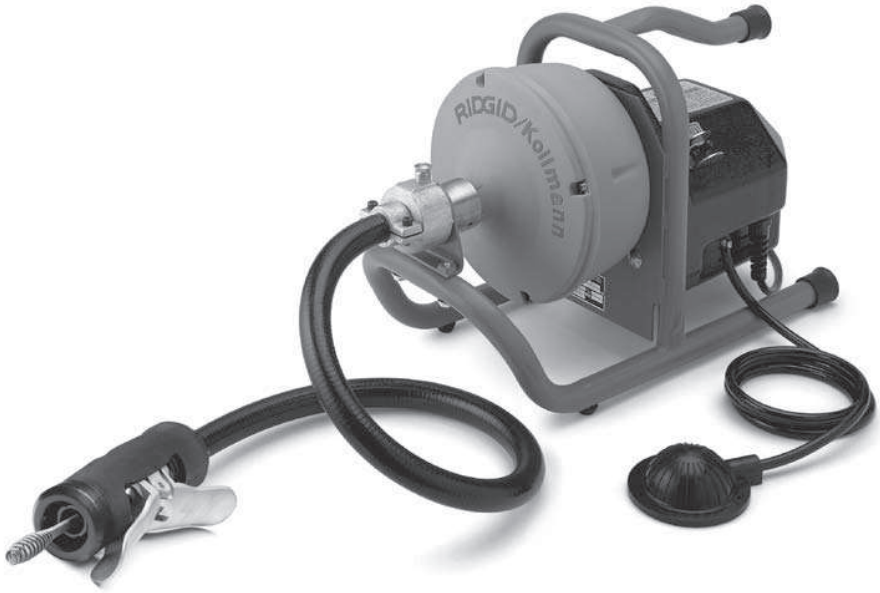
# K-39
# K-40

RIDGID®






RIDGE TOOL COMPANY

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# K-39, K-39B, K-40 Operating Instructions

## General Safety Information

**WARNING! Read these instructions and the accompanying safety booklet carefully before using this equipment. If you are uncertain about any aspect of using this tool, contact your RIDGID distributor for more information.**

**Failure to understand and follow all instructions may result in electric shock, fire, and/or serious personal injury.**

**SAVE THESE INSTRUCTIONS!**

## Drain Cleaner Safety

- **Never grasp a rotating cable with a rag or loose fitting cloth glove.** It could become wrapped around the cable and cause serious injury. **Only wear RIDGID drain cleaning gloves.**
- **Do not overstress cables.** Overstressing cables may cause twisting or kinking and result in serious injury.
- **Position machine within one foot of inlet.** Greater distances can result in cable twisting or kinking.
- **Do not use tool if switch is broken.** Any tool that cannot be controlled by the switch is dangerous and must be repaired.
- **Machine is designed for one person operation.** Operator must control switch and cable.
- **Do not operate machine in reverse (REV).** Operating machine in reverse can result on cable damage and is only used to back tool out of an obstruction.
- **Do not place this tool in water.** Water entering the motor housing will increase the risk of electrical shock.
- **Only use the K39/K-39B or K-40 to clean lines 3/4" to 21/2" in diameter. Follow instructions on proper use of the drain cleaner.** Other uses or modifying this drain cleaner for other applications may increase the risk of injury.
- **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.

## Battery/Charger Safety (K-39 only)

⚠**WARNING:** Before using battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery pack, and (3) K-39B.

- **Use only the charger which accompanies your product or a direct replacement. Do not substitute any other charger.** May result in battery damage and/or serious injury.
- **Charge only RIDGID No. BP12 rechargeable batteries.** Other types of batteries may burst causing personal injury and damage.
  **Do not disassemble charger or operate the charger if it had received a sharp blow, been dropped or otherwise damaged in any way. Replace damaged cord or plugs immediately.** Incorrect reassembly or damage may result in electric shock or fire.
- **Do not recharge battery in damp or wet environment. Do not expose charger to rain or snow. If battery case is cracked or otherwise damaged, do not insert into charger.** Battery short or fire may result.
- **Charge battery cartridge in temperatures above 4°C (40°F) and below 41°C (105°F). Store tool and battery pack in locations where temperatures do not go below 4°C (40°F) or will not exceed 49°C (120°F). Allow battery pack to return to room temperature before attempting to charge.** Improper care of batteries may result in battery leakage, electrical shock or burns.
- **Battery leakage may occur under extreme usage or temperature conditions. Avoid contact with skin and eyes.** The battery liquid is caustic and could cause chemical burns to tissues. If liquid comes in contact with skin, wash quickly with soap and water, then with lemon juice or vinegar. If the liquid contacts your eyes, flush them with water for a minimum of 10 minutes and seek medical attention.
- **Place charger on flat non-flammable surfaces and away from flammable materials when recharging battery pack.** The charger and battery pack heat during charging. Carpeting and other heat insulating surfaces block proper air circulation which may cause overheating of the charger and battery pack. If smoke or melting of the case are observed unplug the charger immediately and do not use the battery pack or charger.
- **When batteries are not in tool or charger, keep them away from metal objects.** For example, to protect terminals from shorting DO NOT place batteries in a tool box or pocket with nails, screws, keys, etc. Fire or injury may result.
- **Do not put batteries into fire or expose to high heat.** They may explode causing serious injury.

