



Universal Tool

Operator Instructions

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

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 Nett Weight 0.73 lbs 0.33 Kg	Recommended Use Of Balancer Or Support No	Recommended Hose Bore Size - Minimum 5/16 Ins 8 M/M	Recommended Max. Hose Length 30 Ft 10 M
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Air Pressure		Noise Level Sound Pressure Level TBA dB(A) Sound Power Level TBA dB(A)	
Recommended Working	2.06 bar 30 psi	Test Method Tested in accordance with ISO Standard 3744	
Recommended Minimum	n/a bar n/a psi		
Maximum	2.76 bar 40 psi		

Personal Safety Equipment		Vibration Level N/A Metres / Sec ²
Use - Safety Glasses	Yes	Test Method Vibration testing not required for a spray gun
Use - Safety Gloves	Yes	
Use - Safety Boots		
Use - Breathing Masks	Yes	
Use - Ear Protectors		

Foreseen Use of Tool

This model is a mini touch-up with an external mix, high capacity spray gun, designed for high quality production spraying of paint and other finishing material from a gravity plastic cup. Spray all of small area, touch-up, detail and miniature artwork spraying.

The material inlet is located directly on the top of the spray gun and the air inlet is located at the bottom of the spray gun handle.

The fluid control knob located at the rear of the spray gun, the pattern control knob is located at the left side of the spray gun.

Work Stations

The spray gun should only be used as a handheld hand-operated device. It is always recommended that the spray gun is used when standing on the solid floor. It can be used in other positions provided the spray gun is kept near vertical and the operator has a firm grip and footing. Any work station must take account that the liquid being sprayed should not be breathed in and the liquid can be highly flammable and spraying should never be undertaken near naked flames or hot surfaces. Do not smoke. It should also take account that not all of the liquid being sprayed will be applied to the object being sprayed and account must be taken that this

Important

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

Product Type 1mm Spray Gun - Touch Up Gravity Feed Cup (125cc)	RPM N/A Cycles Per Min N/A	
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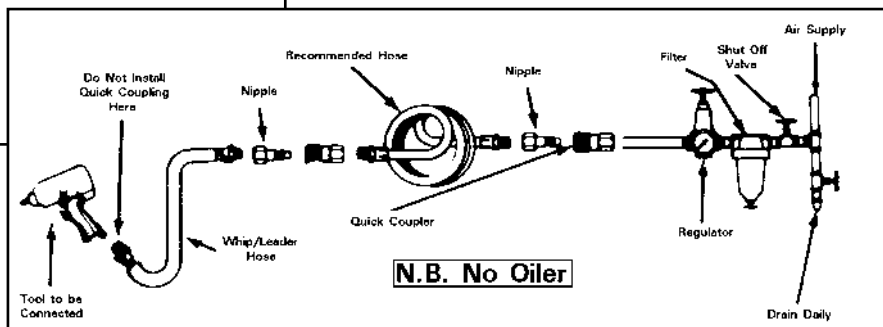
Model No/Nos UT59A	Serial No
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upward direction. Attach material cup to the gun. Attach an air supply line to the 1/4" BSP air inlet. Check for the correct tightening of nut (4) so that no air will escape but air valve stem (16) still slides. **Caution: Never** point spray gun at yourself or any other person. Accidental discharge of material may result in serious injury. Adjust air pressure to spray gun. **Caution: Do Not** exceed 100 psi. Depress spray gun trigger to spray material. To adjust the amount of material released (density of fan spray), turn the fluid control knob (7) (counter clockwise to increase, or clockwise to decrease). To adjust the width of fan spray, turn the pattern control knob (15) (counter clockwise to increase, or clockwise to decrease). To adjust the air quality turn the Air Volume control knob (20) (counter clockwise to increase, or clockwise to decrease). **Note:** Care should be exercised when handling spray gun to avoid damage to the orifice of the air cap and tip of fluid nozzle, damage to these parts will result in irregular spray patterns

Operating

Prior to shipment, this gun was treated with an anti corrosive agent, before using this gun make sure that it is carefully flushed with thinners.

To use the gun, tighten the air cap with its stamping number in an



Dismantling & Assembly Instructions

It is important that the spray gun is cleaned after daily use. Cleaning is accomplished by spraying an appropriate solvent or thinners through the system. Wipe the exterior of the spray gun with a solvent soaked cloth or use the provided brush to remove any accumulated material.

Exchange of nozzle set

When changing to another nozzle, make sure that the complete nozzle set is changed. A set comprises of air cap, paint nozzle, and fluid needle.

Assemble fluid nozzle before putting in fluid needle.

Cleaning

Empty any material from the gravity feed cup and replace with a suitable solvent. Operate trigger until material traces have disappeared and gun is thoroughly clean. Wipe gun exterior with a solvent dampened cloth or use provided brush.

Note: If fluid nozzle (2) is to be removed for thorough cleaning squeeze trigger to prevent damaging the fluid needle tip (7) when unscrewing nozzle.

