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
20mm Belt Sander

RPM
16,000
Cycles Per Min

CE

Model No/Nos
UT5765

Serial No (if any)

Product Nett Weight	Recommended Use Of Balancer Or Support	Recommended Hose Bore Size - Minimum	Recommended Max. Hose Length
2.53 lbs **1.15** 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 84.7 dB(A)**
Sound Power Level 95.8 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.

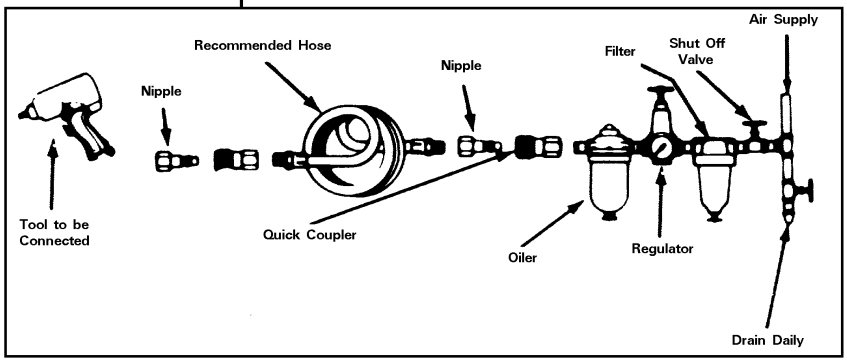
Work Stations

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 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 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 20 mm wide x 525 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 (2A) 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 belt at idle pulley (2) position towards tool and idle pulley bracket (1) will click into a holding position taking the tension off of the belt to allow the belt to be taken off. Note that a new belt is fitted in a similar way and tension bar (14) is pressed after the belt has been fitted to tension the belt. With a screwdriver located in the idle pulley assembly (2) unscrew nut. Unscrew hexagon socket head bolt (2A). Remove finger pad assembly (4) by removing holding cap screw. Remove hexagon socket head bolt (6) and take off flat shoe (10). Remove key bolt (5) and drive out lever pins (16) and (17) and take out tension bar (14) and spring (15). Pull out idle pulley bracket (1) and spring (3). Grip drive pulley (9) and unscrew bolt (8) with washer (8A) and prise off drive pulley (9) with key (22).Pull out dust cover (12). Unscrew bolt (11) and slide off guard body (13). Grip housing (18) and unscrew cap (23). Tap the end of rotor (28) to drive the complete motor assembly out of the end of housing (18). Grip end plate (20) and insert a punch into the threaded hole in rotor (28) and tap the punch to drive the rotor (28) through end plate assembly (20). Take off cylinder (26), spacer (21) and 5 off rotor blades (27) (one set) from rotor (28). Locate end plate (25) on the cylinder side and tap the end of the rotor to drive it though end plate (25) assembly. Tap out bearing (19) from end plate (20) and bearing (24) from end plate (25). Drive out pin (30) and remove lever (29). Unscrew air inlet with screen (39) and take off deflector (38). Unscrew valve body (31) and take out O-rings (32) (33) (34) and (36), valve stem (35) and valve spring (36).

Reassembly

Clean all parts and examine for damage and wear. Replace any part with parts obtained from the manufacturer or an approved representative. Coat all parts with a pneumatic tool lubricating oil and assemble in reverse order. Fit new belt - see section Operating.

