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Series 950

Meyer Insulation Blower

INSTALLATION, OPERATION & MAINTENANCE INSTRUCTIONS



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SECTION I SAFETY PRECAUTIONS

⚠ WARNING TO THE OWNER, AND INSTALLATION, OPERATION AND MAINTENANCE PERSONNEL

The safety of the operator and those people that may come into contact with the equipment is of great importance to Wm. W. Meyer & Sons, Inc. "Meyer". The decals, shields, guards and other protective features designed, furnished or recommended for this machine are there for your protection. BEFORE attempting to install, operate or perform maintenance on this Equipment READ carefully and UNDERSTAND all safety instructions contained in this set of **Instructions** in addition to all applicable government safety/health laws and regulations and generally recognized industry standards. The operation and maintenance of this equipment should be restricted to only those personnel trained in its use. Consult Factory for the availability of manuals in other languages.

Installation, Operation and Maintenance personnel should READ carefully and UNDERSTAND the sections of this **Instruction Manual** relevant to the work they are performing. The various precautions and recommendations detailed within this manual are not necessarily all inclusive. These instructions are intended to provide general safety and operational guidance relating to typical uses with which Meyer is familiar. Additional information may be provided that pertains to your specific piece of equipment upon request.

SAFETY FIRST!



DANGER

Indicates the presence of a hazardous situation that, if not avoided, WILL result in death or serious injury.



WARNING

Indicates the presence of a hazardous situation that, if not avoided, COULD result in death or serious injury.



CAUTION

Indicates the presence of a hazardous situation that, if not avoided, COULD result in minor or moderate injury.

NOTICE

Indicates information that is important, but is not related to a particular hazard.

1-1 GENERAL SAFETY INFORMATION

- Equipment is to be operated by trained qualified personnel only.
- Always read and follow the operating and safety procedures.
- Do not operate without all guards and safety equipment installed in the proper location and in working order.
- Do not disable any safety features. They are there for your protection.
- Always use qualified personnel when repairing or maintaining the equipment.
- Do not leave the equipment unattended while it is running.
- Do not wear loose clothing or jewelry when operating this equipment. Long hair should be confined by a hat or a hair net.
- Do not operate under the influence of alcohol or drugs.
- If a malfunction should occur, turn the machine off immediately and correct the problem, before restarting the machine.

 **WARNING** FOLLOW THESE SAFETY INSTRUCTIONS.

Emergency Shut Down Procedure

Push the E-Stop Button in and the red panel light will come on. This will stop the machine completely. Before continuing operation you must determine the reason for the E-Stop. Turn the engine ignition key to the OFF position and remove the key. Disconnect the fuel line and close the vent on the fuel tank. Disconnect the negative battery terminal and secure it using the lockout box. Follow your employer's Lockout\Tag out procedures. After the issue has been identified and corrected the machine may be put back into operation.

1-2 INSULATION MACHINE SAFETY

- Limit the operation only to those personnel trained in the proper use and operation of the machinery.
- Never operate the machine without proper ventilation.
- Keep all clothing and your body away from the rotating equipment.
- Obey all safety labels and instructions affixed to the machine. Do not point discharge hose at anything other than empty space, do not place hand(s) or any objects in material discharge stream.
- Never run the machine speed faster than the factory settings.
- Always wear proper protection when handling the battery. This includes eye protection proper gloves and proper clothing.
- Always wear proper personal protective equipment including but not limited to eye protection, hearing protection, respirator and gloves.
- Do not smoke while operating the machinery.
- Prior to performing any service or maintenance follow MACHINE SAFETY SHUTDOWN INSTRUCTIONS.

If there are any questions as to the safe operation of this equipment, please do not hesitate to contact us at 1-800-963-4458.

1-3 SAFETY LABELING



WARNING



Machine is operated by remote control and can start at any time.

Moving parts can crush and cut.

Follow Machine Safety Shutdown Instructions (near control panel) before removing guards, servicing, or performing maintenance or when reaching into any work zone to make adjustments, clear product and supplies, clean the equipment, or investigate a malfunction.



Follow all safety instructions to reduce the risk of serious injury or death from electrical shock, moving parts, thrown objects, or other hazards.



Intended use and use environment

This machine is suitable for Loose Fill insulation only. Any other use could cause serious injury, costly damage to the equipment and will void the warranty.

Operate only in well ventilated areas. Failure to do so could result in death due to carbon monoxide poisoning.