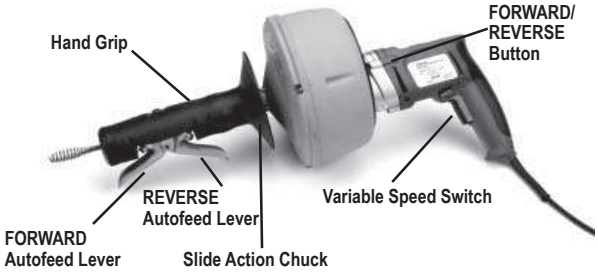


**Figure 1 – K-39AF Drain Cleaner**

# Description, Specifications and Standard Equipment

## Description

The RIDGID model K-39 AF, K-39 AF Battery and K-40 are hand-held drain cleaners designed to clean 3/4" to 21/2" drain lines in kitchens, bathrooms and utility rooms.

The K-39 electric powered tool is a double-insulated design equipped with polarized plug. Double insulation eliminates the need for the three-wire grounded power cord and grounded supply system.

The slide-action chuck grips the cable so that it can be forced into the blockage as the drum continues to spin.

The autofeed unit automatically feeds and retrieves the cable thereby eliminating the need for manual control.

The Model K-39B *(Figure 2)* battery powered version eliminates the need for a power outlet or extension cord at the point of application. It is offered with the slide-action chuck and the autofeed assembly.

**Figure 2 – K-39B Drain Cleaner**

The RIDGID K-40 drain cleaner *(Figure 3)* is designed to clean 30-75mm lines. The K-40 is equiped with a guide hose and double action autofeed for easy access to confined spaces.

**Figure 3 –K-40 Drain Cleaner**

## K-39, K-40 specifications, standard equipment and accessories: see catalog

# Drain Cleaner 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.
2. Electrical components:
   ***K-39 / K-40 Drain Cleaner:***
   Inspect the power cord and plug for damage. If the plug has been modified or if the cord is damaged, do not use the Drain Cleaner until the cord has been replaced.
   ***K-39 Battery Charger:***
   Inspect the power cord and plug for damage. If the cord or plug is damaged, do not use the charger until the cord is replaced. Inspect charger for damage. Do not use charger if it has received a sharp blow, been dropped or otherwise damaged.
3. 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.
4. Lubricate the Drain Cleaner and the autofeed unit, if necessary, according to the Maintenance Instructions.
5. Use accessories that are designed for your drain cleaner and meet the needs of your application. The correct 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.
6. 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.
7. 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 or having several kinks throughout the cable.

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

# Drain Cleaner and Work Area Set-Up

⚠**WARNING:** To prevent serious injury, proper set-up of the drain cleaner and work area is required. The following procedures should be followed to set-up the K-39, K-40 and K-39B.

## K-39, K-40 Drain Cleaner:

1. Check work area for:
   - Adequate lighting.
   - No flammable liquids, vapors or dust that may ignite.
   - 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 operator.
2. Make sure trigger is not engaged (K-39).
3. Plug the Drain Cleaner 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 electrical shock and electrical fires, never use an extension cord that is damaged or does not meet the following requirements:

- The cord is rated for outdoor use if being used outdoors.
- The cord has sufficient wire thickness (1.5 mm² up to 30m). 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.

## Sink Clog Setup:

1. First, remove the sink's P-trap by unscrewing it at both ends. Remember to place a bucket under the sink to catch backed up water. Clean out any debris that may be stuck in the P-trap.
2. Place the K-39, K-40 close to the drain pipe that is coming out of the wall and follow the operating instructions.

