



Universal Tool

Operator Instructions

Includes - Foreseen Use, Work Stations, Putting Into Service, Operating, Dismantling, Assembly and Safety Rules

Manufacturer/Supplier
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Important

Read these instructions carefully before installing, operating, servicing or repairing this tool. Keep these instructions in a safe accessible place.

Product Type
0.401 Shank Air Hammer

RPM
Cycles Per Min
3,500



Model No/Nos
UT8612-B Round Shank
UT8613-B Hex Shank

Serial No

Product Nett Weight

3.52 lbs
1.6 Kg

Recommended Use Of
Balancer Or Support

No

Recommended Hose Bore
Size - Minimum

3/8 Ins **10** M/M

Recommended Max.
Hose Length

30 Ft **10** M

Air Pressure

Recommended Working	6.3	bar	90	PSI
Recommended Minimum	n/a	bar	n/a	PSI
Maximum	7.0	bar	100	PSI

Noise Level **Sound Pressure Level 102.7 dB(A)**
Sound Power Level 115.0 dB(A)

Test Method **Tested in accordance with Pneurop**
test code PN8NTC1 and ISO Standard 3744

Personal Safety Equipment

Use - Safety Glasses	Yes
Use - Safety Gloves	Yes
Use - Safety Boots	
Use - Breathing Masks	
Use - Ear Protectors	Yes

Vibration Level **13.0** Metres / Sec²

Test Method **Tested in accordance with ISO**
standards 8662 Parts 1 & 2

Foreseen Use of the Tool

The tool is designed for the purpose of chipping, riveting and scaling of metals and stone. In general terms a reciprocating free piston in the cylinder of the tool imparts a blow to the chisel or working attachment. A list of suitable equipment to use with this tool can be provided by the manufacturer. Do not use the tool for any other purpose than that for which it was designed without consulting the manufacturer or the manufacturer's authorised representative.

Do not modify the tool for its use as a chipper etc. or for any other purpose without first agreeing any such modification with the manufacturer or the manufacturer's authorised representative.

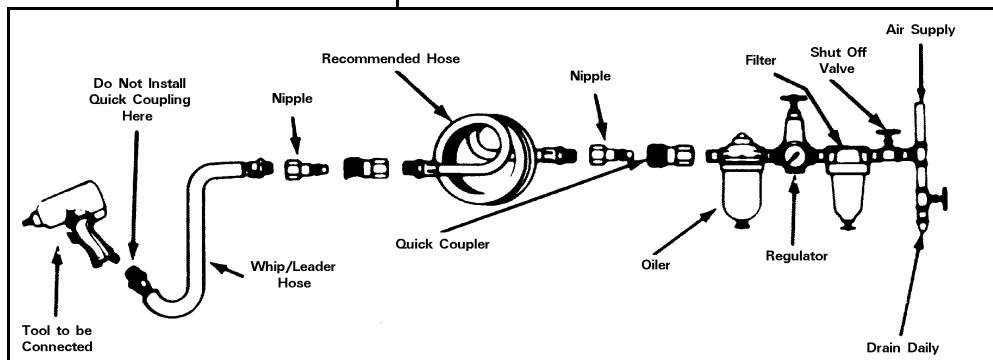
Putting Into Service

Air Supply

Use a clean lubricated air supply that will give a measured air pressure at the tool of 90 p.s.i./6.3 bar when the tool is running with the trigger fully depressed. Use recommended hose size and length. It is recommended that the tool is connected to the air supply as shown in figure 1. Do not connect the tool to the air line system without incorporating an easy to reach and operate air shut off valve. The air supply should be lubricated. It is strongly recommended that an air filter, regulator, lubricator (FRL) is used as shown in Figure 1 as this will supply clean, lubricated air at the correct pressure to the tool. Details of such equipment can be obtained from your supplier. If such equipment is not used then the tool should be lubricated by shutting off the air supply to the tool, depressurising the line by pressing the trigger on the tool. Disconnect the air line and pour into the intake bushing a

Work Stations

The tool should only be used as a handheld, hand operated tool. It is always recommended that the tool is used when standing on a solid floor. It can be used in other positions but before any such use, the operator must be in a secure position having a firm grip and footing and be aware of a reaction force on the hand as result of the tool doing work.



teaspoonful (5ml) of a suitable pneumatic motor lubricating oil preferably incorporating a rust inhibitor. Reconnect tool to air supply and run tool slowly for a few seconds to allow air to circulate the oil. If tool is used frequently lubricate on daily basis and if tool starts to slow or lose power.

