



1200W Master Drain Cleaner

User Manual

[Revision 2.0 October 2018]

READ THIS MANUAL CAREFULLY BEFORE USE – FAILURE TO DO SO MAY RESULT IN INJURY, PROPERTY DAMAGE AND MAY VOID WARRANTY. • KEEP THIS MANUAL FOR FUTURE REFERENCE. • Products covered by this manual may vary in appearance, assembly, inclusions, specifications, description and packaging.

Table of Contents

Working Area and Safety	1
Electrical Safety.....	1
Personal Safety	1
Drain Cleaner Use and Care	2
Cable Safety	2
Tool Service	2
Ground Fault Circuit Interrupter (GFCI)	3
Operating Instructions	3
Maintenance	5
Cable Maintenance	5
Feed Maintenance.....	5
Dirt Accumulation.....	5
Damaged Roller.....	5
Tangled Cable.....	5
What Do I Do?	6
If cable gets caught in the line	6
What do I do if the cable tangles in the drum?	6
How do I remove the drum from the cleaner?	6
How to install 1/2" & 3/8" cables in the drum	6
Troubleshooting Guide	7
Specifications.....	8
Cable Applications.....	9

Working Area and Safety

- Keep the working area well lit, neat and clean.
- Never operate machines in areas with flammable liquids, gases, or dust. Power tools create sparks which may ignite dust or fumes.
- Keep bystanders, children, and visitors away while operating the drain cleaner. Distractions by others may lead to losing control.
- Be aware of the ratings and specifications when using the drain cleaner.

Electrical Safety

USE A STRAIGHT ELECTRIC PLUG, SO THAT THE OPERATOR HAS THE ABILITY TO CUT THE POWER OFF IMMEDIATELY BY PULLING THE PLUG OUT OF THE OUTLET.

- Grounded tools must be plugged into a properly installed and grounded outlet, which is in accordance with all safety codes and ordinances.
- Never modify the plug in any manner.
- Do not remove the grounding pin.
- Never use any adapter plugs.
- Use well-grounded 3-pin plugs.
- Do not let your body get in contact with any grounded surfaces such as radiators, ranges pipes, and refrigerators. It is very dangerous to get electric shock when your body is grounded.
- Never leave the drain cleaner in rain or wet conditions. Do not operate the cleaner if it becomes wet.
- Never touch plugs or tools with wet hands. Keep all electrical connectors dry and off ground to reduce risk of electric shock.
- Never abuse the electrical cord.
- Do not use the cord to pull the plug from an outlet or use the cord to carry the machine.
- Keep cords away from heat, oil, sharp edges or moving parts.
- Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- When working outside, use an outdoor extension cord which is suitable for the drain cleaner.

Personal Safety

- Be alert at all times. Keep good judgment whenever the cleaner is in operation. Never operate the cleaner under the influence of fatigue, drugs, alcohol or medications. Do not wear loose clothes or jewellery. Keep your hair, clothes and gloves away from moving parts.
- Wear appropriate safety gear including rubber-soled non-slip shoes, safety glasses and leather gloves.
- Avoid accidental starting. Make sure the switch is off before plugging in. Plugging in tools that have the switch on invites accidents.
- Make sure adjusting keys or switches be removed before turning the tool on. A wrench or key that is thrown from a rotating part of the tool can result in serious personal injury or death.

1200W Master Drain Cleaner

- Keep proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.
- Be cautious around cleaning chemicals. Do not let the chemicals get directly in contact with the skin and eyes. These chemicals can cause serious burns to skins and eyes as well as damage to the cable.
- As much as possible, have a second person supervise you when working in a narrow space such as boiler rooms or inside pipes.
- Do not operate this machine if you are not trained to do so. Using the cleaner without proper training can lead to severe injury.
- Only use this tool in the application for which it was designed. Modifying the drain cleaner for other uses may increase risk of injury.

Drain Cleaner Use and Care

- Do not use the cleaner if the switch does not turn on or off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making any adjustments or maintenance. Preventative safety measures reduce the risk of starting the cleaner accidentally.
- Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the cleaner's operation. If it is damaged, have the tool serviced before use. Many accidents are caused by poorly maintained tools.
- Only use accessories that are recommended by the manufacturer. Accessories that may be suitable for one tool may become hazardous when used on another tool.
- Keep handles dry and clean and free from oil and grease.

