



OWNERS MANUAL MODEL #800-G



60 YEARS OF AMERICAN INGENUITY

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CONGRATULATIONS ON YOUR PURCHASE OF KRENDL EQUIPMENT

MODEL #800-G OWNER'S MANUAL

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

WARNING: FOR ANY GAS OR DIESEL EQUIPMENT THAT IS NOT INSTALLED IN A TRUCK OR TRAILER BY KRENDL MACHINE, **WARRANTY WILL BE VOIDED IF NOT INSTALLED TO THE EXACT INSTRUCTIONS OF THIS MANUAL. (SEE INSTALLATION SECTION)**

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INTRODUCTION

Thank you for purchasing a **KRENDL INSULATION MOVING MACHINE**. With over sixty years experience in manufacturing insulation moving equipment, we have designed and built your machine 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 condition and apply insulation with the utmost in dependable performance. Our primary objective is to build equipment which will provide complete satisfaction so that you may confidently recommend Krendl to others.

We do 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, may we hear from you? We want you to be able to operate this unit safely and confidently.

UNPACKING: Store and unpack carton with correct side up. Unpack your machine **IMMEDIATELY** and check for damage in shipping. **Place any damage claim with delivering carrier, saving all packing materials for inspection.** Our warranty covers manufacturer's defects only. **DO NOT** return to shipper.

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 in-warranty repairs. You may also want to attach a copy of your invoice.

Machine Model No. _____ Engine Manufacturer _____
Machine Serial No. _____ Engine Model No., Serial No. _____

Blower(s) Manufacturer _____ Generator Manufacturer _____
Blower(s) Model No., Serial No. _____ Generator Model No., Serial No. _____

Gear Motor Manufacturer _____ Date of purchase _____
Gear Motor Model No., Serial No. _____ Supplier _____

The model and machine serial numbers are located on the hopper of the machine unit. The blower(s) serial number(s) is located on the motor housing of the blower(s). The motor(s) serial number(s) is located on the motor(s) housing and the reducer serial number is located on top of the reducer.

UNPACKING AND INSPECTING EQUIPMENT

RECEIVING YOUR MODEL #800-G KRENDL MACHINE:

Immediately check the condition of your Model #800-G machine when it is received. It should be received in the same condition that it was shipped to you. **If there are any visible problems with your machine or any other items in the shipment, it is imperative that you place any claim with the delivery carrier.** Please save all packaging materials for inspection. The delivery carrier should also contact our office before leaving the premises to notify us of a claim. The ownership to your machine and all other items in the shipment were transferred to your name as soon as the shipment left our premises, thus it is your responsibility to contact us with any claims. Contact the truck line to arrange for an independent inspector to come out to inspect the damage and to prepare the inspection report. It is imperative that this inspection is done prior to unpacking or using any of the equipment. Please contact us for assistance or with any questions you may have regarding the claim process.




UNPACKING:

Handle all cartons with care to avoid damage from dropping or bumping. Completely remove machine from the packaging and from any shipping pallet or skid to which it might be attached. In addition, completely remove all shipping materials from inside the machine. Check that all parts are included as stated on the below.

ACCESSORIES INCLUDED:

- 150' REMOTE CONTROL CORD
- 5/16 ALLEN WRENCH FOR ADJUSTMENT OF CHAIN IDLERS
- MULTIMETER
- #40 CHAIN MASTER LINK
- EXHAUST SYSTEM
- FRESH AIR FLANGE w/HOSE
- OWNERS MANUAL

GENERAL SAFETY INFORMATION

-  **Important:** Read **all** instructions **before** operating this unit. 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.
-  **Important:** Please recheck inside the hopper for any loose items or damaged equipment. Injury may occur when equipment is started with foreign material in the hopper.



General Safety

1. Read this manual carefully and become familiar with your machine. It is important to know its applications, limitations, and any hazards involved prior to operating the machine.
2. This machine was designed and manufactured for blowing cellulose, fiberglass and mineral fiber. Do not attempt to modify the unit or use it for any application it was not designed for. If you have any questions about your intended use or the machine's suitability, ask your dealer/distributor or consult the factory. The manufacturers could not possibly anticipate every circumstance that might involve a hazard. For that reason, warnings in the manual and warning tags or decals affixed to the unit, are not all-inclusive. If you intend to handle, operate, or service the unit by a procedure or a method not specifically recommended by the manufacturer, first make sure that such a procedure or method will not render this equipment unsafe or pose a threat to you and others.
3. Do not disable any of the safety features on the equipment. These features are for your protection and safety.
4. Read and obey all safety and operating instructions in the manual and on the machine.
5. Equipment is to be operated and/or maintained by TRAINED & QUALIFIED personnel ONLY!!
6. **BEFORE PERFORMING ANY MAINTENANCE ON THE MACHINE, YOU MUST FIRST:**
 - #1 TURN MAIN SWITCH LOCATED ON MACHINE TO THE "OFF" POSITION
 - #2 TURN THE ENGINES IGNITION TO THE "OFF" POSITION AND REMOVE KEY
 - #3 DISCONNECT THE BATTERY CABLE
7. Do not operate the machine without all guards and safety equipment installed in the proper location and in working order. Always follow the proper shut down procedures outlined in Item 6 when guards are removed from the machine or when compartment or electrical control doors need to be opened.
8. If a malfunction occurs while running the machine, turn it off immediately, follow the directions under item 6 and correct the problem prior to restarting the machine.
9. Keep body and all clothing away from rotating equipment. Rotating shafts can be dangerous.
10. Always wear proper safety equipment when operating the machine. This includes steel toed shoes, safety glasses and a respirator.
11. Under no circumstances should your hand, a stick or a broom be used to force material down into the hopper. The machine is a self feeding design and requires no outside assistance.
12. Stand on the floor, not a platform while operating the machine. The operator may lose balance and fall while loading bags of material.



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.
- Never handle any kind of electrical cord or device while standing in water, while barefoot or while hands or feet are wet. Dangerous electrical shock will result.
- Use a ground fault circuit interrupter (GFCI) in any damp or highly conductive area. (metal decking or steel work)
- Reference NFPA 79, 70E, or OSHA safe work practices when performing energized work procedures.



Safety/Caution

- **Be Safe** - Keep away from moving parts.
- **Be Safe** - Make sure all guards are in proper place **before** operating machine. Guards and safety devices/switches should not be removed, modified or by-passed.
- **Be Safe** - Disconnect power supply, remove key from ignition and disconnect red positive battery cable **before** removing motors or hopper.
- **Be Safe** - Maintenance service must be performed by a qualified technician.
- **Be Safe** - Make sure machine is properly grounded. Protect all electrical supply cords from sharp objects, moisture, and other potentially hazardous materials. Keep power cords in good repair. Electrical service must be performed by a qualified electrician.
- **Be Safe** - Disconnect power supply, remove key from ignition and disconnect red positive battery cable **before** inspecting or adjusting unit.
- **Be Safe** - Consult a qualified technician to answer questions **before** attempting to operate, or injury may result.
- **Be Safe** - Do not operate machine alone.
- **Be Safe** - Do not leave machine unattended and energized.
- **Be Safe** - Disconnect power supply, remove key from ignition and disconnect red positive battery cable **before** clearing and feeding jam or attempting to remove any object in the hopper.
- **Be Safe** - Keep hands, loose clothing, jewelry and hair away from agitators, gears, chains and other moving parts.
- **Be Safe** - Use proper lifting when moving insulation and loading machine.
- **Be Safe** - Keep work area clear of debris.
- **Be Safe** - Wear proper safety equipment, including protective gear, such as respirators, eye and ear protection.
- **Be Safe** - Violation of the Owner's Manual or safety precautions may void warranty.



Make Sure!

- Hopper is empty of foreign objects **before** starting.
- Adequate electrical power is supplied or damage to unit will result.
- Blower filter is kept clean and in place when blower is on.
- Machine is turned off **immediately** if hose is plugged, or blower will overheat.
- Machine must be on **before** adding insulation.
- Blower(s) must be on, when agitators are running, or machine will bind.
- Agitator motor is not run with hopper empty for more than a few minutes, or damage to seals will result.
- Sprockets, chains, belts and pulleys are correctly **aligned** and **tensioned**.
- Pieces of bag are **not** left in the machine as this can bind and stall your machine.
- This machine should only be used with good quality insulations that are dry, undamaged and that meet a certain industry specification or quality standards.
- Set screws on tension bar inside hopper have not backed out due to vibration. This could cause material to get underneath the base and damage motors. Failure to check **will** void the warranty on motors.

DECALS



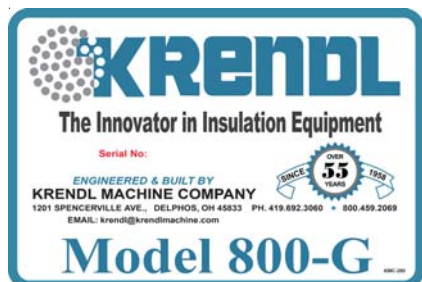
Indicates that keeping the filter clean will result in longer blower life and better performances.



Do not smoke around machine. Machine contains a flammable liquid. 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.



Manufacturer information is provided here along with machine model, and serial number.



Indicates which employee inspected the equipment and on what date.



Made in the U.S.A



Opens and closes the material feed gate which in turn controls the production.



Indicates if blower is off, on, or on with agitator.



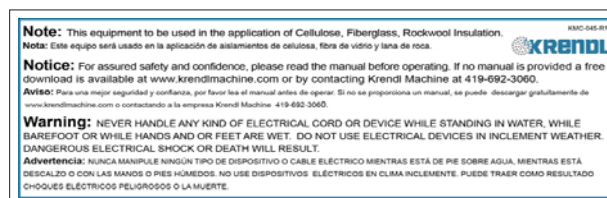
Rotating parts will be moving in this direction.



Part number for identification and tracking.



Indicates location of the fuel shut-off valve.



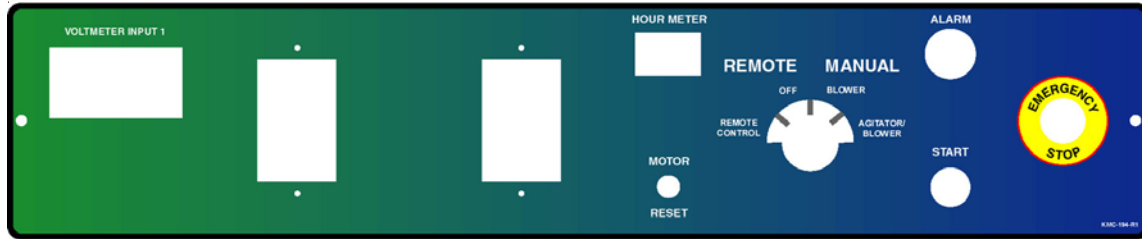
Identifies what type of insulation should be used with this machine and that the manual should be read before operating. Warns to be careful around electrical components! This can cause serious injury or death.



