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

Tel No **(01494) 883300** Fax No **(01494) 883237**

Product Type	RPM	CE
10mm Belt Sander	**16,000** Cycles Per Min **N/A**	

Model No/Nos	Serial No (if any)
UT5764	

Product Nett Weight	Recommended Use Of Balancer Or Support	Recommended Hose Bore Size - Minimum	Recommended Max. Hose Length
1.72 lbs **0.78** Kg	**No**	**3/8** Ins **10** M/M	**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 85.0 dB(A)**
Sound Power Level 96.0 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
Use - Safety Boots
Use - Breathing Masks **Yes**
Use - Ear Protectors

Vibration Level **Less than 2.5** Metres / Sec^2

Test Method **Tested in accordance with ISO standard 8662/1**

Foreseen Use of the Tool

The tool is designed for the purpose of cleaning or sanding of materials using a continuous abrasive belt. Belts are available in various grades to suit fine finishing or fast material removal.
Do not use the tool for any other purpose than that for which it was designed. Do not modify this tool for any other use or for its use as a belt sander without first consulting the manufacturer or the manufacturer's authorised distributor.

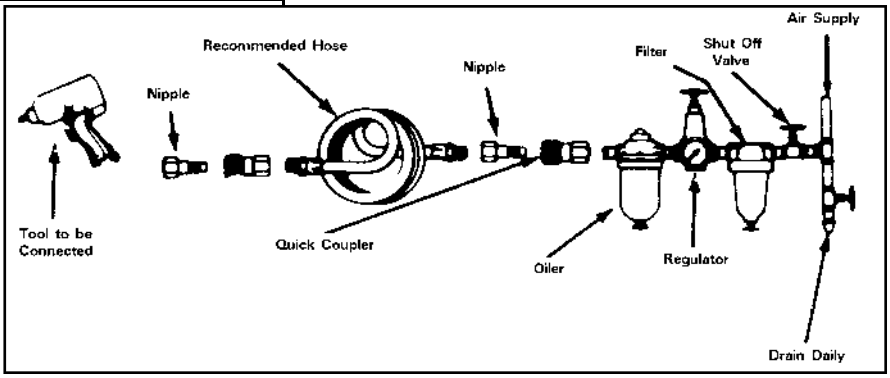
Work Stations

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 and be aware of the safety rules to be obeyed when using the sander.

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/lever 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 air inlet 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 bar.



Operating

Select a suitable abrasive belt of the required grade to achieve a fine sanded finish or high metal removal. The belt size for this tool is 10 mm wide x 330 circumference (continuous belt) and is available in various grades, the lowest is grade 40 grit which is coarse for high material removal and grits are available as 40, 50, 60, 80, 100 and 120. The coarseness of the grit decreases as the grade number increases, hence 40 is coarse and 120 very fine.

To fit a belt, press down the tension bar and push the idle pulley towards the tool until the tension bar clicks into place which releases the tension and holds the tension off the belt. Fit the belt ensuring that it sits centrally on the drive pulley and the idle pulley. Release the tension bar to tighten the belt. Start the tool slowly and use the adjusting screw (8) to align the belt centrally.

Apply the sander lightly to the work and allow the belt to cut. Take great care when sanding around sharp edges and corners to avoid snagging and belt damage or breakage. It is always recommended to use safety glasses and a breathing mask. The sanding of certain materials may create a hazardous dust which may require special breathing equipment. Check before using the tool.

Even if the tool has a low noise level, the actual sanding process may create a noise such that hearing protectors should be worn.

If there are sharp edges on the material being sanded then safety gloves are recommended.

Do not continue to use belts that are clogged or worn as this will make the sanding process inefficient and the need to apply unnecessarily high loads to the tool.

Only use belts of the dimensions specified. To use an incorrect belt will either cause it to break or fly off. Both occurrences could be dangerous.

Dismantling & Assembly Instructions

Disconnect tool from air supply.

Press on the end of idle pulley (2) until it clicks into place and remove the tension from the grinding belt (1). Remove screw (13) and take off shoe (12). Unscrew idle pulley shaft and idle pulley (2) being very careful not to lose the very small washer (3). Remove screw (8). Tap out one off pin (10) and remove bracket (5) and spring (9). Unscrew socket head screw (7) from bracket (10). Tap out pin (43) and remove tension bar (40) and spring (41) and lever pin (42). Lever pin (42) can be tapped out of tension bar (40) if a replacement is required. It is then possible to pull out tension bar (6). Tap out a second pin (10) from tension bar (6). Remove spring (11) from tension bar (6). Remove cap screw (15) and rubber flap may be removed from guard (14). Tap out lever pin (30) and remove throttle lever (29). Unscrew valve body (31) with valve stem (35). Remove O-ring (33) from valve body (31) and O-rings (34) and (36) from valve stem (35). Take out spring (37). Unscrew air inlet (39) and take off deflector (38). Take off guard assembly (14) from housing (18). Do not remove the brass bushing from guard assembly (14). It is then required to remove end cap (23). This component is screwed and glued in place. It is advised to apply local heat to the end cap (23) and the part of housing (18) into which it locates to ease removal. Locate a pin in the hole in the side of drive pulley (17) and grip it and with a socket unscrew nut (16). Pull off drive pulley (17). Remove key (22). Tap the end of rotor (28) to drive the motor assembly out of housing (18). Remove front end plate (20) and bearing (19) and spacer (21) from rotor (28). Take off cylinder (26) and remove 4 off rotor blades (27). Support rear end plate (25) and tap non threaded end of rotor to drive it through the rear end plate (25). Tap out bearing (19) from front end plate (20) and bearing (24) from rear end plate (25).

