

OPERATION AND SERVICE MANUAL

Legend Brands, Inc. 15180 Josh Wilson Rd. Burlington, WA 98233 800-932-3030 LegendBrandsRestoration.com Congratulations on your purchase of the **Dri-Eaz HVE-LL Large Loss** Extraction Unit. This instruction and parts manual is a guide for operating and servicing your **Dri-Eaz HVE-LL** equipment.

Proper operation and service are necessary to ensure the outstanding performance of this unit. When properly maintained, your unit will have a long and trouble-free life.

The following service methods outlined in this manual are detailed in a manner that operation and servicing may be performed properly and safely. Because service levels vary due to the skill of the mechanic, tools and parts availability, ensure that prior to attempting any maintenance or repair, you are familiar with the equipment and have all the proper tools to complete the task. Please call a **Dri-Eaz** service representative at 800-932-3030 for help with maintenance, repair and warranty related questions.

The headings "WARNING" and "CAUTION" are utilized to warn you that steps must be taken to prevent personal injury or damage to the equipment. Please make sure that you have read and understand these instructions entirely before proceeding with the operation of this unit.

THIS UNIT MUST BE INSTALLED BY THE DEALER THAT YOU PURCHASED IT FROM IN ACCORDANCE WITH THE DRI-EAZ INSTALLATION PROCEDURES.

This unit was manufactured y:

Legend Brands, Inc. 15180 Josh Wilson Rd. Burlington, WA 98233 USA WARNING! Do not alter or modify your HVE-LL in any way. Use only replacement parts authorized by Dri-Eaz. Modifications or use of unapproved parts could create a hazard and will void your warranty. Contact a Dri-Eaz service representative at 800-932-3030 for assistance.

Please complete the warranty registration form at www.Dri-Eaz. com

This service and operations manual is written specifically for the **HVE-LL** unit.

Published by Dri-Eaz. Printed in USA

HVE-LL MANUAL DRI-EAZ P/N 49-166 The information contained in this document is subject to change without notice and does not represent a commitment on the part of **Dri-Eaz**.

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LIMITED WARRANTY

Dri-Eaz HVE-LL

What Does This Warranty Cover?

This warranty covers the Dri-Eaz Model HVE-LL and is provided to the original purchaser only.

How Long Does This Warranty Last?

This warranty runs for:

Two (2) years from the date of installation on parts and labor (Excluding normal maintenance items.) Factory installed original belts are covered for 500 hours. Recovery tank and frame are covered for five years. All other components including seals, O-rings and electrical components are covered for the entire two year warranty period.

What Legend Brands Will Do:

If a defect in materials or workmanship occurs within the warranty period, Dri-Eaz at its election will repair or replace the defective part at no charge.

What This Warranty Does Not Cover:

This warranty does not cover or apply to defects due directly or indirectly to misuse, abuse, disassembly, alteration, corrosive chemicals, improper voltage, improper fuel, fire, flood, negligence, accident, improperly or incorrectly performed maintenance or repair, or failure to perform necessary or recommended maintenance or repair (See your Owner's Manual) or if the use of this product is not in compliance with the instructions and specifications for its use. This warranty does not cover normal maintenance items such as air and oil filters, lubricants and tune up parts. Paint is not covered. Water box, recovery tank and frame are covered for five years. All other components including seals, O-rings and electrical components are covered for the entire two year warranty period. We limit all implied warranties to:

Two (2) years from the installation date on parts and labor.

OTHER THAN THE WARRANTIES PROVIDED HEREIN, DRI-EAZ MAKES NO EXPRESS OR IMPLIED, ORAL OR WRITTEN WARRANTIES WITH RESPECT TO THIS PRODUCT OR WORKMANSHIP AND ALL WARRANTIES IMPLIED BY LAW INCLUDING ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE LIMITED TO THE DURATION OF THIS WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. WE SHALL IN NO EVENT BE LIABLE FOR DEATH, INJURIES TO PERSONS OR PROPERTY OR FOR INCIDENTAL, CONTINGENT, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM USE OF OUR PRODUCTS. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

How Do I Get Service?

In order to be eligible for service under this warranty you MUST do the following: (a) fill out the warranty registration card on-line within thirty (30) days of the installation of our product; (b) write or call a service representative at Dri-Eaz for a return material authorization (RMA); and (c) have the serial number available. Proof of proper maintenance may be required before warranty is granted.

Contact us at:

Legend Brands, Inc. 15180 Josh Wilson Road Burlington, WA 98233 Phone: 800-932-3030

If Dri-Eaz uncovers a defect we will repair or replace the product, at our election. Ground shipping and transportation costs will be covered by the manufacturer. Returning defective parts to the manufacturer, if required, shall be the responsibility of the purchaser. Warranty may be denied if defective parts are not returned within the allotted 30 days. If it is determined that there is no defect in the product, or that the defect resulted from causes not within the scope of our warranty, then the product will be repaired or replaced only at your request and at your expense and you must bear all shipping costs.

How Does State Law Apply?

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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SECTION ONE: GENERAL INFORMATION

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CONTACT INFORMATION

For information about unit operation, maintenance or repair of your Dri-Eaz equipment, please contact your local distributor.

To locate a local distributor, please visit our web site: LegendBrandsRestoration.com

North American Distributors: LegendBrandsRestoration.com

If you need to contact Dri-Eaz directly, for questions regarding this manual, service questions that cannot be resolved by your distributor, or other general information, please contact our service department here:

Phone: 800-932-3030

Service Email: service@legendbrands.com

Please fill in the information below so that you will have it on hand when contacting your distributor or Dri-Eaz.

| Serial Number: | |
|-------------------------------|--|
| Date of Purchase: | |
| Purchased From (Distributor): | |

WARNINGS AND CAUTIONS



Dri-Eaz uses this WARNING symbol throughout the manual to warn of the possibility of physical injury or fatality. Please read all warnings carefully before operating the equipment.



Dri-Eaz uses this CAUTION symbol throughout the manual to warn of the possibility of damage to equipment or personal property.

FOR YOUR SAFETY

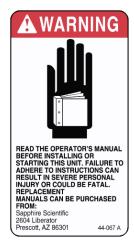
The following warning labels are on your **HVE-LL** console. These labels point out important **WARNINGS** and **CAUTIONS**, which must be followed at **ALL** times. Failure to follow these warnings could result in injury or fatality to yourself and/or others or property damage. Please follow these instructions carefully! **Do NOT remove these decals**.

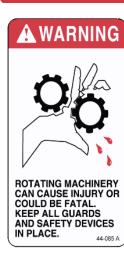


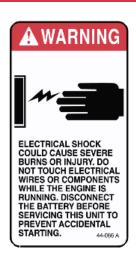
WARNING:

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.

44-080 A







ROTATING
MACHINERY.
WATER UNDER
PRESSURE AT HIGH
TEMPERATURE.
IMPROPER
MODIFICATION OF
EQUIPMENT CAN
CAUSE SEVERE
PERSONAL INJURY
OR COULD BE
FATAL.



DO NOT MODIFY UNIT WITHOUT WRITTEN PERMISSION FROM MANUFACTURER

44-082

DO NOT RUN ENGINE WITH COVER OFF VOIDS WARRANTY

44-081 A



1. Read the operator's manual before starting this unit.

Failure to adhere to instructions could result in severe personal injury or could be fatal.



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



△ WARNING

3. **Gasoline is extremely flammable and its vapors can explode if ignited**. Store gasoline only in approved containers, in well-ventilated, unoccupied buildings and away from sparks or flames.



4. **DO NOT** operate unit if gasoline is spilled. Do not turn ignition switch until the gasoline has been cleaned up. Never use gasoline for cleaning purposes.

△ WARNING

5. **DO NOT** place hands, feet, hair, clothing or any body parts near rotating or moving parts. Rotating machinery can cause severe injury or death.

AWARNING

6. **NEVER** operate this unit without belt and safety guards. High speed moving parts, such as belts and pulleys should be avoided while the unit is running. Severe injury, fatality and/or damage may result.

△ WARNING

7. **NEVER** service a unit while it is running. High speed mechanical parts as well as high temperature components and fluids may result in severe injury or fatality.

A WARNING

8. Engine and vacuum pump components, hoses and fittings will be extremely hot from operation. To prevent severe burns, **DO NOT** touch these areas while the unit is running, or shortly after the unit is shut off.

WARNING

9. **DO NOT** touch any part of the exhaust system while the system is running or for 20 minutes after the unit is shut off. Severe burns could result.

WARNING

10. **Battery acid contains sulfuric acid**. To prevent acid burns, avoid contact with skin, eyes and clothing. Batteries also produce explosive hydrogen gases while charging. To prevent fire or explosion, charge batteries only in a well ventilated area. Keep sparks, open flames, as well as other sources of ignition away from battery at all times. Remove all jewelry prior to servicing batteries. Keep batteries out of the reach of children.

Before disconnecting the negative (–) ground cable, ensure that all switches are in the off position. If on, a spark could occur at the ground connection terminal which could cause an explosion if hydrogen gas or gasoline vapors are present. ALWAYS disconnect the negative (–) terminal first

WARNING

11. **DO NOT** smoke around the equipment. Gas fumes could accumulate and ignite. Battery gasses are extremely flammable. This will prevent possible explosions.

WARNING

12. **NEVER** cut or splice any of the equipment fuel lines. This will result in fuel leaks and potentially dangerous conditions. Use only the provided fuel hose for fuel lines.

△ WARNING

13. The Occupational and Health Administration (OSHA) recommends the use of hearing protection when a technician is exposed to an average of 85 decibels (this is an average of exposure over an 8 hour period). This equipment can produce 85 decibels at a distance of 10 feet. Please check with your local state agencies to see if OSHA standards apply to your application.

△ WARNING

14. California Proposition 65 Warning: Engine exhaust from this product contains chemicals known by the State of California to cause cancer, birth defects, or other reproductive harm.



1. Always keep your equipment clean and maintained. Proper performance relies heavily on regularly maintained hoses, tools, filters and strainer baskets.



2. Ensure that you have received proper training and are familiar with the start-up and shut-down procedures prior to operation.



3. **DO NOT** alter or modify your **Dri-Eaz HVE-LL** in any way. Use only replacement parts authorized by **Dri-Eaz**. Modifications or use of unapproved parts could create a hazard and will void your warranty. This includes the use of any open ended hoses.



4. **Do NOT** run the waste pump dry. Doing so will damage the pump impeller.

SPECIFICATIONS

| Engine Speed | 3000 RPM (High Speed/No Load) |
|------------------------------------------|-------------------------------|
| | 1500 RPM (Idle / No Load) |
| | |
| Vacuum Pump RPM | 3519 RPM @ 3000 Engine RPM |
| Vacuum Relief Valve | 13 in. Hg |
| | |
| Waste Pump RPM | 1305 RPM @ 3000 Engine RPM |
| Waste Pump GPM | 45 GPM @ 3000 Engine RPM |
| | |
| Recovery Tank Capacity at Shut-Off | 83 gallons |
| Recovery Tank Gross Capacity | 93 gallons |
| | |
| Console/Tank Weight (empty) | 700 lbs. |
| | |
| Console/Tank Weight (full recovery tank) | 1401 lbs. |
| | |

TORQUE VALUES

| Engine Hub Rear | 10 ft./lbs. (122 in./lbs.) | |
|------------------|----------------------------|--|
| Engine Hub Front | 10 ft./lbs. (122 in./lbs.) | |
| Vacuum Pump Hub | 10 ft./lbs. (122 in./lbs.) | |

FUEL REQUIREMENTS

Use unleaded fuel ONLY. Use only fresh, clean unleaded gasoline with a minimum octane rating of 87. **Do Not** use high octane gasoline. Gasoline with up to, not exceeding, 10% ethanol is acceptable.

Gasoline older than 30 days must be discarded and replaced with fresh gasoline.

NOTE: Using other gasoline/alcohol blends including E20 and E85 will cause damage to engine components and will void the warranty.

NOTE: The Dri-Eaz HVE-LL is equipped with a fuel cell for open air operation, it is not to be used in an enclosed space. This includes but not limited to vans, trailers, storage units or inside a facility. When operating on the fuel cell supplied with the unit equipment must be placed outside in an open air environment.