Caution: Always exercise extreme care when using any solvent or thinners. Never

clean gun near fire, flames or any source of heat or sparks. Properly dispose of used cleaning material.

Caution: Do Not soak entire spray gun in solvent or thinners for a long period of time as this will destroy lubricants and possibly makes motion unsmooth.







Never use lye or caustic alkaline solutions for cleaning; such solutions will attack the aluminium alloy parts of the gun.

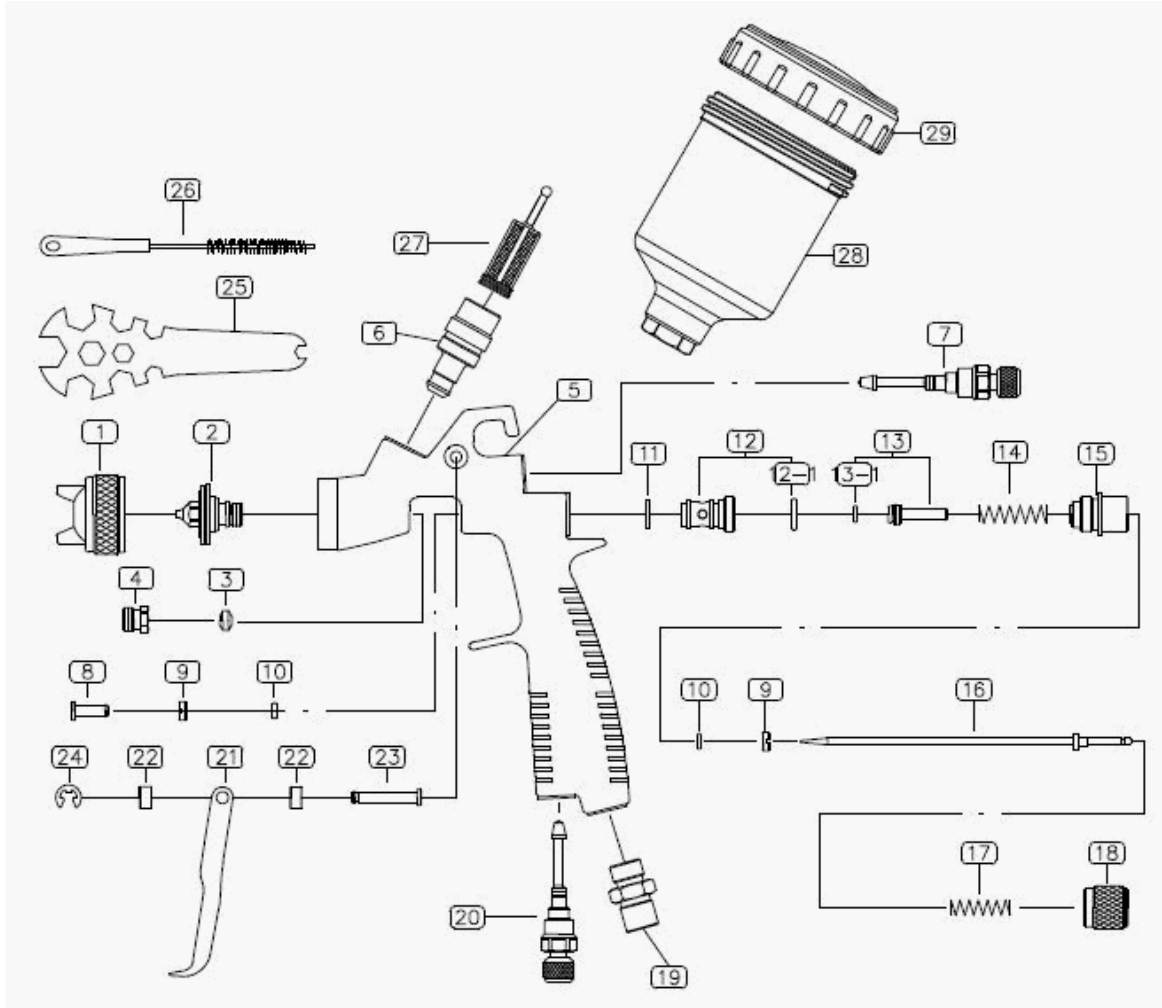
Important: Make certain that the air cap and fluid nozzle are kept clean at all times. If necessary, remove these two components and soak them in solvent.

Do Not use metal instruments to clean air cap or fluid nozzles as an irregular spray pattern may result.

After a thorough cleaning of the gun, the following lubrication procedures must be observed to ensure affective high quality performance of the spray gun. Lubricate working points (13) with straight mineral oil or castor oil. Periodically place a few drops of oil on tapered sections of fluid nozzle (2) to ensure easy operation of the air cap. When spraying water bases materials coat fluid nozzle inside and out with straight mineral oil after use. Outer diameter of needle sleeve (7) of fluid needle assembly must be lubricated occasionally with straight mineral oil.