## Bathtub Clog Setup:

1. Remove the tub's overflow cover plate. Pull out all of the stopper linkage in order to expose the open hole.

**CAUTION:** DO NOT run the machine through the drain in the bottom of the tub. ALWAYS go through the tub's overflow.

2. Place the K-39, K-40 close to the overflow opening and follow the operating instructions.

## Urinal Clog Setup:

1. Remove urinal from wall. Place a bucket under drain to catch any backed up water. Clean out any debris that may be stuck in urinal. Trying to clean drain through urinal may damage porcelain.
2. Follow operating instructions below to clean drain.

## K-39 Battery Charger Setup

**Battery Charging Procedure:**

⚠**WARNING:** Before using the battery charger, read all the instructions included with the battery and charger.

1. Locate the charger so the cord and charger will not be stepped on, tripped over or be subjected to damage. Do not expose charger to wet environment such as rain or snow.
2. Charge battery cartridge in temperatures above 4°C (40°F) and below 41°C (105°F). Store tool and battery cartridge in location where temperatures do not exceed 49°C (120°F) or go below 4°C (40°F). Allow battery pack to return to room temperature before attempting to charge.
3. Plug the battery charger into the proper A/C voltage source.

⚠**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 pins on line plug that are similar in size and shape to those of the plug on the charger.
- The cord is rated for outdoor use if being used outdoors
- The cord has sufficient wire thickness (1.5mm² up to 30m). If the wire thickness is too small, the cord may overheat, melting the cord's insulation or causing nearby objects to ignite.

4. Before inserting battery pack, remove protective cap then insert battery pack into charger.
5. When battery cartridge is inserted, the charger's green indicator will begin to "BLINK". This indicates that the battery is receiving a fast charge. Fast-charging will automatically stop when the battery pack is fully charged.
   When the indicator light stops " BLINKING" (and becomes a steady green light) fast charging is complete.
   When you begin the charging process of the battery pack, a steady green light could also mean the battery pack is too hot or too cold.
   The purpose of the light is to indicate that the battery pack is fast-charging. It does not indicate the exact point of full charge. The light will stop blinking in less time if the battery pack was not completely discharged.
   When the battery pack is fully charged, unplug the charger (unless you're charging another battery pack) and slip the battery pack back into the tool handle.
   To prevent fire or injury when batteries are not in tool or charger, always place protective cap onto end of battery pack.

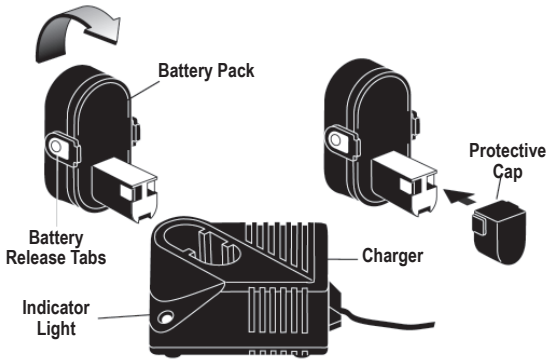


**Figure 4 – Charging Battery Pack**

**NOTE!** Charging time will be approximately one hour.

⚠**WARNING:** Charge only RIDGID-type batteries. Other types of batteries may burst causing personal injury.

5. After charging, unplug the charger from the power source.

## Important Charging Notes

1. The battery pack accepts only about 80% of its maximum capacity with its first few charge cycles. However, after the first few charge cycles, the battery will charge to full capacity.
2. The charger was designed to fast charge the battery only when the battery temperature is between 4°C (40°F) and 41°C (105°F).
3. A substantial drop in operating time per charge may mean that the battery pack is nearing the end of its life and should be replaced.
4. If you anticipate long periods (i.e. a month or more) of non-use of your tool, it is best to run your tool down until it is fully discharged before storing your battery pack. After a long period of storage, the capacity at first recharge will be lower. Normal capacity will be restored in two or three charge/discharge cycles. Remember to unplug charger during storage period.
5. If battery does not charge properly:
   A. Check for voltage at outlet by plugging in some other electrical device.
   B. Check to see if outlet is connected to a light switch which turns power "OFF" when lights are turned off.
   C. Check battery pack terminals for dirt. Clean with cotton swab and alcohol if necessary.
   D. If you still do not get proper charging, take or send tool, battery pack and charger to your Ridge Tool Service Center.