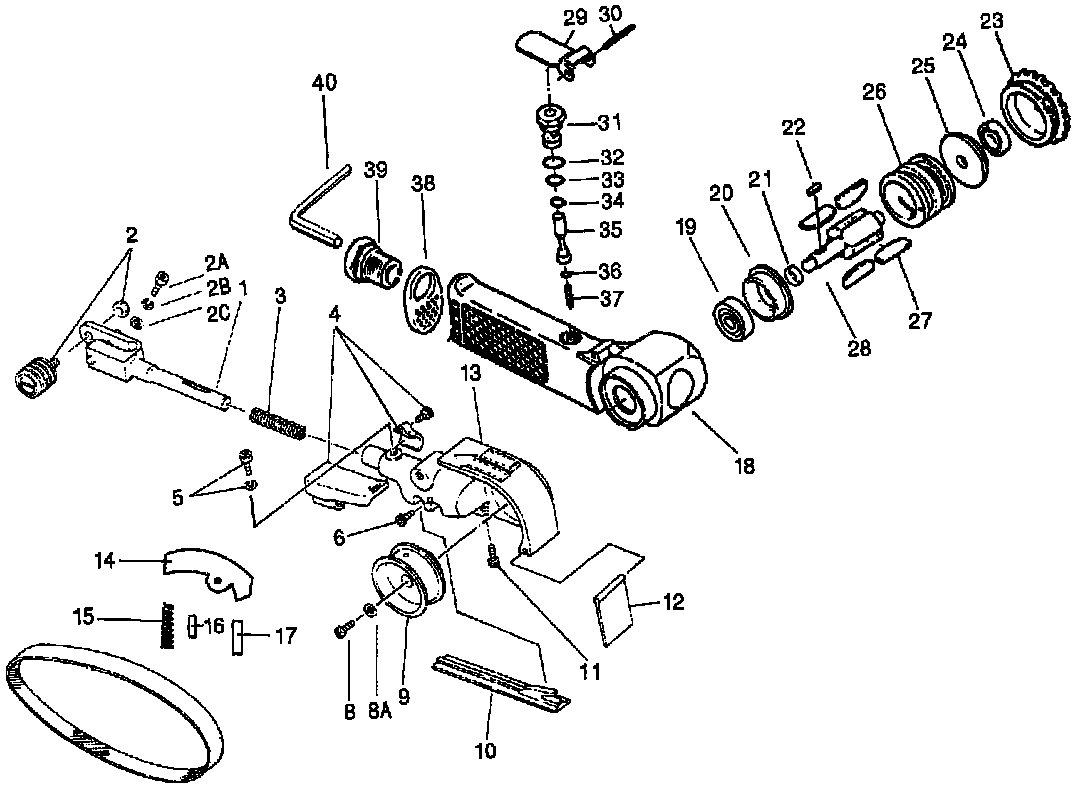
Safety Rules For A Sander

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.

Technical Specification	
Length (Folded)	340 mm (13.38")
Length (Max)	345 mm (13.58")
Height	65 mm (2.56")
Air Inlet	1/4" NPT
Air Consumption	4.0 CFM
Standard Belt Size	20 mm wide x 525 mm

Universal Tool

UT5765 20mm Belt Sander



Ref No	Part No	Description
1	0707001	Idle Pulley Bracket Sub Assembly
2A	0707002A	Hexagon Socket Head Bolt (Set)
2B	0707002B	Washer
2C	0707002C	Clip
2	0707002	Idle Pulley Assembly (Set)
3	0707003	Spring
4	0707004	Finger Pad Assembly (3)
5	0707005	Key Bolt Assembly (2)
6	0707006	Hexagon Socket Head Bolt
7	0707007	Grinding Belt (2)
8A	0707008A	Washer
8	0707008	Hexagon Socket Head Bolt
9	0707009	Drive Pulley
10	0707010	Flat Shoe
11	0707011	Hexagon Socket Head Bolt
12	0707012	Dust Cover
13	0707013	Guard Body
14	0707014	Tension Bar (Set)
15	0707015	Spring
16	0707016	Lever Pin
17	0707017	Lever Pin
18	0707018	Housing
19	0707019	Ball Bearing

Ref No	Part No	Description
20	0707020	End Plate B
21	0707021	Spacer
22	0707022	Key
23	0707023	Cap
24	0707024	Ball Bearing
25	0707025	End Plate A (Set)
26	0707026	Cylinder
27	0707027	Blade Assembly (5) (Set)
28	0707028	Rotor
29	0707029	Throttle Lever
30	0707030	Lever Pin
31	0707031	Valve Body (Set)
32	0707032	O-Ring
33	0707033	O-Ring
34	0707034	O-Ring
35	0707035	Valve Stem
36	0707036	O-Ring
37	0707037	Valve Spring
38	0707038	Deflector
39	0707039	Air Inlet
40	0707040	Hexagon Wrench

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 UT5765 20mm 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	ARTHUR PATERSON	
Place and date of issue	Name and signature or equivalent marking of authorised person	

Accessories

Notes

Distributor