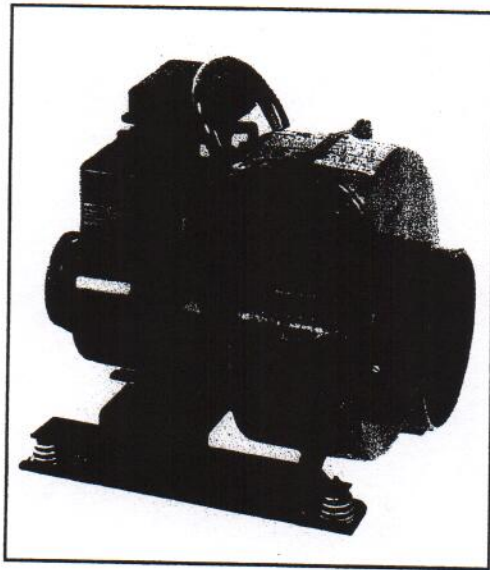


**GP8  
BLOWER**



# **OPERATOR'S INSTRUCTION & PARTS MANUAL**



## **General<sup>®</sup>**

EQUIPMENT COMPANY

620 ALEXANDER DRIVE SW P.O. BOX 334

OWATONNA, MN 55060

1-800-533-0524 In Minn. 507-451-5510

Catalog GOM-1020872

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## Notice to Operators

**IF YOU CAN NOT READ OR DO NOT FULLY UNDERSTAND THE CONTENTS OF THIS MANUAL, PLEASE CONTACT THE FACTORY FOR PROPER ASSISTANCE BEFORE ATTEMPTING TO OPERATE THIS PRODUCT.**

**SI TU NO PUEDES LE'ER O NO COMPRENDES EL CONTENIDO DE ESTE MANUAL FAVOR DE PONERSE EN CONTACTO CON LA FABRICA PARA ASISTENCIA-A PROPIA ANTES DE INTENTAR PARA OPERAR ESTE PRODUCTO.**

**SOLLTEN SIE DIESE GEBRAUCHSANWEISUNG NICHT LESEN KOENNEN ODER ES NICHT VOLLKOMMEN VERSTEHEN, WENDEN SIE SICH BITTE AN DEN HERSTELLER FUER RICHTIGE HILFE EHE SIE VERSUCHEN DIESES PRODUKT ZU OPERIEREN.**

**SI VOUS NE LISEZ OU NE COMPRENDRE ENTIEREMENT LES MATIERES DE CE MANUAL, S'IL VOUS PLAIT, CONTACTEZ L'USINE POUR L'ASSISTANCE APPROPRIEE AVANT D'UTILISER LE PRODUIT.**

 **CAUTION**

 **DANGER**

These safety alert symbols identify important safety messages in this manual. When you see these symbols, be alert to the possibility of personal injury and carefully read the message that follows.

Do not allow anyone to operate the Blower without first reading this Operator's Manual and becoming familiar with its operation. The manufacturer of this Blower has gone to great extremes to provide the owner(s) and/or operator(s) with the finest equipment available for its intended job function of providing air for portable ventilation purposes. Yet, the possibility exists that the Blower can be utilized in and/or subjected to job applications not perceived and/or anticipated by the manufacturer. Such misuse and/or misapplication of the Blower can lead to the possibility of serious damage, injury or even death. It is the responsibility of the owner(s) and/or operator(s) to determine that the Blower is being utilized and/or operated within the scope of its intended job function. It is the responsibility of the owner(s) and/or operator(s) to establish, monitor and constantly upgrade all safety programs and/or practices utilized in and for the operation of the Blower. The purpose of such programs is to provide for owner(s) and/or operator(s) safety. Operators must be instructed to recognize and avoid unsafe conditions associated with their work (29 CFR 1926.21(b)(2)). It is the responsibility of the owner(s) and/or operator(s) to determine that no modifications and/or alterations have been made to the Blower. Modifications and/or alterations can lead to the possibility of serious damage, injury or even death. It is the responsibility of the owner(s) and/or operator(s) to make this Operator's Manual available for consultation during all phases of operation. Refer to OSHA 2207 which contains all OSHA job safety and health rules and regulations (1926 and 1910) covering construction.

