



OWNERS MANUAL

GV240-IDI



65 YEARS OF AMERICAN INGENUITY

KRENDL MACHINE COMPANY • 1201 SPENCERVILLE RD
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CONGRATULATIONS ON YOUR PURCHASE OF KRENDL EQUIPMENT

**MODEL GV240-IDI
OWNER'S MANUAL**

FOR ASSURED SAFETY AND CONFIDENCE, PLEASE READ THIS
MANUAL CAREFULLY BEFORE INSTALLING AND OPERATING
YOUR MACHINE.

**E-MAIL ADDRESS IS: krendl@krendlmachine.com
WEB SITE IS: www.krendlmachine.com**

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Thank you for purchasing **KRENDL INSULATION MOVING EQUIPMENT**. With over sixty five years experience in manufacturing insulation moving equipment, we have designed and built your equipment with the highest quality to provide years of reliable service.

This manual has been prepared to help you obtain the maximum efficiency and service from your Krendl equipment. The machine is designed to move insulation with the utmost in dependable performance. Our primary objective is to build equipment which will provide complete satisfaction.

Since Krendl Machine Company does not manufacture or sell insulation, our interest lies only in the proper performance of the equipment we manufacture. We make no recommendations or guarantees concerning various insulations.

CAUTION:



This manual contains important information regarding the **safe** assembly and operation of your machine. We urge you to read it carefully and follow the instructions provided. If your questions are not answered in this manual, please contact us. We want you to be able to operate this unit safely and confidently.

FILL IN AND RETAIN:

Krendl Machine Company
1201 Spencerville Rd
Delphos, Ohio 45833 U.S.A.

Telephone: 800-459-2069
Fax: 419-695-9301
E-mail: krendl@krendlmachine.com
Web Site: www.krendlmachine.com

For your protection in the event of theft or loss, please fill in the information requested for your own records. This information will be needed for warranty repairs. You may also want to attach a copy of your invoice.

Machine model number_____

Serial number_____

Date of purchase_____

Supplier / Distributor_____

General Safety Information



Important: Read **all** instructions **before** operating this equipment. This equipment can be potentially dangerous and must be used in strict accordance with instructions.



Disclaimer Notice: The manufacturer will not be legally responsible for any injury or damage resulting from the improper use of this equipment or the failure to follow instructions.



General Safety

- Read this manual carefully and become familiar with your equipment. Know its applications, limitations, and any operational hazards.
- This equipment was designed and manufactured for specific applications. Do not attempt to modify the unit or utilize it for any application in which it was not intended. If you have any questions about your intended use or the machines suitability, ask your supplier/distributor or consult the factory. Krendl Machine Company can not anticipate every circumstance that might involve a hazard. For that reason, warnings in the manual and warning tags and decals affixed to the unit, are **not** all-inclusive. Do not handle, operate, or service the unit by a procedure or method not specifically recommended by the manufacturer.



Electrical Safety

- The **National Electric Code** (NEC) in the United States and many international electrical codes require frame and external electrically conductive parts of this machine to be properly connected to an approved earth ground. Local electrical codes may also require proper grounding of machine. Consult with local electricians for grounding requirements in your area.
- Take care and follow these instructions when removing or installing the battery or electrical burn could occur. When removing battery, disconnect negative cable first followed by positive cable. When installing battery, connect positive cable first followed by negative cable.
- Reference NFPA 79, 70E, or OSHA safe work practices when performing energized work procedures.



Safety/Caution

- **Be Safe** - **ALWAYS** remove key from ignition and shut off gas before performing any maintenance on vacuum.
- **Be Safe** - Keep hands, loose clothing, jewelry and hair away from moving parts.
- **Be Safe** - Make sure all guards are in proper place **before** operating vacuum. Guards and safety devices/switches should not be removed, modified or by-passed.
- **Be Safe** - Never operate vacuum when access door on fan chamber cover is open.
- **Be Safe** - Do not remove fan chamber cover when key is in the **on** position.
- **Be Safe** - Keep work area clear of debris. Do not use vacuum to move stones, nails, or any other foreign debris.
- **Be Safe** - Consult a qualified technician to answer questions **before** attempting to service unit, as injury may result.
- **Be Safe** - Wear proper safety equipment, including protective gear, such as respirators, eye and ear protection.
- **Be Safe** - Use proper and secure clamping method for all insulation hoses to prevent uncontrolled insulation stream bursts around operator.
- **Be Safe** - Do not operate machine alone.
- **Be Safe** - Do not leave machine unattended and energized.
- **Be Safe** - Turn machine off and disconnect battery before clearing and feeding jam or attempting to remove any object in the fan chamber.
- **Be Safe** - Use proper lifting when moving insulation and loading machine.
- **Be Safe** - Violation of the Owner's Manual or safety precautions may void warranty.



Make Sure!

- Vacuum is sitting on level surface.
- Both inlet and outlet hoses are attached and pushed on all the way to actuate safety switches, then secured with hose clamps before operating.
- Fan chamber is empty of foreign debris **before** starting as this can bind and stall your machine or damage the fan.
- Fan chamber cover is in place and properly secured before turning vacuum on.
- Vacuum is turned off **immediately** if hose is plugged.
- Vacuum is turned off **immediately** if there is excessive vibration as the fan may be out of balance.
- Vacuum is placed in an open area so that it receives "fresh air" and allows hot air from the engine to exhaust.
- Vacuum is used in a ventilated area. Do not operate vacuum inside an enclosed truck, trailer or building structure.

Decals



Rotating fan can be dangerous!
Properly attach hoses before operation. Failure to do this could cause serious injury or death.



