**WARNING ELECTRIC AUTO FEED SEWER SNAKE**

Any piece of equipment can be dangerous if not operated properly. **YOU** are responsible for the safe operation of this equipment. The operator must carefully read and follow any warnings, safety signs and instructions provided with or located on the equipment. Do not remove, defeat, deface or render inoperable any of the safety devices or warnings on this equipment. If any safety devices or warnings have been removed, defeated, defaced or rendered inoperable, **DO NOT USE THIS EQUIPMENT!!!**

**WARNING! Read and understand all instructions.** Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury. Replacement manuals are available upon request at no charge, or may be downloaded from our web-site, www.drainbrain.com. Instructional videos are available for download on our website, and may be ordered. If you have any questions or problems, please call General's customer service department at 412-771-6300

**SAFETY SYMBOLS**

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety massages that follow the symbol to avoid possible injury or death.


**DANGER** indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury.


**WARNING** indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.


**CAUTION** indicates a hazard with a low level of risk which, if not avoided, will result in minor or moderate injury.


**Electric shock resulting in death can occur if you plug this machine into an improperly wired outlet. If the ground wire is electrified, you can be electrocuted by just touching the machine, even when the power switch is off.** A ground fault circuit interrupter will not protect you in this situation. Use a UL approved tester to determine if the outlet is safe.

**Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.

**Only wear leather gloves. Never use any other type of glove, such as cloth, rubber, or coated gloves. Never grasp a rotating cable with a rag.** These items could become wrapped around the cable and cause serious injury.

**Always wear safety glasses and rubber soled, non-slip shoes.** Use of this safety equipment may prevent serious injury

**Never operate machine with belt guard removed.** Fingers can get caught between belt and pulley.

**Do not overstress cables.** Overstressing cables may cause twisting, kinking, or breaking of the cable and may result in serious injury.


**GENERAL SAFETY RULES**

**Work Area**

1. **Keep work area clean and well lit.** Cluttered benches and dark areas invite accidents.
2. **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
3. **Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

**Electrical Safety**

1. **Grounded tools must be plugged into an outlet, properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded.** If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
2. **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
3. **Do not expose power tools to rain or wet conditions**. Water entering a power tool will increase the risk of electric shock.
4. **Do not abuse the cord**. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
5. **When operating a power tool outside use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.
6. **Test the Ground Fault Circuit Interrupter (GFCI) provided with the power cord to insure it is operating correctly before operating machine.** Machine must have a properly functioning ground fault circuit interrupter on the power cord. GFCI reduces the risk of electric shock.
7. **Extension cords are not recommended unless they are plugged into a Ground Fault Circuit Interrupter (GFCI) found in circuit boxes or outlet receptacles.** The GFCI on the ma-chine power cord will not prevent electric shock from the extension cords.
8. **Only use proper three-wire extension cords in good condition which have three-prong grounding plugs and three-pole receptacles which accept the tool's plug.** Use of damaged, inferior, or other extension cords will not ground the tool. In-creases the risk of electric shock and bodily injury or death.
9. **Keep all electric connections dry and off the ground**. Reduces the risk of electric shock.
10. **DO NOT touch plugs or tools with wet hands.** Reduces the risk of electric shock.

**Personal Safety**

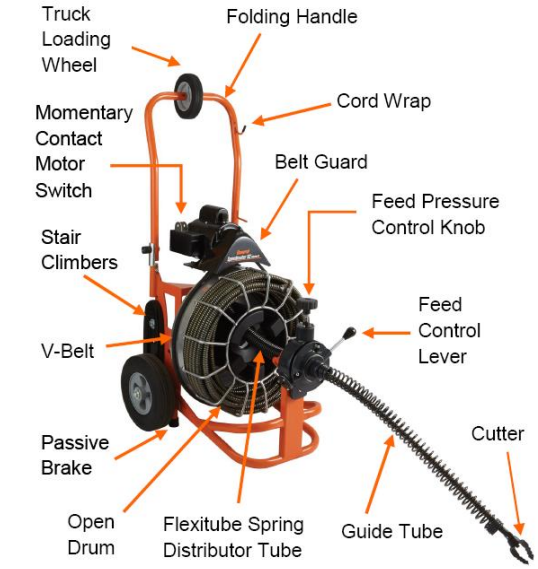
1. **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
2. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.
3. **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
4. **Remove adjusting keys or switches before turning the tool on.** A wrench or key that is left attached to a rotating part of the tool may result in personal injury.
5. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
6. **Use safety equipment. Always wear eye protection**. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