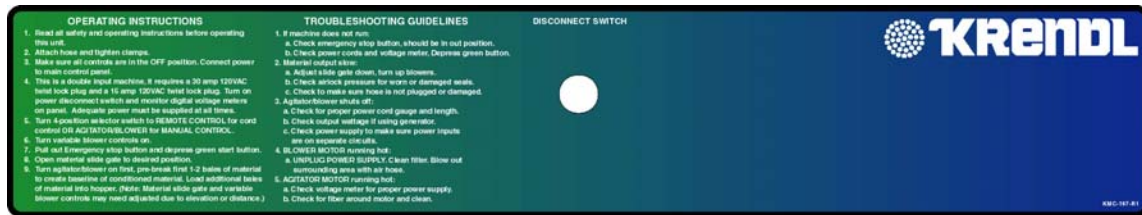
During operation, this machine is loud. Wear hearing protection. Failure to do this could result in hearing loss.



Identifies position of material feed gate.



Indicates the controls that start, stop, and run the machine.



Provides the necessary instructions to properly operate and troubleshoot the machine. Failure to follow these instructions could result in damage to the machine.



Specifies the voltage and amps this outlet is rated for.



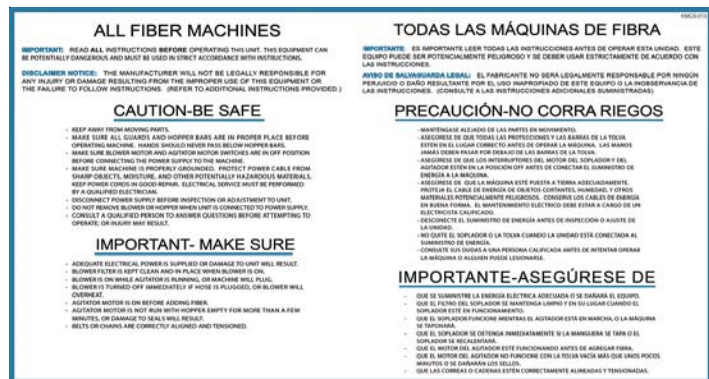
Indicates that the engine requires fresh air. Supplying the engine with fresh air will result in better performance and longer life.



Identifies the choke lever.



Identifies the ignition switch.



General safety information intended to reduce the risk of serious injury or death



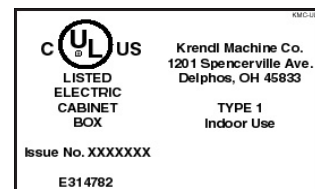
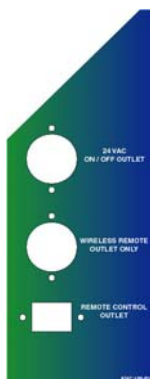
Indicates if the machine is running on generator power or line power.

Identifies the three outlets on this side of machine.

Remote Control Outlet - Indicates that this outlet is intended for only the remote control outlet. Each time machine cycle starts, an audible alarm warns the operator that the machine is about to come on.

Wireless Remote Outlet - Indicates that this outlet is intended for only the wireless remote. Each time machine cycle starts, an audible alarm warns the operator that the machine is about to come on.

24VAC On/Off Outlet - Specifies the voltage this outlet is rated for.



Indicates that the electrical box on the machine is in compliance with UL codes.



Indicates that the key must be in the off position or the machine will drain the battery.

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.)

Warning: For any gas or diesel equipment that is not installed in a truck or trailer by Krendl Machine, warranty will be voided if not installed to the exact instructions of this manual. (See installation section).

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.

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.

SPECIFICATIONS

	U.S.
MODEL#:	800-G
HEIGHT:	68 1/2" (174 cm)
WIDTH (DEPTH):	36" (91 cm)
LENGTH:	50" (127 cm)
WEIGHT:	780 pounds (354 kg)
ELECTRICAL:	240VAC, (1) 30 amp, S.I.
BLOWER VOLUME:	(2) 140 CFM
BLOWER PRESSURE:	4 1/2 PSI maximum
HOSE OUTPUT:	3" diameter (7.6 cm)

MAXIMUM FEED RATES:

CELLULOSE:	2600-2800 lbs/hr	(1179-1270 kg/hr)
FIBERGLASS:	800-1000 lbs/hr	(363-454 kg/hr)
MINERAL FIBER:	2500-2700 lbs/hr	(1134-1225 kg/hr)

WARNING: Recommended hose size, type and length must be used to achieve maximum results. Krendl cannot guarantee performance of the machine if hoses are undersized, worn, damaged, or hoses other than those we recommend are used.

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

INSTALLATION

MACHINE INSTALLATION SPECIFICATIONS:

Your Model #800-G Krendl Machine can be mounted in any truck, trailer or chassis configuration. The body should have a full width rear door. The Krendl Model #800-G Machine can be mounted anywhere in the truck body, as long as the engine, blower and electric cooling fan can receive fresh air.

*****INSTALLATION NOTE:** It is very important that all of the truck or trailer body doors be open to provide proper ventilation to the engine. If the unit cannot receive clean cool air, engine cooling problems may occur. This will void the warranty on the machine and the engine!

TOOLS NEEDED:

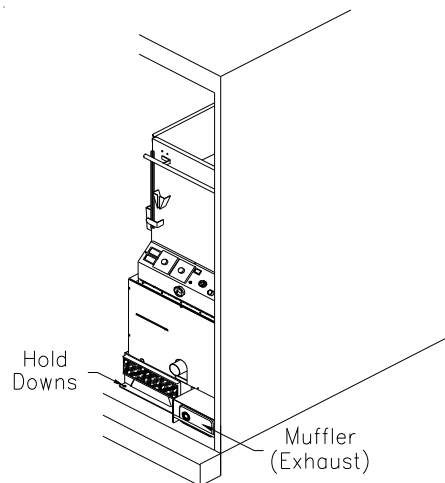
1/2" Heavy Duty Drill
Drill Bits: 9/16" for bolts
Fork Lift (means to lift the machine)
Pry Bars
Basic Wrenches

INSTALLATION INSTRUCTIONS:

- 1) Position the machine in the truck or trailer so that the unit can receive clean cool air and be properly ventilated with exhaust facing an open door. (See illustration A)
- 2) Check under the truck or trailer body that the machine mounting holes will not interfere with any components underneath. If there is an interference with any of the components, then you will need to adjust the position of the machine to clear the obstruction.
- 3) Drill 9/16" holes on all four corners of the base using the machine hold downs as guides.
- 4) Fasten machine down on all four corners using 1/2" bolts, washers, lock washers and nuts. (See illustration A) **Note: Hardware is not included and length of bolts may vary due to thickness of floor.**

WARNING: Engines give off carbon monoxide, an odorless, colorless, poison gas. Breathing carbon monoxide can cause nausea, fainting or death. Do not start or run engine when exhaust is not properly ran outside.

WARNING: For any gas or diesel equipment that is not installed in a truck or trailer by Krendl Machine, warranty will be voided if not installed to the exact instructions of this manual. (See installation section).



(Illustration A)

BASIC COMPONENTS: #800-G

This is a view of the basic components of your #800-G machine. It shows the location of each item and gives the function of each. Use this as a guide throughout the manual.

A) BASE UNIT — Lower frame unit supporting blower, gearmotor, airlock and hopper.

B) AIRLOCK — Traps air and insulation while providing a metered flow.

C) SLIDEGATE — Meters the amount of insulation dropping into the airlock by controlling size of airlock opening.

D) MOTOR & REDUCER — Provides driving power of agitation system. Increases output power while decreasing speed of the agitators and airlock.

E) BLOWER (2) — Creates air pressure to blow insulation out of airlock.

F) GAS ENGINE — Provides driving power for the generator. (Not shown)

G) AGITATOR (2) — Conditions insulation in the hopper.

H) HOPPER — Upper unit of machine holding insulation.

I) EMERGENCY STOP BUTTON — Safety device for immediate stopping of machine. (Located on main control panel)

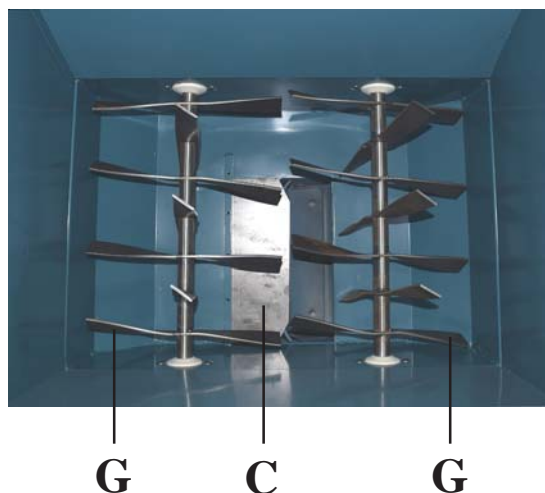
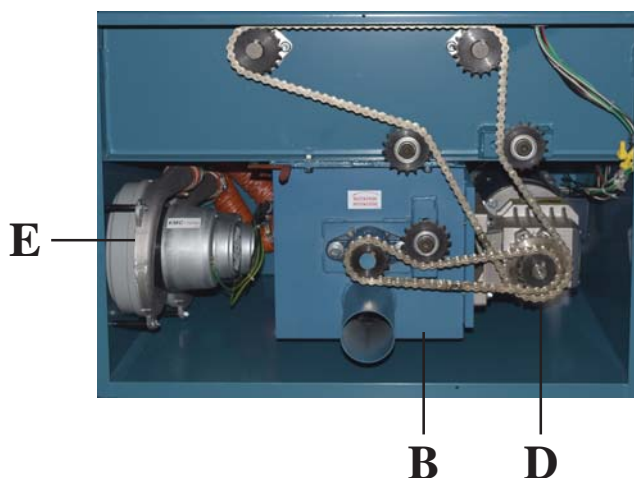
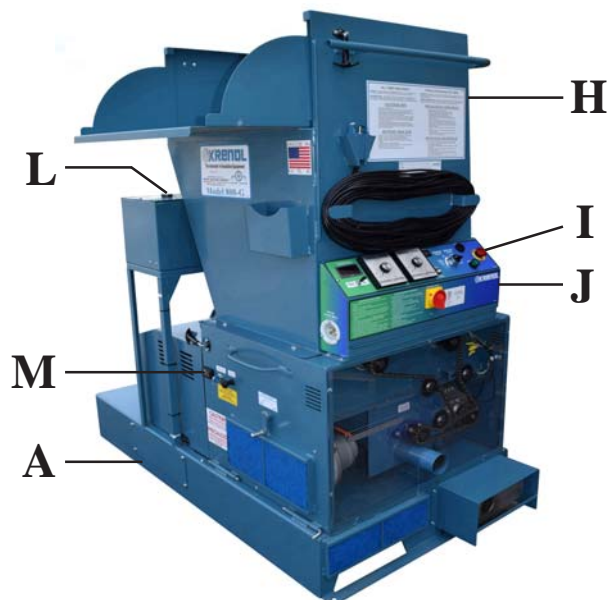
J) MAIN CONTROL PANEL — Connects with main power, allowing operation of unit at machine or remote cord.

K) BATTERY — Supplies power for the electric start on the engine. (Not shown)

L) FUEL TANK — Provides the fuel necessary to run the machine.

