

K-750

Drain Cleaning Machine

OPERATOR'S
MANUAL



WARNING!

Read this Operator's Manual carefully before using this tool. Failure to understand and follow the contents of this manual may result in electrical shock, fire and/or serious personal injury.

RIDGID®

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K-750 Drain Cleaning Machine



K-750 Drain Cleaning Machine	
Record Serial Number below and retain product serial number which is located on nameplate.	
Serial No.	

General Safety Information

WARNING! Read and understand all instructions. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious personal injury.

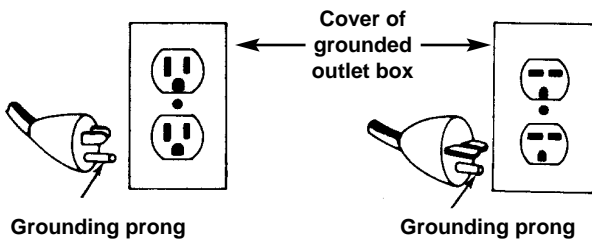
SAVE THESE INSTRUCTIONS!

Work Area Safety

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

Electrical 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 tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.



- **Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electrical shock if your body is grounded.
- **Don't expose electrical tools to rain or wet conditions.** Water entering a tool will increase the risk of electrical shock.
- **Do not abuse 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 electrical shock.

- **When operating a tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electrical shock.
- **Use only three-wire extension cords which have three-prong grounding plugs and three-pole receptacles which accept the tool's plug.** Use of other extension cords will not ground the tool and increase the risk of electrical shock.
- **Use proper extension cords.** (See chart.) Insufficient conductor size will cause excessive voltage drop and loss of power.

Minimum Wire Gauge for Extension Cord			
Nameplate Amps	Total Length (in feet)		
	0 – 25	26 – 50	51 – 100
0 – 6	18 AWG	16 AWG	16 AWG
6 – 10	18 AWG	16 AWG	14 AWG
10 – 12	16 AWG	16 AWG	14 AWG
12 – 16	14 AWG	12 AWG	NOT RECOMMENDED

- **Before using, test the Ground Fault Circuit Interrupter (GFCI) provided with the power cord to insure it is operating correctly.** GFCI reduces the risk of electrical shock.
- **Extension cords are not recommended unless they are plugged into a Ground Fault Circuit Interrupter (GFCI) found in circuit boxes or outlet receptacles.** The GFCI on the machine power cord will not prevent electrical shock from the extension cords.
- **Keep all electrical connections dry and off the ground. Do not touch plugs or tool with wet hands.** Reduces the risk of electrical 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 medications.** 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 tools in that have the switch ON invites accidents.
- **Remove adjusting keys or switches 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.

- **Do not over-reach. 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 clamp or other practical way to secure and support the workpiece 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 same rate for which it is designed.
- **Do not use tool if switch does not turn it 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, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- **Store idle tools out of the 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.
- **Keep handles dry and clean; free from oil and grease.** Allows for better control of the tool.

Service

- **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified repair personnel could result in injury.
- **When servicing a tool, use only identical replace-**

ment 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 electrical shock or injury.

Specific Safety Information

▲ WARNING

Read this operator's manual carefully before using the RIDGID K-750 Drain Cleaner. Failure to understand and follow the contents of this manual may result in electrical shock, fire and/or severe personal injury.

Drain Cleaner Safety

- **Wear gloves provided with the machine. Never grasp a rotating cable with a rag or loose fitting cloth glove.** Could become wrapped around the cable and cause serious injury.
- **Never operate machine with belt guard removed.** Fingers can be caught between the belt and pulley.
- **Do not overstress cables. Keep one hand on the cable for control when the machine is running.** Overstressing cables may cause twisting or kinking and result in serious injury.
- **Position machine within three feet of inlet. Use Front Guide Hose or properly support exposed cable when it is difficult to locate the machine near the access or clean out.** Greater distances can result in cable twisting or kinking.
- **Machine is designed for one person operation.** Operator must control foot switch and cable.
- **Use foot switch to operate machine while maintaining good footing and balance. Do not operate machine in (REV) reverse.** Operating machine in reverse can result in cable damage and is used only to back tool out of an obstruction.
- **Keep hands away from rotating drum and guide tube. Do not reach into drum unless machine is unplugged.** Hand may be caught in the moving parts resulting in serious injury.
- **Use kickstand during operation.** The kickstand stabilizes machine to prevent tipping.
- **Be careful when cleaning drains where cleaning compounds have been used. Avoid direct contact with skin and eyes.** Serious burns can result from some drain cleaning compounds.

- **Do not operate machine if operator or machine is standing in water.** Will increase the risk of electrical shock.
- **Wear safety glasses and rubber soled, non-slip shoes.** Use of this safety equipment may prevent serious injury.
- **Use the K-750 to only clean drain lines. Follow instructions on the use of the machine.** Other uses or modifying the drain cleaner for other applications may increase the risk of injury.