Do not fill the fuel cell in any enclosed space. Remove the entire unit or fuel cell before fueling.

For bolt in permanent installations of equipment in a vehicle a certified fuel tap system engineered for the make and model must be used.

ENGINE OIL REQUIREMENTS

Use high-quality oil of at least API (American Petroleum Institute) service class SG, SH, SJ or higher. **Do not use additives.** High quality 30W oil is recommended. A 10-30 synthetic blend may be used after 50 hours of operation for a new or rebuilt engine to allow the piston rings to properly seat. It is never recommended to extend oil change intervals past 100 hours.

| Engine oil canacity | 1.8 L |
|---------------------|------------|
| Engine oil capacity | 1.9 US qts |

| Tightening | Drain | 13.6 N·m |
|------------|-------|-------------|
| | | 1.4 kgf·m |
| torque | Plug | 10.0 lbf·ft |

BATTERY CONNECTION



Explosive gases, Dangerous gases!

Batteries contain sulfuric acid. To prevent acid burns, avoid contact with skin, eyes and clothing. Batteries also produce explosive hydrogen gases while charging. To prevent fire or explosion, charge batteries only in a well ventilated area. Keep sparks, open flames, as well as any other sources of ignition away from batteries at all times. Remove all jewelry prior to servicing batteries. Keep batteries out of the reach of children.

Before disconnecting the negative (-) ground cable, ensure that all switches are in the OFF position. If ON, a spark could occur at the ground connection terminal, which could cause an explosion if hydrogen gas or gasoline vapors are present. ALWAYS disconnect the negative (-) terminal first.

A. Attach the red positive (+) battery cable from the starter solenoid on the console to the positive (+) terminal on the battery and tighten down the nut.

B. Attach the black negative (-) battery cable from the ground on the console to the negative (-) terminal on the battery and tighten down the nut

RECEIVING YOUR EXTRACTION SYSTEM

ACCEPTANCE OF SHIPMENT

Your Dri-Eaz HVE-LL system was thoroughly tested, checked and inspected in its entirety prior to leaving our manufacturing facility. When receiving your unit, please make the following acceptance check:

- 1. The unit should not show any signs of damage. If there is damage, notify the deliverer immediately.
- 2. Carefully check your equipment. The HVE-LL system should arrive with the following items as well as any additional optional accessories you may have ordered:

EQUIPMENT LISTING

- HVE-LL console
- HVE-LL recovery tank
- Operation and service manual
- Recovery tank 3 in. air filter
- Stainless steel strainer basket
- 200 ft. length of 2 in. vacuum hose
- One 50 ft. length of layflat hose
- Group 24 battery holder
- 12 gallon fuel tank
- Toolbox

- 45 in. hose reel
- 23 in. hose reel
- Fuel pump and filter
- Fuel line extension
- Extraction Wand
- Owner's manual

SECTION TWO: OPERATION

UNDERSTANDING THE SYSTEMS

NOTE: Read and understand this section of the manual entirely before proceeding.

Prior to proceeding into the operations and maintenance sections of this manual it is recommended that you acquire a basic understanding of how the unit functions.

VACUUM SYSTEM

The flow of vacuum is initiated by the vacuum pump, which draws air through the recovery tank. A mixture of air and water is drawn into the recovery tank through a vacuum inlet near the front of the machine. Behind this inlet is a pre-filter box, which contains a strainer basket to stop the majority of larger debris from entering the recovery tank. The air and water continue to the recovery tank to a secondary strainer basket. Here in the recovery tank, water and air separate. Water is deposited into the recovery tank while the air exits through a 100 mesh filtration system, into the vacuum pump. A relief valve is installed for vacuum pump protection.

The air is discharged from the vacuum pump through a spiral silencer which then exits through the exhaust pipe on the front of the unit.

A high level shut off sensor is located on the front of the recovery tank and will shut down the unit before the tank is at full capacity. This protects the vacuum pump from water damage.

Note: Recovery tank high level shut off will not shut the unit off due to high levels of foam.



CAUTION

Do not alter the vacuum speed outside the recommended range shown in this manual. Doing so can result in severe damage to the unit and voidance of warranty.



CAUTION

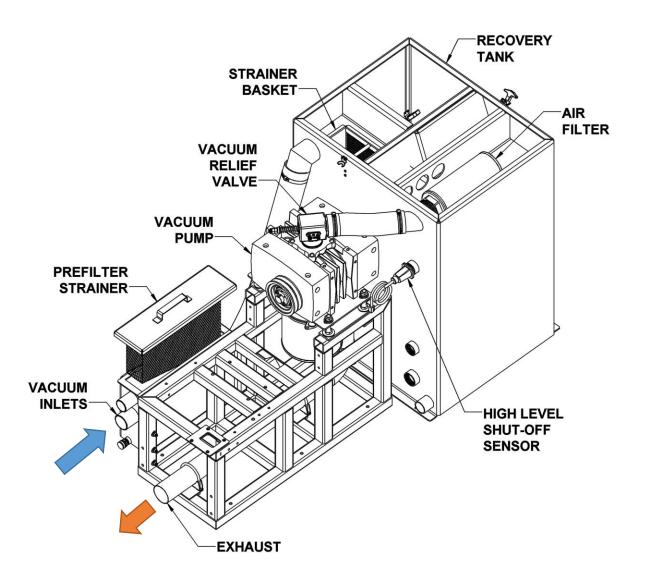
Recovery tank level shut-off will not detect high foam levels. Foam entering the vacuum pump can cause damage to the unit. The use of a quality defoamer is recommended.

A red indicator lamp will illuminate to alert the operator when the tank is full, the unit will shut down and the waste water needs to be disposed of before the operation can continue.

IN ACCORDANCE WITH EPA, STATE AND LOCAL LAWS, DO NOT DISPOSE OF WASTE WATER INTO **GUTTERS, STORM DRAINS, STREAMS, RESERVOIRS OR ANY NON-COMPLIANT RECEPTACLE.**

Always check local laws and regulations regarding "gray" water disposal. The penalties for noncompliance can be serious.

VACUUM SYSTEM DIAGRAM



WASTE PUMP SYSTEM

The Dri-Eaz HVE-LL is equipped with an automatic waste pump-out system which removes water from the recovery tank so that the unit can continue to extract larger volumes of water than the recover tank can hold.

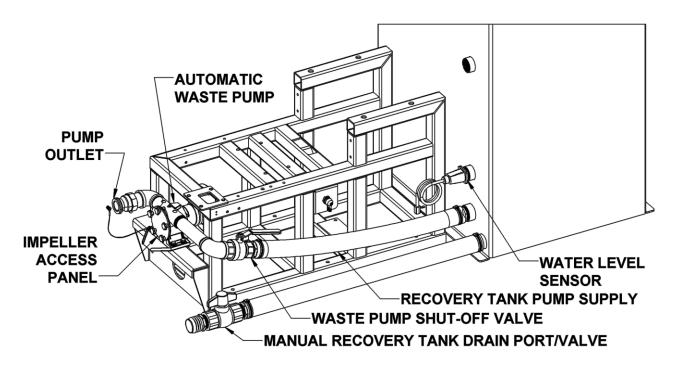
When turned on, the waste pump is automatically activated by a water level sensor in the recovery tank. This sensor prevents the pump from running dry and only activates the pump when there is enough water in the recovery tank to begin the removal process. Water is pumped from the supply port on the recovery tank, through the pump and out the outlet fitting.

A shut-off valve is connected to the pump to prevent leaking when not in use. Never run the pump with the valve in the off position. Running the pump dry will cause severe damage to the pump.

The recovery tank is also supplied with a manual drain port. The manual drain port must be used to drain remaining water and debris from the bottom of the recovery tank between jobs and during periods of storage.

During cold weather, with the unit turned OFF, drain remaining water from the pump by loosening the thumb screws on the impeller access panel and pulling the panel away from the pump slightly to let the water drain out. This will prevent damage that can be caused to the pump by freezing.

WASTE PUMP SYSTEM DIAGRAM



OPERATION

This section of the operator's manual explains how to prepare, start, operate, shut down and maintain your **HVE-LL** direct-drive cleaning unit. The **HVE-LL** unit is easy to operate, however only trained operators should proceed.

WARNING 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 death. DO NOT run this unit in an enclosed area. DO NOT operate this unit where the exhaust may enter a building doorway, window, vent or any other opening.

PREPARATION

ENSURE THERE IS ADEQUATE FUEL

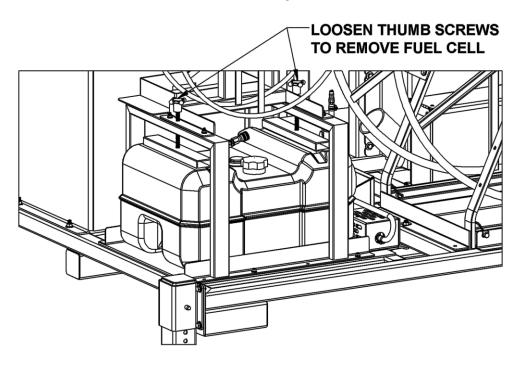
Ensure there is adequate fuel to complete the job.

USING THE FUEL CELL

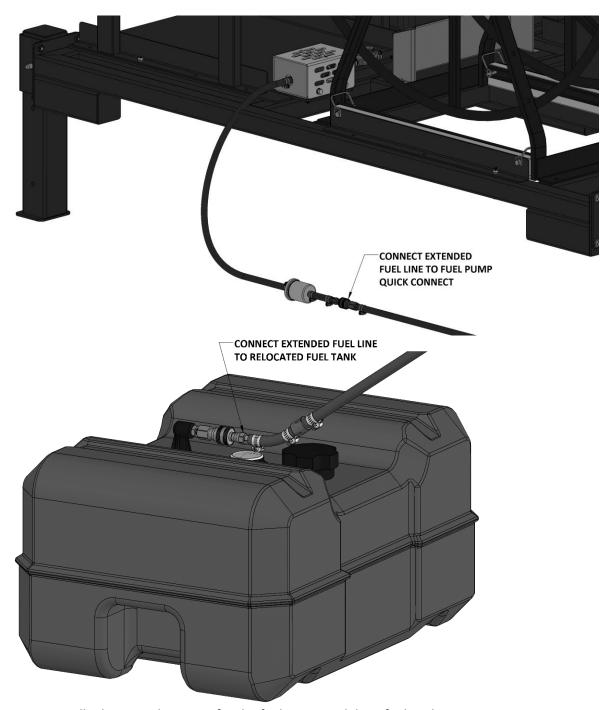
The Dri-Eaz HVE-LL is equipped with a fuel cell for open air operation, it is not to be used in an enclosed space. This includes but not limited to vans, trailers, storage units, box trucks or inside a facility.

If running the unit in an enclosed truck, van or trailer, the fuel tank must be removed from the enclosed space and set outside prior to operating the unit. Place the fuel tank away from heat sources and in an area where it will not be damaged or tipped over. The fuel tank must be no more than 5 feet lower than the base of the unit.

Loosen the thumb screws in the unit frame cradle to remove the fuel tank. Make sure that the fuel line is disconnected from the tank before removing.



Using the supplied extended fuel line kit, connect the hose between the fuel tank and the unit, making sure the quick disconnects are securely fastened.



NOTE: It will take several minutes for the fuel pump to deliver fuel to the unit.

Do not fill the fuel cell in any enclosed space. Remove the entire unit or fuel tank before fueling.

For bolt in permanent installations of equipment in a vehicle a certified fuel tap system engineered for the make and model must be used.

RETURNING THE FUEL TANK

To return the fuel tank to the unit, disconnect the extended fuel line from the tank only. Start the unit with the tank disconnected to draw as much residual fuel from the line. Allow the unit to run in idle until it runs out of fuel. Disconnect the extended fuel line from the unit and replace the fuel tank into the cradle on the unit frame. Reconnect the fuel hose from the fuel pump to the tank.



Do not operate machine with covers or guards removed.

CHECK YOUR DRAIN VALVES

Make sure the recovery tank and pre-filter box drains are closed.

