Universal Tool

Operator Instructions

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

Important

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

Manufacturer/Supplier

Universal Air Tool Company Limited
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Tel No **(01494) 883300** Fax No **(01494) 883237**

Product Type	RPM	
Pistol Impact Screwdriver	**9,500** Cycles Per Min	CE

Model No/Nos	Serial No
UT8226	

Product Nett Weight	Recommended Use Of Balancer Or Support	Recommended Hose Bore Size - Minimum	Recommended Max. Hose Length
3.20 lbs		**3/8** Ins **10** M/M	**30** Ft **10** M
1.45 Kg	**No**		

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 88.0 dB(A)**

Test Method **Tested in accordance with Pneurop test code PN8NTC1**

Personal Safety Equipment

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

Vibration Level **4.7** Metres / Sec^2

Test Method **Tested in accordance with ISO standard 8662**

Foreseen Use Of Tool

These screwdrivers are designed for the tightening and loosening of threaded fasteners within the range as specified by the manufacturer. They should only be used in conjunction with appropriate screwdriver bits and fastener drivers.
Do not use the tool for any other purpose than that specified without consulting the manufacturer or his authorised representative.

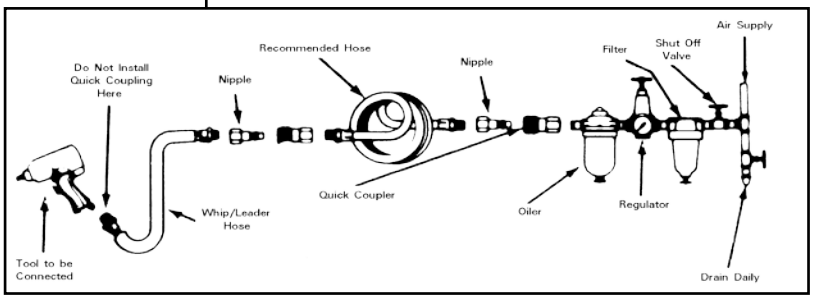
Work Stations

The tool should only be used as a hand held, 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. The operator must adopt a firm grip sufficient to resist the torque reaction of the tool, i.e. the tool will try to turn in the hand. The operator must also be aware that when loosening fasteners, the tool can move quite quickly away from the fastener being undone. An allowance must be made for this rearward movement to avoid hand entrapment. The operator must also make allowance that if the tool does turn in the hand, the hand is not trapped against any rigid object.

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 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

Select the correct screwdriver bit or fastener to suit the screw or fastener to be tightened or loosened. Pull the knurled sleeve of slip chuck forward and insert the appropriate bit.
This model does not incorporate an adjustable slip chuck to control the torque output applied to the fastener. The only way to control the torque output to the tool is to control the air pressure fed to the tool. It is therefore recommended that this tool is used in conjunction with a PRV (pressure reducing valve) that can be adjusted to vary the input pressure. The lower the set input air pressure fed to the tool, the lower the output torque. Your supplier can provide information on suitable PRV's. To set up the tool to apply a particular torque to a fastener, first lower the air pressure to say 2 bar (30 p.s.i.) and try the tool in the application. If the joint is not tightened sufficiently then increase the air pressure in say 0.5 bar (7.5 p.s.i) increments until the correct tightness of the joint is achieved. Every time an increase in pressure is applied start the joint from its loose condition and not to a partially tightened joint. Do not set the tool to an air pressure in excess of 7 bar (100 p.s.i.).
Be aware that when using this type of "stall torque" screwdriver the operator will feel a torque reaction on the hands. This must be appreciated on the first use and the tool should be held sufficiently tightly to resist this torque reaction but only grip the tool sufficiently to resist the torque reaction. Do not "overgrip" the tool and be aware that this torque reaction will increase with increase in air pressure.