M) HOUR METER / TACHOMETER — Monitors the use and speed of the engine.

N) GENERATOR — Provides power to all electrical components on machine. (Not shown)



OPERATING INSTRUCTIONS**Machine Start-up**

This unit comes ready for connection to insulation hose, power cord, and accessories.

The #800-G provides a direct connection to 3" insulation hose. Slide hose onto outlet and secure with a hose clamp. **Note: All hose connections must have hose clamps to prevent air leakage from blower to nozzle. This helps prevent hose plugging.**

Remove remote control cord, packet, accessories, ect. from hopper and plug remote control cord into **Main Control Panel** located on machine. (See Illustration B & C)

! When assembling unit, make sure remote control **hand pendant** switch is in the **off** (middle) position and close **slidegate**.

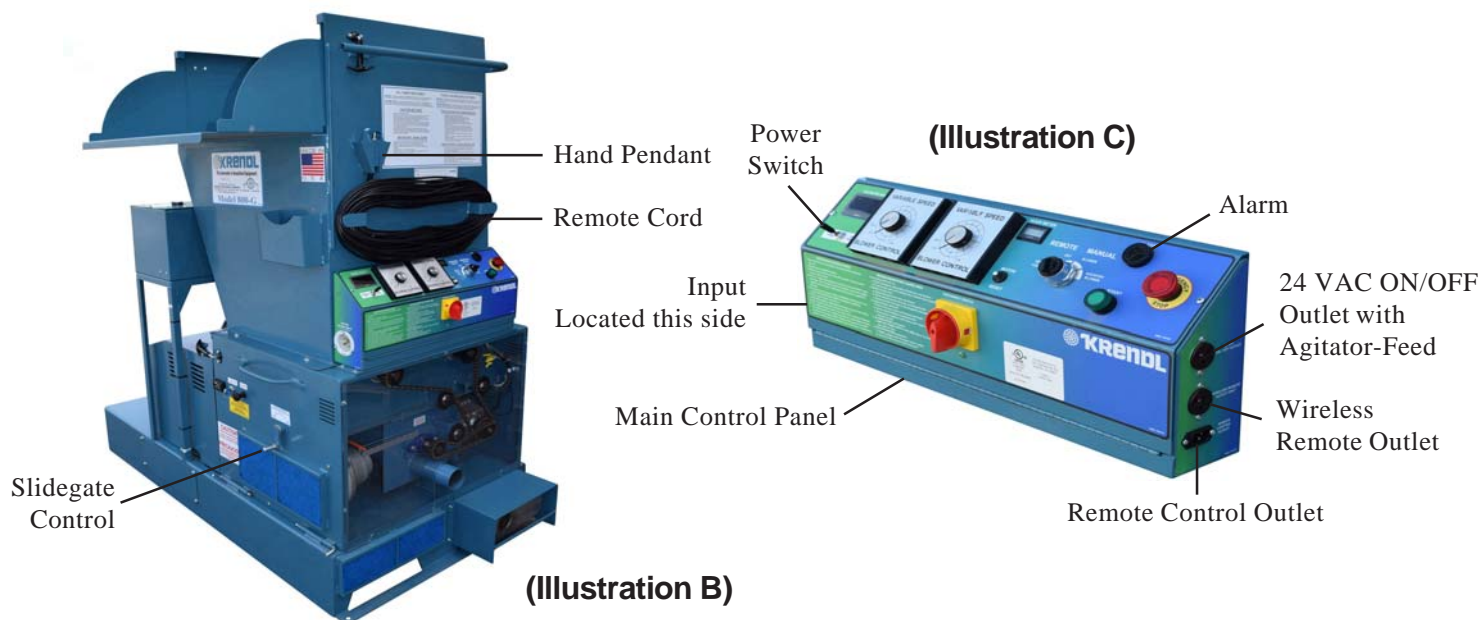
The first bag of insulation into hopper should be well broken by hand to assist agitator action. **Caution: Never** put hands in hopper when machine is running or force feed material by pushing down on insulation.

Starting Your Krendl Model #800-G Machine (Line Power):

1. Connect power to Input located on side of Main Control Panel. (See Illustration C)
 - a. **For 240volt, 60hz. models**, the extension power cord should have an input wire gauge size of #10-4 and not exceed 50' in length. **(See Voltage Drop Chart)**
2. Flip switch on **Main Control Panel** to line power. Your machine is now ready for operation.

Starting Your Krendl Model #800-G Machine (Generator Power):

1. After installing your Model #800-G according to the installation instructions, it is now time to start your machine. Again, check all engine fluid levels and that all guards are installed properly.
2. Make sure fuel shut off valve is in the "on" (vertical) position.
3. Pull choke out and start engine. Close choke after 3 seconds. Let engine warm up for a few minutes.
4. Flip switch on **Main Control Panel** to generator power. Your machine is now ready for operation.



VOLTAGE DROP CHART

Typical voltage drop values based on conductor size
and one-way length* (60 C termination and insulation)

25 FEET									
		12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	3 AWG	2 AWG	1 AWG
AMPERES	20	1.98	1.24	0.78	0.49	0.31	0.25	0.19	0.15
	30		1.86	1.17	0.74	0.46	0.37	0.29	0.23
	40			1.56	0.98	0.62	0.49	0.39	0.31
	50				1.23	0.77	0.61	0.49	0.39
	60					0.93	0.74	0.58	0.46

50 FEET									
		12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	3 AWG	2 AWG	1 AWG
AMPERES	20	3.95	2.49	1.56	0.98	0.62	0.49	0.39	0.31
	30		3.73	2.34	1.47	0.93	0.74	0.58	0.46
	40			3.13	1.97	1.24	0.98	0.78	0.62
	50				2.46	1.55	1.23	0.97	0.77
	60					1.85	1.47	1.17	0.92

75 FEET									
		12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	3 AWG	2 AWG	1 AWG
AMPERES	20	5.93	3.73	2.34	1.47	0.93	0.74	0.58	0.46
	30		5.59	3.52	2.21	1.39	1.1	0.87	0.69
	40			4.69	2.95	1.85	1.47	1.17	0.92
	50				3.69	2.32	1.84	1.46	1.16
	60					2.78	2.21	1.75	1.39

100 FEET									
		12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	3 AWG	2 AWG	1 AWG
AMPERES	20	7.90	4.97	3.13	1.97	1.24	0.98	0.78	0.62
	30		7.46	4.69	2.95	1.85	1.47	1.17	0.92
	40			6.25	3.93	2.47	1.96	1.56	1.23
	50				4.92	3.09	2.45	1.94	1.54
	60					3.71	2.94	2.33	1.85

125 FEET									
		12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	3 AWG	2 AWG	1 AWG
AMPERES	20	9.88	6.21	3.91	2.46	1.55	1.23	0.97	0.77
	30		9.32	5.86	3.69	2.32	1.84	1.46	1.16
	40			7.81	4.92	3.09	2.45	1.94	1.54
	50				6.15	3.86	3.06	2.43	1.93
	60					4.64	3.68	2.92	2.31

150 FEET									
		12 AWG	10 AWG	8 AWG	6 AWG	4 AWG	3 AWG	2 AWG	1 AWG
AMPERES	20	11.85	7.46	4.69	2.95	1.85	1.47	1.17	0.92
	30		11.18	7.03	4.42	2.78	2.21	1.75	1.39
	40			9.38	5.90	3.71	2.94	2.33	1.85
	50				7.37	4.64	3.68	2.92	2.31
	60					5.56	4.41	3.50	2.77

Ex: A two-wire 20-ampere circuit using 12 AWG with a one-way distance of 25 feet will drop 1.98 volts;
240 volts - 1.98 volts = 238.02 volts as the load voltage.

Caution: Operating unit with less than required voltage, more than required voltage, or inadequate generator size will result in damage to electrical components. This machine is marked on the side of the Main Control Panel with the correct input voltage required. **Note:** Agitator motor and blower(s) should only be operated with steady or constant flow of electricity. **Do not** operate machine with less than or more than required voltage. Damage to motors and other electrical parts will result, voiding warranty. Check voltmeter on Main Control Panel when machine is running.

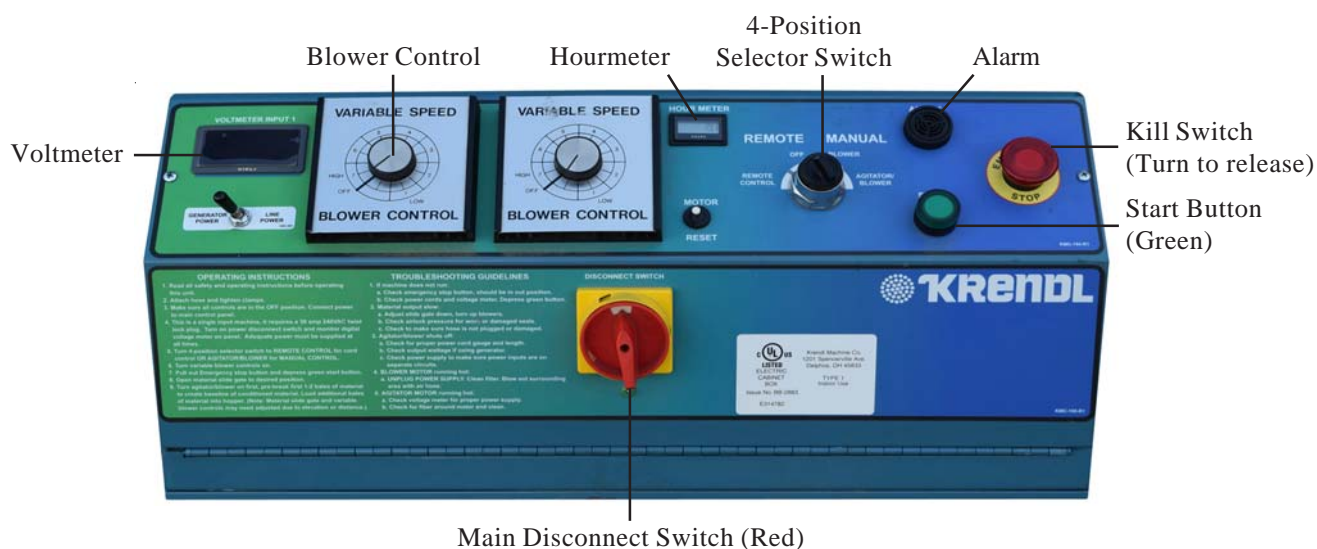
Electrical Operation

PRESS KILL SWITCH TO IMMEDIATELY STOP MACHINE AT ANY TIME!