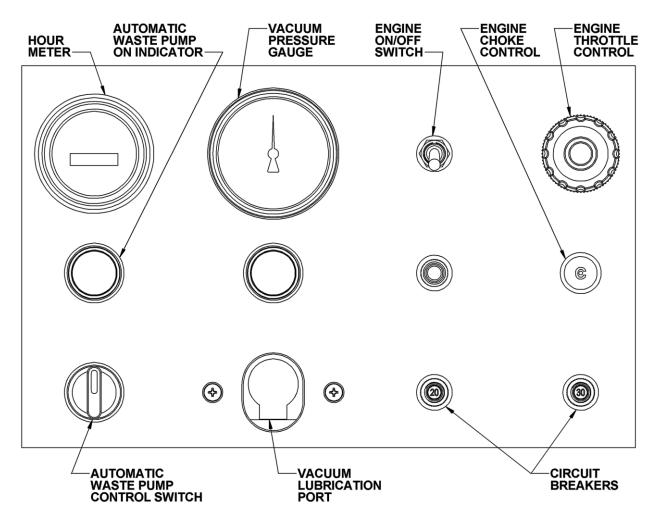
CHECK FILTERS

Inspect the vacuum inlet filter and strainer basket in the recovery tank. Inspect the strainer basket inside the pre-filter box. See the Shut Down and Daily Maintenance section below for more information.



NEVER operate the unit with the recovery tank air filter removed, damaged or not properly installed.

INSTRUMENT PANEL READINGS AND SETTINGS



HOUR METER

The hour meter records the operating time of the machine. This information is used to calculate maintenance and service intervals. See the Service And Maintenance section in this manual for more information.

VACUUM GAUGE

With the unit running, the vacuum gauge should read near zero with vacuum hoses disconnected from the pre-filter box. If the gauge shows a reading, check the filter in the recovery tank and the strainer baskets in both the recovery tank and pre-filter box for debris. With vacuum ports sealed, and machine running at high speed, the vacuum gauge should read 11 to 13 inches of mercury (in. Hg). This is preset for the maximum safe operation.



DO NOT exceed 13 in. Hg vacuum pressure. This can cause damage to the vacuum pump.

PUMP OUT ON (INDICATOR LIGHT)

The pump out indicator light will turn on when the automatic waste pump is activated in either the ON or OVR positions on the PUMP OUT switch.

TANK FULL (INDICATOR LIGHT)

The tank full indicator light will turn on when the high level sensor switch has been activated in the recovery tank. The unit will shut down if running when this light comes on. Empty the recovery tank to restore operation and turn this indicator light off.

PUMP OUT SWITCH (ON/OFF/OVR)

The pump out switch is used to turn the pump on, off or temporarily on using the OVR position, which overrides the float switch in the recovery tank. Override is only used for a very short period when needed to evacuate standing water from the pump and line from the recovery tank.



Running the pump dry for any length of time will cause damage to the pump impellers and void your warranty.

VAC LUBE

The vacuum relief valve lubrication port is used to deliver lubrication to the vacuum pump. This prevents rust from building up inside the pump. See the shut-down and daily maintenance sections for more information.

RUN/OFF TOGGLE SWITCH

The run/off toggle switch allows the engine to start when switched to RUN.

ENGINE START BUTTON

The engine start button provides ignition to start the engine when pressed. The RUN/OFF toggle switch must also be set to RUN for the engine to operate.

THROTTLE CONTROL

The engine throttle control knob. Turn counter-clockwise to open the throttle (faster speed), clockwise to close the throttle (slower speed). For emergency slow-down, depress the center button and push the throttle control in.

CHOKE CONTROL

The engine choke control knob. Pull to open the choke for engine ignition.

CIRCUIT BREAKERS

Main and waste pump circuit breakers.

STARTING THE UNIT

STARTING THE ENGINE

- 1. Set the **THROTTLE** control in, pull out engine **CHOKE**.
- 2. Flip the engine on/off switch to **RUN**, press the **START** button to start the engine.
- 3. Once the engine is running, push in the engine **CHOKE**.
- 4. Set the **THROTTLE** to the desired speed.

NOTE: Do not operate the unit with the throttle set below 50% of maximum throttle setting.

CONNECT THE VACUUM HOSE

Connect the vacuum hose to the vacuum inlet connection at the front of the console on the pre-filter box. Connect the opposite end of the vacuum hose to the extraction tool. Make sure that the port you are not using is capped.

AUTOMATIC WASTE PUMP

When using your automatic waste pump:

- 1. Connect the lay-flat hose to the pump-out connection and the other end to an acceptable waste disposal.
- 2. Turn the pump-out switch located on the front console control panel to the **ON** position. The waste pump will now operate automatically throughout the cleaning period.



Running the pump dry for any length of time will cause damage to the pump impellers and void your warranty.



NEVER dispose of waste water in a storm drain, water way or on ground areas. Always dispose of waste in accordance with Local, State and Federal laws.

EXTRACTION PROCESS

After you have completed the previous steps, proceed with the extraction process. Place the throttle control lever to the desired speed for extraction. A float shut-off switch is located inside of the recovery tank. It will automatically shut down the unit if the tank reaches its full capacity and the indicator light on the instrument panel will turn on. If this occurs, empty the recovery tank before continuing.

SHUT DOWN AND DAILY MAINTENANCE

- 1. Remove as much moisture from the vacuum hoses and extraction tool as possible. This will prevent spilling of waste water when recoiling the hoses onto the reel.
- 2. Disconnect the vacuum hoses from the unit, leaving the vacuum port(s) open.
- 3. Make sure the PUMP OUT switch is in the OFF position after use.
- 4. Push the throttle control knob in to run at idle.
- 5. Allow the unit to run for 2 to 3 minutes. This will help to remove any excess moisture from the vacuum pump.

NOTE: If shutting down for the day – plug the vacuum inlet(s) and set the throttle to 50% of maximum throttle. Spray a quality silicone or Teflon/PTFE based lubricant into the vacuum lubrication cup located on the lower front panel for 10 seconds. Run the unit for 1 to 2 minutes to lubricate the vacuum pump. Unplug the vacuum inlet and return the throttle control knob to run at idle.

- 6. Turn the RUN/OFF toggle switch to the OFF position to shut down the engine.
- 7. Make sure the recovery tank is completely drained manually into an approved source.



NEVER dispose of wastewater in a storm drain, water way or on ground areas. Always dispose of waste in accordance with Local, State, and Federal laws.

- 8. Remove the strainer baskets and clean thoroughly before replacing.
- 9. Check the recovery tank filter for debris.

NOTE: To remove the vacuum inlet filter, grip the plastic hexagon section of the filter. Gripping the filter by the screen will collapse or destroy the filter. After cleaning, grease the threads on the filter and replace the filter. Tighten the filter until hand tight and then loosen ¼ turn. This will make the filter easier to remove when cleaning or replacement is required.



NEVER operate this unit with the filter removed, damaged or improperly installed.

At the end of the work day, rinse out the recovery tank with fresh water.

Clean the unit, tools, hoses etc., as needed. Inspect **ALL** equipment and accessories for any damage, leaks, wear, etc.

AUTOMATIC SHUT DOWNS

When the recovery tank is full, the machine will shut down and a red indicator light will illuminate on the instrument panel. If this happens, make sure the PUMP OUT switch is in the OFF position and empty the recovery tank into an approved source to resume operation.

FREEZE PROTECTION

WINTERIZING YOUR UNIT



If the waste pump is exposed to freezing weather conditions, the water inside of the pump may freeze, resulting in SERIOUS DAMAGE to the impeller. Water freezes at 32° F and 0° C. The following is recommended to prevent this from occurring during the cold weather season:

- 1. If possible, store the unit in a heated building when not in use.
- 2. To winterize the unit, loosen the thumb screws from the front plate of the automatic waste pump until the plate can pull away from the pump allowing the remaining water to drain out.
- 3. Drain the water into a container and dispose of the water into an approved waste water source.
- 4. Drain the pump between jobs in freezing weather conditions to prevent damaging the waste pump impeller.

SECTION THREE: SERVICE AND MAINTENANCE

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ROUTINE MAINTENANCE CHART

DAILY MAINTENANCE

| Engine | Check engine oil level. (1) Fill to proper level. |
|---------------------|----------------------------------------------------------------------------------------|
| Vacuum Pump | Check vacuum pump oil level. Fill to proper level. Do not overfill. (2) |
| Vacuum Pump | Spray silicone or Teflon/PTFE based lubricant into the lubrication cup for 10 seconds. |
| Vacuum Inlet Filter | Inspect filter, clean and or replace. (2) |
| Strainer Baskets | Empty and clean stainless steel baskets in the recovery tank and pre-filter box. |
| Vacuum Hoses | Rinse with fresh water. (2) |
| Waste Pump | Inspect and remove any debris or sediment. (2) |

WEEKLY MAINTENANCE

| Engine | Check air filter for damaged, dirty or loose parts. |
|-------------------|--------------------------------------------------------|
| Float Switches | Clean and inspect float switches in the recovery tank. |
| Visual Inspection | Check for leaks in the equipment. |

MONTHLY MAINTENANCE

| Engine | Inspect drive belts for wear. Replace as needed. |
|-------------------|---------------------------------------------------------------------|
| Engine | Inspect air intake and cooling areas. Clean if required. |
| Battery | Check fluid level. Fill with distilled water only. Do not overfill. |
| Battery Terminals | Check vehicle battery terminals. Clean as needed. |
| Wiring Harness | Check wiring throughout for signs of chafing or wear. |
| Check fasteners | Check fastener tightness on all components. Tighten as needed. |

To maximize the operating life and performance, use only recommended oils, filters and greases.

- (1) Change engine oil and oil filter after first 5 to 8 hours of operation.
- (2) Or as often as required.
- (3) Inspect after first week of operation, and remove any debris present. Inspect again after 2 to 4 weeks.

SERVICE CHART

SERVICE INTERVALS – EVERY 100 HOURS

| Engine | Change engine and oil filter. (1) |
|---------------------|--------------------------------------------------------------|
| Vacuum Relief Valve | Check and adjust vacuum relief valve up to 13" Hg if needed. |
| Belts | Re-tension all belts (2) |
| Battery | Clean battery terminals |

SERVICE INTERVALS – EVERY 200 HOURS

| Engine | Clean engine air filter. |
|--------|-------------------------------------------|
| Engine | Check spark plugs and clean if necessary. |

SERVICE INTERVALS – EVERY 500 HOURS

| Engine | Replace inline fuel filter. (3) |
|------------------|-----------------------------------------------|
| Pulleys and Hubs | Check pulleys and hubs for proper torque. (4) |

SERVICE INTERVALS – EVERY 1000 HOURS

| Engine | Replace spark plugs |
|-------------|-----------------------------------|
| Engine | Replace air filter element. |
| Belts | Replace all belts. |
| Vacuum Pump | Drain, flush and replace oil. (5) |

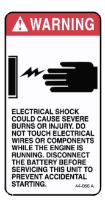
To maximize the operating life and performance, use only recommended oils, filters and greases.

- (1) Change engine oil and oil filter after first 5 to 8 hours of operation.
- (2) Re-tension belts after first 25 hours, then every 100 hours of operation after.
- (3) Or every 6 months, whichever comes first.
- (4) Check pulley and hub set screws after first 50 hours of operation, and again at 100 hours of operation.
- (5) Every **1000 hours** or **yearly**, whichever comes first.

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MAINTENANCE

This section of the operator's manual contains the service and maintenance information for the HVE-LL unit. A planned preventative maintenance program will ensure that your HVE-LL has optimum performance, long operating life, and a minimum amount of down time.









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

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

ENGINE

Check engine oil daily. Ensure that the proper oil level is maintained. NEVER overfill.

Change the oil after the first 5 to 8 hours of operation. Thereafter, change oil filter every 50 to 100 hours of operation.

Note: Use only Kohler brand oil filters. Use of any other type of oil filter will void engine warranty.