Rotating parts can be dangerous!
You can snag clothes, hair, hands, etc. This can cause serious injury or death.



Indicates which employee inspected the equipment and on what date.



Rotating parts move in this direction.



Manufacturer information is provided here along with machine serial number.



During operation, this machine is loud.
Wear hearing protection. Failure to do this could result in hearing loss.



During operation if engine is off, key should be in off position to preserve battery.



Indicates that the Krendl Machine Company is in compliance with EPA codes.



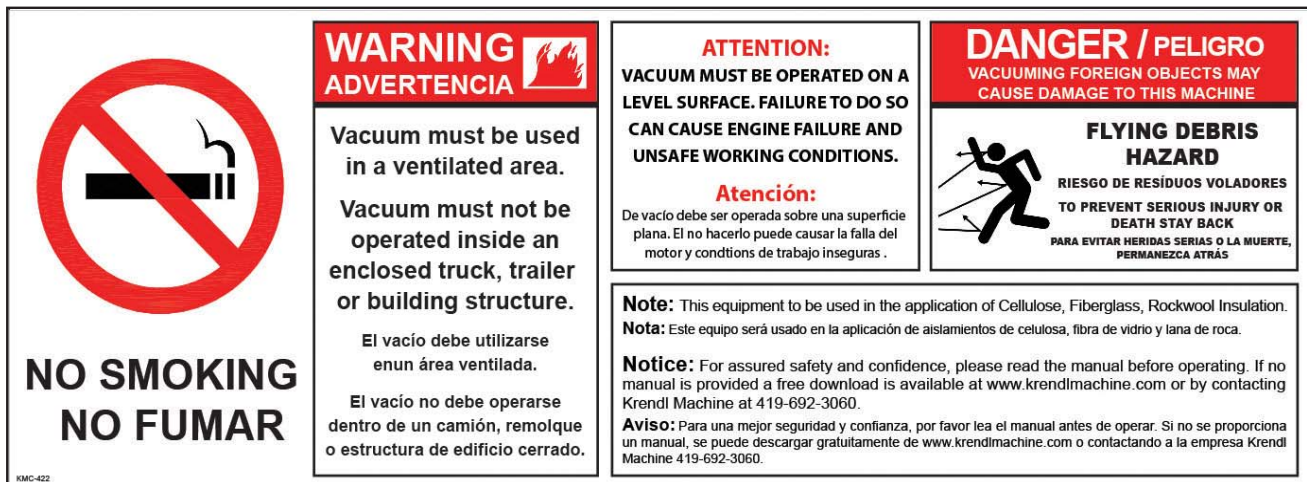
Indicates that the engine requires fresh air. Supplying the engine with fresh air will result in better performance and longer life.



Hoses must be against the lever to depress safety switch for machine to run.



During operation, this area of machine is hot! Be careful not to touch. This can cause serious burns.



Do not smoke around machine. Machine contains a flammable liquid. Failure to do this could cause serious injury or death.

Indicates machine must be used in a ventilated area and not in an enclosed truck trailer or structure.

During operation machine must be on a level surface or engine failure may occur.

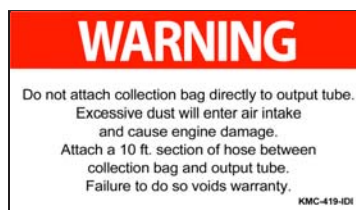
Identifies what type of insulation should be used with this machine and that the manual should be read before operating.

Warns to be careful around electrical components! This can cause serious injury or death.

During operation machine can eject flying debris. Wear appropriate safety equipment.



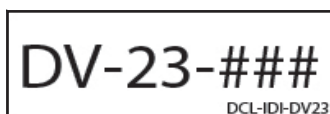
Indicates this machine is made exclusively for IDI.



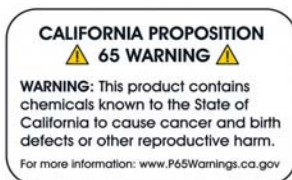
Collection bag must be attached properly to reduce dust or engine failure may occur.



Vacuum must be placed in an open area. Failure to do this could cause serious injury or death.



Part number for identification and tracking.



Vacuum fan is not covered by warranty.

Do not breathe engine exhaust. This could cause serious injury or death.

Empty contents of defender each time reclaim bag is replaced.

Returned Goods Procedure

IF MACHINE WAS NOT PURCHASED DIRECTLY FROM KRENDL MACHINE COMPANY, CONTACT YOUR SUPPLIER / DISTRIBUTOR.

When returning products to Krendl for repair, first obtain a return goods authorization, at which time you will be given shipping instructions. The product must be shipped **PREPAID**:

Krendl Machine Company

1201 Spencerville Rd

Delphos, Ohio 45833 U.S.A.

Telephone: 800-459-2069

Fax: 419-695-9301

E-mail: krendl@krendlmachine.com

Web Site: www.krendlmachine.com

Once the unit is received, it will be inspected. In-warranty units will be repaired and returned immediately. An estimate of repair charges will be provided for out-of-warranty units.

Service

See an Authorized Briggs & Stratton Service Dealer. Each one carries a stock of Genuine Briggs & Stratton Parts and is equipped with special service tools. Trained mechanics assure expert repair service on all Briggs & Stratton engines. Only dealers advertising as “Authorized Briggs & Stratton” are required to meet Briggs & Stratton standards.

You may locate your nearest Authorized Briggs & Stratton Service Dealer on the web at www.briggsandstratton.com or your local phone directory under “Engines, Gasoline” or “Gasoline Engines,” or “Lawn Mowers” or similar category.

