B10566-00 Tube Ripper

Operating and Maintenance Instructions

⚠ WARNING

Read and Understand Operating Instructions
Before Operating Tool

Elliott Tool Technologies Ltd • 1760 Tuttle Avenue • Dayton, Ohio 45403 U.S.A.
Phone: +1 800 332 0447 • +1 937 253 6133 • Fax: +1 937 253 9189

Elliott Tool Technologies UK Ltd • Broadstone Hill • Old Chalford • Chipping Norton • OXON • OX7 5QL • England
Phone: +44 (0) 1608 672815 • Fax: +44 (0) 1608 672810

Percussion Tool Safety Instuctions

WARNING

To reduce the risk of injury, everyone using, installing, repairing maintaining, changing accessories on, or working near this tool MUST read and understand these instructions before performing any such task.

Elliott Tool Technologies mission is "To be recognized by our customers as the world's best provider of application solutions".

The most important safety device for this or any tool is YOU. Your care and good judgement are the best protection against injury. All possible hazards cannot be covered here, but we have tried to highlight some of the important ones.

For additional safety information consult:

- U.S. Department of Labor, (O.S.H.A.); Council of the European Communities and or local codes.
- Your employer union and/or trade association.
- Safety Code for Portable Air Tools (B186.1) available from: American National Standards Institute, Inc., 11 West 42nd Street, New York, NY 10036.
- Safety Requirements for Hand held Non-Electric Power Tools, available from: European Committee for Standardization, Rue de Stassart 36, 1050 Brussels, Belgium.

Air Supply and Connection Hazards

- Always shut off the supply air to relieve hose air pres sure and disconnect tool from air supply when not in use, before changing accessories or making repairs.
- Air under pressure can cause severe injury.
- Never direct air at yourself or anyone else.
- Whipping hoses can cause severe injury. Always check for damaged or loose hose con nections and fittings prior to starting supply air to tool.
- Do not use quick disconnect couplings at tool. See instructions for correct setup.
- Whenever universal lock couplings are used, lock pins must be installed.
- Do not exceed maximum air pressure of 90 psi/ 6.2 bar or as stated on tool.

Projectile Hazards

- Always wear impact resistant eye and face protection when involved with or near the operation, repair or maintenance of the tool or while changing accessories on the tool.
- Be sure all others in the area are wearing impact resistant eye and face protection.
- Never operate a tool unless the accessory is retained in the tool with a proper retainer. (See Parts List).
- To avoid injury, retainer parts must be replaced when they become worn, cracked or distorted.
- On overhead work wear a safety helmet.

- To prevent damage to the tool and accessory, must be held firmly against the work surface before the tool throttled.
- Always shut-off air supply, relieve hose of air pressure and disconnect the tool from air supply when changing accessories.
- Avoid direct contact with accessory and work surface during and after work as they become heated and sharp. Wear Gloves to protect hands.
- Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
- Holding the accessory with the free hand can be a source of vibration exposure or injury.
- To avoid injury from entanglement, do not wear loose clothing.
- Wear safety shoes, especially when collaring steels or tamping.

Percussion Tool Safety Instuctions

Accessory Hazards

DO NOT DISCARD - GIVE TO USER

• Never use any chisel as a hand struck tool. They are specifically designed and heat treated to be used only with pneumatic hammers.

• Select the correct shank and retainer for the tool being used.

• Never use dull accessories as they require excessive work pressure and can break from fatigue.

• Never cool a hot accessory in water, brittleness and early failure can result.

• This tool and its accessories MUST NOT be modified in any way.

• This percussion tool is not intended for use with any accessories that are not listed in the catalog.

DO NOT DISCARD - GIVE TO USER

• Accessory breakage or tool damage may result from prying. Take smaller bites to avoid getting stuck.

Workplace Hazards

• Slip-Trip-Fall is a major cause of serious injury or even death. Beware of excess hose left on the walking or work surface.

• High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or OSHA regulation (see CFR part 1910).

• Maintain balanced body position and secure footing.

• Repetitive work motions, awkward positions and exposure to vibration can be harmful to hands and arms. If numbness, tingling, pain or whitening of skin occurs, stop using this tool and consult a physician.

• Avoid inhaling dust or debris from work process which can be harmful to your health.

DO NOT DISCARD - GIVE TO USER

• proceed with care in unfamiliar surroundings. Hidden hazards may exist, such as electric or other utility lines.

• This tool is not intended for use in an explosive atmosphere and is not insulated for contact with electrical power sources.