Record the Blower and engine (if so equipped) serial numbers in the spaces provided below. The Blower serial number is located on the cast aluminum blower housing.

\_\_\_\_\_ Model Number

\_\_\_\_\_ Engine Serial Number

\_\_\_\_\_ Serial Number

\_\_\_\_\_ Date of Purchase

Specifications and design are subject to change without notice or obligation. All specifications are general in nature and are not intended for specific application purposes. General Equipment Company reserves the right to make changes in design, engineering or specifications and to add improvements or discontinue manufacture at any time without notice or obligation. General Equipment Company and its agents accept no responsibility for variations which may be evident in actual products, specifications, pictures and descriptions contained in this publication.

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## Safety Precautions

# DANGER

THE BLOWER IS DESIGNED FOR PORTABLE AIR VENTILATION PURPOSES ONLY. THE BLOWER IS NOT DESIGNED FOR TRANSPORTING SEMI-SOLID OR SOLID MATERIALS. THE GASOLINE MOTOR AND BLOWER WHEEL/FAN HOUSING ARE NOT DESIGNED FOR OPERATION IN AN EXPLOSIVE OR FLAMMABLE ATMOSPHERE. OPERATION OF THE BLOWER IN AN EXPLOSIVE OR FLAMMABLE ATMOSPHERE WILL RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR EVEN DEATH. INCORRECT USE OF THE BLOWER CAN RESULT IN CARBON MONOXIDE FUMES CAUSING SERIOUS INJURY OR EVEN DEATH. ALWAYS OPERATE THE BLOWER IN COMPLIANCE WITH CURRENT OSHA REGULATIONS.

# DANGER

INCORRECT USE OF THE BLOWER CAN RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR EVEN DEATH. TO REDUCE THIS POSSIBILITY, GIVE COMPLETE AND UNDIVIDED ATTENTION TO THE JOB AT HAND AND FOLLOW THESE SAFETY PRECAUTIONS.

### PREPARATION

1) This Blower is a specialized type of powered equipment, designed for a specific job function and requires adequate and thorough instruction BEFORE it is operated. Each operator must receive adequate, professional instruction regarding the proper operation of this Blower BEFORE being allowed to operate it. Refer to OSHA 2207 which contains all OSHA job safety and health rules and regulations (1926 and 1910) covering construction. BEFORE attempting to utilize this Blower, read this Operator's Manual and the material supplied by the engine manufacturer to familiarize each operator with its correct operating procedures. When you are going to utilize

this Blower-DO IT RIGHT-avoid the urge not to take the time to read this Operator's Manual BEFORE utilizing the Blower. DO NOT OPERATE THIS BLOWER UNTIL EACH OPERATOR COMPLETELY COMPREHENDS THE CONTENTS OF THIS MANUAL.

2) Develop a comprehensive program for the safe operation of the Blower by its owner(s) and/or operator(s). Such a program will include, but is not limited to: instructional requirements for operation, applicable OSHA requirements, local laws and regulations, job site safety and a Blower maintenance program. Constantly examine and upgrade this program to guarantee owner(s) and/or operator(s) safety. Each operator must be fully instructed regarding the specifics of this safety program. Refer to (29 CFR 1926.21 (b) (2)).

3) Determine that the Blower is in its original, factory configuration and has not been modified in any manner. Many modifications can result in potentially dangerous configurations that can lead to property damage and/or personal injury. If there are any questions about possible modifications made to the Blower, contact the Factory for specific information BEFORE utilization.

4) Minors should never be allowed to operate the Blower. Bystanders, especially children and animals should not be allowed in the area where a Blower is in use.

5) Operators must be in adequate physical condition, mental health and not under the influence of any substance (drugs, alcohol, etc.) which might impair vision, dexterity or judgement. Working with the Blower can be strenuous. If you have any condition that might be aggravated by strenuous work, check with your doctor before operating the Blower. Guard against the possibility of back related injuries. Always lift the Blower with leg muscles and not with the back.

6) Clothing must be sturdy and snug fitting, but allow complete freedom of movement. Never wear loose fitting jackets, scarves, neckties, jewelry, flared or cuffed pants or anything that could become caught on controls or moving parts. Wear long pants to protect your legs. Protect your hands with heavy duty, nonslip gloves to improve your grip. Good footing is most important when

transporting the Blower. Wear sturdy boots with nonslip soles. Steel-toed safety boots are highly recommended. Never wear tennis shoes or other similar type shoes which afford little or no protection. Wear an approved safety hard hat to protect the operator'(s)' head(s) where there is a danger of head injuries. Wear sound barriers (ear plugs or ear muffers) to protect your hearing. Continuous and regular operators should have their hearing checked regularly.