Specifications

MODELS:	GV240-IDI
HEIGHT:	38" (97 cm)
WIDTH (DEPTH):	40" (102 cm)
LENGTH:	44" (112 cm)
WEIGHT:	382 pounds (173 kg)

BEFORE YOU RUN THIS MACHINE...PLEASE READ THE REST OF THIS MANUAL!!

WARRANTY

Krendl Machine Company (Company) warrants to each original purchaser (Buyer) of its machines that such products will be free of manufacturing defects for a period of 2 years from the date of shipment to the Buyer. (This does not include accessories, pumps, blowers, wall scrubbers, etc.)

No warranty is made with respect to:

1. Components or accessories manufactured and warranted by others. Warranties for purchased component parts as supplied from vendor such as engine, electric motor, blower, gearbox, transmission, etc., if furnished by the manufacturer of the component, are on file at the Company's main office and copies will be furnished at request of Buyer. Component(s), shipping costs prepaid, shall be sent to Company who in turn shall forward to vendor for evaluation and warranty determination.
2. Any defect caused by repair, alteration and/or adjustment performed by Buyer or customer/vendor of Buyer without the express written authorization of the Company.
3. The labor costs of replacing parts by parties other than the Company.
4. Any machine that has not been operated and / or maintained in accordance with normal industry practice and the written recommendations of the Company. (e.g. machine operated with an improperly sized, worn or damaged hose, improper or inattention to preventative maintenance, etc.)
5. The product has been subjected to misuse, negligence or accident or results of any application or use of the blowing equipment not in accordance with the Company recommendations.

This limited warranty does not cover the free replacement of component parts that become inoperative due to wear and usage and need to be replaced on a regular basis, including but not limited to: airlock seal(s), agitator(s), shredder(s), auger(s), fuse(s), switch(es), clutch(es), hose(s), shaft seal(s), chain(s), belt(s), sprocket(s), pulley(s), bearing(s), cable(s), battery(ies), filter(s), fan(s), etc.

The Company's obligation under this warranty is limited to repairing or replacing (at Company option) any part that is determined by the Company to be suffering from a manufacturing defect. The Company (at Company option) will provide any required parts and labor to the Buyer. If the equipment or parts must be returned to the Company for repair, all transportation costs shall be the Buyer's responsibility.

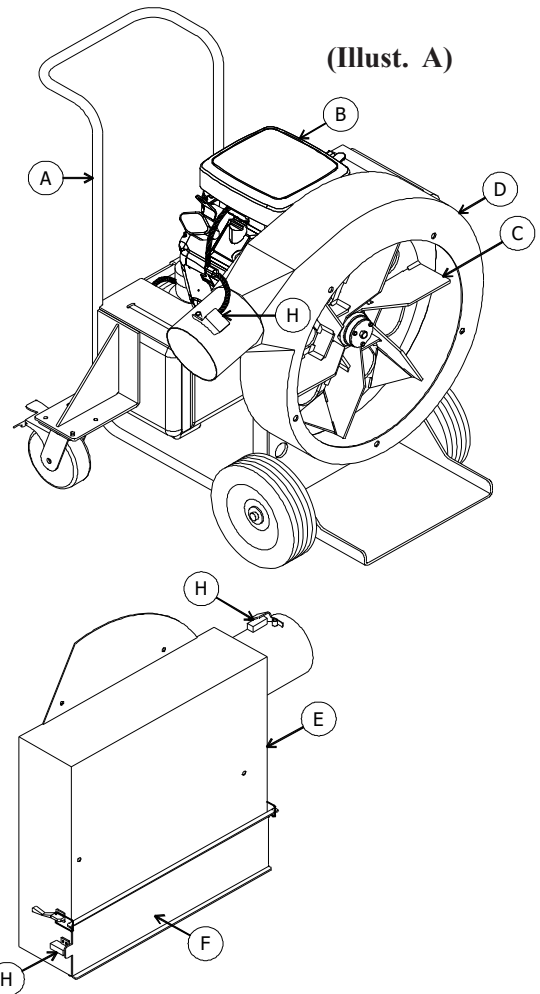
THIS LIMITED WARRANTY IS EXPRESSLY IN LIEU OF ANY OTHER GUARANTEES AND / OR WARRANTIES, ORAL OR WRITTEN, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTY OF MERCHANTABILITY. NO WARRANTY, EXPRESS OR IMPLIED, OTHER THAN THE AFORESAID WARRANTY IS MADE OR AUTHORIZED BY COMPANY. COMPANY SHALL NOT BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES TO PROPERTY OR INJURY TO ANY PERSON OR COSTS ASSOCIATED WITH LOSS OF PRODUCTION RESULTING IN LOSS OF REVENUE, PROFITS OR LOSS OF EQUIPMENT THROUGH THE USE OF THIS EQUIPMENT.

Note: Special job circumstances incurring costs for specialized repair and next day delivery of parts will not be reimbursed by the manufacturer unless authorized by factory.

