RIDGID

K-750R Manual

5/8″ Cage Machine

⚠ WARNING!

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

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K-750R
5/8″ Cage Machine

RIDGID®

K-750R 5/8″ Cage 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.

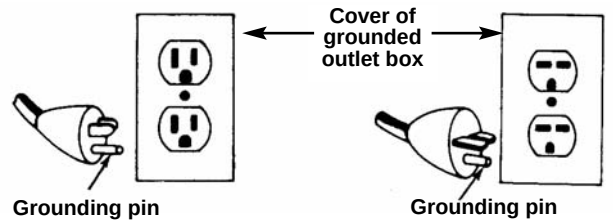
SAVE THESE INSTRUCTIONS!

Work Area Safety

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate power 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 power 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.
- **Do not 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, 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 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 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 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 electrical shock or injury.

Specific Safety Information

⚠ WARNING

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

Call Ridge Tool Company, Technical Service at (800) 519-3456 if you have any questions.

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 two hands on the cable for control when machine is running.** Overstressing cables may cause twisting or kinking and result in serious injury.
- **Position machine within three feet of inlet.** 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.
- **Do not use this machine in drains where cleaning compounds have been used.** 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.
- **Only use the K-750R to clean drain lines 3″ to 6″ in diameter. 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-750R Drain Cleaning Machine will clean drain lines 3″ to 6″ in diameter and 100 feet in length. It is specifically designed with a steel wire drum to allow for inspection and cleaning of the cable.

The steel wire 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 and a "kickstand" base is provided for machine stability during operation. A pneumatic foot actuator provides **ON/OFF** control of the motor.

The drum powers a 5/8″ inner core cable that has a quick change coupling system for connecting or disconnecting tools. The cable is manually fed in and out of the drain. An integral torque limiter will cause the drum to stop rotating whenever excessive torque is created when the cutting tool attached to the cable hits a snag and stops rotating.

Specifications

Line Capacity	3″ – 6″ Lines, Up To 100 feet
Drum Capacity	100′ of 5/8″ Cable
Motor Type	115V, Reversible, Single Phase, AC (60Hz)
Rating	1/2 HP @ 1725 RPM
Amps	6.5
Weight (Machine & Cable)	194 lbs.
Length	26″
Width	21″
Height	43″

Standard Features

K-750R

- K-750R Cage Machine *(Figure 1)*
- C-24 IW Solid Core Cable (Integral Wound) (5/8″ x 100′)
- 1 Pair Gloves
- T-403 P-Trap Cutter *(Figure 2)*
- T-406 Spade Cutter *(Figure 3)*
- T-411 2″ Cutter *(Figure 4)*
- T-413 3″ Cutter *(Figure 4)*
- T-414 4″ Cutter *(Figure 4)*
- Safety & Instruction Card
- Rental Checklist Card
- Instruction Video
- Toolbox

Figure 1 – Machine With Gloves

Figure 2 – T-403 3″ P-Trap Cutter: Used for exploring and breaking up stoppages.

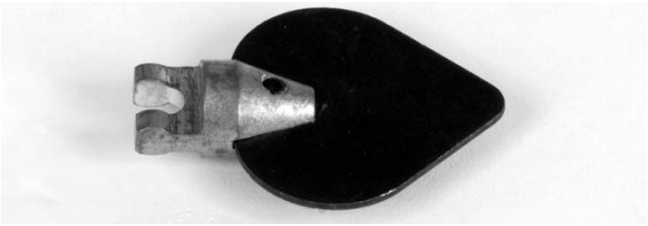
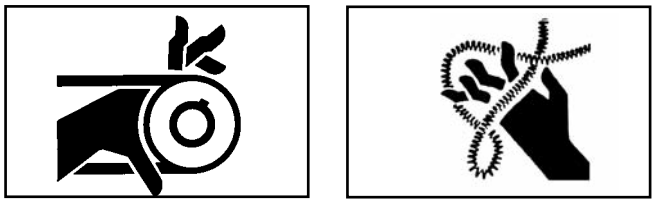


Figure 3 – T-406 Spade Cutter: Used to get soft grease or debris moving in the drain.

Figure 4 – T-411 2″, T-413 3″ & T-414 4″ Cutter: Used for general cleaning to remove tree roots and materials clinging to pipe walls.

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 6)*.

⚠ 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.

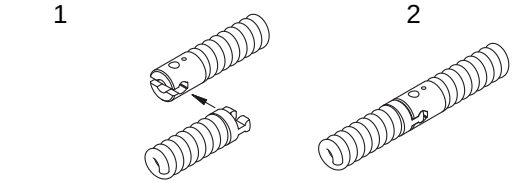
Connecting/Disconnecting 5/8" and 3/4" Drum Machine Cable Couplings

Keep couplings clean and lubricated. Plunger pin must move freely and fully extend to secure connection.

