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**A - A U - L / H e a d**  
**Automatic Spray Guns**

**OPERATING INSTRUCTIONS AND REPLACEMENT PARTS**

**DESCRIPTION:** The A-AU Automatic Spray Gun is a light duty air actuated production spray gun. It will cover a range of materials to include light lacquers, latex, acid or corrosives.

**CONNECTIONS** to the gun are: Air Inlet 1/4" N.P.T. (F) and Fluid Inlet 1/4" N.P. T. (M). A-AU Automatic Spray Gun dimensions are: 5-1/8" (L) x 2 1/4" (D)

**PACKING WASHERS** are leather and treated in oil. For Teflon\* Packings see parts list, Page 3.

**OPERATION:**

1. Mount Gun in desired position
2. Before installing, blow out air hoses with compressed air to remove foreign particles.
3. Connect hose from air supply to air inlet fitting.
4. Connect fluid hose to fluid inlet supply.
5. Tighten all hose connections securely.
6. Adjust air pressure to 45-55 P.S.I. at your Air Regulator.
7. Adjust fluid volume by turning the U-3178 Fluid Adjusting Knob to the left or right.

**NOTE: DO NOT USE AS A SHUT-OFF BY TURNING ALL THE WAY DOWN - IT MAY SPLIT THE TIP. Use minimum fluid pressure, 5 P.S.I. for light materials and up to 10 P.S.I. for heavier materials.**

**TIP REMOVAL:**

1. Turn off Air and Fluid Pressure.
2. Release Needle pressure from the seat of Tip, by backing off the U-3178 Fluid Adjusting Knob approximately 5 turns, then removing U-2686A Cylinder Cap Assembly.
3. Loosen AU-12 Aircap Nut and remove Multiplehead Assembly. Leave Needle in place.
4. Unscrew AU-Tip. Place New AU-Tip in position.
5. To replace, reverse above procedure.

**MAINTENANCE:** Requirements of the A-AU- Automatic Spray Gun have been reduced to a minimum. The leather packing washers should be lubricated once a month with a light oil. Old Packing Washers cause leakage of Air or Fluid and replacement should be made. Teflon Packings are self-lubricating.

**CLEANING:** Flush clean solvent through the Fluid passages of the Spray Gun and Wipe off the outside with clean solvent. Never leave the entire Spray Gun immersed in solvent. Dirty Aircaps and Tips should be cleaned by soaking in solvent and blown clean with air.

**WARNING:** Spray materials may be harmful if inhaled or allowed to come into contact with the skin or eyes. Consult the product label and Material Safety Data Sheet supplied for the spray material. Follow all safety precautions.  
**CAUTION:** Well Ventilated Area Required to remove fumes, dust or overspray. Secure airhose and fluid hose wrench tight for safety and to prevent leaks.  
**Maximum Air Pressure 100 P.S.I.**  
**Maximum Fluid Pressure 45 P.S.I.**

**TROUBLE SHOOTING SPRAY PATTERNS:**

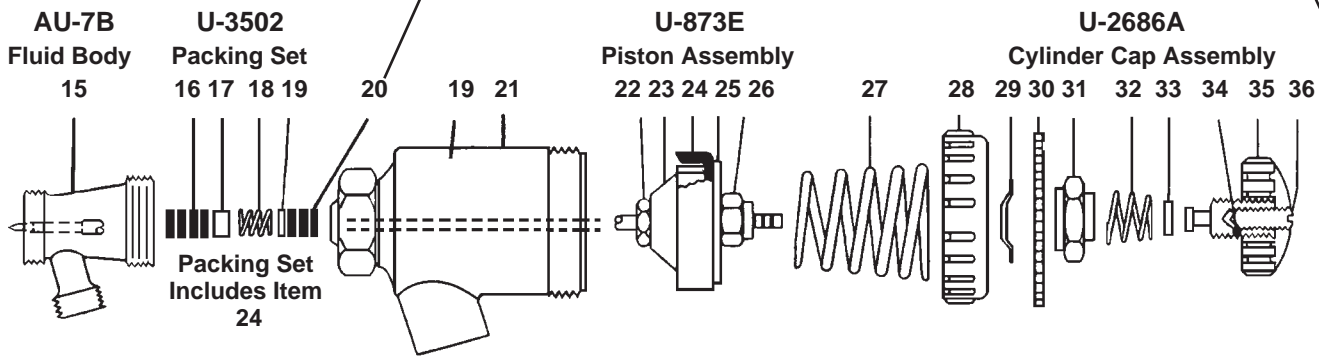
- (A) A ROUGH OR STIPPLE FINISH** is due to low or restricted flow of air pressure or too heavy materials being applied with spray gun too close to surface.
- (B) A WET OR SAGGING FINISH** is due to low air pressure or restricted flow of air, material being too thin, applied too close to the surface.
- (C) A SPATTERING SPRAY** is caused by air leaking into fluid line or can be caused by a loose fluid tip, a broken or split tip, lumpy material, a clogged vent hole in cover of material cup, or air leak at fluid pipe attached to inside of tank cover, or a clogged paint strainer. **TO CORRECT:** Tighten tip securely or replace. Strain materials and clean strainer. Spattering might also be caused by worn packing washers, or worn or scored needle
- (D) AN ARCHED FAN SPRAY PATTERN** is caused by dried material accumulated in one fan port of the multiplehead distorting the pattern. **TO CORRECT:** Dissolve material inside fan port with suitable solvent applied with a small brush.
- NOTE: Never Use Wire or Sharp Instruments to Clean Fan Ports as Permanent Damage to the Air Ports Will Result In Destroying Uniformity of the Fan Pattern.**
- (E) UNBALANCED FAN SPRAY PATTERN** heavy on one side, may be caused by material collecting around outside of the fluid tip and aircap, or by a loose aircap. **TO CORRECT:** Remove aircap and clean fluid tip and aircap with solvent, dry with air pressure. Always be sure fan aircap is tightened securely.
- (F) A HEAVY CENTER** in a fan pattern is caused by insufficient air pressure at the fan port. Rough or shady edges are also caused by low air pressure. **TO CORRECT:** Increase air line pressure.
- (G) A SPLIT FAN SPRAY PATTERN** heavy on each end and light in the center, is caused by excessive air pressure. **TO CORRECT:** Reduce air pressure.