Cable Safety

- Never grasp a rotating cable with a rag or cloth glove, which could be tangled around the cable and cause serious injury.
- Do not operate machine in reverse (REV). Operating machine in reverse can result in cable damage and is used only to back cutting tool out of an obstruction.
- Do not overstress cables. Overstressing cables because of an obstruction may cause twisting, kinking, or breaking of the cable.
- Keep a gloved hand on the cable for control when machine is running.
- Before starting each job, pull the cable out of the drum to make sure the cable in the drum is not broken or kinked.
- Always replace worn (kinked or broken) cables with genuine replacement cables.
- Position the cleaner within two feet of drain operation. Greater distances can result in cable twisting or kinking.

Tool Service

- Tool service must be performed only by a qualified repair personnel.
- When servicing a tool, use only identical replacement parts. Use of unauthorised parts may create a risk of electric shock or injury.

Ground Fault Circuit Interrupter (GFCI)

Your machine is equipped with a ground fault circuit interrupter (GFCI), which protects you against shock if short circuiting should occur. Check that receptacle is properly grounded. Test the GFCI before each use.

1. Plug it into a receptacle with the machine-specified voltage. If the indicator light turns on, this means the machine is powered. If the indicator light does not turn on then push the reset button.
2. Press the test button for the indicator light to go out. This will mean that the power to the cleaner has been cut off.
3. If the light does not go out when the test button is pushed, the cleaner should not be used until proper repairs can be made.
4. Push reset button after testing to restore power. If the machine doesn't start when the reset button is depressed or if the operator experiences a mild shock, do not use the machine! Take the machine to a repair centre or return it to the factory for repairs.

 **The section of cord between the wall plug and the GFCI is not in the protected circuit.**

Operating Instructions

1. Place the cleaner approximately two feet away from the drain opening. Be sure that the guide tube is in place. If you can't place the machine close to the drain opening, run the cable through the optional Guide Tube Extension (GTE) or a metal guide tube to prevent cable whipping. On manual feed machines, always keep a gloved hand on the cable.
2. Push cable through machine core axle and select the proper cutters (Refer to cutter applications). At the beginning, use arrow-type cutters or cone-type cutters. After the drain is open, use larger cutters that can scrape off blockage on the inside wall of pipes so that you receive a full clean. Connect the selected cutter to the cable. Be sure that the two are securely attached to prevent disconnection.
3. Put the cleaner in the appropriate position and insert the cutters and cable into the pipe.
4. Leave 2 to 4 metres of cable behind the machine and disconnect the extra for future use.
5. Insert the cable in line and push it in with your hand as much as possible.

LOWER AUTO FEED PIN AND THE AUTO FEEDER WILL START TO WORK. IF YOU LIFT THE FEED LEVER, THE AUTO FEEDER WILL STOP WORKING.

When the auto feeder needs to be adjusted, please send it to a specialty technician.

6. Choose a cable that is 16mm in diameter.

Take off the cable holder and insert the cable from the backend of the machine through to the core axle.

Leave a section of cable between the drain opening and machine. When the cable is curved before the pipe opening, switch the lever into a forward position and start the machine.

Hold down feed lever to propel the cable into the drain. An auto feeder can also be used to feed the cable into a drain.

Immediately lift the auto feeder lever when the connection point is reached.

Hold down the clutch handle to make the cable rotate. The cable can wind in the drain by itself. Do not leave the cable too long between the drain and the machine to prevent the cable from twisting, kinking or breaking.



• **Machine can start without the cable moving.** • **Pushing the clutch too slowly may cause the driving gear to not be able to access the cable. This can result in gear wearing. Clutch positions can be changed often. Reversing the clutch to its original position makes it release the cable right away. This action will not cause the cable to be entangled or broken.** • **If you are not familiar with the operation of the auto feeder, please do not use it. When using the auto feeder, make sure that the cable connector is not within a close vicinity. When there is bending or blocking, do not use the auto feeder.** • **Use an appropriate amount of force to hold down the clutch. This will be just enough for the clutch to lock onto the cable. Never use a tool to do this.**

7. Once the cable has entered the line completely, release the clutch. Pull a short section of cable out. Push the clutch to a **forward** position to drive the cable in.
 8. Release the clutch and repeat the above steps until the cutter reaches the obstruction.
 9. Meanwhile, add cable when necessary. When the obstruction is encountered, slow down the cable feeding.
 10. Its speed will be determined by the sharpness of the cutter and the characteristics of the obstruction.
 11. If the cutter is entangled by an obstruction, release the clutch and stop the cleaner.
Put the switch to **reverse**.
 12. Move the clutch to a forward position till the cutter can be released from the obstruction. Then quickly release the clutch.
-



The reverse position can only be used to release the cutter from the obstruction. Other operations may break the cable.