Basic Components

This is a view of the basic components of your vacuum. It shows the location of each item and gives the function of each. Use this as a guide throughout the manual. (See Illust. A)

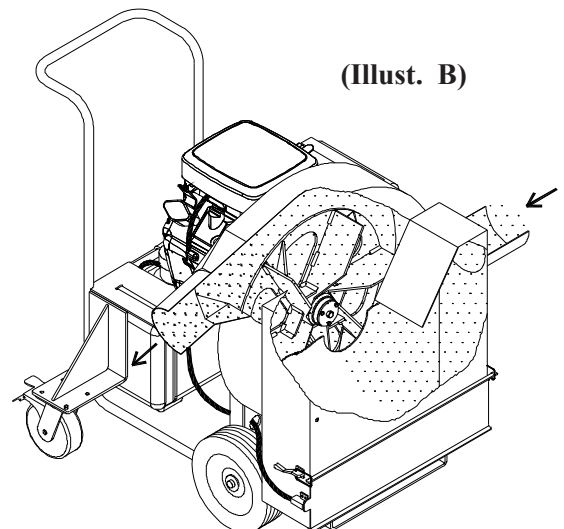
- A) STAND**—Mobile frame unit that supports the motor, battery, and fan chamber.
- B) ENGINE**—23HP engine provides power to the fan.
- C) FAN**—Unit that produces air current or vacuum.
- D) FAN CHAMBER**—Protective housing that provides an enclosed air space for the fan to create a vacuum.
- E) FAN CHAMBER COVER w/DEFENDER**—Provides access to the fan for general maintenance and protects fan from foreign debris.
- F) ACCESS DOOR**—Door on fan chamber cover for debris removal.
- G) HOUR METER / TACHOMETER**—Monitors the use and speed of the engine. (Note: LUBE/CHG OIL will flash every 25 hours) (Not Shown)
- H) LIMIT SWITCHES (3)** — Safety devices located on the input and output tubes to ensure hoses are attached properly. These switches must be engaged to allow engine to start.



Theory of Operation

This unit is designed to move all recycled and old loose fill insulation materials from the job site and deliver them directly to a designated area such as a reclaim bag. (See Illust. C on page 8.)

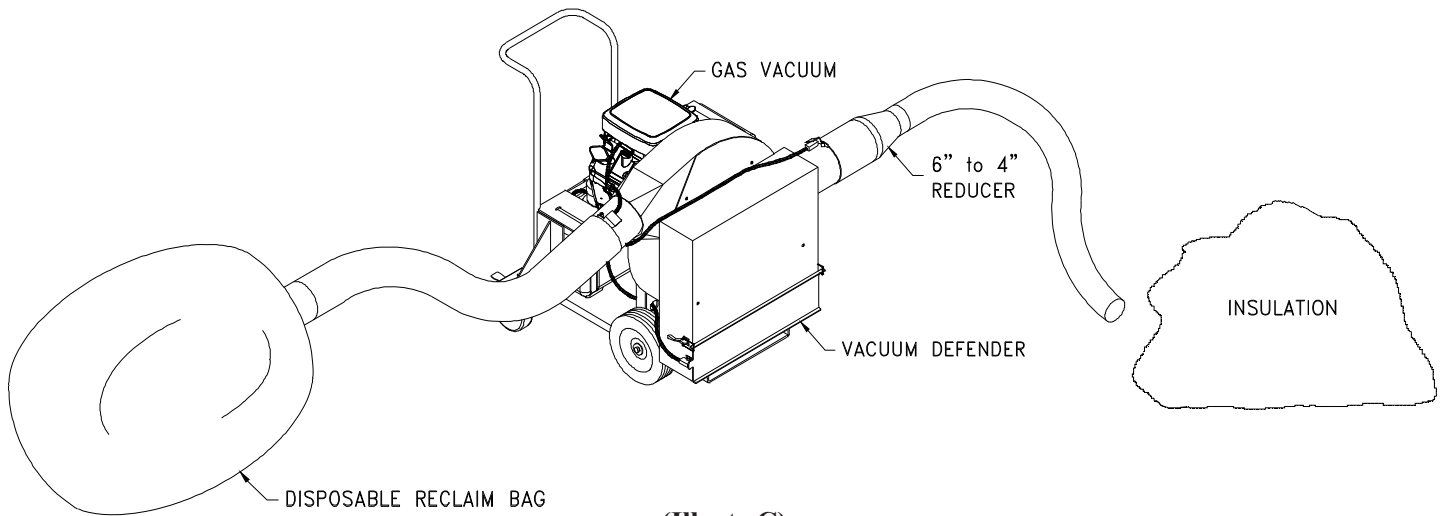
Note: Do not vacuum fiberglass batting. This can cause damage to the fan blades and engine.



Machine Hook-up

This unit provides a direct connection to 4" or 6" insulation hose depending on the use of a 6" to 4" reducer shown in (Illust. C). Slide hose on to the inlet and outlet of the gas vacuum and secure with hose clamps. **Note: Hose clamps are to be utilized with all hose connections to prevent air leakage and insure operator safety. Correct use of clamps also helps to prevent hose plugging. All hoses must be pushed on completely until safety limit switches are depressed.**

- !** 1.) **For hook-up to the Vacuum with built in defender and GV100-BAG (bag removal).** Connect 10' of hose from gas vacuum outlet to reclaim bag inlet. Connect hose to the vacuum inlet. Secure all hose connections with hose clamps. (See Illust. C)



(Illust. C)

! At all times keep your hands, clothing, foreign objects, etc. away from inlet and discharge of your gas vacuum.

! Never operate vacuum without hoses attached.

! **Note:** The end user should perform a risk assessment when first using this equipment. The end user has knowledge of conditions the equipment is used in. Therefore, the end user can ensure that necessary control measures be implemented before equipment use. (Follow all local, state, federal, and/or DSEAR requirements.)

Machine Start-up

- 1.) Place vacuum on level surface outside where the engine can receive fresh air and expel hot exhaust.
- 2.) Hook up hoses to the inlet and discharge, secure with clamps before operation.
- 3.) Move choke control to choke position.
- 4.) Move throttle control to fast position.
- 5.) Turn fuel shut-off valve on.
- 6.) Turn key to start position (repeat until engine starts).
- 7.) Move choke control to off position after start up.
- 8.) Move throttle to appropriate operating speed.



