

Cable Drum Machine

Operation Manual

40 SERIES

Cleans 2" to 4" lines up to 75'

Used For: Sinks, Showers & Floor Drains



NOT FOR ROOTS



WARNING - Read All Instructions, When Using Electric Tools, Basic Safety Precautions Should Always Be Followed To Reduce The Risk Of Fire, Electric Shock And Personal Injury. Save These Instructions.



SAFETY INSTRUCTIONS



Figure 1

Important

Replacement parts:

When servicing, use only identical replacement parts. Polarized plugs: To reduce risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

CAUTION!

When lifting any
heavy objects

ALWAYS

lift with your knees

NEVER

lift with your back

Failure to read and follow these instructions may result in damage to the machine or injury to the operator.

- Check the power cord for damage, ensure that the plug has been removed from the socket. If the cord is damaged in any way, do not use. **(see Fig. 1)**
- This product is designed to be used by one person only. The operator must control the cable.
- Keep children away from the work area and the cable.
- DO NOT wear loose clothing, neck ties, unbuttoned jackets, rings, watches or jewelry. Always tie back long hair to avoid it from becoming entangled with the cable
- Wear snug fitting leather gloves when operating this machine. Do not use cloth or fabric gloves as these can get caught in the coils of the cable while it is rotating.
- Familiarize yourself with the functions and controls before using this machine.
- ALWAYS wear protective goggles and safety shoes.
- Do not use this machine when you are tired, have been drinking alcohol or are taking medication that may make you drowsy or less alert.
- Always try to keep your balance and do not overreach while using this machine.
- DO NOT operate this machine in reverse. Operating the machine in reverse can result in cable damage and must only be used to help back a cable out of an obstruction.
- It is recommended that the machine is positioned within 2 feet of the inlet. A greater distance could result in the cable twisting or kinking which may in turn result in the end of the cable springing unexpectedly from the inlet. This can be dangerous.
- If the cord supplied with this machine is not long enough, you must use a 16-gauge heavy-duty outdoor type extension cord and ensure that it is fully unwound. Using lighter cords can result in severe power loss and motor overheating.
- When in use, DO NOT use too much force – let the cable heads do the work.
- If the cable begins to buckle or build up too much twist, turn the machine off immediately and rotate the cable in the opposite direction until the twist or buckle has been removed.
- DO NOT make any modifications whatsoever to this product.
- DO NOT use this product for anything other than its intended purpose. Improper use could result in personal injury or damage to the product and will also invalidate the product warranty.
- Where strong cleaning compounds have been used in drains, take particular care to avoid contact with the cable or debris found in the drain. Strong cleaning compounds can cause serious burns to the skin and cause severe irritation to the eyes.
- Remember: always wear safety goggles.
- Keep these instructions in a safe place for future use or when loaning or selling the product.
- If you are in any doubt at all about how to use this machine, consult a suitably qualified plumber.

• This machine is equipped with an in-line ground fault interrupter. ALWAYS make sure that you use a grounded cord or extension cord when plugging in machine to the electrical socket. (See Fig.1)

CABLE DRUM SET-UP

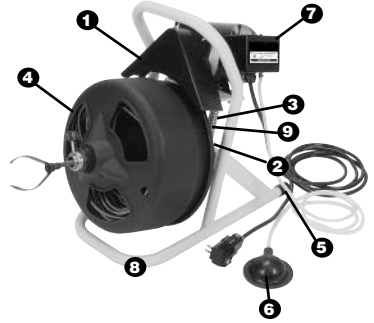


Figure 2



Figure 3

1. Belt Guard
2. Belt
3. Extension Spring
4. Drum
5. Rubber Tip (2)
6. Foot Switch Actuator
7. Motor (115V/60Hz)
8. Frame
9. Drum Release Hook



Normally, your machine is set-up fully assembled and ready to use.

If you need to place the belt on the drum, remove the wing nuts on the pulley wheel cover (belt guard) and remove the guard. **(see Fig. 2)** Slide the belt under and over the drum and onto the pulley wheel. Then, push the motor housing downward to locate the belt onto the pulley wheel. **(see Fig. 3)**

Your cable drum machine has four useful tool attachments to cope with virtually all obstructions.

In general, it is wise to use a tool that is at least 1", (26mm) smaller than the line to be cleared. The type of tool will be determined by the nature of the job and the operator's own judgement.