13. After the cutter is released from the obstruction, shut down the power and turn the switch to **forward** after the motor has stopped.
 14. After the drain is cleaned, put the switch to **forward** and pull the cable out of the drain.
-



Turning the cable clockwise can quickly pull the cable out of the pipe till the cable is curved in front of the machine.

15. When the curve is formed, release the clutch and push the extra cable back into the machine.
 16. Disassemble the cable behind the machine.
 17. Repeat the above steps till all cable is pulled out of the pipe.
 18. After draining is through, the machine may be kept running for few more minutes for the cable to remove blockage on the inside wall. Add water at the same time.
 19. After the machine is stopped, pull the cable out from the drain. Clean the cable and apply an anti-corrosive agent on it.
Do not let the dirty water that comes out with the cable to enter the cleaner.
 20. After use, leave the machine running for 2 to 3 minutes. Inject anti-corrosion oil through the injection hole (20# oil) to prevent the cable from corrosion.
 21. Turn the switch to "Off" and pull the power cord out.
-



• **Clean and lubricate the clutch driving gear after each job.** • **Do not disassemble or repair the cleaner if you are not a professional. When parts need to be changed, use replacements from the original manufacturer.** • **Make sure the power to the cleaner has been turned off before you make any adjustments.**

Maintenance

To keep your drain cleaner operating smoothly, it is essential that all bearings and distributor tube bushings are lubricated. Oiling moving parts are particularly important where the cleaner comes in contact with sand, grit and other abrasive material.

Cable Maintenance

To get maximum service from your cables, be sure that they are clean and well oiled.

It is highly recommended that you periodically pour oil directly into the drum. This will ensure the cables receive complete lubrication as well be disinfected and deodorised at the same time. This not only provides running lubrication but greatly extends the life of the cables as well.

Feed Maintenance

Keep the feed free of excessive soil and grit. It is recommended that the feed be flushed with fresh water followed by a light oiling of moving parts.

No disassembly is normally required. Failure to feed can usually be traced to the following possibilities:

Dirt Accumulation

Over time, dirt can harden enough to stop roller rotation.

Flushing with water followed by liberal oiling can usually restore function.

If disassembly is required, proceed as follows:

1. Remove the feed tension knob, springs and spring plunger. Note the positioning of these parts to ease re-assembly. The top roller can now be removed.
2. Remove the snap rings and thrust washers from the bottom housing cylinders. The bottom rollers can now be removed.
3. Re-assembly is done in reverse order.

Damaged Roller

Excessive use may wear a roller to the point of failure. It is recommended that all three rollers be replaced at the same time (Cat # PO-MR-703).

Tangled Cable

If a cable loops over itself in the drum, it will not feed properly.

Remove and reload the cable by hand to restore function. If the cable kinks, this is the result of too much pressure or the wrong size cable usage for the line.

Do not force it. Let the cutter do the work.

What Do I Do?

If cable gets caught in the line

The motor can be reversed to free cable if it gets caught in the line.

1. Move the toggle switch on motor to reverse position.
2. Pull the cable out of the drain while the drum is rotating in reverse.
3. When the cable has been freed, move the toggle switch to the forward position.

Do not run the motor in reverse for more than a few seconds at a time since this could cause tangling in the drum or kinking.

What do I do if the cable tangles in the drum?

This is caused by using too much pressure when feeding the cable or by feeding the cable while running the machine in reverse. To untangle the cable, rotate the drum in the opposite direction. This will usually get the cable to lie in the drum properly.

If cable has become severely tangled, which should not occur when used properly, it can be straightened out by removing the distributing tube from the drum. To do this:

1. Loosen the four bolts that hold the distributing tube cone on the front of the drum.
2. Pull the cone and distributor tube forward, then pull the tangled portion of cable out of the drum.
3. After the cable has been straightened out, slide the distributor tube and cone back along the cable until it can be repositioned and bolted to the front of the drum.
4. Push the excess cable back into the drum.

How do I remove the drum from the cleaner?

1. Loosen the front post knob and move the power cable feed out of the way.
2. Push down on the spring-loaded motor and slide the V-Belt off the back of the drum.
3. Reach behind the drum and locate the drum-retaining latch. Pull the latch to release the drum shaft, then pull the drum forward off of the machine.
4. To install the drum, simply slide the drum onto cleaner. The latch will lock automatically.
5. Remove the belt guard by loosening the retaining knob on top. Position the V-Belt around the drum, then press down on the motor and slip the V-belt onto the pulley. Be sure to reattach the belt guard.
6. Reposition the power cable feed and tighten the knob at the base of the front post.

