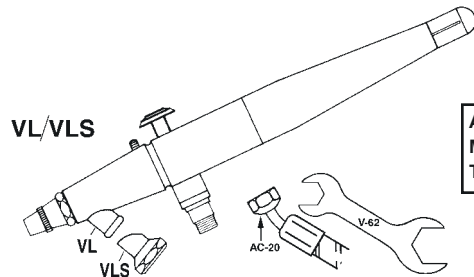
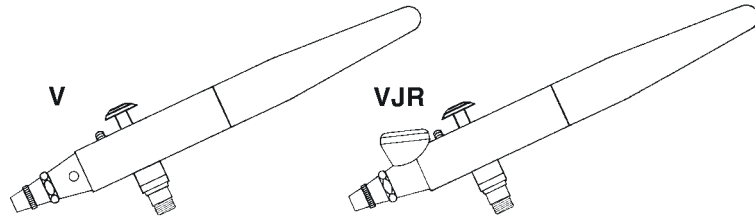


V, VJR, VL & VLS Internal Mix - Double Action Airbrushes

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 to Airbrush with V-62 Wrench for safety and to prevent air leaks.
Maximum Air Pressure 75 P.S.I.



**AC-20 Hose Cplg.
Must Be Wrench Tight
To Prevent Air Leaks.**

INTRODUCTION

Paasche models V, VJR and VL feature hand crafted construction using quality materials. The bodies are machined brass, polished and chrome plated. Components are made from nickel silver, needles are stainless steel, the packing washer is Teflon® and the handle is nylon. Either airbrush, preferred by professional and hobbyist alike, permits great flexibility in regulation of color and air without work stoppage. Different size aircaps, tips and needles are quickly interchangeable to allow greater diversity in materials and coverage.

MODEL VARIATIONS

Paasche VJR, available in two sizes, has the distinct feature of having the color cup built into the shell assembly. This airbrush is convenient when fast color change is desired. The Paasche VLS, available in three sizes, is equipped with a threaded connection at the color socket so bottle assemblies can be securely fastened for greater mobility. It can also be used with larger gravity feed containers for production work.

AIRCAP, TIP AND NEEDLE SIZES

V & VJR AIRBRUSH: Very Thin/Light to Medium Fluids

<u>Very Thin to Light Fluids</u>	<u>Light to Medium Fluids</u>
VM-1 Multiplehead	VM-2 Multiplehead
VA-1 Aircap	VA-2 Aircap
VB Aircap Body	VB Aircap Body
VT-1 Tip	VT-2 Tip
VN-1 Needle	VN-2 Needle

VL & VLS AIRBRUSH: Very Thin/Light to Heavy Fluids

<u>Very Thin to Light Fluids</u>	<u>Light to Medium Fluids</u>
VLM-1 Multiplehead	VLM-3 Multiplehead
VLA-1 Aircap	VLA-3 Aircap
VLB Aircap Body	VLB Aircap Body
VLT-1 Tip	VLT-3 Tip
VLN-1 Needle	VLN-3 Needle

Medium to Heavy Fluids

VLM-5 Multiplehead
VLA-5 Aircap
VLB Aircap Body
VLT-5 Tip
VLN-5 Needle

PRESSURES

- 20 lbs. for stipple and granulated effects.
- 30 lbs. for medium consistency water colors, inks & dyes.
- 35 lbs. for heavier fluids, reduced lacquers, varnishes, paints or ceramic glaze.

OPERATING INSTRUCTIONS

The Airbrush is held in the same manner as a pen, with the index finger comfortably over the finger button.