SELECTING TOOLS



Straight Boring Head

For use when exploring and breaking up blockages or returning samples to the surface to determine the correct tool to use.



Spear Auger

For lines which have become badly greased with detergents and have to be re-opened.



Side Cutter

For use in cleaning pipes of various material clinging to pipe walls.



Grease Cutter

For cleaning any stoppages, rags, sticks, grease, etc – the all rounder.

OPERATING INSTRUCTIONS



Figure 4

IMPORTANT: You must read the safety instructions for this machine before use.

- 1 For best results it is recommended that the machine is positioned within 2 feet of the drain inlet pipe or stack. (see Fig. 4)
- 2 Loosen thumbscrew and pull sufficient cable out of the drum and place the end of the cable as far into the inlet as possible.
- 3 Plug the power cord into the electrical socket.
- 4 Pull approximately 5 feet of extra cable from the drum creating a slight loop of cable between the machine and the inlet. This should gently be fed into the inlet.
- 5 Place the motor switch in the forward (FOR) position and depress the foot pedal to start the machine. The drum will begin to turn as will the cable.
- 6 While depressing the foot pedal, continue to push cable into the sewer outlet or drain pipe using ONLY a gloved hand. Do not use a woolen glove.

WARNING: When the cable has reached the obstruction, do not apply excessive force too quickly – let the selected cutter do the work. The thumbscrew should be tightened onto the cable at this point.

- 7 Once the obstruction has been cleared, the line should be washed through with a hose or power washer.
- 8 To retrieve the cable, first stop the machine by moving the toggle switch to the OFF position. Loosen the thumbscrew and hand feed all the cable back into the drum, cleaning it in cold water as you go.
- 9 Finally, tighten the thumbscrew by hand.

Warning A: Do not allow the cable to get hung up on the obstruction. If the cable end gets hung up on an obstruction, switch the motor to the off position and then reverse (REV) the motor until the cable becomes free. Once free from the obstruction, turn motor to the forward (FOR) position and resume clearance operation.

Warning B: Do not allow cables to become “over-stressed.” Over stressing cables due to a stubborn obstruction or snag will create tension in the cable leading to cable damage or an unpredictable cable reaction. If the cable becomes over-stressed, follow the same procedure as advised in “Warning A.”

Warning C: Never fully retract the cable from the inlet while it is rotating.

Note: It is recommended that the cable is continuously flushed through with clean water as it is being retrieved from the pipe and again before putting it away.

ELECTRICAL SAFETY

WARNING: Always unplug the power cord when adjusting or cleaning the machine.

- Check that the power specification used is the same as specified on the nameplate found on the motor housing.
- When using extension cords outdoors, use only those recommended for outdoor use and ensure that the cable reel doesn't sit in water.

MACHINE MAINTENANCE

WARNING: Always unplug the power cord when adjusting or cleaning the machine.

- Regularly inspect cables for damage. Replace worn or kinked cables.
- Inspect machine's electrical lead and extension lead for damage. Never use frayed, broken, or worn cables.
- When not in use, store the machine in a secured, locked area, out of the reach of children and people unfamiliar with this machine.

Lubrication

Grease all exposed and moving parts.

Storage

The machine must be kept in a dry, safe place, out of the reach of children.

Cables

The metal cable should be thoroughly cleaned with water to prevent unpleasant odors and the damaging effects of drain cleaning compounds.

WORK AREA ENVIRONMENT

- Do not expose to rain
- Keep work area well lit
- Do not use machine in presence of flammable liquids or gases
- Guard against electrical shock
- Prevent body contact with grounded surfaces
- Properly store machine when not in use
- Never carry machine by its cord or yank the cord to disconnect machine
- Don't overreach. Keep proper balance at all times
- Avoid unintentional starting
- Be sure the motor toggle switch is in the OFF position when starting.
- Keep cord from heat, oil, and sharp edges
- Check for damaged parts before using machine: belt guard or other parts that are damaged should be carefully checked to determine that the machine will operate properly and perform its intended function.
- Check for alignment of moving parts, breakage of parts, mounting and any other condition that may affect the machine's operation.

NOTE:

- See instruction manual for replacing a damaged belt guard.
- Defective motor switch should only be replaced by an authorized service center.