Description, Specifications and Standard Equipment

Description

The RIDGID K-750 Drain Cleaning Machine will clean drain lines 3" to 10" in diameter and 200 feet in length depending on size of cable. Corrosion resistant cable drum holds 100 feet of 3/4" diameter cable or 125 feet of 5/8" diameter cable. Cable spins at 200 RPM.

The drum is belt-driven by a 1/2 HP electric motor that has a grounded electrical system. An integral Ground Fault Interrupter (GFCI) is built into the line cord. A "kick-stand" base is provided for machine stability during operation. A pneumatic foot actuator provides ON/OFF control of the motor.

The cable has a quick change coupling system for connecting or disconnecting tools. An optional power feed advances or retracts the cable at a rate up to 20 feet per minute. A manual feed option is also available.

Specifications

Line CapacityDepends on choice of cable. Refer to the following chart for recommendations.

Cable Size and Type	Recommended Line Size and Reach	
	Line Size	Reach
All 5/8" Cable	3" to 4"	200'
3/4" Hollow Core	3" to 6"	200'
3/4" Inner Core	4" to 10"	200'

NOTE! Inner-Core Cable is not recommended for use through P-Traps and severe bends in lines smaller than 4".

Optional 24" flexible trap leaders can be added to aid users through traps and tight clean-outs.

Drum Capacity.....100' of 3/4" Cable or
125' of 5/8" Cable

Motor115V, Reversible, Single
Phase, AC (60 Hz)

Rating.....1/2 HP @ 1725 RPM

Amps.....6.5

Weight (Machine Only)..95 lbs.

Dimensions

Length.....26"

Width.....21"

Height43"

Standard Equipment

Machine Options - Autofeed

Catalog No.		Model No.	Description	Weight	
115V-60Hz	230V-50Hz			lb.	kg.
41977	44202	K-750	Machine with Gloves and Autofeed - 3/4" Pigtail	114	51.9
51402	51407	K-750	Machine with Gloves and Autofeed - 5/8" Pigtail	113	51.3
42002	44207	K-750 w/C-75	Machine with One Pair of Gloves, Autofeed, Standard 3/4" Tool Set, and C-75, 75' x 3/4" Cable	206	93.6
42007	44212	K-750 w/C-100	Machine with One Pair of Gloves, Autofeed, Standard 3/4" Tool Set, and C-100, 100' x 3/4" Cable	234	106.3
42012	44217	K-750 w/C-27	Machine with One Pair of Gloves, Autofeed, Standard 5/8" Tool Set, and C-27, 75' x 5/8" Cable	182	82.7
47047	—	K-750 w/C-24	Machine with One Pair of Gloves, Autofeed, Standard 5/8" Tool Set, and C-24, 100' x 5/8" Cable		

Machine Options - Manual Feed

51342	—	K-750	Machine with One Pair of Gloves	104	47.3
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Standard 3/4" Tool Set Includes:

- T-406 Spear Blade Cutter
- T-407 Retrieving Auger
- T-411 2" Cutter
- T-413 3" Cutter
- T-414 4" Cutter

Standard 5/8" Tool Set Includes:

- T-403 3" P-Trap Cutter
- T-406 Spear Blade Cutter
- T-413 3" Cutter
- T-407 Retrieving Auger
- T-411 2" Cutter

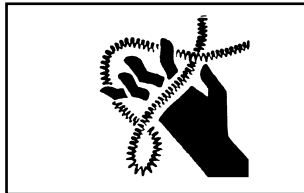




Figure 1 – K-750 with Power Feed and C-100 Cable

Machine Assembly

▲ WARNING



To prevent serious injury, proper assembly of the Drain Cleaner is required. The following procedures should be followed:

Instructions For Mounting Handles and Belt Guard

Handles – Assemble handles to machine frame and secure with two (2) belt guard screws.

Belt Guard – Check the belt guard to ensure that it is approximately 1/4" from the drum. Reposition guard if necessary and tighten bolts (Figure 3).

▲ WARNING Gap between belt guard and drum should not exceed 1/2" to prevent fingers being caught between belt and pulley. Do not operate machine without belt guard.

Instructions For Installing Cable

▲ CAUTION Do not remove bands or staples from cable shipping carton. Cable is under tension and will whip causing injury.

Retrieve end of cable through the center hole of carton and remove enough cable to connect with drum pigtail. Connect to pigtail by sliding cable couplings together and turning screwdriver slot in coupler 180°. Couplings are in locked position when hash mark is on opposite side of screwdriver slot as shown in Figure 2. Manually feed cable into drum.

