze begins to come out of the tool. Recover ALL anti-freeze that comes out of the tools into an approved container. We strongly recommend that you re-cycle and reuse the anti-freeze.

Repeat this procedure with all the remaining tools. After all tools and pressure hoses have been filled with anti-freeze, disconnect and store them.

- 8. Turn off the unit. Attach the winterizing loop hose with attachment, Part #86260700, to the solution outlet connection and the water inlet connection.
- 9. Start the unit and allow it to run for approximately 3 minutes with the winterizing loop hose attached.
- Open temperature control valve and allow antifreeze to flow to waste tank.
- 11. Prime the chemical system with 50/50 anti-freeze/ water mix. Insert the chemical inlet and prime discharge tubes into the anti-freeze container. Turn the chemical valve to PRIME until anti-freeze begins to flow out of the prime hose.
- 12. Turn the chemical valve to the open position, making certain that the flow meter indicates flow and that all anti-freeze drains out of the chemical hose into an approved container, after 30 seconds, turn off both valves.

Removing Anti-Freeze From the Unit

- Connect one end of the winterizing loop hose to the solution outlet connection. Place the other end of the loop hose, without the attachment, into an approved container.
- 2. Start the unit. Allow the anti-freeze to flow into the container until flow stops.
- 3. Fill the water box with fresh water and repeat step #2.
- 4. Connect the water inlet hose to the water inlet connection on the console. Turn the water supply on.
- 5. Connect all solution hoses and any tools which require purging of anti-freeze to the solution outlet connection.
- 6. Open the tool valves and drain the anti-freeze into an approved container until the flow is clear and all anti-freeze is purged from the tools and hoses.

- 7. Place the chemical prime hose into the approved container. Submerge the chemical inlet hose in water. Turn the chemical valve to the PRIME position until clear water comes through the prime hose, and then remove the prime hose from the container.
- 8. Turn the chemical valve to the ON (CHEMICAL) position. This will allow water to flow into the other side of the system.

Once all of the anti-freeze is removed, the unit is ready to use.

Eventually, the anti-freeze in your storage container will become diluted with water. If the anti-freeze level drops below 50% of the total, dispose of it and start with fresh 100% anti-freeze.

AWARNING:

When disposing of used anti-freeze, observe local laws and regulations. Do not drain onto the ground or into storm drainage systems.

A AVERTISSEMENT:

Lors de l'élimination de l'antigel usé, respecter toutes les lois et tous les règlements locaux. Ne pas vider sur le sol ou dans des réseaux de collecte des eaux pluviales.

Service Schedule

Engine	Daily	Check engine oil level. *** Fill to proper level (Do not overfill)
Vacuum Pump	Daily	Spray water displacing lubricant in lubrication cup at front of console for 5 sec.
Solution Pump	Daily	Check oil level.** Fill to proper level (Do not overfill)
Chemical Inlet Tube Strainer	Daily	Check strainer for blockage, remove any debris
Vacuum Inlet Filter (In Waste Tank)	Daily	Clean filter, inspect, replace if damaged
Vacuum Hoses	Daily	Wash out with clean water
Automatic Waste Pump	Daily	Inspect and remove any debris or sediment
Vacuum Pump	Weekly*	Check oil level. Fill to proper level
Water Box Float Valve	Weekly	Check for proper seating and shut-off
Solution Pump Inlet Strainer	Weekly*	Check for debris and clean
Battery	Weekly*	Check for proper fluid level. Fill with distilled water only
Solution Outlet Screen	Weekly*	Inspect and remove any debris or blockage
High Pressure Hoses	25 hrs	Inspect for damage or impending damage
Pressure Regulator	50 hrs	Lubricate o-rings
Pressure Regulator	50 hrs	Lubricate plug behind spring
Engine	50 hrs	Change engine oil***
Engine	100 hrs	Change oil filter***
Battery	100 hrs*	Clean battery terminals
Automatic Waste Pumpout	100 hrs	Clean inlet and outlet ports
Belts/pulleys	100 hrs	Check belt wear and tension. Check pulley alignment.
Water Box Float Valve Seal	200 hrs.	Inspect and replace seal as needed
Engine	200 hrs	Service air cleaner elements*
Fuel Pump	200 hrs	Check hose connections
Fuel Hose, Fuel Fittings	200 hrs	Check connections and hose wear
Engine	200 hrs	Check spark plugs for carbon deposits and proper gap
Chemical Valves	200 hrs	Inspect and/or adjust packing nuts
Temperature Control Valve	200 hrs	Inspect and/or adjust packing nuts

Vacuum pump	250 hrs	Lubricate bearing on pulley end with grease
Vacuum Exhaust Heat Exchanger	500 hrs	Inspect cores and remove debris.
Solution Pump	500 hrs	Change oil**
Pulley Set Screws & Hub Cap Screws	500 hrs	Check for proper torque values. Re-torque, if
		required****
Drive Pulley	500 hrs	Inspect, clean and check for pulley groove wear****
Drive Pulley	500 hrs	Check pulley alignment****
Drive Belts	500 hrs	Inspect and clean****
Drive Belts	500 hrs	Check belt tension****
Chemical Pump & Check Valves	500 hrs	Replace diaphragm, plastic disk and check valves.
Vacuum Lubrication Lines	500 hrs	Check for line obstructions. Replace tubing if cracked or
		damaged
Engine	500 hrs	Replace in-line fuel filter on engine.
Engine	1000 hrs	Replace spark plugs.
Check Valve (Solution Outlet)	1000 hrs	Inspect, clean, and repair, if needed.
Waste Tank Shut-off Float Switch	Monthly	Check for debris hindering movement
Vacuum pump	Yearly	Drain and replace oil*****
Waste Tank Filters/Strainers	Yearly	Check for damage and blockage. Replace if needed.
Engine	Yearly	Replace air cleaner element
Engine	3 years	Replace ignition wires.

^{*} Or as often as required

^{**} Change solution pump crankcase oil after the first 50 hours

^{***}Change engine crankcase oil and filter after the first 8 hours

^{****}Perform drive belt, pulley and hub maintenance after the first 25 hours of operation, and then again at 100 hours

^{******}Using AEON PD-XD, drain and change blower every 1000 hours or once per year, whichever comes first.

Key Checkpoints

NOTE: Initiation of a planned preventative maintenance program will assure that your unit has optimum performance, a long operating life, and a minimal amount of "down" time.

External Fuel Pump Maintenance

The power plant for the unit receives fuel from the main fuel tank of your van/truck. An external fuel pump that provides this fuel is located on the underside of the van/truck. Loose fittings and hose connections will cause your unit to perform poorly. Follow the recommended fuel pump maintenance in the Maintenance Schedule in this manual. Refer any additional questions to your dealer.

Chemical Supply System Maintenance

The chemical supply system pulls chemicals from your chemical bottle utilizing a pump that works off the water pump pulsing. Any clogged filters or loose connections will result in a chemical supply system malfunction or a malfunction at the cleaning tool. Maintenance of the solution outlet check valve and screen are vital to effective cleaning operation and minimal unit downtime. Additionally, the hoses related to supplying water and chemical to the outlet manifold are under high pressures and experience thermal expansion and contraction. Periodic inspections of these hoses for tears, cracks, and failing connectors are necessary to avoid unwanted leaks. To keep your chemical system functioning properly, follow the chemical pump and solution outlet maintenance in the Maintenance Schedule in this manual. Refer any additional questions to your dealer.

Heat Exchanger System Maintenance

The heat exchange system in your unit transfers energy from the engine's exhaust and blower discharge air to the solution supply system. The heat transfer of this system is highly dependent on the surface area contact in the heat exchanger cores located in the heat exchanger box. This surface area amount is adversely minimized when the supplied water is not softened to recommended levels. Hard water will result in scaling on the inside walls of the heat exchanger tubes. It is recommended that you use a manufacturer approved water softener to avoid premature heat exchanger core failure. Contact your local dealer for advice on the water hardness levels in your area.

Additionally, the heat exchanger tubes are very sensitive to freezing conditions. As the water freezes during cold conditions, it expands in the heat exchanger tubes and causes damage. Often the tubes are cracked and require the replacement of the heat exchanger core. Refer to the Freeze Protection instructions section in this manual. Refer any additional questions to your dealer.

Vacuum Pump Maintenance

(Refer to pump manufacturer's manual for specific maintenance instructions)

The total function of the unit is based around the performance of the vacuum pump. Heat transfer used to raise the temperature of the solution is gained from the air drawn by the vacuum pump and solution is removed from the carpet with the vacuum suction of the vacuum pump. General maintenance actions for the vacuum pump as listed in this manual are vital to prolonged vacuum pump operations. Daily lubrication of the pump is required to avoid seizure of the system. Also, waste tank filters and strainers must be maintained to prevent unwanted debris from entering the vacuum pump.

AWARNING:

DO NOT service this unit while it is running. The high-speed mechanical parts as well as high temperature components may result in severe injury, severed limbs, or fatality.

A AVERTISSEMENT:

NE PAS effectuer l'entretien de cet appareil pendant qu'il est en marche. Les pièces mécaniques à haute vitesse de même que les composants à haute température pourraient causer des blessures graves, des amputations ou la mort.

NOTE: Use the hour meter as a guide for coordinating the maintenance schedule.

Engine

(Refer to engine manufacturer's manual for specific instructions)

- Check the engine oil level daily, when in use.
 Make certain that proper oil level is maintained.

 NEVER overfill.
- Change the break-in oil and filter after the first 8
 hours of operation. Thereafter, change oil every 50
 hours and oil filter every 100 hours of operation.
 USE ONLY ENGINE MANUFACTURER'S
 BRAND OIL FILTERS. ANY OTHER TYPE OIL
 FILTER WILL VOID YOUR ENGINE WARRANTY.
 Torque drain plug to 10 ft lbs.

Oil Recommendation:

See "ENGINE OIL REQUIREMENTS" in Operations section.

NOTE: Using other than service class SG, SH, SJ or higher oil or extending oil change intervals longer than recommended can cause engine damage.

 Check the spark plugs every 200 hours. Clean if necessary. Replace the spark plugs every 1000 hours.

NOTE: Never sandblast spark plugs. Spark plugs should be cleaned by scraping or wire brushing.

- 4. Replace the air cleaner element every year.
- 5. Replace the in-line gas filter every 500 hrs.

NOTE: For additional engine service information, obtain the engine manufacturer's manual from any authorized service center. If service or repair is required, contact an authorized engine manufacturer's service center. You will need to provide the serial number of the engine.

Engine oil capacity including filter is approximately 46 - 48 ounces.

Vacuum Pump

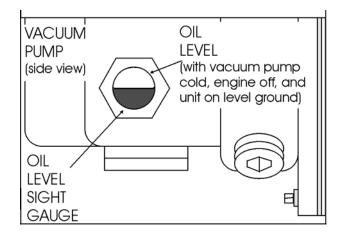
Refer to the Vacuum Pump Operation and Service Manual for specific instructions.

Lubrication: We recommend that you use AEON PD-XD synthetic lubricant in the gear end of the vacuum pump for all operating temperatures. AEON PD-XD synthetic lubricant is formulated especially for positive displacement blower service to provide maximum blower protection at any temperature. One filling of AEON PD-XD synthetic lubricant will last a many times longer than a premium mineral oil.

NOTE: AEON PD-XD synthetic lubricant is the oil in the vacuum pump. Topping off or adding petroleum oil to synthetic oil is NOT recommended.

- Check the oil level daily to assure the proper level. PROPER LEVEL cannot be overemphasized. Too little oil will ruin bearings and gears. Too much oil will cause overheating. Use the illustration as a guide when adding oil.
- To prevent rust from building up inside the vacuum pump (if moisture exists) we have provided a lubrication cup on the front of the unit.

First run the unit at least 1 minute to remove any moisture from the vacuum pump. Next, fill the lubrication cup with water displacing lubricant, for 5 seconds while the unit is running and the vacuum inlets are sealed. Do this at the end of each working day.



 Drain, flush and replace oil every 1000 hours or yearly, whichever comes first. Change oil more frequently if inspection so indicates.

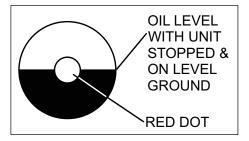
Oil capacity is approximately 3.4 ounces in gear end.

- Vacuum pump lubrication is vital to performance of our pump. Failure to follow the maintenance schedule in the "Maintenance Schedule" can lead to permanent damage to your blower.
 - Refer to the Vacuum Pump Operation and Service Manual for specific instructions.
- Bearings on the drive end of the blower require grease lubrication every 250 hours of operation.

Solution Pump

Refer to the Solution Pump Operation and Service Manual for specific instructions.

- Check the crankcase oil level daily to assure the proper level. Use the illustration as a guide when checking the oil level. If the level has dropped, check for the source of leakage and repair.
- 2. Use the provided dipstick. Remove red filler cap and insert dipstick. Oil level should be between marks on the dipstick or use a mirror and refer to the illustration.



 Change the crankcase oil with Cat Pump Crankcase Oil, after the first 50 hours of operation.
 Drain and refill the crankcase oil with Cat Pump Crankcase Oil every 500 hours thereafter.

Oil capacity is approximately 11.8 ounces.

4. Other Cat approved oil equivalents are: Mobil DTE 16, Amoco Rykow 68, and Shell Tellus T68.

Vacuum Inlet Filter (in Waste Tank)

1. The vacuum filter in the waste tank should be removed and cleaned **daily**. If this is done, the filter will last for a long period of time.

Vacuum Relief Valve

The vacuum should be set at 13" Hg. Connect a 50 foot vacuum hose and a 50 foot solution line to the wand. Start the truck mount and bring the engine up to maximum operating speed. Once at maximum speed, place the wand head to the floor and wet the carpet. Seal the wand head to the wet floor and check the vacuum gauge reading. If adjustment is required, shut the unit down and adjust the vacuum relief valve locking nut tension. Start your unit and reread the vacuum gauge. Repeat process until gauge read 13" Hg.

Vacuum Pump Drive Belts

To tighten the vacuum pump belts:

- 1. Loosen the four nuts which hold the vacuum pump mount in place.
- 2. Turn the adjusting bolts until the proper belt tension is achieved (1/2" deflection in the center of the belt, halfway between the pulleys).

NOTE: When adjusting belt tension, make certain that the engine shaft and vacuum pump shaft remain parallel, and the belt tension is equal throughout the belt width.

- 3. After adjusting, re-tighten the four nuts which hold the vacuum pump mount in position. Check belt alignment with straight-edge.
- Check for pulley groove wear, clean belts and pulley grooves, check for worn belts, proper belt tension, and pulley alignment after the first 25 hours and then again at 100 hours.

Solution Pump Drive Belts

To tighten the solution pump belt:

- Loosen the bolts which hold the solution pump mount to base.
- Adjust the position of the belt tension adjusting bolt until the proper belt tension is achieved. (1/2" deflection in the center of the belt, halfway between the pulleys).
- 3. While checking the alignment, tighten the nuts which hold the solution pump mount to base.
- 4. Check belt and pulley every 100 hrs.

Float Valve (Water Box)

Check the float valve weekly for proper operation.
 If overfilling is a problem, check the plunger for a proper seal. Replace tip on plunger if needed.

NOTE: If the float ball has any water inside it must be replaced.

ACAUTION:

When replacing float ball, DO NOT over- tighten, as the rod can puncture the ball. Make sure to tighten the nuts on the rod.

AATTENTION:

Au moment de remplacer le flotteur, NE PAS trop serrer, car la tige pourrait perforer le flotteur. S'assurer de serrer les écrous sur la tige.

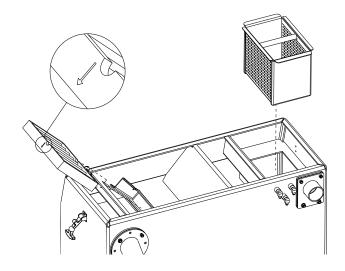
Disassemble the valve and check the piston and seat for damage, replace if needed. See the "Illustrated Parts Listing" for a parts break-down.

Waste Tank Float Valve

The float valve in the waste tank shuts the unit down once the waste tank becomes full. Debris can collect around the hinge of the float valve. Check the float valve for debris at least once a month.

Waste Tank Strainer Basket

The strainer basket located inside the waste tank should be removed and cleaned whenever it is full of debris. This should be done on at the end of each job.



Waste Tank Vacuum Inlet Filter

The Vacuum Inlet Filter located inside the waste tank should be removed, cleaned and inspected at the beginning of each day. When replacing in tank ensure that flow indicating arrow is pointing down.

Solution Screen (Outlet)

Inspect the solution screen after the first week of running the unit by unscrewing the screen and remove any accumulated debris. Inspect the screen again at 2 and 4 weeks.

The solution screen should then be inspected every month. However, if the screen has a frequent build-up of debris it should be inspected and cleaned more often.

Check Valve (Outlet)

Inspect the check valve when rebuilding the chemical pump or as needed. Remove and disassemble the check valve. Check the Teflon seat for debris or abnormal wear. Clean or replace seat if needed.

NOTE: Improper seating of the check valve poppet, damaged spring, or o-rings will cause poor operation of the chemical system.

For the procedure, see the "General Service Adjustments" section in this manual for details.

Chemical Pump

Rebuild the chemical pump **every 500 hours**. This involves changing the diaphragm, plastic disk and check valves.

For the procedure, see the "General Service Adjustments" section in this manual for details.

NOTE: Inspect chemical inlet tube strainer daily.

Chemical and Temperature Control Valves

200 hours. Keeping these valve packings properly adjusted will eliminate possible leakage from the valve stems and add to overall valve life.

For the procedure, see the "General Service Adjustments" section in this manual for details.

Pressure Regulator

Lubricate the o-rings and bullet **every 50 hours.** Use oring lubricant Part #86265430.

For the procedure, see the "General Service Adjustments" section in this manual for details.

Vacuum Hoses

To assure maximum hose life, we recommend that the hoses be washed out with clean water at the end of each **working day**.

High Pressure Solution Hoses

Inspect your high pressure solution hoses for wear after the **first 100 hours** of use. Inspect **every 25 hours thereafter**. If hoses show any signs of damage or impending rupture, **replace the hose**.

AWARNING:

DO NOT attempt to repair high pressure hoses! Repairing high pressure solution hoses may result in severe burns and serious injury!

A AVERTISSEMENT:

NE PAS tenter de réparer les flexibles à solution à haute pression! Tenter de réparer des flexibles à solution à haute pression pourrait causer des brûlures et des blessures graves!

All high pressure solution hoses must be rated for 3000 PSI at 250°F. Thermoplastic hoses do not meet these specifications and should not be used. Severe burns and injury may result if the hoses do not meet these requirements.

Optional Waste Pump-Out

At the end of each work day, make certain that you remove any debris or sediment which may be inside the waste pump by pumping fresh water through the pump.

General Service Adjustments

AWARNING:

USE EXTREME CAUTION while servicing while machine is running. The high-speed mechanical parts as well as high temperature components may result in severe injury, severed limbs, or fatality.

A AVERTISSEMENT:

FAIRE PREUVE DE LA PLUS GRANDE PRUDENCE Les pièces mécaniques à haute vitesse de même que les composants à haute température pourrait causer des blessures graves, des amputations ou la mort.

Engine Speed

This unit uses a factory installed Briggs & Stratton engine governor. The engine speed is adjusted by pulling the throttle out to maximum travel for high speed operation. For lower temperature or vacuum setting, rotate knob clockwise two turns or as needed to obtain desired temperature and vacuum settings. Pushed in, the engine is at idle speed (1400 rpm). With throttle pulled out, engine operates at maximum rpm (3200).

A CAUTION:

DO NOT attempt to adjust without a tachometer and NEVER adjust the engine to exceed stated maximum RPM (Full Load). Permanent damage may occur.

A ATTENTION:

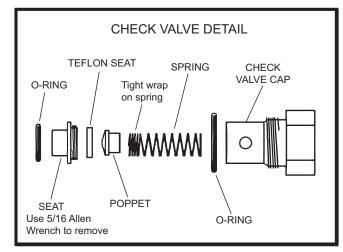
NE PAS tenter d'effectuer un réglage sans tachymètre et ne JAMAIS régler le moteur de façon à excéder le nombre de tours par minutes indiqué (pleine charge). Cela pourrait cause des dommages permanents.

Check Valve (Solution Outlet)

Inspect the check valve whenever doing service on the chemical pump or if flow problems occur in the chemical system:

- Remove the check valve. Be sure the small o-ring for the seat comes out with the check valve.
- 2. Remove the seat, using a 5/16" Allen wrench.
- Check the Teflon seat for debris or wear. Clean or replace Teflon seat if needed.
- 4. Clean the poppet and spring, inspect for wear or damage, and replace as needed.

 Re-assemble the check valve. Start the seat by hand, tighten using a 5/16" Allen wrench. **DO NOT** over-tighten seat.



NOTE: Improper seating of the check valve poppet, damaged spring or o-rings will cause poor operation of the chemical system.