Troubleshooting

Defective Pattern	Likely Cause	Suggested Remedy
	Dried material is clogging side-port "A" and causing side-port "B" to blow spray towards the clogged side. 	Soak side-ports in thinner to clean clog. Do not poke any opening with metal objects.
	Dried material at fluid nozzle "C" restricts air flow. Loose air nozzle. Air Pressure set too high. 	Remove air nozzle. Wipe off fluid tip using a cloth soaked in thinner or soft brush. Fasten nozzle securely. Reduce air pressure.
Spitting, irregular or fluttering spray 	Fluid nozzle cracked or worn. Leak at thread of fluid nozzle. Leak at fluid needle. Needle Packing worn out. Insufficient fluid in cup. Vent hole in container cover clogged.	Tighten or replace. Tighten fluid nozzle. Tighten compression nut assembly or replace needle packing. Replace packing. Fill cup with fluid. Clean out vent.
Split spray pattern. 	Air Pressure too high.	Turn pattern knob c/w to decrease fan width. Turn fluid needle adjusting nut c/w to increase fluid flow.
Unatomised or splattered spray.	Material too heavy. Insufficient air pressure. Fluid pressure too high. Dried material on tip of fluid nozzle or air jets of air cap.	Thin material or use larger orifice fluid nozzle set. Increase pressure to within limit. Reduce pressure. Clean.
Inadequate air delivery	Air needle partially closed. Dried material in air jets of air cap. Obstruction in air line.	Open control knob. Clean. Remove obstruction.
Excessive fog	Air pressure too high for viscosity of fluid.	Reduce air pressure and/or open fluid control knob.
Material leaking from fluid inlet cup	Loose cup or foreign substances on/between cup thread and fluid inlet.	Tighten and clean or replace it.
Material leak from nozzle when trigger is released.	Worn fluid needle. Dried material in tip of nozzle. Loose packing nut.	Replace. Clean. Tighten Needle packing nut by turning counterclockwise.



Ref No	Part No	Description
1	9920000401	Air Cap
2	9930000401	Fluid Nozzle 0.8
2	9930000402	Fluid Nozzle 1.0
2	9930000404	Fluid Nozzle 1.2
3	9000005100	Needle Packing Set
4	9000005200	Needle Packing Seat
5	9910000800	Body Set
6	9000005300	Fluid Nipple
7	9000005401	Pattern Adj.Set
8	9000005500	Air Valve Shaft
9	9000005600	Packing Holder
10	9000005700	O-Ring
11	9000005800	Gasket
12	9000005900	Air Valve Seat Set
12-1	9000005910	O-Ring
13	9000006000	Air Valve Seat Set
13-1	9000005700	O-Ring
14	9000006100	Air Valve Spring

Ref No	Part No	Description
15	9000006200	Fluid Adj.Guid. Set
16	9940000201	Fluid Needle 0.8
16	9940000202	Fluid Needle 1.0
16	9940000204	Fluid Needle 1.2
17	9000006300	Needle Spring
18	9000006401	Fluid Adj.Knob
19	9000006500	Air Inlet Nipple
20	9000006601	Air Adj.Set
21	9000006700	Trigger
22	9000006800	Gasket
23	9000001900	Trigger Stud
24	9000002000	E-Ring
25	9710001400	Spanner
26	9720002100	Brush
27	9750000100	Material Sleeve
28	9810000120	Plastic Cup
29	9810000130	Cover

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 UT59A Touch Up Spray Gun, 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 8662/1

following the provisions of

89/392/EEC as amended by 91/368/EEC & 93/44/EEC Directives

Lane End

ARTHUR PATERSON



Place and date of issue

Name and signature or equivalent marking of authorised person

Safety Rules

Do not assume that you are totally familiar with this unit until after having read all warning tags, labels, nameplates, instruction sheets and any other explanatory material completely and thoroughly. To avoid accidents, this should be done by all persons before attempting to operate, assemble or disassemble the gun or any other part of the system.

Before disassembly or removal of any part of the gun or attached components; shut off compressor, release pressure by depressing the trigger and disconnect power source.

Never assume system pressure is zero!

Protect all lines against damage. **Avoid Risk.** If uncertain as to safe conditions of hoses, replace with the same type of a suitable replacement. (**Do Not Repair**).

To avoid creating an explosive atmosphere, work only in a well ventilated area.

Use of a face mask is recommended to prevent inhalation of toxic material.

Do Not attempt to unclog (back flush) spray gun by squeezing trigger while holding your finger in front of the fluid nozzle.

Pressure may vary according to viscosity of material used. Maximum working pressure is 40 psi.

Do not exceed pressure limit of gun or any other component in system.

Prior to daily operation, make certain that all connections and fittings are secure.

Check hose and all connections for weak or worn condition that could render system unsafe. All replacement components such as hose or fittings **must** have a working pressure equal to or greater than system pressure.

Recommended spray distance 8" to 10".

Warning

Halogenated hydrocarbon solvents for example: 1, 1, 1-trichloroethane and methylene chloride- can chemically react with the aluminium in this gun and cause an explosion hazard. Read the label or data sheet for the material you intend to spray. Do not use spray material containing these solvents with this spray gun.

Notes

Distributor

Accessories

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