7) Visually inspect the Blower for damaged or worn parts. Check for loose and/or broken parts. Determine that all safety devices are operative and information decals are readable. Check to see that the Blower and all related accessories are in good mechanical condition BEFORE utilization.

8) In selecting a suitable operational site, determine that there is no obstruction (eg, wall or ceiling) that will come into contact with the operator's arm and/or hand when starting the engine. A small or confined work area for starting the engine can result in personal injury.

9) Know how the controls operate. Know how to stop the Blower quickly in an emergency.

## OPERATION

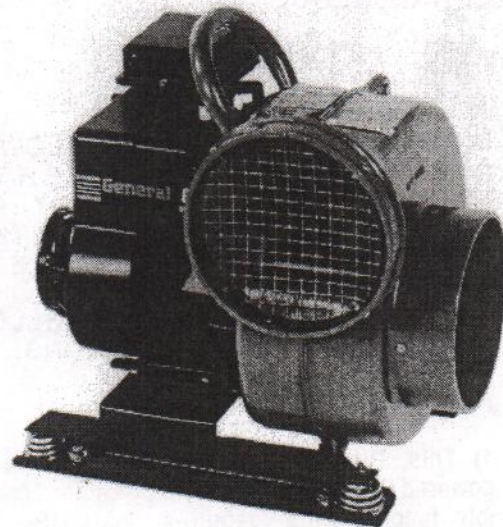
1) Give complete and undivided attention to the job at hand. Help prevent the cause of an accident. Plan to take work breaks as required to help insure mental and physical alertness.

2) Gasoline is an extremely flammable fuel. Use extreme caution when handling gasoline or mixing fuel. Always utilize UL® approved containers for the storage and/or transportation of fuel. Do not smoke or bring any fire or flame near the fuel. Always shut off the engine and allow it to cool before refueling. Never remove the gasoline tank filler cap while the engine is running. Never operate an engine without a gasoline tank filler cap. Select bare ground for refueling and move at least 10 feet from the fueling spot before starting the engine. Wipe off any spilled fuel before starting the engine and check for leakage. If a fuel or oil leak is found, do not start or run the engine until the leak is fixed and the spillage has been wiped away. Take care not to get fuel or oil on your

clothing. If this happens, change your clothing immediately. Before operating the Blower, refer to the SPECIFICATIONS section of this manual for more detailed information regarding gasoline and lubrication requirements.

3) Certain jobsite locations are classified as being hazardous because the atmosphere does or may contain gas, vapor or dust in explosive quantities. The National Electric Code divides these locations into Classes and Groups according to the type of explosive agent which maybe present. For specific information, consult the National Electric Code, Section 500. The gasoline engine and blower wheel/fan housing are not designed for operation in an explosive and/or flammable atmosphere of any Class or Group. Operation of the Blower in an explosive or flammable atmosphere will result in personal injury or even death.

4) Place the Blower on secure footing to prevent it from shifting while in use. Such movement can cause injury to the operator(s) or damage to the Blower itself.



5) Do not operate the Blower without the inlet and outlet screens properly secured and in place. Never replace the screens with other than factory supplied, replacement units. The screen grid must comply with current OSHA regulations regarding protective enclosures to prevent personal injury to the operator(s). Determine that their structural integrity will allow them to serve their protective function. Keep both screens

free from obstructions and gathered debris to maximize air flow delivery.

6) Do not stand directly in front of and/or face the Blower outlet. Personal injury can result from being struck by debris thrown from the Blower wheel at a relatively high velocity.

7) Contact with a hot engine muffler can cause property damage and/or personal injury. Remain clear of a hot, engine muffler. Do not overspeed the engine by altering the governor setting or by disconnecting the engine governor in an attempt to obtain a higher speed. Serious damage to the engine and/or personal injury can result.