Use high-quality oil of at least API (American Petroleum Institute) service class SG, SH, SJ or higher. **Do not use additives.** High quality 30W oil is recommended. A 10-30W synthetic blend may be used after 50 hours of operation for a new or rebuilt engine to allow the piston rings to properly seat. It is never recommended to extend oil change intervals past 100 hours

| Engine Oil Capacity | 1.8 L |
|---------------------|------------|
| | 1.9 US qts |

| Tightening Torque | | | |
|-------------------|--------------------------|--|--|
| | 13.6 N·m | | |
| Drain Plug | 1.4 kgf·m 10.0 lbf·ft | | |
| | 10.0 lbf·ft | | |

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

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Check the spark plugs every **200 hours** and clean if necessary. Replace spark plugs every **1000 hours. NEVER** sandblast spark plugs. Spark plugs should be cleaned only by scraping or wire brushing.

Clean the engine air filter element every 200 hours. Replace the element every 1000 hours.

NOTE: Additional engine service information can be obtained from the provided Kohler Operation and Maintenance manual. If service or repair is required, contact an authorized Kohler Service Center. They will require the serial number of the engine.

VACUUM PUMP

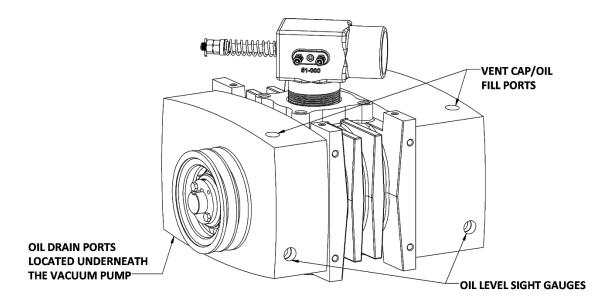
NOTE: Refer to the provided Vacuum Pump Operation and Service Manual for specific instructions.

Lubrication: Dri-Eaz *requires* that you use only AEON PD-XD Synthetic vacuum pump Lubricant in both sides of the vacuum pump for all operating temperatures. AEON PD-XD is formulated specifically for positive displacement vacuum pump service to provide maximum vacuum pump protection at any temperature.

NOTE: AEON PD-XD (Part # 13-004) is the only oil that Dri-Eaz puts in the vacuum pump at the factory. Adding petroleum oil to synthetic oil is **NOT** recommended.

Check the oil level **daily** on both sides to ensure they are at the proper level. Too little oil will damage and ruin the bearings and gears. Too much oil will result in overheating.

NOTE: Two drains are on your vacuum pump. Ensure that **BOTH** sides of the vacuum pump are filled to their proper level when servicing.



A lubrication cup has been provided at the front of the console, to prevent rust from building up inside of the vacuum pump.

Plug the vacuum ports and spray a quality silicone or Teflon/PTFE based lubricant into the vacuum lubrication cup for 10 seconds. This procedure should be done at the end of **every working day**.

Drain, flush and replace the oil every 1000 hours or yearly, whichever comes first.

VACUUM INLET FILTER

The vacuum inlet filter in the recovery tank should be inspected and cleaned daily.



When removing the vacuum inlet filter, grip the plastic hexagon section of the filter. Grasping filter by the screen will damage or destroy the filter. Applying grease to the threads will allow easier removal of filter when cleaning or replacement is required.

PRE-FILTER BOX AND RECOVERY TANK STRAINER BASKETS

Any strainer baskets used in the system should be emptied and cleaned on a daily basis.

VACUUM HOSES

To ensure maximum hose life, Dri-Eaz recommends that you wash out the hoses with fresh water daily.

DRIVE BELTS, PULLEYS AND HUBS

Check pulley set screws and hub screws after the first **25 hours** of operation and again at **100 hours.** Retorque these screws with a torque wrench. Follow the torque values on the following table. Check pulley set screws and hub screws every **500 hours** thereafter.

NOTE: Ensure belts are properly tensioned after checking the torque values. Use Gates EPDM belts.



Ensure that when you re-torque the screws, you use a clockwise pattern and continue until the proper torque is achieved.

| TORQUE VALUES | | | | |
|-------------------------|----------|----------|--|--|
| Component | Inch/lbs | Foot/lbs | | |
| Vacuum Pump Hub #38-032 | 180 | 15 | | |

BELT REPLACEMENT PROCEDURES FOR THE HVE-LL

- 1. Disconnect the negative battery terminal.
- 2. Remove the hose from the recovery tank to the vacuum pump.
- 3. Remove hoods.
- 4. Remove top panel.
- 5. Remove left and right hand belt guards.
- 6. Remove the clamp between the blower and the silencer.
- 7. Loosen all 4 blower mounting nuts.
- 8. Slide the blower back (away from engine).
- 9. Lower front two nuts located under the front of the blower mounting plate approximately 1/2".
- 10. Tip the back of the blower up.

- 11. Remove all belts. Install new belts.
- 12. Reverse procedures to install new belts, lower the back of the blower and slide the blower forward, raising the front two nuts to the same height as the rear nuts.
- 13. Tighten all nuts to tension belts, checking for proper tension and alignment. Use a belt gauge to check tension. Set deflection to 1/8"; 10 to 12 lbs. of tension.
- 14. Check pulleys for alignment using a straight edge (example: 1/2" key stock bar). Make sure pulley flange touches on 2 places on each pulley (4 total).

(Estimated time 2 hours)

GENERAL SERVICE ADJUSTMENTS



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

VACUUM RELIEF VALVE

With the unit running at high speed, block off the airflow at the vacuum inlet port and read the vacuum gauge. If adjustment is required, shut the unit down and adjust the locking nut tension on the vacuum relief valve. Re-start the unit and read the vacuum gauge. Repeat this process until the vacuum relief valve opens at 13" Hg. Always ensure the lock nut is retightened and the cotter pin is replaced.



To reduce the risk of injury: NEVER obstruct the vacuum port with your hand or other body part. Keep hair, loose clothing and all body parts away from vacuum port openings while unit is in operation.

TROUBLESHOOTING



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

This section of the operator's manual describes how to look for and repair malfunctions, which may occur. Accurate troubleshooting is based on a thorough and complete understanding of the ENGINE, **VACUUM, SAFETY** and **WIRING** systems featured in this unit.

If there are malfunctions occurring on this unit which you do not understand, refer back to the **OPERATION** section of this manual and review **SYSTEM**.

ENGINE TROUBLESHOOTING

ENGINE WILL NOT START (STARTER DOES NOT TURN OVER)

| 21101112 111122 1101 0171111 (0171111 201 | .5 1101 101111 0 1211, |
|-----------------------------------------------|--------------------------------------------------------------------|
| PROBABLE CAUSE | SOLUTION |
| Main circuit breaker on the control panel has | After inspecting the unit to determine the cause of the tripped |
| been tripped. | breaker, press the reset button. |
| Loose or corroded battery connections. | Clean, tighten or replace the battery terminals. |
| Dead battery. | Recharge or replace battery |
| Defective ignition button. | Test ignition button for power going into the circuit. If there is |
| | power going in, but none coming out, replace the button. |
| Defective starter motor. | Test the starter motor. Replace if necessary. |
| Vacuum pump seized. | Refer to the vacuum pump manufacturer service and repair |
| | manual. |

STARTER TURNS OVER BUT ENGINE WILL NOT START

| PROBABLE CAUSE | SOLUTION |
|-----------------------------------------------|---------------------------------------------------------------|
| Recovery tank is full. | Empty the recovery tank. |
| Defective fuel pump. | Replace the fuel pump. |
| Loose or broken wires leading to the recovery | Repair or replace any broken electrical connections. |
| tank float switch. | |
| Defective float switch inside recovery tank. | Check switch for proper operation. Replace if necessary. |
| Oil pressure switch (located on engine), fuel | Test these components. If any are defective, replace. Consult |
| shut-off solenoid (located on engine). | the Kohler Engine Operation and Maintenance Manual. |
| Engine is malfunctioning. | Refer to Kohler Engine Operation and Maintenance Manual. |

ENGINE STOPS RUNNING DURING NORMAL OPERATION

| PROBABLE CAUSE | SOLUTION |
|-----------------------------------------------|-----------------------------------------------------------------|
| Engine is out of gasoline. | Check the fuel tank. |
| Recovery tank is full. | Empty recovery tank. |
| Main circuit breaker on the control panel has | After inspecting the unit to determine the cause of the tripped |
| been tripped. | breaker, press the reset button. |
| Defective fuel pump. | Replace fuel pump. |
| Defective float switch inside recovery tank. | Check switch for proper operation. Replace if necessary. |
| Oil pressure switch on engine has shut down | Refer to the Kohler Engine Operation and Maintenance |
| due to insufficient oil pressure. | Manual. DO NOT restart the engine until the cause is |
| | determined and corrected. |
| No ignition in the engine or the engine is | Refer to the Kohler Engine Operation and Maintenance |
| malfunctioning. | Manual. |

VACUUM PUMP TROUBLESHOOTING

LOSS OF VACUUM (while cleaning, engine RPM is normal but vacuum is lower than expected)

| PROBABLE 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 gasket. Repair seal or replace Re-position lid(s). |
| Plugged vacuum hose or vacuum plumbing between vacuum inlet and strainer basket. | Unplug vacuum hose or inlet plumbing. |
| Waste tank filter or strainer basket is plugged. | Clean or replace filter. Clean strainer basket. |
| Loose vacuum pump drive belts. | Tighten the drive belts. |
| Waste tank drain valve is damaged or left open, causing a vacuum leak. | Drain the waste tank. Close drain valve, if open. Replace valve if defective. |
| Vacuum relief valve requires adjustment 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 pump is worn out. | Replace the vacuum pump. |

WASTE PUMP TROUBLESHOOTING

WASTE PUMP IS MALFUNCTIONING

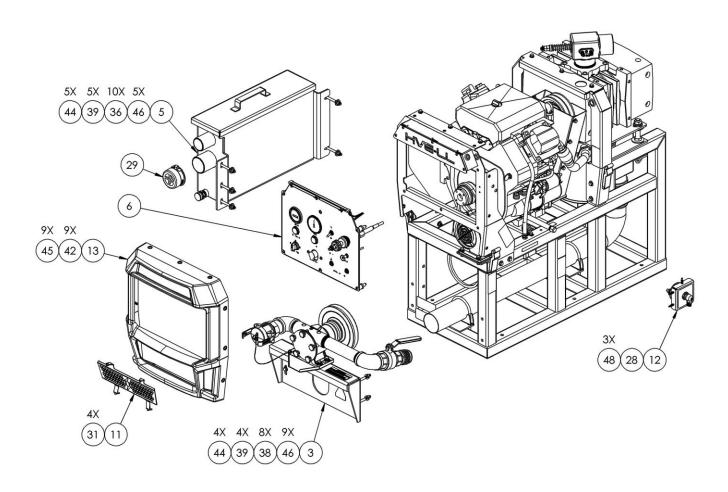
| PROBABLE CAUSE | SOLUTION |
|----------------------------------------------|-----------------------------------------------------------|
| Defective waste pump float switch. | Replace float switch. |
| Broken impeller in pump. | Replace impeller. |
| Pump out circuit breaker on instrument panel | After inspecting waste pump to determine the cause of the |
| has tripped. | overloaded circuit, press reset button. |
| Ball valve closed. | Open valve. |
| Weak battery. | Charge or replace battery. Check charging station. |