1. Make sure Kill Switch is out by turning. (See Illustration D)
2. Turn *red* Main Disconnect Switch to ON position. (See Illustration D)
3. Set 4-Position Selector Switch to OFF. (See Illustration D)
4. Press *green* start Button. **Machine will not run unless start button is pressed *after* Kill Switch is out and *red* Main Disconnect Switch is on.** (See Illustration D)
5. Select operating mode on 4-Position Selector Switch from one of the following options:

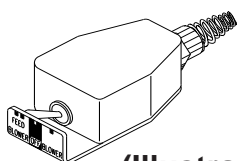
Remote:	Remote control hand pendant will control machine.
Off:	Machine will not run. (overrides remote hand pendant)
Blower:	Only the blower will run continuously. (manual control at machine)
Agitator-Feed/Blower:	Both the blower and the agitator-feed will run continuously. (manual control at machine)

Main Control Panel (lid closed)



(Illustration D)

6. When operating in **Remote mode**, the 4-Position Selector Switch must be set to **Remote** position. (See Illustration D)
7. Remote control hand pendant positions will be selected from the following:



(Illustration E)

- | | |
|--------------------|---|
| BLOWER-FEED | - operates both blower motor and agitator-feed motor simultaneously |
| OFF | - (middle position) all functions stop |
| BLOWER | - operates the blower motor only |

8. If using optional Internal Wetting System (IWS), connect IWS cord to 24 VAC Outlet on Main Control Panel. (See Illustration C)
9. Adjust blower(s) and slidegate to desired settings. (See page 14 and 15)

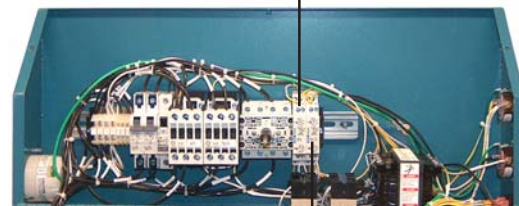
Electrical Operation Cont.

10. **To adjust alarm time**, for agitators and blowers follow the procedure below: (See Illustration F)

- Unplug machine from power source.
- Turn **off** *red* Main Disconnect Switch, loosen two screws in door, and open Main Control Panel lid.
- Turn Timer Relay knob for agitator (timer on left) to desired setting. (clockwise to **increase** warning time)
- Turn Timer Relay knob for blower (timer on right) to desired setting. (Note, by turning blower relay knob clockwise by (1) sec more than the agitator relay it will reduce hose plugging and power draw)
- Close lid, tighten two screws in door, plug in machine, turn on *red* Main Disconnect Switch and press *green* Start Button.
- Retest machine.

Main Control Panel (lid open)

Agitator Alarm Timer Relay (left)



Blower Alarm Timer Relay (right)

(Illustration F)

Machine Shut Down

Stopping Your Machine (GENERATOR POWER):

- Switch the remote switch to "BLOWER" and wait until the hose is clear of all material.
- Let the engine run for a couple of minutes to cool down.
- Turn the control switch on the remote control cord to the "off" position and unplug the remote control cord from the panel.
- Turn the key switch to the "off" position.



MACHINE DAMAGE NOTE:

DO NOT FILL THE HOPPER TO CAPACITY AT THE END OF THE DAY. THE MATERIAL WILL COMPRESS AND CAN CAUSE MACHINE LOCKUP DURING THE NEXT START-UP.

Mechanical Settings

Your machine contains blower and slidegate controls used to adjust your machine for each application and type of insulation. (See Illustration G on page 16 for location of controls) **Blower control** (air) and **slidegate** (material feed) are adjusted according to:

- | | |
|----------------------------|--|
| Application: | Open blow, retro-sidewall and spray-on applications require varying amounts of control. |
| Type of Material: | Cellulose, fiberglass, and mineral fiber have different textures and densities that respond to machine settings. |
| Hose: | Corrugations or roughness of interior surface, diameter, length and elevation of hose will also require varying adjustments. |
| Weather Conditions: | Temperature and humidity may require day to day adjustment of machine settings. |

BLOWER CONTROL AND SLIDEGATE GENERAL SETTINGS:

Blower control can increase or decrease the amount of air in the system, affecting the velocity (speed) and spread rate (coverage) of insulation. (See Illustration G on page 15) The blower control dial operates clockwise, from HIGH to LOW, controlling air pressure and amount of air.

Opening or closing slidegate (material feed) controls the amount of insulation dropping into the airlock which changes the production rate (lbs. per hour). (See Illustration G) For calibration purposes the scale located on right side of machine indicates how many inches the airlock slidegate is opened.

The blower and slidegate controls **working together** affect the distance insulation can be blown through a hose without plugging. These controls also affect the accurate blowing of insulations for spraying applications.

These settings control the following:

- **Density** of insulation blown in application.
- **Velocity** of material impact when spraying.
- **Dust** on open blow.
- Material **spread rate** or coverage.
- **Production** rate (lbs. per hour blown).

Slidegate Control
Slidegate Setting



(Illustration G)

GENERAL BLOWER CONTROL AND SLIDEGATE SETTINGS FOR OPEN BLOW:

With the **slidegate** closed, turn **agitator-feed motor on** and variable speed blower control(s) on low. Fill hopper with insulation and adjust **blower control** and **slidegate**. In making adjustments, move controls proportional to each other. (i.e. If variable speed **blower control** is half speed, **slidegate** should be half open.) Open slidegate to allow insulation to drop into the airlock providing good production, but not to the point where hose plugs. As hose length is increased, the **blower control** speed is increased while closing the slidegate proportionally. This will increase the distance insulation can be blown through the hose and improve material coverage rate, while decreasing the blowing production rate (lbs. per hour blown). These adjustments are for open blow. If specialty application or retro sidewall work is done, refer to General Blower/Slidegate Settings chart (below left) or insulation manufacturer. (See Illustration G)

GENERAL BLOWER/SLIDEGATE SETTINGS:

Since specific settings need to be determined by each operator, the following are only suggested guidelines. Consult the insulation manufacturer for additional recommendations specific to **their** product.

APPLICATION	BLOWER CONTROL	SLIDEGATE
Open Blow	High	Full Open
Sidewall-Retrofit	Low-Med	1/3 Open - Half Open
Wall Cavity Spray	Medium	Half Open
Commercial Spray (Adhesive)	High	1/3 Open

GENERAL MAINTENANCE

Your Krendl Model #800-G Machine is designed to be used with minimal maintenance for all its components. Periodic preventive maintenance will add years of life to your equipment. The following is only a guide; experience is the best guide for the right maintenance schedule for you.

DESCRIPTION	EACH SHIFT	40 HOURS	80 HOURS	200 HOURS	1000 HOURS
CHECK GUARDS	X				
CHECK ENGINE FLUID LEVELS	X				
CHECK DRIVE ALIGNMENT & TENSION		X			
CHECK ENGINE EXHAUST HOSE		X			
SERVICE ENGINE AIR CLEANER CARTRIDGE & CLEAN ENGINE COOLING SYSTEM		X			
CLEAN BLOWER AIR FILTER		X			
LUBRICATE DRIVE CHAINS W/ DRY LUBRICANT			X		
GREASE AIRLOCK & AGITATOR BEARINGS				X	
CHANGE ENGINE OIL AND FILTER (See engine manufacturer's manual for recommended maintenance schedule of when oil and filter should be changed)					

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:



(LINE POWER)

- 1) TURN RED MAIN DISCONNECT SWITCH TO OFF POSITION.
- 2) DISCONNECT LINE POWER.

(GENERATOR POWER)

- 1) STOP THE ENGINE COMPLETELY.
- 2) TURN THE IGNITION TO THE "OFF" POSITION AND REMOVE THE KEY.
- 3) DISCONNECT BLACK (NEUTRAL) 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.

General Maintenance (cont.)

RECOMMENDED LUBRICATION

ALL BEARINGS:	GREASE: MOBILITH AW-2 (NLGI grade #2)
DRIVE CHAIN:	DRY LUBRICANT (EG: DRY GRAPHITE)
ENGINE:	SAE SYNTHETIC MOTOR OIL <i>OIL TYPE:</i> 5W-30 OR 10W-30
AIRLOCK REDUCER:	OIL: MOBILGEAR SHC320

Air Intake Shroud

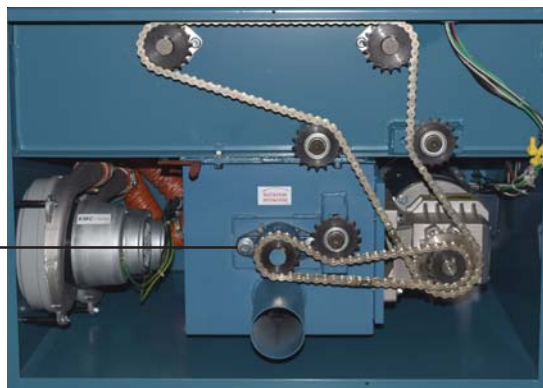
Note: Check air intake shroud periodically to ensure debris isn't getting sucked into engine cooling fan.

Air Intake Shroud



Bearing Grease Fittings

Airlock Fittings
(1 per side)



General Maintenance (cont.)

! KEEP CLEAN: During operation, keep material from accumulating on Blower Filter and keep vent holes on side of machine clear of debris by blowing with compressed air. Always keep Filter in place while operating machine. After each use, remove insulation from hopper and blow out hose.

Note: For certain models the gear box located on the side of the airlock may contain a vent cap. Keep airlock upright to prevent oil from leaking out of vent cap.

AIRLOCK:

SEAL REPLACEMENT: The purpose of the airlock seal is to trap air and insulation until it rotates 180° to the 6:00 o'clock position. At this point, insulation is pushed by air from the blower, out of the chamber. Worn or damaged seals allow air and insulation to escape back into hopper, thus reducing production and coverage. When it is necessary to replace seals, follow these directions:

Remove hopper from base unit. Check airlock rotor plates for damage (bent). If damaged (bent) the entire airlock will need replaced. (Refer to Airlock Replacement below.) Take out rubber seal by removing the three plate fastening bolts and top plate. Install new seal. Seal should be inserted tight against the rotor plate, pressing the lower tabs of seal down under the adjacent seal with a flat blade screwdriver. (See Illustration H) Before tightening bolts make sure all bolt holes are aligned while each side of seal is equally pressed against the end plates. Seal should be bent backwards for **counterclockwise** rotation.

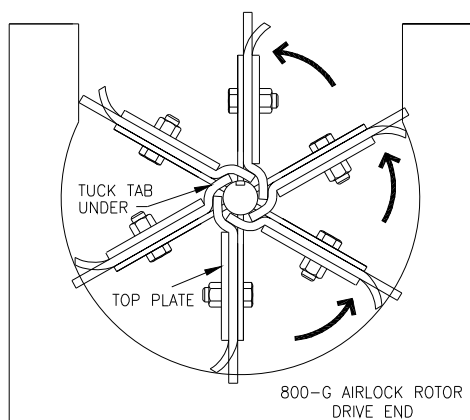


Illustration H

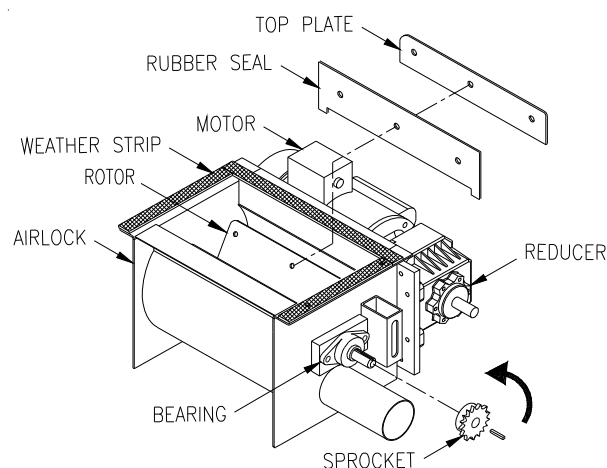


Illustration I

AIRLOCK REPLACEMENT (See Illustration I):

1. Remove the chain guard, chain, and hose from airlock.
2. Lay machine down and remove two bolts that secure airlock to machine. Take note of electrical connections and unhook gearmotor drive wires.
3. Remove airlock from machine.
4. Remove top plate and seal from rotor. Check seal and top plate for wear and/or damage.
5. Remove gear motor and bearings from old airlock.
6. Install gearmotor and bearings on new airlock. Tighten set screws on locking collar of bearings.
7. Install seal and top plate. As seal and top plate are installed, press bottom tab of seal under adjacent seal with flat blade screwdriver. (See Illustration H)
8. Install weather stripping on top outer edge of airlock.
9. Place airlock back into machine and reattach with bolts. Reinstall chain and sprocket.

