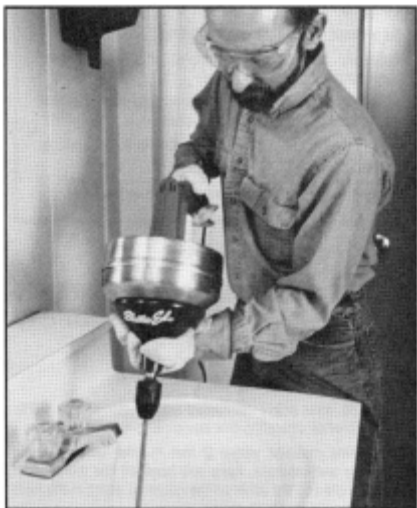


How to use the

*Electric Eel*®

Model S



For cleaning 1¼" - 2½" dia. drain lines



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# Safety Instructions

The following safety rules for operating ELECTRIC EEL's Model S Drain Cleaning equipment **MUST** be read carefully before operating this machine.

⚠ **DANGER** ⚠



To prevent serious injuries including:

- Shock, electrocution or burns due to improper grounding.
- Serious injuries to body, limbs or hands and feet due to cables that twist, kink and break.
- Eye injuries caused by loose cable, thrown debris or splashed water.

**READ SAFETY INFORMATION THOROUGHLY!**

⚠ **DANGER** ⚠

**TO PREVENT SERIOUS BODILY INJURY AND TO AVOID DANGER FROM ROTATING CABLES AND EQUIPMENT:**

## GENERAL SAFETY

1. **ALWAYS** wear heavy reinforced leather gloves and safety glasses when operating this equipment.
2. Place this machine within 2 feet of inlet between drain opening and machine. Keep one hand on the tool's pistol grip handle and the other on the red hand guard at the front of the tool **BEHIND** the chuck.
3. **NEVER HANDLE ANY CABLE UNDER TENSION.\* ALWAYS** relieve all tension build-up before attempting to handle cable, by releasing the trigger switch and turning off the power by **UNPLUGGING** the cord.

**\*Relieve all tension build-up before attempting to handle cable.**

4. Keep good footing and balance at all times. **DO NOT OVERREACH!**
5. **DO NOT WEAR** loose clothing or jewelry while operating this machine.
6. The Model "S" Drain Cleaning Machine should be **OPERATED BY ONE PERSON ONLY**. Additional personnel in the work area should observe all safety instructions.
7. Wear rubber-soled **NON-SLIP SHOES, HEAVY LEATHER** gloves, and **EYE** protection.
8. **ALWAYS AVOID** direct contact of drain water with skin, facial area and especially the **EYES**. Chemical compounds used in drains can result in serious burns and other injuries.
9. **REPLACE** fittings, cables, and any rotating parts as soon as they become visibly worn. **REPLACE** any cables which become fractured, bent, kinked, or otherwise damaged.
10. **NEVER** attempt to service equipment beyond the recommendations of the operating instructions. All other servicing should be referred to qualified Electric Eel service personnel.
11. To maintain safe operation, **USE ONLY** identical replacement parts and cables from Electric Eel.
12. **ALWAYS KEEP CLEAR** of rotating parts.
13. **DO NOT** continue to operate machine when it becomes stuck in an obstruction. **EXCESS TWISTING AND TORQUE ON A CABLE COULD CAUSE IT TO FRACTURE. FRACTURES CAN CAUSE INJURIES.**
14. Reverse rotation if necessary to prevent unnecessary twisting or build-up of torque on a cable. Keep machine under control at all times.
15. **NEVER** force a tool and cable into pipeline blockage. This may overload the cable or tool and cause fracture to either or both.
16. Use **CORRECT TOOL** for the job or application. Check the tool chart and use the proper tool for the size of the line being cleaned.
17. To maintain safe and efficient operation **CLEAN THOROUGHLY** all cables and tools with fresh water after use. Chemicals in the drain and sewer lines can attack and deteriorate the metal of the cables and tools. Deterioration can cause premature fracture or breakage in tools or cable.