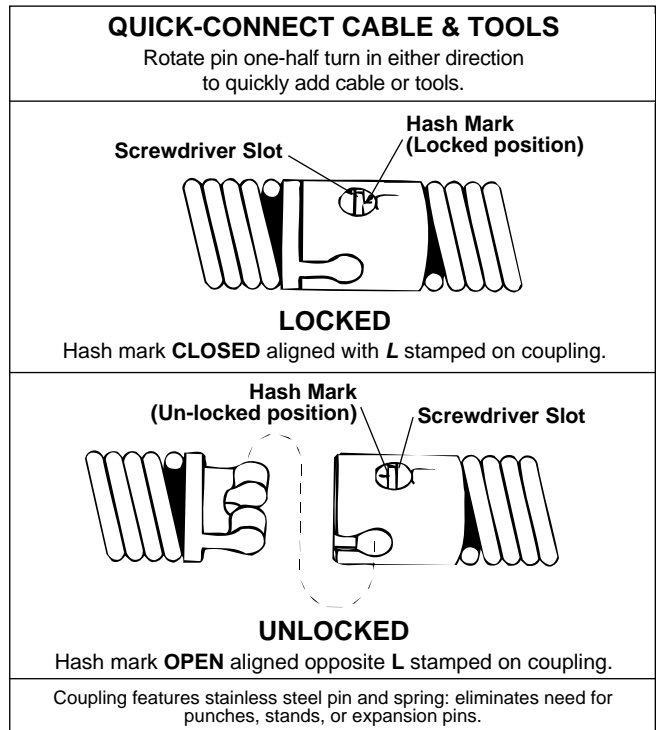
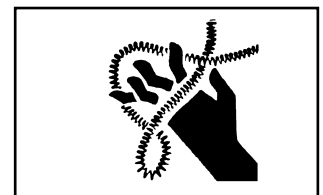


Figure 2 – Disconnecting/Connecting Cable or Tool

Machine Inspection

▲ WARNING



To prevent serious injury, inspect your Drain Cleaning Machine. The following inspection procedures should be performed before each use.

1. Make sure the Drain Cleaning Machine is unplugged and the directional switch is set to the **OFF** position (Figure 3).
2. Make sure the foot switch is present and attached to the Drain Cleaning Machine (Figure 3). Do not operate the machine without a foot switch.
3. Inspect the power cord, Ground Fault Circuit Interrupter (GFCI) and plug for damage. If the plug has

been modified, is missing the grounding prong or if the cord is damaged, do not use the Drain Cleaning Machine until the cord has been replaced.

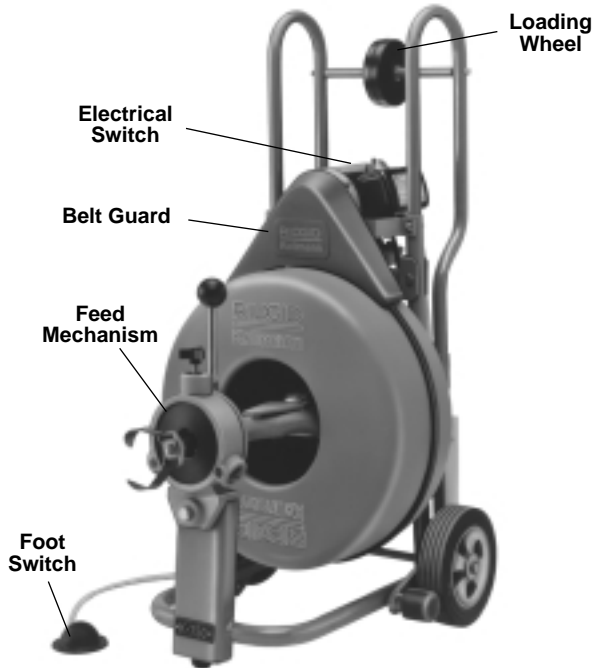


Figure 3 – K-750 Drain Cleaning Machine with power feed

4. Inspect the Drain Cleaning Machine for any broken, missing, misaligned or binding parts as well as any other conditions which may affect the safe and normal operation of the machine. If any of these conditions are present, do not use the Drain Cleaning Machine until any problem has been repaired.
5. Lubricate the Drain Cleaning Machine, if necessary, according to the Maintenance Instructions.
6. Use tools and accessories that are designed for your drain cleaner and meet the needs of your application. The correct tools and accessories allow you to do the job successfully and safely. Accessories suitable for use with other equipment may be hazardous when used with this drain cleaner.
7. Clean any oil, grease or dirt from all equipment handles and controls. This reduces the risk of injury due to a tool or control slipping from your grip.
8. Inspect the cutting edges of your tools. If necessary, have them sharpened or replaced prior to using the Drain Cleaning Machine. Dull or damaged cutting tools can lead to binding and cable breakage.
9. Inspect cables and couplings for wear and damage. Cables should be replaced when they become severely worn or corroded. A worn cable can be identified when the outside coils become flat.

⚠ WARNING Worn or damaged cables can break causing serious injury.

Machine Set-Up



To prevent serious injury, proper set-up of the machine and work area is required. The following procedures should be followed to set-up the machine:

1. Check work area for:
 - Adequate lighting
 - Grounded electrical outlet
 - Clear path to the electrical outlet that does not contain any sources of heat or oil, sharp edges or moving parts that may damage electrical cord.
 - Dry place for machine and operator. Do not use the machine while standing in water.
 - Flammable liquids, vapors or dust that may ignite.
2. Position the Drain Cleaning Machine within 3' of sewer inlet.