NOTE: When inserting airlock back into machine, make sure back lip of airlock slides into airlock track then fasten bolts. Also, make sure slidegate is in slidegate track.

General Maintenance (cont.)



Make sure seal and top plate are assembled on **correct** side of rotor plate before assembling in airlock. Seal should press backward towards top plate when installed correctly into airlock chamber. The airlock runs **counterclockwise** viewing it from the sprocket drive shaft. (See Illustration H on page 18) **Caution:** If installed improperly, damage to seals will result and put undue stress on agitator motor. This causes overheating and poor production. Seal should be bent backward to allow for a **counterclockwise** rotation of rotor.

CHAIN: (#40 Nickel Plated)

ADJUSTMENT: A smooth operating chain drive should have a slight sag on the idler side of the chain. New chains should be installed under slight tension as they will elongate a small amount due to seating of pins and bushings during the first few days of operation. Excessive chain tension or loose chain will cause shortened life of bearings, chain, and sprocket. Chain should be kept in good condition by proper lubrication (dry film lubricant Dow 321) and occasional cleaning. Soaking chain in container of 10 weight oil will provide for internal lubrication of pins and bushings. However, excess oil must be drained and wiped away as excessive lubrication will cause insulation accumulation on chain. Worn out chain should be replaced. When chain is replaced, worn sprockets should also be replaced, preventing further damage to new chain.

SPROCKETS:

CHECK SPROCKETS FOR WEAR. Misalignment and/or loose sprockets and improper chain tension causes the premature wear of chain and sprockets. All sprockets, except the idler sprocket, have been secured with a medium grade Loctite (general purpose thread locker), to prevent gradual movement. The set screws and key are also inserted with a medium grade Loctite. If sprocket is difficult to remove, it may be heated with a propane torch to loosen.



Caution: Do not overheat sprocket or damage to bearing will result. A pulley or bearing puller can then be used to remove the sprocket and key. Replace new sprocket on shaft with key and medium grade Loctite applied to shaft. Align sprocket with corresponding sprocket, using a straightedge placed along face of teeth and tighten set screw. Gearmotor sprocket does **not** require Loctite.

BEARINGS:

AGITATOR BEARINGS in base unit are prelubricated, double-sealed, self aligning ball bearings. **No** lubrication is necessary. If bearings produce noise or heat (*too-hot-to-touch*), replace the bearings.

AGITATOR BEARING REPLACEMENT: Spray area with rust penetrant (WD-40). Remove sprocket (See SPROCKET section above). Remove the two bolts from bearing flange and outer flange from bearing insert. Loosen set screws on bearing hub at each end of agitator shaft. Since all set screws are installed with a medium grade Loctite, a propane hand torch may be used to assist in removing them. Do not overheat unit, causing shaft to expand. Using a rubber mallet, drive agitator shaft an inch in one direction, creating a space between hopper and bearing unit. A bearing puller can then be used to remove the bearing. Eliminate any metal burrs from shaft with file and install new bearings with felt seals. Use a medium grade Loctite on set screws before securing bearing to shaft.

AIRLOCK BEARINGS are prelubricated, double sealed, self aligning ball bearings. Lubrication **is** required at three month intervals of normal running time, or sooner if bearings produce a noise or become *too-hot-to-touch*. Relubrication at the grease fittings is done with a lithium base grease conforming to a NLGI GRADE TWO consistency. The grease should be pumped in slowly until a slight bead forms around the seals. This bead, in addition to acting as an indicator of adequate lubrication, provides additional protection against the entry of foreign matter. **Important:** If a slight bead does **not** form, indicating a failure of lubrication, or if bearing shows signs of wear, replace bearing.

General Maintenance (cont.)

AIRLOCK BEARING REPLACEMENT: Remove two bolts from bearing and follow steps above for agitator bearing replacement.

SPEED REDUCER:

Periodically check oil level in reducer. If speed reducer malfunctions because of improper oil level or type used, **warranty is voided**. Oil seals at input and output drives are considered to be replaceable maintenance items and can affect oil level. These are available at power transmission distributors. Your speed reducer has been filled with a synthetic lubricant (Mobilgear SHC 320).

LUBRICATION: This speed reducer was filled with oil at the factory to operate within -25°F to +113°F ambient temperature. This reducer will not require regular oil changes under normal industrial operating conditions. However, if the reducer is operated in severe environments (i.e. high or low temperatures, high altitudes) oil changes may be required.

AGITATOR MOTOR:

If agitator motor runs hot, unit may shut off. Wait for motor to cool, then activate the manual reset on Main Control Panel by depressing button. If unit does not run properly, refer to troubleshooting sections of manual. The agitator motor should start quickly and run smoothly. If not, shut motor off **immediately** and check the cause. Low voltage, incorrect power supply, bad bearings, or misconnected wiring could cause motor failure. **These conditions void the motor warranty.** Overload conditions can be detected by checking the electrical current (amperage) compared with nameplate current (amperage) located on the body of the motor.

AGITATOR MOTOR REPLACEMENT: (See Illustration J on page 21) Disconnect power from machine. Remove chain guard and drive chain. Lay machine down for better access to machine components. Take note of electrical connections and unhook motor drive wires. Loosen hose clamp on rear airlock input tube. Slide hose off airlock. Remove airlock and motor drive assembly out of base. **Note: When agitator motor is replaced reverse this procedure for assembly.** Remove four reducer flange bolts with a 9/16" socket wrench. (If bolts are difficult to reach, remove reducer unit from airlock for better access.) Pry motor from speed reducer a slight distance, using a large flat blade screwdriver placed in one of the slots where they join together. Pull motor unit straight away from speed reducer, retaining key. If motor does not separate easily, contact factory for assistance. Before installing replacement motor, refer to motor nameplate. Check connection of new cord for correct voltage (low or high) and proper rotation of **motor** output shaft (**counterclockwise** facing output shaft). Rotate keyways of motor shaft and quill (input) of speed reducer to 12:00 o'clock position. Assemble the key 3/4" off the end of the motor shaft and coat motor shaft with anti-seize compound. Align and insert the motor shaft carefully into the input quill. (A flat blade screwdriver may be helpful to keep key in place as motor shaft is inserted or centerpunch motor shaft.) Secure to flange with four hex bolts.

Caution: If the motor does not readily seat itself, check to determine if **key** has moved axially along motor shaft, causing interference. Tightening motor to reducer with excessive pressure against key will cause premature bearing failure and overheating of motor and reducer. Reconnect motor drive wires and check for correct rotation of **speed reducer** output shaft (**counterclockwise**). Reconnect assemble unit for operation.



General Maintenance (cont.)

BLOWER MOTOR:

Periodically lay machine on its side and vacuum any material that has accumulated around blower motor. Blow out any remaining debris around motor and intake orifice of fan with compressed air. This will extend the life of the blower significantly. Blower filter life can be extended by occasional removing and blowing through with compressed air. Filter should be replaced periodically depending on use. If blower produces noise or heat, refer to troubleshooting section of manual.

BLOWER REPLACEMENT: (See Illustration K) Disconnect power from machine. Remove chain guard. Loosen hose clamp on blower and slide hose off blower. Take note of electrical connections on blower and unhook blower wires. Remove three bolts and spacers from machine and remove blower. Reverse procedure for assembly. **NOTE: Do not over tighten bolts on re-assembly, it may damage blower and void warranty !!!**

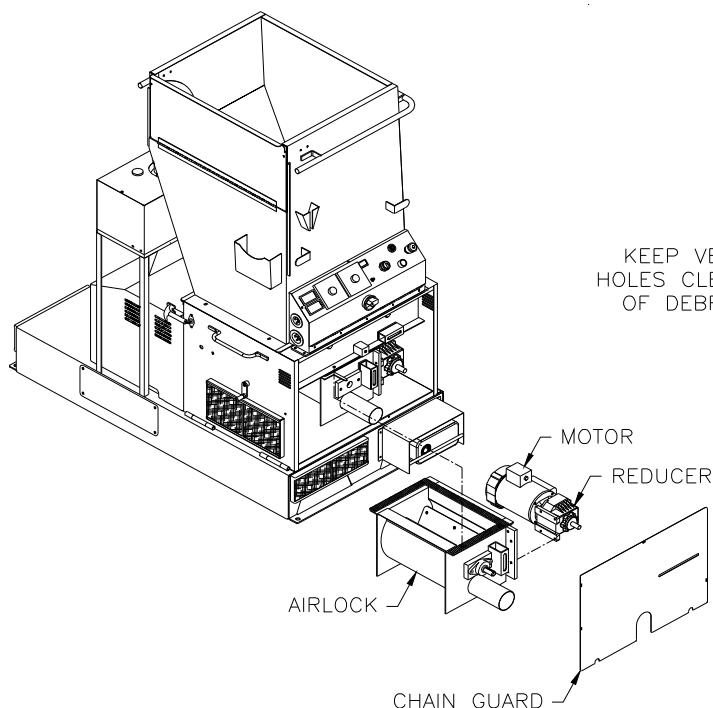


Illustration J

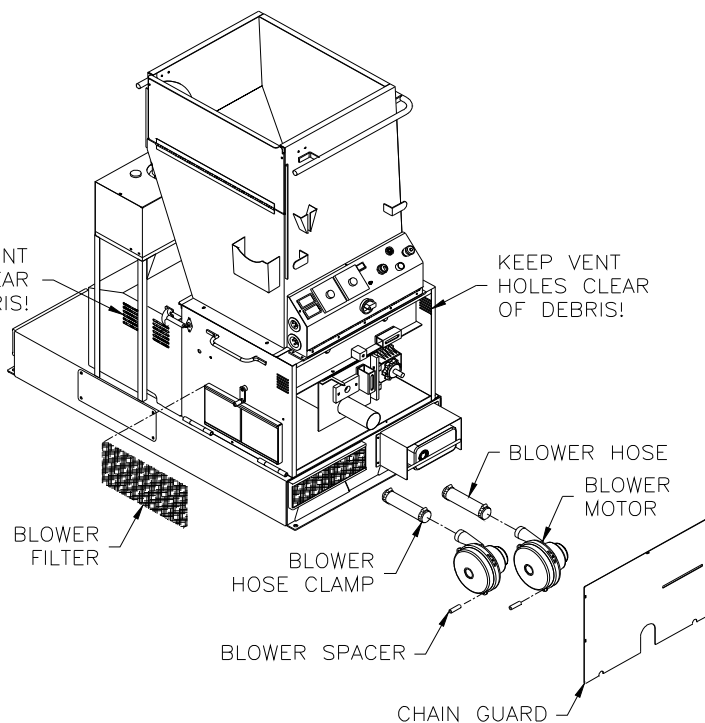


Illustration K

TROUBLESHOOTING

WARRANTY



This unit is backed by a warranty for manufacturer's defects. If machine needs service during that time, call your supplier immediately. **Do not** attempt to service, as this voids warranty.