Questions regarding safety, operation, and application suitability should be directed to Wm. W. Meyer and Sons, Inc.



Qualifications and responsibilities

Always refer to applicable safety standards and local requirements when using this equipment.

Owner responsibilities:

- Provide operation and maintenance personnel with the Installation, Operation, and Maintenance Instructions (additional copies available from Wm. W. Meyer and Sons, Inc.)
- Make sure personnel are properly trained on equipment use and safety.

Operation and Maintenance Personnel responsibilities:

- Be properly qualified to operate or service the equipment:
 - Read and follow all instructions on the equipment labels and in the Installation, Operation, and Maintenance Instructions, including appropriate supporting vendor information.
 - Never operate or maintain this equipment under the influence of alcohol or drugs or conditions which reduce alertness or judgment.
- Always wear proper hearing, eye and breathing protection along with protective clothing.



Operating location

- An operator must always be close enough to the machine to promptly turn it off in case of emergency.
- Never blow insulation on or near sources of heat, flame, sparks or static discharge.



Keep yourself and others clear of machine and discharge

- Never operate the machine without all guards properly installed.
- Keep hands, feet, hair, loose clothing, jewelry and any foreign objects away from moving parts during operation.
- Never allow untrained personnel in the area near the equipment or the air/material discharge location.
- Never direct discharged materials at bystanders or put hands or objects in the discharge stream.



DO NOT REMOVE or disfigure this or any other instruction/safety label.

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420Z-262

WARNING



Hearing protection required



Eye protection required



Breathing protection required



Protective clothing required

420Z-204



DANGER

Engines produce **carbon monoxide** which is an odorless deadly poison. **DO NOT OPERATE** in an enclosed area.

420Z-234



WARNING

To reduce the risk of serious injury or death:

Equipment must be operated, serviced and maintained by trained personnel.

Read and understand all instructions before operating, servicing or maintaining this machine.

420Z-251



DANGER

Rotating parts inside.

Follow machine safety shutdown instructions before service or maintenance.

420Z-249



WARNING

**Hot surface.
Do NOT touch.**

420Z-233



WARNING

Do not reach into hopper.

Moving parts can crush and cut.

Follow machine safety shutdown instructions before service or maintenance.

420Z-260



WARNING

Unprotected material discharge can cause injury.

Always use hose when discharging material.

Never direct discharged materials at bystanders or put hands or objects in the discharge stream.

420Z-217



WARNING

Moving parts can crush and cut.

Never operate with guard removed.

Follow machine safety shutdown instructions before service or maintenance.

420Z-253

WARNING



FIRE Hazard

Disconnect fuel tank when not in use.
Secure tank when transporting machine.
Do not store fuel tank in enclosed space.

420Z-288

MACHINE SHUTDOWN INSTRUCTIONS

1. Close the slide gate.
2. Set the Remote Control Switch to Air to clear the hose of material. When the hose is clear, switch the Remote Control to off and disconnect it from the control panel.
3. Reduce engine speed to 500 RPM. Let it idle for a couple of minutes to cool down.
4. Turn the engine ignition key to the OFF position. Remove the key.

420Z-250

MACHINE START UP INSTRUCTIONS

1. Read and understand the Operation and Maintenance manual before starting the machine.
2. Doors to the truck/trailer must be open and no fuel vapor present.
3. Close the slide gate.
4. Set the Remote Control Switch to OFF.
5. Attach the fuel line and open the vent on the fuel tank.
6. Insert the KEY into the POWER switch.
7. The THROTTLE switch must be set to IDLE and the SPEED CONTROL to "10".
8. Pull out the CHOKE cable, turn the POWER switch to START. Once the engine starts; release the switch and push in the CHOKE.
9. Let the engine warm up for few minutes.
10. When the engine is warm, turn the THROTTLE switch to RUN and control the machine with the SPEED control 0 - 10.
11. Open the slide gate and set it based on your blowing material.



WARNING

Open all doors on the truck body/trailer and wait 10 minutes before starting engine.

This ventilates fuel vapors and reduces the risk of fire and explosions.

DO NOT start engine if fuel vapors are present.

420Z-258

MACHINE SAFETY SHUTDOWN INSTRUCTIONS

Before service, maintenance, or reaching into the machine for any reason follow these steps to ensure the machine cannot be started.