SECTION FOUR: PARTS AND ACCESSORIES

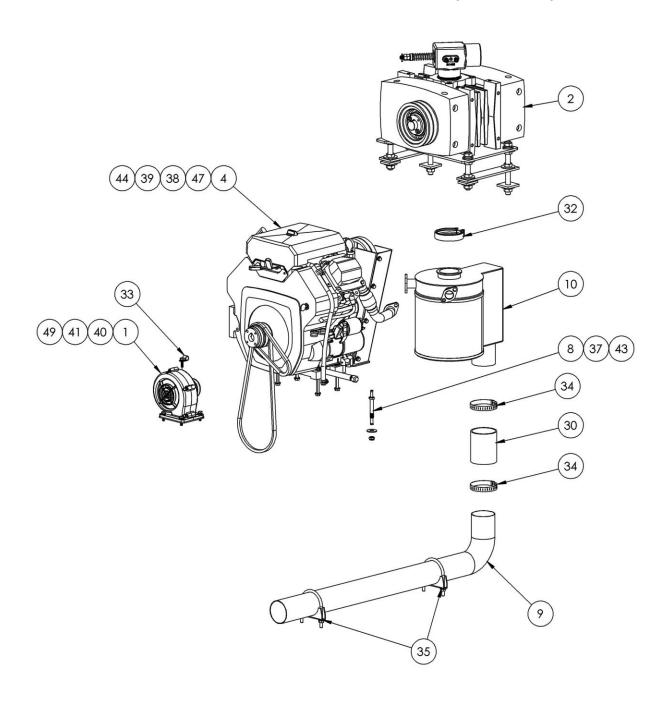
ILLUSTRATED PARTS LISTING

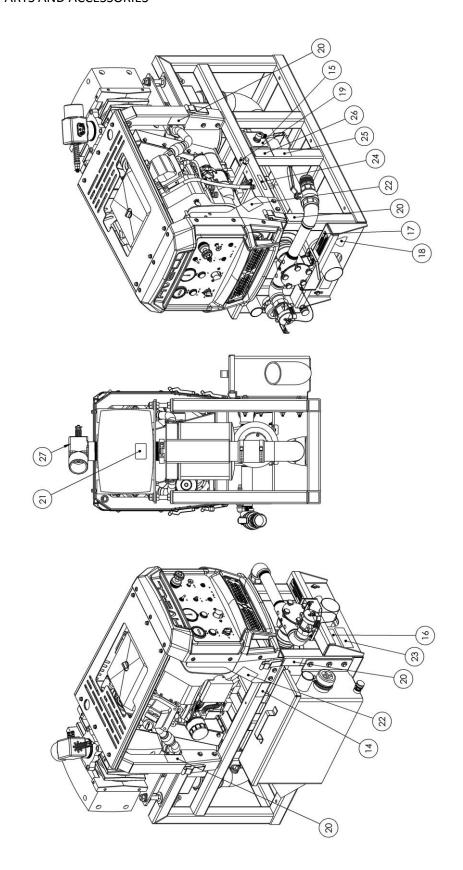
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70-300HVE, CONSOLE, DRI-EAZ HVE-LL (FIG. 1 OF 3)



70-300HVE, CONSOLE, DRI-EAZ HVE-LL (FIG. 2 OF 3)

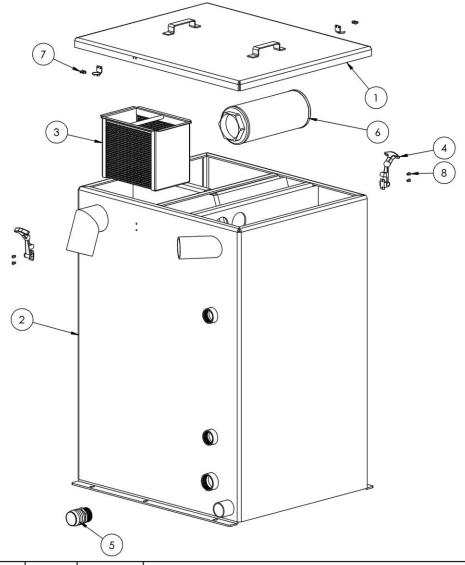




70-300HVE, CONSOLE, DRI-EAZ HVE-LL – BOM TABLE

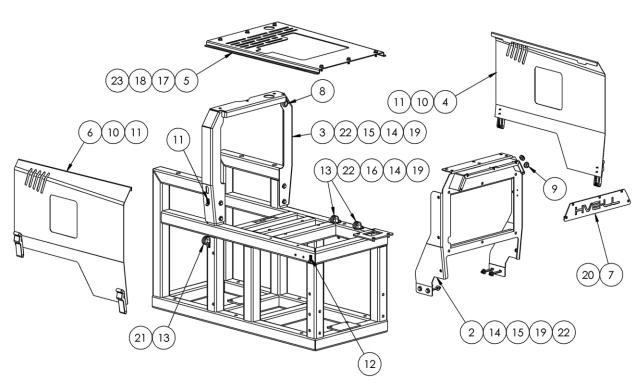
| 3 | | 40 | 10.004 | SCREW MACH 1/4 20 V 1 HVHD |
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| 4 47 10-145 SCREW, MACH 5/16-18 X 4 HXHD 9 46 10-174 SCREW, MACH 5/16-18 X 3 HXHD 9 45 10-420 SCREW, MACH 1/4-20 X 5/8 BHSCS ZP 14 44 11-005 NUT, 5/16-18 ZINC 1 43 11-088 NUT, 7/16-20 THIN NYLOK ZPS 9 42 12-002 WASHER, FLAT #12 SANC 4 41 12-011 WASHER, FLAT #12 SANC 4 40 12-015 LKWSR, 1/4 ZINC 14 39 12-016 LKWSR, 5/16 ZINC 16 38 12-017 WASHER, FLAT, 5/16 SAE ZINC 16 38 12-017 WASHER, FLAT, 5/16 USS ZP 2 35 14-002 CLAMP, HOSE #48 SS 2 35 14-002 CLAMP, HOSE #48 SS 1 33 14-024 CLAMP, 21-2 V-BAND 4 41 31 14-120 RIVET, 1/8 X 25 HD .126-187 GRIP ALUM BLK 4 in 30 16-108 HOSE, 3.0 IN DX 3FT SILCONE SSOF 1 | 4 | 49 | 10-026 | SCREW, MACH 1/4-20 X 1 HXHD |
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| 1 43 11-088 NUT, 7/16-20 THIN NYLOK ZPS 9 42 12-002 WASHER, FLAT 1/4 SS ANC 4 41 12-011 WASHER, FLAT 1/4 SS ANC 14 40 12-015 LKWSR, 1/4 ZINC 14 39 12-016 LKWSR, 5/16 ZINC 16 38 12-017 WASHER, FLAT 5/16 SAE ZINC 10 36 12-057 WASHER, FLAT, 7/16 ZINC 11 37 12-021 WASHER, FLAT, 7/16 ZINC 10 36 12-057 WASHER, FLAT, 7/16 ZINC 11 37 12-021 WASHER, FLAT 5/16 USS ZP 2 35 14-002 CLAMP, MUFFLER 3 IN 2 34 14-022 CLAMP, HOSE \$48 SS 1 33 14-029 CLAMP, HOSE \$48 SS 1 33 14-029 CLAMP, 1/2 ID VINYL COVERED 1 32 14-046 CLAMP, 2-12 V-BAND 4 31 14-P-120 RIVET, 1/8 X. 25 HD. 126187 GRIP ALUM BLK 4 IN 30 16-108 HOSE, 3.0 IN ID X 3FT SILICONE 550F 1 29 19-013 CAP, PLUG 2.50IN RUBBER 1 28 29-079 SWITCH, BATTERY DISCONNECT 1 27 44-062 TAG, MAX VAC 13 HG 1 26 44-066 DECAL, WARNING READ MANUAL 1 24 44-079 DECAL, WARNING, UNLEADED FUEL ONY 1 23 44-080 DECAL, WARNING, USE IN WELL VENTILATED AREA 2 22 44-081 DECAL, ENGINE COVER WARRANTY 1 21 44-084 DECAL, ENGINE COVER WARRANTY 1 1 29 44-095 DECAL, WARNING ROTATING MACHINERY 1 1 19 44-095 DECAL, CAUTION HOT SUBFACE 4 20 44-085 DECAL, CAUTION HOT SUBFACE 1 1 16 44-278 DECAL, CAUTION HOT SUBFACE 1 1 17 44-276 DECAL, PUMP FREEZE PROTECTION 1 1 16 44-278 DECAL, PUMP FREEZE PROTECTION 1 1 15 58-977 PNL, GRILL 370-0A 1 1 10 61-1326 WELDMENT, SILENCER 1 1 11 58-977 PNL, GRILL 370-0A 1 1 6-69-1012 ASSY, PRAME AND ENCICOSURES 1 6-69-1012 ASSY, PREFILTER BOX 1200 1 1 2 68-804 ASSY, WASTE PUMP OUT 1 2 68-804 ASSY, WASTE PUMP OUT 1 2 68-804 ASSY, MAILED BELT GUARD BLOWER | | | | |
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| 1 23 44-080 DECAL, WARNING, USE IN WELL VENTILATED AREA 2 22 44-081 DECAL, ENGINE COVER WARRANTY 1 21 44-084 DECAL, ENGINE COVER WARRANTY 4 20 44-085 DECAL, CAUTION HOT SURFACE 4 20 44-085 DECAL, WARNING ROTATING MACHINERY 1 19 44-095 DECAL, ENGINE OIL DRAIN 1 18 44-187 DECAL, ENGINE OIL DRAIN 1 18 44-187 DECAL, CO DANGER TRIANGLE 1 16 44-276 DECAL, PUMP FREEZE PROTECTION 1 16 44-278 DECAL, WARNING CA PROP 65 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 14 44-313 DECAL, SERIAL 1 11 58-977 PNL, GRILL 370A 1 11 58-977 PNL, GRILL 370A 1 10 61- | 1 | 25 | 44-067 | DECAL,WARNING READ MANUAL |
| 2 22 44-081 DECAL, ENGINE COVER WARRANTY 1 21 44-084 DECAL, CAUTION HOT SURFACE 4 20 44-085 DECAL, WARNING ROTATING MACHINERY 1 19 44-095 DECAL, ENGINE OIL DRAIN 1 18 44-187 DECAL, CO DANGER TRIANGLE 1 17 44-276 DECAL, PUMP FREEZE PROTECTION 1 16 44-278 DECAL, WARNING CA PROP 65 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 1 61-1327 WELDMENT, EXHAUST TUBE 1 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1012 ASSY, FRAME AND ENCLOSURES 1 69- | 1 | 24 | 44-079 | DECAL, WARNING, UNLEADED FUEL ONY |
| 1 21 44-084 DECAL, CAUTION HOT SURFACE 4 20 44-085 DECAL, WARNING ROTATING MACHINERY 1 19 44-095 DECAL, ENGINE OIL DRAIN 1 18 44-187 DECAL, CO DANGER TRIANGLE 1 17 44-276 DECAL, PUMP FREEZE PROTECTION 1 16 44-278 DECAL, WARNING CA PROP 65 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 4 69-797 | 1 | 23 | 44-080 | DECAL, WARNING, USE IN WELL VENTILATED AREA |
| 4 20 44-085 DECAL, WARNING ROTATING MACHINERY 1 19 44-095 DECAL, ENGINE OIL DRAIN 1 18 44-187 DECAL, ENGINE OIL DRAIN 1 17 44-276 DECAL, CO DANGER TRIANGLE 1 16 44-278 DECAL, PUMP FREEZE PROTECTION 1 16 44-278 DECAL, WARNING CA PROP 65 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 | 2 | 22 | 44-081 | DECAL, ENGINE COVER WARRANTY |
| 1 19 44-095 DECAL, ENGINE OIL DRAIN 1 18 44-187 DECAL, CO DANGER TRIANGLE 1 17 44-276 DECAL, PUMP FREEZE PROTECTION 1 16 44-278 DECAL, WARNING CA PROP 65 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, | 1 | 21 | 44-084 | DECAL, CAUTION HOT SURFACE |
| 1 18 44-187 DECAL, CO DANGER TRIANGLE 1 17 44-276 DECAL, PUMP FREEZE PROTECTION 1 16 44-278 DECAL, WARNING CA PROP 65 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 69-826 ASSY, MOLDED BELT GUARD BLOWER< | 4 | 20 | 44-085 | DECAL, WARNING ROTATING MACHINERY |
| 1 17 44-276 DECAL, PUMP FREEZE PROTECTION 1 16 44-278 DECAL, WARNING CA PROP 65 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 19 | 44-095 | DECAL, ENGINE OIL DRAIN |
| 1 16 44-278 DECAL, WARNING CA PROP 65 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, BNGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 18 | 44-187 | DECAL, CO DANGER TRIANGLE |
| 1 15 44-285 DECAL, BATTERY DISCONNECT 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 17 | 44-276 | DECAL, PUMP FREEZE PROTECTION |
| 1 14 44-313 DECAL, SERIAL 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 16 | 44-278 | |
| 1 13 51-114 THERMOFORM, BEZEL 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 15 | 44-285 | DECAL, BATTERY DISCONNECT |
| 1 12 58-889 PANEL, SWITCH MOUNT 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 14 | 44-313 | DECAL, SERIAL |
| 1 11 58-977 PNL, GRILL 370A 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 13 | 51-114 | THERMOFORM, BEZEL |
| 1 10 61-1326 WELDMENT, SILENCER 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 12 | 58-889 | PANEL, SWITCH MOUNT |
| 1 9 61-1327 WELDMENT, EXHAUST TUBE 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 11 | 58-977 | PNL, GRILL 370A |
| 1 8 66-359 FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 10 | 61-1326 | WELDMENT, SILENCER |
| 1 7 69-1011 ASSY, FRAME AND ENCLOSURES 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | | 9 | 61-1327 | WELDMENT, EXHAUST TUBE |
| 1 6 69-1012 ASSY, CONTROL PANEL 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 8 | 66-359 | FITTING, 1/4 X 5/16 FUEL LINE MANIFOLD |
| 1 5 69-714 ASSY, PREFILTER BOX 1200 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 7 | 69-1011 | ASSY, FRAME AND ENCLOSURES |
| 1 4 69-797 ASSY, ENGINE 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 6 | 69-1012 | ASSY, CONTROL PANEL |
| 1 3 69-801 ASSY, WASTE PUMP OUT 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | | 69-714 | ASSY, PREFILTER BOX 1200 |
| 1 2 69-804 ASSY, VACUUM PUMP 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 4 | 69-797 | ASSY, ENGINE |
| 1 1 69-826 ASSY, MOLDED BELT GUARD BLOWER | 1 | 3 | 69-801 | ASSY, WASTE PUMP OUT |
| | 1 | 2 | 69-804 | ASSY, VACUUM PUMP |
| OTY ITEM PART NO DESCRIPTION | 1 | 1 | 69-826 | ASSY, MOLDED BELT GUARD BLOWER |
| GIT TIEM TAKING. DESCRITION | QTY | ITEM | PART NO. | DESCRIPTION |