## K-39 Battery Drain Cleaner

1. Release battery pack from tool by pressing on both sides of the battery release tabs and pull downward. To insert battery, align battery and slide battery pack into tool until it locks into position. Do not force.
2. Check work area for:
   - Adequate lighting
   - Dry place for operator.
   - Flammable liquids, vapors or dust that may ignite.

# Operating Instructions

⚠**WARNING:** Only wear RIDGID drain cleaning gloves. 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 very careful when cleaning drains where chemical compounds have been used. Avoid direct contact of the skin and especially the eyes and facial area as serious burns can result. Rinse hands thoroughly after contact with chemical compounds.

## Controls

**CAUTION:** Know the location and function of all controls before using this drain cleaner.

### Slide-Action Chuck (K-39)

Pull hand grip REARWARD and it locks into engaged position to grip cable. This action locks the cable so it can be forced into blockage as the drum continues to spin. This also does not allow the cable to be forced back into the drum when meeting resistance *(Figure 5)*. Push hand grip FORWARD to disengage and draw cable out of or into cable canister.

### Variable Speed Switch (K-39)

Operate at any speed from 0 to maximum 450 RPM, 700 RPM for the cordless version. The speed is controlled by the pressure you apply to the trigger. Apply more pressure to increase speed and release pressure to decrease speed.

### FORWARD/REVERSE Button

The FORWARD/REVERSE Button, located above the variable speed trigger switch, changes rotation of cable. For clockwise rotation (normal), push button to left (FORWARD) position. For counterclockwise rotation, push button to right (REVERSE) position.

**CAUTION:** Power unit must be completely stopped before moving FORWARD/REVERSE switch. REVERSE position is used only when removing cable from an obstruction.

**NOTE!** While using the K-39 AF and K-40 AF, you do not need to reverse the direction of the power source to retrieve the cable (this is valid for K39 AF version January 2007 and K-40 AF version August 2007). Simply use the reverse lever on the autofeed. However, if you do get stuck in an obstruction or need to "unscrew" out of something put the unit in reverse. With the K-40 with single action autofeed, you need to inverse the motor direction to retrieve the cable.

**CAUTION:** Putting an AF unit in reverse will change the rotation of the cable and therefore switch the autofeed direction levers (forward will become reverse and vice versa).

## Cleaning Drain Line

1. Insert cable into drain opening by hand as far as possible before turning machine on. Leave approximately 6" of cable between drain opening and nose of machine *(Figure 5)*.

**Figure 5 – Keep Distance Between Drain Opening and Nose of Drain Gun to 6" or Less**

2. Be sure machine FORWARD/REVERSE button is in the FORWARD position.
3. Squeeze trigger and be sure entire cable is spinning before continuing.

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**NOTE!** The K-39 autofeed cannot be used while the hand grip chucking mechanism is engaged. Be sure the hand grip is pushed forward all the way.

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4. Depress the forward autofeed lever to feed cable into drain.

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**NOTE!** Know how long your run of pipe is prior to cleaning. Running too much cable can damage your equipment and the cable.

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5. Feed cable into drain until obstruction is encountered or cable begins to bind up.
6. K-39: Release the forward autofeed lever and back the cable up using the reverse autofeed lever. Then use the forward lever to again feed the cable to remove the obstruction a piece at a time. Continue this back and forth until you have broken through the obstruction.
   K-40: reverse the machine direction to retrieve the cable. Then reverse again to forward the cable. Repeat till you have broken through the obstruction.

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⚠**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 cable 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.

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7. Once drain is open and flowing, continue feeding additional cable with autofeed to clean rest of drain.
8. To retrieve cable, simply depress the reverse autofeed lever (K-39) or pull the cable back by hand (K-40).

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**NOTE!** K-39: There is no need to reverse the motor direction to retrieve the cable. Simply depress the reverse autofeed lever.

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9. Completely release trigger just prior to cable or tool emerging from drain opening. Retrieve by hand as cable or tool may contain debris and splash work area.

# Special Procedures

## Reverse Operation

If cable/blade gets hung up in obstruction, release trigger switch and let motor come to a complete stop before reversing.
Place FORWARD/REVERSE button in REVERSE position. Press trigger switch only until cable/blade is free of obstruction. Release trigger switch immediately.

