

Operating Instructions



MAKE SURE THE MOTOR SWITCH IS IN THE 'OFF' POSITION!

1. Place machine at a distance not greater than two feet from drain opening. If you cannot get the machine this close to the opening, run the cable through a hose or pipe to prevent cable whipping.
2. Insert cutting tool in female connector at the front of the cable and tighten in place firmly with the connecting screw and lock washer. A good tool to start with is the Spear Head or 2" U-Cutter. After the line is opened, follow with larger blades which scrape the inside edges of the pipe, assuring a real cleaning job.
3. Loosen the thumb screw at the front of the cage and pull the cable out of the cage and put it into the drain until it will not go any farther. Then pull another foot of cable out of the cage so that an arc is formed between the machine and drain. Tighten the thumb screw on the front of the cage firmly against the cable.
4. Put the motor switch in the Forward position. Then, with both gloved hands on the cable, step on the foot pedal. Guide the cable into the line with a firm, even pressure.



DO NOT OVERSTRESS CABLES. OVERSTRESSING CABLES MAY CAUSE TWITING, KINKING, OR BREAKING OF CABLE AND MAY RESULT IN SERIOUS INJURY.

5. Do not leave too much slack in the cable since this will cause whipping. If the cable starts to bend or build up too much twist, release pressure on the foot pedal and rotate the cage in the opposite direction to relieve the twist on the cable. Push any excess cable back into the cage and then continue.
6. When the slack cable has been fed into the drain, stop the machine by taking your foot off the pedal. Loosen the thumb screw and pull another foot of cable from the cage. Tighten the thumb screw and continue feeding. Repeat the procedure until the drain line has been cleared.
7. If you are having trouble getting around bends, try putting the machine in reverse while applying steady pressure. Do not do this for more than a few

seconds at a time since this could cause tangling in the cage or kinking.

8. If you still cannot get around the bend, you are probably using too large a cable. Switch to a 5/8" diameter cable, or even a smaller one if necessary. (See Cable Application Chart.)
9. After the line is opened, return the cable to the cage with the motor turning **Forward**. This is important to prevent tangling the cable in the cage or in the line.

Hint: It's 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.



DO NOT USE REVERSE TO PULL THE CABLE OUT OF THE DRAIN. RUNNING MACHINE IN REVERSE CAN CAUSE THE CABLE TO TANGLE IN THE CAGE.

Special Operations

IF CABLE GETS CAUGHT IN LINE

The motor can be reversed to free cable if it gets caught in the line. Use the following procedure:

1. Tighten thumb screw at front of cage firmly against cable.
2. Move toggle switch on motor to reverse position.
3. Wearing leather gloves, pull on cable while the cage is turning in reverse.



DO NOT ALLOW TOO MUCH SLACK IN THE CABLE BETWEEN MACHINE AND DRAIN OPENING SINCE THIS CAN CAUSE CABLE WHIPPING.

4. When the cable is freed, loosen thumb screw and slide excess cable back into cage.
5. Move the toggle switch to the forward position again, and continue at Step 3 of the Operating Instructions.



DO NOT RUN MOTOR IN REVERSE FOR MORE THAN A FEW SECONDS AT A TIME SINCE THIS COULD CAUSE THE CABLE TO KINK OR TANGLE IN THE CAGE.

IF CABLE TANGLES IN CAGE

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 (See "How to Install Cable").

Work Area Safety

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. **Never remove the grounding prong or modify the plug in any way.** Do not use any adapter plugs. Check with UL approved tester or a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Grounded tools must be plugged into an outlet, properly installed and grounded in accordance with all codes and ordinances. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
2. **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.
3. **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.
4. **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
5. **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.
6. **Only use an outdoor extension cord marked "W-A" or "W" when operating a power tool outside.** These cords are rated for outdoor use and reduce the risk of electric shock.
7. **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. Increases the risk of electric shock and bodily injury or death.
8. **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 machine power cord will not prevent electric shock from the extension cords.
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. **Do not use tool while tired or under the influence of drugs, alcohol, or medication.** Stay alert, watch what you are doing and use common sense when operating a power tool. A moment of inattention while operating power tools may result in serious personal injury.
2. **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. 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. **Always wear safety glasses and rubber soled, non-slip shoes.**

Tool Use and Care

1. **Do not force tool.** Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
2. **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
3. **Unplug machine from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventative safety measures reduce the risk of starting the tool accidentally.
4. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
5. **Maintain tools with care.** Keep cutting tools sharp and clean. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
6. **Inspect for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
7. **Only use accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used on another tool.
8. **Keep handles dry and clean; free from oil and grease.** Allows for better control of the tool.

These instructions are intended to familiarize all personnel with the safe operation and maintenance procedures for the Easy Rooter.



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

 **DANGER**

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

 **WARNING**

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

 **CAUTION**

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

Easy Rooter Safety Instructions



 **WARNING**

Read and understand operator's manual before using this machine. Failure to follow operating instructions could result in death or serious injury.

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 website 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.

SAVE THESE INSTRUCTIONS!

 **WARNING**



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.



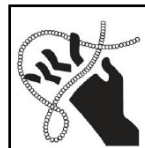
Only wear leather gloves. Never use any other type of glove, such as cloth, rubber, or coated gloves. Never grasp a rotating cable with a rag. These items could become wrapped around the cable and cause serious injury.



Always wear safety glasses and rubber soled, non-slip shoes.



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.

Tool Service

1. **Unplug machine when not in use.**
2. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified repair personnel could result in injury.
3. **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

Specific Safety Information

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 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. **The motor is equipped with an automatic reset thermal protector to guard against overheating. It will reset without warning when it cools sufficiently.** Do not use the machine until the motor has cooled sufficiently to reset.
12. **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.**

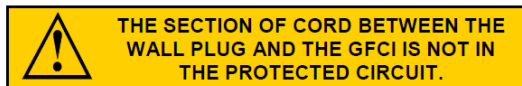
Always replace worn out (kinked or broken) cables with genuine GENERAL replacement cables.

13. **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.

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, equipment should not be used 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.








Cable Application Chart (Table 1)

Cable Size	Pipe Size	Typical Applications
3/4"	4" to 10"	Large Drains, Long Runs, Roots
5/8"	3" to 6"	Floor Drains, Clean Outs, Roots
*1/2"	2" to 4"	Laundry Tubs, Roof Vents, Stacks (No Roots)

*The 1/2" cable is for use with the ER-350 small drum.

Cutter Application Chart (Table 2)

Cutter	Cat. #	Typical Applications
Spearhead 	SHD	Starting tool, ideal for cutting and scraping.
2" U-Cutter 	2UC	Starting tool, to remove loose objects.
3" Heavy Duty Side Cutter 	3HDSC	Finishing tool, for scraping inside edges of pipe.
3" Heavy Duty Saw Blade 	3HDB	Cutting roots and heavy stoppages.
Retrieving Tool 	RTR-2	To remove loose objects and broken cables.

Note: There are no fixed rules for what cutter to use. If one tool doesn't take care of a stoppage, simply try another.