8) When utilizing the Blower to force air into a closed work area, a collapsible, reinforced type duct of at least 10 ft (3 m) in length must be coupled to the Blower inlet to *minimize* the possibility that the air flow delivery is not contaminated by engine exhaust fumes. Place the inlet end of the duct into the relative wind as far as possible from the Blower.

#### **MAINTENANCE, REPAIR AND STORAGE**

1) Use only genuine, approved replacement parts for maintenance and repair. Use of parts manufactured by others can result in property damage and/or personal injury.

2) Follow the SERVICE instructions as outlined in the appropriate section of the Operator's Manual.

3) Always stop the engine and disconnect the spark plug wire BEFORE checking or working on the Blower.

4) Always properly maintain the Blower. Frequently check all fasteners and individual parts. Built in safety features are effective only if they are maintained in good working condition. Keep the Blower clean and properly serviced. Replace any questionable part or assembly with a genuine, approved, replacement part. Do not attempt any maintenance or repair work not described in the Operator's Manual. Have such work performed at your dealer's servicing shop.

5) A worn or damaged engine muffler is a fire hazard and may cause loss of hearing. Check to see that the muffler is in good condition. If the muffler is equipped with a

spark arresting device, determine that it is in proper working condition at regular service intervals. Replace the spark arresting device with an approved replacement if there is any question of its integrity. It is the responsibility of the owner(s) and/or operator(s) to provide for and properly maintain a USDA approved, spark arresting muffler in an area where specified by law. Check with appropriate governing agencies for more specific information. The Blower must not be operated if the muffler is faulty or has been removed. Contact with a hot muffler can cause property damage and/or personal injury. Remain clear of a hot, engine muffler.

6) Consult the material supplied by the engine manufacturer for specific information relative to proper engine oil and gasoline recommendations for the engine utilized on the Blower.

7) Consult the material supplied by the engine manufacturer for specific information relative to long term storage of the engine utilized on the Blower.

## Assembly

Open the shipping carton immediately upon receipt. Visually inspect the contents of the carton for freight damage and/or missing parts. If shipping damage is evident, contact the delivering carrier to arrange for an inspection of the damage by their claims representative. If missing parts are detected, notify your dealer who will assist you in obtaining them.

Included in the shipment should be the following: 1 each, Blower  
1 each, lifting handle

### INSTALLING THE LIFTING HANDLE

Tools Required: 1 each, 1/2 inch wrench

1) Install the lifting handle to the studs provided on the blower housing. Secure tight with the provided lock washers and hexagon nuts.



## DANGER

FAILURE TO PROPERLY INSTALL THE LIFTING HANDLE FASTENERS MAY RESULT IN LOOSE FASTENERS THAT CAN BECOME LODGED IN THE BLOWER WHEEL AND EXIT THE OUTLET AT HIGH SPEED. THE RESULT CAN CAUSE PROPERTY DAMAGE AND/OR PERSONAL INJURY.

2) Check all fasteners for security. Consult a fastener torque chart for the proper torque value if any fastener is found to require retorquing.

## Before Starting the Engine

### FILLING THE ENGINE CRANKCASE WITH OIL

Tools Required: Small, clean funnel

1) Position the Blower on a suitable work bench with the unit level with the ground.

2) Wipe any dust or dirt from the engine crankcase filler plug area. The filler plug is located on the engine crankcase on the end opposite to the gasoline tank. Remove the filler plug.

3) Using the funnel, pour 1-1/4 pints (0.6 liter) of high grade motor oil into the engine crankcase. DO NOT OVERFILL. Refer to the operating and maintenance instructions supplied by the engine manufacturer for specific information regarding proper oil type, weight and engine service classification.

## CAUTION

If improperly overfilled, the engine may emit excessive smoke when operated or appear to be seized when attempting to start. To correct these situations, drain the excess oil and remove the engine spark plug to clear oil trapped above the piston. Refer to the operating and maintenance instructions supplied by the engine manufacturer for specific information.

4) Replace the engine crankcase filler plug. Wipe off any excess oil spilled on the engine crank case.

# DANGER

THIS BLOWER UTILIZES A FOUR-CYCLE GASOLINE ENGINE WITH LUBRICATING OIL CONTAINED IN ITS CRANKCASE. DO NOT OPERATE THE ENGINE UNLESS PROPER OIL LEVEL IS MAINTAINED. FAILURE TO OPERATE THE ENGINE WITHOUT THE PROPER CRANKCASE OIL LEVEL WILL RESULT IN SEVERE ENGINE DAMAGE AND THE POSSIBILITY OF PERSONAL INJURY.