6. Lubricate the o-rings with o-ring lubricant Part #86255430, PRV NO. 05-008035 and reinstall.

Water Box

- Check inlet strainer for debris and blockage. A blocked strainer could damage the solution pump if water flow is restricted.
- Inspect water box float valve for freedom of movement and water leaking past valve.

Chemical Pump

The only repairs which the chemical pump may require is the replacement of the diaphragm, plastic disk or check valves. To replace the diaphragm and plastic disk unscrew the cover from the body. When replacing the diaphragm, lubricate the outer edges of the diaphragm with o-ring lubricant Part #86265430, PRV NO. 05-008035 and reassemble. To replace the check valves, unscrew the check valve caps. Replace the check valves and reassemble, using new o-rings.

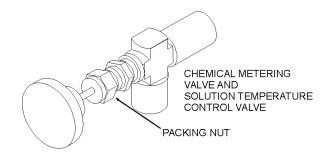
DO NOT attempt to re-use o-rings once the check valves have been removed. See the "Illustrated Parts Listing" for a parts break-down on the chemical pump.

Solution and Vacuum Pump Drive Belts

Use only exact replacement for system drive belts. Use only exact manufacturer and models for replacements.

Packing Nut Adjustments For Chemical Valves

Examine the packing nut on all chemical valves for proper tension every 200 hours. When turning the knob, there should be a small amount of resistance. If not, slightly tighten the packing nut. DO NOT over tighten. Keeping the valve packings properly adjusted will eliminate possible leakage from the valve stem and add to overall valve life.



Pressure Regulator

The pressure regulator serves to maintain water pressure at a preset point and to bypass water back to the water box.

To adjust:

- With your unit running, close the cleaning tool valve. Check the pressure gauge. Open the tool valve. We recommend setting the pressure regulator so that the pressure gauge reads 450 PSI with the tool valve open.
 - When the tool valve is opened, there is an approximate drop of 50 PSI in pressure. If there is a pressure drop greater than 100 PSI, it may be necessary to lubricate the o-ring in the pressure regulator.
- If the pressure regulator requires adjustment, loosen the locking nut, then turn the adjusting body (cap) (while observing the pressure gauge on the control panel) until the desired pressure is obtained. Retighten the locking nut.

AWARNING:

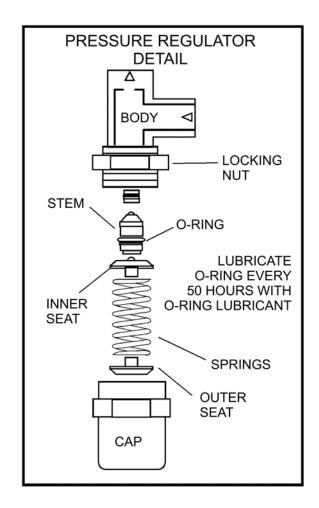
DO NOT loosen the adjusting body (cap) all the way (counterclockwise) or remove it while the unit is running.

A AVERTISSEMENT:

NE PAS desserrer complètement le boîtier de réglage (capuchon) (dans le sens contraire des aiguilles d'une montre) ou le retirer alors que l'appareil est en marche.

We recommend that you lubricate the pressure regulator o-ring every 50 hours, or whenever required. If you do not, the stem may become seized due to inadequate lubrication. If this occurs:

- a. Shutdown the unit.
- b. Relieve all pressure from the water system.
- c. Remove the cap from the pressure regulator and remove the stem with long nose pliers.
- d. Clean and lubricate stem.
- e. Reassemble pressure regulator.



Troubleshooting

PROBLEM	CAUSE	SOLUTION
	Water supply is turned off or the float valve is stuck or improperly adjusted.	Turn the water supply on or up. Check for kinks in the water supply hose. Examine the float valve and adjust or replace.
	Solution pump inlet supply line is plugged or drawing air.	Examine the water inlet strainer inside the water box. Remove accumulated debris and replace if required. Check for suction leaks and loose clamps or fittings. Tighten any loose fittings or clamps. Replace any ruptured hose(s).
Loss of solution pump pressure.	Improper engine speed	Using a tachometer, check the engine speed. Full throttle engine speed is 3200 RPM. Idle engine speed is 1400 RPM. Refer to the "engine speed" section for instructions on how to re-adjust.
	Pressure regulator o-ring is dry.	Lubricate o-ring, using o-ring lubricant Part #86265430.
With the cleaning tool	Pressure regulator has worn o-ring	Check o-ring. If necessary, replace.
open, the solution pressure gauge reads below the normal operating pressure.	Pressure regulator is dirty, stuck open, or improperly adjusted.	Clean or repair regulator. Adjust to working pressure. Lubricate o-ring, using o-ring lubricant Part #86265430.
operating pressure.	Low pump volume. (Measure the amount of water being returned to the water box from the pressure regulator. It should fill a gallon container about every 17 seconds).	Examine the check valves, plunger cups, and cylinder head on the solution pump. Repair, whenever required (refer to the solution pump service manual).
	Defective solution pressure gauge.	Replace gauge
	Orifice (spray nozzle) in the cleaning tool is worn, defective, or wrong size.	Replace Nozzle or change nozzle size.
	Debris clogging water lines or water inlet disconnect.	Clean or replace as needed.
	Belts loose or broken	Re-tension or replace as needed.
	Loss of pump prime	Manually prime solution pump.
	Plugged orifice and/or screen in the cleaning tool.	Unplug or replace orifice and/or screen
Loss of solution volume at cleaning tool orifice.	Internal block between the pressure regulator manifold and the solution manifold, or the solution screen is clogged	Inspect all lines, remove accumulated debris which is blocking proper flow. Replace any defective hoses. Remove, inspect, and clean the solution screen. De-scale unit and install a water softener, if necessary.
	Outlet check valve is plugged	Examine the check valve, remove any debris
Solution gauge reads normal.	Defective quick-connect on one or more of the high pressure hoses.	Replace defective quick-connects(s) on high pressure hoses(s).
	Cleaning tool valve is malfunctioning.	Repair or replace valve.
	Hose inner lining is constricted.	Remove restriction or replace hose.
	Air leak in chemical supply line, priming valve or metering valve.	Check for air leaks. Replace faulty parts.

PROBLEM	CAUSE	SOLUTION
	Vacuum gauge is giving an improper reading.	Examine the tubing between the vacuum relief valve and the vacuum gauge and remove any blockage.
	Vacuum hose(s) is damaged, causing a suction leak.	Inspect hose(s), repair or replace.
	Waste tank gaskets not sealing properly, not positioned properly	Inspect the gaskets. Repair or replace gaskets as necessary. Re-position lid, inlet and outlet.
Loss of vacuum	Plugged vacuum hose or vacuum plumbing between vacuum inlet and strainer basket.	Unplug vacuum hose or inlet plumbing.
While cleaning, the vacuum is	Waste tank filter or strainer basket is plugged.	Clean or replace filter. Clean strainer basket.
not up to specification. Engine	Loose vacuum pump drive belts.	Tighten the drive belts
RPM is normal.	Waste tank drain valve is damaged or left open, causing a vacuum leak.	Close drain valve, if open. Remove the drain valve and, after inspecting, replace the defective components.
	Vacuum relief valve requires adjust- ment or has a vacuum leak due to damaged diaphragm.	Re-adjust the vacuum relief valve. If the vacuum does not increase, remove and inspect the relief valve diaphragm. If damaged, replace
	Vacuum exhaust heat exchangers are plugged with lint.	Remove and clean.
	Vacuum pump is worn out.	Replace the vacuum pump.
	Improper throttle adjustment.	Adjust throttle to set desired vacuum pressure.
Excessive Vacuum	Vacuum obstruction	Inspect hoses for obstructions.
	Vacuum relief valve requires adjust- ment.	Readjust the vacuum relief valve.
	Chemical pump is improperly primed.	Refer to chemical pump priming instructions.
	The strainer at the inlet end of the chemical inlet tube is clogged	Unclog the strainer. If damaged, replace.
	Suction leak in the inlet tube leading into the chemical pump.	Inspect inlet tubes and flow meter for air leaks or damage and replace, if required.
Loss of chemical	Chemical pump check valve(s) is clogged	Remove any debris from the chemical check valve(s). Replace chemical check valve(s) or seals, if necessary.
With the cleaning tool valve open, no chemical	Chemical prime/on-off valve or chemical metering valve is defective.	Replace valve(s).
	Chemical pump diaphragm is ruptured.	Disassemble the chemical pump and replace the damaged diaphragm and plastic disk.
	Defective cylinder in the solution pump.	Measure the pump volume. If the pump volume is less than normal, refer to "Loss of Pump Volume" in the Troubleshooting section in this manual.

Troubleshooting

PROBLEM	CAUSE	SOLUTION
	External leak in chemical piping	Tighten fittings. Re-apply thread sealant where required. If any fittings are damaged, replace.
Chemical flow meter indicates	Outlet check valve is full of debris or damaged, not allowing it to close properly	Close the chemical valve on the instrument panel. If the flow meter does not indicate flow, remove debris or replace check valve, if necessary.
flow with the tool valve closed	Chemical pump diaphragm is ruptured	Close the chemical valve on the instrument panel. If the flow meter still indicates flow, replace the chemical pump diaphragm and plastic disk.
	Internal leak in chemical valve causing continual flow through prime tube returning to container.	Tighten valve packing nut (see "General Service Adjustments" section in this manual). Replace valve, if necessary.
	Main circuit breaker on the control panel has been tripped.	After inspecting the unit to determine the cause of the tripped circuit breaker, press the reset button.
Engine will not start	Loose or corroded battery.	Clean, tighten, or replace the battery terminals.
ŭ	Dead battery.	Recharge or replace battery.
The engine does not turn over	Defective ignition switch.	Test ignition switch for power going into the switch. If there is power going in but NO power going out, replace the switch.
	Defective starter motor.	Test the starter motor. If necessary replace.
	Vacuum pump seized.	Refer to vacuum pump manufacturer's service & repair manual.
	Waste tank is full.	Empty the waste tank.
	Defective fuel pump.	Replace the fuel pump.
Starter turns over engine, but	Loose or broken wires leading to waste tank float switch.	Repair or replace any broken electrical connections.
will not start	Defective float switch in the waste tank.	Check switch for proper operation, replace as necessary.
	Internal engine problem.	Consult the engine manufacturer's service and repair manual or contact engine manufacturer's authorized repair center.

PROBLEM	CAUSE	SOLUTION	
	Engine is out of gasoline	Add gasoline to the fuel tank.	
	Waste tank is full	Empty waste tank.	
Engine stops running	Main circuit breaker on the control panel has been tripped.	After inspecting the unit to determine the cause of the tripped circuit breaker, press the reset button.	
While doing normal cleaning, the engine stops running	Defective fuel pump.	Replace fuel pump.	
the engine stops fullilling	Defective float switch inside the waste tank.	Check switch for proper operation. Replace as necessary.	
	No ignition in the engine or engine is malfunctioning.	Refer to the engine manufacturer's manual.	
Excessive heating	Flow restriction caused by hard water scaling.	Descale unit, repair or replace damaged plumbing components as necessary. Install water softener.	
	Not enough water flow.	Check jet size of tool.	
NOTE: The heat exchanger will produce water condensation discharge at times during normal operation. DO NOT confuse this with a leak.	Engine/vacuum exhaust heat exchangers are damaged from frozen water.	Inspect heat exchangers for leaks. Visually inspect for damage. Pressure check after removing from the unit. (Maximum test pressure 1200 PSI).	
Loss of temperature The heat output of the unit is	Temperature relief valve on water box is stuck open.	Clean temperature relief valve and test. Replace, if necessary.	
LESS than normal.	Engine RPM is low.	Reset engine RPM.	
Automatic waste pump is	Defective waste pump float switch.	Replace float switch. *	
malfunctioning or not operating	Broken diaphragm.	Replace diaphragm.	
normally	147 1 1 1 11	Charge or replace battery if needed.	
* NOTE: When replacing either the pump or float switch, on	Weak battery.	Check charging station. *	
Internal (in tank) Pump out, use new electrical connectors and heat shrink. Inspect connection for watertight seal.	Pump-out circuit breaker on control panel has been tripped.	After inspecting waste pump to determine the cause of the tripped circuit breaker, press the reset button.	

Legend Brands Truckmount Warranty



Effective on all products shipped AFTER June 1st, 2017

Limited Warranty

Legend Brands' liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall Legend Brands' liability exceed the purchase price of the product in question. Legend Brands makes every effort to ensure that all illustrations and specifications are correct, however, these do not imply a warranty that the product is merchantable or fit for a particular purpose, or that the product will actually conform to the illustrations and specifications. Our obligation under this warranty is expressly limited at our option to the replacement or repair at a service facility or factory designated by us, of such part or parts as inspection shall disclose to have been defective. The warranty contained herein is in lieu of all other warranties, express or implied, including any implied warranty of merchantability or fitness for a particular purpose are expressly limited to the duration of this written warranty. This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Legend Brands does not authorize any other party, including authorized Legend Brands Distributors, to make any representation or promise on behalf of Legend Brands, or to modify the terms, conditions, or limitations in any way. It is the buyer's responsibility to ensure that the installation and use of Legend Brands' products conform to local codes. While Legend Brands attempts to assure that its products meet national codes, it cannot be responsible for how the customer chooses to use or install the product. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Local or distant transportation, related service labor, normal maintenance, and diagnostic calls are not included. Labor cost associated with warranty will be covered for a period of two (2) years from the date of purchase for components

listed below: (Excludes: Engines, Batteries & consumable/wear items).

Parts Warranty	Labor coverage	
5 years	2 years	
2 years	2 years	
	5 years 2 years	

*Product exceptions and exclusions:

- Warranty coverage for the Engine & Blower is defined by the manufacturer of the components.
- Normal wear and maintenance items are covered for 90 days with labor. These include but are not limited to; disposable filters, any fluids, electrical components, bearings, fittings, hoses, O-rings, gaskets, diaphragms, wand shut off valve, water pump clutch, jets & engine tune up components.

Gardner Denver & General Pump is responsible for the evaluation/warranty coverage of the components manufactured by them. **Legend Brands** will facilitate the warranty process between the dealer & component manufacturer.

Component	Parts Warranty	Labor Coverage	
Gardner Denver Tri-flow	1 Year	1 Year	
Gardner Denver Bi-lobe	18 Months	18 Months	
General Water Pump (90 day seals/check valve)	1 Year	1 Year	

The warranty starts on the purchase/service date by the original end user from an authorized Prochem Legend Brands dealer, subject to proof of purchase. **The warranty is non-transferable and is intended for the original purchaser only**. The Warranty Registration Card must be completed and returned within 10 days of the purchase (online at www.legendbrandscleaning.com/warranty)

If proof of purchase / service date cannot be identified, the warranty start date will be determined as 90 days after the date of sale to an authorized Legend Brands dealer.

If difficulty develops during the warranty period, contact the authorized Prochem Legend Brands dealer from whom the product was purchased. Legend Brands may require the return of components in order to validate a claim. Any part to be returned must be shipped **freight prepaid** to an authorized Prochem Legend Brands Dealer/Service Center.

Engine warranty coverage and the administration of the warranty process are handled directly by the manufacturer of the components.

Legend Brands reserves the right to change its warranty policy without notice.

Legend Brands Truckmount Warranty



Effective on all products shipped AFTER June 1st, 2017

Component	Coverage Responsibility	Warranty
	Engine Dependent:	
Engine	Briggs & Stratton – 1.800.233.3723	2 years
	Kohler – 1.800.544.2444	2 years
	Kubota - 1.847.955.2500	2 years
Hyundai Engine	www.zenithpp.com/ 1.276.525.4760	2 years or 2000 hours
Zenith EFI Emissions	Monday - Thursday 1.276.645.8679	3 Years or
	Friday only 1.276.477.0653	2500 hours

^{*}The servicing dealer must contact engine manufacturer prior to performing service.

This Warranty Shall Not Apply To:

- 1. Any product that has been subject to abuse, misuse, neglect or unauthorized alteration (including the use of incompatible or corrosive chemicals or overloading of capacity).
- 2. Products that have experienced shipping or freight damage.
- 3. Repairs necessary to correct any failure due to improper pre-delivery service and inspection by the selling dealer.
- 4. Excessive time for cleaning units in preparation for repair.
- 5. Any repairs resulting from poor initial service work or improper diagnosis.
- 6. Tune-up parts such as plugs, plug wires and condensers.
- 7. Any design alterations performed by an organization not authorized or specified by Prochem Legend Brands.
- High-pressure washing.
- 9. Electrical components exposed to moisture.
- 10. Battery does not carry warranty coverage.

If difficulty develops during the warranty period, contact the authorized agent from whom the product was purchased. Legend Brands may elect to require the return of components to validate a claim. Any defective part to be returned must be shipped freight prepaid to Returns department.

Use of Parts Not Approved By Legend Brands Will Void All Warranties

This warranty is valid only for all products Shipped/Sold *AFTER* June 1, 2017. A product sold before that date shall be covered by the limited warranty in effect at the date of sale to the original purchaser.



Spare Parts List 1.001-121.0, 1.001-163.0 Blazer GT

From Serial Number (Ref No1*)

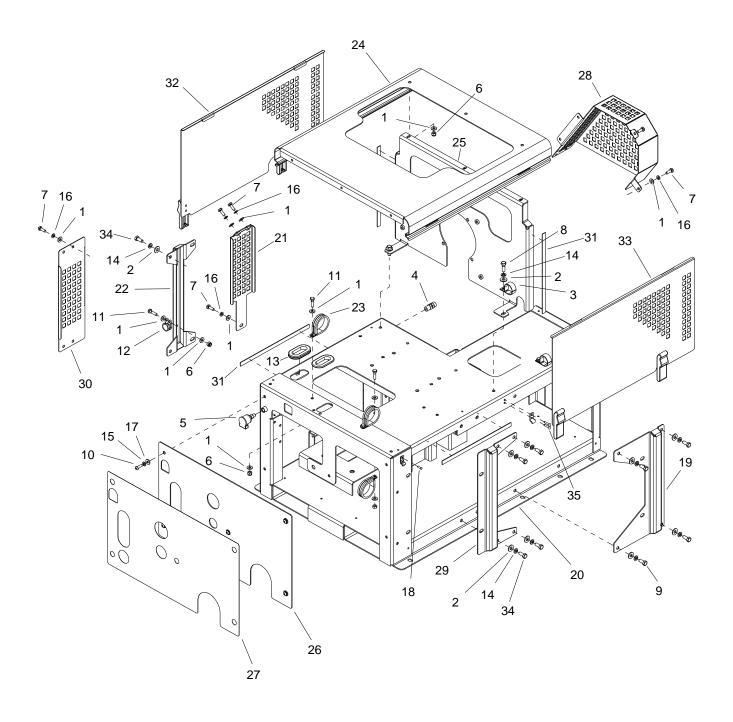
*See Serial Number Page
or call manufacturer

The PARTS LIST section contains assembled parts illustrations and corresponding parts list. The parts lists include a number of columns of information:

- REF column refers to the reference number on the parts illustration.
- PART NO. column lists the part number for the part.
- QTY column lists the quantity of the part used in that area of the machine.
- DESCRIPTION column is a brief description of the part.
- SERIAL NO. FROM If this column has an (*) and a Reference number, see the SERIAL NUMBERS page in the back of your manual. If column has two asterisk (**), call manufacturer for serial number. The serial number indicates the first machine the part number is applicable to. The main illustration shows the most current design of the machine. When a boxed illustration is shown, it displays the older design.
- NOTES column for information not noted by the other columns.

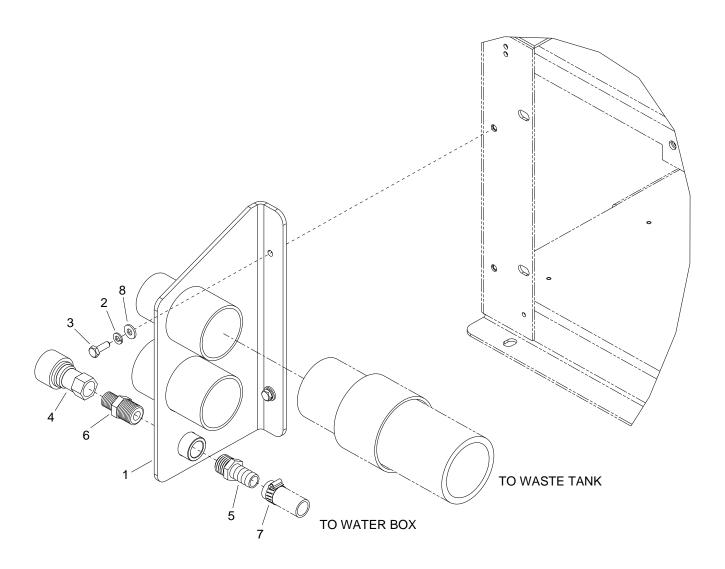
NOTE: If a service or option kit is installed on your machine, be sure to keep the KIT INSTRUCTIONS which came with the kit. It contains replacement parts numbers needed for ordering future parts.