1. Follow the Machine Shutdown Instructions.
2. Disconnect the fuel tank and close the vent on the tank.
3. Disconnect the negative battery terminal and secure it using the lockout box.
4. Follow your employer's Lockout/Tagout procedures.

420Z-256



SECTION II APPLICATION - INTENDED USE OF EQUIPMENT

The **MEYER Series 950 INSULATION BLOWING MACHINE** is designed to process and blow all of the currently available loose fill fiberglass and cellulose insulations on the market today.

NOTICE This equipment must be used only for the purpose for which it was intended. Any other use could cause bodily injury to the operator, costly damage to the equipment and void the warranty.



SECTION III RECEIVING AND UNCRATING

3.1 RECEIVING YOUR MACHINE

Immediately check the condition of your new machine as received. The unit was shipped in perfect condition and should arrive the same way. Ownership of the goods was transferred to the carrier as soon as it left our dock. Your order may have shipped on multiple skids, verify your count equals that of the Bill Of Lading. If there are any missing items or visible problems, mark them on the Bill Of Lading that the carrier has and call their office immediately before the driver leaves your premises. Meyer cannot file a claim on your behalf; however, please let us know by phone and writing about any problems so that we can assist you with immediate replacement parts or information.

3-2 UNCRATING YOUR MACHINE

1. Carefully remove all shipping materials from the machine.
2. Check that all parts are included as stated on the Packing List that came with your shipment.
3. If anything is missing for any reason, please contact Wm. W. Meyer & Sons immediately.
4. If the equipment or goods are discovered to be damaged in a shipment at a later date, contact the carrier and Wm. W. Meyer & Sons immediately.



SECTION IV SPECIFICATIONS

EQUIPMENT SPECIFICATIONS

WIDTH: 55"
DEPTH: 37"
HEIGHT: 72"
WEIGHT: APPROX. 1,200 LBS.

MACHINE COMPONENTS

- Feeder Assembly
- Hopper Assembly
- Control Panel/Electrical
- Engine
- Dual Clutch Drivetrain

 **WARNING** Two operators needed for safe operation.

- One hose operator
- One machine operator/loader

Machine Installation

Tools and material needed for installation:

- Drill and drill bits
 - 3/8" bolts or lag screws
 - Exhaust pipe fittings from the machine to underneath the truck
 - Fork lift or other safe means to lift the machine
 - Pry bar(s)
 - Screw driver, socket and ratchet, saw (hole or saber)
1. Move the machine into position noting that you will need to have access to the rear of the machine. With the machine in position; mark the truck floor where the engine exhaust will go through the floor and mark the base's mounting hole locations.
 2. The machine can be left in place or moved to provide better access to the areas that need to be drilled/cut. Using an 1/8" bit, drill pilot holes to determine if there is anything under the truck floor that would interfere with the mounting fasteners or the engine exhaust pipe. If there is; move the holes accordingly.
 3. Cut a 3" hole in the floor for the exhaust pipe. Install the flashing (included), center it in the hole and tack it down.
 4. Drill holes for the machine mounting bolts. The size depends on what type and size of fasteners you are using. Secure the machine to the truck floor.

 **WARNING** The engine and engine exhaust piping could be extremely hot and could cause burns. In addition; if flammable material comes in contact with these surfaces it could ignite. Due to the variability of installations Meyer cannot provide a guard for the engine exhaust piping. The installer of the equipment must take the necessary steps to guard this surface from contact.

 **WARNING** The engine exhaust pipe outlet must be routed away from the blower intake underneath the truck/trailer. Failure to do so could result in carbon monoxide being pumped into the building being insulated. This would be a life threatening situation for both the installer and the building occupants.

5. Install the exhaust pipe and fittings (not included). Be sure to securely attach both ends of the exhaust extension. Exhaust pipe outlet must be directed away from blower inlet and away from any fuel tanks located beneath the truck. Thread in the blower inlet pipe and screen (included) up through the rubber flashing.



SECTION V OPERATING INSTRUCTIONS

⚠ WARNING Before starting the machine check that no foreign material is in the hopper, that the blowing hose is connected and the hose operator is in position. Ensure that the only people around the machine are those involved with its operation.

⚠ WARNING Explosive fuel can cause fires. Do not overfill the fuel tank. Allow room for expansion of the fuel. Fill the tank away from the engine and avoid spills. The fuel tank must be in contact with the ground before and during filling. Do not let the fuel line come in contact with the exhaust system. Fuel for this machine is highly flammable; failure to follow these precautions could lead to a fire and serious injury or death.