See Briggs & Stratton operation manual for additional starting and stopping instructions.

Machine Shutdown

- 1.) Allow plenty of time for insulation hose to empty.
- 2.) Move throttle control to slow position (give the fan time to slow down).
- 3.) Let engine cool down for 2 minutes before shutting off.
- 4.) Turn key to off position and remove from switch.
- 5.) Close fuel shut-off valve. **Note: If fuel shut-off valve is not closed, leakage may occur especially when transporting unit.**

Trouble Shooting

TROUBLE SHOOTING

Note: Whenever vacuum chamber cover is off, make sure key is taken out of the ignition switch.

Problem

- 1) Gas vacuum will not start.

Corrective Action

- Check engine oil level - (if low, unit will not start).
- Check engine fuel level.
- Make sure there is no foreign debris in the fan chamber impeding the motion of the fan.
- Battery is low or dead. Manually start vacuum with rewind starter. If vacuum runs, battery may need charged or replaced. If the battery is ok, electric starter may need serviced. (See Briggs & Stratton manual.)
- Make sure spark plug wires are attached.
- Make sure fuel shut off valve is open.
- Verify hoses are installed and limit switches are engaged.
- Make sure spark plugs are clean and the correct plug for the appropriate engine is used. (See Briggs & Stratton manual.)

2) Excessive vibration.

- Make sure unit is sitting on a level surface.
- Make sure fan is properly secured to motor shaft.
- Check fan for damaged fins.
- Make sure there is no excessive insulation build up on the fan and in the fan chamber.
- Fan may be out of balance and need replaced.
- Loose bolts on fan chamber cover.

3) Loud knocking.

- Make sure fan is properly secured to motor shaft.
- Make sure there is no foreign debris or fiber build up in the fan chamber.

4) Gas vacuum loses horsepower.

- Make sure there is no debris in fuel tank and fuel filter. Clean or replace .
- Make sure there is no major insulation build up on the fan and in chamber.
- Make sure air filter is clean, replace if necessary.

5) Gas vacuum engine is stalling, smoking, or running irregularly.

- Check engine fuel level - (Low fuel or no fuel).
- Make sure fuel shut off is completely open.
- Make sure gas vacuum is setting on level ground.
- Improper fuel may have been used. **Use lead free gasoline with a minimum of 87 octane. Do not use gasoline which contains Methanol. This will deteriorate the fuel line. Refer to owners manual.**
- Check for corrosion, build up, or foreign debris lodged in the float, pin, or seat. This would cause inadequate performance. (Contact Briggs & Stratton dealer)
- Make sure engine oil level is not overfilled.
- Make sure air filter is clean, replace if necessary.

Periodic preventive maintenance will add years of life to your equipment. Reviewing the information in this manual will go a long way in reducing downtime and lost income.

Krendl Machine Maintenance:

Daily

- Clear insulation away from engine and muffler to avoid fire, ensure proper ventilation and reduce the chance of insulation getting in the fuel tank.
- Do not run vacuum inside of an enclosed box truck, trailer or building. Doing this will result in engine damage, exposure to carbon monoxide or fire.

Note: Debris can be sucked into the engine through the air intake and clog the cooling fins. (See Illust. D)

See Briggs & Stratton operation manual for additional engine maintenance instructions and illustrations.

Briggs & Stratton

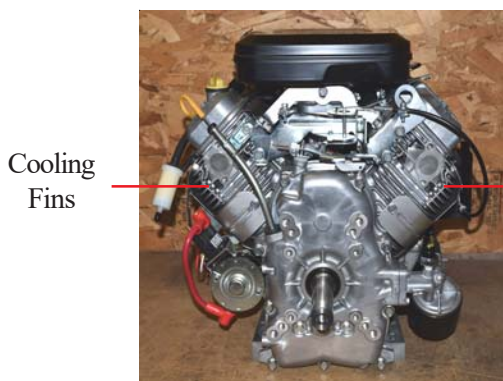


Air Intake

Illust. D

- Blow out engine cooling fins with compressed air. (See Illust. E) **Note: Failure to keep motor cooling fins clear of debris could result in catastrophic engine failure and voids warranty. (See Illust. F)**

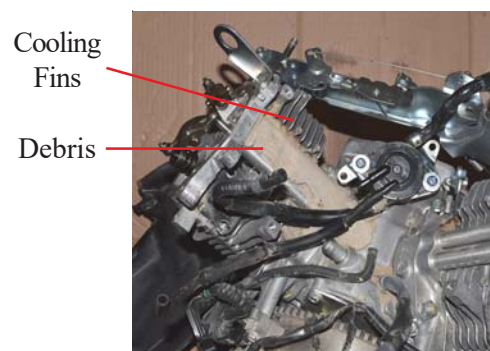
Briggs & Stratton



Cooling Fins

Cooling Fins

Illust. E



Cooling Fins

Debris

Illust. F

- Make sure vacuum is on a level surface outside where the engine can receive fresh air and expel hot exhaust.

Weekly

- Remove air filter and blow with compressed air.
- Clean out fan chamber. Remove insulation build up on fan and inside of chamber.
- Inspect fan for wear and bent blades.

Note: Do not remove fan for general maintenance.

Monthly

- Check fuel tank and filter for debris and clean if necessary.