## SPECIFIC SAFETY RULES

**1. Only wear leather gloves. Never use any other type of glove, such as cloth, rubber, or coated gloves. Never grasp a rotating cable with a rag. These items could become wrapped around the cable and cause serious injury.**
**2. Never operate machine with belt guard removed. Fingers can get caught between belt and pulley.**
**3. Do not overstress cables. Keep leather gloved hand on the cable for control when machine is running. Overstressing cables because of an obstruction may cause twisting, kinking, or breaking of the cable and may result in serious injury.**
**4. Place the machine at a distance not greater than two feet from the opening. Greater distances can result in cable twisting or kinking.**
**5. Machine is designed for ONE-PERSON operation. Operator must control foot switch and cable.**
**6. Do not operate machine in reverse (REV). Operating machine in reverse can result in cable damage and is used only to back cutting tool out of an obstruction.**
**7. Keep hands away from rotating drum. Do not reach into drum unless machine is unplugged. Hand may be caught in the moving parts resulting in serious injury.**
**8. Be careful when cleaning drains where cleaning chemicals have been used. Avoid direct contact with skin and eyes. Drain cleaning chemicals can cause serious burns as well as damage the cable.**
**9. Do not operate machine if operator or machine is standing in water. Will increase risk of electrical shock.**
**10. Wear safety glasses and rubber soled, non-slip shoes. Use of this safety equipment may prevent serious injury.**
**11. Before starting each job, check that the cable in the drum is not broken or kinked, by pulling the cable out and checking for wear or breakage. Always replace worn out (kinked or broken) cables with genuine GENERAL replacement cables.**
**12. Only use this tool in the application for which it was designed. Follow the instructions on the proper use of the machine. Other uses or modifying the drain cleaner for other applications may increase risk of injury.**
**13. The motor is equipped with a thermal overload protector to guard against overheating. If the motor shuts off due to over-heating, wait for the motor to cool sufficiently, then press the reset button located in the back of the motor.**

**Ground Fault Circuit Interrupter (GFCI)**
Your machine is equipped with a ground fault circuit interrupter, which protects you against shock if a short circuit should occur. Check that receptacle is properly grounded. Test the GFCI before each use.
1. Plug into 120-volt receptacle.
2. Push test button. Indicator light will go out and power to machine should cut off.
3. If light does not go out when test button is pushed, **DO NOT USE THE MACHINE** until proper repairs can be made.
4. To restore power after test, push reset button. With the reset button depressed, if the machine doesn't start, stops while running, or if the operator experiences a mild shock, **DO NOT USE THE MACHINE!** Tag the machine out of service and take it to a motor repair center or return it to the factory for repairs.


## FEATURES




**NOTE:** Do not operate machine if warning labels on the switch box and power cord are missing or illegible.

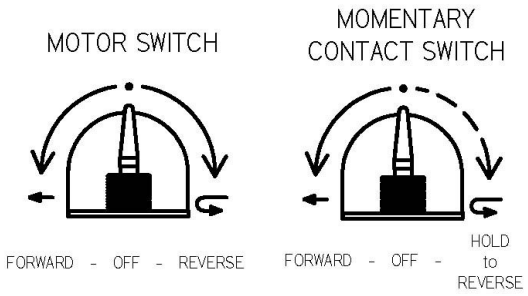

## OPERATING INSTRUCTIONS SET-UP

1. Place machine at a distance not greater than two feet (.6m) from the drain opening. Be sure the Speedrooter Guide Tube is in place. If you can't get the machine this close to the drain opening, run the cable through the Guide Tube Extension (GTE) or a metal guide tube to prevent cable whipping.
2. Position the air foot pedal for easy accessibility. The machine is designed for one-person operation. Be sure you can quickly remove your foot from the pedal in an emergency.
3. Be sure the motor switch is in the **off** position.

4. Make sure the Power Cable Feed is set to match the cable size you have selected. If you're using 3/4" or 5/8" cables, the feed should be assembled with the raised side of the lower two caps outward.
5. Select the proper cutting tool. A good tool to start with is the Spearhead or 2" U-Cutter. If you are having difficulty getting around a P-Trap or close bend, try the flexible leader. After the line has been opened, follow with larger blades, which scrape the inside edges of the pipe, assuring a real cleaning job.