⚠ DANGER Engine exhaust contains carbon monoxide, a poisonous gas that will kill you in minutes. You CANNOT see it, smell it, or taste it. Even if you do not smell exhaust fumes, you could still be exposed to carbon monoxide gas. If you start to feel sick, dizzy, or weak while using this machine, shut it off and get to fresh air immediately. Seek medical attention immediately. You may have carbon monoxide poisoning.

⚠ WARNING The surfaces of the engine and exhaust can be extremely hot. Do not touch, allow to cool before servicing.

⚠ WARNING Open all doors on the truck body/trailer and wait 10 minutes before starting engine. This ventilates fuel vapors and reduces the risk of fires and explosions.

PRE-START CHECKS

1. The doors to the truck/trailer must be open so that the operator and machine have adequate ventilation.
2. The blowing hose must be attached and the operator in position.
3. Check that the switch on the Remote Control Cord is in the OFF position. Connect the cord to the control panel. Note: Starting the machine with the switch set to AIR or AIR/MATERIAL will overload the clutch and the engine.

⚠ WARNING Do not operate the machine with any guards removed. The drive components must be guarded before starting your machine and must remain guarded during operation. Failure to do so could lead to serious injury or death.

⚠ WARNING Do not reach into the hopper. There are moving parts in the hopper that can crush and cut. Follow the machine safety shutdown instructions before service or maintenance.

MACHINE START UP INSTRUCTIONS

1. Read and understand the Operation and Maintenance manual before starting the machine.
2. Doors to the truck/trailer must be open and no fuel vapor present.
3. Close the slide gate.
4. Set the Remote Control Switch to OFF.
5. Attach the fuel line and open the vent on the fuel tank.
6. Insert the KEY into the POWER switch.
7. The THROTTLE switch must be set to IDLE and the SPEED CONTROL to "10".
8. Pull out the CHOKE cable; turn the POWER switch to START. Once the engine starts; release the switch and push in the CHOKE.
9. Let the engine warm up for few minutes.
10. When the engine is warm, turn the THROTTLE switch to RUN and control the machine with the SPEED control 0-10.
11. Open the slide gate and set it based on your blowing material.

MACHINE SHUTDOWN INSTRUCTIONS

1. Close the slide gate.
2. Set the Remote Control Switch to Air to clear the hose of material. When the hose is clear of material, switch the Remote Control to OFF and disconnect it from the control panel.
3. Turn the THROTTLE switch to IDLE. Let it run at idle to cool down before shutting down.
4. Turn the POWER switch to OFF. Remove the key.

MACHINE SAFETY SHUTDOWN INSTRUCTIONS

1. Follow the MACHINE SHUTDOWN INSTRUCTIONS.
2. Disconnect the fuel tank and close the vent on the tank.
3. Disconnect the negative battery terminal and secure it using the lockout box.
4. Follow your employer's Lockout/Tagout procedures.

 **WARNING** Fire hazard. Whenever the machine is not in use or is being transported, disconnect the fuel tank from the engine and close the vent on the fuel tank. Secure the tank before transporting the machine.



SECTION VI MAINTENANCE

 **WARNING** Before performing any service or maintenance ensure that the machine cannot be started. Follow machine safety shutdown instructions before service or maintenance. Failure to do so could lead to serious injury or death.

For engine service or maintenance see the engine Operator's Manual.

Your Meyer Series 950 Insulation Blowing Machine is designed to be used with minimal maintenance for all its components. The following is only a guide; experience is the best guide for the right maintenance schedule for your machine.

| DESCRIPTION | EACH SHIFT | 20 HOURS | 100 HOURS | 250 HOURS | 500 HOURS |
|---------------------------------|------------|----------|-----------|-----------|-----------|
| INSPECT ALL DRIVES | X | | | | |
| CHECK GUARDS | X | | | | |
| DRIVE ALIGNMENT & TENSION | | X | | | |
| CHECK ENGINE EXHAUST PIPE | X | | | | |
| GREASE BLOWER BEARINGS | | | | | X |
| GREASE HOPPER BEARINGS | | | | | X |
| CHANGE ENGINE OIL FILTER | | | X | | |
| CHANGE BLOWER OIL | | | | | X |
| CHANGE GEAR BOX OIL | | | | | X |
| CLEAN INLET SCREEN (ENG & BLWR) | X | | | | |
| CHANGE SEALSTRIPS | | | | | X |
| OIL DRIVE CHAINS | | | | | X |
| CHECK ALL DRIVE SET SCREWS | | | | | X |
| ENGINE AIR FILTER | | | X | | |