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**CAUTION:** Only run machine in REVERSE if relieving blade from a blockage.

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**NOTE!** When motor direction is in reverse; autofeed directional levers will be reversed, (FORWARD will become REVERSE and vise versa).

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As soon as cable/blade is free and motor has stopped, return FORWARD/REVERSE button to FORWARD position.

## Loading Cable Into Cable Canister

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⚠**WARNING:** Make sure machine is unplugged from power source before loading cable.

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Your K-39, K-39B and K-40 is supplied with an inner drum that fits snugly inside the cable canister that allows easy change-out of cable. K-39 Models that include extra cable as standard equipment come with an inner drum for each cable. To utilize the inner drum feature:

1. Pull hand grip forward to the disengaged position.
2. Loosen the four (4) screws that hold the canister front half to the back half. Loosen each screw 3 (three) full turns *(Figure 6)*.
3. Separate the canister front half from the back half by twisting apart.
4. Lift the inner drum, with cable, out of its cradled fit.
5. Fit the new inner drum into the canister's back half and draw about a foot of cable out of the inner drum *(Figure 7)*.

**Figure 6 – Loosen Four (4) Screws From Back Half of Canister About Three (3) Full Turns**

6. Pass the exposed cable head through the front half assembly, align the front half with the back half of the canister, and rotate drum front to lock into position. Tighten the screws.
7. For K-39 AF, you will need to pull up on both the FORWARD and REVERSE autofeed levers to fit bulb of cable through autofeed.

**Figure 7A – When Loading Cable Into an Inner Drum, Wind the Cable in Clockwise**

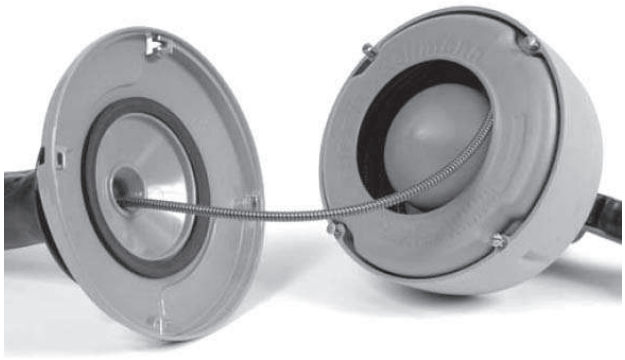

**Figure 7B – Pass Exposed Cable Through Front Half and Reassemble to Back Half of Canister**

# Maintenance Instructions

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

## Drain Cleaner

1. Cables should be thoroughly flushed with water after each use to prevent damaging effects of drain cleaning compounds. Use RIDGID Cable Rust Inhibitor or an equivalent oil.

**NOTE!** 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 cables become flat.

2. Use a clean cloth to wipe the unit off. Oil, grease and other substances may cause deterioration.
   Certain cleaning agents and solvents damage plastic parts. Some of these are: gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia and household detergents that contain ammonia. Avoiding use of these and other types of cleaning agents minimizes the probability of damage.
3. Regularly drain the inner drums of any captured liquid. Simply hold the machine nose down and drain excess liquid each time the machine is used.
4. Store the unit where it is cool and dry.

About once a year, return your K-39 to the nearest RIDGID Authorized Service Center for the following:

- Parts cleaned and inspected.
- Relubricated with fresh lubricant.
- Electrical system tested.
- All repairs.

# Autofeed

A drop of grease to the following areas once a month will extend the life of the autofeed unit and keep it well maintained:

- Pivot arm/spring location.

The autofeed will accumulate dirt, grease and debris over time. Periodically remove the autofeed unit and clean.

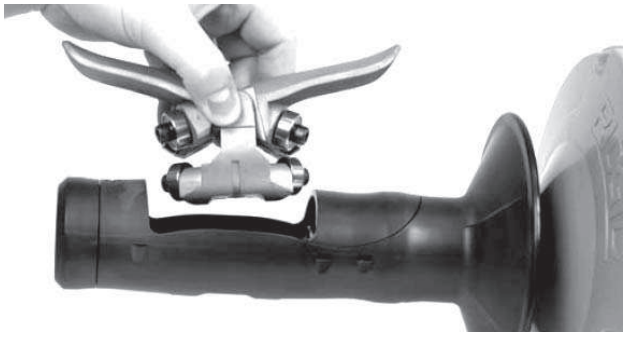

**Figure 8**