

Universal Tool

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 UT8751/2 7" Dia R/A Sander/Polisher, 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 & 4, Pneurop PN8NTC1
 following the provisions of **89/392/EEC as amended by 91/368/EEC & 93/44/EEC Directives**

Lane End D. Kisa
 Derya Kisa, Managing Director

Place and date of issue Name and signature or equivalent marking of authorised person

Accessories

Notes

Distributor

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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		Product Type 7" Dia Pad Right Angle Sander/Polisher	RPM (See Below) Cycles Per Min	
Tel No (01494) 883300 Fax No (01494) 883237		Model No/Nos UT8751 - 4500 RPM Angle Sander UT8752 - 2400 RPM Angle Polisher	Serial No	

Product Nett Weight 5.0 lbs 2.3 Kg	Recommended Use Of Balancer Or Support <p style="text-align: center;">No</p>	Recommended Hose Bore Size - Minimum 3/8 Ins 10 M/M	Recommended Max. Hose Length 30 Ft 10 M
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Air Pressure Recommended Working 6.3 bar 90 PSI Recommended Minimum n/a bar n/a PSI Maximum 7 bar 100 PSI	Noise Level Sound Pressure Level 97.0 dB(A) Sound Power Level 107.40 dB(A) Test Method Tested in accordance with Pneurop test code PN8NTC1 and ISO Standard 3744
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Personal Safety Equipment Use - Safety Glasses Yes Use - Safety Gloves Yes Use - Safety Boots Use - Breathing Masks Yes Use - Ear Protectors	Vibration Level Less than 2.5 Metres / Sec² Test Method Tested in accordance with ISO standards 8662/1 & 8662/4
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Foreseen Use of the Tool

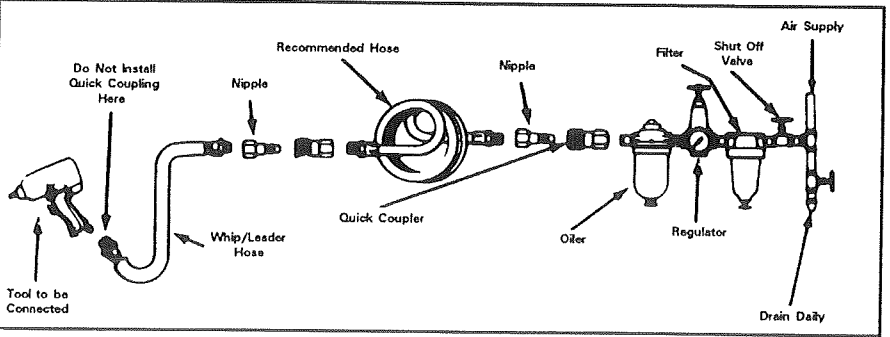
This angle tool is designed for use with 7" diameter coated abrasive discs of various grades of grit which are designed to be used at the same or higher speed of this tool. The spindle thread is 5/8 - 11 UNC-2A and the tool can be used with other abrasive devices that have the same female thread size and are designed to run without a guard and have a rated speed equal to or higher than the speed of the tool. Do not attempt to use any bonded abrasive devices, i.e. grinding wheels, as those which could be fitted because of their size, cannot be used without a suitable guard. A guard is not available for this tool. **Do not fit any form of saw blade.** Do not fit any other abrasive or cutting device before checking the suitability for use with this tool with the manufacturer or the manufacturer's authorised distributor. Do not modify this tool for other use, or for its use as a sander/polisher before checking the intended alternative use with the manufacturer or his authorised distributor.

