How to use the Electric Eel 🛛

Model C



Cleans 3" to 10" diameter sewers, drains and industrial pipelines for distances over 200 feet!



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Safety Instructions

The following safety rules for operating ELECTRIC EEL's Model C Sewer and Drain Cleaning equipment MUST be read and followed carefully before operating this machine.



🛆 DANGER 🛆

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

GENERAL SAFETY

- ALWAYS wear HEAVY reinforced leather gloves and SAFETY glasses when operating this equipment.
- Place this machine within 8 feet of inlet, and NEVER add more than ONE 8' SECTION of cable at a time between sewer opening and machine.
- 3. NEVER handle rotating cable or cable under tension.
- DO NOT WEAR loose clothing or jewelry while operating this machine.
- The Model "C" Sewer and Drain Cleaning Machine should be OPERATED BY ONE PERSON ONLY. Additional personnel in the work area MUST observe all safety instructions.

- Wear rubber-soled NON-SLIP SHOES, HEAVY LEATHER gloves, and EYE protection.
- ALWAYS AVDID direct contact of skin, facial area and especially the EVES with drain water. Chemical compounds used in drains can result in serious burns and other injuries.
- REPLACE fittings, cables, and any rotating parts as soon as they become visibly worn. REPLACE any cables which become fractured, bent, kinked, or are otherwise damaged.
- NEVER attempt to service equipment beyond the recommendations of the operating instructions. All other servicing should be referred to qualified Electric Eel service personnel.
- To maintain safe operation, USE ONLY identical replacement parts and cables from Electric Eel.
- ALWAYS KEEP CLEAR of rotating shafts, pulleys, belts, or other rotating parts.
- 12. DO NDT continue to operate machine when cleaning tool becomes stuck in obstruction. EXCESS TOROUE ON A CABLE COULD CAUSE IT TO FRACTURE. RELEASE CABLE TENSION to prevent unnecessary build-up of torque on the cable. Keep machine under control at all times. (Refer to operating instructions to free cleaning tool).
- NEVER HANDLE ANY CABLE UNDER TENSION.* ALWAYS relieve tension on the cable by reverse rotation or by turning the switch off and unplugging the cord.
- NEVER force a tool and cable into pipeline blockage. This may overload the cable or tool and cause it to fracture.
- 15. Use CORRECT TOOL for the job or application.
- 16. To maintain safe and efficient operation CLEAN THOROUGHLY all cables and tools with water after use. Acids 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.

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



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

GENERAL SAFETY—ELECTRICAL

 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.

- NEVER use machine while standing in damp or wet conditions.
- 3. NEVER expose machine to rain.
- 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, DISCONNECT FROM ELECTRICAL SOURCE.

THE GROUND FAULT CIRCUIT INTERRUPTER

This machine is equipped with a Ground Fault Circuit Interrupter which is designed to prevent a serious electrical shock. This device should be TESTED on the job site BEFORE putting the machine into operation, as follows:

- To ensure protection against electrical shock, test the device before each use. When test button is pushed in, the indicator light should go OFF, Reactivate the device by pushing the reset button in. If the indicator light goes ON, the device is ready for use. Do MOT use the device, if the indicator light does not go ON WHEN RESET or if the indicator light REMAINS ON, when the TEST BUTTON IS PUSHED IN.
- This device DOES NOT guard against electrical shock resulting from defects or faults in any wiring supplying power to this device, or from contact with both circuit conductors.
- 3. DO NOT use with an extension cord on the plug end.
- If an extension cord is used, the power source MUST be equipped with a ground fault interrupter circuit and properly grounded.
- ONLY use 14 ga. or larger, three-wire, extension cord, (with ground wire), with three prong grounding plugs and three pole receptacles.
- When using extension cord outdoors, ONLY use those intended for outdoor use. (Indicated on cord by suffix, "W-A", after cord type).