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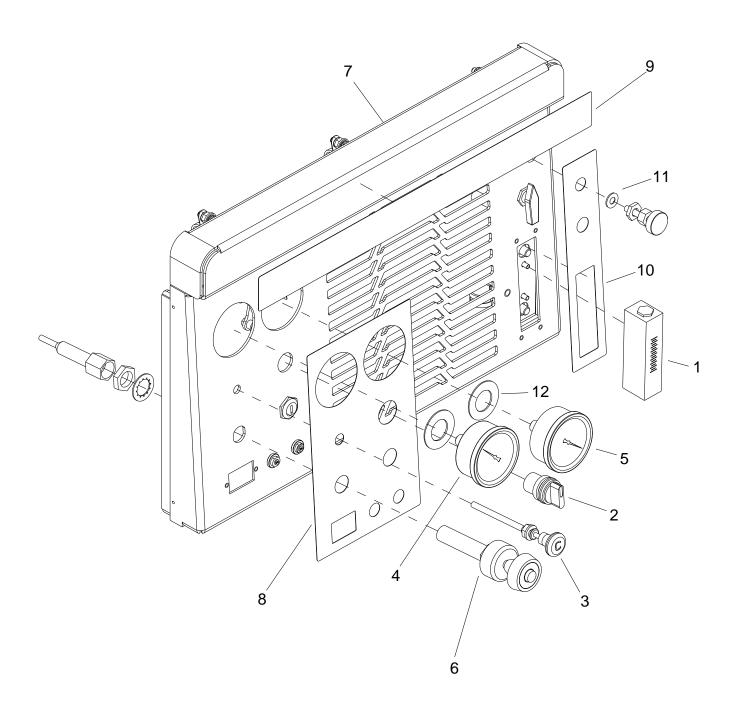


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86270330	23	FLATWASHER, 1/4		
2	86278830	14	WASHER, 5/16 FLAT PLTD		
3	86177040	2	CLAMP, CABLE 1-1/4 ID 5/16 BLT		
4	86177640	1	CONN, 1/8P X 1/4POLY BR		
5	86178700	1	CUP, OIL FILL 1/8P		
6	86005680	7	NUT, 1/4-20 HEX NYLOCK		
7	86274750	12	SCR, 1/4-20 X 3/4 HHCS		
8	86006750	2	SCR, 5/16-18 X 1.00 HHCS GR5		
9	86006760	4	SCR, 5/16-18 X 3/4 HHCS GR5		
10	86275460	5	SCR, 1/4-20 X 3/4 BHCS		
11	86275570	4	SCR, 1/4-20 X 1.00 HHCS GR5		
12	86233410	1	CLAMP, 3/4 DIA CUSHION .406 DIA		
13	86238500	2	GROMMET, 1.703IDX2.5ODX.125GRV		
14	86279130	14	WASHER, 5/16 SPLIT		
15	86279400	5	WASHER, 1/4 SPLIT BLK		
16	86010780	12	WASHER, 1/4 SPLIT		
17	86279520	5	WASHER, 1/4 X 5/8 FLAT BLK		
18	86191810	4	RIVET, 5/32 OD X .251375 GL AL		
19	86310020	1	BRKT, HE SUPT		
20	86393780	1	ASSEMBLY, SM SHT MTL FRAME		
21	86313750	1	GUARD, BELT, LOWER REAR		
22	86313910	1	BRKT, LEFT FRAME STIFFENER		
23	86314700	3	CLAMP, CABLE,1-3/4 "P"CUSHION		
24	86412890	1	BRKT, CENTER HOOD, BLK		
24B*	86316050	1	BRKT, CENTER HOOD		1.001-163.0
25	86316070	1	BRKT, REAR ENGINE SUPT		
26	86316180	1	PNL, LOWER FRONT, BGT		
27	86409970	1	LABEL, LOWER FRONT PNL, BGT		
27B*	86316190	1	LABEL, LOWER FRONT PNL, BGT		1.001-163.0
28	86316820	1	GUARD, REAR BELT		
29	86316860	1	BRKT, FRONT HE SUPT		
30	86317250	1	GUARD, BELT, FRONT, BGT		
31	86318810	4	GASKET, HOOD VIBE DAMPNR		
32	86412850	1	ASSY, LEFT HOOD, BGT, BLK		
32B*	86318880	1	ASSY, LEFT HOOD, BGT		1.001-163.0
33	86412870	1	ASSY, RIGHT HOOD, BGT, BLK		
33B*	86318890	1	ASSY, RIGHT HOOD, BGT		1.001-163.0
34	86006750	8	SCREW 5/16-18 X 1"HHCSGR5PLT NP		
35	86373930	4	RIVET, 5/32 X.376500GL POP AL		

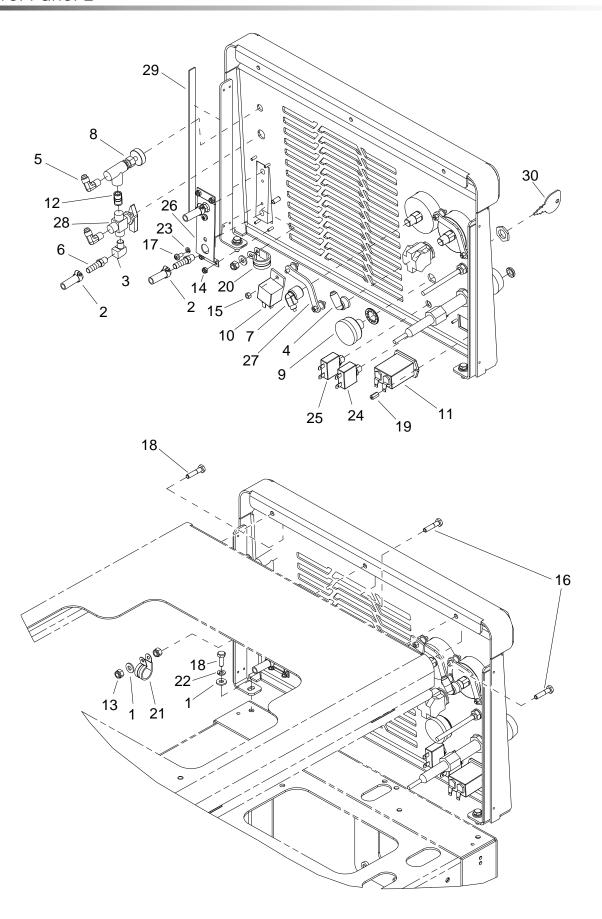
^{*}B: Diamond Pro Machines Only



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86327760	1	BRKT, WTR & VAC INLET, LGT BGT		
2	86010780	2	WASHER, 1/4 SPLIT LOCK		
3	86274750	2	SCR, 1/4-20 X 3/4 HHCS		
4	86179710	1	DSC, 3/8F X 3/8FP		
5	86181360	1	FTTG, BRB 1/2P X 5/8H BR		
6	86188210	1	NIP, 1/2 X 3/8 HEX BR		
7	86177260	1	CLMP,HOS#10 9/16MIN 1-1/		
8	86270330	2	FLATWASHER, 1/4		

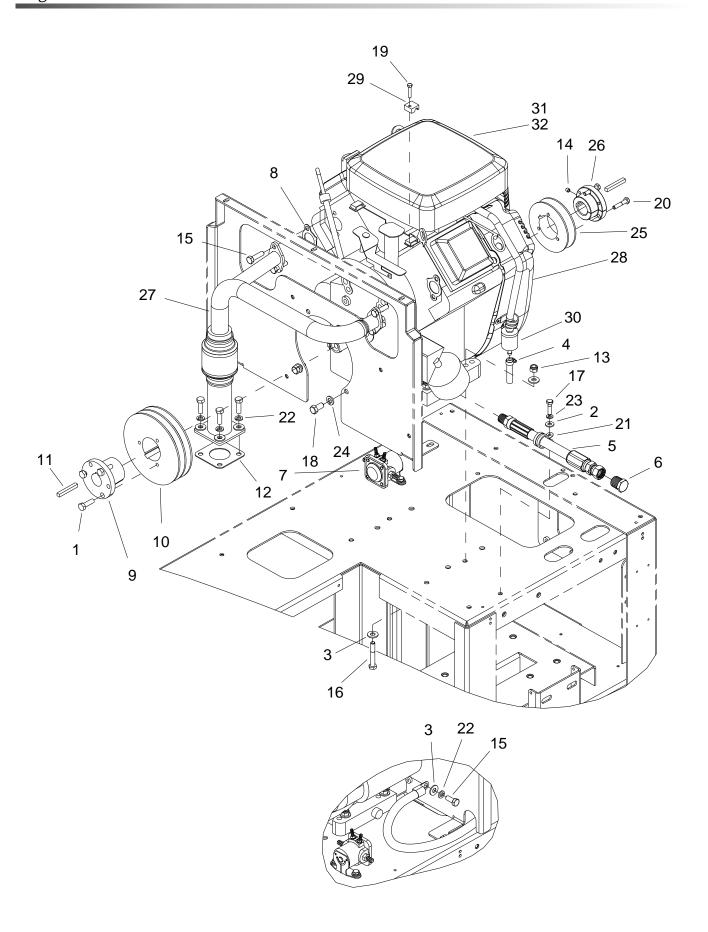


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86181170	1	FLOWMETER 1/8FP		
2	86193760	1	SW,RTRY W/BYPASS NON-ILL		
3	86176120	1	CABLE, CHOKE		
4	86181930	1	GAUGE, 1200 PSI		BRKT 86175680 INCLUDED
5	86181950	1	GAUGE, VACUUM, 15" HG		BRKT 86175680 INCLUDED
6	86177540	1	CNTRL, THRTL, BLZRXL CLR/CLNR		
7	86412910	1	ASM, CONTROL PNL, BGT PC, GRY		
-	86315970	1	ASM, CONTROL PNL, BGT PC		STANDARD FOR 10011630
8	86409980	1	LABEL, CONTROL PNL, BLAZER GT		STANDARD FOR 10011210
9	86409990	1	LABEL, FRNT HD, BGT, PC		
-	86394090	1	LABEL, FRNT HD, BGT DP		STANDARD FOR 10011630
10	86410000	1	LABEL, CHEM PNL BLZR GT		
11	86329190	1	WASH, 446ID X.563OD X.010THK SST		
12	86358480	2	SPACER, BEAUTY RING		

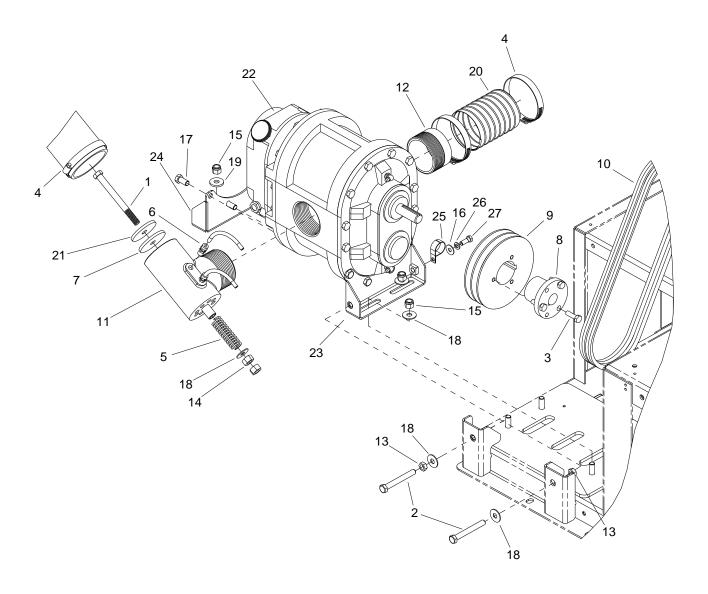


86411090 Spare Parts List - Blazer GT

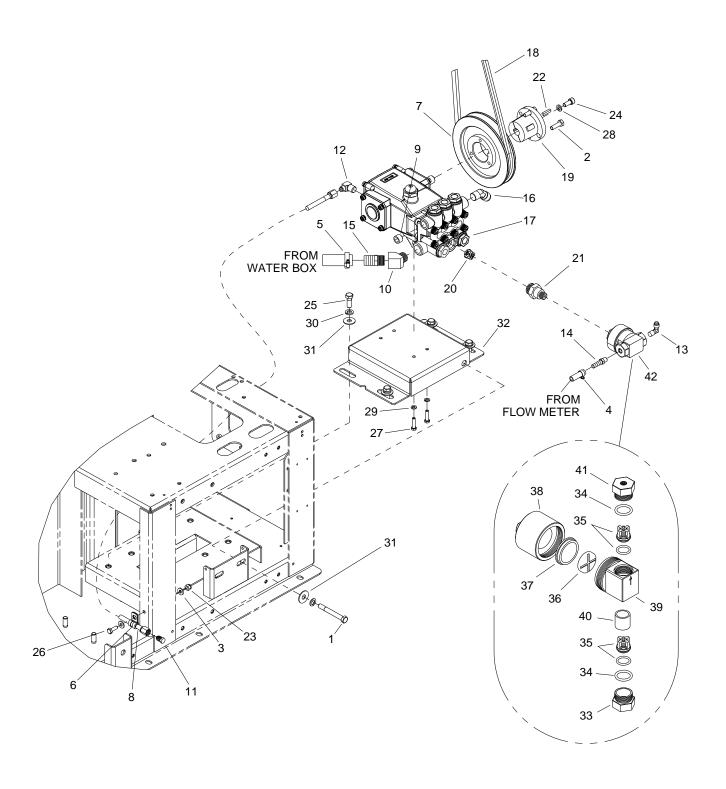
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86270330	5	FLATWASHER, 1/4		
2	86176990	3	CLAMP, HOSE #4 SST		
3	86180140	1	ELL, STREET 1/8 BR		
4	86180350	1	ELL, 1/4FP X 1/4T BR		
5	86180360	2	ELL, 1/8P X 1/4T BR		
6	86181300	3	FTTG, BRB 1/8P X 5/16H		
7	86180380	1	ELL, 1/4FP X 1/4POLY BR		
8	86195050	1	VALVE, METER 1/8FP		
9	86186020	1	KEYSWITCH		
10	86191740	1	RELAY, ENG SHTDWN		
11	86246890	1	METER,0-60VDC HOUR		
12	86247720	1	NIPPLE, 1/8 CLOSE		
13	86005680	6	NUT, 1/4-20 HEX NYLOCK		
14	86270920	4	NUT, 6-32 HEX NYLOCK SS		
15	86136310	4	NUT, M5 X 4.7 HEX NYLOCK		
16	86273820	2	SCR, 1/4-20 X 1.25 HHCS SS		
17	86274290	2	SCR, 10-32 X 3/8 PPHMS SS		
18	86274750	3	SCR, 1/4-20 X 3/4 HHCS		
19	86255920	2	STANDOFF, 6-32 X 1/2 HEX NYL		
20	86233390	1	CLAMP, 7/8 DIA P CUSHIONED		
21	86233410	2	CLAMP, 3/4 DIA CUSHION .406 DIA		
22	86010780	2	WASHER, 1/4 SPLIT		
23	86279470	2	WASHER, #10 SPLIT		
24	86175610	1	BRKR, CIRCUIT, 30A		
25	86175620	1	BRKR, CIRCUIT 25A		
26	86017360	1	BRKT, FLOW METER		
27	86175680	2	BRKT, WIKA MOUNTING		
28	86297070	1	VALVE, 3-WAY BALL 1/8P		
29	86318810	2	GASKET, HOOD VIBE DAMPNR		
30	86185990	1	KEY, SWITCH TM (32-900174)		(KEY ONLY)



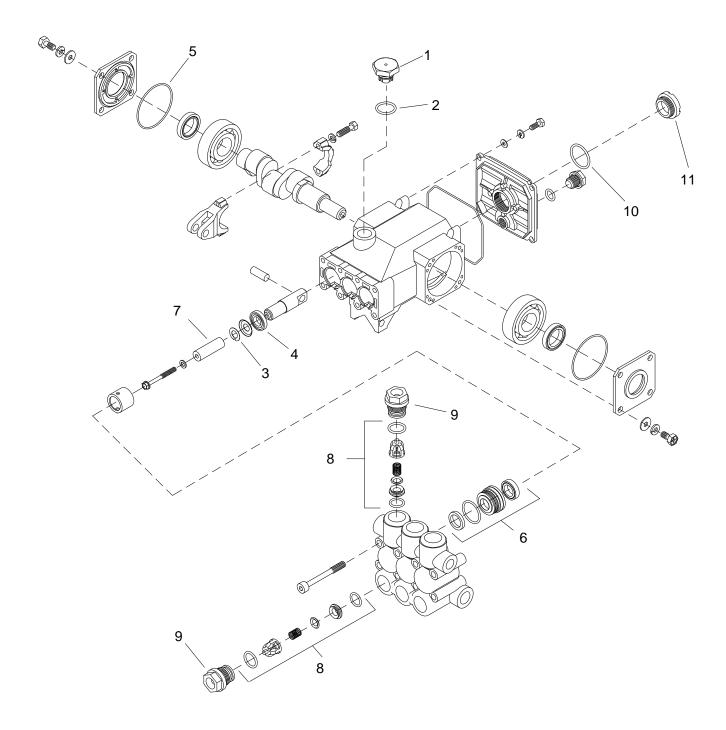
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86273440	7	SCR, MACH 5/16-18 X 1" GR8		
2	86270330	3	FLATWASHER, 1/4		
3	86278830	13	WASHER, 5/16 FLAT PLTD		
4	86176990	2	CLAMP, HOSE #4 SST		
5	86183600	1	HOS, 3/8 X 10 (3/8P X 1/2T)		
6	86190550	1	PLUG, 1/2T		
7	86192870	1	SOLENOID, STARTER		
8	86181790	2	GASKET, EXHAUST MNFLD		
9	86185330	1	HUB, P1 X 1		
10	86191030	1	PULLEY, 2TA54		
11	86049230	2	KEY, 1/4 SQ X 1.88		
12	86182290	1	GSKT, EXH, KUB, D902/WG972		
13	86005750	4	NUT, 5/16-18 HEX NYLOCK		
14	86277930	1	SCR, 1/4-20 X 3/8 SSSCU DL		
15	86136640	5	SCR, M8 X 20 HHMS		
16	86274900	4	SCR, 5/16-18 X 2.00 HHCS GR5		
17	86275570	3	SCR, 1/4-20 X 1.00 HHCS GR5		
18	86006920	4	SCR, 3/8-16 X 3/4 HHCS GR5		
19	86277890	1	SCR, M5 - 8 X 25MM STL, ZNC		
20	86277680	3	SCR, 1/4-20 X 1-1/4 HXHD GR8		
21	86233390	2	CLAMP, 7/8 DIA P CUSHIONED		
22	86279130	5	WASHER, 5/16 SPLIT		
23	86010780	3	WASHER, 1/4 SPLIT		
24	86010790	4	WASHER, 3/8 SPLIT		
25	86191280	1	PULLEY, 1B36SH		
26	86185400	1	HUB, SH1		
27	86316380	1	TUBE, EXHAUST, B&S 18HP		
28	86317390	1	ENG, B&S, 18HP W/FRNT SHFT		
29	86318050	1	CLAMP, THROTTLE CABLE		
30	86318330	1	FILTER, FUEL, 1/4" HOSE		
31	86174440	1	B&S CARTRIDGE AIR CLNR 394-018		
32	86180090	1	ELEMENT (OUTER), AIR CLEANER		
-	86174450	1	B&S OIL FILTER #492-932		