New style – Plunger pin

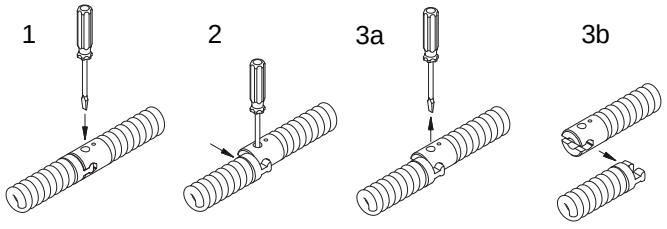
Screwdriver required.

Connecting



1. Slide the couplings together. If needed, depress plunger pin.
2. Confirm connection is secure. (plunger pin fully extended).

Disconnecting

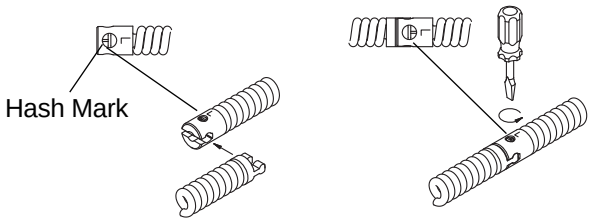


1. Insert the screwdriver to depress the plunger pin.
2. Push the couplings apart until the male coupling contacts the screwdriver.
3. Remove the screwdriver and push the couplings apart.

Old style – Rotating pin

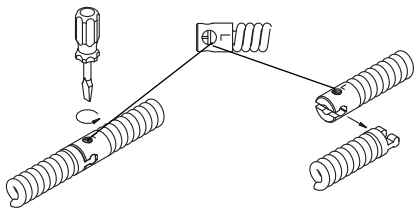
Screwdriver required.

Connecting



1. Slide the couplings together.
2. Rotate pin so hash mark is away from end of cable (towards "L" stamped on coupling). Confirm connection is secure.

Disconnecting



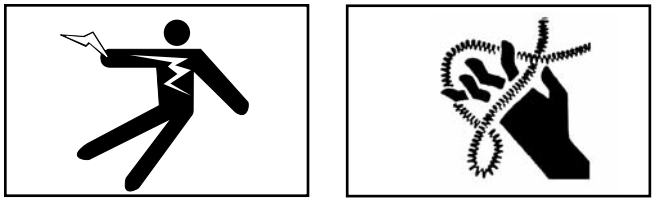
1. Rotate pin so hash mark is towards end of cable (away from "L" stamped on coupling).
2. Push the couplings apart.

Figure 5

Retrieve end of cable through the center hole of carton and remove enough cable to connect with drum pigtail. Connect the male coupling of the cable to the pigtail coupling *(see Figure 5)*. Confirm connection is secure. Manually feed cable into drum.

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 6)*.

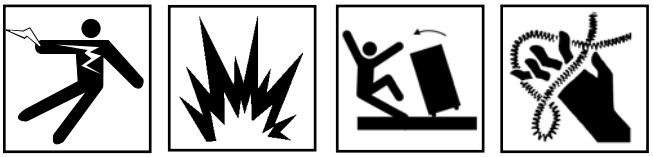
Figure 6 – K-750R Drain Cleaner

2. Make sure the foot switch is present and attached to the Drain Cleaning Machine *(Figure 6)*. 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.
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 and Work Area Set-Up

⚠ WARNING



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. Greater distances can result in cable kinking or twisting.
3. Tilt machine forward and use foot to extend "kick-stands" so that machine rests firmly on them. For best results, extend one kickstand and rest machine on it before extending second kickstand. *(Figure 7)*

Figure 7 – 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. Securely install tool on the end of the cable *(See Figure 5)*. If the connection is not secure, the cutting tool may fall off in use.

NOTE! Proper Tool Selection

The tools provided with this drain cleaner along with a description of their intended use is shown in *Figures 2, 3 and 4*. 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 the T-403 Cutter *(Figure 2)*.

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 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.

Do not use this machine in drains containing drain cleaning compounds. Recommend calling a drain cleaning professional.

⚠ WARNING Always assume the correct operating posture in order to maintain proper balance *(Figure 8)*. 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 8 – Proper Operating Position

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″ cable from the machine – enough to form a slight loop – and apply slightly downward pressure with both hands on the cable. Do not force the cable. Allow it to feed itself into the drain.