IMPORTANT



At any signs of trouble with your machine, stop immediately and call your supplier. Refer to *General Maintenance* section of this manual for further details. Always turn machine off and disconnect power supply (line power) or remove ignition key and disconnect red cable from battery post (generator power) before making inspection or repairs.

TROUBLESHOOTING

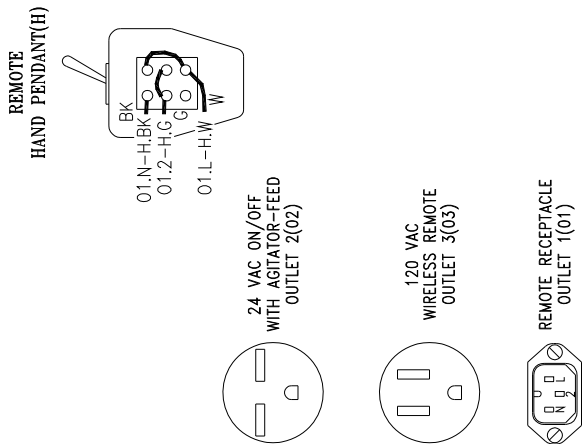
- 1) Engine will not start
 - A. Check if battery charge is low.
 - B. Check terminals on battery for good connection.
 - C. See Engine Manufacturer's Manual.
- 2) Engine starts but there are no other machine functions - no electrical power to the front panel
 - A. Check for loose or damaged wires, ground shorts which may be caused from machine vibration.
 - B. Turn off all power to machine before opening the main control panel.
 - C. Check kill switch.
- 3) Engine starts - but low voltage with generator
 - A. Allow engine and generator to warm up for a few minutes.
 - B. Adjust throttle knob on engine to increase RPM of motor. The voltmeter on electrical panel should read 240V while engine is running and there is no load on generator. (Agitator motor and blower motors not running.)
- 4) Machine does not run
 - A. Make sure emergency stop button on main control panel is pulled out and start button is pressed.
 - B. Check manual reset button on main control panel. Press to reset.
 - C. Check remote control cord for broken connections.
 - D. Check power cord for proper connections (Line power).
 - E. Check breakers inside main control panel.
- 5) Loud knocking sound
 - A. Turn off all power to machine. Check machine agitators and airlock for foreign objects.
 - B. Turn off all power to machine. Check for misaligned sprockets or loose chain.

Troubleshooting (cont.)

- 6) Poor output from machine or uneven flow through hose
 - A. Open slidegate
 - B. Turn blower control up.
 - C. Turn off all power to machine. Check for material bridging in hopper.
 - D. Low voltage, try another electrical source (Line power). Check extension cord wire size (See page 13)
 - E. Low voltage, adjust throttle knob on engine to increase RPM of motor (Generator power). The voltmeter on electrical panel should read 240V while engine is running and there is no load on generator. (Agitator motor and blower motors not running.)
- 7) Too much dust on open blow
 - A. Open slidegate
 - B. Turn blower control down.
- 8) Blower motor running hot
 - A. Turn off all power to machine. Clean filter. Blow out surrounding area with air hose. (See Illustration K)
 - B. Turn off all power to machine. Check for restriction in blowing hose.
 - C. Turn off all power to machine. Check for buildup of insulation around blower.
- 9 Agitator motor running hot
 - A. Turn off all power to machine. Check for insulation build up around motor and blow out with air hose.
 - B. Low voltage, try another electrical source (Line power). Check extension cord wire size (See page 13)
 - C. Low voltage, adjust throttle knob on engine to increase RPM of motor (Generator power). The voltmeter on electrical panel should read 240V while engine is running and there is no load on generator. (Agitator motor and blower motors not running.)
 - D. Turn off all power to machine. Check for debris jamming airlock. Rotate airlock manually and clean out.
 - E. Turn off all power to machine. Check for sprocket misalignment and bearing wear.
- 10) Hose Plugging
 - A. Turn off all power to machine.
 - B. Turn off red main disconnect switch, loosen two screws in door, and open main control panel lid.
 - C. Turn timer relay knob for blower (timer on right) to desired setting. (Note: By turning blower relay knob clockwise by (1) sec more than agitator relay will reduce hose plugging and power draw).

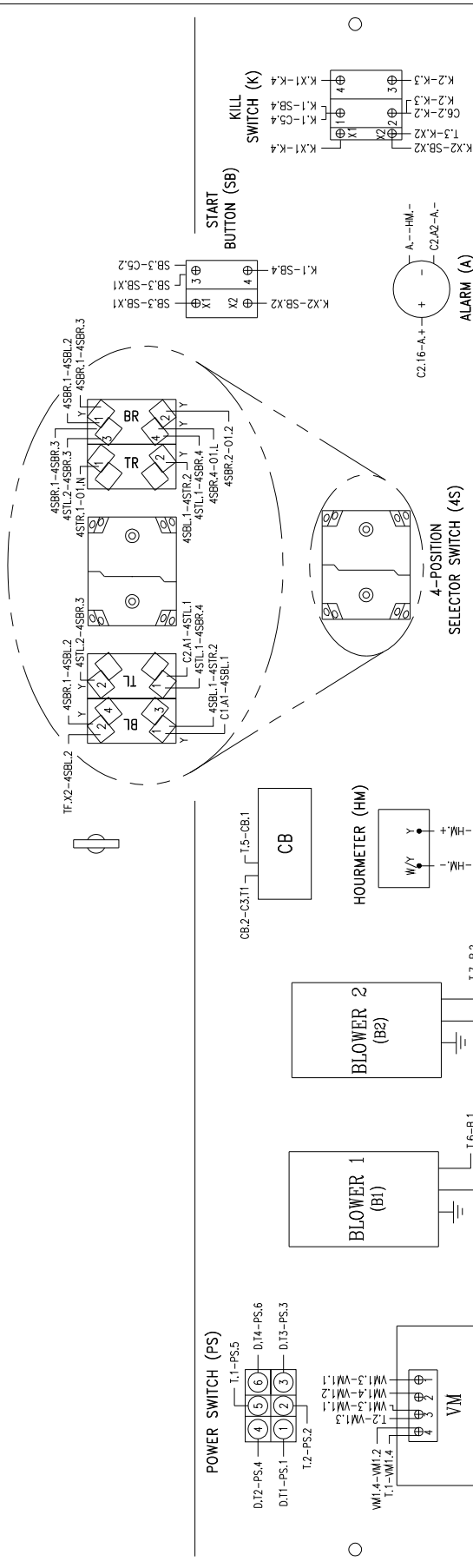
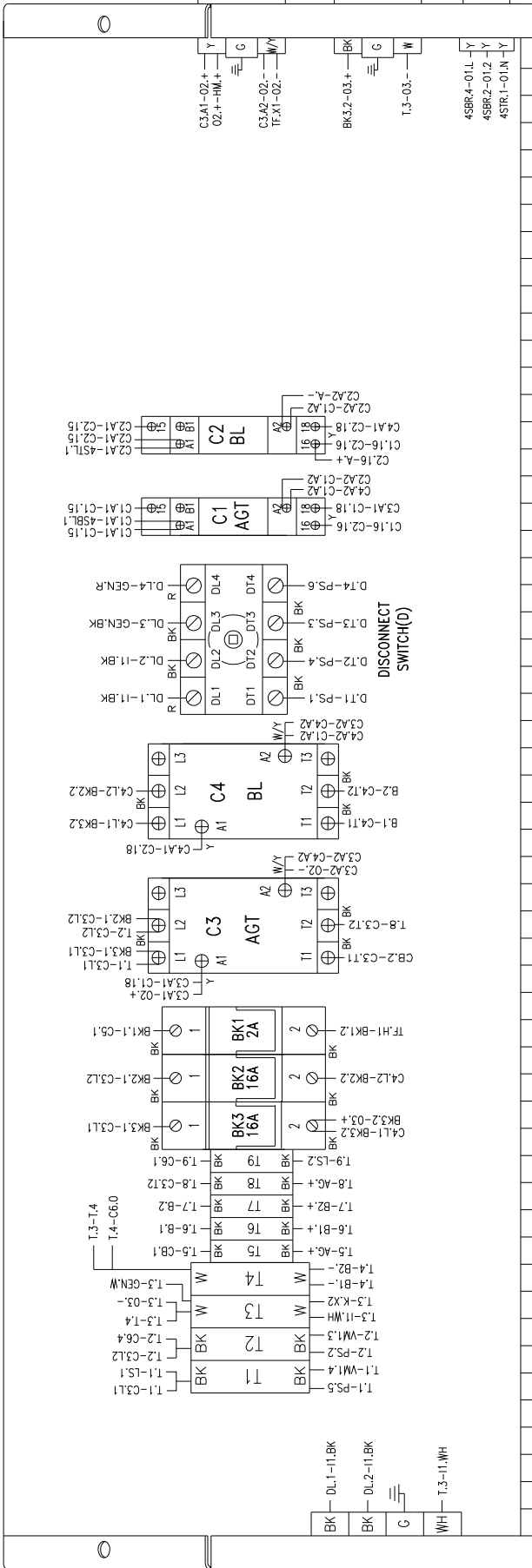
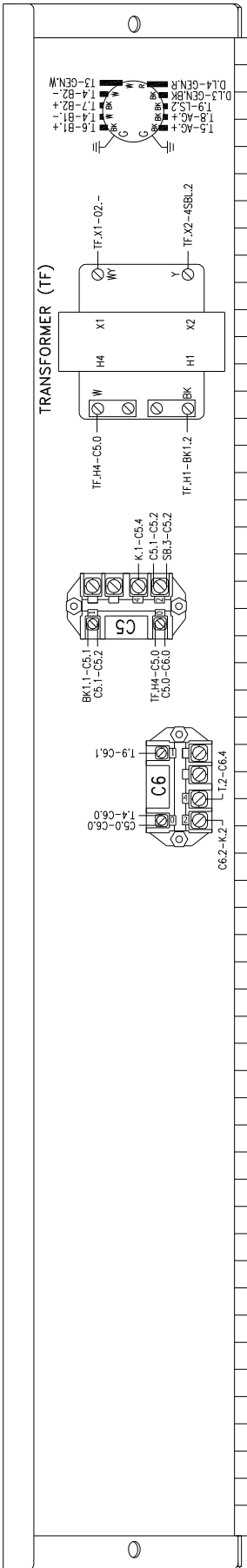
Periodically, disconnect machine from power source and check all electrical connections and components for broken or loose wires.