Operating Instructions

A DANGER A

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

- If at all possible, the nature and approximate location of the stoppage should be determined before starting the job. Usually a drain or sewer line obstruction is removed by running the cleaning tool downstream until the obstruction is reached.
- The cleaning tool should be chosen according to the enclosed information.
- The cleaning tool reduces the obstruction to small pieces, which are then washed downstream by the flow of water. In such cases, after clearing the obstruction, you should use as much water in the line as possible.
- Check for clean outs—and, where possible, avoid traps by using an opening beyond the trap.
- 5. Wheel the machine into the space where the work is to be done. Remove as many 8' sections of cable from the cable container as operating space will permit—and use a spanner wrench to separate the cables.
- 6. Then connect the proper tool to the first section of cable, and insert it into the opening of the pipeline that is to be cleaned. If it enters the pipeline freely, feed it in by hand until an obstruction is met. Then, attach the cable to the machine. BEFORE TURNING ON THE MOTOR, BE SURE THE REVERSING SWITCH IS ON "FORWARD".
- 7. If the opening is trapped, you must use the feeding tool to start the cable into the line. The FEEDING TOOL is held against the rotating cable so that the cable feeds into the pipeline far enough to gain its own footing. If one man is starting the job and it is necessary to use a feeding tool, remove the starting switch from its bracket and use it and the feeding tool.
- 8. As soon as the cleaning tool has negotiated the trap, shut off the motor and return the switch to the bracket. AVOID "P" traps in 3" clameter pipelines as they can cause severe cable damage. We recommend our Model J cables and cleaning tools for this application.

- 9. To add additional 8' cable sections use the following procedure, but MEVER add more than ONE 8' SECTION of cable at a time between sewer opening and machine. Feed the added section into the pipeline until the machine is two or three feet from the opening. Then add another length of cable. The open spaced, right hand wound construction of the cuter cable member provides a self-feeding action and exerts and even pressure against the pipeline stoppage. If the safety clutch slips, put the machine in reverse and back away momentarily from the obstruction.
- 10. Work the cable back and forth—by alternating the motor in reverse and forward for a few seconds in each direction until the initial opening in the obstruction is made. It is not necessary to let too much cable out of the line. A foot or two backward and forward several times usually does the job. Repeated slippage may indicate a broken or damaged pipeline. AVOID slick in the cable between the machine and the pipeline opening—as this is the area where cable will have a tendency to loop and then kink and become damaged ant/or could cause serious injury.
- 11. Repeat this operation until flow is established. WHEN POSSIBLE, KEEP PLENTY OF FRESH WATER RUNNING THROUGH THE LINE WHILE WORK IS BEING DONE. This allows the obstruction, broken loose by the cleaning tool, to be flushed out. This also allows the cable to be washed off when it is withdrawn from the pipeline. It is important to wash off the cable in this manner—or with a hose—immediately after the job is completed. This prevents damage to the cable and tools by the chemicals present in drains and sewers.
- 12. After the initial opening is made, reverse the motor to feed the cable out of the line. Use the proper tool to complete the job. Occasionally, a tool will hang up on some obstruction and will not feed back. If this happens, put the motor in forward rotation and pull back on the doily unfill the tool is past the obstruction. Then, put the machine in reverse and the tool will feed out.

CLEANING TOOLS

Cleaning tools fail basically into two categories: (1) starting tools which have drill or spade points, and (2) finishing tools which usually are of a flat spring design with servated edges. 3' and 4' diameter lines can usually be cleaned by using the starting tool to make the initial opening and then using the finishing tool for the second run through the line.

Badly blocked pipelines usually require more than two runs through the line. Progressively larger cleaning tools should be used on each run until the line is cleaned to its original diameter. EXAMPLE: A badly blocked 4' pipeline should be opened with the A-1DC tool. The HDD-3S tool should be used for the second run. The finishing run should be made with the HDD-4S tool—or with the A-14DC tool if entrance is made through a 'P' trap.

Since the dual cable imparts a whipping action to the cleaning tool, the opening made in the pipeline obstruction is approximately 1/2' to 1" larger in diameter than the cleaning tool.

A FEW SUGGESTIONS...FOR BETTER PERFORMANCE AND CLEANER PIPELINES









 stop machine, disconnect cable, and add one or more cable sections before resuming operation.

If a "P" trap must be negotiated, use the cable feeding tool to start the cable through the trap.

NEVER ATTEMPT TO NEGOTIATE A "P" TRAP SMALLER THAN 4" IN DIAMETER.