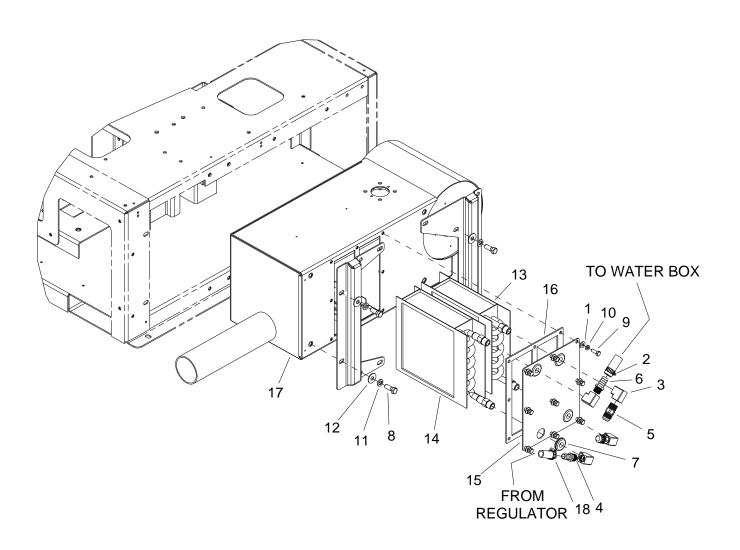
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86273320	1	SCR, CAP 7/16-14 x 4 HXHD		
2	86273420	2	SCREW, 3/8-16 X 3 HHMS STL GRA ZNPLT		
3	86273440	3	SCR, MACH 5/16-18 X 1" GR8		
4	86177010	3	CLAMP, HOSE #48		
5	86193230	1	SPRING, VAC REL VLV		
6	86177640	2	CONN, 1/8P X 1/4POLY BR		
7	86179580	1	DIAPHRAM, VAC REL VLV		
8	86185340	1	HUB, P1 X 3/4"		
9	86191030	1	PULLEY, 2TA54		
10	86371990	2	BELT,BANDO AX38 PWR KING COG		
11	86180600	1	ELL, VAC REL VLV		
12	86188500	1	NIP, VAC EXH OUTL		
13	86005690	2	NUT, 3/8-16 HEX JAM		
14	86271070	2	NUT, 7/16-14 HEX		
15	86005770	4	NUT, 3/8-16 HEX NYLOCK		
16	86278830	1	WASHER, 5/16 FLT STL ZNPLT		
17	86006920	8	SCR, 3/8-16 X 3/4 HHCS GR5		
18	86279510	5	WASHER, 3/8 X 1 FLAT NP		
19	86310690	2	WASH,3/8ID X 1.0OD X 1/8THK SS		
20	86311490	1	TUBING, FLEX, BLWR TO MFLR		
21	86311600	1	WASHER, VAC REL VLV, #4VAC		
22	86191370	1	PUMP, 3LVLTHC		
23	86394030	1	BRACKET, BGT FRONT BLWR MTG		
24	86394040	1	BRACKET, BGT REAR BLWR MTG		
25	86177040	1	CLAMP, CABLE 1-1/4 ID 5/16 BLT		
26	86279130	1	WASHER, 5/16 SPLT STL ZNPLT		
27	86006760	1	SCREW, 5/16-18 X .75 HHCS		
-	86189090	1	OIL, AEON PD-XD (28G47 SUTORBILT)		



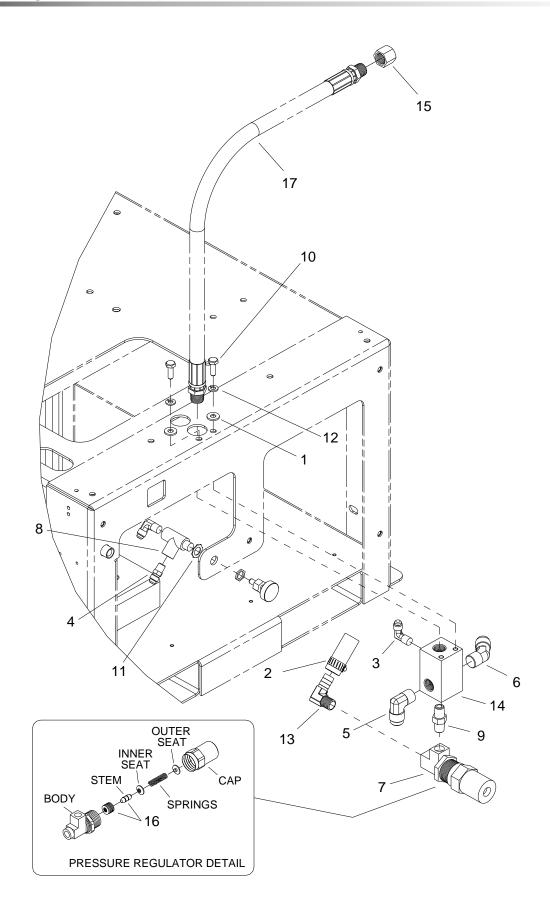
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86273420	1	SCR,CAP 3/8-16X3 ALL THD		
2	86273440	3	SCR, MACH 5/16-18 X 1" GR8		
3	86270330	2	FLATWASHER, 1/4		
4	86176990	1	CLAMP, HOSE #4 SST		
5	86233110	1	CLAMP, 1.0" WORM GEAR		
6	86177320	1	CLMP, CABL 1/4 ID 3/8BLT		
7	86317380	1	PULLEY, 1TB62		
8	86183700	1	HOS, 3/16X19(1/4FT BS)MET		
9	86190520	1	PLUG, 3/8 SOCHD BR		
10	86180230	1	ELL, STREET 1/2 45 DEG		
11	86190540	1	PLUG, 1/4T BR		
12	86180340	1	ELL, 1/4P X 1/4T BR		
13	86180360	1	ELL, 1/8P X 1/4T BR		
14	86181300	1	FTTG, BRB 1/8P X 5/16H		
15	86181370	1	FTTG, BRB 1/2P x 3/4H BR		
16	86180450	1	ELL, 3/8P X 1/2T 45 DEG. BR		
17	86408380	1	PMP, WTR, CAT 3CP, RIGHT ADP		INCLUDES 20, 21
18	86174960	1	BELT, AX37 GOODYEAR MATCH		
19	86185370	1	HUB, PUMP WATER		
20	86191780	1	RETAIN, VALVE SPRING		
21	86173750	1	ADPT, CAT CHEM PMP		
22	86049240	1	KEY, 3/16 SQ X 7/8		
23	86005680	1	NUT, 1/4-20 HEX NYLOCK		
24	86274650	1	SCR, M8 X 18 SHCS PLTD		
25	86006740	4	SCR, 3/8-16 X 1.00 HHCS GR5		
26	86274750	1	SCR, 1/4-20 X 3/4 HHCS		
27	86276570	4	SCR, M6 X 25 HHCS		
28	86279130	1	WASHER, 5/16 SPLIT		
29	86279140	4	WASHER, M6 SPLIT LOCK DIN127B		
30	86010790	5	WASHER, 3/8 SPLIT		
31	86279510	5	WASHER, 3/8 X 1 FLAT NP		
32	86328800	1	BRKT, WTR PMP MTG, BGT		
33	86195100	2	VALVE CAP, 303 SST, INPUT		
34	86189290	2	O-RING, DURO,.862ID X .103CS		
35	86195110	2	VALVE KIT, ASM, CHEM, PULSE PUMP		
36	86249220	1	PLASTIC DISC		
37	86179550	1	DIAPHRAGM, CHEM PUMP		
38	86194630	1	PULSE PUMP, TOP COVER INLET		
39	86191340	1	PULSE PUMP, BODY		
40	86192920	1	SPACER RING, 303 SST		
41	86195120	1	VALVE CAP, 303 SST, OUTPUT		
42	86030580	1	KIT,CHEM PMP BDY REPL		
-	86189080	1	OIL, CAT-WTR PMP		
-	86269900	1	PAMPHLET,INSTRUCT CAT3CP		



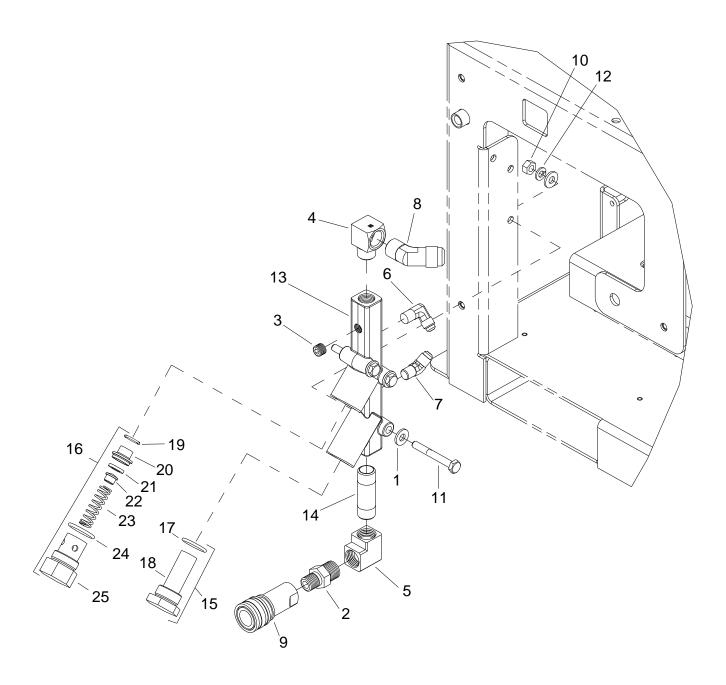
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86176520	1	CAP, OIL FILLER		
2	86189200	1	O-RING, OIL FILL CAP		
3	86195580	1	WASHER, KEYHOLE M18		
4	86192260	1	SEAL, OIL CRANKCASE		
5	86189210	2	O-RING, BEARING CVR		
6	86355310	1	KIT, WTR PMP HT SEAL, 3CP		ORDER 1 EACH (COMPLETE)
7	86190600	1	PLUNGER		
8	86176900	-	CAT#33258 KIT,VLV CAT 3C		1 EACH DOES 3 VALVES
9	86190560	2	PLUG, VALVE		
10	86181800	1	GASKET, OIL GAUGE		
11	86181970	1	GAUGE, OIL LEVEL		



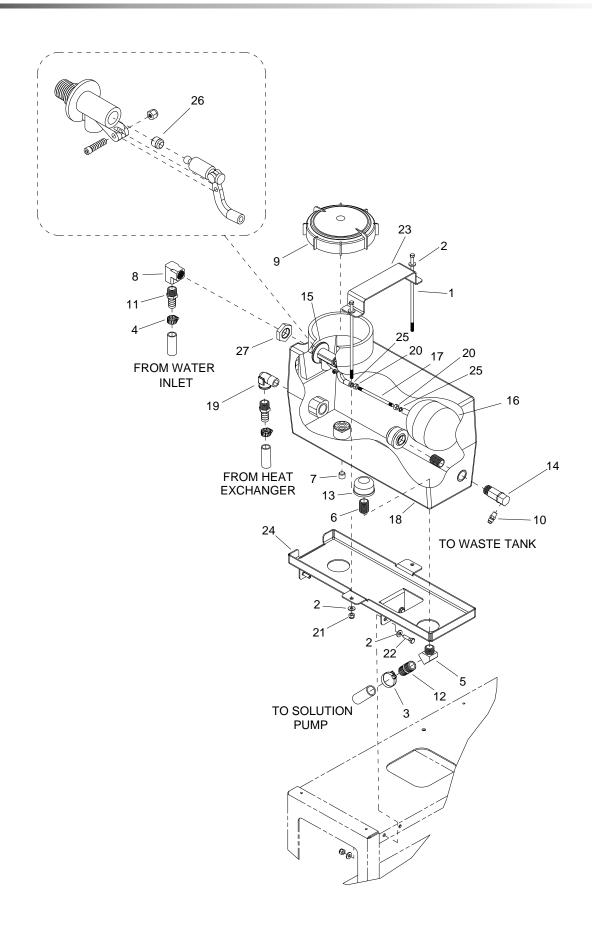
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	83270330	9	FLATWASHER, 1/4		
2	86177260	1	CLMP,HOS#10 9/16MIN 1-1/		
3	86180220	4	ELL, 3/8 BR		
4	86181330	1	FTTG, BRB 3/8PX1/2H BR		
5	86177700	2	CONN, 3/8P X 1/2T BR		
6	86181400	1	FTTG, BRB 3/8P x 5/8H BR		
7	86182190	4	GROMT, 1/2ID X 1-1/4OD 1/8G 5/16W		
8	86006740	4	SCR, 3/8-16 X 1.00 HHCS GR5 PLT		
9	86274750	9	SCR, 1/4-20 X 3/4 HHCS		
10	86010780	9	WASHER, 1/4 SPLIT LOCK PLTD		
11	86010790	4	WASHER, 3/8 SPLIT LOCK PLTD		
12	86279510	4	WASHER, 3/8 X 1 FLAT		
13	86043150	1	ASSEMBLY, HEATER CORE SS		
14	86318840	1	ASSY, HEATER CORE COPPER, GT		
15	86308920	1	PLATE, HEATER CORE COVER		_
16	86308930	1	GASKET, HEATER CORE COVER		
17	86394220	1	HOUSING, BGT HEAT EXCHANGER		
18	86386920	1	CLAMP, HOSE #06 3/8"-7/8" X 1/2"		



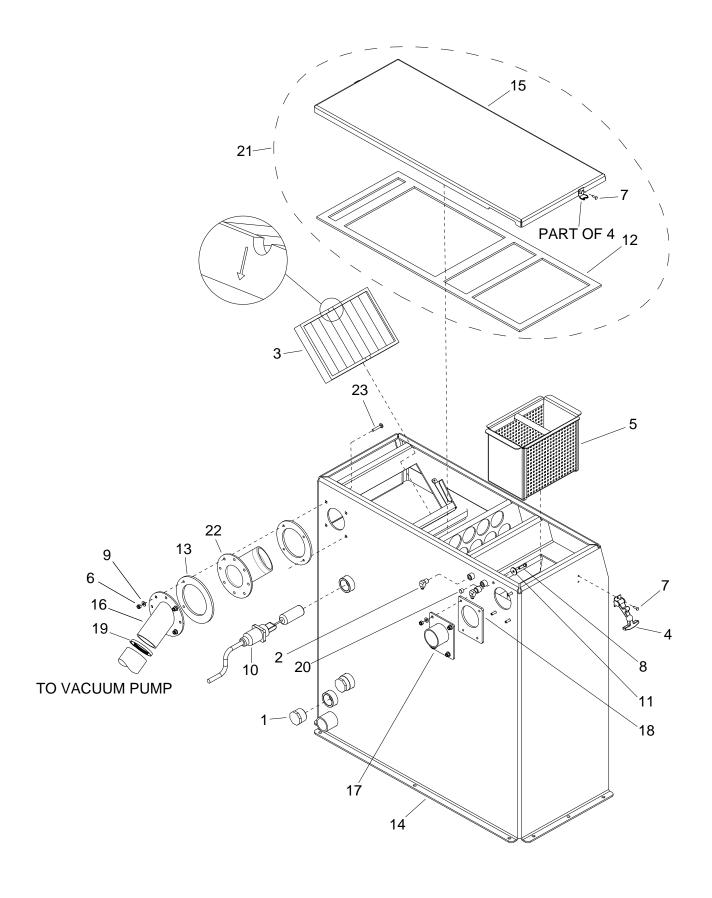
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86270330	2	FLATWASHER, 1/4		
2	86386920	1	CLAMP, HOSE #06 3/8"-7/8" X 1/2"		
3	86180360	2	ELL, 1/8P X 1/4T BR		
4	86177660	1	CONN, 1/8P X 1/4T		
5	86180410	1	ELL, 3/8P X 1/2T BR		
6	86180450	1	ELL, 3/8P X 1/2T 45 DEG. BR		
7	86352940	1	REG. SUTT SINGL SPRG PRESS		
8	86195050	1	VALVE, METERING 1/8FP		
9	86247680	1	NIPPLE, 1/4 HEX		
10	86273780	2	SCR, 1/4-20 X 3/4 HHCS SS		
11	86278970	1	WASHER, 7/16 EXT STAR		
12	86010780	2	WASHER, 1/4 SPLIT LOCK		
13	86180040	1	ELBOW, 1/4MPX1/2H 90DEG		
14	86312440	1	MNFLD, PRESSURE REG		
15	86313740	1	CAP, STEEL, 3/8-18FPT		
16	86186040	1	KIT, REPAIR PRESSURE REG		
17	86185180	1	HOSE, PULSE 36", 3/8MPT BS		



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86270330	6	FLATWASHER, 1/4		
2	86188130	1	NIPPLE, 3/8M X 1/4M		
3	86190180	1	PLG, 1/8 SOCHD BR		
4	86180210	1	ELL, ST 3/8 BR		
5	86180220	1	ELL, 3/8 BR		
6	86180360	1	ELL, 1/8P X 1/4T BR		
7	86180420	1	ELL, 1/8P X 1/4T 45 DEG		
8	86180450	1	ELL, 3/8P X 1/2T 45 DEG. BR		
9	86002450	1	COUPLER, 1/4 QD		
10	86270770	3	NUT, 1/4-20 HEX		
11	86273850	3	SCR, 1/4-20 X 2.00 HHCS SS		
12	86010780	3	WASHER, 1/4 SPLIT LOCK PLTD		
13	86311640	1	ASSY, SOLUTION MANIFOLD, 6.63		
14	86312630	1	NIPPLE, 3/8 X 2 BR		
15	86192240	1	SCRN, MESH W/O-RING, SOL MNFLD		INCLUDES 17-18
16	86195030	1	VALVE, CHECK		INCLUDES 19-25
17	86189260	1	O-RING		
18	86192210	1	SCREEN, CHECK VALVE		
19	86189230	1	O-RING		
20	86192390	1	SEAT, CHK VLV ASSY		
21	86194250	1	TEFLON SEAT		
22	86190910	1	POPPET, CHK VLV ASSY		
23	86193260	1	SPRING		
24	86189270	1	O-RING, 7/8 ID 1-1/16 OD		
25	86176350	1	CAP		

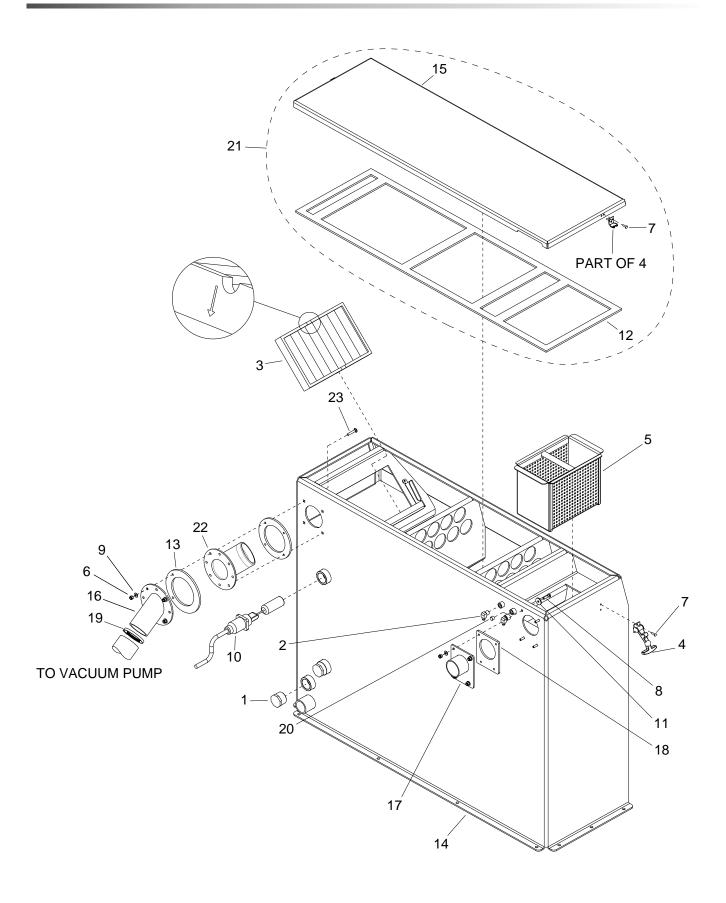


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86273410	2	SCR, CAP 1/4-20 X 8 HXHD		
2	86270330	12	FLATWASHER, 1/4		
3	86233110	1	CLAMP, 1.0" WORM GEAR		
4	86177260	2	CLMP,HOS#10 9/16MIN 1-1/		
5	86180230	1	ELL, STREET 1/2 45 DEG.		
6	86188180	2	NIP, 1/2 CL		
7	86272720	1	PLG, 1/4 SOCHD BRASS		
8	86180250	1	ELL, 1/2 BR		
9	86176400	1	CAP, WATER BOX		
10	86177660	1	CONN, 1/8P X 1/4T		
11	86181360	2	FTTG, BRB 1/2P X 5/8H BR		
12	86181370	1	FTTG, BRB 1/2P x 3/4H BR		
13	86193440	2	STRAINER, SUC END 1/2FP		
14	86195340	1	VLV, TEMP REL 145DEG		
15	86195060	1	VALVE, FLOAT, TM		
16	86348200	1	BALL, 4" DIA X 5" L, WHITE FLOAT		
17	86181150	1	ROD, FLOAT 1/4-20 X 6" SS		
18	86187820	1	MOLDING, WATER BOX		
19	86180570	1	ELL, STREET 1/2 BR FORGED		
20	86270770	2	NUT, 1/4-20 HEX		
21	86005680	6	NUT, 1/4-20 HEX NYLOCK		
22	86274750	4	SCR, 1/4-20 X 3/4 HHCS PLTD		
23	86308940	1	BRKT, WTR BOX HOLDDOWN		
24	86309000	1	BRKT, WTR BOX MTG		
25	86010660	2	WASHER 1/4 LOCK EXT STAR SS		
26	86192380	1	SEAT FLOAT VALVE TM		
27	86189010	1	NUT, FLOAT VALVE		