1. Attach airhose to air supply and allow to blow a few seconds at full pressure. Shut off air supply before attaching to airbrush. This procedure will remove dirt from airline and hose.
2. Attach airhose coupling to airbrush.
3. For VL attach the color cup or bottle assembly to color socket. VLS use firm twisting motion to "screw-on" bottle assemblies. For V insert color cup and bottle assemblies into side fluid hole. VJR add fluid to permanently mounted color cup.
4. **Remove Head Protecting Cap-#6.**
5. Press down on Finger Button-#8 to release air and pull back on button to control quantity of color.
6. If pre-regulated amount of fluid is desired adjust Line Adjusting Nut-#13. This control will give the operator the same amount of fluid each time the Finger Button-#8 is depressed.
7. To spray a fine line without heavy ends, start moving the airbrush without release of color. Then start the color at the beginning of line and stop the color at the end, but continue the motion of the airbrush after the color has stopped.
8. Practice this movement until you can spray a fine line or a broad pattern without heavy build up at the beginning or end of your strokes.
9. Speed of movement controls density of color and fading effects at beginning and end of strokes.
10. For detail, hold the airbrush close to the surface push down for air and pull back very slowly on the Finger Button-#8.
11. For background work and broad effects, hold the airbrush away from work and pull back on Finger Button-#8 to release required amount of color.
12. For more instruction see the "22 Airbrush Lessons for Beginners" booklet enclosed with your airbrush.