Engine Maintenance:

DESCRIPTION	8 HOURS	75-100 HOURS	250 HOURS	400 HOURS
CHECK OIL LEVEL	X			
CLEAN AROUND MUFFLER, SPRINGS AND LINKAGES	X			
INSPECT AND BLOW OUT AROUND COOLING FINS ON CYLINDER HEADS	X			
REPLACE SPARK PLUGS		X		
SERVICE AIR FILTER AND PRE-CLEANER (Clean more often under dusty conditions, or when airborne debris or chaff is present.)		X		
SERVICE EXHAUST SYSTEM		X		
CHANGE ENGINE OIL AND FILTER (SAE SYNTHETIC MOTOR OIL 5W-30) (See engine manufacturer's manual for recommended maintenance schedule of when oil and filter should be changed)				
CHECK VALVE CLEARANCE AND ADJUST IF NECESSARY			X	
VERIFY TORQUE RATINGS ON CAPSCREWS OF TAPER LOCK BUSHING TO BE 192 INCH POUNDS (Refer to operator's manual)			X	
REPLACE AIR FILTER				X
REPLACE FUEL FILTER				X
SERVICE COOLING SYSTEM				X
CLEAN OIL COOLER FINS (Refer to operator's manual) (Clean more often under dusty conditions)				X

Note: Clean out defender box when changing bag or as needed.

Note: When further maintenance is needed, please refer back to other manufacturer's manuals for additional assistance!



SAFETY NOTE

WHEN MAINTENANCE IS TO BE PERFORMED ON THE MACHINE ALWAYS:



- 1) STOP THE ENGINE COMPLETELY.
- 2) TURN THE IGNITION TO THE "OFF" POSITION AND REMOVE THE KEY.
- 3) DISCONNECT RED (POSITIVE) BATTERY CABLE FROM BATTERY POST.

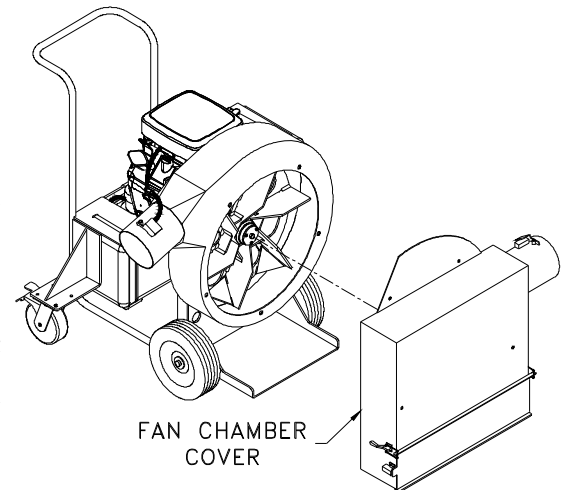
Hour / Tachometer Reset Instructions:

- 1) Toggle to the appropriate Flash Alert menu to be cleared.
- 2) Press and hold button until "00000" appears. (approx. 3 sec)

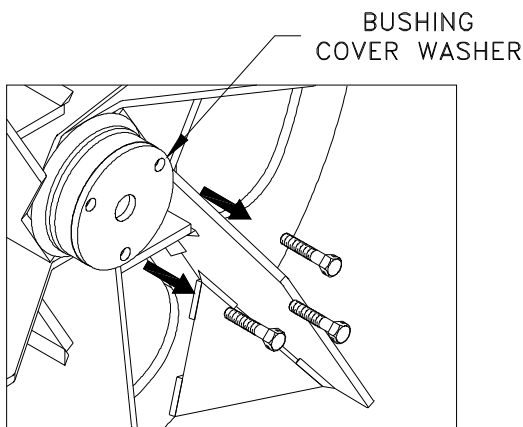
Note: Hour glass will flash repeatedly while holding button down during service reset.

Fan Removal for Replacement:

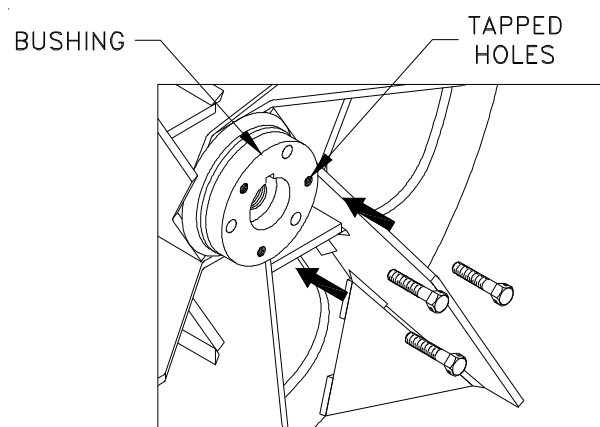
1. Remove fan chamber cover. (See Illust. G)
2. Remove the center crankshaft bolt. (See Illust. K)
3. Remove the three bolts from the bushing and remove the bushing cover washer. (See illust. H)
4. Insert the three previously removed bolts into the tapped holes in bushing. (See illust. I)
5. Tighten bolts progressively in a clockwise rotation placing equal amounts of torque until bushing disengages. **Note: Use a wrench or socket to tighten bolts. DO NOT USE AN IMPACT, FASTENER DAMAGE MAY RESULT. Note: You may need to smack fan blade near center with a hammer to help disengage bushing.**
6. Remove fan from crankshaft.