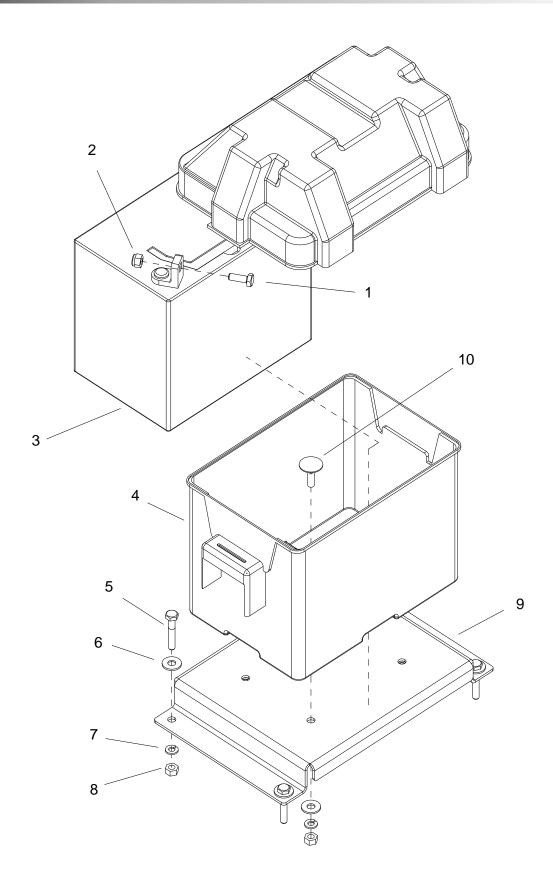


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	98408770	1	KIT, WASTE TANK, 60G, LGT/ BGT PC		COMPLETE
1	86190530	2	PLUG, 1-1/4 HXHD PVC		
2	86180340	2	ELL, 1/4P X 1/4T BR		
3	86193540	1	STRNR, WST TNK, RECT, 1.5		
4	86186860	2	LATCH, DRAW 2-7/8 SST		
5	86043190	1	ASSY, BSKT. STRNR WST TNK		
6	86005810	8	NUT, 1/4-20 HEX NYLOCK SS		
7	86273020	8	RIVET, 3/16 OD X 5/8 AL		
8	86273810	4	SCR, 1/4-20 X 1 HHCS SS		
9	86010630	8	WASHER, 1/4 X 5/8 FLAT SS		
10	86193870	1	ASSY, LVL SENS SHTOF SW		
11	86202240	4	WASHER, SEAL 1/4 X 1 OD SS		
12	86318530	1	GASKET, WASTE TANK LID		
13	86318560	2	GASKET, VAC OUTLET		
14	86410200	1	TANK, WASTE, 60G PC		
14B*	86320940	1	TANK, WASTE, 60G PC		1.001-163.0
15	86410190	1	LID, WST TNK, 60G PC		
15B*	86320990	1	LID, WST TNK, 60G PC		1.001-163.0
16	86412520	1	OUTLET, VACUUM, 2-7/8", PC, GRY		
16B*	86321040	1	OUTLET, VACUUM, 2-7/8", PC		1.001-163.0
17	86412530	1	INLET, 2-1/2" VACUUM, PC, GRY		
17B*	86323650	1	INLET, 2-1/2" VACUUM, PC		1.001-163.0
18	86323700	1	GASKET, VAC INLET		
19	86177010	1	CLAMP, HOSE #48		
20	86272720	1	PLG, 1/4 SOCHD BRASS		
21	86350790	1	ASSY, WASTE TANK LID, 60G		
22	86415330	1	ELBOW, Ø3.50 OD X 53°		
23	86277000	4	SCREW, 1/4-20 X 1.5 CARR SS		
-	86264850	1	ADH,GSKT (ADHESIVE)		

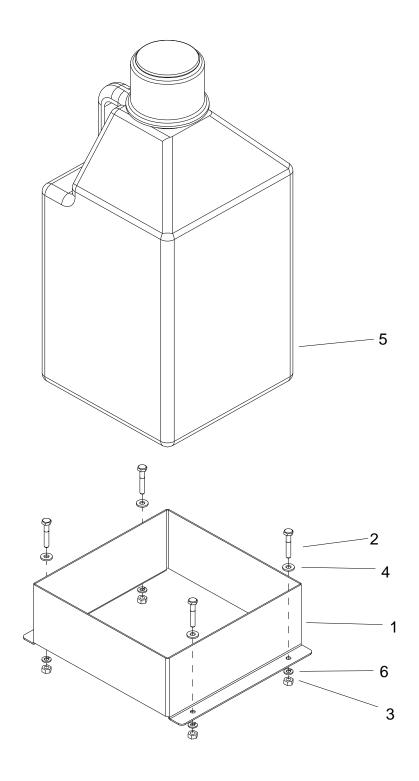
^{*}B: Diamond Pro Machines Only



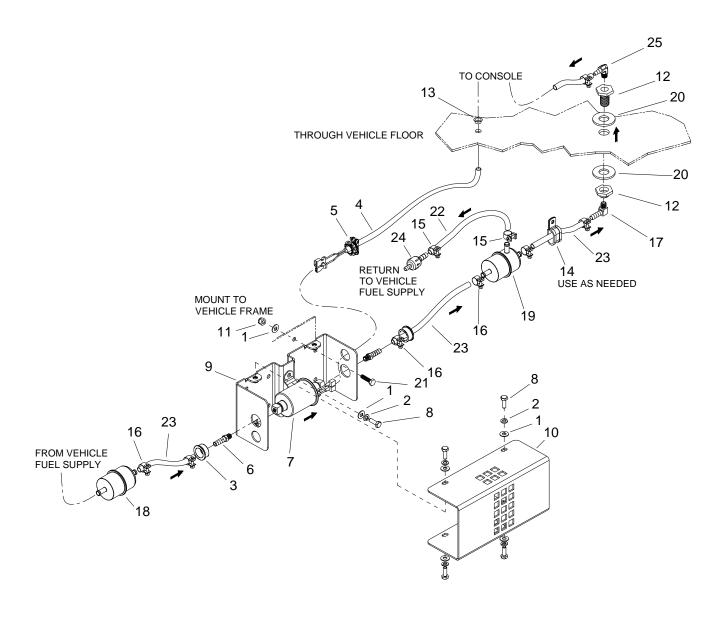
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	98408780	1	KIT, WASTE TANK 100 G, LGT/BGT PC		COMPLETE
1	86190530	2	PLUG, 1-1/4 HXHD PVC		
2	86180340	2	ELL, 1/4P X 1/4T BR		
3	86193540	1	STRNR, WST TNK, RECT, 1.5		
4	86186860	2	LATCH, DRAW 2-7/8 SST		
5	86043190	1	ASSY, BSKT. STRNR WST TNK		
6	86005810	8	NUT, 1/4-20 HEX NYLOCK SS		
7	86273020	8	RIVET, 3/16 OD X 5/8 AL		
8	86273810	4	SCR, 1/4-20 X 1 HHCS SS		
9	86010630	8	WASHER, 1/4 X 5/8 FLAT SS		
10	86193870	1	ASSY, LVL SENS SHTOF SW		
11	86202240	4	WASHER, SEAL 1/4 X 1 OD SS		
12	86325770	1	GASKET, 100G LID WST TNK		
13	86318560	2	GASKET, VAC OUTLET		
14	86410180	1	TANK, WASTE, 100G, GRAY		
15	86410170	1	LID, 100G WST TNK, GRAY		
16	86412520	1	OUTLET, VACUUM, 2-7/8", PC, GRY		
17	86412530	1	INLET, 2-1/2" VACUUM, PC, GRY		
18	86323700	1	GASKET, VAC INLET		
19	86177010	1	CLAMP, HOSE #48		
20	86272720	1	PLG, 1/4 SOCHD BRASS		
21	86412920	1	ASSY, WASTE TANK LID, 100 G		
22	86415330	1	ELBOW, Ø3.50 OD X 53°		
23	86277000	4	SCREW, 1/4-20 X 1.5 CARR SS		
-	86264850	1	ADH, GSKT (ADHESIVE)		NOT SHOWN



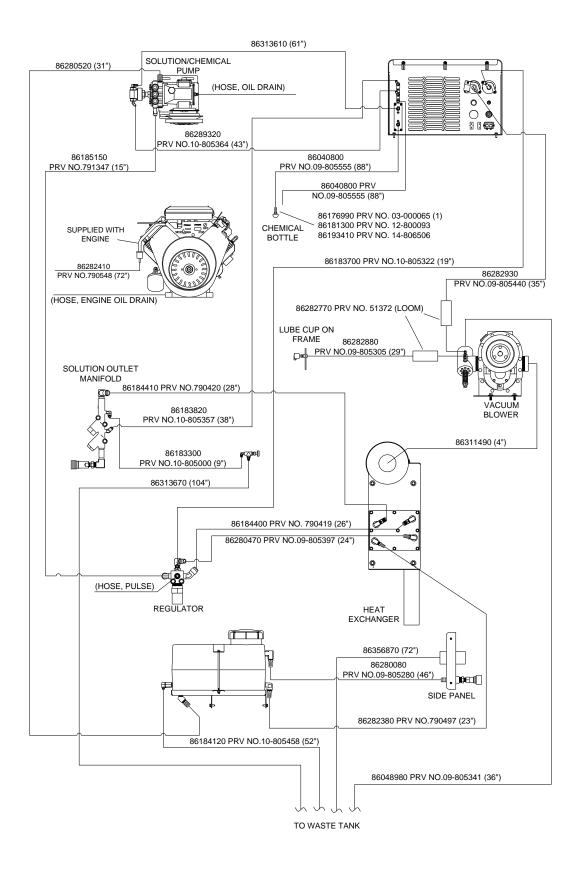
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
-	86030550	1	KIT,BAT FLR MTG TM		COMPLETE
1	86273780	2	SCR, 1/4-20 X 3/4 HHCS SS NP		
2	86005680	2	NUT, 1/4-20 HEX NYLOCK		
3	86174580	1	BATTERY		
4	86012060	1	BOX, BATTERY, MODIFIED		
5	86273190	4	SCR, 1/4-20 X 1-1/2 HXHD		
6	86270330	8	FLATWASHER, 1/4		
7	86010780	8	WASHER, 1/4 SPLIT LOCK PLTD		
8	86270770	8	NUT, 1/4-20 HEX		
9	86309890	1	BRKT, BATTERY BOX MTG		
10	86011470	4	BOLT, ELEVATOR, 1/4-20 X 1		

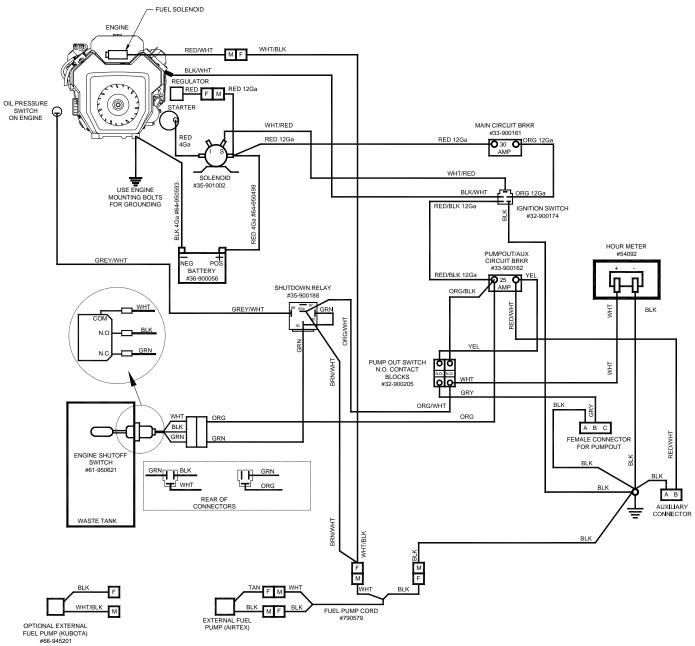


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86298250	1	HOLDER, 5 GAL JUG		
2	86273190	4	SCR, 1/4-20 X 1-1/2 HXHD		
3	86270770	4	NUT, 1/4-20 HEX		
4	86270330	4	FLATWASHER, 1/4		
5	86185720	1	JUG,5 GAL, SINGLE HNDL, WHITE		
6	86010780	4	WASHER 1/4 SPLIT LOCK PLTD		



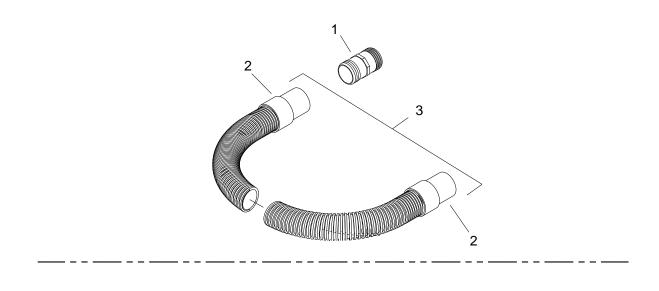
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86010630	14	WASHER, 1/4 ID X 5/8 OD SS		
2	86173340	6	WASHER, SPLIT LOCK, 1/4, SS		
3	86175970	2	BUSHING, SNAP HEYCO 2140		
4	86176930	1	CD, FUEL PUMP, 2003 VAN		
5	86177880	1	CONN, CORD 1/2		
6	86181300	2	FTTG, BARB 1/8P X 5/16H		
7	86191420	1	PUMP, FUEL AIRTEX		
8	86273780	6	SCR, 1/4-20 X 3/4 HHCS SS NP		
9	86335230	1	HOUSING, FUEL PUMP		
10	86335240	1	COVER, FUEL PUMP		
11	86005810	4	NUT, 1/4-20 HEX NYLOCK SS		
12	86175850	1	BULKHEAD		
13	86175980	1	BUSH, OPEN/CLSD 5/8 HOL		
14	86177370	4	CLMP, FUEL LINE 5/16 X 1/4B		
15	86177390	2	CLAMP, F.I., SAE 12, 1/4" HOSE		
16	86177400	7	CLAMP, F.I., SAE 14, 5/16" HOSE		
17	86179920	1	EL, 90DEG 1/8 X 5/16HB		
18	86180960	1	FILTER, FUEL, 5/16		
19	86181620	1	FUEL FILTER		
20	86182460	2	GSKT, BULKHD-FUEL LINE HKU		
21	86273810	4	SCR, 1/4-20 X 1 HHCS SS		
22	86282410	1	HOSE, FUEL 1/4 X 6'		
23	86184980	1	HOSE, 5/16" FUEL X 12', T-FLEX		
24	86339630	1	VALVE, CHECK, 1/4H X 5/16H FUEL		
25	86179930	1	EL, 90DEG 1/8NPT X 1/4HB		
-	86282810	2	SLEEVE, 3/4 LOOM X 23"		
-	86265730	10	TIE, CABL 8" WHT		
-	86273290	4	SCR, SLFDR #14 X 1 HXHD		

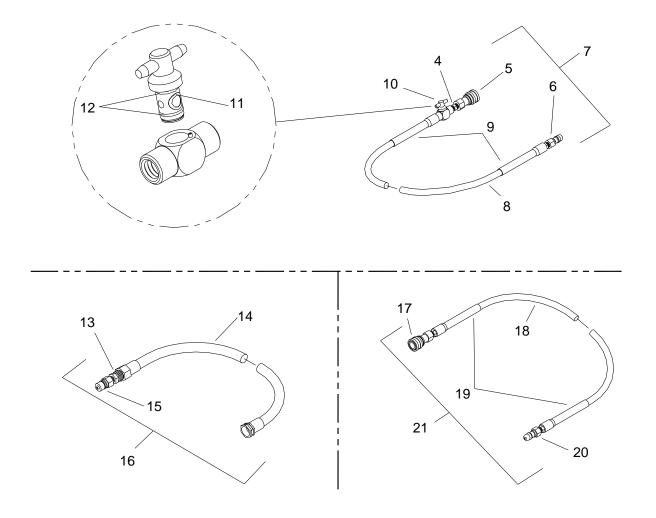




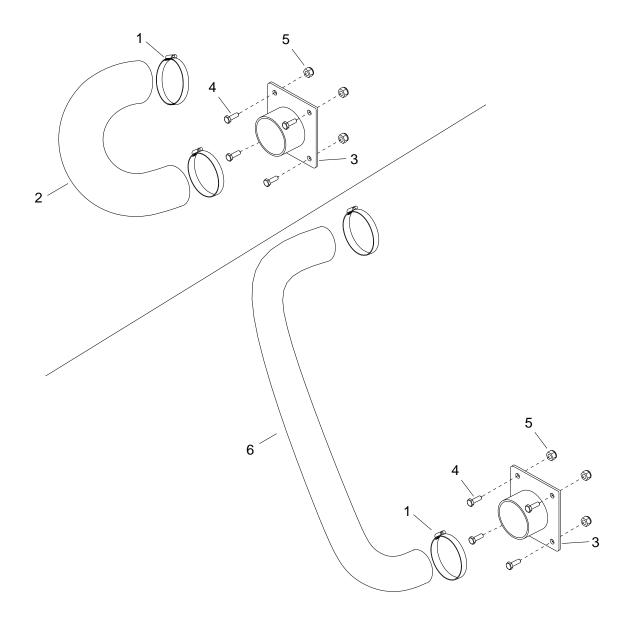
DO NOT GROUND FUEL PUMP TO MOUNTING BOX OR CHASSIS OF VAN USE SUPPLIED FUEL PUMP CORD ONLY

OPTIONS

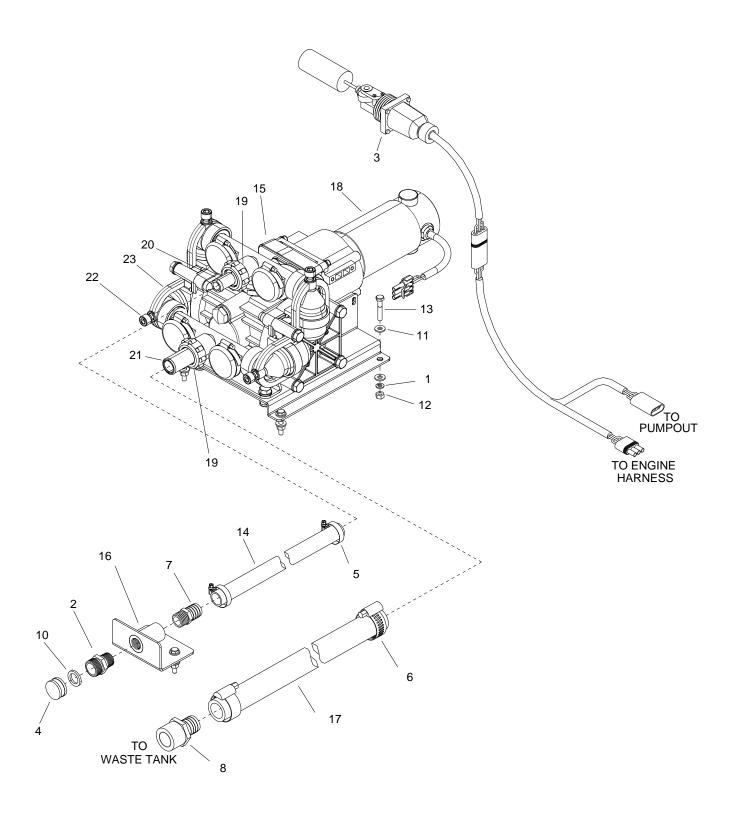




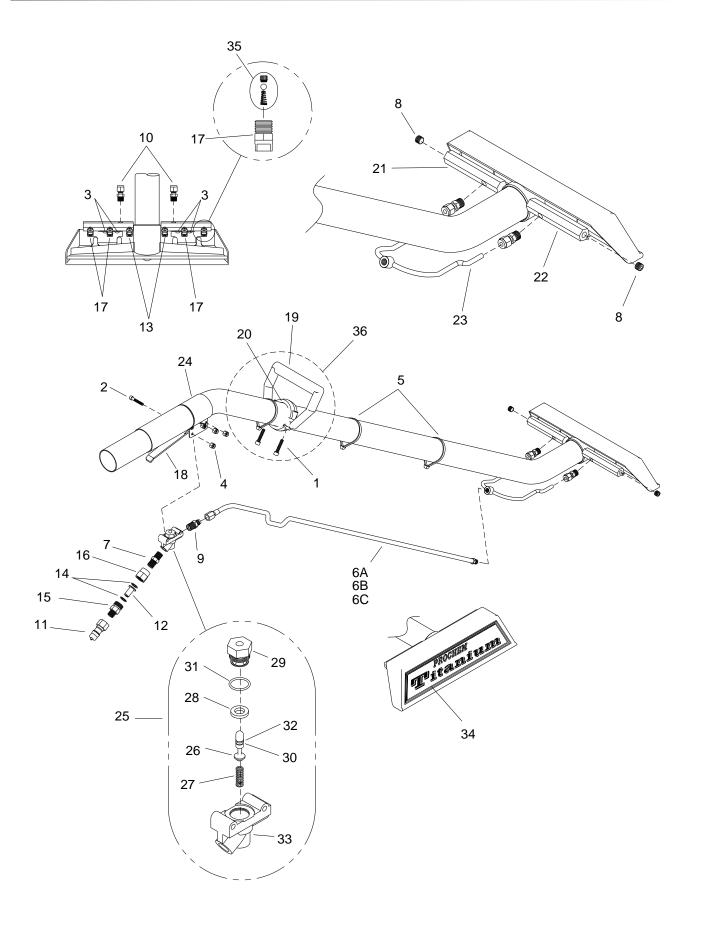
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86180980	1	FITTING, BRB 2H BS PVC		
2	86178640	2	CUFF, 2"		
3	86184510	1	HOSE, VAC 2"X50' W/ CUFFS & HOSE		
4	86247680	1	NIPPLE, 1/4 HEX		
5	86002450	1	COUPLER, 1/4 QD		
6	86005580	1	NIPPLE, 1/4 FPT QD		
7	86184530	1	HOSE, HP 1/4 X 50FT W/QD & VLVE		
8	86184520	1	HOSE, HP 1/4 X 50'		
9	86182800	2	GUARD, HOSE VINYL		
10	86194990	1	VALVE, BALL 1/4FP		
11	86189240	2	O-RING, 7/32ID X 11/32OD		
12	86189250	2	O-RING, 3/8 ID X 1/2 OD		
13	86188210	1	NIP, 1/2 X 3/8 HEX BR		
14	86184570	1	HOSE, WATER 1/2 X 50'		
15	86179630	1	DISCONNECT 3/8M X 3/8FP		
16	86184620	1	HOSE, WATER 1/2 X 50'		
17	86002450	1	COUPLER, 1/4 QD		
18	86184520	1	HOSE, HP 1/4 X 50'		
19	86182800	2	GUARD, HOSE VINYL		
20	86005580	1	NIPPLE, 1/4 FPT QD		
21	86184540	1	HOSE, HP 1/4 X 50FT W/QD		