69-798, ASSEMBLY, RECOVERY TANK



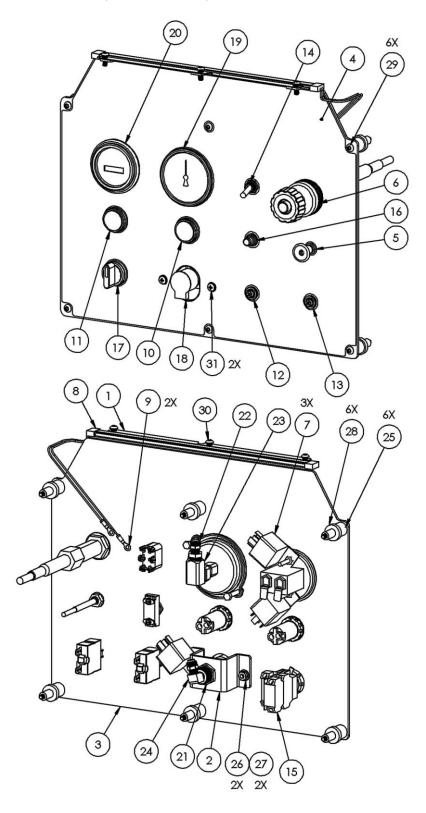
| 4 | 8 | 14-031 | RIVET, \$\$ 3/16 X 1/2 SHORT |
|-----|------|----------|------------------------------|
| 4 | 7 | 14-018 | RIVET, SS 3/16 LONG |
| 1 | 6 | 20-021 | STRAINER, FILTER 3" 100 MESH |
| 1 | 5 | 21-094 | FTTG, 1-1/2 P X 2H DRAIN |
| 2 | 4 | 40-003 | LATCH, PRE-FILTER BOX |
| 1 | 3 | 61-002 | WELDMENT, STRAINER BASKET |
| 1 | 2 | 61-1328 | WELDMENT, WASTE TANK |
| 1 | 1 | 69-806 | ASSY, WASTETANK LID |
| QTY | ITEM | PART NO. | DESCRIPTION |

69-1011, ASSEMBLY, FRAME AND ENCLOSURES



| 6 | 23 | 10-020 | SCREW, MACH 1/4-20 X 3/4 HXHD SS |
|-----|------|----------|-----------------------------------------|
| 10 | 22 | 10-028 | SCREW, MACH 1/4-20 X 2-3/4 HXHD |
| 1 | 21 | 10-205 | SCREW, SELF DRILL 1/4-14 X 1-1/4 HXHD |
| 5 | 20 | 10-421 | SCREW, MACH 10-32 X 1/2 BHSCS ZP |
| 10 | 19 | 11-004 | NUT, 1/4-20 ZINC |
| 6 | 18 | 12-002 | WASHER, FLAT 1/4 SS ANC |
| 6 | 17 | 12-003 | LKWSR, 1/4 IN SS |
| 4 | 16 | 12-011 | WASHER, FLAT #12 SAE |
| 16 | 15 | 12-012 | WASHER, FLAT 1/4 USS |
| 10 | 14 | 12-015 | LKWSR, 1/4 ZINC |
| 3 | 13 | 14-003 | CLAMP, WIRE CUSHION 1.00 ID X 1/4 BOLT |
| 4 | 12 | 14-085 | RIVET, 5/32 X .312 HD .251375 GRIP SS |
| 12 | 11 | 14-086 | RIVET, 5/32 X .312 HD .062125 GRIP SS |
| 4 | 10 | 40-034 | LATCH, DRAW SS CONCEALED MOUNT |
| 2 | 9 | 41-070 | GROMMET, 7/8" OD X 3/8" ID X 1/8" PANEL |
| 1 | 8 | 41-096 | GROMMET, 1-1/8 OD X 5/8 ID X 1/8 PANEL |
| 1 | 7 | 58-1052 | PLT, BEZEL NAMEPLATE HVE-LL |
| 1 | 6 | 58-929 | PNL, LEFT SIDE |
| 1 | 5 | 58-930 | PNL, TOP |
| 1 | 4 | 58-931 | PNL, RIGHT SIDE |
| 1 | 3 | 61-1422 | WELDMENT, REAR BRACE |
| 1 | 2 | 61-1424 | WELDMENT, BEZEL SUPPORT |
| 1 | 1 | 61-1635 | WMT, FRAME |
| QTY | ITEM | PART NO. | DESCRIPTION |

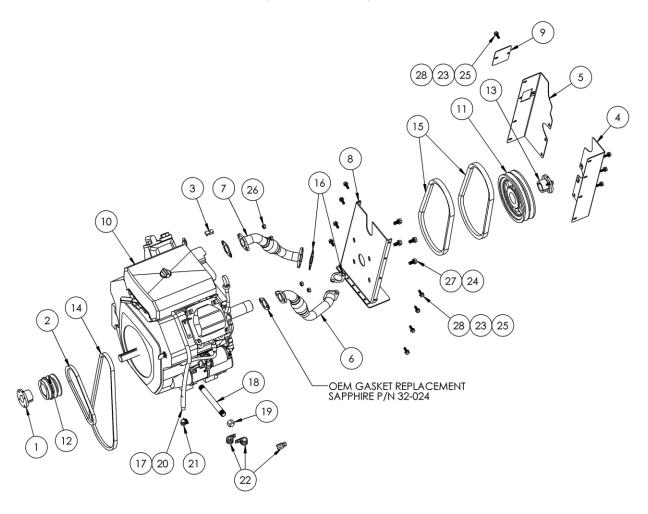
69-1012, ASSEMBLY, INSTRUMENT PANEL



69-1012, ASSEMBLY, INSTRUMENT PANEL - BOM TABLE

| 2 | 31 | 10-1 <i>5</i> 0 | SCREW, 10-32 X .50 PHP ZP |
|-----|------------|-----------------|-----------------------------------------------|
| 3 | 30 | 10-421 | SCREW, MACH 10-32 X 1/2 BHSCS ZP |
| 6 | 29 | 10P-383 | SCREW, MACH 10-32 X 1.75 BHSCS SS |
| 6 | 28 | 11-002 | NUT, WELL G 10-32 |
| 2 | 27 | 11-096 | NUT, 10-32 KEPS ZP |
| 2 | 26 | 12-091 | WASHER, FLAT #10 SAE ZP |
| 6 | 25 | 15-082 | SPACER, .625 OD X .192 ID X .625 LG 6-6 NYLON |
| 1 | 24 | 21-011 | ELL, 1/8 NPT X 1/4 POLY BRASS |
| 1 | 23 | 21-037 | ELL, 1/4 IN. BRASS |
| 1 | 22 | 21-433 | CONN, 1/4 P X 1/4 POLY |
| 1 | 21 | 21- <i>57</i> 9 | FTTG, BULKHEAD 1/8 BRASS |
| 1 | 20 | 26-033 | HOURMETER, HOBBS CHROME BEZEL |
| 1 | 19 | 26-044 | GAUGE, VACUUM 2.5 IN 0-30 IN/HG |
| 1 | 18 | 28-000 | CUP, OILFILL, 1/8 NPT |
| 1 | 1 <i>7</i> | 29-020 | SWITCH, ROTARY 3 POS SR TO CNTR 2NO |
| 1 | 16 | 29-037 | SWITCH, PUSH BUTTON SELECTA |
| 1 | 15 | 29-051 | SWITCH, NO CONTACT BLOCK |
| 1 | 14 | 29-078 | SWITCH, TOGGLE DPDT |
| 1 | 13 | 30-007 | BREAKER, 30 AMP |
| 1 | 12 | 30-008 | BREAKER, 20 AMP |
| 1 | 11 | 30-136 | LIGHT, 22MM GREEN |
| 1 | 10 | 30-137 | LIGHT, 22MM RED |
| 2 | 9 | 31-292 | TERM, RING 18-22 GA. #8 INS |
| 1 | 8 | 33-009 | LIGHT, LED STRIP |
| 3 | 7 | 34-010 | RELAY, ENG.SHTDWN 12V 40/60AMP |
| 1 | 6 | 40-031 | CABLE, THROTTLE |
| 1 | 5 | 40-032 | CABLE, CHOKE |
| 1 | 4 | 44-343 | DECAL, INSTRUMENT PANEL |
| 1 | 3 | 58-1051 | PNL, INSTRUMENT |
| 1 | 2 | 58-885 | BRACKET, VAC LUBE |
| 1 | 1 | 61-1499 | WELDMENT, LED STRIP MOUNT |
| QTY | ITEM | PART NO. | DESCRIPTION |