4-POSITION SELECTOR SWITCH(4S)			
CONTACT ACTION			
	BOTTOM LEFT	TOP	TOP RIGHT
REMOTE	1-1-2	1-1-2	1- 1 -2 3-1-4 1-1-2
OFF	1-1-2	1-1-2	1-1-2 3-1-4 1-1-2
BLOWER	1-1-2	1-1-2	1-1-2 3- 1 -4 1-1-2
BLOWER/ AGITATOR	1- 1 -2	1- 1 -2	1-1-2 3-1-4 1-1-2

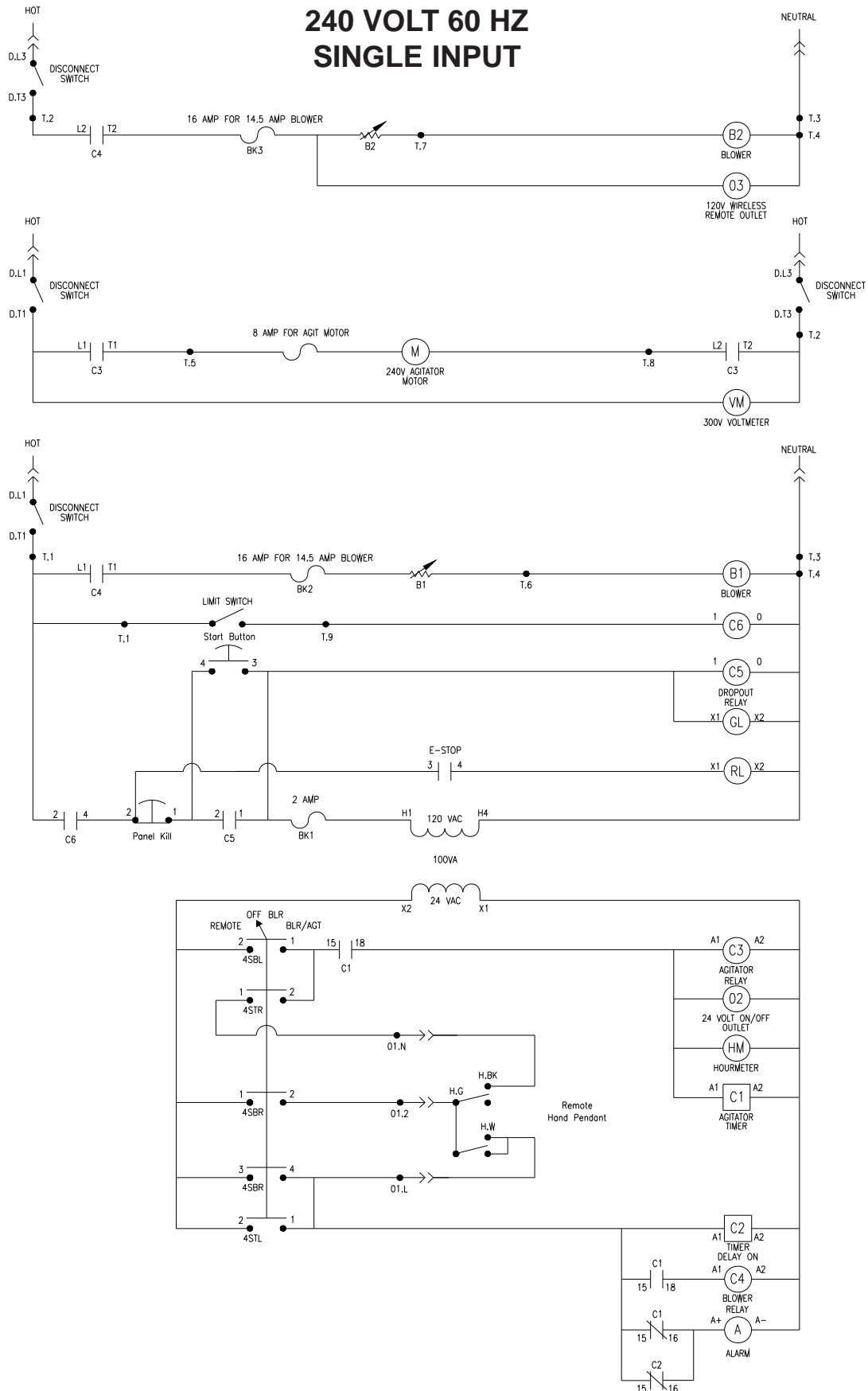


WIRE COLOR CODE

G	≡	= GREEN – Earth Ground
W		= WHITE – Common (120 volt)
BK		= BLACK – Hot (120 volt)
R		= RED – Hot (120 volt)
Y		= YELLOW – Hot (24 volt)
W/Y		= WHITE/YELLOW STRIPE – Common (24 volt)