Reassembly

Clean all parts and examine for wear and damage. Replace any parts with parts obtained from the manufacturer or an approved representative. Reassemble in the reverse order, fit belt and adjust.

Safety Rules For A Sander

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.

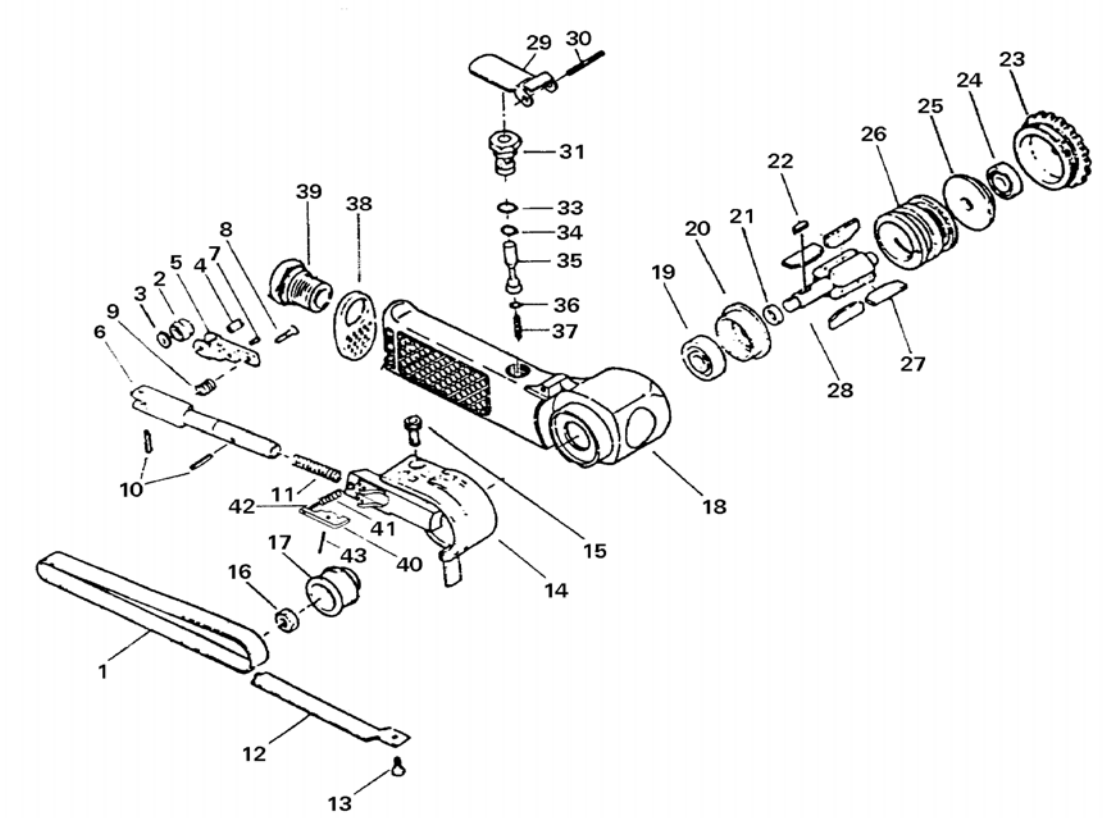
16) Do not install the tool unless an easily accessible and easily operable on/off valve is incorporated in the air supply.

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.

Universal Tool

UT5764 10mm Belt Sander



Ref No	Part No	Description
1	5764001	Grinding Belts (80/100/120) (3)
2	5764002	Idle Pulley 10 Sub Assembly (Set)
3	5764003	Washer
4	5764004	Idle Pulley Shaft 10
5	5764005	Bracket 10
6	5764006	Tension Bar (10)
7	5764007	Hex Socket Headless Set Screw 3 x 6
8	5764008	Cross-Rec Flat Head Machine Screw 3 x 8
9	5764009	Spring 1.0x7.2x6.5
10	5764010	Spring Pin 3x10 (2)
11	5764011	Spring 1.07x4.0x35.5
12	5764012	Shoe 10
13	5764013	Cross-Rec Pan Head Mach Screw 4x8
14	5764014	Guard Sub Assembly A (Set)
15	5764015	Hexagon Socket Head Bolt 5 x 12
16	5764016	Hexagon Nut M6
17	5764017	Drive Pulley
18	5764018	Housing
19	5764019	Ball Bearing
20	5764020	End Plate B
21	5764021	Spacer 8x11x3
22	5764022	Sunk Key 3x3x10

Ref No	Part No	Description
23	5764023	Motor Nut
24	5764024	Ball Bearing
25	5764025	End Plate A (Set)
26	5764026	Cylinder
27	5764027	Blade Assembly (4/Set)
28	5764028	Rotor
29	5764029	Throttle Lever
30	5764030	Lever Pin
31	5764031	Valve Body (Set)
33	5764033	O-Ring
34	5764034	O-Ring
35	5764035	Valve Stem
36	5764036	O-Ring
37	5764037	Valve Spring
38	5764038	Defrector
39	5764039	Air Inlet
		Hexagon Wrench Key 4
		Hexagon Wrench Key 1.5
		Hose Nipple NPT 1/4" x 3/8"
40	5764040	Tension Bar (Set)
41	5764041	Spring
42	5764042	Lever Pin
43	5764043	Lever Pin

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

Model UT5764 10mm Belt Sander, 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 Part 1, Pneurop PN8NTC1

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

Lane End — Place and date of issue

ARTHUR PATERSON — Name and signature or equivalent marking of authorised person

Accessories

Notes

Distributor