Putting Into Service

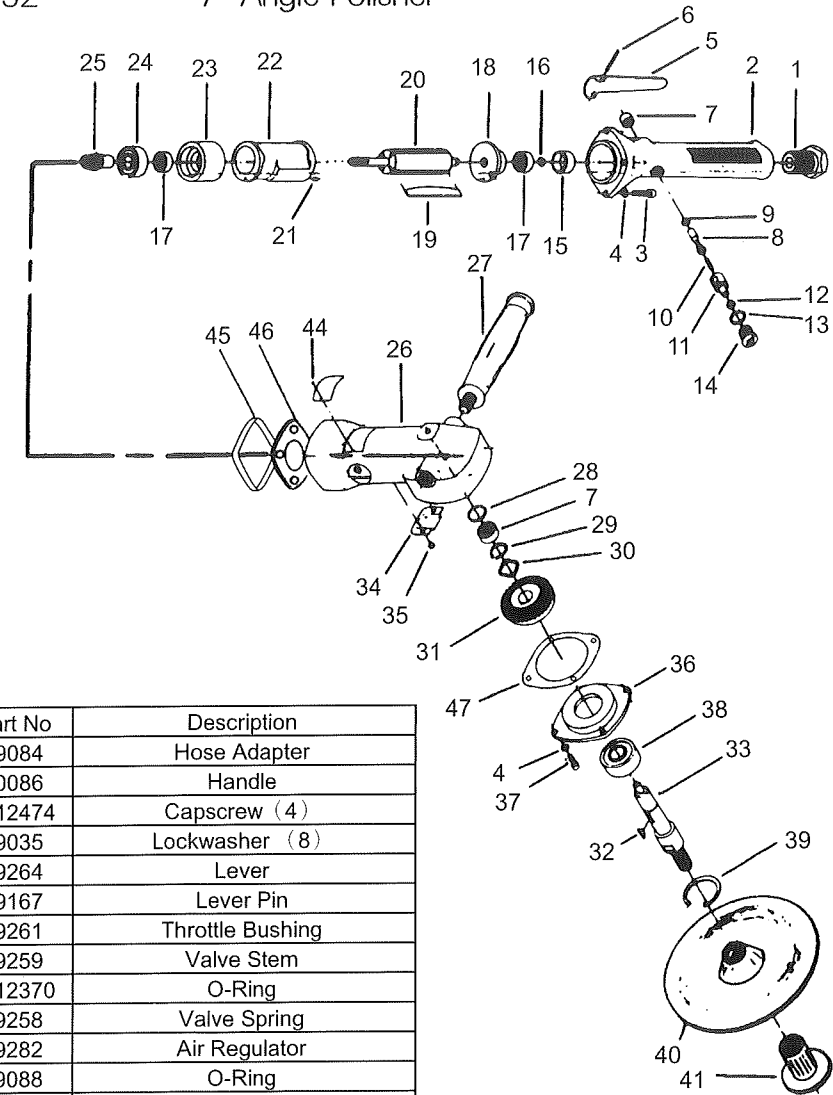
Air Supply
 Use a clean lubricated air supply that will give a measured air pressure at the tool of 90 p.s.i./6.3 bar when the tool is running with the trigger/lever fully depressed. Use recommended hose size and length. It is recommended that the tool is connected to the air supply as shown in figure 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 incorporating a rust inhibitor. Reconnect tool to air supply and run tool slowly for a few seconds to allow air to circulate

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



UT 8751 7" Angle Sander
 UT 8752 7" Angle Polisher



Ref No	Part No	Description
1	729084	Hose Adapter
2	730086	Handle
3	1012474	Capscrew (4)
4	729035	Lockwasher (8)
5	729264	Lever
6	729167	Lever Pin
7	729261	Throttle Bushing
8	729259	Valve Stem
9	1012370	O-Ring
10	729258	Valve Spring
11	729282	Air Regulator
12	729088	O-Ring
13	729073	O-Ring
14	729262	Valve Screw
15	729250	Bearing Cover
16	729225	Retaining Ring
17	729188	Bearing (2)
18	729231	Rear End Plate
19	729230	Rotor Blade (4)
20	729268	Rotor (UT 8751)
	732460	Rotor (UT 8752)
21	729252	Pin
22	729229	Cylinder
23	730087	Front End Plate
24	1005478	Bearing
25	730089	Pinion (UT 8751)
	731059	Pinion (UT 8752)
26	730090	Motor Housing
27	729284	Dead Handle
28	730091	Bearing Plate
29	730092	Retaining Ring

