

# Cable Drum Machine

## Operation Manual

# 10 SERIES

Cleans 1 1/4" to 3" lines up to 50'

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



Keyless Chuck



**"WARNING** - To reduce the risk of injury, user must read and understand instruction manual. Always wear eye protection, electrically insulated boots and gloves.

Use only with GFCI protected outlet or adapter. Do not immerse power unit, cord or plug junction in water. When servicing, use only identical replacement parts. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury. Save these instructions."



# GENERAL POWER TOOL SAFETY WARNINGS



## Warning

Read all safety warnings and all instructions.

*Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.*

Save all warnings and instructions for future reference.

### 1 Work Area Safety

- a) **Keep work area clean and well lit.** *Cluttered or dark areas invite accidents.*
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** *Power tools create sparks which may ignite the dust or fumes.*
- c) **Keep children and bystanders away while operating a power tool.** *Distractions can cause you to lose control.*

### 2 Electrical Safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** *Unmodified plugs and matching outlets will reduce risk of electric shock.*
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** *There is an increased risk of electric shock if your body is earthed or grounded.*
- c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** *Damaged or entangled cords increase the risk of electric shock.*
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** *Use of a cord suitable for outdoor use reduces the risk of electric shock.*
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

**Note:** The term "residual current device (RCD)" may be replaced by the term "ground fault circuit interrupter (GFCI)" or "earth leakage circuit breaker (ELCB)".

### 3 Personal Safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** *A moment of inattention while operating power tools may result in serious personal injury.*
- b) **Use personal protective equipment. Always wear eye protection.** *Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.*
- c) **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** *Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.*

## **GENERAL POWER TOOL SAFETY WARNINGS (CON'T.)**

- d) **Remove any adjusting key or wrench before turning the power tool on.** *A wrench or a key left attached to a rotating part of the power tool may result in personal injury.*
- e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewellery or long hair can be caught in moving parts.*
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** *Use of dust collection can reduce dust-related hazards.*

### **4 Power Tool Use and Care**

- a) **Do not force the power tool. Use the correct power tool for your application.** *The correct power tool will do the job better and safer at the rate for which it was designed.*
- b) **Do not use the power tool if the switch does not turn it on and off.** *Any power tool that cannot be controlled with the switch is dangerous and must be repaired.*
- c) **Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** *Such preventive safety measures reduce the risk of starting the power tool accidentally.*
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** *Power tools are dangerous in the hands of untrained users.*
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** *Many accidents are caused by poorly maintained power tools.*
- f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g) **Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed.** *Use of the power tool for operations different from those intended could result in a hazardous situation.*

### **5 Service**

- a) **Have your power tool serviced by a qualified repair person using only identical replacement parts.** *This will ensure that the safety of the power tool is maintained.*

# GENERAL SAFETY

## **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.

# WORK AREA

- Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

# ELECTRIC SAFETY

- Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.
- Double Insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way. Double Insulation eliminates the need for a three wire grounded power cord and grounded power supply system. (Applicable only to Class II tools.)
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.
- Don't expose power tools to rain or wet conditions. Water entering a power tool will increase risk of electric shock.
- Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W." These cords are rated for outdoor use and reduce the risk of electric shock.

# PERSONAL SAFETY

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.
- Avoid accidental starting. Be sure switch is off before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents.
- Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

## **PERSONAL SAFETY** CONT.

- Do not overreach. Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

## **TOOL USE AND CARE**

- Use clamps or other practical way to secure and support the work piece to a stable platform. Holding the work by hand or against your body is unstable and may lead to loss of control.
- Do not force tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
- Do not use tool if switch does not turn it on or off. Any tool that can not be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventative safety measures reduce the risk of starting the tool accidentally.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool, may become hazardous when used on another tool.

