

Press Snap™ Soil Pipe Cutter



⚠ 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.



Safety Symbols

In this operator's manual and on the product, safety symbols and signal words are used to communicate important safety information. This section is provided to improve understanding of these signal words and symbols.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.



DANGER DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.



WARNING WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CAUTION CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE indicates information that relates to the protection of property.



This symbol means read the operator's manual carefully before using the equipment. The operator's manual contains important information on the safe and proper operation of the equipment.



This symbol means always wear safety glasses with side shields or goggles when handling or using this equipment to reduce the risk of eye injury.



This symbol indicates the risk of electrical shock.



This symbol indicates the risk of hands, fingers or other body parts being crushed.

General Safety Rules

WARNING

Read and understand all warnings and instructions. Failure to follow all warnings and instructions 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 or dark areas invite accidents.
- **Do not operate tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Tools can create sparks which may ignite the dust or fumes.
- **Keep children and by-standers away while operating tools.** Distractions can cause you to lose control.
- **Keep floors dry and free of slippery materials such as oil.** Slippery floors invite accidents.

Personal Safety

- **Stay alert, watch what you are doing and use common sense when operating tools. Do not use tools while you are tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating tools may result in serious personal injury.

- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.

Tool Use and Care

- **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.
- **Store idle tools out of the reach of children and do not allow persons unfamiliar with the tool or these instructions to operate the tool.** Tools can be dangerous in the hands of untrained users.
- **Maintain tools. 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 repaired before use.** Many accidents are caused by poorly maintained tools.
- **Keep handles dry and clean; free from oil and grease.** Allows for better control of the tool.

Service

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

Specific Safety Information

⚠ WARNING

This section contains important safety information that is specific to this tool.

Read these precautions carefully before using the Press Snap™ Soil Pipe Cutter to reduce the risk of serious personal injury.

SAVE THESE INSTRUCTIONS!

A compartment in the Press Snap cutter carrying case is included to keep this manual with the tool for use by the operator.

Press Snap Cutter Safety

- **Keep others out of work area while cutting. Stand clear of the pipe.** Cutting can cause pieces of pipe to be thrown with considerable force. This can cause striking injuries, eye injuries, or other serious personal injury.
- **Always wear Safety Glasses.** Protects your eyes against dirt and other foreign objects.
- **Read and understand this operator’s manual, the press tool operator’s manual and the warnings and instructions for all equipment being used with this tool before operating.** Failure to follow all warnings and instructions may result in serious personal injury.
- **Only use a RIDGID Standard Series Press Tool with the Press Snap Soil Pipe Cutter.** Use of other tools with the Press Snap cutter may damage the Press Snap cutter or result in serious personal injury.
- **Keep your fingers and hands away from the Press Snap cutter during the cutting cycle.** They can be crushed, fractured or amputated if they become caught between the pipe and cutter or other objects.

Description and Specifications

Description

The RIDGID® Press Snap Soil Pipe Cutter attaches to any RIDGID Standard Series Press Tool to cut most 1.5" to 4" No-Hub and service weight cast iron soil pipe. The Press

Snap cutter uses a unique hooking mechanism to make hooking the chain easier and quicker, reducing set up time. Cuts are usually made in a single cycle of the press tool and require the operator to apply minimal force. This allows repeated cuts to be made quickly.

Specifications

Capacity 1.5" to 4" No-Hub and service weight cast iron soil pipe

Weight..... 8.6 lbs. (3.9 kg) (not including press tool)

Catalog No.	Description	Weight	
		lbs.	kg
34403	Press Snap Soil Pipe Cutter Kit	12	5.4
34678	Case, Press Snap Cutter	3.4	1.5

Overall Length.....10"

Length beyond Press Tool when installed7"

Compatible with all RIDGID Standard Series Press Tools, such as the CT400, 320-E, RP 330-B and RP 330-C.

The Press Snap cutter is limited in cutting range by the fixed force available from the press tool. Other types of pipe (Extra heavy cast iron soil pipe, clay or concrete pipe) or other sizes of pipe may not be able to be cut with the Press Snap cutter.

The RIDGID Press Snap Soil Pipe Cutter is protected under pending patent applications.