DO NOT DISCARD - GIVE TO USER

B10566-00 Tube Ripper Instructions

Air Supply Instructions
For best performances, 90 PSIG (6.2 bar) of clean dry air is required at the tool with the tool operating. A 1/4 " ID whip hose is supplied with an oiler and filter. For longer hose runs a 3/8" ID is recommended with couplings not to restrict the air flow. An airline pressure regulator is recommended to be mounted as closely as possible to the tool.

Instructions for Safe Operation
BEFORE PLACING THIS TOOL IN OPERATION, READ THE FOLLOWING SECTIONS FROM THE COMPRESSED AIR AND GAS INSTITUTE'S "SAFETY CODE FOR PORTABLE AIR TOOLS." (APRIL 1974)

EYE PROTECTION - Eye and face protection shall be worn at all times while operating power tools.

RETAINERS - A retainer shall be integral with or installed on a percussion tool which, without such a retainer, can eject the chisel, or such equipment, when the tool is operated off the work surface.

QUICK DISCONNECT COUPLINGS - If a quick disconnect coupling is used on a percussion tool it shall be separated from the tool by a whip hose.

OPERATOR INSTRUCTIONS - A percussion tool shall not be operated unless the chisel or other such tool is in position in the tool and in contact with the work piece. Tools shall not be used in such manner that ejection of an accessory might endanger adjacent personnel.

REMOVE ACCESSORY TOOLS - With the air supply removed from the tool and the air from the hose bleed, remove all accessory items.

Preparing for Operation
Daily before using and after each eight hours of service disconnect the air hose from the chipping hammer. Loosen the fill cap on the oiler and fill full with the recommended air oil.

The use of synthetic oils are not recommended because of possible damage to seals and o-rings.

Recommended Lubricants

Elliott Tool Pneumatic Tool Oil Number 90082P
16oz. (Grade 10W/NR).

If the recommended oil is not available, use a turbine or spindle grade oil with a viscosity of 100-150 SUS at 100 degrees Fahrenheit which contains a rust inhibitor.

Loss of Power/Erratic Action
Loss of power and erratic action may be caused by factors outside the tool proper. Make the following checks:
Check air pressure - for rated performance 90 PSIG (6.2 bar) air pressure AT THE TOOL is required with the tool operating.
A drop in air pressure may be caused by lowered compressor output, excessive drain on the air line or by the size of the operating hose or connections. A faulty hose may also be suspect to lower air pressure.
Check for dirty or wet air. Excessive moisture in the supply air tends to wash lubricant away from the working parts of the tool and rust or corrode the interior of the tool. Grit will damage the interior by scoring closely fitted parts, and effect the action of the tool.
If the above is found to be in order, check the oiler for oil, if dry add recommended oil and run the tool to flush accumulated grit out the exhaust. Take caution when performing this action to direct the tool exhaust away from the operator and adjacent personnel.

If outside factors are not to blame, return the tool to the Elliott Tool distributor the tool was purchased or directly back to Elliott Tool for evaluation.

Maintenance
As with any tool to keep in first class operating condition, regular inspection and immediate repair of minor faults will avoid extensive future repairs.

To keep this tool in highest operating condition:
1. Keep the tool regular lubricated.
2. Provide regulated dry, clean air at the tool.
3. Setup and maintain an inspection and repair sched ule at intervals governed by the degree of use to which the tool is subjected.

Repair Instructions
Refer to the parts page located on page 6 to assist you in making rapid repairs to this tool.

Throttle Valve Leakage
Most valve leakage is due to worn or torn o-rings in the throttle valve assembly. To replace the o-rings, place the tool place in a soft jaw vice, remove (9) retaining pin, pull the valve assembly from the gun's handle by pulling (15) trigger button. Disassemble the valve body ,discard the old o-rings, inspect the valve stem, valve body for grit and/or debris. If scratched or parts show extreme wear replace immediately. Apply seal glide or petroleum jelly on new o-ring seals (11) and (12), install new o-rings and reassemble in reverse order.

Piston Leakage

Piston leakage stems from grit and/or debris interfering with movement of the piston. (See loss of power/erratic action on page 4 and follow instructions).