Ref No	Part No	Description
30	720093	Wave Washer
31	730094	Bevel Gear (UT 8751)
	731060	Bevel Gear (UT 8752)
32	729272	Key
33	730095	Work Spindle
34	730096	Exhaust Deflector
35	730097	Screw
36	730098	Housing Cap
37	729989	Capscrew (4)
38	1005471	Bearing
39	730100	Retaining Ring
40	731247	7" Dia Pad (UT 8751)
	731184	7" Dia Pad (UT 8752)
41	731075	Nut
45	900003	Housing Band
46	732450	Gasket
47	900004	Gasket

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. The tool incorporates an air regulator to reduce the speed

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 than the pad, and not smaller

Dismantling & Assembly Instructions

The two tools are identical except for the speed. The variation is in the pinion (25) and bevel gear (31) and the rotor (20) - see parts list. Grip the tool in a vice fitted with soft jaws and unscrew side handle (27). Remove polishing mop if fitted and with the spanner and peg spanner provided by use of the holes in nut (41) and the flats on work spindle (33), remove the nut (41) and pad (40). Remove 4 off capscrews (37) and 4 off lockwashers (4) to remove the housing cap (36) with gasket (47) and the work spindle assembly. Remove retaining rings (39) and (29). Remove wave washer (30), bevel gear (31) and key (32). Press out bearing (38) with work spindle (33) from housing cap (36) and bearing (38) off of the work spindle (33). The bearing plate (28) and bearing (7) may be removed from the motor housing (26) by use of a small rod through the hole in the top of the head of the motor housing. Remove 2 off screws (35) and exhaust deflector (34). Remove hose adaptor (1), drive out lever pin (6) and remove lever (5). With a wide bladed screwdriver unscrew valve screw (14) and take out O-ring (13), O-ring (12), air regulator (11), spring (10), valve stem (8) and O-ring (9). Do not remove throttle bushing (7) from handle (2). Remove 4 off capscrews (3) and 4 off lockwashers (4) to remove handle (2) and housing band (45) and gasket (46). Pull out the motor and pinion gear drive assembly. Grip the motor assembly by hand and tap the splined end of the rotor (20) with a non-metallic or soft metal (lead or aluminium) hammer to drive the motor assembly through the pinion (25) and bearing (24) assembly. The pinion may be pressed out of the bearing. Grip the front end plate and again tap the rotor (20) with a hammer as above to remove the rotor from the front end plate and bearing assembly. Remove cylinder (22) complete with pin (21) and take out 4 off rotor blades (19) from rotor (20). Remove bearing cover (15) and retaining ring (16). With a piece of tube with a bore diameter as close as possible to the maximum diameter of the rotor, tap the non splined end of the rotor to drive the rotor through the rear end plate and bearing assembly. With a suitable punch remove bearing (17) from rear end plate (18) and bearing (17) from front end plate (23). Clean all parts and examine for wear. Look in particular for wear and cuts on O-rings. Coat all parts in a pneumatic tool lubricating oil, preferably one including a rust inhibitor, grease all bearings and bevel

gears and reassemble in the reverse order. See note on motor assembly build.

Motor Assembly

If fitting a new rotor very lightly deburr the edges of the rotor slots. Make sure rotor blade slots are clean. Make sure that the faces of the front and rear end plates (23) and (18) that abut cylinder (22) are free from burrs and surface marking. If necessary lap faces on a flat, very fine grade of abrasive paper. Press bearing (17) into end plates (23) and (18). Support bearing (17) in rear end plate on the inner race and tap rotor on the gear end with a soft metal or non metallic hammer until the rotor locates against the face of the rear end plate. Support the inner face of the rear end plate in a piece of tube with a bore diameter as close as possible to the largest diameter of the rotor and tap the non splined end until a clearance of .040mm (0.0015") to .065mm (0.0025") is obtained between the inner face of the rear end plate and the rotor. This clearance to be checked when pulling the rotor by hand away from the rear end plate and bearing assembly. Spin rotor to ensure that it will spin freely in the rear end plate and bearing assembly. Fit rotor blades and cylinder ensuring that the pin in one end of the rotor cylinder locates in the round hole in the rear end

Safety Rules For A Sander/Polisher

- 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