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
Dual Action Sander - 6"(150mm) Pad

RPM
10,000
Cycles Per Min

Model No/Nos
UT8700 - Non Vacuum
UT8701 - Generated Vacuum
UT8702/3 - Central Vacuum

Serial No

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

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 78.0 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 standards 8662 Parts 1 & 8**

Foreseen Use of Tool

This tool is designed for the purpose of cleaning or sanding of a variety of materials typically metal, wood, plastic materials, etc. The dual rotary orbital action reduces the amount of abrasive grinding marks and hence is primarily a finishing sanding tool. It can be used with a variety of grades of 150 mm (6" diameter) abrasive discs which, according to pad fitted to the tool, can be self adhesive or Velcro attached. If fitted to the dust collecting system this should always be used. The system may be integral or required to be fixed to an external vacuum source.

The machine fitted with dust collection should not be used with water. If use with water is required, water can act as a dust suppressor and the dust collector would not be required.

Do not use the tool for any other purpose to that for which it has been designed and use only abrasive discs as described.

Do not modify the tool for any other use or for its use as a sander without first consulting the manufacturer or his authorised distributor.

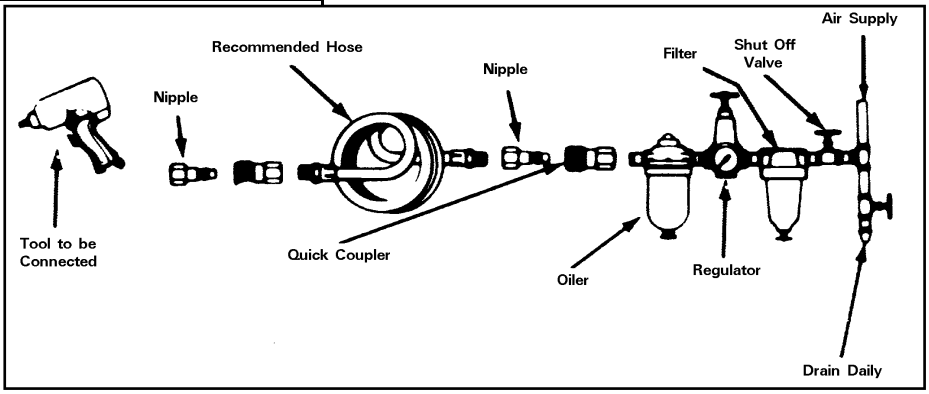
Putting Into Service

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

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.



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 disc (see Section "Foreseen use of the tool") and make sure that it is fixed securely to the tool. Connect to suitable air supply as recommended. Make sure that the side handle is tightened securely.

Apply the sander lightly to the work and allow the abrasive disc to cut. Take great care when sanding around sharp edges and surfaces to avoid the disc snagging i.e. the disc may be brought to an abrupt stop or considerably slowed that will cause the tool to kick in the hands.

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 machine has a low noise level the actual sanding process may cause a noise level such that ear protectors will be required. If there are sharp areas on the material being sanded safety gloves are recommended.

Do not continue to use abrasive discs that are worn or clogged. This will make the sanding process inefficient and the need to apply unnecessarily high forces to the tool.

Do not use undersized or oversized sanding discs. The disc should be no more than 1/4" larger in diameter that the pad, and not smaller than the pad.

Dismantling & Assembly Instructions

Disconnect the tool from air supply

Remove abrasive paper. Push service wrench (41) between housing cover (37) and pad (40-1) and remove pad (40-1). Unscrew the 4 screws (38) and remove the housing cover (37). Pull out the motor assembly parts (18 to 36) from housing (17). Disassemble the motor assembly step by step. To remove the bearing (20) from the rear plate (21) first take off the snap ring (19)