⚠ WARNING

Before starting machine, both operator's gloved hands must be on 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. Always keep hand on the cable to feel the 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. If motor turns but the drum stops, the torque limiter is slipping because of excessive force. Pull back on cable to relieve torque and drum will begin to spin.

⚠ 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.

8. Several passes through thoroughly blocked drain lines are recommended. After establishing drain flow, increase cutter size to thoroughly clean the lines.
9. Push cable into the drum with machine in FOR (forward). The machine should be kept running during the process for thorough cleaning and uniform re-setting of cable in the drum.

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 too far into main sewer or septic tank can allow cables to knot-up and prevent their return.

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.

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. Push down on motor table handle to release belt tension and slip belt off drum. *(Figure 9)*
2. Use 3/4″ wrench to remove bolt that fastens drum assembly to machine frame. *(Figure 10)*

Figure 9 – Release Belt Tension

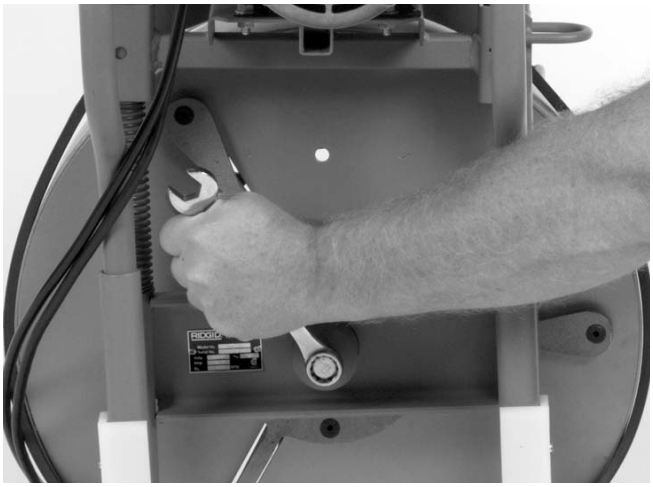


Figure 10 – Remove Bolt Which Fastens Drum Assembly to Machine Frame

Figure 11 – Lift Drum From Mounting Position

3. 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 11)*.

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

4. To install drum assembly, place it in its mount on machine frame. Drum assembly should slide onto shaft mounted on frame.
5. Carefully return machine to its upright position and reverse Steps 1 through 5 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 12)*.

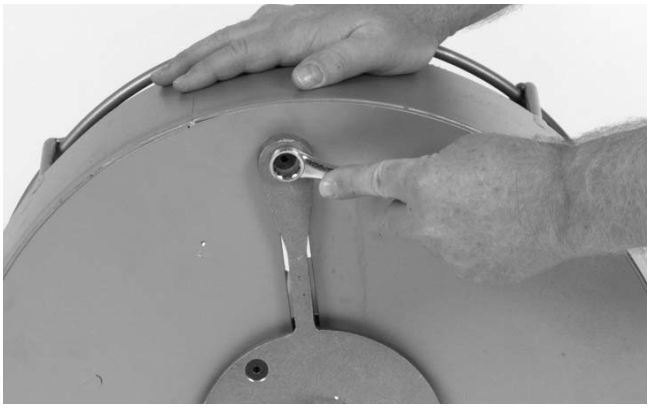


Figure 12 – Removing Pigtail Anchoring Bolt

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.

Accessories

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

Catalog No.	Model No.	Description
87602	C-24 IW	5/8″ x 100′ Solid Core Cable
92485	T-403	P-Trap Cutter
92495	T-406	Spade Cutter
92510	T-411	2″ Cutter
92520	T-413	3″ Cutter
92525	T-414	4″ Cutter
41937	—	Gloves
59360	—	Toolbox
43642	A-75	AUTOFEED Assembly
59982	—	Cable Rust Inhibitor, 1 Quart
59987	—	Cable Rust Inhibitor, 1 Gallon

Maintenance Instructions

⚠ WARNING

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

Lubrication

Grease all exposed, moving and rotating parts as required. Grease drum assembly fitting periodically.

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 regarding catalog numbers.