(Illust. G)



(Illust. H)



(Illust. I)

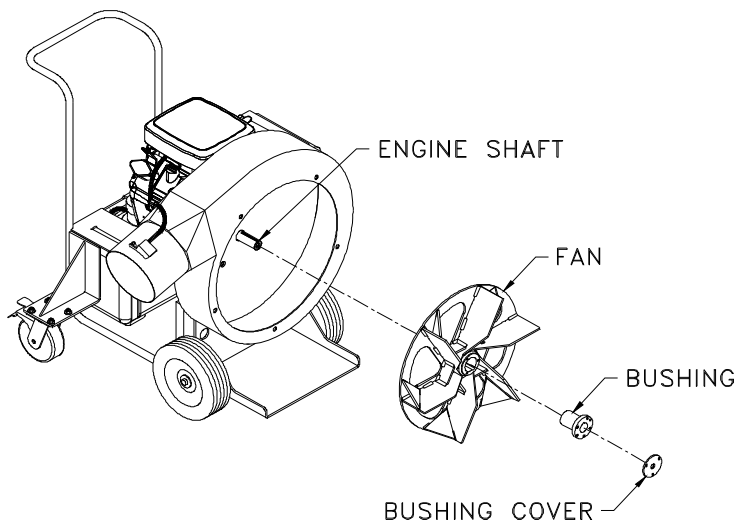
Fan Installation for Replacement:

1. Remove bushing from fan hub and clean any debris or oil from bushing and hub center.
2. Rotate crankshaft so the keyway is in the 12 o'clock position and install crankshaft key.
3. Place new fan on crankshaft without bushing installed. (See illust. J)
4. Line up keyway slots on the bushing for the fan and crankshaft. Insert bushing into fan hub.

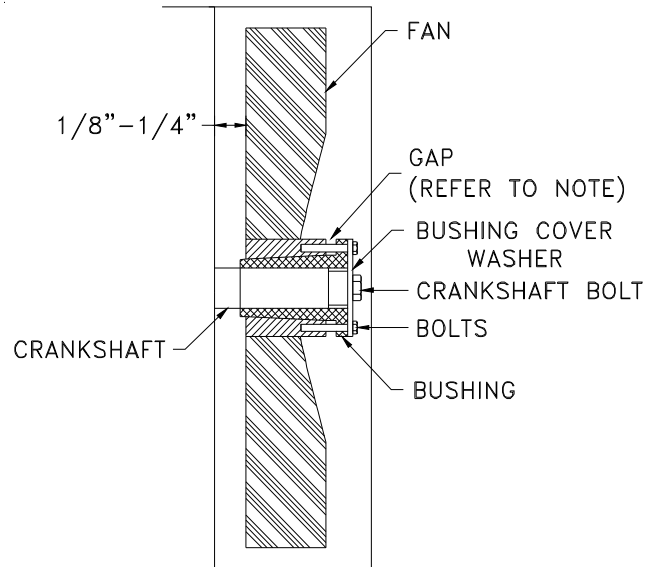
Note: Make sure fan blades are facing outward. There should be approximately an 1/8" to 1/4" gap between the fan and chamber so they don't rub. Check this in multiple locations around fan and chamber. (See Illust. K)

5. Place bushing cover washer on hub of fan and start three bolts with lock washers by hand, turning them just enough to engage the threads. **Note: Apply a thin layer of red loctite on the bolt threads before installing and do not tighten at this time.** (See Illust. K)
6. Install the center crankshaft bolt and tighten to 80-100 foot pounds. **Note: Apply a thin layer of red loctite on the bolt threads before installing.** (See Illust. K)

7. Tighten all three bolts to 20-25 foot pounds progressively in a clockwise rotation until the bushing is fully seated in the fan hub. **Note: Use a wrench or socket to tighten bolts. DO NOT USE AN IMPACT, FASTENER DAMAGE MAY RESULT.** **Note: It may take several passes around to fully tighten bolts and seat bushing.** **Note: Do not attempt to pull bushing flange flush with hub end; some gap must remain between flange and hub after tightening.**
8. Install fan chamber cover and secure with bolts. (See Illust. G) **Note: Two bolts are longer for the wiring harness retaining clamp.**