⚠ WARNING If sewer inlet is greater than 3' from the front of the machine, the cable will have a greater tendency to twist or kink. Use a front guide hose or properly support exposed cable.

3. Tilt machine forward and use your foot to extend "kickstands" so that machine rests firmly on them. For best results, extend one kickstand and rest machine on it before extending second kickstand. (Figure 4)



Figure 4 – Extending Kickstand

▲ WARNING To prevent tipping during use, machine should rest firmly on the kickstand.

4. Position the air foot switch pedal for easy operator accessibility. Machine is designed for one person operation.
5. Make sure FOR/OFF/REV switch is in the OFF position.
6. Select and install the proper tool to the end of the cable. Put screwdriver in slot, turn 180 degrees and slide apart. To connect, slide tool or cable together and turn screwdriver slot in coupler 180 degrees. Coupling is in locked position when hash mark is on opposite side of screwdriver slot as shown (*Figure 2*).

NOTE! Proper Tool Selection

A good rule of thumb is to use a tool at least 1” smaller than the line to be cleaned. The style of the tool is determined by the nature of the job and is left up to the operator. A good starting tool is a spear cutter or blade cutter.

NOTE! Trap Leaders

Inner-Core Cable is not recommended for use through P-Traps and severe bends in lines smaller than 4”. A trap leader, which is a flexible 2’ length of cable, should be connected to the front end of the cable.

7. Plug the Drain Cleaning Machine into the electrical outlet, making sure to position the power cord along the clear path selected earlier. If the power cord does not reach the outlet, use an extension cord in good condition.

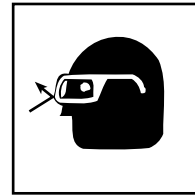
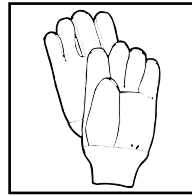
▲ WARNING To avoid electric shock and electrical fires, never use an extension cord that is damaged or does not meet the following requirements:

- The cord has a three-prong plug similar to the one shown in Electrical Safety Section.
- The cord is rated as “W” or “W-A” if being used outdoors.
- The cord has sufficient wire thickness (16 AWG below 50’/14 AWG 50’-100’). If the wire thickness is too small, the cord may overheat, melting the cord’s insulation or causing nearby objects to ignite.

▲ WARNING To reduce risk of electrical shock, keep all electrical connections dry and off the ground. Do not touch plug with wet hands. Test the Ground Fault Circuit Interrupter (GFCI) provided with the electric cord to insure it is operating correctly. When test button is pushed in, the indicator light should go off. Reactivate by pushing the reset button in. If indicator light goes on, the machine is ready to use. If the GFCI does not function correctly, do not use the machine.

Operating Instructions

▲ WARNING



Wear gloves provided with machine. Never grasp a rotating cable with a rag or loose fitting cloth glove that may become wrapped around the cable causing serious injury.

Always wear eye protection to protect your eyes against dirt and other foreign objects. Wear rubber soled, non-slip shoes.

Be careful when cleaning drains where cleaning compounds have been used. Avoid direct contact with skin and eyes.

▲ WARNING Always assume the correct operating posture in order to maintain proper balance (*Figure 5*). Should an unexpected situation arise, this posture provides you with the opportunity to safely keep control of the machine and cable.

- Be sure you can quickly remove your foot from the foot switch.
- Hand must be on the cable to control its twisting action when it hits an obstruction.
- Keep hands away from rotating drum and guide tube. Do not reach into drum unless machine is unplugged.



Figure 5 – Proper Operating Position

Using Power Feed Machines

1. Loosen feed knob and manually pull sufficient cable out of drum to start tool and cable into the sewer inlet.

NOTE! Make sure power feed is set for proper cable size before engaging feed. Also, when running 5/8" cable with 3/4" pigtail, avoid power feeding 3/4" pigtail through assembly. This practice can cause premature failure of the bearings. (See Powerfeed Adjustment Procedure)

2. Move FOR/OFF/REV switch into FOR (forward) position. Do not step on the air foot switch pedal at this time.
3. To use feed mechanism, turn feed knob down until front bearing makes contact with cable - turn one full additional turn - do not over-tighten (over-tightening the feed knob can cause premature bearing failure). Loosely grasp cable with gloved hand and place right hand on the feed lever. Feed lever should be in the neutral position (vertical or 12 o'clock). Exert sufficient downward pressure on cable to maintain control while depressing foot actuator to start drum rotation. **Do not force the cable.** Allow it to feed itself into the drain. (See Special Procedures for negotiating traps.)

▲ WARNING

Before starting machine, operator's gloved hands must be on the cable.