## **SERVICE**

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual. Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

# OPERATING INSTRUCTIONS

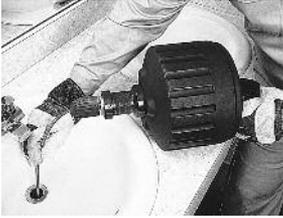


Figure 1

**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 chuck with the chuck key, pull sufficient cable out of the drum and place the end of the cable as far into the drain as possible.
- 3 Plug the power cable into the electrical socket and switch the power on.
- 4 Switch the drill direction to forward (FOR) and fully depress the trigger. The cable will begin to turn. Keep one hand on cable when it is rotating.
- 5 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.
- 6 Once the obstruction has been cleared, the line should be washed through with a hose or power washer.

**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.*

- 7 To retrieve the cable, pull one or two feet of cable from the inlet (drain or stack) while running the machine in forward (FOR) position and push the cable into the drum. Continue this procedure until the end of the cable is just inside the inlet.
- 8 Turn off the machine, remove the remaining cable from the inlet and hand feed it back into the drum. Finally, tighten the chuck (hand tight).

**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.*

## TO REMOVE DRUM



Figure 2

- Hold the inner rotating drum steady in one hand and turn the chuck counter-clockwise and remove. (see Fig. 2)
- Loosen the allen screw and remove the collar.
- Slide the drum shield assembly off.
- TO REPLACE the drum, reverse the steps above.

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## INSTALLING REPLACEMENT CABLE



Figure 3

- 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.3)

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

### Lubrication

Grease all exposed and moving parts.

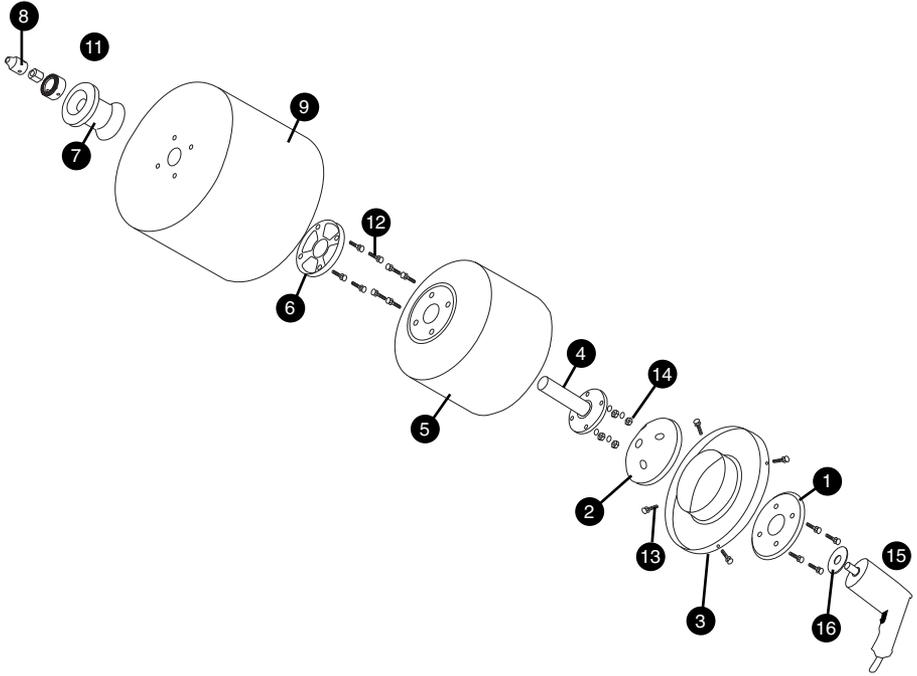
### Storage

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.

# PARTS



REF#	PART NO.	DESCRIPTION
1	400-990121	Drill Mount Assembly
2	400-990122	Drum Drive Diverter Cone
3	401-990122	Drum Back
4	401-990125	Shaft Extension-Assembly
5	401-990121	Metal Drum
6	400-990123	Retaining Ring-Bushing Washer (2)
7	400-990124	Hand Grip
8	401-990123	Adapter (Not Shown)
9	400-990100	Outer Shield
10	401-724505	Keyless Chuck (Not Shown)
11	401-991416	Collar
12	350-142036	Large Socket Head Cap Screw (12)
13	350-142032	Large Sheet Metal Screw (4)
14	350-142001	Flange Nut (4)
15	401-725491	Drill
16	350-375010	Washer



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