Tool Maintenance

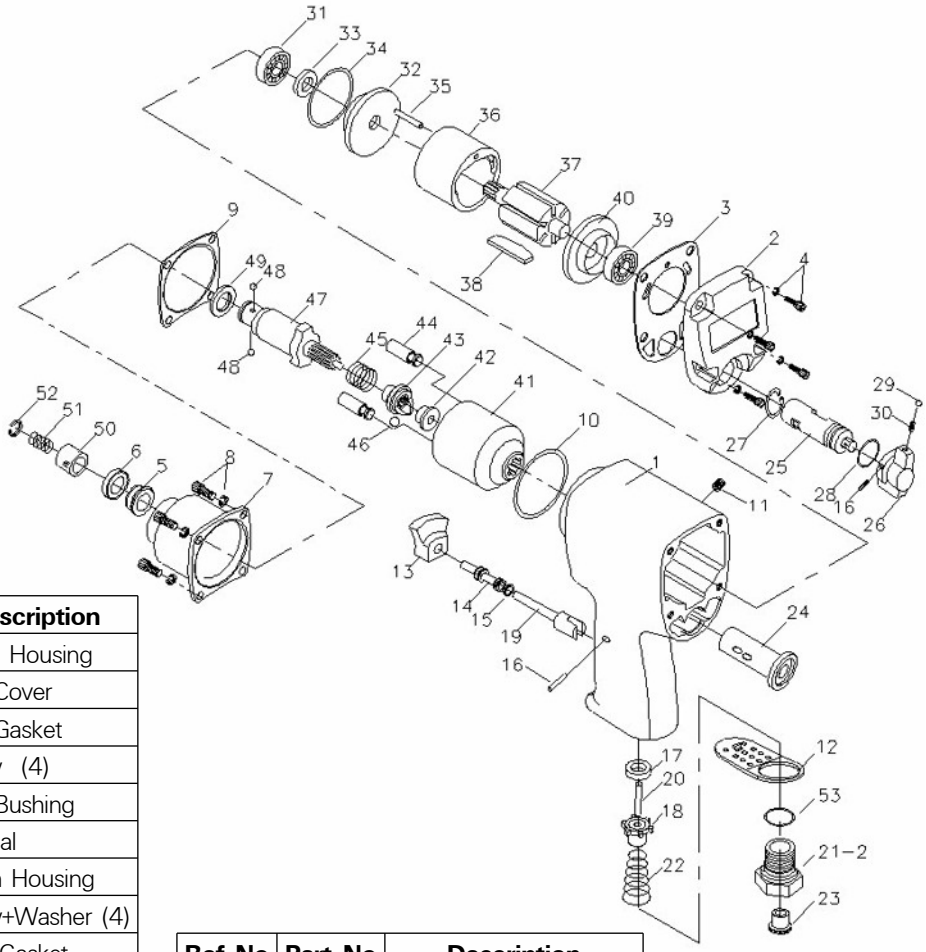
It shall be the tool owner's and/or employer's responsibility to assure that tools are maintained in a safe operating condition. Tool maintenance and repair shall be performed by authorised, trained, competent personnel. Tools shall be disconnected from their compressed air supply before repairs are attempted. Repairs shall be consistent with the manufacturer's recommended procedures. Tool, hoses and fittings shall be replaced if unsuitable for safe operation. It shall be the tool owner's and/or employer's responsibility to keep required rating markings and warnings on the tool in legible condition.

Safety Rules For A Screwdriver

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) Always ensure that the reverse button is in the selected position before starting the tool.
20) Do not use bits or sockets with excessive wear to the input and output drives. Make sure the bit, socket, extension is firmly fixed to the tool.
21) When loosening fasteners first ensure that there is sufficient clearance behind the tool to avoid hand entrapment. The tool will move away from the threaded joint as the nut/bolt is loosened and rides up the thread moving the tool with it.

Universal Tool

UT8226 Pistol Impact Screwdriver



Ref No	Part No	Description
1	8226-01	Motor Housing
2	8226-02	Rear Cover
3	8226-03	Rear Gasket
4	8226-04	Screw (4)
5	8226-05	Anvil Bushing
6	8226-06	Oil Seal
7	8226-07	Clutch Housing
8	8226-08	Screw+Washer (4)
9	8226-09	Front Gasket
10	8226-10	O-Ring
11	8226-11	Clamp Screw
12	8226-12	Muffle Cover
13	8226-13	Trigger
14	8226-14	Trigger Base
15	8226-15	O-Ring
16	8226-16	Spring Pin (2)
17	8226-17	Throttle Bushing
18	8226-18	Valve Stem
19	8226-19	Throttle Pin
20	8226-20	Valve Pin
21-02	8226-21	Hose Fitting
22	8226-22	Spring
23	8226-23	Dust Cover
24	8226-24	Valve Sleeve
25	8226-25	Reverse Valve
26	8226-26	Lever Reverse
27	8226-27	Retaining Ring
28	8226-28	O-Ring
29	8226-29	Steel Ball
30	8226-30	Spring
31	8226-31	Ball Bearing

Ref No	Part No	Description
32	8226-32	Front End Plate
33	8226-33	Oil Seal
34	8226-34	O-Ring
35	8226-35	Cylinder Pin
36	8226-36	Cylinder
37	8226-37	Rotor
38	8226-38	Rotor Blade (6)
39	8226-39	Bearing
40	8226-40	Rear End Plate
41	8226-41	Hammer Cage
42	8226-42	Drive Cam Base
43	8226-43	Drive Cam
44	8226-44	Hammer Bar (2)
45	8226-45	Spring
46	8226-46	Steel Ball
47	8226-47	Bit Holder
48	8226-48	Steel Ball (2)
49	8226-49	Anvil Washer
50	8226-50	Sleeve
51	8226-51	Spring
52	8226-52	Retaining Ring
53	8226-53	O-Ring

Declaration of Conformity

Universal Air Tool Company Limited

Unit 8, Lane End Industrial Park, High Wycombe, Bucks, HP14 3BY, England

declare under our sole responsibility that the product

UT8226 Pistol Impact Screwdriver, Serial Number

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

EN792 (Draft), EN292 Parts 1 & 2, ISO 8662 Parts 1, 2 & 14, Pneurop PN8NTC1

following the provisions of **Directive 2006/42/EC**

Lane End — Place of issue

ARTHUR PATERSON — For and on behalf of the company

Accessories

Distributor

Notes