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
1	86177010	2	CLAMP, #48 HOSE		
2	86280600	1	HOSE, 3" X 17" FLEXABLE		
3	86181110	1	FLANGE, VAC EXH DUCT KIT LG		
4	86192060	4	SCREW, 1/4-20 X 1-1/4" SST		
5	86005810	4	NUT, 1/4-20 HEX NYLOCK SS		
6	86335340	1	HOSE, 3" ID, FLX EXHST X 36"		
-	86030440	1	KIT, EXHAUST 3"ID, SINGLE		KIT COMPLETE
-	86335350	1	KIT, EXHAUST 3" ID, SINGLE, AUX TNK		KIT COMPLETE

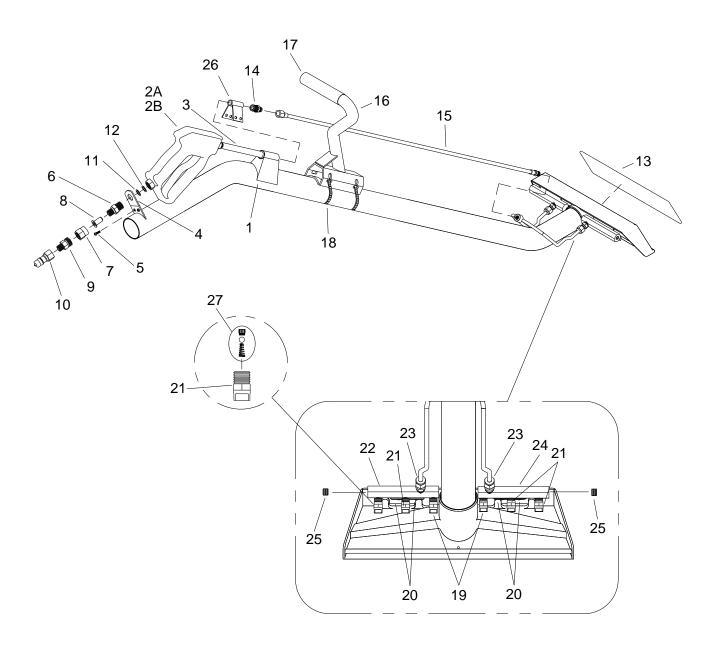


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	86335970	1	ASSY, PUMPOUT, DUAL DIAPHRAGM		COMPLETE ASSEMBLY
1	86010780	1	WASHER, 1/4 SPLIT LOCK, PLTD		
2	86173530	1	ADAPTER, HOSE 1/2M X 3/4 MGT		
3	86174260	1	ASSY, LVL SW WASTE PUMPOUT		
4	86176420	1	CAP,HOS 3/4 BR		
5	86233110	2	CLAMP, 1.0" WORM GEAR		
6	86177050	2	CLAMP, HOSE #20		
7	86181370	1	FTTG, BRB 1/2P X 3/4H BR		
8	86181440	1	FTTG, 1-1/4P X 1"H BR		
9	86336420	4	CLAMP, DUAL PUMPOUT		
10	86195820	1	WSR,HOS 5/8 ID 1"OD		
11	86270330	12	FLATWASHER, 1/4		
12	86270770	6	NUT, 1/4-20 HEX		
13	86273190	6	SCR, 1/4-20 X 1-1/2 HXHD		
14	86280590	1	HOSE, 3/4ID WTR X 96"		
15	86333880	1	PUMPOUT, WASTE, DUAL DIAPHRAGM		
16	86335950	1	BRKT, HOSE CONNECTING		
17	86335960	1	HOSE, 1" ID X 18" BLACK EXHAUST		
18	86336370	1	MOTOR, BISON PUMP 12V		
19	86336350	2	NUT, 3/4"DIA OUTLET, DUAL PUMPOUT		
20	86336360	1	FTTG, BARB, 3/4"DIA, DUAL PUMPOUT		
21	86336380	1	FTTG, BARB, OUTLET, DUAL PUMPOUT		
22	86336410	4	SCR, CLAMP SHCS, DUAL PUMPOUT		
-	86184780	1	HOSE, GARDEN 3/4 X 75'		NOT SHOWN
-	86336300	2	DIAPHRAGM, PUMP OUT, DUAL		NOT SHOWN
-	86336310	2	BOLT, DIAPH RETAINING		NOT SHOWN
-	86336320	2	WASHER, DIAPH RETAINING		NOT SHOWN
-	86336340	4	VALVE, DUAL PUMPOUT, CHECK		NOT SHOWN
-	86336390	4	O-RING, DUAL PUMPOUT, MANIFOLD		NOT SHOWN
-	86336400	2	O-RING, BARB FTTG, DUAL PUMPOUT		NOT SHOWN
-	86336440	1	KIT, DUAL PUMPOUT, REBUILD		NOT SHOWN

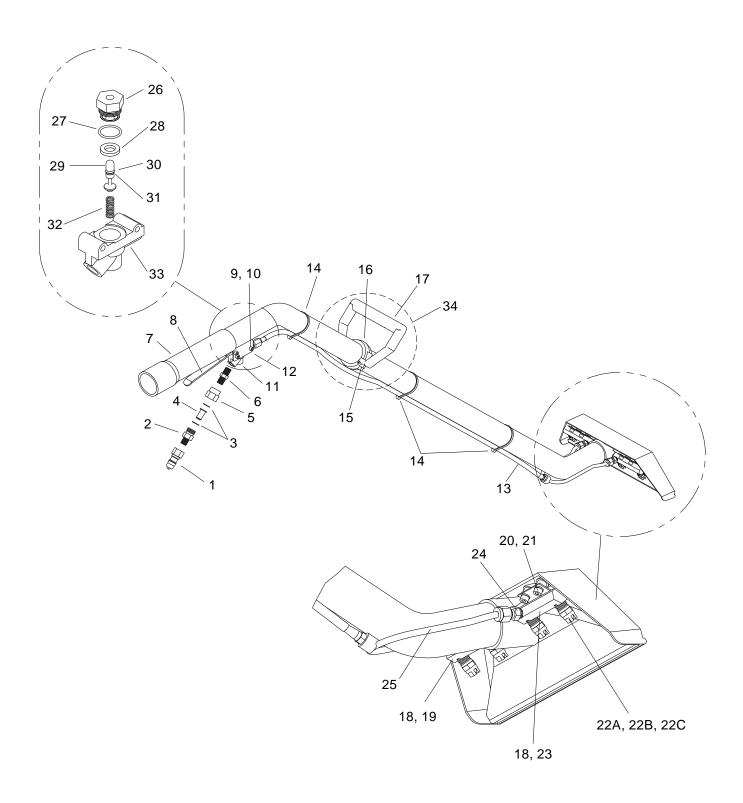


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	86288350	1	WD, TM, 6 JET, TITANIUM (8001) PC		COMPLETE
1	86273310	2	SCR, CAP 1/4-20 X 1 1/4 SOC		
2	86192030	5	SCR, CAP 10-32 X 1 1/4 SOCH		
3	86006680	4	SCR, 10-32 X 1/4 PPHMS SS		
4	86270990	5	NUT, 10-32 HEX NYLOCK SS		
5	86264910	2	TIE, CABLE 13"		
6A	86184270	1	HOSE, 3/16 X 46 (1/8P X 1/4FT) MET		A
6B	86337360	1	HOSE, 3/16 X 47 (1/8P X 1/4FT) MET		A
6C	86183720	1	HOSE, 3/16 X 47 5/8 (1/8P X 1/4FT) MET		A
7	86247680	1	NIPPLE, 1/4 HEX		
8	86190180	2	PLUG, 1/8 SOCHD BR		
9	86177650	1	CONN, 1/4P X 1/4T BR		
10	86177710	2	CONN, 1/8P X 1/4T COMP BR		
11	86005580	1	NIPPLE, 1/4 FPT QD		
12	86193490	1	STRAINER, JET 50 MESH		
13	86194450	2	TIP, SPRAY 9501 X 1/8P SST		
14	86195570	2	WASHER, NYLON		
15	86177860	1	CONN, 1/4P X 11/16-16M		
16	86177870	1	CONN, 1/4FP X 11/16-16F BR		
17	86194580	4	TIP, SPRAY 8001 SST \1/8 VJET		
18	86340720	1	TRIGGER, WD VLV, 9 DEG		
19	86174680	1	BODY, WD HDL, 2" TB, BK		
20	86198180	1	HOLD DN-WD HDL 2" TUBE		
21	86187610	1	MANFOLD, LEFT		
22	86187620	1	MANIFOLD, RIGHT		
23	86174060	1	ASSY, MNFLD S-BEND		
24	86372970	1	BRACKET, WAND VALVE		
25	86174120	1	ASSY, EXTRACTOR VALVE		
26	86193360	1	STEM, EXTRACTOR VALVE		
27	86193200	1	SPRING, EXTRACTOR VALVE		
28	86192410	1	SEAT, EXTRACTOR VALVE		
29	86183160	1	HLDR, VLV STEM-EXTRACTOR VL		
30	86189510	1	O-RING, .114 ID .254OD		
31	86189520	1	O-RING, .551ID .691OD		
32	86174500	1	BACK-UP, .250DIA		
33	86174630	1	BDY, EXTRACTOR VLV		
34	86179250	1	DEC, WD HD TITANIUM		
35	86341590	6	CHECK VALVE, NOZZLE WD		
36	86182850	1	HANDLE GRIP ASSEMBLY 2.0"		INCLUDES ITEMS 1, 19, 20

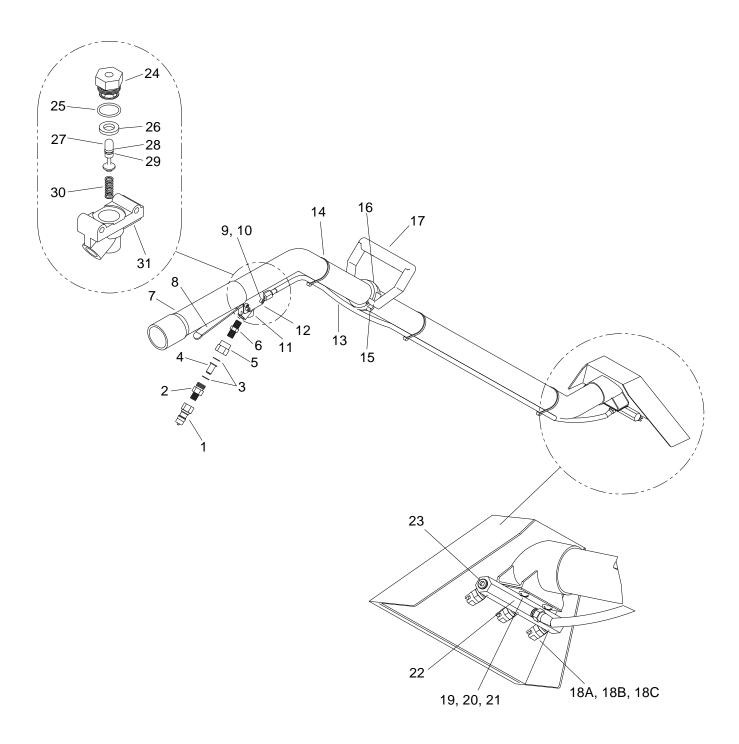
[▲] MEASURE AND MATCH EXISTING HOSE LENGTH.



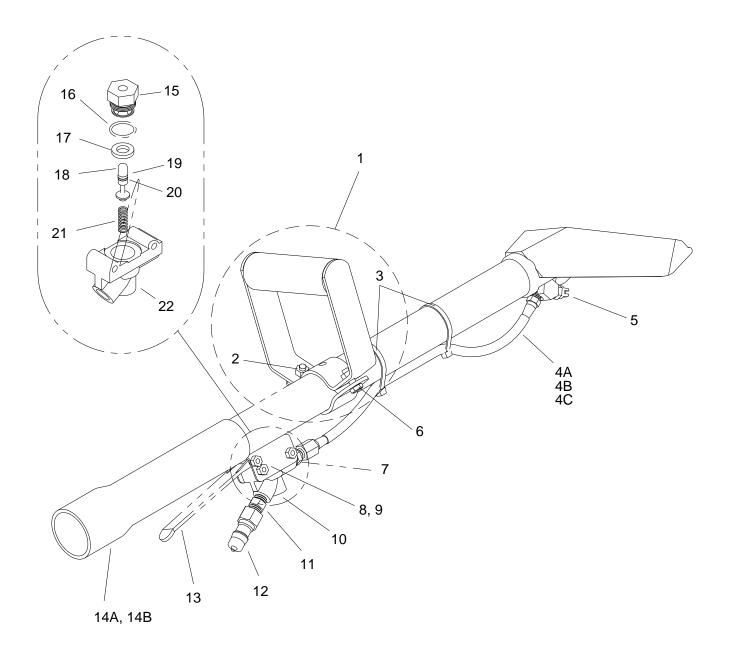
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	86326900	1	WAND, ERGO TI		COMPLETE
1	86195560	1	WAND/HEAD WELDMENT		
2A	86182820	1	GUN, PRESS WASH TM		
2B	86011740	1	YG5000 SPRAY GUN ASM		
3	86188590	1	NIPPLE, 1/4 X 5 SS		
4	86175760	1	BRKT, HNDL, CLMP		
5	86277760	2	SCR, 8-32 X 1/4 SHCS SS		
6	86188280	1	NIP, 3/8 X 1/4 HX SST		
7	86177870	1	CONN, 1/4FP X 11/16-16F BR		
8	86193490	1	STRNR, JET 50 MESH		
9	86177860	1	CONN, 1/4 X 11/16-16M		
10	86005580	1	NIP, 1/4 FPT QD		
11	86195600	1	WASHER, BLK WD		
12	86195610	1	WASHER, FLAT SS WD		
13	86179020	1	DEC, WD HD (CAST SST) TM		
14	86177650	1	CONN, 1/4P X 1/4T BR		
15	86031580	1	HOSE, 3/16 X 40-1/2		
16	86183110	1	HDL, TITANIUM WND W/SPYR		
17	86182120	1	GRIP, BLK HANDLE		
18	86177150	2	CLAMP, #38 HOSE SS		
19	86194450	2	TIP, SPRY 9501 X 1/8P SST		
20	86270990	4	NUT, 10-32 HEX SS NYLOCK		
21	86194580	4	TIP, SPRAY 8001 SST 1/8 VJE		
22	86187620	1	MNFLD, LT TITAN		
23	86177710	2	CONN, 1/8P X 1/4T COMP BR		
24	86187610	1	MNFLD, RT TITAN		
25	86190180	2	PLG, 1/8 SOCHD BR		
26	86175660	1	BRKT, MANIFOLD, WAND		
27	86341590	6	CHECK VALVE, NOZZLE WD		
-	86186100	1	KIT, REPAIR 17-803025		



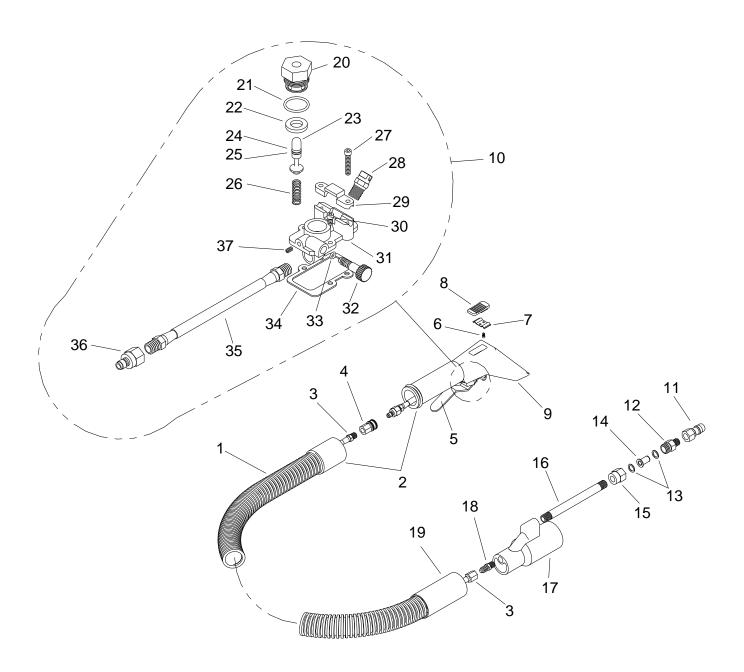
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	86285570	-	WAND, TM, QJW (95015) PC		COMPLETE
-	86285580	-	WAND, TM, QJW (9502) PC		COMPLETE
-	86285560	-	WAND, TM QJW (9501) PC		COMPLETE
-	86285540	-	WAND, TM, QJW, (9501) NO DECAL		COMPLETE
1	86005580	-	NIPPLE, 1/4 FPT QD		
2	86177860	1	CONN, 1/4P X 11/16-16M		
3	86195570	1	WASHER, NYLON		
4	86193490	2	STRAINER, JET 50 MESH		
5	86177870	1	CONN, 1/4FP,11/16-16R BR		
6	86247680	1	NIPPLE, 1/4 HEX		
7	86280020	1	SLEEVE, WD HDL 9.5		
8	86194650	1	TRIGGER, WD VLV		
9	86192030	3	SCR, CAP 10-32X 1-1/4 SOCH		
10	86270990	3	NUT, 10-32 HEX NYLOCK SS		
11	86174120	1	ASSY, EXTRCTR VLV		
12	86177650	1	CONN, 1/4P X 1/4T BR		
13	86183970	1	HOSE, 3/16 X 43-1/2 (1/8P X 1/4)		
14	86265730	3	TIE, CABLE 8" WHT		
15	86273310	2	SCR, CAP 1/4-20 X 1-1/4 SOC		
16	86198160	1	HOLD DOWN, WD HDL		
17	86182840	1	BODY, WD HDL		
18	86190180	2	PLUG, 1/8 SOCHD BR		
19	86043300	1	ASSY, L S-BEND MNFLD		
20	86273450	4	SCR, CAP 10-24 X1/4 SOCHD		
21	86279470	4	WASHER, #10 SPLIT LOCK		
22A	86194400	4	TIP, SPRY 95015X1/8P SST		89238
22B	86194410	4	TIP, SPRY 9502X1/8P SST		89239
22C	86194450	4	TIP, SPRY 9501X1/8P SST		89237 89235 (NO DECAL)
23	86043310	1	ASSY, RT S-BEND MNFLD		
24	86177710	2	CONN, 1/8PX1/4T COMP BR		
25	86174030	1	ASSY, S-BEND MNFLD		
26	86183160	1	HOLDER, VLV STEM-EXTRCTR VL		
27	86189520	1	O-RING, .551 ID .691 OD		
28	86192410	1	SEAT, EXTRCTR VLV		
29	86193360	1	STEM, EXTRCTR VLV		
30	86174500	1	BACK-UP, .250 DIA		
31	86189510	1	O-RING, .144 ID .254 OD		
32	86193200	1	SPRING, EXTRCTR VLV		
33	86174630	1	BODY, EXTRCTR VLV		
34	86182840	1	HANDLE GRIP ASSEMBLY 1.75"		INCLUDES PARTS 15, 16, 17
-	86179020	1	DECAL, WD HD (CAST SS)		
-	86186160	-	KIT, REP-WD VLV		INCLUDES PARTS 26-32