| | |
|-----------------|--|
| ALL BEARINGS | NLGI grade #2 LITHIUM GREASE |
| DRIVE CHAIN | 30W NON DETERGENT MOTOR OIL |
| BLOWER | OIL: AEON NLGI grade #2 LITHIUM GREASE |
| ENGINE | SAE 10W30 MOTOR OIL |
| REDUCER GEARBOX | AGMA #8 GEAR OIL |



WARNING Removing guards exposes personnel to moving parts. Prior to removing any guards the machine must be prevented from starting and the parts from moving. Remove the key from the engine ignition, disconnect the fuel line, and disconnect the negative battery terminal and secure it using the lockout box. Follow your employer's Lockout/Tagout procedures.

In order to perform any service or maintenance on the drive train the drive guards must be removed.

1. Follow the MACHINE SAFETY SHUTDOWN INSTRUCTIONS.
2. Remove the guards to gain access to the inside of the machine.
3. Replace the guards after completing the service or maintenance and before operation.

When replacing or tightening drive belts or chain it is imperative that the drive components – sprockets or sheaves are in line with each other. Use a straight edge of sufficient length to make the determination.

Replace the drive belts if there are signs of cracking or wear. If belts are slipping or squealing during operation adjust them by moving the drive/driven components in the appropriate direction to restore proper tension.

Check the tension on the chain drives when they are lubricated. On the hopper chain drives if there is more than 3/4" deflection or play measured equidistant between the sprockets, the chain needs to be replaced.



SECTION VII TROUBLESHOOTING



WARNING The machine must be shutdown according to the MACHINE SAFETY SHUTDOWN INSTRUCTIONS before troubleshooting machine issues. Do not reach into the hopper or remove any guards without following these instructions. Failure to do so could lead to serious injury or death.

If the machine is not running properly check for the basic causes first; closed slide gate, broken chain, machine speed etc.

Machine is running but no material is discharging from hose.

- Slide gate is in the closed position.
- Clutch is in **OFF** position.
- Feeder shear pin is broken.
- Remote Control wire or panel connector is broken or damaged.
- Remote Control wire board connections loose.
- Faulty clutch relay on circuit board or faulty circuit board.
- Drive belt is slipping or broken.
- Feeder chain is off the sprocket or broken.
- Hopper chains are off their sprockets or broken.
- Material jam in machine or hose.
- Hose is bent or closed off from machine to attic.
- Worn out sealstrips in feeder causing air pressure blowback.

Low material output.

- Check slide gate position.
- Partial obstruction in hopper or hose.
- Hose is kinked or torn.
- Clutch is slipping.
- Machine speed is too low.
- Blower inlet is clogged.
- Blower outlet tubing to feeder has slipped off its connection.
- Bleed valve assembly is in the open position.
- Operator is overfilling hopper resulting in material top pressure which can lead to material bridging above the feed reel.
- Material is sticking to agitator or feed reel from forcing too much material into the hopper, this practice causes less material to be conveyed through the system due to build up on surfaces.

Machine or engine seems sluggish while blowing material.

- Engine is overheating due to low RPM.
- Engine is overheating due to cooling shrouds clogged with insulation.
- Material is wet inside hopper.
- Too much material forced into hopper.

- Clutch slipping during operation.
- Too many hose reductions.
- Obstruction at blower inlet.
- Drive belts may be slipping.
- Gear Box oil is low or empty.
- Loose drive components.

Engine runs but sometimes misfires while blowing material.

- Poor fuel in tank.
- Dirt or water in the fuel system.
- Spark plug wire is loose.
- Oil sentry wires connectors are loose.
- Loose wires or connections at circuit board behind control panel.
- Faulty circuit board.
- Faulty engine ignition module.
- Engine overheating.

Unusual sounds coming from machine during operation.

- High pitched squeal near perforated guards - Check for loose drive belts.
- Metal scraping sound when shutting down machine - Clutch plate is rubbing.
- Banging sound from hopper area – Loose object has fallen into hopper.
- Constant air leaking sound while machine is in operation – Bleed valve is open or loose tubing between the blower and feeder.