

Operating Instructions

Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

Air Chisel

Description

Air chisels are designed to remove unwanted material in a variety of locations or to cut through rusted bolts and metal. The air chisels make tough jobs easier because of high air power while the regulator can allow for precision control. This chisel uses standard .401 Parker taper chisel bits.

Unpacking


When unpacking this product, carefully inspect for any damage that may have occurred during transit.

Specifications

Avg SCFM & psi	6 @ 90 psi (55% usage)
Continuous SCFM	.21.9 @ 90 psi (100% usage)
Blows Per Minute	5000
Stroke Length	1-5/8"
Chisel Shank Diameter	.401 Parker Taper
Tool Weight	2.3 lbs.

General Safety Information

This product is part of a high pressure system and the following safety precautions must be followed at all times along with any other existing safety rules.

1. Read all manuals included with this product carefully. Be thoroughly familiar with the controls and the proper use of the equipment. 
2. Only persons well acquainted with these rules of safe operation should be allowed to use the air tool.

CAUTION Do not exceed the maximum oper-

ating pressure of the air tool (90 psi). This can reduce the life of the tool.

3. Do not exceed any pressure rating of any component in the system. Maximum operating pressure of 90 psi is measured at the tool inlet while the tool is running. The pressure drop between the compressor and tool needs to be compensated for at the compressor.
4. Disconnect the air tool from air supply before changing tools or attachments, servicing and during non-operation.

WARNING Safety glasses and ear protection must be worn during operation.



5. Do not wear loose fitting clothing, scarves, neck ties or jewelry when operating any tool. Loose clothing or jewelry may become caught in moving parts and result in serious personal injury.
6. Do not depress trigger when connecting the air supply hose.
7. Always use attachments designed for use with air powered tools. Do not use damaged or worn attachments.
8. Never trigger the tool when not applied to a work object. Attachments must be securely attached. Loose attachments can cause serious injury.
9. Protect air lines from damage or puncture.
10. Never point an air tool at oneself or any other person. Serious injury could occur.
11. Check air hoses for weak or worn condition before each use. Make sure all connections are secure.

WARNING Release all pressure from the system before attempting to install, service, relocate or perform any maintenance.



12. Keep all nuts, bolts and screws tight and ensure equipment is in safe working condition.
13. Do not put hands near or under moving parts.
14. Always secure workpiece in a vise or clamp. Do not place hands on the black cylinder or spring retainer when operating the tool.

WARNING The spring retainer must be used to hold the chisel in place. Personal injury can occur if the chisel is not secure.

Assembly

SYSTEM SETUP

Using fittings or air hoses which are too small can create a pressure drop which will result in a loss of power in the tool.

NOTE: Do not install a quick coupler set between the tool and whip hose.

AIR TOOL SETUP

ALL MODELS

Ensure tool is not connected to air supply, then place tool upside down on workbench.

WARNING Do not misuse this product. Excessive exposure to vibration, work in awkward positions and repetitive work motions can cause injury to hands and arms. Stop using any tool if discomfort, numbness, tingling or pain occur, and consult a physician.

WARNING Never carry a tool by the hose or pull the hose to move the tool or a compressor. Keep hoses away from heat, oil and sharp edges. Replace any hose that is damaged, weak or worn.

Pre-Operation

Air tools require lubrication throughout the life of the tool. Proper lubrication is the owner's responsibility. Use airtool oil to lubricate, clean

Pre-Operation (Cont'd)

and inhibit rust in one step. Failure to lubricate and maintain the air tool properly will dramatically shorten the life of the tool and will void the warranty.

⚠WARNING *This air tool requires lubrication before initial use and before and after each additional use.*

AIR PISTON LUBRICATION

The air piston must be lubricated daily. An air piston cannot be oiled too often.

⚠WARNING *Disconnect the chisel/hammer from the air supply before lubricating.*

1. Turn the chisel/hammer upside down.
2. While pulling the trigger, pour a teaspoon of oil in the air inlet.

⚠WARNING *Cover exhaust port with a towel before applying air pressure. Oil will discharge through the exhaust port during the first few seconds of operation after an airtool has been lubricated. Failure to cover exhaust port can result in serious injury.*

3. Connect the chisel/hammer to the air supply and cover the exhaust port with a towel. Run the chisel/hammer for 7 to 10 seconds. Oil will discharge from the exhaust port when air pressure is applied. If the piston does not cycle, install a bit into the spring retainer. Be careful not to allow the towel to catch in the spring retainer.

