

# Cable Drum Machine Operation Manual *20 Series*

Cleans 3/4" to 3" lines up to 50'

**Used For:** Sinks, Showers & Tub Drains



**" 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

## 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.

**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.
- 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 head 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.

# OPERATING INSTRUCTIONS



Figure 1



Figure 2

**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. **(see Fig. 1)**
- 2 Loosen the thumbscrew, pull sufficient cable out of the drum and place the end of the cable as far into the drain as possible.
- 3 Attach the drill motor cord to the air press box.
- 4 Attach the air foot switch to the press box. **(see Fig. 2)**
- 5 Plug the press box cord to the outlet. **(see Fig. 2)**
- 6 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.
- 7 To operate, place the drill motor switch in the forward (FOR) position and depress the foot pedal.
- 8 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.
- 9 Continue to push the cable into the sewer outlet or drainpipe using a gloved hand. Do not use a woolen glove. After feeding the cable in by hand, lock the thumbscrew onto the cable before squeezing the trigger again.
- 10 Once the obstruction has been cleared, the line should be washed through with a hose or power washer.
- 11 To retrieve the cable, first stop the machine. Then, feed all the cable into the drum, cleaning it in cold water as you go.
- 12 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, stop the motor and reverse (REV) the drill 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 inlet 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 cable motor.
- When using an extension cords outdoors, use only those recommended for outdoor use and ensure that the cable reel doesn't sit in water.

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## MACHINE MAINTENANCE

**WARNING:** Never carry out maintenance with the power on.

- 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.

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## TO REMOVE DRUM

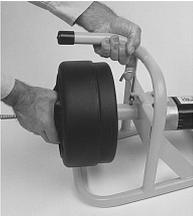


Figure 3

- The release hook is situated immediately behind the drum. Pull hook upward and pull drum forward to remove it from the spindle. (see Fig. 3)
- TO REPLACE the drum, reverse the steps above.

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## INSTALLING REPLACEMENT CABLE

- Loosen chuck and remove the existing cable from the machine.
- Uncoil the new cable completely Carefully insert the cable into the drum and continue doing so until installation is complete.
- Finally, tighten the chuck. (see Fig. 4)



Figure 4

## INSTALLING REPLACEMENT CABLE

- Loosen thumbscrew and remove the existing cable from the machine.
- Uncoil the new cable completely. Carefully insert the cable into the drum and continue doing so until installation is complete.
- Finally, tighten the thumbscrew. (see Fig. 5)

## SPECIAL APPLICATIONS



Figure 5

### 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 release the trigger and take your foot off the foot pedal to allow the machine to come to a complete stop. Fully tighten the thumbscrew and turn the drill switch to the (REV) position and depress the foot pedal. Grasp the cable with a gloved hand and pull it while jogging the trigger. When the cable is dislodged, place the drill motor switch in the forward (FOR) position, loosen the thumbscrew, and follow normal operating procedure.

### 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.

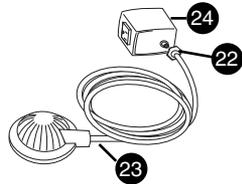
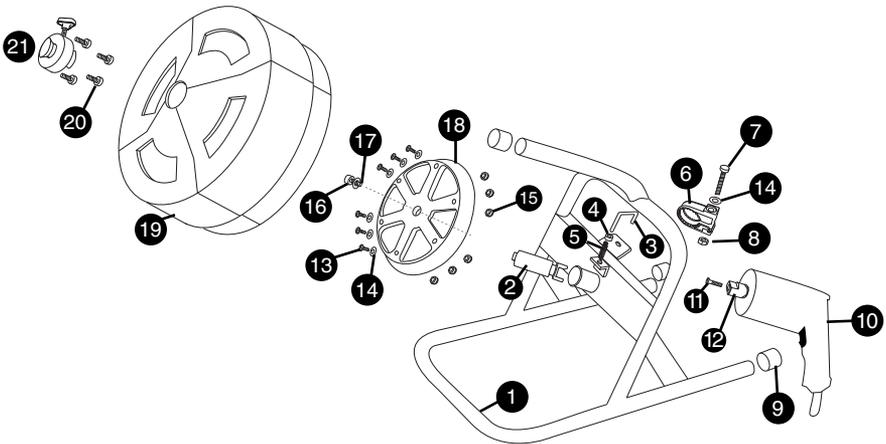
## WORK AREA ENVIRONMENT

- 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 drill switch is in the OFF position when starting.
- Keep cord from heat, oil, and sharp edges
- Check for damaged parts before using machine: 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:

- Defective drill switch should only be replaced by an authorized service center.

# PARTS



REF#	PART NO.	DESCRIPTION
1	850-990210	Frame Assembly
2	401-990273	Drum Drive
3	250-250005	Drum Release Pin
4	401-990025	Drum Release Pin - Collar
5	650-990440	Drum Release Pin - Spring
6	401-725550	Plastic Collar
7	350-142024	Hex Head Bolt
8	350-142002	Hex Nut
9	450-043870	End Caps (3)
10	401-725491	Drill
11	350-725496	Left Hand Screw
12	401-990274	Drill Drive
13	350-252558	Phillips Pan Mach Screw (6)
14	350-313125	Flat Washer (7)
15	350-142040	Lock Nut (6)
16	350-375161	Socket Head Screw (1)
17	350-375109	Lock Washer (1)
18	750-980271	Hub Casting
19	400-990200	Drum
20	350-142004	Large Button Head Screw (4)
21	850-990000	Nose Cone Assembly
22	401-998003	Plastic Lock Nut
23	401-990446	Air Actuated Foot Switch
24	401-998001	Air Actuated Press Box



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