## FILLING THE ENGINE GASOLINE TANK

Tools Required: Small, clean funnel

- 1) Carefully clean the filler cap area and surrounding area to insure that no dirt or debris falls into the gasoline tank.
- 2) Fill the gasoline tank. The Blower's engine will operate satisfactory on any gasoline intended for automotive use. Use fresh, clean, unleaded gasoline. Leaded "regular" grade gasoline is an acceptable substitute. Do not fill the gasoline tank to the point of overflowing. Allow approximately 1/4 inch (0.6 mm) of tank space for fuel expansion. Refer to the operating and maintenance instructions provided by the engine manufacturer for specific information regarding fuel recommendations and related procedures.
- 3) Use of a properly blended gasoline for operation during the intended season will result in easier engine starting. Do not use gasoline left over from the previous season of operation.

# DANGER

DO NOT SMOKE NEAR THE GASOLINE TANK. DO NOT FILL THE GASOLINE TANK WITH THE ENGINE RUNNING OR IF IT IS HOT. ALLOW AMPLE TIME BETWEEN EACH REFUELING FOR THE ENGINE TO COOL.

# CAUTION

This Blower utilizes a four-cycle gasoline engine. Do not mix oil with the gasoline.

## Blower Operation

At the time of manufacture, the Blower is not Underwriter's Laboratory® (UL®) listed. Components utilized in the manufacture of the Blower may feature the applicable UL® and CSA® component recognition or listing.

### STARTING THE ENGINE

- 1) Place the Blower on the desired work location. The location should be relatively flat to prevent vibration from allowing the Blower to move.

# DANGER

OPERATION OF THE BLOWER ON ANY GIVEN SURFACE MATERIAL AND/OR CONFIGURATION MAY ALLOW FOR THE GENERATION OF RANDOM MOVEMENT AND/OR CREEPING. THIS RANDOM MOVEMENT AND/OR CREEPING IS A RESULT OF THE INHERENT OPERATING CHARACTERISTICS OF THE BLOWER AND CAN NOT BE READILY DEFINED AND/OR ANTICIPATED.

SUCH MOVEMENT AND/OR CREEPING CAN RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR EVEN DEATH.

- 2) Open the gasoline tank breather vent (if so equipped) to its maximum set position. Failure to properly open the breather vent will prevent the engine from receiving a continuous supply of fuel.
- 3) When starting a cold engine, move the choke lever as far as possible in the direction indicated by the arrow on the lever. A warm engine may not require choking. Pull the throttle control lever out to the RUN position. Pull the recoil starter handle until engine compression is felt. Then, give a fast, short, steady pull. If the engine fires, but does not start, do not continue to choke the engine. Pull the starter handle until the engine fires. Allow the starter rope to retract slowly. When the engine starts, open the choke control gradually.



4) Operate the Blower at full, governed engine RPM or at the speed that delivers the required air flow rate.

5) Stopping the Blower is accomplished by moving the throttle control lever to the STOP position or grounding the spark plug with the lever provided (if so equipped).

## DANGER

THE BLOWER IS DESIGNED FOR PORTABLE AIR VENTILATION PURPOSES ONLY. THE BLOWER IS NOT DESIGNED FOR TRANSPORTING LIQUID, SEMI-SOLID OR SOLID MATERIAL(S). THE GASOLINE MOTOR AND BLOWER WHEEL/FAN HOUSING ARE NOT DESIGNED FOR OPERATION IN AN EXPLOSIVE OR FLAMMABLE ATMOSPHERE. OPERATION OF THE BLOWER IN AN EXPLOSIVE OR FLAMMABLE ATMOSPHERE WILL RESULT IN PROPERTY DAMAGE, PERSONAL INJURY OR EVEN DEATH.