4. To power feed cable into line, move feed lever in same direction as rotating drum and cable. Rate at which cable is fed (0' - 20' per minute) into sewer is controlled by position of feed lever away from neutral (vertical) position.

▲ WARNING

Always keep hand on the cable to feel tension.

5. Continue to feed the cable into the line until resistance or obstruction is encountered. The condition will generally become apparent to the operator as the cable will have a tendency to twist sideways in the operator's hands.
6. Operator should immediately respond to this condition by moving feed lever into full reverse (opposite direction of drum rotation). This should release the twist in cable and reduce size of cable loop.
7. Once free of this obstruction and the load is relieved from the cable, gradually feed cable forward. Remember, when using the feed mechanism the rate of cable advance is controlled by the power feed handle. Allow cutter to advance slowly and work through the obstruction. If cable shows signs of loading (gen-

erally apparent by growing loop between machine and drain), immediately back cutter from obstruction by reversing feed.

NOTE! At this point, progress depends upon the sharpness of the tool and the nature of the obstruction. Continued operation should be in manual feed mode until the obstruction has been cleared.

8. Manually pull back sharply on the cable to free the cutter and relieve the load on the cable. Slowly advance cable back into the obstruction. Repeat this process until the obstruction is clear. Remember, make sure the cutter is rotating at all times and never force the cable.

▲ WARNING

Do not allow tension to build up in the cable. This will happen if the cutting tool hits a snag and stops turning, but the motor and its drum continue to rotate. Torque builds until the cable suddenly twists, potentially wrapping around your hand or arm. This can happen quickly and without warning so proceed slowly and carefully as you feed the cable into the drain. If tool gets hung up in an obstruction, refer to Reverse Operating Instructions in the "Special Procedures" section.

9. Several passes at a thoroughly blocked drain line are recommended. After establishing flow, increase cutter size to thoroughly clean line. Flush with strong flow of water.

NOTE! Additional cable may be added. If required, refer to "Special Procedures".

10. To retrieve cable from sewer line, move the feed lever in opposite direction of drum rotation. The cable should now feed itself back into machine.

NOTE! It is recommended that a continuous flush of water be used to clean cable and tool as they are retrieved.

11. When the tool is just inside the sewer inlet, release the air foot switch pedal and allow the machine to come to a complete stop.

▲ WARNING Never retract tool from sewer inlet while cable is rotating. Tool can whip causing serious injury.

13. Turn FOR/OFF/REV switch to OFF position and remove cord from power source.
14. Loosen feed knob. Hand feed the cable into the machine.
15. Disengage the kickstands by tilting the machine forward.

Powerfeed Adjustment Procedure

▲ WARNING

Make sure FOR/OFF/REV switch is in OFF position and machine is unplugged from power source.

1. Put screwdriver in one of two slotted pins located on front of power feed assembly (Figure 6). To power-feed $\frac{3}{4}$ " cable, turn pin so that slot indicates $\frac{3}{4}$ mark on body of assembly.

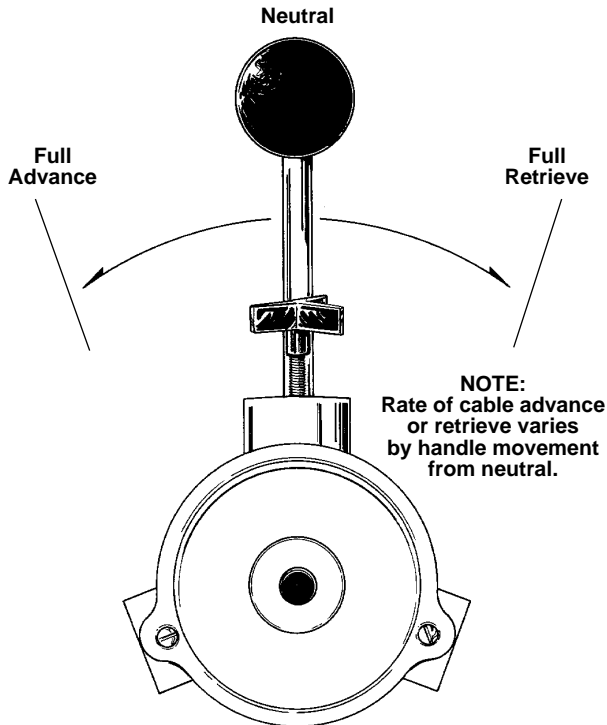


Figure 6 – Powerfeed Adjustment

NOTE! If pin seems to hit an interference, adjust position of powerfeed lever until pin rotates freely into position.

2. Repeat with the other slotted pin.
3. To power feed $\frac{5}{8}$ " cable, use same procedure to position slot so that it indicates $\frac{5}{8}$ mark on body of assembly.

NOTE! When running $\frac{5}{8}$ " cable with a $\frac{3}{4}$ " pigtail, avoid power feeding pigtail through the power feed assembly. This practice can cause premature failure of the bearings.

