

How to use the

*Electric Eel*®

EJ1500



For use in 1½"-4" dia. drain lines



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# Steps For Safe Operation

**IMPORTANT:** Before proceeding with the operation of the machine, be sure you have read carefully and understand all warnings, cautions, and the pre-operation checklist. Check oil levels.

## Operation

1. Connect one end of the supply hose to the water faucet. Turn water faucet on fully and purge air from the hose line – turn water off. Connect the other end of the hose to the water inlet connection at pump. Select and securely fasten nozzle to jet hose. Insert hose into the line to be cleaned **at least 3 feet**.
2. Turn on the water faucet.
3. Start electric motor.
4. Open water valve to jetter hose. The hose will begin to advance into the drain line. Pull additional hose from the reel and guide it into the line.
5. The Electric Eel jetter will operate up to 1500 PSI. If the machine is operating at a lower pressure, the pressure control knob can be turned clockwise to increase pressure. The operating pressure is shown on the pressure gauge. Turn the knob counterclockwise to decrease pressure.
6. Always pull the water jet hose back one-half the distance advanced. The actual cleaning of the line takes place when the hose is pulled back toward the operator. By moving the hose back and forth, it also helps insure that the hose is not caught in the pipeline.
7. If the hose fails to advance down the line or has difficulty in maneuvering around bends, rotate the hose by forming a loop of hose near the drain opening, then rotate the loop 90 degrees to 180 degrees until the hose advances. If possible, it is always best to clean a line from the lower end.

## Hose Selection

When using a new hose, run water through it to clean it out before attaching a nozzle.

### Hose Size Pipe Size Typical Applications

1/2" & 3/16"	1 1/2"-2"	Bathroom sinks, showers, smaller lines
3/4"	2-4"	Laundry drains, kitchen sinks

## Nozzle Selection

Make sure the nozzle you use matches the size of the pump. For example, a 1000 PSI pump requires a different nozzle than a 3000 PSI pump. Selecting the wrong nozzle will cause either a pressure loss, which will limit the cleaning ability, or a build up of too much pressure, which can damage the machine. All nozzles will have holes in the rear to propel the hose down the line, as well as to clean the line. A nozzle with both a rear and a forward hole is used to penetrate solid grease or sludge blockages. **Always** check nozzles before each use for possible clogs.

## 1500 PSI Nozzles

1/2"	40 Degree	Multiple Rear Jets
1/2"	25 Degree	Multiple Rear Jets w/Forward Jet
3/4"	40 Degree	Multiple Rear Jets
3/4"	15 Degree	Multiple Rear Jets
3/4"	15 Degree	Multiple Rear Jets w/Forward Jet

The 15 Degree nozzles have a tighter spray pattern and more driving power for longer runs. The 40 Degree nozzles have a wider spray pattern for removing grease from the walls of a drain line.

12. **Always** locate drain/sewer cleaning machine as close as possible to opening of pipe – be sure hoses are not allowed to whip.
13. **Never** point end of hose at a person while operating.

## Cautions

1. **Keep** all decals, labels, warnings, cautions, and instructions with machine. Contact Electric Eel immediately if new decals or labels are needed.
2. **Never** wear loose fitting clothing while operating any Electric Eel sewer/drain cleaning machine.
3. **Never** operate machine when fatigued or tired.
4. **Always** place machine and controls in a stable and accessible position for safe operation.
5. **Never** exceed limitations of equipment or accessories.
6. **Always** lift with your legs, not your back.

## Pre-Operation Checklist

**IMPORTANT:** Review material carefully before proceeding to operational instructions.

1. The inlet screen must be cleaned regularly before each use to avoid damage to the pump and pulsator. Unscrew cap underneath filter, remove the screen, rinse thoroughly with water, and replace the screen.
2. Before using the machine, make certain the incoming water supply does not contain any impurities such as dirt, debris, or foreign objects. Turn water on for at least 15 seconds and let it run before connecting hose to machine to remove any debris.
3. Hose used for water supply should have an inside diameter line of at least  $\frac{3}{8}$  inch. If unit is run without proper water supply, pump damage can occur. The supply must be capable of providing the flow rate required by the pump.
4. Water temperature should not exceed 160°F as high temperature can cause failure of seals in pump.

Check the level of pump oil before each use. The oil should be half way up the site glass.

Read the operating instructions carefully before operating any Electric Eel product. Sewer/drain cleaning can be dangerous if proper safety procedures are not followed. Know the proper operation, limitations, and correct applications of all Electric Eel products before use.

## General Operating Warnings

1. **Never** remove jetter hose from drain line while electric motor is running or hose is pressurized.
2. **Always** wear safety glasses, face shield, and rubber gloves when operating machine.
3. **Always** avoid eye or skin contact with acids or caustic substances while cleaning sewers and drains.
4. Before beginning work, ask the customer if either acids or caustic substances are present in the pipe to be cleaned – and **ALWAYS** neutralize or remove such substances from drain line before cleaning. Exposure to these chemicals can cause serious injury to operator and damage equipment.
5. **Never** expose any skin cuts to drains and sewers and sewer cleaning equipment. Since drains and sewers carry bacteria, the possibility of infectious disease exists.
6. **Always** avoid contact with ears, eyes, or mouth with contents of pipe to lower risk of bacterial infection.
7. **Never** leave the equipment unattended once you have turned it on. If you must leave, shut off the equipment and relieve the pressure.
8. **Always** wear non-skid footwear.
9. **Never** spray flammable liquids. Spraying flammable liquids could cause fire or explosion, and is danger to personnel. Do not use as a spray unit for any material except to spray water inside pipes.
10. **Never** let children or untrained adults operate the machine. Children should not be allowed in the area of operation.
11. **Never** spray toxic chemicals such as weed killer or insecticide. Such chemicals are a danger to personnel. Do not use as a spray unit for any material except to spray water inside pipes.

## Pulsation

The Electric Eel jetter (1500 PSI) comes equipped with a pulsator. The pulsator will assist in moving the jetter hose into the pipeline and around tight bends easier. The pulsating action in the hose reduces drag on the jetter hose, and with the assistance of the nozzle, causes the jetter hose to propel itself into the drain line. **Always start the electric motor with the pulse off.** It may not always be necessary to use the pulsation feature on lines with minimum blockage. The job can usually be completed without pulsation.

## To Engage In Pulsation:

1. Make sure unit is running and hose is in line.
2. Turn the pulse valve clockwise until a noticeable pulsation can be felt in hose.
3. Adjust knob until desired pulsation level is reached.
4. When the line has been cleared, turn off pulsation completely.

## Shutdown

After blockage has been cleared and water is flowing through the line, close water supply valve to jetter hose. Turn off motor. Retract hose from line and rewind on reel.