Piston Leakage

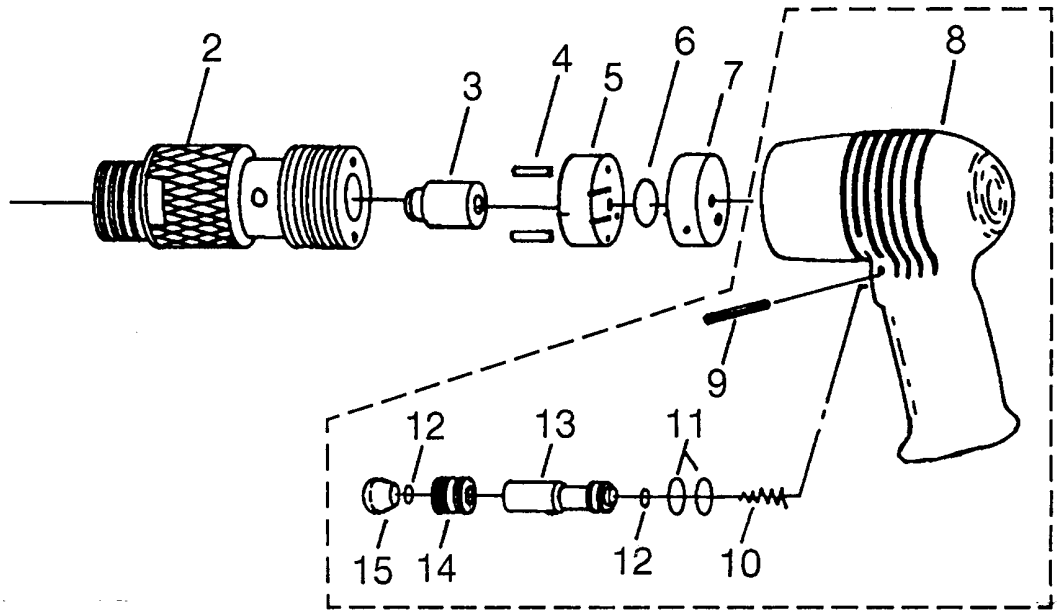
Piston leakage stems from grit and/or debris interfering with movement of the piston. (See loss of power/erratic action on page 4 and follow instructions). If this does free the piston's movement and or the tool's performance is still lacking the piston (3), barrel (2) may need replaced, coupled with throttle valve o-rings.(See Throttle Valve Leakage on page 4)

To replace the piston (3) and the barrel (2), place the gun in a soft jaw vice and with the aid of an adjustable wrench, un-thread the barrel (2) from the handle (8). Items (4), (5), (6) and possibly (7) will become exposed. If these exposed components are not easily disassembled, it may be necessary to spray or soak the assembly with solvent to loosen the components so they may be inspected and replaced as necessary. Apply a light coating of recommended air oil on components and reassemble in reverse order.

B10566-00 Tube Ripper Specifications:

20 CFM @ 90 PSI (6.2bar)
Air Supply Hose Size 5/16" (8mm) ID.
Weight 4lbs. (1.82Kg)

B10566-00 Tube Ripper Kit



Item Number	Part Number	Description	Qty. Req.
1	B10566-00	Tube Ripper Kit	
2	35-425620	Barrel	1
3	35-112020	Piston	1
4	35-111230	Retaining Pin	2
5	35-121110	Lower Valve Block	1
6	35-121010	Valve Disk	1
7	35-121130	Upper Valve Block	1
8	35-262298	Handle	1
9	35-111230	Retaining Pin	1
10	35-118020	Spring	1
11	35-115160	O-Ring	2
12	35-115120	O-Ring	2
13	35-120220	Valve Stem	1
14	35-120120	Valve Body	1
15	35-120310	Trigger Button	1
*16	P5370N	Hose	1
*17	P5370M	Hose Adapter	1
*18	35-5130	Chisel Retainer	1
*19	35-907	Ripper Chisel	1
*20	35-400250	Lubricator	1
*21	153G	Carrying Case	1
* Items Not Shown			

This page Intentionality Left Blank

Elliott offers a complete line of precision tube tools, including:

tube expanders

- Boiler Expanders
- Heat Exchanger Expanders
- Condenser Expanders
- Refinery Expanders

tube rolling motors & torque controls

- Electric
- Pneumatic

tube cleaners

- Air & Water Driven Motors (Internal/External Drives)
- Jiffy Guns ("Shoot-Thru" Devices)
- Roto-Jet (Rotating Flex Shaft)

additional products

- Tube and Joint Testers
- Tube Plugs (High & Low Pressure)

retubing tools

- Tube Gauges
- Tube Cutters
- Manual Tools
- Spear Type Tube Pullers
- Collet-Type Tube Pullers
- CYCLGRIP Tube Extractors
- Grooving Tools
- End-Prep Tools

metal working products

- Back Chamfering Tools
- Carbide Roller Burnishing Tools
- Diamond Burnishing Tools
- Elliptical Deburring Tools
- Fine Boring Tools
- Internal Recessing Tools
- Magic Vise
- Mechanical Joining Tools
- Roller Burnishing Tools
- Single Blade Reamers

ELLIOTT TOOL TECHNOLOGIES

P.O. Box 1165-45401 • 1760 Tuttle Avenue • Dayton, Ohio 45403-3428 USA
Phone: +1 937 253 6133 • +1 800 332 0447 • Fax +1 937 253 9189
www.elliott-tool.com