Using Manual Feed Machine

1. Manually pull a sufficient length of cable out of the drum to start the tool and cable into the sewer inlet.
2. Move FOR/OFF/REV switch into FOR (forward) position. Do not step on the air foot switch pedal at this time.

3. Pull 18" - 24" from the machine - enough to form a slight loop - and apply downward pressure with both hands on the cable. **Do not force the cable.** Allow it to feed itself into the drain. (See "Special Procedures" for negotiating through traps.)

▲ WARNING

Before starting machine, both operator's gloved hands must be on the cable.

4. Exert sufficient downward pressure on cable to keep it in sewer line while depressing air foot switch pedal to start cable rotating.
5. Pull cable out of drum and allow cable to feed itself into the line.

▲ WARNING

Always keep hand on the cable to feel tension.

6. Continue to feed the cable into the line until resistance or obstruction is encountered. The condition will generally become apparent to the operator as the cable will have a tendency to twist sideways in the operator's hands.
7. Pull back sharply on the cable to free the cutter and relieve the load on the cable. Slowly advance cable back into the obstruction. Repeat this process until the obstruction is clear. Remember, make sure the cutter is rotating at all times and never force the cable.

▲ WARNING

Do not allow tension to build up in the cable. This will happen if the cutting tool hits a snag and stops turning, but the motor and its drum continue to rotate. Torque builds until the cable suddenly twists, potentially wrapping around your hand or arm. This can happen quickly and without warning, so proceed slowly and carefully as you feed the cable into the drain. If tool gets hung up in an obstruction, refer to Reverse Operating Instructions in the "Special Procedures" section.

NOTE! Additional cable may be added if required. Refer to "Special Procedures".

8. Several passes through thoroughly blocked drain lines are recommended. After establishing drain flow, increase cutter size to thoroughly clean the lines.
9. To retrieve cable from sewer line, pull cable into the drum with machine in FOR (forward). The machine should be kept running during the process for thorough cleaning.

NOTE! A continuous flush of water should be used to clean the cable and tool as they are retrieved.

10. When the tool is just inside the sewer inlet, release the air foot switch pedal and allow the machine to come to a complete stop.

⚠ WARNING Never retract tool from sewer inlet while cable is rotating. Tool can whip causing serious injury.

11. Turn FOR/OFF/REV switch to OFF position and remove cord from power source.

12. Pull the remaining cable and tool from the sewer. Hand feed the cable into the machine.

13. Disengage the kickstands by tilting the machine forward.

Special Procedures

Main Sewer Or Septic Tank Overrun

It is very important to know the approximate distance from inlet to main sewer or septic tank. Over-running cable into main sewer or septic tank can cause cables to knot-up and prevent their return through small lines.

Starting Cable Through P-Trap

A trap leader is recommended. Trap leaders are flexible 2' lengths of cable connected to the front end of cable. Manual operation is recommended. Before starting machine, position cutter in bottom of trap (NOTE: Special P-Trap Cutters are recommended), and pull enough cable from machine to form a loop between machine and drain opening. Push down sharply on the bend in cable. A light tap in the foot pedal or hand turning the drum will reposition the blade to allow easier passage through the trap. Operator may choose to use powerfeed after negotiating trap.

Adding Additional Cable – Powerfeed Machines

To run a second cable down the drain/sewer line, the following procedure should be followed:

1. Stop power feed operation before cable-to-pigtail connection reaches power feed rollers.
2. Loosen feed knob.
3. Grasp and pull cable until cable-to-pigtail connection passes through power feed assembly.

NOTE! When running 5/8" cable with 3/4" pigtail, avoid power feeding 3/4" pigtail through assembly. This practice can cause premature failure of the bearings.

4. Disconnect cable from pigtail. Make sure that it does not slip down the drain/sewer inlet such that you cannot reach it.

5. Stretch out additional cable and attach end of new cable to pigtail and push cable-to-pigtail connection back through power feed assembly. Tighten knob and feed new cable into drum.

- or -

Remove empty drum assembly and mount new drum assembly loaded with cable onto machine. (See Drum Removal/Installation Procedure)

6. Attach front end of second cable to back end of cable currently in the drain line and continue the feed operation.

NOTE! Be sure entire cable and blade is rotating in drain before feeding cable into drain.

NOTE! When you need to know how much cable you have left in your drum, remember one wrap of cable in your drum is approximately 4'.

Adding Additional Cable - Manual Feed Machine

To run a second cable down the drain/sewer line, the following procedure should be followed.

1. Grasp and pull cable until cable-to-pigtail connection is accessible.
2. Disconnect cable from pigtail. Make sure it does not slip down the drain/sewer inlet such that you cannot reach it.
3. Attach end of new cable to pigtail and feed new cable into drum.

- or -

Remove empty drum assembly and mount new drum assembly loaded with cable onto machine. (See Drum Removal/Installation Procedure)

4. Attach front end of second cable to back end of cable currently in the drain line and continue the feed operation.

NOTE! Be sure entire cable and blade is rotating in drain before feeding cable into drain.