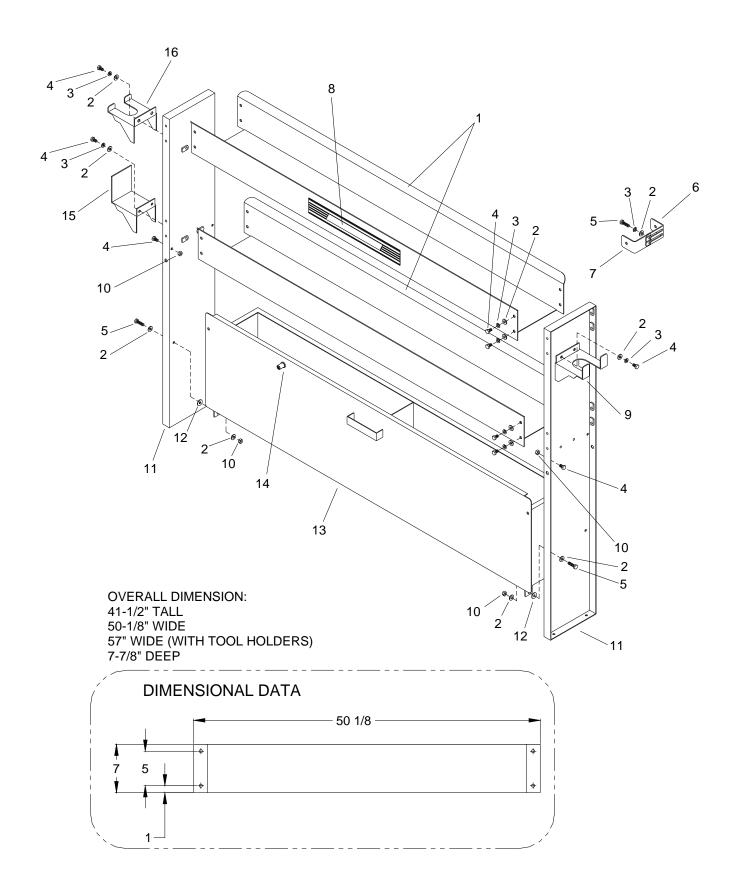
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	86285520	-	WAND, TJW (9502) PC		COMPLETE
-	86285510	-	WAND, TJW, (95015) CUBXL		COMPLETE
-	86285530	-	WAND, TJW, (9503) PC		COMPLETE
1	86005580	1	NIPPLE, 1/4 FPT QD		
2	86177860	1	CONN, 1/4P X 11/16-16M		
3	86195570	2	WASHER, NYLON		
4	86193490	1	STRAINER, JET 50MESH		
5	86177870	1	CONN, 1/4FP, 11/16-16R BR		
6	86247680	1	NIPPLE, 1/4 HEX		
7	86280020	1	SLEEVE, WD HDL 9.5		
8	86194650	1	TRIGGER, WD VLV		
9	86192030	3	SCR, CAP 10-32X 1-1/4 SOCH		
10	86270990	3	NUT, 10-32 HEX NYLOCK SS		
11	86174120	1	ASSY, EXTRCTR VLV		
12	86177650	1	CONN, 1/4P X 1/4T BR		
13	86183970	1	HOSE, 3/16X49 (1/8P X 1/4FT)		
14	86265730	3	TIE, CABLE 8" WHT		
15	86273310	1	SCR, CAP 1/4-20 X 1-1/4 SOC		
16	86198160	1	HOLD DOWN, WD HDL		
17	86182840	1	BODY, WD HDL		
18A	86194410	3	TIP, SPRY 9502X1/8P SST		89233
18B	86194400	3	TIP, SPRY 9501X1/8P SST		89232
18C	86194520	3	TIP, SPRY 9503X1/8P SST		89234
19	86274290	2	SCR, 10-32 X 3/8 PPHMS SS		
20	86279470	2	WASHER, #10 SPLIT LOCK		
21	86270800	2	NUT, 10-32 HEX SS		
22	86187700	1	MANIFOLD, WD TRI-JET		
23	86190180	2	PLUG, 1/8 SOCHD BR		
24	86183160	1	HOLDER, VLV STEM-EXTRCTR VL		
25	86189520	1	O-RING, .551 ID .691 OD		
26	86192410	1	SEAT, EXTRCTR VLV		
27	86193360	1	STEM, EXTRCT VLV		
28	86174500	1	BACK-UP, .250DIA		
29	86189510	1	O-RING, .114ID .254OD		
30	86193200	1	SPRING, EXTRCTR VLV		
31	86179020	1	BODY, EXTRCTR VLV		
-	86179020	-	DECAL, WD HD		
-	86186160	-	KIT, REP-WD VLV		INCLUDES PARTS 24-30



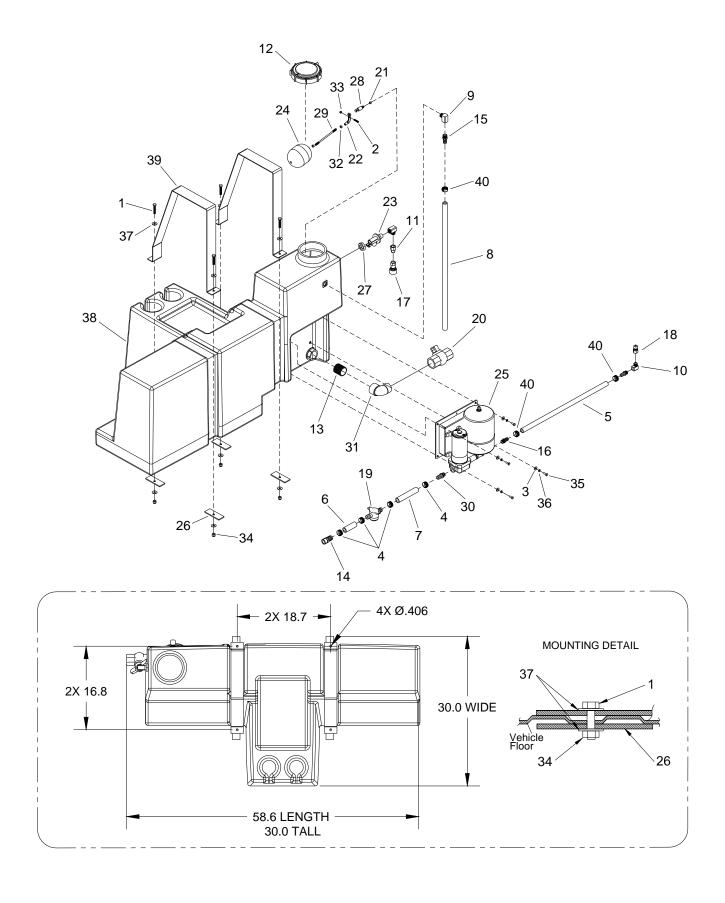
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	86285350	-	TL, STAIR, LNG, TM DJ (80015)		COMPLETE
-	86285290	-	TL, STAIR, SHT, TM (80015)		COMPLETE
1	86135760	1	HANDLE GRIP ASSEMBLY 1.5"		INCLUDES PARTS 2, 6
2	86270770	2	NUT, 1/4-20 HEX SS		
3	86265730	2	TIE, CABLE 8" WHT		
4A	86183710	1	HOSE, 3/16X13-3/4 (1/8PX1/4)		
4B	86184000	1	HOSE, 3/16X7-1/2 (1/8P X 1/4F)		
4C	86356140	1	HOSE, 3/16 X 9 (1/8PX1/4FT)MET		
5	86194410	1	TIP, SPRY 9502X1/8P SST		
6	86273810	2	SCREW, 1/4-20 X 1 HHCS SS		
7	86177650	1	CONN, 1/4P X 1/4T BR		
8	86192030	3	SCR, CAP 10-32X1-1/4 SOCH		
9	86270990	3	NUT, 10-32 HEX NYLOCK SS		
10	86174120	1	ASSY, EXTRCTR VLV		
11	86247680	1	NIPPLE, 1/4 HEX		
12	86005580	1	NIPPLE, 1/4 FPT QD		
13	86194650	1	TRIGGER, WD VLV		
14A	86280020	1	SLEEVE, WD HDL 9.5		
14B	86040950	1	SLEEVE, STAIR TL HDL 7-1/8		
15	86183160	1	HOLDER, VLV STEM-EXTRCTR VL		
16	86189520	1	O-RING, .551 ID .691 OD		
17	86192410	1	SEAT, EXTRCTR VLV		
18	86193360	1	STEM, EXTRCTR VLV		
19	86174500	1	BACK-UP, .250DIA		
20	86189510	1	O-RING, .114 ID .254 OD		
21	86193200	1	SPRING, EXTRCTR VLV		
22	86174630		BODY, EXTRCTR VLV		
-	86178970		DECAL, STAIR TL		
-	86186160		KIT, REP-WD VLV		INCLUDES PARTS 15-21
-	86178480	-	CPLG,UPHLST TL HOS (COUPLER)		



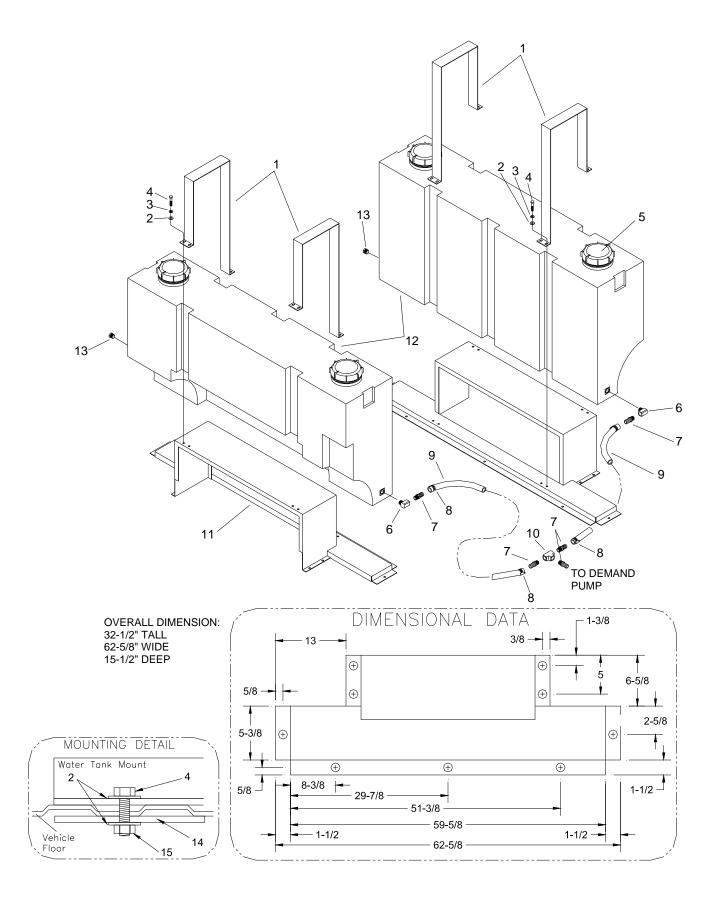
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
-	86285260	1	TL, UPHOLST, PC (80015)		COMPLETE
1	86280240	2	HOSE, VAC 1-1/4X10'		
2	86178660	1	CUFF, SWIV 1-1/4HX1-1/4T		
3	86184670	1	HOSE, 3/16X119-1/2 (1/8PX1/4FT)		
4	86179720	1	DSC, 1/8FC1/8FP SST		
5	86178550	1	UPHOLSTERY TL TRIGGER		
6	86273370	1	SCR, CAP 4-40 X7/32 SHCS SS		
7	86193050	1	SPRING, VAC ADJ BUTT		
8	86176080	1	BUTTON, VAC ADJ		
9	86194590	1	TOOL, UPHOLSTERY		
10	86174140	1	ASSY, UPHLST TL VLV		INCLUDES PARTS 20-26, 28, & 31- 37
11	86005580	1	NIPPLE, 1/4 NPT QD		
12	86177860	1	CONN, 1/4P X 11/16-16M		
13	86195570	1	WASHER, NYLON		
14	86193490	1	STRAINER, JET 50MESH		
15	86177870	1	CONN, 1/4FPX11/16-16F BR		
16	86188320	1	NIP, 1/4X5 SST		
17	86178520	1	COUPLER, UPHLST TL		
18	86177660	1	CONN, 1/8P X 1/4T		
19	86178630	1	CUFF, 1 1/4H X 1 1/2T GRY		
20	86183160	1	HOLDER, VLV STEM-EXTRCTR VL		
21	86189520	1	O-RING, .551 ID .691 OD		
22	86192410	1	SEAT, EXTRCTR VLV		
23	86193360	1	STEM, EXTRCTR VLV		
24	86174500	1	BACK-UP, 250DIA		
25	86189510	1	O-RING, .144 ID .254 OD		
26	86193200	1	SPRING, EXTRCTR VLV		
27	86273350	2	SCR, 6-32 X 1 SCHD SS		
28	86194500	1	TIP, SPRY 80015X1/8P SST		
29	86178540	1	CSTG, TRIGGER CLMP		
30	86273360	2	SCR, CAP 6-32X3/8 SOCHD		
31	86195210	1	VALVE, UPHLST TL		
32	86195530	1	VALVE, ADJ-UPHLST TL VLV		
33	86189460	1	O-RING, 5/32IDX9/32OD VIT		
34	86182570	1	GASKET, UPHLST TL VLV		
35	86183770	1	HOSE, 3/16X6-1/2 (1/8P BS)		
36	86179740	1	D SC, 1/8MX1/8FP SST		
37	86192070	1	SCR, SET 3-32 X 1/4 SOCHD		
-	86178980	1	DECAL, UPHLST TL		
-	86186160	1	KIT, REPAIR-WAND VLV		INCLUDES PARTS 20-26



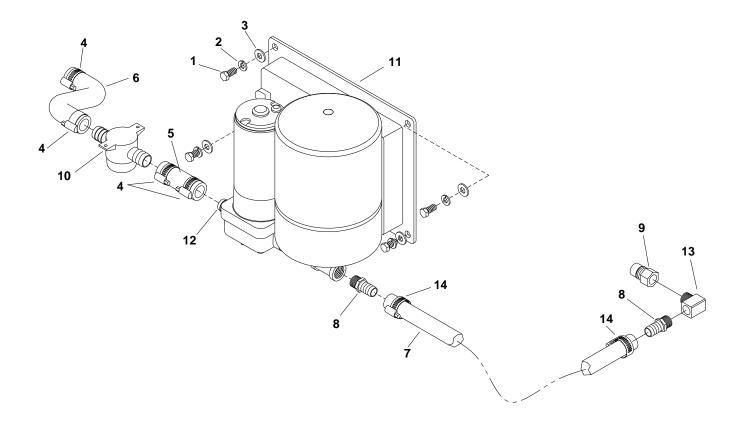
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	86354970	1	ASM, VAN STORAGE UNIT		COMPLETE
1	86363820	2	SHELF, LOWER TM		
2	86270330	20	FLATWASHER, 1/4		
3	86010780	20	WASHER, 1/4 SPLIT LOCK		
4	86274760	20	SCR, 1/4-20 X 1/2 HHCS PLTD		
5	86274750	4	SCR, 1/4-20 X 3/4 HHCS PLTD		
6	86398940	2	BRACKET, SLOTTED SHELF ASSY		
7	86175730	2	BRKT, ADJUST MTG HLDR		
8	86410010	1	DECAL, PROCHEM		
9	86363850	1	HLDR, STAIR TL		
10	86270620	4	LOCK NUT, 1/4-20 HXHD		
11	86024890	2	PANEL, SHLF END		
12	86278840	2	WASHER, NYLON		
13	86024900	1	DRAWER, SHELF GRAY		
14	86186850	1	LATCH, ADJ GRIP		
15	86363840	1	HLDR, UP TL HOS		
16	86363830	1	HLDR, UPHLST TL		



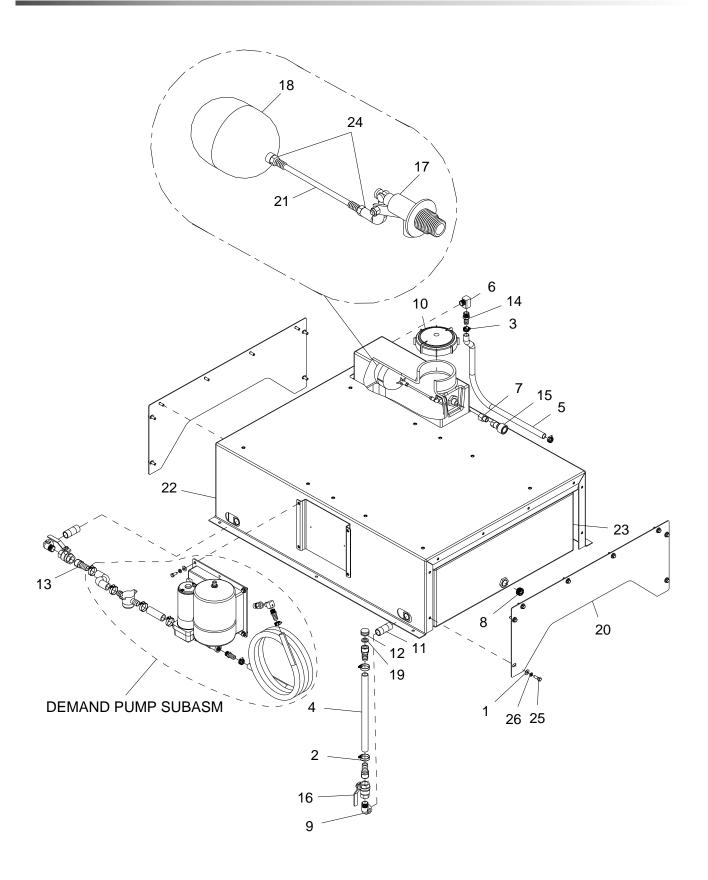
REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
-	86041580	1	ASSY, AUX WTR TNK W/PMP		COMPLETE
1	86277830	4	SCR, 3/8-16 X 2" HXHD		
2	86277850	1	SCR, 10-32 X 1" SOCHD SST		
3	86270330	4	FLATWASHER, 1/4		
4	86233110	4	CLAMP, 1.0" WORM GEAR		
5	86280550	1	HOSE, 5/8 ID X 55"		
6	86280290	1	HOSE, 3/4 ID WTR X 3"		
7	86280420	1	HOSE, 3/4 ID WTR X5.5"		
8	86280140	1	HOSE, 5/8 ID X 30 1/2		
9	86180170	2	ELL, STREET 1/2 BR MACH		
10	86180210	1	ELL, ST 3/8 BR		
11	86191600	1	RED, 1/2FP X 3/8P BR		
12	86176400	1	CAP, WATER BOX		
13	86188480	1	NIP, 3/4 X 2-1/2 BR		
14	86181320	1	FTTG, BRB 3/4PX3/4H BR		
15	86181360	1	FTTG, BRB 1/2 X 5/8H BR		
16	86181400	2	FTTG, BRB 3/8P X 5/8 BR		
17	86179710	1	DISCONNECT 3/8F X 3/8FP		
18	86179630	1	DISCONNECT 3/8M X 3/8FP		
19	86180900	1	FILTER, DEMAND PUMP		
20	86195330	1	VLV, BALL 3/4FP BS		
21	86192380	1	SEAT, FLOAT VLV TM		
22	86173820	1	ARM, PIVOT-FH VLV		
23	86174610	1	BDY, FLOAT VLV		
24	86348200	1	BALL, 4" DIA X 5"L, WHITE FLOAT		
25	86190740	1	PMP, WTR BOOSTER FLOJET 2		
26	86190170	4	PLATE, INSTALL MT		
27	86189010	1	NUT, FLOAT VALVE		
28	86028860	1	PISTON, FLOAT VLV PISTON		
29	86181150	1	FLOAT ROD, TM		
30	86186120	1	KIT, PORT DEMAND PUMP		
31	86180260	1	ELL,3/4 ST BR		
32	86270770	2	NUT, 1/4-20 HEX		
33	86270990	1	NUT, 10-32 HEX NYLOCK SS		
34	86005770	4	NUT, 3/8-16 HEX NYLOCK		
35	86274750	4	SCR, 1/4-20 X 3/4 HHCS PLTD		
36	86010780	4	WASHER, 1/4 SPLIT LOCK PLTD		
37	86279510	8	WASHER, 3/8 FLAT		
38	86369300	1	TNK, FRESH WATER 70G		
39	86369410	2	WELDMENT, WTR CNSL TNK STRAP		
40	86177260	3	CLMP,HOS#10 9/16MIN 1-1/		
-	86261290	1	HARNESS, WTR PMP SADDLE TANK		NOT SHOWN