### FLOW RATES FOR MODEL GP8 PORTABLE VENTILATION BLOWER

FREE AIR 1303.9 CFM (36.5 CMM)

ONE 90° BEND 908.3 CFM (25.4 CMM)

TWO 90° BENDS 865.2 CFM (24.2 CMM)

Flow rates for the Model GP8 Blower were calibrated by the Colorado Engineering Experiment Station, Inc. The Blower was tested per AT&T standard EL2723/PL2709 in a chamber built in accordance with AMCA standard 210-67. The test was performed with a single, 8 inch (203 mm) diameter x 15 feet (7.6 m) flexible, reinforced duct connected to the Blower outlet. Flow rates were obtained with a nominal, governed, no load engine speed of 3600 RPM. The published flow rates are intended to serve only as a reference. Manufacturing tolerances and specific operating parameters will affect the overall flow rate(s) for each particular Blower.

## CAUTION

The air flow rate decreases as the length of the flexible, reinforced duct increases for both exhaust and suction job applications. Measured flow rates (with the use of ducts) will increase with the use of a flexible, reinforced duct less than 15 feet (7.6 m) in length and decrease with the use of a flexible, reinforced duct greater than 15 feet (7.6 m) in length. Flow rates will also vary with the specific ducts manufactured supplied by different sources.

6) Operate the Blower downwind from the work location and with the air inlet facing into the relative wind to maximize the air flow.

## DANGER

WHEN UTILIZING THE BLOWER TO FORCE AIR INTO A CLOSED WORK AREA, A COLLAPSIBLE, REINFORCED TYPE DUCT OF AT LEAST 10 FT. (3 m) IN LENGTH MUST BE COUPLED TO THE BLOWER INLET TO MINIMIZE THE POSSIBILITY THAT THE AIR FLOW DELIVERY IS NOT CONTAMINATED BY ENGINE EXHAUST FUMES. PLACE THE INLET END OF THE DUCT INTO THE RELATIVE WIND AS FAR AS POSSIBLE FROM THE BLOWER.



7) For normal exhaust (air blowing) operations, connect the duct to the Blower outlet. The duct can be one of two types:

- A) Collapsible, non reinforced type duct
- B) Collapsible, flexible, reinforced type duct

8) For normal suction (air evacuation) operations, connect the duct to the Blower inlet. The duct must be of the reinforced type to prevent the vacuum force generated by the Blower's suction from collapsing the duct.

## CAUTION

For both normal exhaust and suction operations, follow the air flow direction arrows (if so equipped) to insure maximum air flow delivery. Secure the duct to the Blower with the clamping strap. Tighten securely.

## DANGER

FOR BOTH EXHAUST AND SUCTION OPERATIONS, THE MINIMUM SAFE DUCT DIAMETER IS 8 INCHES (203 mm). FOR BOTH EXHAUST AND SUCTION OPERATIONS, THE MAXIMUM SAFE LENGTH IS 25 FEET (7.6 m).

9) The FD810 (10. ft. length), FD815 (15 ft. length) and FD825 (25 ft. length) are factory supplied ducts for use with the Blower. All are of the collapsible, flexible, reinforced type.

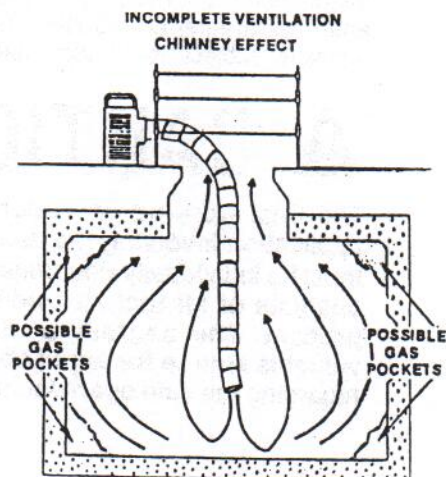
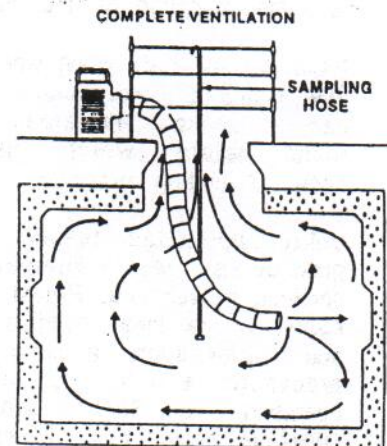
## DANGER

BEFORE UTILIZING THE BLOWER, CHECK ALL APPLICABLE FEDERAL, STATE, INDUSTRY AND LOCAL REGULATIONS REGARDING THE USE OF FLAME RESISTANT AND/OR SELF EXTINGUISHING DUCT MATERIALS FOR THE INTENDED JOB APPLICATION. IT IS THE RESPONSIBILITY OF THE OWNER(S) AND/OR OPERATOR(S) TO DETERMINE THAT THE DUCT MATERIAL IN USE FOR THE JOB APPLICATION MEETS ALL APPLICABLE FIRE CODE AND OSHA REQUIREMENTS.