It is recommended that the air pressure at the tool whilst the tool is running is 90 p.s.i./6.3 bar. The tool can run at lower and higher pressures with the maximum permitted working air pressure of 100 p.s.i./7.0 bar.

Operating

Connect tool to clean supply of compressed air at recommended pressure. Select chisel/attachment to perform the work task and ensure that the chisel retainer is securely fitted. Do not use tool without retainer fitted. The power of the tool may be adjusted by use of air regulator (20). Always ensure that the working tool is in contact with the workpiece before pressing the trigger. Running the tool free will reduce tool life by placing unnecessary high loads on tool retainers and cylinders.

Dismantling & Assembly Instructions

Disconnect tool from air supply.

Grip the flats on cylinder (37) and unscrew safety chuck (40), quick change chuck (41), spring retainer (42) or needle scaler attachment (43) according to type fitted. Take out chisel or adaptor.

Grip cylinder (37) in a vice with handle (21) uppermost and unscrew handle (21) from cylinder (37). Take off valve assembly from top of cylinder (37) noting dowel location and separate into parts pins (32) and (33), valve disc (35), lower valve case (34) and upper valve case (31). Remove cylinder (37) from vice and tip out piston (36). Tap out 2 off pins (2) to remove trigger (13) and screw out regulator (24) and 2 off o-rings (19). Unscrew intake bushing (27) and remove spring (26), ball (16), push rod (25) and ball seat (14).

Reassembly

Clean all parts and examine for wear. Replace any components with parts supplied by the manufacturer or the manufacturer's authorised representative. Coat all parts with a pneumatic tool lubricating oil, one preferably containing a rust inhibitor and assemble in the reverse order. Fit chisel or attachment as required.

Safety Rules For A Percussive Air Hammer

- 1) Read all the instructions before using this tool. All operators must be fully trained in its use and aware of these safety rules.
- 2) Do not exceed the maximum working air pressure.
- 3) Use personal safety equipment.
- 4) Use only compressed air at the recommended conditions.
- 5) If the tool appears to malfunction remove from use immediately and arrange for service and repair.
- 6) If the tool is used with a balancer or other support device ensure that it is fixed securely.
- 7) Always keep hands away from the working attachment fitted to the tool.
- 8) The tool is not electrically insulated. Never use the tool if there is any chance of it coming into contact with live electricity.
- 9) Always when using the tool adopt a firm footing and/or position and grip the tool firmly to be able to counteract any forces or reaction forces that may be generated whilst using the tool.
- 10) Use only correct spare parts. Do not improvise or make temporary repairs.
- 11) Do not lock, tape, wire, etc. the on/off valve in the run position. The trigger/lever etc. must always be free to return to

the 'off' position when it is released.

12) Always shut off the air supply to the tool, and depress the trigger/lever etc. to exhaust air from the feed hose before fitting, adjusting or removing the working attachment.

13) Check hose and fittings regularly for wear. Replace if necessary. Do not carry the tool by its hose and ensure the hand is remote from the on/off control when carrying the tool with the air supply connected.

14) Take care against entanglement of moving parts of the tool with clothing, ties, hair, cleaning rags, etc. This will cause the body to be drawn towards the tool and can be very dangerous.

15) It is expected that users will adopt safe working practices and observe all relevant legal requirements when installing, using or maintaining the tool.

16) Do not install the tool unless an easily accessible and easily operable on/off valve is incorporated in the air supply.

17) Take care that the tool exhaust air does not cause a problem or blows on another person.

18) Never lay a tool down unless the working attachment has stopped moving.

19) Never point a tool at any person.

20) Use only suitable pneumatic tool lubricants. This is important as a safeguard against the "diesel effect" i.e. explosive mixtures firing.