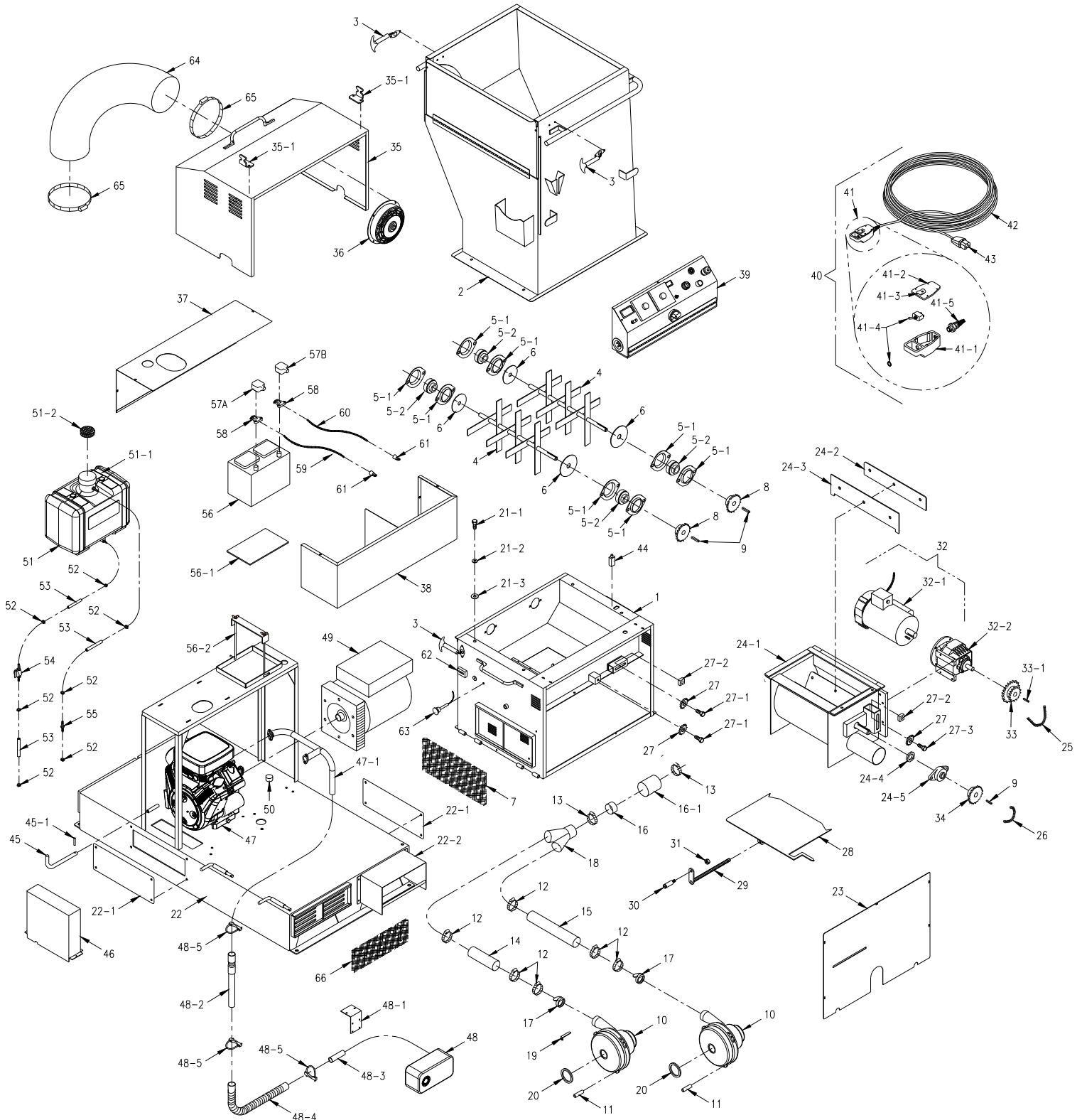


LADDER DIAGRAM



EXPLODED PARTS

#800-G Machine



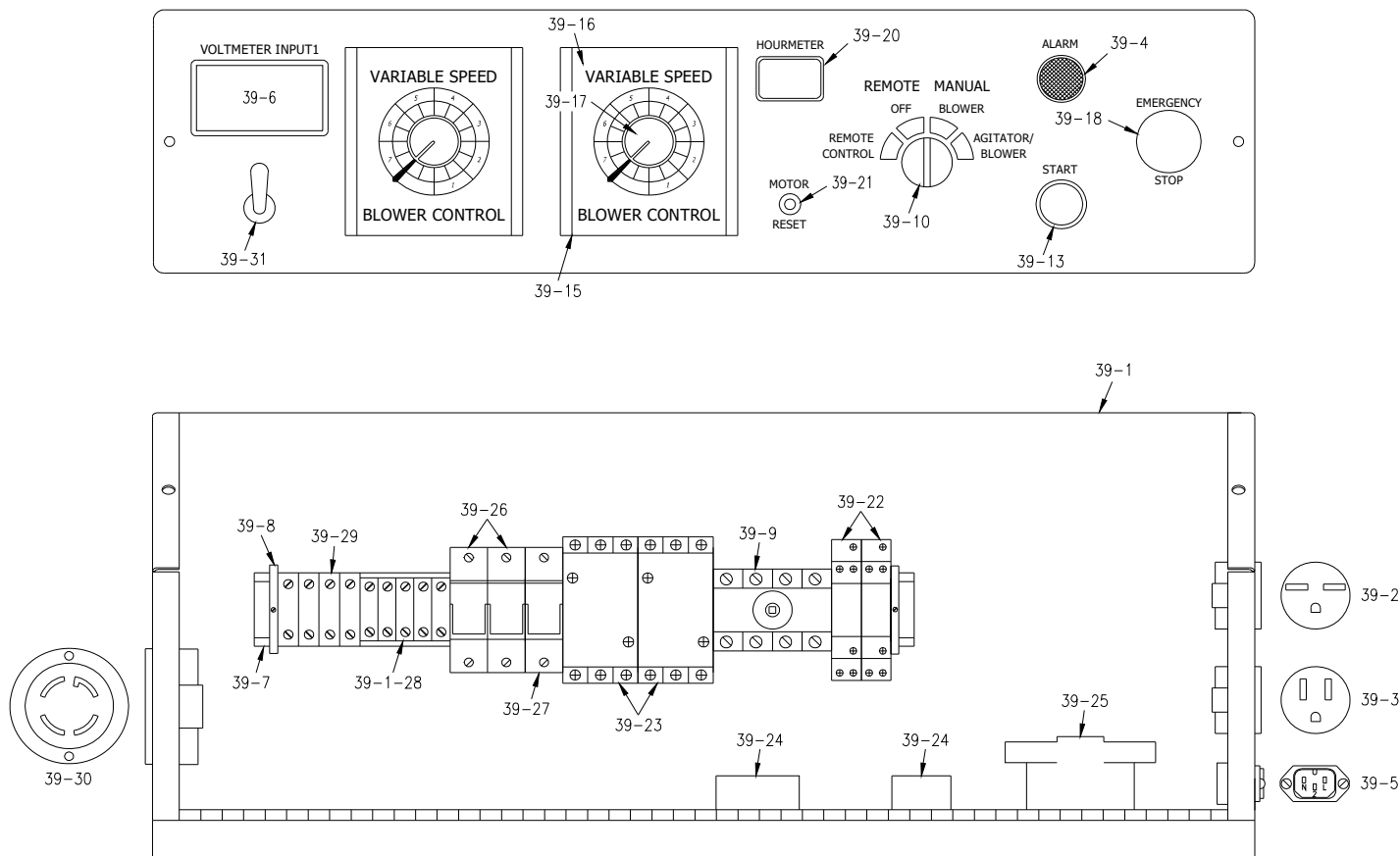
#800-G PARTS LIST

Item #	Part #	Description
1	800-2	Base
2	800-8-R1	Hopper
3	23-99	Latch, Pull (4)
4	575-7	Agitator (2)
5-1	565	Housing, Flange, 2-Bolt 1" Stamped (8)
5-2	563	Bearing, 1" Bore (4) Insert Only
6	564	Seal, Felt, 1" (4)
7	57562	Filter, Blower 16" x 7
8	S-40B15-B	#40 Sprocket, 15T x 1" (2)
9	561Z	Key, 1/4" x 1/4" x 1" (3)
10	408-G	Blower Motor, 14 Amp, 2-Stage (2)
11	409-F	Spacer, 2 3/16" Blower (6) (only 2 shown)
12	337	Clamp, 2" Hose (6)
13	339	Clamp, 2 1/2" Hose (2)
14	407	2" Hose, 12" long
15	406	2" Hose, 20" long
16	42572	2" Hose, 1" long
16-1	25-16	2 1/2" Hose, 3" long
17	CV101	Check Valve (2)
18	568	Check Valve Y-Tube
19	575-20	Support, Hose
20	113-AC	Gasket, 2", STD 3/16" (2)
21-1	FSB037	SB 5/16-18 x 7/8" HMS (4)
21-2	FW008	Lock Washer, 5/16" (4)
21-3	FW007	Flat Washer, 5/16" (4)
22	800-7-R1	Base, Complete
22-1	800-16	Cover, Access (2)
22-2	800-17	Guard, Muffler
23	575-15-P	Guard, Chain
24-1	800-1-R1	Airlock Chamber with Rotor
24-2	575-3	Plate, Top Airlock (6)
24-3	575-4	Seal, Airlock (6)
24-4	517-7	Seal, Felt, 1" (2)
24-5	8036-2	Bearing, 2 Bolt , 1" (2)
25	109019-14	Chain, #40 x 58". N.P.
26	42537	Chain, #40 x 27"
----	199	Master Link, #40 (2) (not shown)
----	189	Half Link, #40 (1) (not shown)
27	432	Sprocket, Idler, #40 17T x 5/8" (2)
27-1	FSB120	SB 5/8" x 3/4" Shoulder Bolt (2)
27-2	40052	Nut, 1" x 1/2" (1/2-13), Plated (2)
27-3	FSB092	SB 5/8" x 1" Shoulder Bolt
28	800-3	Slidegate
29	475-8	Crankrod
30	4507	Handle f/Crankrod
31	FN015	Lock Nut, 3/8"-16
32	575-22	Motor & Cord Assy, 1HP, 240V 60Hz (U.S.)
32-1	547	Motor, 1HP, 120V & 240V 60Hz
32-2	575GB	Gearbox, In-Line
33	475-20	#40, Sprocket, 15T x 24T x 1"

33-1	562Z	Key, 1/4" x 1/4" x 1 1/4"		
34	S-40B15-B	#40, Sprocket, 15T x 1" w/hub		
35	800-6	Engine Cover		
35-1	5200-142	Latch Holder (2)		
36	HZ-1001-8	Fan, Cooling, 8"		
37	800-10	Guard, Top, Fuel Tank & Battery		
38	800-9	Guard, Top, Fuel Tank & Battery		
39	ELU16-800G	Electrical Upgrade (240V, 60 Hz.) (single input, double 14 A blower)		
40	RC395-D	RC Cord Assy, 150', ELU, Style D		
41	RC395-DPDT	RC Service Kit (DPDT)		
41-1	RC395-1	Switch Housing		
41-2	RC395-2	Switch Housing Cover with belt clip		
41-3	1536-7	Belt Clip		
41-4	109066-9	Switch, Toggle, DPDT		
41-5	RC395-3	Strain Relief		
41-6	RC395-4	8-16 Plastic Screws (4) (Not Shown)		
42	18-3 SJ	Wire, 18-3 SJ (150')		
43	543-M-8	Plug, #509-1215		
44	LS100	Flush Mount, Limit Switch		
45	541	Pin, Hinge (4)		
45-1	FSB080	Pin, Roll (4)		
46	28-13-R1	Motor Intake Shroud		
47	800-12	Engine, 18Hp - - - - -	Replacement Parts for Engine (Not Shown)	
47-1	800-11	Manifold, Engine	4000-40	Oil Change Kit
48	28-34	Muffler	4000-40-1	Oil
48-1	28-27	Bracket, Mounting, Muffler	4000-40-2	Oil Filter
48-2	28-18	Exhaust Adapter		
48-3	28-28	Muffler Connector Tube		
48-4	4000-42	Pipe, Exhaust, 1 1/8" Flex, 24" Long		
48-5	4000-41	U Clamp, 1 1/4" Muffler (3)		
49	800-13	Generator, 9500W		
50	GV100-8-R1	Isolator, Vibration		
51	28-36	Tank, Fuel, 5 Gal		
51-1	RM-CT0048	Cable Ties, 48" (2)		
51-2	28-57	Filter, Fuel		
52	104	Clamp, Spring Pinch (7)		
53	RM-OTH202-EPA	1/4" Fuel Line		
54	BS-230	Fuel Shut Off, Inline		
55	23001	Barb, 1/4" x 3/16" Splicer, Plastic		
56	5200-75	Battery		
56-1	28-26	Battery Pad, Rubber		
56-2	5200-79-R	Bracket, Battery Hold Down		
57A	4000-50	Cover, Battery Terminal, Red		
57B	4000-51	Cover, Battery Terminal, Blk		
58	ST301-3	Connector, Battery Terminal (2)		
59	RM-OTH002-RD	Wire, 2 Ga Red, 10" long		
60	RM-OTH002-BK	Wire, 2 Ga Black, 18" Long		
61	ST301-4	Connector, Wire, Battery, Copper (2)		
62	GV100-11	Hour Meter		
63	4000-24	Choke Control		
64	H460	Hose, 8" HT, 24" Long		
65	4000-38	Clamp, Hose, 8" (2)		
66	800-18	Filter, Fresh Air (3)		

ELECTRICAL PARTS LIST

240 V.A.C. 60 Hz. SI



Electrical Exploded Parts List

Item#	Part#	Description	Item#	Part#	Description
39-1	575-13S-R1	Box, Electrical	39-16	420-1	Cover, Blower Control (2)
39-2	132-B	Receptacle, NEMA #6-15R	39-17	420-2	Knob, Blower Control (2)
39-3	1544	Receptacle, NEMA #5-15R	39-18	543-M-46	Switch, Kill, Red
39-4	543-M-38	Pre-Alarm System	39-19	8075-2	Contact Block 22mm Green (Kill Switch not shown)
39-5	543-M-2	Receptacle, RC, Plug, #509-1050	39-20	543-M-77	Hour Meter
39-6	543-M-84	Voltmeter, Digital 240V	39-21	433-H	Manual Reset, 8 Amp
39-7	ELU12-A	Dinrail, 1 3/8", 16"L	39-22	RELAY-10	Timer / Relay DPDT 12-240VAC 15A (2)
39-8	151080-49	Clamp, f/ 1 3/8" Din Rail (2)	39-23	ELU11-5	GE Contactor / Relay 25 Amp (2)
39-9	600-R-01	Switch, Disconnect Assy 4P	39-24	ELU10-10	Relay, Contactor/Relay, 120V Control (2)
39-10	543-M-22	Switch, 4-Position Selector	39-25	1530-D	Transformer, 4 Amp
39-11	543-M-15	Contact Block, Selector Switch (white) #KA-1 (not shown)	39-26	BRKR-16	Breaker, 16 Amp (2)
39-12	543-M-16	Contact Block, Selector Switch (red) #KA-3 (3) (not shown)	39-27	BRKR-2	Breaker, 2 Amp
39-13	543-M-14	Pushbutton On, Green	39-28	151080-61	Terminal Block, Small (5)
39-14	8075-2	Contact Block 22mm Green (Pushbutton not shown)	39-29	151080-62	Terminal Block, Large (4)
39-15	419-A	Blower Control (120V, 60Hz.) (2)	39-30	543-M-19	30 Amp Flange 240V TL
			39-31	800-14	Switch, Power

GLOSSARY

BRIDGING	Tendency of insulation to cling in the hopper forming an air pocket above the airlock. This hinders the normal feeding process of the machine.
CFM	(Cubic feet per minute). A measurement of volume or quantity of air flowing at a certain rate, or air moving capability, of a blower. It is the volume of air moved per minute. Higher volume provides increased coverage and velocity of insulation as it leaves the hose.
COVERAGE	Refers to the amount of insulation coverage, usually measured in square feet, according to the R-value desired. This information is given on the insulation package.
PSI	(Pounds of pressure per square inch). The force exerted on a surface by air/liquid. High-pressure blowers push the insulation through the hose. Higher pressure provides less hose plugging and increased compaction in side wall.
PRODUCTION RATE	Pounds of insulation blown per hour.
RPM	(Revolutions per minute). Speed at which the shaft of a rotating device (i.e. blower fan, agitator) is moving.
R-VALUE	Resistance value. A precise measurement of the insulation's resistance to heat transfer. The higher the resistance value, the slower the heat will transfer through the insulating material.
SETTLED DENSITY	The point at which the insulation will not continue to settle further. Any insulation blown will have a certain amount of progressive settling that occurs after a period of time. Following the insulation manufacturers recommendations for bag rate coverage will provide useful information to accommodate for settling.
SETTLING	Compression or compaction of insulation fibers caused by the weight of the material, vibration of structure, temperature, and humidity cycles.

SERVICE RECORD

DATE	MAINTENANCE PERFORMED	COMPONENTS REQUIRED



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