**OPERATION**

1. Before stepping on the foot pedal, place the guide tube and cable into the drain opening.
2. Tighten the knob at top of the Power Cable Feed so that the feed roller presses against the cable. Be sure not to over tighten since this could cause excess cable wear.
3. The feed lever controls the feeding rate and direction of the cable. Move the lever down to feed cable out of drum. The further the lever is moved downward, the faster the cable will feed out. Move lever up to retract cable into drum. When the lever is in the middle (neutral) position, cable will spin in place.
4. Move the motor switch to the **forward** position.
5. With a gloved hand on the Guide Tube, step on the air foot pedal to start machine. Feed the cable into the line. Adjust the feeding rate to the resistance met. Do not force the cable - **let the cutter do the work**. The job won't go any faster and you could damage the cable and you could injure yourself.
6. If the cable starts to buckle or twist, release pressure on the foot pedal. Move the feed lever up and step on the foot pedal to retract excess cable back into the drum, then continue.
7. If you're having trouble getting around tight bends, try putting the machine in reverse for several seconds while applying steady pressure. If your machine is equipped with a momentary contact reverse switch, you must hold the switch in the reverse position.

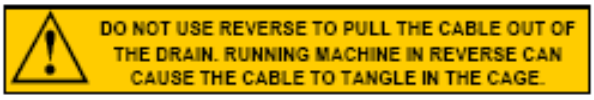


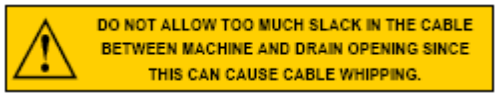

8. If you still cannot get the cable getting around a bend, you may be using too large a cable. Switch to a 5/8" cable, or smaller machine.
9. When the cable reaches the stoppage, move the feed lever to-ward neutral to allow the cable to progress forward slowly, chewing into the stoppage as it goes. This slow forward movement will reduce stress on the cable while doing a more thorough cleaning job. A back and forth action often works best.
10. Be careful not to let the cutter get caught in the stoppage as you work through it. This can cause kinking and breaking of the cable. When you feel the cable starting to twist, stop the machine and retract the cable. This will free the cutter from the obstruction. Then allow the cable to move forward slowly into the stop-page. Remember, no cutting takes place when the blades stop turning.

**Hint: it is often helpful to have a small stream of water running in the line to wash the cuttings away while the machine is in operation and after.**

11. After the line has been opened, retract the cable by moving the feed lever up. Make sure the motor switch is in the forward position.
12. When you hear the end of the cable near the drain opening, take your foot off of the pedal to stop drum rotation. Never retract the cutter from the drain while the cable is rotating. The cable could whip and cause serious injury. Do not retract cutter into the guide tube

**Warning**: On machines not equipped with a guide tube cable whip can be more likely to happen. **Do Not Force Cable!**

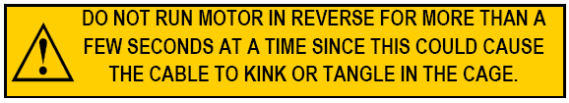



**Special Operations**

**IF CABLE GETS CAUGHT IN LINE**

The motor can be reversed for a few seconds at a time to free the cable if it gets caught in line. (Note: if using Power Cable Feed, putting motor in reverse will cause the feed control lever to operate opposite of normal.)
1. Hold momentary contact motor switch in the reverse position.
2. Step on the foot pedal while pulling on the cable.
3. After cable is loose, move the motor switch back into forward position.




**IF CABLE TANGLES IN CAGE (SEE MISUSE WARNING)**

This is almost always caused by using too much pressure when feeding the cable or by feeding the cable while running the machine in reverse. To untangle, rotate cage in opposite direction. If cable has become badly tangled, which will not happen when machine is used properly, it may be necessary to pull the entire cable out of the cage and re-install it.


If the person receiving this handout will not be the user of the equipment, forward these instructions to the operator. **IF** there is any doubt as to the operation or safety of the equipment, **DO NOT USE!!! CALL A TOOL SHED IMMEDIATELY!!! FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN INJURY OR DEATH**

⚠ **WARNING**: This product can expose you to chemicals including naphthalene and chromium from petroleum products used on the cable which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to **www.P65warnings.ca.gov**

**MISUSE WARNING**

Whenever the cage is rotating the chuck lock or thumb screw must be tight and the cable must be turning at the same speed as the drum. **If the snake binds**, **STOP** and follow the directions on the pervious pages to free it. Never try and feed the snake in Reverse.

**WARNING AUTO-FEED IS NOT POWER FEED: If the snake binds, STOP and follow the directions on the previous pages to free it. Never try and feed the snake in Reverse.**

The damage to this snake cable was caused completely from misuse.
**THE EQUIPMENT PROTECTION PLAN DOES NOT COVER MISUSE.**