

IMPORTANT SAFETY INFORMATION ENCLOSED

READ THIS ENTIRE MANUAL PRIOR TO OPERATING TOOL.

FAILURE TO OBSERVE THE FOLLOWING WARNINGS AND INSTRUCTIONS COULD RESULT IN EQUIPMENT DAMAGE, SERIOUS INJURY OR POSSIBLY EVEN DEATH... PUT SAFETY FIRST!

WARNING

- Always wear appropriate PPE while operating tool.
- Impact powered tools vibrate in use. Vibration and repetitive motion may be harmful to arms and hands. Stop using tool if any discomfort, tingling feeling or other pain occurs. Seek medical advice prior to resuming use.
- Always turn off air supply and disconnect supply hose from impact prior to removing, installing or adjusting any component on this tool, or before performing any maintenance on this tool.
- Keep hands, loose clothing and long hair away from the tool in rotational operation.
- Tool will continue to rotate, unengaged, when impact throttle is released.
- Do not lubricate with flammable or volatile liquids such as kerosene or diesel.
- This tool is not insulated against electric shock.
- This tool is not designed for work in explosive atmospheres.
- Anticipate sudden changes in motion during start-up operation of tool.
- This tool can exert strong forces on the operator.

WARNING

The use of other than originally designed replacement parts may result in safety hazards, decreased tool performance, increased tool maintenance and may void all term warranties.

SRT Manufacturing is not responsible for customer's modification of tools for applications on which SRT was not consulted.

Repairs should only be made by authorized, trained personnel. Consult SRT Manufacturing for assistance.

It is the responsibility of the operator's employer to place the information in this manual into the hands of the equipment operator.

The only tool that should be used to rotate the StudPuller is a properly inserted drive tool. Any other tools, such as a pipe wrench, will void the warranty and could permanently damage the StudPuller.

IMPORTANT SAFETY INSTRUCTIONS

WARNING: The SRT StudPuller is extremely powerful under operation and certain safety precautions should be observed to avoid accidents or personal injury. Use the following information as guidelines to assist you:

- **READ ALL INSTRUCTIONS THOROUGHLY.**
- **MAINTAIN A CLEAN AND WELL LIT WORK AREA.**
- **CONSIDER YOUR WORK ENVIRONMENT.** Stud extraction tools should never be used in any atmosphere which may be considered volatile. If any doubt exists, *DO NOT USE THIS TOOL!* Metal to metal contact can cause sparks, which could serve as an ignition source to explosive atmospheres.
- **AVOID PREMATURE TOOL START-UP.** Insure that impact throttle is not engaged. Never lock or tie the throttle handle down in the open operating position.
- **STAY CLEAR DURING OPERATION.** The tool is designed to operate without human assistance. Keep hands and body clear during operation.
- **STORE IDLE TOOLS.** When not in use, tools and accessories should be properly stored to avoid deterioration.
- **USE THE RIGHT TOOL.** Do not force a small tool to do the job of a larger tool. Use the right tool for the application. Do not use tool for purposes unintended.
- **PROPER ATTIRE.** When handling/operating stud extraction tools, wear work gloves, safety glasses with side shield, hard hat, safety shoes, hearing protection and all other applicable safety clothing.
- **MOVING EQUIPMENT.** Only use certified lifting devices to load, unload or move equipment.
- **MAINTAIN TOOLING.** Always inspect tool prior to operation. After operation, tool must be disassembled for re-lubrication and inspection.
- **STAY ALERT.** Be aware of your surroundings. Communicate with others. Use common sense. Do not operate equipment under the influence of drugs or alcohol.
- **PRIOR TO OPERATION:**
 - ✓ Verify that impact tool has a valid inspection and/or maintenance record.
 - ✓ Insure that all air supply lines are secured with safety clips, whip checks and that there is no air leakage or line kinks.
 - ✓ Verify that all internal components of stud extraction tool are secured and in the correct orientation.
 - ✓ Insure that stud extraction tool is secured to impact with retaining pin and rubber O-ring.
 - ✓ Insure all personnel in area are aware of extraction operations.
 - ✓ Obtain all necessary permits to conduct work.

PLACING TOOL IN SERVICE

LUBRICATION

Always insure that the internally machined cam is well lubricated. It is recommended to use the following lubrication for best results:

- **DOW CORNING - MOLYKOTE G-N PLUS PASTE**

Apply a generous amount of lubrication to the internally machined cam surface and rear surface of gripping jaws.

INTERNALLY MACHINED CAM



IMPORTANT NOTE #1: Disassembly of the gripping mechanism is required for cleaning, inspection and re-lubrication of the internally machined cam surface after extraction operations of 20-30 studs or threaded bolts. *(Also see: NOTE #3)*

OPERATION

Always insure that the retaining snap ring is secured in its residing groove and internal components are secure in their correct orientation.

Always insure that the stud extractor is secured to the impact with a retaining pin and rubber O-ring.

INSTALLATION STEPS:

1. Slide the extraction tool over the stud or threaded bolt.
2. Position the tool as parallel and level as possible over the bolt to be extracted.



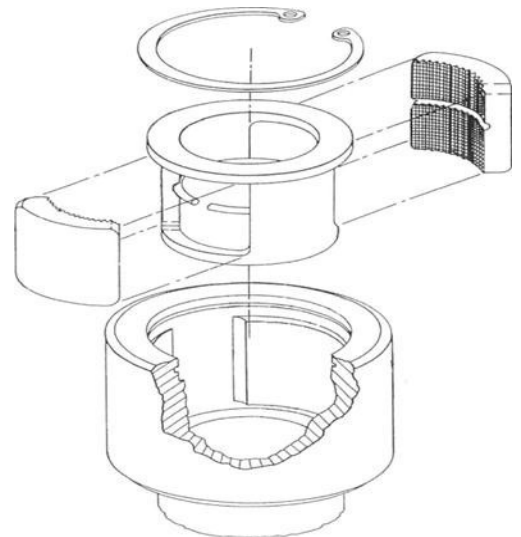
INSTALLATION STEPS: (cont.)