Operation

SPRING RETAINER

The spring retainer holds the chisel in place. The retainer must be **securely** attached (See Figure 1). The retainer is a normal wear item and should be replaced when worn. Replace with MP2896 (2) piece chisel spring set. The retainer unscrews for easy chisel insertion.

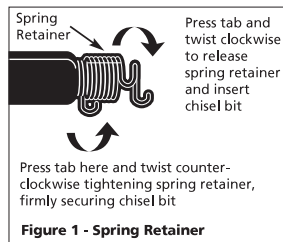


Figure 1 - Spring Retainer

REPARING JAMMED PISTON

1. Tools required include: hammer and punch.
2. Attempt to free jammed piston using punch (See Figure 3).

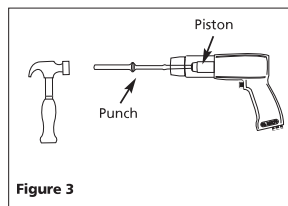


Figure 3

3. If piston is jammed, disassemble barrel from housing. Use punch to push piston through barrel (See Figure 4).

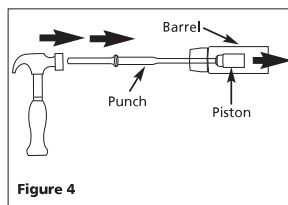


Figure 4

4. Reassemble barrel and piston.

Maintenance

STORAGE

The chisel/hammer must be lubricated before storing. Follow the air piston lubrication instructions with an exception to step 3. Only run the chisel/hammer for 2 to 3 seconds instead of 7 to 10 seconds because more oil needs to remain in the chisel/hammer when storing.

Technical Service

For information regarding the operation or repair of this product, please call 1-800-543-6400. If you are calling from Ohio or outside the continental United States, please call collect: 1-513-367-1182.

NOTE: Any chisel with a .401 Parker taper shank size can be used.

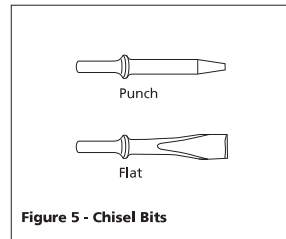


Figure 5 - Chisel Bits

Troubleshooting Chart

Symptom	Possible Cause(s)	Corrective Action
Tool runs slowly or will not operate	1. Grit or gum in tool	1. Flush tool with air tool oil, gum solvent, or an equal mixture of SAE 10 motor oil and kerosene. If air tool oil is not used, lubricate, tool after cleaning
	2. No oil in tool	2. Lubricate tool according to lubrication instructions in the Pre-Operation section
	3. Low air pressure	3. Adjust the compressor regulator to tool maximum while the tool is running free
	4. Air hose leaks	4. Tighten and seal hose fittings if leaks are found
	5. Pressure drops	5. Be sure hose is properly sized. Long hoses or tools using large volumes of air may require a hose with an I.D. of 1/2" or larger depending on total hose length
	6. Regulator set too low	6. Adjust regulator until tool reaches maximum speed
Moisture blowing out of tool	1. Water in tank	1. Drain tank (See air compressor manual). Oil tool and run until no water is evident. Oil tool again and run 1-2 seconds
	2. Water in air lines/hoses	2a. Install a water separator/filter (PA2121). NOTE: Separators work properly only when air steam is cool. Locate separator/filter as far as possible from compressor
		2b. Install an air dryer
	2c. Anytime water enters tool, tool should be oiled immediately	
Chisel/Hammer is jammed and will not move back and forth	1. Chisel/hammer piston and barrel are dirty or rusty	1a. Heavily oil tool to free up piston
		1b. Clean piston and barrel with air tool oil and remove any burrs on piston or barrel surfaces*
2. Chisel/hammer piston and barrel are rusted together		1c. Replace worn piston and cylinder*
		1d. Anytime water enters tool, tool should be oiled immediately
		2. Remove piston and de-rust. Replace piston and cylinder if needed*

* When reassembling the cylinder to the housing, use Loctite® on the cylinder threads.