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

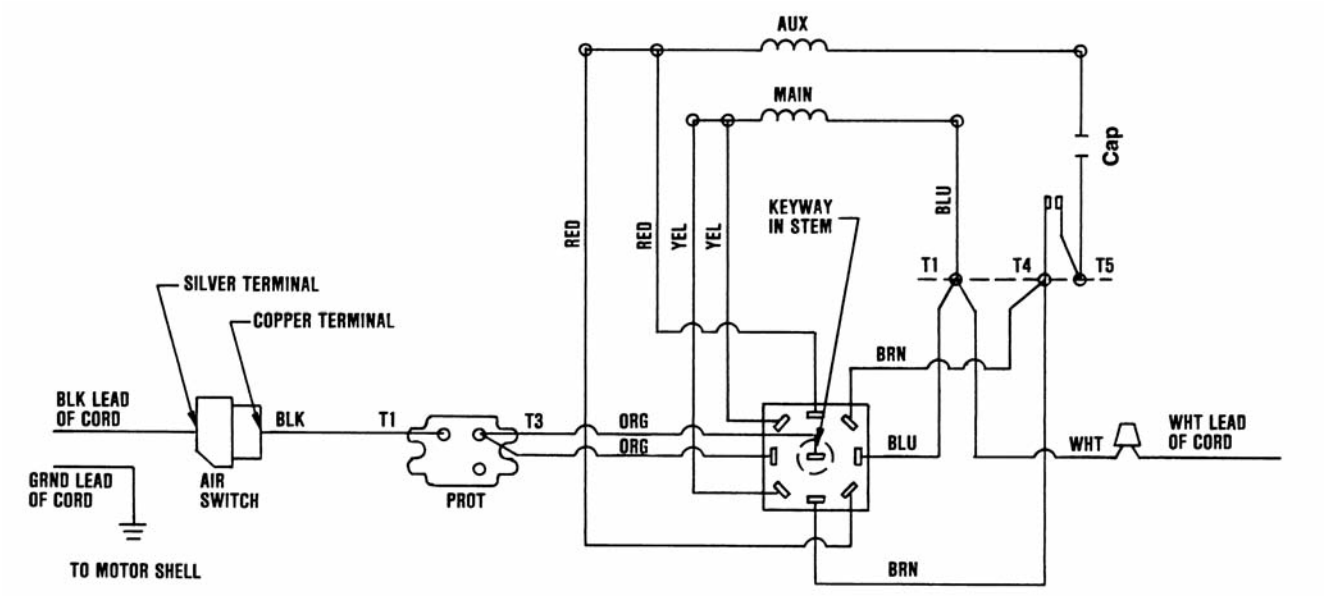
Service and repair work on this Drain Cleaner must be performed by qualified repair personnel. Machine should be taken to a RIDGID Independent Authorized Service Center or returned to the factory. All repairs made by Ridge service facilities are warranted against defects in material and workmanship.

⚠ WARNING When servicing this machine, only identical replacement parts should be used. Failure to follow these instructions may create a risk of electrical shock or other serious injury.

Chart 1 Troubleshooting

PROBLEM	POSSIBLE REASONS	SOLUTION
Cable kinking or breaking.	Cable is being forced.	Do Not Force Cable! Let the cutter do the work.
	Cable used in incorrect pipe diameter.	Use 5/8″ cables in 3″ to 6″ lines.
	Motor switched to reverse.	Use reverse only if cable gets caught in pipe.
	Cable exposed to acid.	Clean and oil cables routinely.
	Cable worn out.	If cable is worn, replace it.
Drum stops while pedal is depressed. Restarts when pedal is re-depressed.	Hole in pedal or hose.	Replace damaged component.
	Hole in diaphragm switch.	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.	Replace cord set.
	Short circuit in motor	Take motor to authorized service center.
	Faulty Ground Fault Circuit Interrupter.	Replace cord set that includes a Ground Fault Circuit Interrupter.
Motor turning but cage is not.	Torque limiter slipping because cable is being forced.	Do not force cable.

Wiring Diagram



What is covered
RIDGID® tools are warranted to be free of defects in workmanship and material.

How long coverage lasts
This warranty lasts for the lifetime of the RIDGID® tool. Warranty coverage ends when the product becomes unusable for reasons other than defects in workmanship or material.

How you can get service
To obtain the benefit of this warranty, deliver via prepaid transportation the complete product to RIDGE TOOL COMPANY, Elyria, Ohio, or any authorized RIDGID® INDEPENDENT SERVICE CENTER. Pipe wrenches and other hand tools should be returned to the place of purchase.

What we will do to correct problems
Warranted products will be repaired or replaced, at RIDGE TOOL'S option, and returned at no charge; or, if after three attempts to repair or replace during the warranty period the product is still defective, you can elect to receive a full refund of your purchase price.

What is not covered
Failures due to misuse, abuse or normal wear and tear are not covered by this warranty. RIDGE TOOL shall not be responsible for any incidental or consequential damages.

How local law relates to the warranty
Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific rights, and you may also have other rights, which vary, from state to state, province to province, or country to country.

No other express warranty applies
This FULL LIFETIME WARRANTY is the sole and exclusive warranty for RIDGID® products. No employee, agent, dealer, or other person is authorized to alter this warranty or make any other warranty on behalf of the RIDGE TOOL COMPANY.

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