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
-	86041730	-	TANK, DUAL SADDLE W/DMD PUMP		COMPLETE
-	86041710	-	SINGLE SADDLE TANK W/DMND PMP		COMPLETE
1	86048310	4	HOLD DOWN, SADDLE TANK GRAY		
2	86279510	16	WASHER, 3/8 FLAT		
3	86010790	16	WASHER 3/8 SPLIT LOCK		
4	86277830	16	SCR, 3/8-16 X 2' HXHD		
5	86176400	4	CAP, WATER BOX		
6	86180170	2	ELL, STREET 1/2 BR		
7	86181370	5	FTTG, BRB 1/2P X 3/4H BR		
8	86233110	4	CLAMP, 1.0" WORM GEAR		
9	86280590	1	HOSE, WTR 3/4 X 96		
10	86194120	1	TEE, 1/2 BRASS		
11	86043320	2	ASSY, BASE SADDLE TANK GRAY		
12	86030990	2	MOLDING, WATER TANK		
13	86190500	2	PLUG, 1/2 BRASS HXHD		
14	86190170	8	PLATE, INSTALL MT		
15	86005770	9	NUT, 3/8-16 HEX NYLOCK		
-	86285190	1	SHLR, CHEM, 10-GAL JUG		

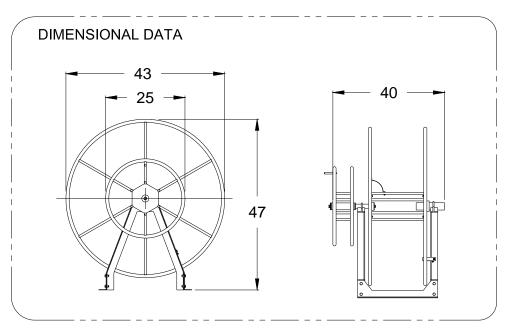


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
-	86191390	1	PUMP ONLY, TM DEMAND		
-	86186030	1	KIT SERVICE DEMAND PMP		
1	86006760	4	SCR, 5/16-18 X 3/4 HHCS GR5 PL TDL		
2	86279130	4	WASHER, 5/16 SPLIT LOCK PLTD		
3	86278830	4	WASHER, 5/16 FLAT		
4	86233110	4	CLAMP, 1.0" WORM GEAR		
5	86400880	1	HOSE, 3/4 ID WTR X 4.5"		
6	86280420	1	HOSE, WATER .75 X 5.5		
7	86280550	1	HOSE, 5/8ID BLU X 55"		
8	86181400	1	FTTG, BRB 3/8P X 5/8H BR		
9	86179630	1	DISCONNECT, 3/8M X 3/8FP		
10	86180900	1	FILTER, DEMAND PUMP		
11	86190740	1	PUMP, WATER BOOSTER		
12	86186120	1	KIT, PORT		
13	86180210	1	ELBOW, ST 3/8 BR		
14	86177260	2	CLMP,HOS#10 9/16MIN 1-1/		
-	86370150	1	ASSEMBLY, 40 PSI PRESS SWITCH		NOT SHOWN

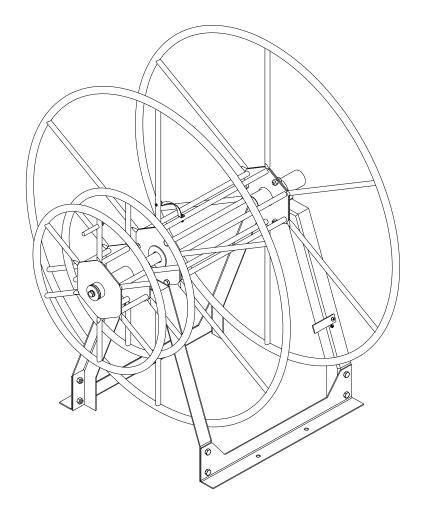


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES
-	86412440	-	SUB-ASSY,60G WTR TNK PC		COMPLETE
1	86278830	20	WASHER, 5/16 FLAT PLTD		
2	86233110	6	CLAMP, 1.0" WORM GEAR		
3	86177260	4	CLMP,HOS#10 9/16MIN 1-1/		
4	86280060	1	HOS, 3/4ID WTR X 13.5"		
5	86280100	1	HOS, 5/8ID BLU X 27		
6	86180170	1	ELL, STREET 1/2 BR MACH		
7	86191600	1	RED, 1/2FP X 3/8P BR		
8	86190190	1	PLG, 3/4 SOCHD BR		
9	86180260	2	ELL, 3/4 ST BR		
10	86176400	1	CAP, WATER BOX		
11	86188480	2	NIP,3/4 X 2-1/2 BR		
12	86176420	1	CAP, HOS 3/4 BR		
13	86181320	3	FTTG, BRB 3/8P X 3/4H BR		
14	86181360	1	FTTG, BRB 1/2P X 5/8H BR		
15	86179710	1	DSC, 3/8F X 3/8FP		
16	86195330	2	VLV, BALL 3/4 BS		
17	86195060	1	VALVE, FLOAT, TM		
18	86348200	1	BALL, 4" DIA X 5"L, WHITE FLOAT		
19	86195820	1	WSR, HOS 5/8ID 1"OD		
20	86412400	2	PL, FRT TANK SUPPORT		
20B*	86050960	2	PL,FRT TANK SUPPORT		1.001-163.0
21	86181150	1	ROD, FLOAT 1/4-20 X 6" SS		
22	86412390	1	ENCL, TNK SUPT W/DEM PMP		
22B	86047580	1	ENCL,TNK SUPT W/DEM PMP		1.001-163.0
23	86030970	1	MLDG, WTR TNK, 60G W/OVRFI		
24	86270770	2	NUT, 1/4-20 HEX		
25	86006750	16	SCR, 5/16-18 X 1.00 HHCS GR5		
26	86279130	20	WASHER, 5/16 SPLIT		

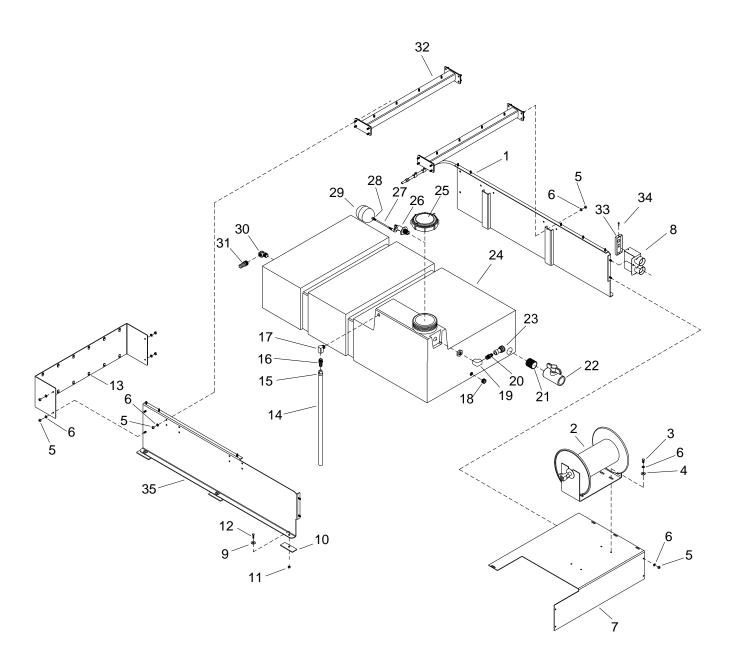
^{*}B: Diamond Pro Machines Only



OVERALL DIMENSIONS: 47" TALL 40" WIDE

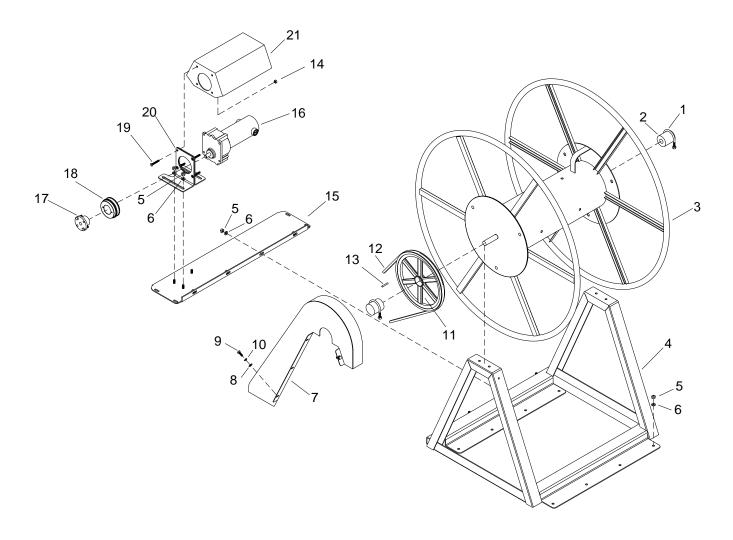


REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
-	86373960	1	HOSE REEL, 300 FT W/SMALL REEL		COMPLETE



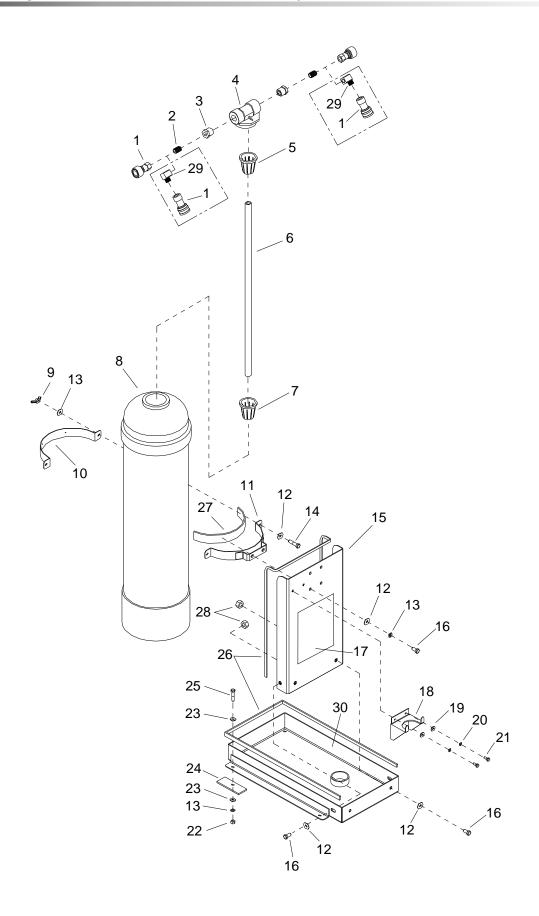
REF	P/N	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
-	86412620	1	MOTORIZED HOSE REEL PC, GRY		COMPLETE
1	86412630	1	BASE, RT SD HOE RL MTR, GRY		•
2	86191830	1	RL, HOS HP SOL		
3	86006760	4	SCR, 5/16-18 X 3/4 HHCS		
4	86278830	4	WASHER, 5/16 FLAT PLTD		
5	86005650	24	NUT, 5/16-18 HEX		
6	86279130	28	WASHER, 5/16 SPLIT LOCK PLTD		
7	86412650	1	BASE, HOS RL FRT & TOP, GRY		•
8	86046520	1	BX, SW HOS RL MTR		
9	86279510	6	WASHER, 3/8 FLAT		
10	86190170	6	PLATE, INSTALL MT		
11	86005770	6	NUT, 3/8-16 HEX NYLOCK		
12	86275150	6	SCR, 3/8-16 X 1 3/4 HHCS PLT		
13	86412660	1	PNL, DEMAND PMP MT, GRY		•
14	86280100	1	HOSE, WTR 5/8 X 27		
15	86177260	2	CLMP,HOS#10 9/16MIN 1-1/		
16	86181360	1	FTTG, BRB 1/2P X 5/8 BR		
17	86180170	1	ELL, STREET 1/2 BR		
18	86190190	1	PLG, 3/4 SOCHD BR		
19	86180250	1	ELL, 1/2 BR		
20	86188210	1	NIP, 1/2 X 3/8 HEX BR		
21	86188470	1	NIP, 1-1/2 X CL PVC (SCH80)		
22	86195010	1	VALVE, BALL PVC 1-1/2FP		
23	86179710	1	DSC, 3/8F X 3/8FP		
24	86030980	1	MLDG, WTR TANK 95GAL W/OVERFLW		
25	86176400	1	CAP, WATER BOX		
26	86195060	1	VALVE, FLOAT		
27	86181150	1	FLT ROD		
28	86270770	1	NUT, 1/4-20 HEX		
29	86348200	2	BALL, 4" DIA X 5"L, WHITE FLOAT		
30	86180260	1	ELL, 3/4 ST BR		
31	86181320	1	FTTG, BRB 3/4P X 3/4H BR		
32	86412670	2	BASE, CROSS BAR TB HS RL, GRY		•
33	86051770	1	PNL, SW BX CVR PLT MTR		
34	86161960	3	SCR, #8 X 1/2 PPHST BLK		
35	86412640	1	BASE,LF SD HOS RL MTR DR, GRY		•
-	86261360	1	CABLE, RETAIN VAC PLG		

[●] WHEN ORDERING INDICATE PART NUMBER AND COLOR

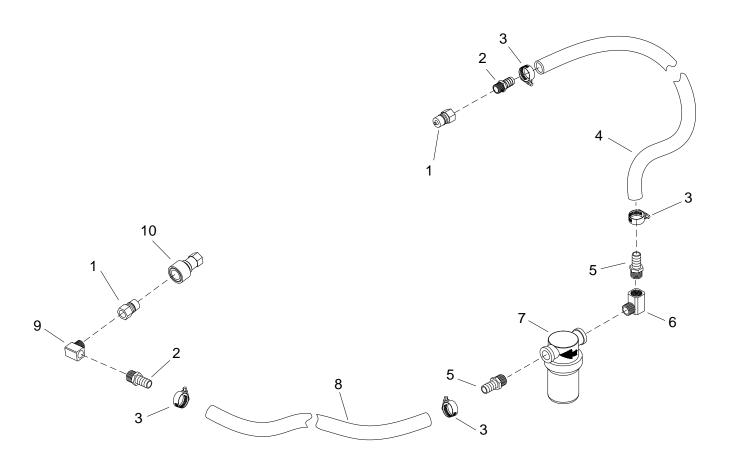


REF	P/N	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86177270	2	CLAMP, MFLR 1-3/4		
2	86175990	2	BUSHING, HOSE REEL		
3	86412680	1	RL, VAC HOS-HOS RL MTR DR, GRY		•
4	86412690	1	BASE, MTR HOSE REEL, GRY		•
5	86005650	16	NUT, 5/16-18 HEX		
6	86279130	16	WASHER, 5/16 SPLIT LOCK PLTD		
7	86047910	1	GUARD, BELT MOTORIZED REEL		
8	86270330	4	FLATWASHER, 1/4		
9	86274750	4	SCR, 1/4-20 X 3/4 HHCS PLTD		
10	86010780	4	WASHER, 1/4 SPLIT LOCK PLTD		
11	86191090	1	PULL, AK104		
12	86324350	1	BELT, AX66 GOODYEAR MATCH		
13	86135960	1	KEY, 3/16 X 1 1/8		
14	86270770	4	NUT, 1/4-20 HEX		
15	86412700	1	BASE, MTR MT PNL HOS RL, GRY		•
16	86187870	1	MOT, 1/8HP 12V EP5786		
17	86185360	1	HUB, H1/2		
18	86191100	1	PULL, AK32H		
19	86192100	4	SCR, CAP 1/4-20 X 1-1/2 FLT		
20	86050110	1	MT, MTR HOS RL MTR DRIVE		
21	86047450	1	CVR, HOS RL MTR CVR		

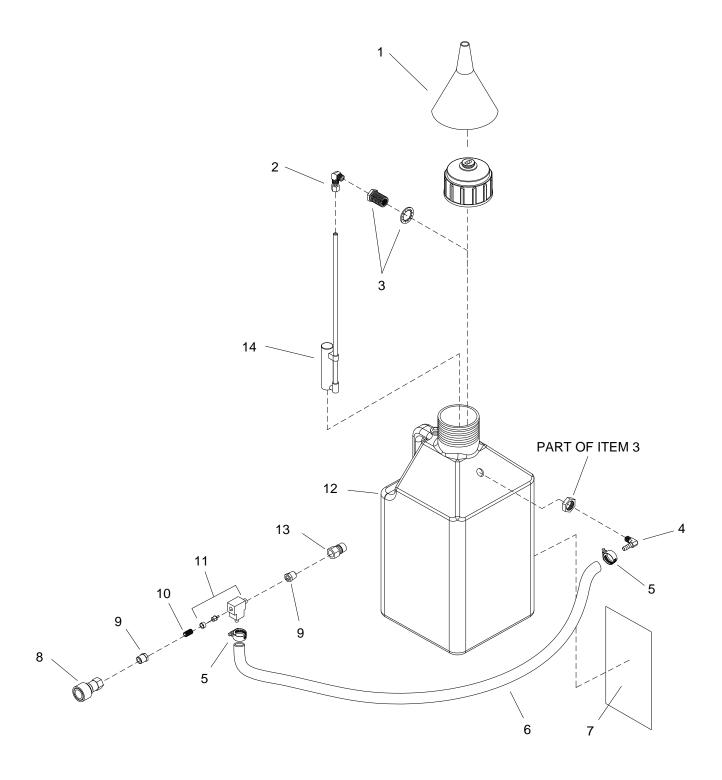
WHEN ORDERING INDICATE PART NUMBER AND COLOR



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
-	86041740	1	WATER SOFTENER 30" PC		COMPLETE
1	86179710	2	DCS, 3/8F X 3/8FP		
2	86188220	2	NIP, 3/8 X CL SST		
3	86175880	2	BUSH, 3/4 X 3/8 ALUM		
4	86173650	1	ADPT, TNK#50-0271		
5	86179650	1	DIST, TOP #41-2514		
6	86057920	1	TB, PVC 13/16X27"		
7	86177590	1	COLLECTOR, LWR #41-2410		
8	86349450	1	TANK, WATER SOFTNER, BLUE 30"		
9	86270710	2	NUT, WING 3/8-16		
10	86057120	1	STRAP, WTR, SOFT CLAMP		
11	86047140	1	CLAMP, TNK WTR SOFT		
12	86279510	8	WASHER, 3/8 FLAT		
13	86010790	12	WASHER, 3/8 SPLIT LOCK		
14	86275190	2	SCREW, 3/8-16 X 1.25 HHCS SS		
15	86054050	1	PNL, SOFT MTG-WTR SOFT CIR GRAY		
16	86006920	4	SCR, 3/8-16 X 3/4 HHCS GR5 PLTD		
17	86179160	1	DEC, CDNSD REGEN OPER		
18	86048330	1	HLDR, FLTR-WTR SOFT		
19	86270330	2	FLATWASHER, 1/4		
20	86010780	2	WASHER, 1/4 SPLIT LOCK PLTD		
21	86275890	2	SCR, 1/4-20 X 5/8 HHCS PLTD		
22	86005650	4	NUT, 5/16-18 HEX		
23	86278830	8	WASHER, FLAT PLTD		
24	86190170	4	PLATE, INSTALL MT		
25	86274690	4	SCR, 5/16-18 X 1.5 HHCS BR5PLT		
26	86194660	2	TRIM, FLX 1/16 X 29/64 BLK		
27	86411920	1	GSKT, FOAM-WTR SOFT 12"		
28	86005770	4	NUT, 3/8-16 HEX NYLOCK		
29	86180210	2	ELL, ST 3/8 BR		OPTIONAL
30	86349090	1	TRAY, RECT, WTR SOFTNER		
-	86189750	1	PAPER,WTR HARDNESS		NOT SHOWN



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86179630	1	DISCONNECT, 3/8M X 3/8FP		
2	86181400	2	FTTG, BRB 3/8P X 5/8H BR		
3	86177260	4	CLMP, HOS#10 9/16MIN		
4	86280140	1	HOSE, WTR 5/8X 30-1/2		
5	86181360	2	FTTG, BRB 1/2P X 5/8H BR		
6	86180170	1	ELL, STREET 1/2 BR		
7	86193510	1	STRNR, IN-LINE 1/2FP BS		
8	86280130	1	HOSE, WTR 5/8X 97		
9	86180210	1	ELL, ST 3/8 BR		
10	86179710	1	DSC, 3/8F X 3/8FP		



REF	PART NO.	QTY	DESCRIPTION	SERIAL NO. FROM	NOTES:
1	86195930	1	FUNNEL, BIG BLU		
2	86180470	1	ELL, 1/4P X 3/8 POLY BR		
3	86177620	1	CONN, 1/4P BLKHD LNG BR		
4	86180480	1	ELL, BRB 1/4P X 1/4H BR		
5	86176990	2	CLAMP, HOSE #4 SST		
6	86280630	1	HOSE, 1/4ID NYLOBRD X 30"		
7	86179160	1	DEC, CDNSD REGEN OPER		
8	86179710	1	DSC, 3/8F X 3/8FP		
9	86175920	2	BUSH, 3/8 X 1/8 BR		
10	86247720	1	NIPPLE, 1/8 CLOSE		
11	86195460	1	VLV, INJ W/#1JET		
12	86185720	1	JUG, 5 GAL		
13	86179630	1	DISCONNECT 3/8M X 3/8FP		
14	86195410	1	VLV,AIR CHK W/STEM PURCH'D		

REF. NO.	MODEL: SERIAL #
1	RESERVED