Reassembly

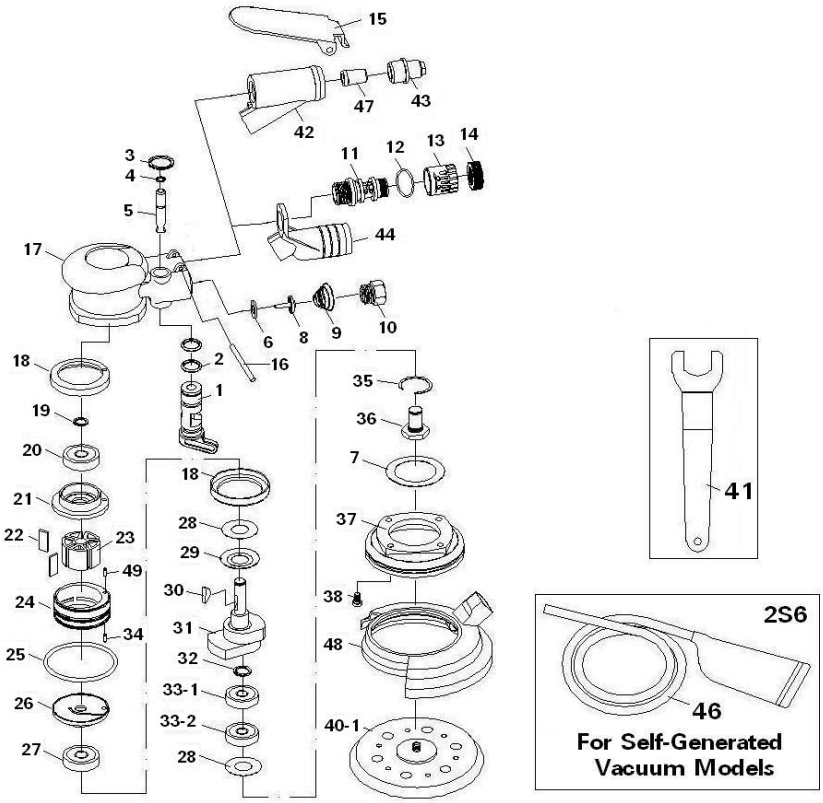
Clean all parts and examine for wear. Coat all metal parts in a pneumatic tool lubricating oil, one preferably incorporating a rust inhibitor, and grease all bearings with a molybdenum or lithium based general purpose grease. Reassemble in the reverse order.

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.
19) Always check the speed of the attachment is higher than the speed of the tool.
20) Check speed of tool at regular intervals.
21) Check always that the material to be sanded may not cause a risk by being sanded, i.e. fire or explosion.
22) If self fixing discs are used, i.e. self adhesive or Velcro, always ensure the disc is fixed centrally to the pad.

Universal Tool

UT8700/1/2/3 Dual Action Sanders



Ref No	Part No	Description
1	UT-OB-01	Regulator
2	UT-OB-02	O-Ring (2)
3	UT-OB-03	Snap Ring
4	UT-OB-04	O-Ring
5	UT-OB-05	Valve Stem
6	UT-OB-06	Washer
7	UT-OB-16.1	Washer
8	UT-OB-08	Valve
9	UT-OB-09	Spring
10	UT-70426	Air Inlet
11	UT-OB-11	Muffler Body
12	UT-OB-11.1	O-Ring
13	UT-OB-11.3	Exhaust Sleeve
14	UT-OB-11.2	Nut
15	UT-OB-13	Lever
16	UT-OB-14	Pin
17	UT-OB-15-3	Housing
18	UT-OB-16	Rubber Bushing (2)
19	UT-70410	Snap Ring
20	UT-OB-18	Bearing
21	UT-OB-19	Rear Plate
22	UT-OB-20	Rotor Blade (5)
23	UT-OB-21-1	Rotor

Ref No	Part No	Description
24	UT-OB-22	Cylinder
25	UT-OB-24	O-Ring
26	UT-OB-25	Front Plate
27	UT-OB-26	Bearing
28	UT-OB-28.1	Washer (2)
29	UT-E-29	Washer
30	UT-70407	Rotor Key
31	UT-S560-29	Motor Shaft Balancer (6")
32	UT-OB-30	Snap Ring
33-1	UT-OB-31.1	Bearing
33-1	UT-OB-31.2	Bearing
34	UT-81326	Pin (3*6)
35	UT-OB-33	Snap Ring
36	UT-S560-34	Shaft
37	UT-OB-35.2	Housing Cover
38	UT-OB-36	Screw (4)
40-1	UT-OB-38.2-1	Pad 6"
41	UT-OB-39	Stop Spanner
44	UT-S560-41	Vacuum Adapter (2C6)
48	UT-S560-47	Shroud
49	UT-OB-23	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

Models UT8700/1/2/3 Dual Action Sanders, 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 & 8, Pneurop PN8NTC1

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

Lane End	**D.H.Moppett (Man. Director)**	
Place and date of issue	Name and signature or equivalent marking of authorised person	

Accessories

Notes

Distributor