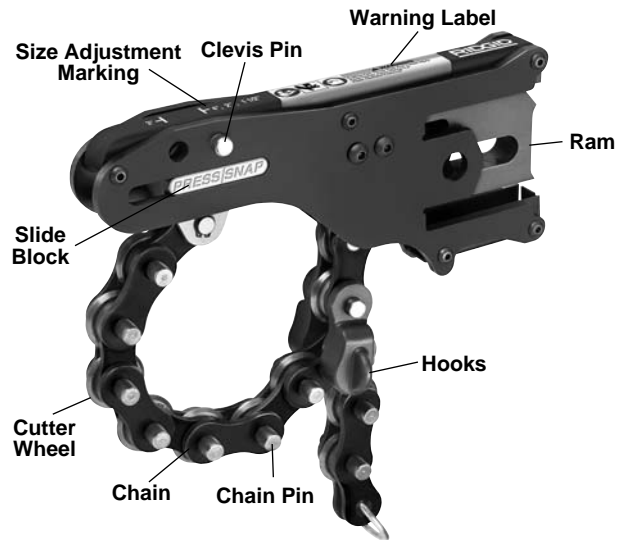


Figure 1 – Press Snap Soil Pipe Cutter

Pre-Operation Inspection/Maintenance

⚠ WARNING

Before each use, inspect and maintain your Press Snap Soil Pipe Cutter and correct any problems to reduce the risk of serious injury from striking or impact injuries and other causes and to prevent tool damage.

1. Remove the Press Snap cutter from the press tool.
2. Clean the soil pipe cutter and remove all dirt, oil, grease and debris. If needed, the chain can be cleaned with a wire brush. This aids in inspection and helps prevent the tool from slipping during use.
3. Inspect the soil pipe cutter for the following items:
 - Proper assembly and completeness
 - Broken, cracked, missing, bent or binding parts
 - Excessive corrosion and wear
 - Smooth, free movement of ram, chain, hooks and linkages
 - Presence and readability of warning labels (See Figure 1).
4. Inspect the chain for signs of overload or other damage. There should be no significant gaps between the plates of the chain. If there are large gaps between the links of the chain or other damage, the chain should be replaced. Check the cutter wheels for wear and damage. Worn and damaged cutter wheels increase cut force and can cause poor quality cuts.
5. Inspect the press tool and any other equipment being used as directed in their instructions.
6. If any problems are found, do not use the soil pipe cutter until corrected.
7. If needed, lubricate pivot points and the chain with a light lubricating oil. Wipe any excess oil off.

Tool Set Up and Operation

⚠ WARNING



Follow set up and operating instructions to reduce the risk of serious injury from striking or impact injuries and other causes and to prevent machine damage.

Keep others out of work area while cutting. Stand clear of the pipe. Cutting can cause pieces of pipe to be thrown with considerable force. This can cause striking injuries, eye injuries, or other serious personal injury.

Always wear eye protection to protect your eyes against dirt and other foreign objects.

Keep your fingers and hands away from the Press Snap cutter during the cutting cycle. They can be crushed, fractured or amputated if they become caught between the pipe and cutter or other objects.

1. Check work area for adequate lighting and a clear, dry, level, stable place to work.
2. Inspect the pipe to be cut. Determine the size and type of material. If cutting pipe that is already in service, determine the pipe contents.
3. Determine the correct pipe cutter for the application. The RIDGID Press Snap Soil Pipe Cutter is designed to cut most 1.5" to 4" No-hub and service weight cast iron soil pipe.
4. Make sure that the Press Snap cutter has been properly inspected.
5. Prepare the pipe to be cut.
 - Take any appropriate steps required to drain the pipe and/or deal with any potential spillage.
 - Clean mud, corrosion or other coatings off of the pipe at the point to be cut. Excessive corrosion, mud or coatings can cause poor quality cuts and damage cutter wheels.
 - Make sure there is enough room to get the chain around the pipe. Approximately 1½" of space is required around the pipe for the chain to fit. If cutting loose pipe, to protect the cutter wheels from damage against concrete or other hard surfaces, place the pipe on short stands or wood blocks to get the pipe off the floor or work on a softer surface like a piece of plywood.
 - When cutting short sections, restrain the pipe to prevent it from being thrown when cut. This can be done by placing a smaller piece of pipe or lumber through the center of the pipe, or by other methods.
6. Adjust the Press Snap cutter for the size of soil pipe to be cut. The size adjustment has two positions. The position closest to the press tool is used for 1.5", 2" and 4", while the position away from the press tool is for 3". To adjust, pull the pin out and move the adjustment block to the other position. Fully insert the pin. (See Figure 2).