**SPRAY PATTERNS:**



# A-AU Less Head and Less Needle

## AU-1914B CYLINDER ASSEMBLY



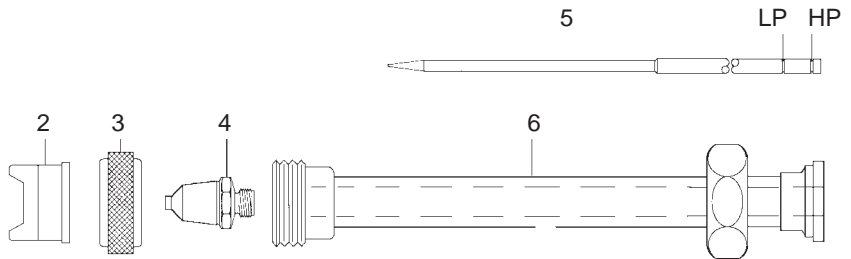
No.	Part No.	Description
<b>Fluid Body</b>		
15.	AU-7B	Fluid Body/L Needle
<b>U-3502 Packing Set</b>		
16.	U-28-12	Packing Washers (12)
17.	U-29	Packing Gland (1)
18.	DU-30	St. St. Spring (1)
19.	U-203	Gland (1)
24.	U-322	Cup Leather (1)
<b>AU-1914B Cylinder Assembly Less Needle</b>		
19.	U-203	Gland
20.	U-28-12	Packing Washers (3) (Sold by Dozen)
21.	U-1907B	Shell Assembly
27.	U-2966	Piston Spring
(Note: Includes U-873E & U-2686A)		
27.	U-2687	Light Spring Action (Special Only)

No.	Part No.	Description
<b>U-873E Piston Assembly</b>		
22.	U-2965	Needle Chuck
23.	U-2964	Inner Bushing
24.	U-322	Cup Leather
25.	U-2465A	Outer Disc
26.	U-2544	Locknut
<b>U-2686A Cylinder Cap Assembly</b>		
28.	U-2707A	Cylinder Cap
29.	U-941	Spring Washer
30.	U-951B	Fluid Dial
31.	U-2675	Friction Dial
32.	U-1098	Spring
33.	U-2584	Washer
34.	59-57	Lock Stud
35.	U-3178	St. St. Fluid Adjusting Knob*
36.	59-56	Lock Screw

\*NOTE: Do not use as a shut-off by turning all the way down, it will split the tip!

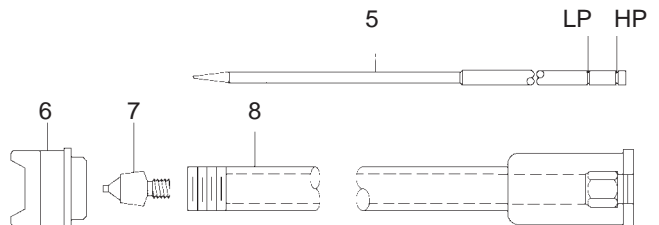
## A-AUNF-3-AE-3

1.	A-AU	Less Head and Less Needle
2.	ANFA-3	Aircap
3.	AU-12	Plated Aircap Nut
4.	AU-3	Tip
5.	A-AU-3	Needle
6.	AE-3	Extension



## A-AUAX3AXNFA-3

1.	A-AU	Less Head and Less Needle
6.	AXNFA-3	Aircap
7.	AXNT-1	Tip
8.	AX-3	Extension
5.	A-AU-3	Needle



## A-AUAX3AXIF-D

1.	A-AU	Less Head and Less Needle
9.	AXIF-D	Aircap
10.	AX-1	Tip
8.	AX-3	Extension
5.	A-AU-3	Needle