NOTE! When you need to know how much cable you have left in your drum, remember one wrap of cable in your drum is approximately 4'.



Reverse Operation

Running machine in reverse will cause premature failure of cable. Use reverse only to free a tool caught in an obstruction. If this should occur, immediately remove foot from air foot switch pedal and allow machine to come to a full and complete stop. Place FOR/OFF/REV switch to REV (reverse) position. If machine has automatic feed, loosen feed knob. Grasp cable with gloved hands and pull while jogging air foot switch pedal. When tool is dislodged and drum has stopped rotating, place FOR/OFF/REV switch in FOR (forward) position and follow normal operating procedure.

⚠ WARNING Never operate this machine in REV (reverse) for any other purpose. Operating in reverse can damage a cable and cause serious injury.

Loading The Machine On Vehicle

Tip machine backwards and rest handles on truck bed. Lift up on front of machine and slide onto truck.

⚠ WARNING Use proper lifting technique - lift with your legs, not your back.

NOTE! Take care not to damage electrical cord or air foot switch hose.

Drum Removal & Installation Procedure

⚠ WARNING

Make sure FOR/OFF/REV SWITCH is in OFF position and machine is unplugged from power source.

1. For powerfeed machines, use $\frac{3}{4}$ " wrench to remove power feed assembly from front of machine. One bolt holds assembly to frame. Bolt and assembly will come off as one (*Figures 7a and 7b*).
2. Push down on motor table handle to release belt tension and slip belt off drum (*Figure 8*).
3. Use $\frac{3}{4}$ " wrench to remove bolt that fastens drum assembly to machine frame (*Figure 9*).



Figures 7a and 7b – Use $\frac{3}{4}$ " Wrench to Remove Autofeed Assembly



Figure 8 – Release Belt Tension



Figure 9 – Remove Bolt Which Fastens Drum Assembly to Machine Frame



Figure 10 – Lift Drum from Mounting Position

4. Lay machine back so that it rests on handles. Grasp drum with both hands and lift it out of its mounting position on machine (Figure 10).

⚠ CAUTION To avoid back injury, be sure to bend your knees and lift with your legs.

5. To install drum assembly, place it in its mount on machine frame. Drum assembly should slide onto shaft mounted on frame.
6. Carefully return machine to its upright position and reverse Steps 1 through 3 to prepare machine for operation.

Pigtail Removal and Installation

⚠ WARNING

FOR/OFF/REV SWITCH should be OFF and machine is unplugged before removing or installing pigtail.

1. Remove all cable from the drum except the pigtail.
2. Remove the bolt anchoring the pigtail. It is located on the back of the drum (Figure 11).



Figure 11 – Removing Pigtail Anchoring Bolt

3. Remove the pigtail from drum by pulling it through the guide tube.
4. Insert new pigtail by pushing it through the guide tube into the drum.
5. Align hole in pigtail fastener with the hole in the back of the drum. Insert bolt, washers and nut and tighten securely. Push the remainder of the pigtail into drum.

Draining Water From Drum

Orient drum so that drain hole in its back is down. Lay machine on its back and water will drain from drum. Remove plug with a flathead screwdriver.

Loading Cable In Drum – Powerfeed Machines

For power feed machines, the cable can be loaded using the feed mechanism. Lay entire length of cable on flat surface in line with drum front. Start machine and adjust feed mechanism to retract cable into drum. Note, cable will move sideways on ground while in operation. Loading with assistance of power feed will ensure cable lays correctly in drum and eliminate chance of vibration.



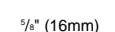

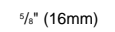


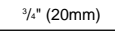


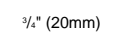
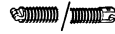
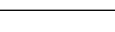

Accessories

▲ WARNING





Only the following RIDGID products have been designed to function with the K-750 Drain Cleaning Machine. Other accessories suitable for use with other tools may become hazardous when used on the K-750. To prevent serious injury, use only the accessories listed below.

Solid Core, Integral Wound Cables (IW) are stiffer, less flexible versions of 5/8" cable.








Cables and Flexible Leaders

	Model No.	Description
   5/8" (16mm)	C-25	25' Flexible I.C. Cable (7,6m)
	C-26	50' Flexible I.C. Cable (15,2m)
	C-27	75' Flexible I.C. Cable (22,9m)
	C-24	100' Flexible I.C. Cable (30,5m)
	C-24 IW	100' IW Solid Core Cable (Integral Wound) (30,5m)
  5/8" (16mm)	C-27HC	75' Hollow Core (22,9m)
	C-24HC	100' Hollow Core (30,5m)
    3/4" (20mm)	C-28	25' I.C. Cable (7,6m)
	C-29	50' I.C. Cable (15,2m)
	C-75	75' I.C. Cable (22,9m)
	C-100	100' I.C. Cable (30,5m)
  3/4" (20mm)	C-75HC	75' Hollow Core (22,9m)
	C-100HC	100' Hollow Core (30,5m)
 	T-458	5/8" x 2' Leader
	T-468	3/4" x 2' Leader
	—	5/8" Pigtail
	—	3/4" Pigtail