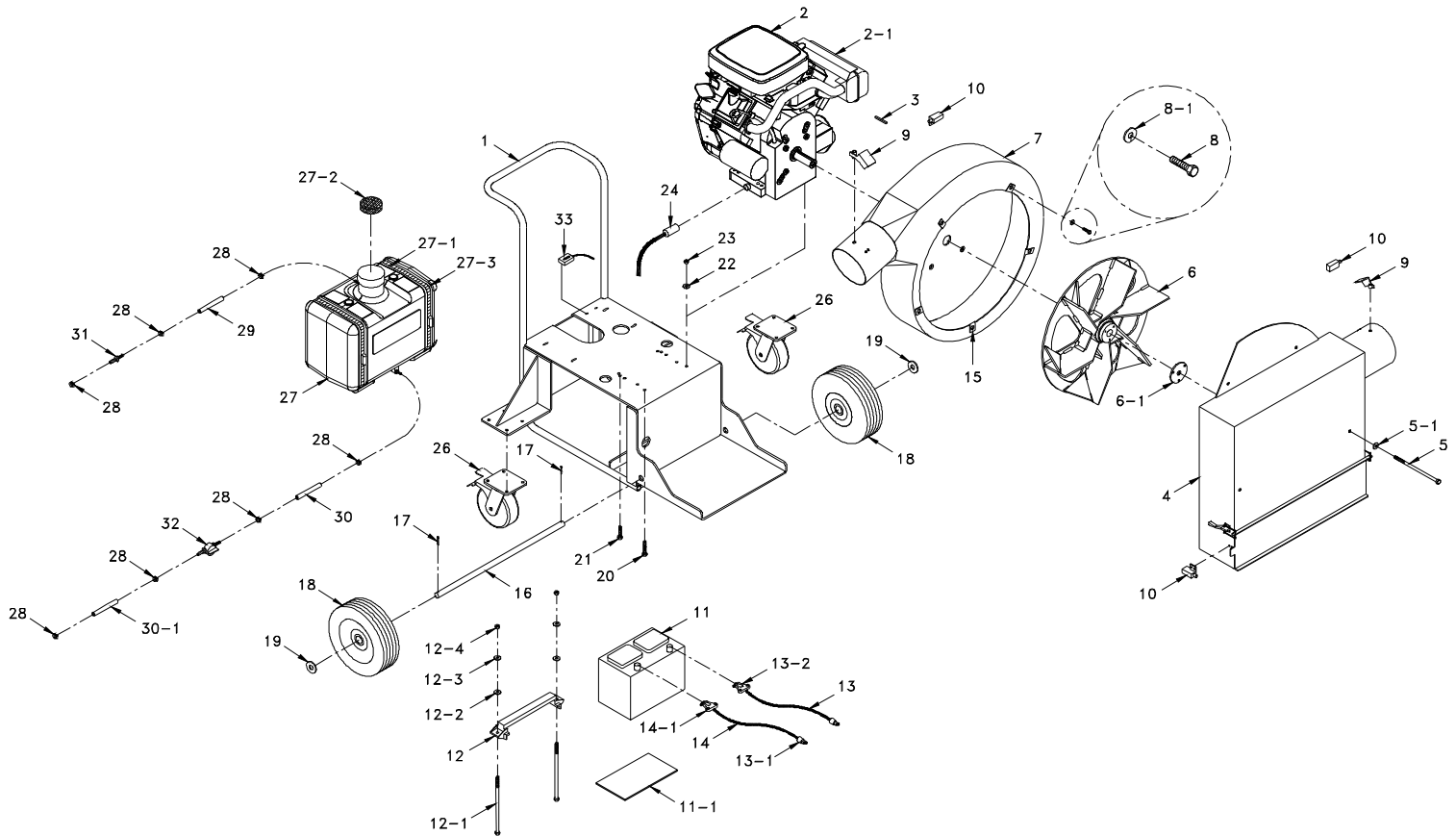
(Illust. J)



(Illust. K)

GV240-IDI Exploded Parts View

GAS VACUUM



Item#	Part#	Description
1	GV240-1	Gas Vacuum Stand
2	GV230-5	Motor, Gas Vacuum, 23HP
2-1	GV230-5-1	Muffler Kit
3	150311Z	Key, 1/4" x 1/4" x 1 3/4"
4	GV240-6-R1-IDI	Cover, Fan Chamber (w/Defender)
5	FSB318	3/8-16 x 7 1/2" Hex Head (2)
5-1	FW006	W 3/8" Lock Washer (2)
6	GV240-3-R2	20" Fan f/Gas Vacuum, Spoked
6-1	GV240-14	Bushing Cover Washer
7	GV240-2-IDI	Chamber, Fan, Gas Vacuum
8	FSB050	3/8-16 x 1" Hex Head (3)
8-1	FW006	W 3/8" Lock Washer (3)
9	GV180-13-R1	Actuator Lever, Safety (2)
10	LS200	Switch, Limit (3)
11	GV230-28	Battery
11-1	GV230-17-R1	Battery Pad
12	GV230-BHD	Bracket, Hold Down, Battery

Item#	Part#	Description
12-1	FSB230	Hold Down Bolt, SB 1/4-20 x 9" (2)
12-2	FW003	1/4 Flat Washer (2)
12-3	FW004	W 1/4" Lock Washer (2)
12-4	FN007	N 1/4-20 Nut (2)
13	GV230-18-R1	Battery Cable, Black, 13"
13-1	ST301-6	Ring Terminal (2)
13-2	ST301-3	Connector, Battery Terminal, Negative
14	GV230-19-R1	Battery Cable, Red, 27"
14-1	ST301-3-P	Connector, Battery Terminal, Positive
15	FC001	U-Nut Spring Clip Steel (5)
16	GV180-17-R1	Wheel Axle
17	150310	Pin, Cotter, 1/8" x 2" (2)
18	W-10-SR	Wheel, 10", Solid Rubber (2)
19	FW030	3/4" Flat Washer-SAE (2)
20	FSB233	SB 5/16-18 x 1 3/4" HMS (2)
21	FSB042	SB 5/16-18 x 1 1/2" HMS (2)
22	FW003	1/4 Flat Washer (4)
23	FN014	N 5/16-18 Lock Nut-Crimped (4)
24	GV400-5-4	Oil Drain Hose
25	FSB011	SB 7/16-14 x 1 3/4" FHSCS (4) (Not Shown) Note: Bolts connect the chamber to the motor.
26	W-6-SWDL	Wheel, 6" Swivel, Double Lock (2)
27	28-36	Tank, 5 Gallon
27-1	KP1000-46	Fuel Tank Hold Down Strap (2)
27-2	28-57	Strainer, Fuel
27-3	GV230-34	Strap, Rubber (2)
28	104	Clamp, Pinch (7)
29	RM-OTH202-EPA	1/4" Fuel Line, 48" Long
30	RM-OTH202-EPA	1/4" Fuel Line, 22" Long
30-1	RM-OTH202-EPA	1/4" Fuel Line, 8" Long
31	23001	Barb, 1/4" x 3/16" Splicer, Plastic
32	BS-230	Fuel Shut Off, Inline 1/4"
33	GV100-11	Hour Meter
34	RM-OTH205-MI	Tubing, Flex/Split 3/8", 93" Long (Not Shown)
35	GV230-35	Rubber Grommet, 1" (Not Shown)



65 YEARS OF AMERICAN INGENUITY

Made in the U.S.A.

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