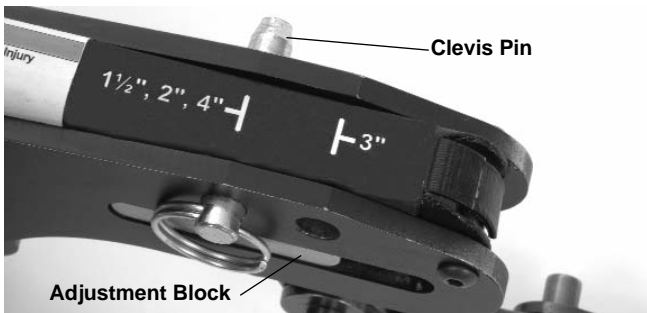


Figure 2 – Size Adjustment

7. Insert the Press Snap cutter into the press tool and power as directed in the press tool operator's manual.
8. If using the Press Snap cutter with a 320-E Press Tool, the tool needs to be calibrated.
 - Depress ON/OFF button on 320-E display panel one time to turn tool ON. All three LED's will blink once and the tool will beep once. Then the green LED on the display should be blinking to indicate that tool needs to be calibrated.
 - With no soil pipe in the cutter, depress the press tool switch and complete one tool cycle. The green LED on the 320-E display panel will continue to glow solid indicating proper calibration. The 320-E is now ready for soil pipe cutting. If the 320-E is shut off, the 320-E mounting pin retracted or the tool alarms, this process will need to be repeated.
9. Confirm that the Press Snap cutter ram is fully retracted. If the cutter wheel mounted to the ram is behind the sideplate, the ram is fully retracted. If the ram cutter wheel is visible past the sideplate, it needs to be fully retracted by running one complete tool cycle. If the ram is not fully retracted, the tool may not cut the pipe. (See Figures 3A and 3B).

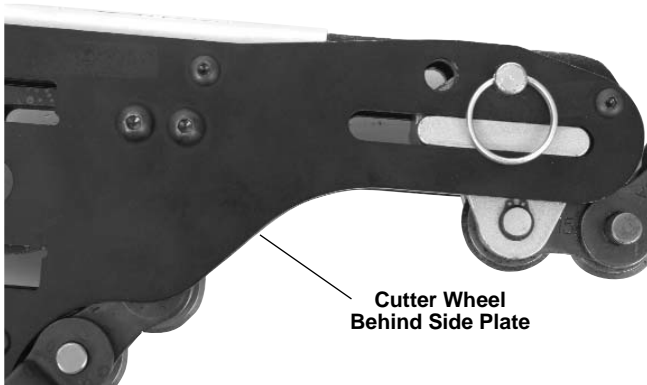


Figure 3A – Ram Fully Retracted



Figure 3B – Not Fully Retracted

10. Choose a spot from which to operate the cutter. Keep in mind that when the pipe is cut, parts of it may be thrown. Make sure that the area is clear of all personnel or any objects that could be struck by pipe. Be aware that when the pipe is cut the soil pipe cutter and pipe could drop or fall.
11. Wrap the Press Snap cutter chain snugly around the pipe at the point to be cut and place the nearest chain pin into the chain hooks. Once the appropriate pin for a given size pipe has been determined, marking the pin (such as with paint) can save time setting up subsequent cuts of the same size.



Figure 4 – Wrapping Chain Around Pipe

12. Verify that the chain is square to the pipe at the desired location. Keep fingers and hands away from the chain and other moving parts to avoid crushing injuries. Depress and hold the press tool switch until the cut is complete.

The cutting cycle takes between 4-8 seconds depending on the press tool. Once the chain tightens around the pipe, the press tool will lock on and automatically complete the cut. Releasing the press tool switch will not stop the once the tool has locked on.



Figure 5 – Cutting The Pipe

Because of differences in press tools, slight variations in operation are required.

- For the RP 330 press tools, after the cut is complete, the tool rollers/ram will need to be retracted. Depress and hold the press tool switch to fully extend the ram and allow it to retract. Every cut will require two pulls of the press tool switch (two tool cycles).
- If a 320-E Press tool gives an alarm after a cut (red LED blinks/tool beeps for 5 seconds), the tool needs to be recalibrated - To recalibrate the 320-E Press Tool, with no soil pipe in the cutter, depress the tool switch and complete one tool cycle. The tool is now ready for cutting. Repeat as needed when alarm occurs.

NOTICE Four consecutive alarms will cause the 320-E to lock up, and the tool will not function again until it has been serviced.

Variation in soil pipe will sometimes prevent a cut from being made in a single cycle. Causes and solutions include:

- The ram was not fully retracted or the chain was not tight enough initially. Makes sure the ram is fully retracted (*See Step 9*) and hook the chain so it is as tight as possible. Depending on the pipe, this may be one chain pin tighter than the marked pin.
- Some thicker walled pipe may require several cycles of the Press Snap cutter to cut. In these cases repeat the cut with the chain in the same position as the first cycle.
- In rare cases, a cut will not be possible, and other methods will need to be used.

Service and Repair

⚠ WARNING

Improper service or repair can make the Press Snap Soil Pipe Cutter unsafe to operate.



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