How to install 1/2" & 3/8" cables in the drum

To install the cables in the drum, simply connect the male end of the cable to the drum-connecting cable, which is already attached to the drum. Then remove the V-Belt and turn the drum clockwise, while pushing the cable into the drum.

The cable should lay in the drum in a clockwise direction.

Troubleshooting Guide

Case	Reason	Resolution
Main shaft does not turn after starting.	Power cord is not connected properly.	Connect the power cord.
	Fuse is burned out.	Replace the fuse.
	The control button is switched off.	Switch on the control button
After starting, main shaft does not turn and noise is heard.	Main shaft is rusted.	Turn the power off immediately. Open the machine cover to remove rust and lubricate.
After starting, the cable doesn't turn when the clutch is held down.	Main shaft is rusted.	Turn the power off immediately. Open the machine cover to remove rust and lubricate.
	Clutch is worn or loose.	Change the clutch.
	Clutch is not held down in position.	Lock the cable tighter by holding down the clutch harder.
The main machine surface has a higher temperature than normal.	The temperature around the machine is particularly high.	Stop usage and wait for cooler temperatures.
	The cleaner has been used for too long.	Stop usage and take a break.
The cable turns but does not advance.	You are not using an auto-feeding machine.	Choose an auto-feeding cleaner.
The cable and cutter are stuck.	The obstruction is too hard.	Slowly pull them out by pushing, pulling and turning the cable.
	The pipe has too many bends.	Slowly pull them out by pushing, pulling and turning the cable.
		Do not force it when pulling and pushing. Do not use reverse for too long.
Having difficulty moving the cable back and forward.	There are too many bends.	Increase the force of the pushing and pulling.
		Change the direction and angle of the cable.
		Use the olive head cutter and a more flexible cable.
The cable is broken in the pipe.	Improper operation.	Use a retrievable screw cutter to pull the cable out.

Specifications

Power Supply	240V 50Hz
Max. Speed	1400rpm
Max. Power Output	750-1200 (Peak)
Heavy Duty Coil	20m x 30mm
Working Heads	7 special heads
Main Body	Aluminium Alloy
Weight without Cable	45kg

Cable Applications

Cable Size	Pipe Size (inch)	Typical Applications
1-1/4"	3" to 8"	Used to clean all types of major drains.

Cutter	Cat. #	Typical Applications
Side Cutter Blade	SCB	Starting tool, ideal for cutting and scraping
4-Blades Cutter	BC4	Used to clean pipes that are clogged with mud.
Funnel Boring Head	FBH	For second-turn cleaning, used for cleaning the remains after the initial clean.
Cork Screw Head	CSH	Used to check the location of blockages and penetrate the blockage
Flat Drill Head	FDH	Finishing tool, for scraping the inside edges of a pipe.



Some experts believe that the incorrect or prolonged use of almost any product may cause serious injury or death. To help reduce your risk of serious injury or death, refer to the information below. For more information, see www.datastreamserver.com/safety

- Consult all documentation, packaging and product labelling before use. Note that some products feature documentation available online. It is recommended to print and retain the documentation.
- Before each use, check the product for loose/broken/damaged/missing parts, wear or leaks (if applicable). Never use a product with loose/broken/damaged/missing parts, wear or leaks.
- Products must be inspected and serviced (if applicable) by a qualified technician every 6 months. This is based on average residential use by persons of average size and strength, and on a property of average metropolitan size. Use beyond these recommendations may require more frequent inspections/servicing.
- Ensure that all users of the product have completed a suitable industry recognised training course before being allowed access to the product.
- The product has been supplied by a general merchandise retailer that may not be familiar with your specific application or description of application. Be sure to attain third-party approval from a qualified specialist for your application before use, regardless of any assurances from the retailer or its representatives.
- This product is not intended for use where fail-safe operation is required. As with any product (for example, automobile, computer, toaster), there is the possibility of technical issues that may require the repair or replacement of parts, or the product itself. If the possibility of such failure and the associated time it may take to rectify could in any way inconvenience the user, business or employee, or financially affect the user, business or employee, then the product is not suitable for your requirements. This product is not intended for use where incorrect operation or a failure of any kind, including but not limited to, a condition requiring product return, replacement, parts replacement or service by a technician may cause financial loss, loss of employee time or an inconvenience requiring compensation.
- If this product has been purchased in error when considering the information presented here, contact the retailer directly for details of their returns policy, if required.