**DANGER**



**TO AVOID SERIOUS BODILY INJURY AND TO AVOID DANGER FROM ELECTRICAL SHOCK:**

1. **ALWAYS** use a ground fault interrupted circuit with a properly grounded outlet for all electrical cords, connections, and parts as installed by factory. **DO NOT** make any alterations.
2. **NEVER** use machine in damp or wet conditions. Do not stand in water or on wet floors.
3. **NEVER** expose machine to rain.
4. **THE USER SHOULD NEVER ATTEMPT TO SERVICE THE ELECTRICAL COMPONENTS.** For safety reasons all electrical replacement components should be installed by a qualified electrician.
5. Before making adjustments or changes to power units, unplug and disconnect from electrical source.

## Operating Instructions



**DANGER**



**OPERATOR MUST BE THOROUGHLY FAMILIAR WITH ALL SAFETY INSTRUCTIONS BEFORE OPERATING THIS EQUIPMENT**

The Model S Drain Cleaner is designed to clean drain pipes that are between 1¼" and 2½" in diameter. A variety of accessory cables and heads are listed on the following pages of this manual. The following chart shows the recommended cable dimensions for cleaning the various size drains.

<b>DRAIN SIZE</b>	<b>CABLE SIZE</b>
1¼"	¼" or 5/16"
1½"	5/16" or 3/8"
2" - 2½"	5/16" or 3/8"

**DO NOT** use a cable in a larger drain than recommended: damage to the cable, tool, or personal injury could result.

## DRAIN CLEANER CHUCK

The Drain Cleaner is equipped with a KEYLESS type chuck. To operate chuck, grasp the outer body of the chuck with your hand and twist it counterclockwise to OPEN; twist it clockwise to CLOSE.

## INSTALL CABLE INTO DRUM

**CAUTION:** UNPLUG AND DISCONNECT DRAIN CLEANER FROM POWER SOURCE.

1. Use a vise or pair of pliers to make a bend in the tail end of the cable. This bend should be approximately 30 degrees, and located about 1" from the tail end of the cable.
2. Turn Drain Cleaner chuck counterclockwise to open.
3. Insert tail end of cable through chuck jaws and into drum. Use short (10" to 12" at a time), thrusts to feed remainder of the cable into drum.
4. Turn chuck body clockwise to close chuck jaws, securing the cable in the drum.

## TO START AND STOP DRAIN CLEANER

**CAUTION:** Make sure TRIGGER SWITCH on tool is OFF. Make sure that you are plugging into a household 120 Volt ground fault interrupter circuit.

Make sure cable is fully retracted into drum. Connect Drain Cleaner to power circuit.

1. Squeeze TRIGGER SWITCH to start motor. Release trigger switch to stop motor. The motor speed will increase the more the trigger switch is squeezed.
2. The REVERSING SWITCH is located above and in front of the trigger 1 switch and changes the direction of rotation of the cable.

FORWARD rotation is used when feeding the cable into the drain and when removing cable from drain. REVERSE rotation is ONLY used to free up the cable if it gets hung up.

**FOR CLOCKWISE ROTATION** release trigger switch and allow drum to stop rotating, push the reversing switch to the left side of the Drain Cleaner.

**FOR COUNTERCLOCKWISE ROTATION** release trigger switch and allow drum to stop rotating, push the reversing switch toward the right side of the Drain Cleaner.

**CAUTION:** Allow drum to completely stop rotating before changing direction of rotation.

**NOTE:** Never attempt to change direction of rotation while switch is ON. You may damage the switch interlock feature.

## **HOW TO HOLD THE DRAIN CLEANER**

Place one hand on the pistol grip handle at the rear of the tool and keep the other hand on the red hand guard at the front of the tool **BEHIND** the chuck. **KEEP CLEAR** of the rotating drum while tool is in operation.

## **INSERTING CABLE INTO DRAIN**

1. Make certain that the reversing switch is set for **FORWARD** rotation, and that the power source matches the voltage on the tool's specification plate. Connect Drain Cleaner to ground fault interrupted power source.
2. Open chuck and pull out approximately one foot of cable.
3. Close chuck tightly.
4. Operate Drain Cleaner at low speed while slowly feeding cable into drain.

**NOTE:** If cable binds, **STOP** the tool immediately. Set switch for reverse rotation. Operate motor slowly while pulling back lightly on the Drain Cleaner to free the cable. **DO NOT** operate the tool in reverse for extended periods. Extended reverse operation can damage the cable.

5. Continue to operate tool at low speed while repeating steps 2 through 4 to feed additional cable into the drain until the obstruction is cleared.