TO REMOVE DRUM



Figure 5



Figure 6

1. Remove the wing nuts on the pulley wheel cover (belt guard) and remove the guard. **(see Fig. 2)**
2. Remove the drive belt from the drum by pressing down firmly on the spring motor housing and release the drive belt.
3. A release hook is situated immediately behind the drum. **(see Fig. 5)** Pull this hook upward and pull the drum forward to remove it from the frame. **(see Fig. 6)**

INSTALLING REPLACEMENT CABLE



Figure 7

1. Loosen the thumbscrew and remove the existing cable from the machine.
2. Uncoil the new cable completely
3. Carefully insert the cable into the drum and continue doing so until installation is complete.
4. Finally, tighten the thumbscrew. **(see Fig. 7)**

SPECIAL APPLICATIONS

Reverse Operation

Running this machine in reverse should only be done if the cable becomes blocked and only for a few seconds, enough to free the end of the cable.

If the cable gets caught on an obstruction, immediately take your foot off the foot pedal to allow the machine to come to a complete stop.

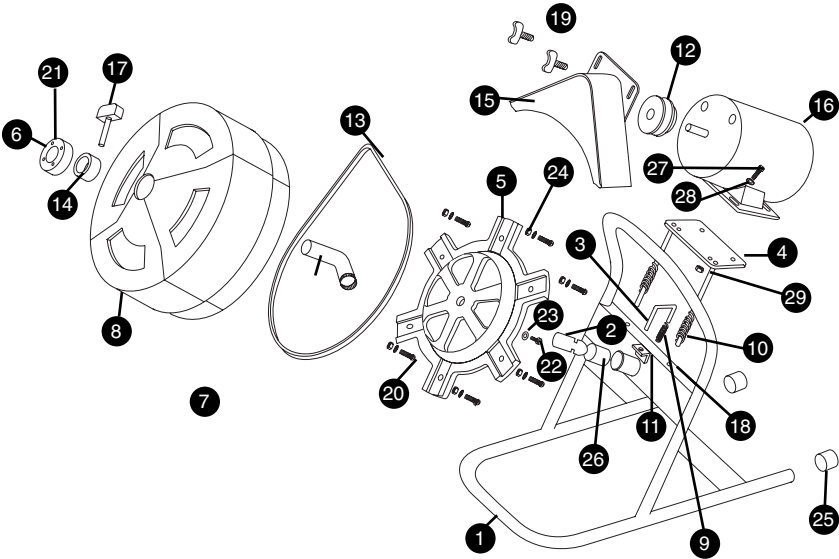
Fully tighten the thumbscrew and switch the motor to the (REV) position. Grasp the cable with a gloved hand and pull it back out of the line.

When the cable is dislodged, place the motor switch in forward (FOR) position, loosen the thumbscrew, and follow normal operating procedure.

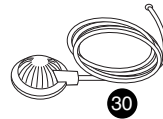
DRAINING WATER FROM DRUM

Your model is equipped with a drain hole in the cable drum. It is recommended that all water residues should be removed from the drum, especially during any long storage in winter. Remove the drum from the machine and place it face down. This will allow all the water to drip out.

PARTS



REF#	PART NO.	DESCRIPTION
1	850-990400	Frame Assembly
2	401-990444	Drum Drive
3	250-250005	Lock Pin
4	700-007167	Motor Mount Plate
5	500-980400	Hub
6	400-990440	Nose Cone
7	750-016406	Distribution Tube
8	400-990400	Drum
9	650-990440	Spring-Lock Pin
10	650-990441	Spring-Motor Mount (2)
11	401-990025	Locking Shaft Collar-Lock Pin
12	401-400059	Pulley
13	401-044887	Belt
14	401-990124	Locking Shaft Collar Distribution Tube
15	400-430000	Belt Guard
16	401-672300	Motor
17	350-990542	Thumb Screw
18	401-830000	Plastic Bushing-Motor Mount (8)
19	350-142003	Wing Nut (2)
20	350-252558	Phillips Head Screw (6)
21	350-142004	BTN. Head Screw (4)
22	350-375161	Distribution Tube
23	350-375109	Lock Washer
24	350-142040	Lock Nut (6)
25	450-045378	End Cap Plastic (2)
26	401-840000	Bronze Bushing
27	350-142021	Socket Head Bolt (4)
28	350-315000	Lock Washer (4)
29	350-142002	Nut(4)
30	401-990446	Air Actuated Foot Switch
31	350-313125	Lock Washer (9)



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Customer Service..... **800-835-2200**
Fax Order Service..... **856-241-1699**

PARTS AND PRICING MAY CHANGE WITHOUT NOTICE



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