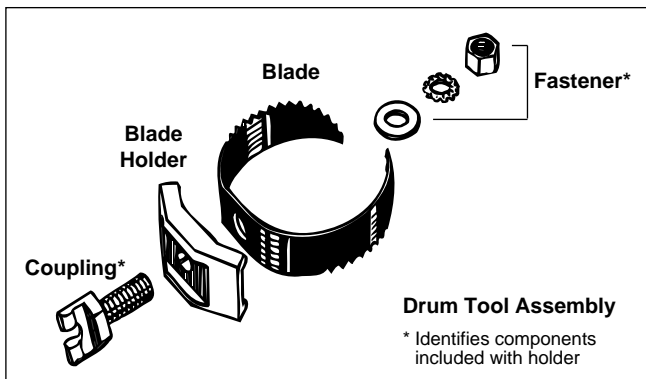
Accessories

	Model No.	Description
	A-7558	Drum Assembly w/ 5/8" Pigtail
	A-7534	Drum Assembly w/ 3/4" Pigtail
	A-75	Power feed Assembly
—	—	Front Guide Hose Assembly
	—	Pair of Work Gloves
	A-3	Tool Box
—	—	Cable Rust Inhibitor, 1 Quart
—	—	Cable Rust Inhibitor, 1 Gallon

Tools and Replacement Blades – Fits C-24, C-25, C-26, C-27, C-29, C-75, C-100, C-27HC, C-24HC, C-75HC, and C-100HC

	Model No.	Description	Replacement	
			Blade(s)	Holder
	T-403	P-Trap Cutter, 3"	92835	92900
	T-404	P-Trap Cutter, 3 1/2"	92840	92900
	T-406	Spear Blade	92850	92915
	T-407	Retrieving Auger	—	—
	T-408	Sawtooth Cutter	92890	92915
	T-409	H-D Bulb Auger	—	—
	T-411	Double Cutter, 2"	92815	92905
	T-412	Double Cutter, 2 1/2"	92820	92905
	T-413	Double Cutter, 3"	92825	92910
	T-414	Double Cutter, 4"	92830	92910
	T-416	Double Cutter, 6"	92855	92910
	T-432	3-Blade Cutter, 2"	92860	92895
	T-433	3-Blade Cutter, 3"	92865	92895
	T-434	3-Blade Cutter, 4"	92870	92895
	T-436	3-Blade Cutter, 6"	92875	92895

* Includes Coupling and Fastener



Maintenance Instructions

▲ WARNING

Make sure machine is unplugged from power source before performing maintenance or making any adjustment.

Lubrication

Grease all exposed, moving and rotating parts as required.

Powerfeed Assembly

Proper cleaning and lubrication of the power feed assembly is advised for long, trouble-free operation. After each use, hose out power feed assembly with water and lubricate with lightweight machine oil.

Cables

Drain drum after every use. Flush drum periodically, remove sediment that can corrode cable.

Cables should be thoroughly flushed with water to prevent damaging effects of drain cleaning compounds. Periodically lubricate cables and couplings with RIDGID Cable Rust Inhibitor. *See Accessories for catalog information.*

When not in use, store cables indoors to prevent deterioration by the elements.

Cables should be replaced when they become severely corroded or worn. A worn cable can be identified when outside coils of cable become flat.

Machine Storage

▲ WARNING

Motor-driven equipment must be kept indoors or well covered in rainy weather. Store the machine in a locked area that is out of reach of children and people unfamiliar with drain cleaners. This machine can cause serious injury in the hands of untrained users.

Service and Repair

▲ WARNING



The "Maintenance Instructions" will take care of most of the service needs of this machine.

Chart 1 Trouble Shooting

PROBLEM	POSSIBLE REASONS	SOLUTION
Cable kinking or breaking.	Cable is being forced. Cable used in incorrect pipe diameter. Motor switched to reverse. Cable exposed to acid. Cable worn out.	Do Not Force Cable! Let the cutter do the work. Use 5/8" cables in 3" to 6" lines, 3/4" cables in 4" to 10" lines, Use reverse only if cable gets caught in pipe. Clean and oil cables routinely. If cable is worn, replace it.
Drum stops while pedal is depressed. Restarts when pedal is re-depressed.	Hole in pedal or hose. Hole in diaphragm switch.	Replace damaged component. If no problem found with pedal or hose, replace diaphragm switch.
Drum turns in one direction but not the other.	Faulty reverse switch.	Replace switch.
Ground Fault Circuit Interrupter Trips when machine is plugged in or when foot pedal is depressed.	Damaged power cord. Short circuit in motor Faulty Ground Fault Circuit Interrupter.	Replace cord set. Take motor to authorized service center. Replace cord set that includes a Ground Fault Circuit Interrupter.

Wiring Diagram