3. Engage impact throttle (REVERSE) for ½ second. (This will cause the internal gripping jaws to slide along the cam groove and engage the stud or threaded bolt and lock into place)
4. Engage impact throttle (REVERSE) until the stud or threaded bolt begins to rotate counter clock-wise and thread out of the housing it resides in. *(SEE NOTE #2)*
5. Once stud or threaded bolt is successfully extracted, engage impact throttle (ADVANCE) until internal gripping jaws release. (Use caution while releasing internal jaws. Stud or threaded bolt may rotate out of tool housing. Insure safety shoes and all other applicable PPE is being worn by personnel conducting extraction operations)

IMPORTANT NOTE #2: DO NOT EXCEED MORE THAN 15 SECONDS OF IMPACT OPERATION AT ONE TIME WITH THIS TOOL.

If the stud or threaded bolt does not begin to rotate after (15) seconds of impact force, it will have to be removed using another removal method. Catastrophic failure to stud extractor equipment and potentially fatal safety hazards exist if this measure is not observed accurately.

DISASSEMBLY



BREAK-DOWN of INTERNAL COMPONENTS

CONTINUE TO NEXT PAGE FOR INSTRUCTIONS

PLACING TOOL IN SERVICE

DISASSEMBLY (cont.)

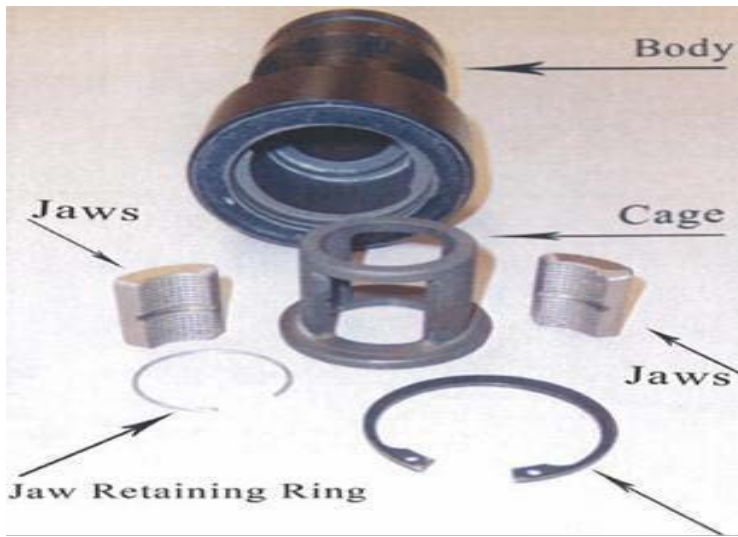
General Instructions

Do not disassemble the StudPuller any further than necessary to replace or repair damaged or worn parts.

Do not disassemble the StudPuller if you do not have the replacement parts necessary for repair.

The stud extraction tool consists of (5) primary components:

1. Tool Body
2. Set of Gripping Jaws (2)
3. Cage
4. Cage Retaining Snap Ring
5. Jaw Retaining Ring



Cage Retaining Snap Ring

JAW REPLACEMENT INSTRUCTIONS

The typical jaw life range is from 75 to 125 *easily extracted* studs or threaded bolts.

If studs or threaded bolts are difficult to remove, the jaw life range will need to be closely monitored by the operator.

STEPS FOR REPLACEMENT

1. Remove cage retaining snap ring.
2. Remove cage assembly from tool body.
3. Remove worn or damaged jaws.
4. Lubricate rear side of new jaws.
5. Insert new jaws into cage assembly, insuring proper orientation

STEPS FOR REPLACEMENT (cont.)

6. Replace the cage assembly back into the tool body, assuring the jaws fall into the internally machined cams.
7. Replace the cage retaining snap ring back into its residing groove.
8. Assure that the jaw retaining ring is fitted into the machined horizontal groove of the jaws and is forcing the jaws outward towards the internally machined cam.
9. Using your fingers, grip the jaws and rotate the cage assembly counter clock-wise, insuring the jaws easily slide along the internally machined cam and provide a minimum over-closure of 1/8th of an inch.

IMPORTANT NOTE #3: Always insure that the cam surface is free from dirt or debris when installing new jaws. Metal shavings can work their way between the cam surface and rear surface of the jaws during operation. These shavings can cause significant damage to the internally machined cam surface if not removed prior to commencing operations.

TROUBLESHOOTING

Problem: The tool rotates freely and will not engage the stud or threaded bolt.

Solutions: **1.** Inspect the jaw orientation to insure that they are not inserted backwards. **2.** The teeth of the jaws are worn and need to be replaced. **3.** The tool is not the correct size for the application.

Question: Can you use the SRT StudPuller to install studs or threaded bolts?

Answer: The SRT StudPuller is available in two models. The SR series is for stud removal and the SI series is for stud installation. The internal cam is machined to allow the jaws to tighten either clockwise or counter clockwise but not both on the same tool.

Question: I do not have the recommended lubrication for the StudPuller. Can I use a substitute lubricant?

Answer: YES. Any industrial grade nickel based anti-seize will provide sufficient lubrication for on-site repairs and maintenance.

IF ANY DOUBT EXISTS ON HOW TO OPERATE THE SRT STUDPULLER, **DO NOT OPERATE!**

Contact SRT Manufacturing at: 281-361-3600