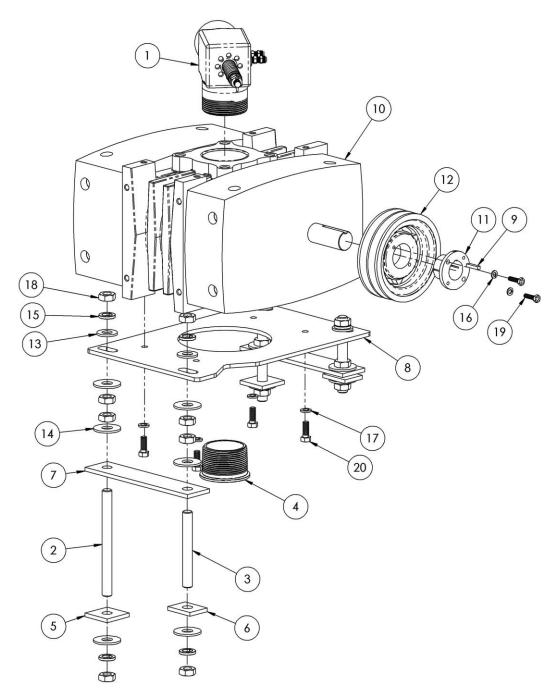
69-797, ASSEMBLY, ENGINE



69-797, ASSEMBLY, ENGINE - BOM TABLE

| 10 | 00 | 10.005 | SCDEM MACH 1/4 00 V 3/4 HVHD CDD5 |
|---------|------|----------|--------------------------------------|
| 12 | 28 | 10-025 | SCREW, MACH 1/4-20 X 3/4 HXHD GRD5 |
| 4 | 27 | 10-070 | BOLT375-16 X .75 HH ZP |
| 4 | 26 | 11-005 | NUT, 5/16-18 ZINC |
| 12 | 25 | 12-011 | WASHER, FLAT #12 SAE |
| 4 | 24 | 12-014 | LKWSR, 3/8 ZINC |
| 12 | 23 | 12-015 | LKWSR, 1/4 ZINC |
| 3 | 22 | 14-005 | CLAMP,WIRE CUSHION 5/8 ID X 1/4 BOLT |
| 1 | 21 | 14-007 | CLAMP, HOSE #4 |
| 2.33 FT | 20 | 16-104 | HOSE, FUEL 1/4 30R9 FUEL INJECTION |
| 1 | 19 | 21-326 | CAP, 3/8 NPT BRASS |
| 1 | 18 | 21-329 | NIPPLE, 3-8 NPT X 6 SS |
| 24 IN | 17 | 32-027 | LOOM, HI HEAT .500 DIA. BLACK |
| 2 | 16 | 36-016 | GASKET, EXHAUST |
| 2 | 15 | 37-060 | BELT, BX32 GATES EPDM |
| 1 | 14 | 37-064 | BELT, GATES AX38 MATCH |
| 1 | 13 | 38-126 | HUB, H X 1-1/8 W/SET SCREW |
| 1 | 12 | 38-048 | PULLEY, BROWNING 2AK34H |
| 1 | 11 | 38-050 | SHEAVE, BROWNING 2BK70H |
| 1 | 10 | 45-040 | ENGINE, KOHLER 20 HP |
| 1 | 9 | 58-397 | PLATE, BELT INSPECTION |
| 1 | 8 | 61-452 | WELDMENT, BELT GUARD, 370 SS |
| 1 | 7 | 61-468 | ASSY, EXHAUST TUBE LS 370SS |
| 1 | 6 | 61-469 | ASSY, EXHAUST TUBE RS 370SS |
| 1 | 5 | 61-834 | WELDMENT, BELT GUARD LS |
| 1 | 4 | 61-835 | WELDMENT, BELT GUARD RS |
| 1 | 3 | 66-122 | RETAINER, CABLE |
| 1 | 2 | 37-062 | BELT, 3L190 |
| 1 | 1 | 38-125 | HUB, H X 1 W/SET SCREW |
| QTY | ITEM | PART NO. | DESCRIPTION |

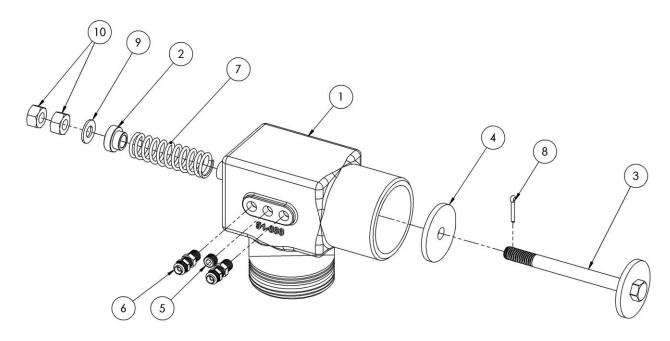
69-804, ASSEMBLY, VACUUM PUMP



69-804, ASSEMBLY, VACUUM PUMP – BOM TABLE

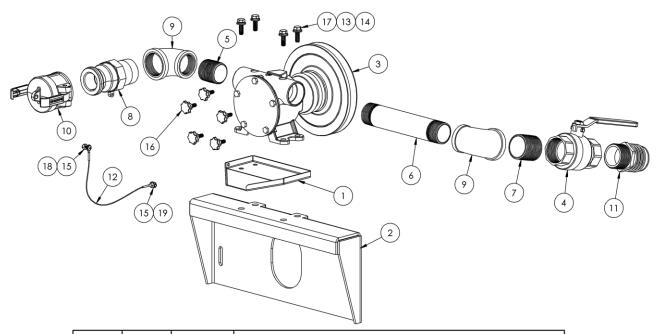
| 4 | 20 | 10-029 | SCREW, MACH 3/8-16 X 1 HXHD |
|-----|------|--------------------|------------------------------------------|
| 2 | 19 | 10-1 <i>7</i> 5 | SCREW, MACH 1/4-20 X 1 HXHD YZ8 |
| 16 | 18 | 11-062 | NUT, 5/8-18 JAM |
| 4 | 17 | 12-014 | LKWSR, 3/8 ZINC |
| 2 | 16 | 12-015 | LKWSR, 1/4 ZINC |
| 8 | 15 | 12-039 | WASHER, LOCK, .625 |
| 12 | 14 | 12-040 | WASHER, FLAT .625 USS |
| 4 | 13 | 12-110 | WASHER, FLAT 5/8 SAE |
| 1 | 12 | 38-11 <i>7</i> | PULLEY, 2BK60H |
| 1 | 11 | 38-127 | HUB, H X 1-1/4 W/SET SCREW |
| 1 | 10 | 46-055 | VACUUM PUMP, GD TI-406, PN GYCMJCA0188 |
| 1 | 9 | 55-1 <i>7</i> 1-01 | KEYSTOCK, 1/4 X 3/16 X 1.0 IN UNDERSIZED |
| 1 | 8 | 58-377 | PLT, VACUUM PUMP MOUNITNG |
| 2 | 7 | 58-378 | PLATE, BLOWER MOUNTING TOP |
| 2 | 6 | 58-379 | PLATE, BLOWER MOUNTING MIDDLE |
| 2 | 5 | 58-380 | PLATE, BLOWER MOUNTING BOTTOM |
| 1 | 4 | 66-208 | FLANGE, 370 BLOWER OUTLET |
| 2 | 3 | 66-227-02 | THREADED ROD, 5/8-18 X 5.0 IN |
| 2 | 2 | 66-227-04 | THREADED ROD, 5/8-18 X 7.0 IN |
| 1 | 1 | 69-922 | ASSY, VACUUM RELIEF |
| QTY | ITEM | PART NO. | DESCRIPTION |

69-922, ASSEMBLY, VACUUM RELIEF



| 2 | 10 | 11-012 | NUT, 7/16-14 ZP |
|-----|------|----------|--------------------------------|
| 1 | 9 | 12-013 | WASHER, FLAT 3/8 USS |
| 1 | 8 | 14-032 | PIN, COTTER 7/64 X 3/4 SS |
| 1 | 7 | 15-002 | SPRING, VAC RELIEF VALVE |
| 2 | 6 | 21-028 | CONN, 1/8 P X 1/4 POLY |
| 1 | 5 | 21-029 | PLUG, 1/8 NPT SOCKET HD BRASS |
| 1 | 4 | 41-010 | DIAPHRAGM, VAC RELIEF 3L&4M |
| 1 | 3 | 61-1142 | WELDMENT, VACUUM STEM |
| 1 | 2 | 66-501 | BUSHING, SMALL SPRING RETAINER |
| 1 | 1 | 66-000 | VAC BRAKE, MACHINED 4M |
| QTY | ITEM | PART NO. | DESCRIPTION |

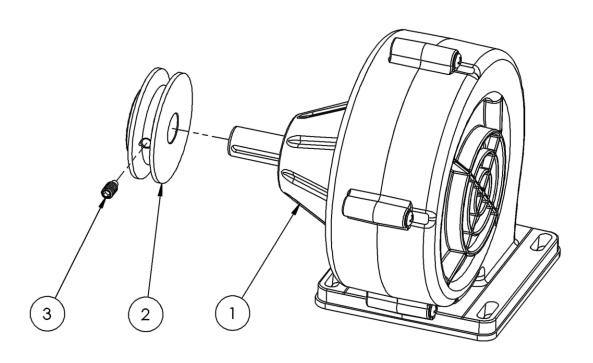
69-801, ASSEMBLY, WASTE PUMP OUT



| 1 | 19 | 10-033 | SCREW, MACH 10-32 X 3/8 PNHD PHILLIP |
|-----|------------|----------|-------------------------------------------------|
| 1 | 18 | 10-062 | SCREW, MACH 10-32 X 5/8 PPHZ |
| 4 | 1 <i>7</i> | 10-106 | BOLT, 5/16-18 X 1 HHC\$ Z5 |
| 5 | 16 | 10P-368 | SCREW, THUMB 1/4-20 X 9/16 NYLON KNOB |
| 2 | 15 | 11-018 | NUT, 10-32 NYLOK |
| 4 | 14 | 12-016 | LKWSR, 5/16 ZINC |
| 4 | 13 | 12-017 | WASHER, FLAT 5/16 SAE ZINC |
| 1 | 12 | 15-080 | LANYARD, 10 IN WIRE ROPE |
| 1 | 11 | 21-094 | FTTG, 1-1/2 P X 2H DRAIN |
| 1 | 10 | 21-308 | COUPLING,AL CAP 1 1/2 X 2 1/8X |
| 2 | 9 | 21-339 | ELBOW, FEMALE 1.50 NPT REDUCE TO 1.25 NPT BRASS |
| 1 | 8 | 21-356 | ADAPTER, 1-1/2 NPT X 1-1/2 CAM & GROOVE |
| 1 | 7 | 21-392 | NIPPLE, 1-1/2 NPT CLOSE BRASS |
| 1 | 6 | 21-496 | NIPPLE, 1-1/4 NPT X 8 BRASS |
| 1 | 5 | 21-510 | NIPPLE, CLOSE 1-1/4 NPT BRASS |
| 1 | 4 | 23-050 | VAVLE, BALL 1-1/2 NPT BRASS |
| 1 | 3 | 46-054 | PUMP, JABSCO |
| 1 | 2 | 61-1332 | WELDMENT, PUMP MTG BRACKET |
| 1 | 1 | 61-1351 | WELDMENT, PUMP DRAIN |
| QTY | ITEM | PART NO. | DESCRIPTION |

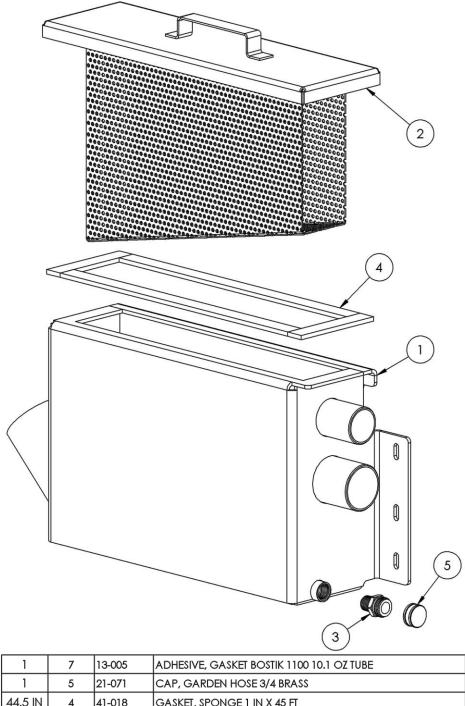
IMPELLER SERVICE KIT: 36-421 (NOT SHOWN)

69-826, ASSEMBLY, BELT GUARD BLOWER



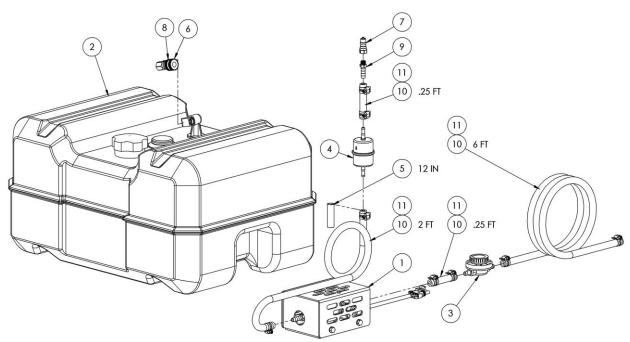
| 1 | 3 | 10-219 | SCREW, FULL DOG SET 1/4-20 X 1/2 BLK |
|-----|------|----------|--------------------------------------|
| 1 | 2 | 66-215 | PULLEY, 3L BELT X 2.340 OD |
| 1 | 1 | 68-414 | SUBASSY, BELT GUARD BLOWER |
| QTY | ITEM | PART NO. | DESCRIPTION |