10) The Blower must never be utilized by itself for portable, air ventilation purposes. Personnel and property safety can only be assured after making thorough gas detection tests combined with Blower ventilation and continual retesting.

## DANGER

ALWAYS ASSUME THAT A MANHOLE OR CONFINED WORK AREA IS CONTAMINATED UNTIL IT HAS BEEN PROVEN THAT IT IS SAFE FOR WORK PERSONNEL. NEVER ENTER A MANHOLE OR CONFINED WORK AREA, EVEN FOR A MOMENT, UNTIL IT HAS BEEN THOROUGHLY TESTED WITH APPROPRIATE GAS DETECTION EQUIPMENT AND THEN VENTILATED FOR AT LEAST A MINIMUM OF 5 MINUTES WITH THE BLOWER OPERATING AT MAXIMUM SPEED.



Purge the Blower hose at street level for at least one minute before placing it into the manhole or confined work area. Determine that the Blower intake is away from carbon monoxide fumes (if gasoline engine operated) or any other source of harmful fumes or gases. The most effective positioning of the outlet end of the Blower hose is on a cable rack or another supporting structure midway up a side wall, with the ventilating air being directed at an end wall. FIGURES 1a and 1b. This arrangement will provide for more even air distribution and will more effectively eliminate air spaces in corners where harmful gases may accumulate.

Prior to entering the manhole or confined work area, suspend the sampling hose from the top rail of the manhole guard (or confined area opening) with the connector end hanging down into the work area. Attach the tester to the sampling hose and purge by aspirating air through the tester for several seconds. Adjust the needle to zero and detach the sampling hose. Then, aspirate the ambient air into the tester and note the indication on the meter.

Make periodic tests while working and always after taking any work break. Harmful gases can accumulate in areas not previously found before, which necessitates a continual testing program.

Utilize appropriate testing equipment and procedures: test, ventilate, test and continue to ventilate. Retest at least every 2 hours. Where local conditions, procedures and policies apply, a more vigorous testing procedure should be utilized with the operation of the Blower. Contact the nearest OSHA office for more specific and current information regarding procedures, policies and requirements. Such information is regularly subject to change and revision.

## CAUTION

The final working procedure for any job application involving the use of the Blower must be individually determined after careful analysis of all factors and/or conditions present. The nearest OSHA office is a valuable source for applicable information regarding the safe operation of the Blower.

## Service

### DANGER

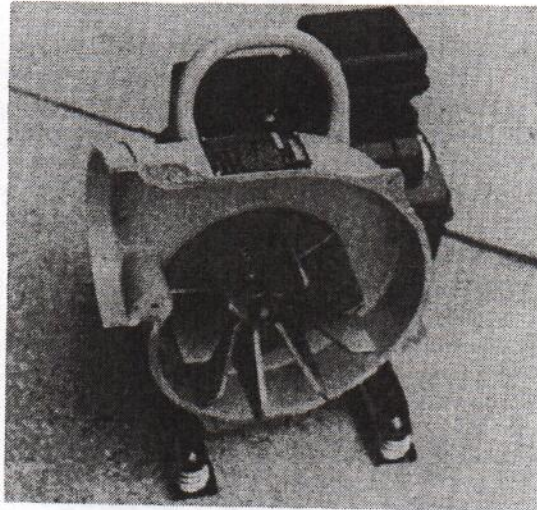
**STOP THE ENGINE AND DISCONNECT THE SPARK PLUG BEFORE PERFORMING ANY SERVICE WORK ON THE BLOWER.**

#### BLOWER HOUSING MAINTENANCE

Do not operate the Blower with a large accumulation of dirt and other debris within the blower housing assembly. Such a collection of foreign material can affect air flow delivery performance and should be removed periodically.