21) Chisels worn/blunt at the cutting edge or shank should not be used as such conditions promote tool breakage, reduce efficiency and increase vibration. A chisel which breaks can cause injury by creating unexpected movement.

22) When chipping or scaling in potentially explosive atmospheres use spark resistant chisels usually made of beryllium copper. Consult the manufacturer of the tool standard chisels about sources of supply.

23) Do not store chisels etc. at freezing and below freezing temperatures. Freezing temperatures can make hardened-tool steels brittle which can cause breakage and lead to injury.

24) Do not start tool until steel/chisel/needles are in contact with the working surface. Do not run tool unless retainer is fitted.

25) Always use tool with a whip hose as shown in fig 1.

26) Don't over reach. Keep proper footing and balance at all times.

27) Do not force the tool but allow it to cut.

28) When possible secure work with clamps or vice so both hands are free to operate the tool.

29) Use only 0.401" diameter shank size chisels or adaptors.

30) Be aware that prolonged exposure to vibration can cause injury.

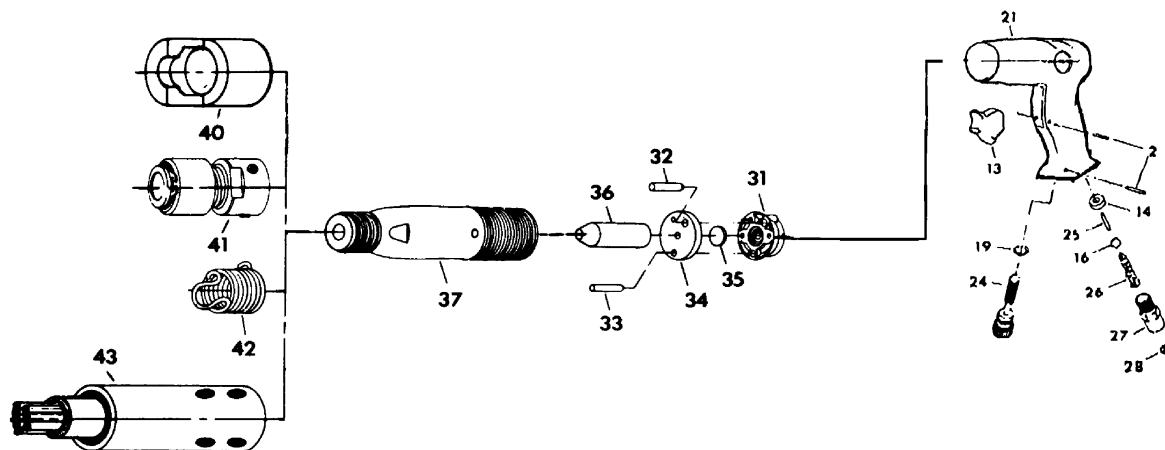


UT8612-B

0.401" Shank Air Hammer (Round Shank)

UT8613-B

0.401" Shank Air Hammer (Hex Shank)



Ref No	Part No	Description
2	729006	Pin (2)
13	729439	Trigger
14	729871	Ball Seat
16	1001391	Ball
19	732504	O-Ring (2)
21	105021	Handle
24	104024	Regulator
25	104025	Push Rod
26	104026	Spring
27	104027	Intake Bushing
28	104028	Screen
20	732603	Regulator
20	732603	Regulator
31	731030	Upper Valve Case
32	729874	Valve Pin (Large)
33	729875	Valve Pin (Small)
34	731032	Lower Valve Case
35	732031	Valve Disc
36	729876	Piston
37	729877	Medium Cylinder - Round
	731185	Medium Cylinder - Hex
40	H0035	Safety Chuck
41	H0045	Quick Change Chuck
42	512	Spring Retainer
43	H0044	Needle Scaler Attachment

Universal Air Tool Company Limited

declare under our sole responsibility that the product

to which this declaration relates is in conformity with the following standard(s) or other normative document(s)

following the provisions of **89/392/EEC as amended by 91/368/EEC & 93/44/EEC Directives**

D.H.Moppett (Man. Director)

Place and date of issue

Name and signature or equivalent marking of authorised person

Notes

Distributor