69-714, ASSEMBLY, PREFILTER BOX



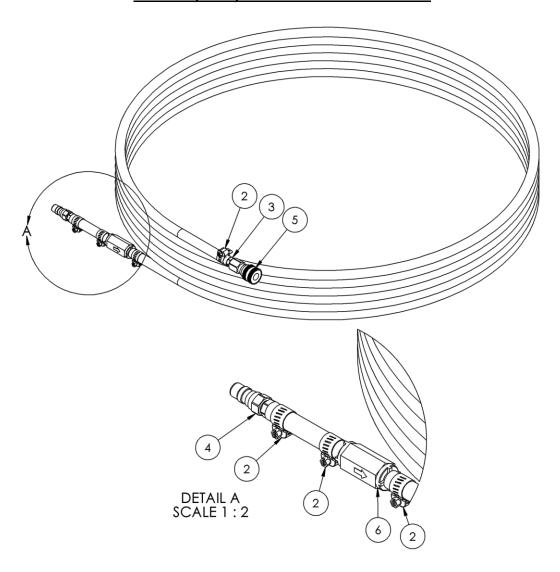
| 1 | 7 | 13-005 | ADHESIVE, GASKET BOSTIK 1100 10.1 OZ TUBE |
|---------|------|----------|-------------------------------------------|
| 1 | 5 | 21-071 | CAP, GARDEN HOSE 3/4 BRASS |
| 44.5 IN | 4 | 41-018 | GASKET, SPONGE 1 IN X 45 FT |
| 1 | 3 | 21-398 | FTTG, GRDN HOSE 1/2 P X 3/4 H |
| 1 | 2 | 61-1215 | WELDMENT, FILTER BOX LID |
| 1 | 1 | 61-1214 | WELDMENT, PREFILTER BOX |
| QTY | ITEM | PART NO. | DESCRIPTION |

68-812, FUEL TANK KIT

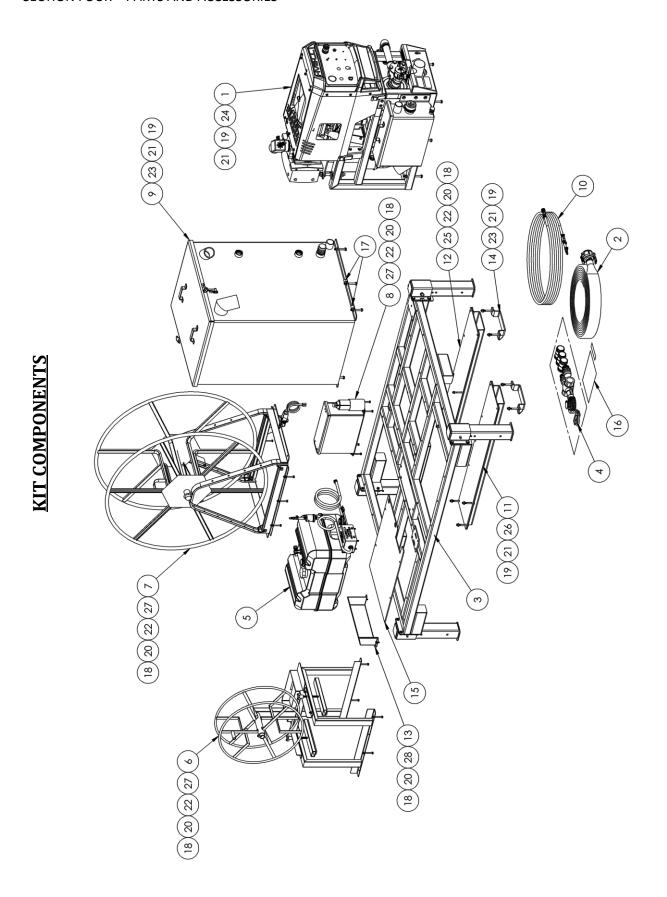


| 1 | 12 | 21-039 | FITTING - ELBOW 1/4 IN STREET BRASS |
|--------|------|----------|-------------------------------------|
| 8 | 11 | 14-007 | CLAMP, HOSE #4 |
| 8.5 FT | 10 | 16-103 | HOSE, FUEL 5/16 30R9 FUEL INJECTION |
| 1 | 9 | 21-007 | FTTG, BRB 1/8 P X 5/16 H BR |
| 1 | 8 | 21-056 | NIP, HEX 1/4 X 1/8 BRASS |
| 1 | 7 | 25-009 | DSC, 1/8MX 1/8FP BR |
| 1 | 6 | 25-010 | DSC, 1/8F X 1/8FP BR |
| 12 IN | 5 | 32-027 | LOOM, HI HEAT .500 DIA. BLACK |
| 1 | 4 | 36-097 | FILTER, FUEL KUBOTA |
| 1 | 3 | 36-549 | REGULATOR, FUEL PRESSURE |
| 1 | 2 | 50-028 | TANK, FUEL 12 GAL LOW PROF W/GAUGE |
| 1 | 1 | 68-030 | ASSY,FUEL PUMP HOUSING |
| QTY | ITEM | PART NO. | DESCRIPTION |

68-408, KIT, EXTENDED FUEL LINE



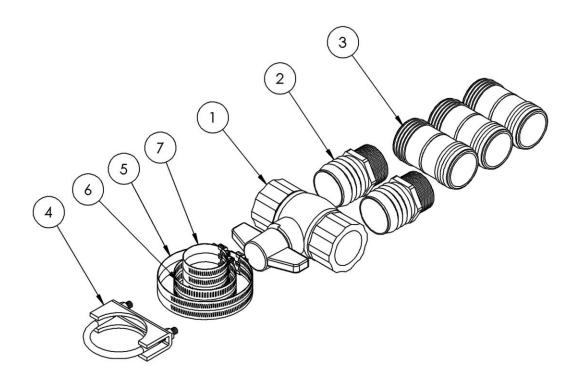
| 1 | 6 | 23-087 | CHECK VALVE, FUEL |
|-----|------|----------|-------------------------------------|
| 1 | 5 | 25-010 | DSC, 1/8F X 1/8FP BR |
| 1 | 4 | 25-009 | DSC, 1/8MX 1/8FP BR |
| 2 | 3 | 21-007 | FTTG, BRB 1/8 P X 5/16 H BR |
| 4 | 2 | 14-007 | CLAMP, HOSE #4 |
| 1 | 1 | 16-103 | HOSE, FUEL 5/16 30R9 FUEL INJECTION |
| QTY | ITEM | PART NO. | DESCRIPTION |



KIT COMPONENTS - BOM TABLE

| 1 | 29 | 69-000 | FLOAT SWITCH |
|----------------------------------|------------|-----------------|-------------------------------------|
| 6 | 28 | 10-025 | SCREW, MACH 1/4-20 X 3/4 HXHD GRD5 |
| 11 | 27 | 10-028 | SCREW, MACH 1/4-20 X 2-3/4 HXHD |
| 10 | 26 | 10-030 | SCREW, MACH 3/8-16 X 3 HXHD |
| 4 | 25 | 10-105 | SCREW, MACH, .25-20 X 3.00 HXHD Z5 |
| 6 | 24 | 10-1 <i>7</i> 3 | BOLT, 3/8-16 X 5 HC\$ GR 5 ZP |
| 5 | 23 | 10-422 | SCREW, MACH, 3/8-16 X 3-1/4 HXHD ZP |
| 15 | 22 | 11-004 | NUT, 1/4-20 ZINC |
| 21 | 21 | 11-019 | NUT,3/8-16 NYLOK |
| 36 | 20 | 12-011 | WASHER, FLAT #12 SAE |
| 42 | 19 | 12-013 | WASHER, FLAT 3/8 USS |
| 21 | 18 | 12-015 | LKWSR, 1/4 ZINC |
| 2 | 1 <i>7</i> | 14-023 | CLAMP, 3/4 ID VINYL COVERED |
| 1 | 16 | 48-155 | KIT, PROP 65 |
| 1 | 15 | 58-916 | PLATE, GAS TANK SUPPORT |
| 2 | 14 | 58-981 | STRAP, FORK POCKET STIFFENER |
| 1 | 13 | 61-1360 | WELDMENT, WAND HEAD BRKT |
| 1 | 12 | 61-1512 | WELDMENT, FORK PKT RS |
| 1 | 11 | 61-1513 | WELDMENT, FORK PKT LS |
| 1 | 10 | 68-408 | KIT, EXTENDED FUEL LINE |
| 1 | 9 | 69-798 | ASSY, WASTE TANK |
| 1 | 8 | 69-809 | ASSY, STORAGE BOX |
| 1 | 7 | 69-810 | ASSY, VACUUM HOSE REEL |
| 1 | 6 | 69-811 | ASSY, WATER HOSE REEL |
| 1 | 5 | 69-812 | ASSY, FUEL TANK |
| 1 | 4 | 69-813 | KIT, INSTALL SAPPHIRE 300 HVE |
| 1 | 3 | 69-823 | ASSY, PALLET WELDMENT W/LEGS |
| 1 | 2 | 69-904 | ASSY, DISCHARGE HOSE |
| 1 | 1 | 70-300HVE | CONSOLE, SAPPHIRE 300 HVE |
| QTY | ITEM | PART NO. | DESCRIPTION |
| 1 | EA | 49-166 | MANUAL, HVE LL |
| 1 | EA | 47-01 <i>7</i> | HARNESS, FUEL PUMP CHAMP/CHOP |
| QTY | U/M | PART NO. | DESCRIPTION |
| ITEMS NOT SHOWN IN DRAWING VIEWS | | | |

69-813, KIT, INSTALL



| 4 | 7 | 14-010 | CLAMP, HOSE #32 |
|-----|------|----------|-----------------------------------|
| 2 | 6 | 14-024 | CLAMP, HOSE #48 SS |
| 2 | 5 | 14-050 | CLAMP, HOSE 4 1/2 TO 2 1/2 HD SS |
| 1 | 4 | 14-114 | CLAMP, EXHAUST 5/16-18 X 2-5/8 ID |
| 3 | 3 | 21-003 | FTTG, BRB 2 IN H BS PVC |
| 2 | 2 | 21-094 | FTTG, 1-1/2 P X 2H DRAIN |
| 1 | 1 | 23-022 | VLV, BALL 1-1/2 FP PVC DUMP |
| QTY | ITEM | PART NO. | DESCRIPTION |

DECALS

A WARNING





ELECTRICAL SHOCK COULD CAUSE SEVERE BURNS OR INJURY. DO NOT TOUCH ELECTRICAL WIRES OR COMPONENTS
WHILE THE ENGINE IS
RUNNING. DISCONNECT
THE BATTERY BEFORE SERVICING THIS UNIT TO PREVENT ACCIDENTAL STARTING. 44-066 A

44-066, WARNING, ELECTRICAL SHOCK

FROM: Sapphire Scientific 2604 Liberator Prescott, AZ 86301

44-067, WARNING, READ MANUAL

READ THE OPERATOR'S MANUAL BEFORE INSTALLING OR STARTING THIS UNIT. FAILURE TO ADHERE TO INSTRUCTIONS CAN RESULT IN SEVERE PERSONAL INJURY OR COULD BE FATAL. REPLACEMENT MANUALS CAN BE PURCHASED FROM:

44-067 A

ROTATING MACHINERY. WATER UNDER PRESSURE AT HIGH TEMPERATURE. IMPROPER
MODIFICATION OF
EQUIPMENT CAN
CAUSE SEVERE PERSONAL INJURY OR COULD BE FATAL.

DANGER

DO NOT MODIFY UNIT WITHOUT WRITTEN PERMISSION **MANUFACTURER**

44-082 A

44-082, DANGER, ROTATING MACHINERY

A WARNING



ROTATING MACHINERY CAN CAUSE INJURY OR COULD BE FATAL KEEP ALL GUARDS AND SAFETY DEVICES IN PLACE. 44-085 A

44-085, WARNING, ROTATING **MACHINERY**



44-084, CAUTION, HOT SURFACE

DECAL, PRODUCT HVE-LL



ELECTRICAL DIAGRAM