Disassemble the blower housing and clean with an approved, safety solvent.

Tools Required: 2 each, 7/16 inch wrenches  
1 each, 3/8 inch wrench  
1 each, small, flat bladed screwdriver



### DANGER

**DETERMINE THAT THE STRUCTURAL INTEGRITY OF THE INLET AND OUTLET SCREENS WILL ALLOW THEM TO SERVE THEIR PROTECTIVE FUNCTION. DO NOT REINSTALL A DAMAGED AND/OR DEFECTIVE SCREEN. DO NOT OPERATE THE BLOWER WITHOUT THE INLET AND OUTLET SCREENS PROPERLY SECURED AND IN PLACE.**

The blower wheel is factory balanced at the time of manufacture and should not require rebalancing under normal usage. Proper balance is essential to minimize wheel vibration and maximize air flow delivery. Periodically, apply a light coat of dry film lubricant to prevent the formation of corrosion on the wheel.

## **DANGER**

**DO NOT PAINT OR ALTER THE BLOWER WHEEL CONFIGURATION IN ANY MANNER. THE RESULT WILL BE AN UNBALANCED WHEEL CONDITION. AN UNBALANCED WHEEL CAN RESULT IN PROPERTY DAMAGE AND/OR PERSONAL INJURY.**

### **ENGINE SERVICE**

Consult the operating and maintenance instructions provided by the engine manufacturer for specific service and maintenance information regarding:

- 1) muffler
- 2) spark plug
- 3) air filter
- 4) carburetor adjustment
- 5) short and long term storage

Keep this information stored with the Operator's Manual for the Blower so it will always be available for use when the engine requires service or maintenance. A properly maintained engine will add considerably to the service life and overall productivity of the Blower.

## **Troubleshooting**

### **ENGINE**

#### **ENGINE FAILS TO START**

Inoperative ignition switch caused by an improperly adjusted throttle control. Open the throttle control to the RUN position.

Incorrect carburetor adjustment. See SERVICE section.

Ignition wire to spark plug loose or disconnected. Reconnect.

Fuel supply exhausted. Refill gasoline tank.

#### **ENGINE LOSES POWER**

Incorrect carburetor adjustment. See SERVICE section.

Water in fuel supply. Drain and replace fuel.

Dirty Spark plug. See SERVICE section.

Gasoline tank breather vent closed (if so equipped). Open vent.

Dirty air filter. See SERVICE section.

#### **ENGINE OVERHEATS**

Incorrect carburetor adjustment. See SERVICE section.

Incorrect oil level in crankcase. See SERVICE section.

Cooling fins clogged. Remove engine blower housing and clean cooling fins.

### **GENERAL**

#### **BLOWER LACKS POWER**

Inlet and/or outlet screens blocked with debris. See SERVICE section.

Blower wheel and/or housing filled with debris. See SERVICE section.

Damaged duct restricts air flow delivery. Repair or replace duct as required.

## **Storage**

Proper procedure for long term storage of the Blower will protect it against the effects of corrosion and damage. If the Blower is not to be operated for a period of 30 days or more, proceed to store as follows:

- 1) Clean all accumulated dirt and grease from the Blower utilizing a safety solvent.

2) Follow the procedure as outlined in the material provided by the gasoline engine manufacturer detailing long term storage of the engine.

3) Check all visible parts for wear, breakage or damage. Order any part required to make the necessary repair. This will avoid a needless delay when operating the Blower at next use.

4) Apply a light coat of dry film lubricant to the blower wheel to prevent the formation of corrosion.

5) Store the Blower inside. If the Blower must be stored outside, protect it with a suitable covering.

## Specifications

### ENGINE

TYPE Briggs & Stratton model  
80232

HIGH SPEED 3600 RPM nominal  
(no load)

IDLE SPEED 1750 RPM nominal  
(no load)

SPARK PLUG GAP .030 inch (0.76 mm)

FUEL Unleaded (Regular  
grade is an acceptable  
substitute) grade gas-  
oline. Consult the mat-  
erial supplied by the  
engine manufacturer for  
more specific informa-  
tion.

GASOLINE TANK 3 US quarts (3.19 l)  
CAPACITY

### BLOWER

TYPE Centrifugal

INLET & OUTLET 8 inches (203 mm)  
SIZE diameter