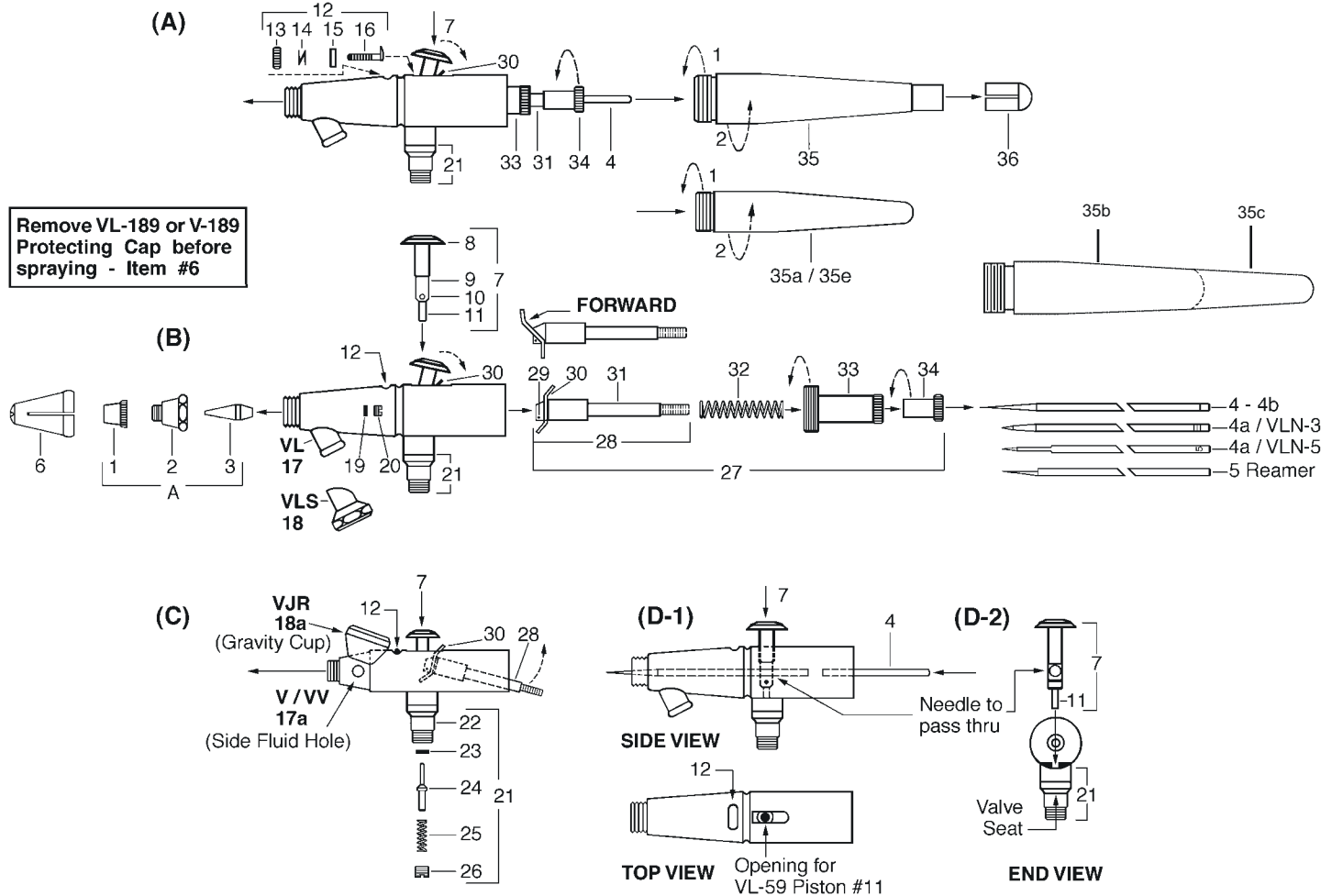
CLEANING PROCEDURE

1. Pour remaining color back into its container.
2. Rinse and wipe color cup or bottle assembly clean.
3. Spray a small amount of water/solvent through the airbrush until it comes out clear.
4. To back-flush color from the airbrush keep bottle assembly or color cup attached. **If using a color cup you must cover the top of it with your thumb or a cloth to keep color from blowing out.**
5. Place one finger over the Aircap #1 of the airbrush and release some air by depressing the Finger Button-#8. This causes back pressure which induces a bubble action inside the airbrush and container. This helps clean the fluid passages.
6. See Page 2 for a complete list of all V, VJR and VL/VLS airbrush parts. See Page 3 for more instructions on cleaning and adjusting the V, VJR and VL/VLS airbrushes.

Paasche Airbrush Company

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Harwood Heights, Illinois 60706-3412
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paasche.thomasregister.com or E-MAIL: info@paascheairbrush.com



Remove VL-189 or V-189 Protecting Cap before spraying - Item #6

“VL” and “VLS” AIRBRUSH PARTS

NO.	PART	DESCRIPTION
A.	VLM-1, 3 or 5	Multiplehead (Specify Size)
1.	VLA-1, 3, or 5	Aircap (Specify Size)
2.	VLB	Aircap Body
3.	VLT-1, 3 or 5	Tip (Specify Size)
4.	VLN-1	Needle (Specify Size)
4a.	VLN-3, VLN-5	Needle (Specify Size)
4b.	VLN-1POL	Polished Needle (Optional Equipment)
5.	VL-54	Reamer (Optional Equipment)
6.	VL-189	Head Protecting Cap
7.	VL-174	Finger Lever Assembly
8.	VL-135A	Finger Button
9.	VL-165A	Finger Lever
10.	VL-58	Lever Pivot
11.	VL-59	Piston
12.	VL-175	Line Adjustment Assembly
13.	V-167	Line Adjustment Nut
14.	V-168	Finger Stop Spring
15.	V-169	Friction Seat
16.	VL-166	Line Adjusting Screw
17.	VL-163	Shell Assembly (VL) W/VL-20
18.	VLS-163	Shell Assembly (VLS) W/VL-20
19.	MU-61	Packing Washer
20.	MU-62	Packing Nut
21.	VL-176	Air Valve Assembly (VL & VLS Only)
22.	VL-20	Valve Casing (VL & VLS)
23.	A-52	Valve Washer (Dozen)
24.	H-21A	Valve Plunger
25.	A-22	Valve Spring
26.	A-23A	Air Valve Nut
27.	VL-186	Needle Valve Assembly
28.	VL-191A	Rocker Assembly (Complete)
29.	V-144	Pin
30.	VL-142	Rocker
31.	VL-137A	Needle Support
32.	VL-140	Spring
33.	VL-136A	Needle Adjusting Sleeve
34.	VL-141	Locknut
35.	VL-134N	Handle (For VL & VLS Airbrushes)
35b.	HVL-203	Stubby Length Metal Handle (Optional)
35c.	HVL-202	Standard Length Metal Handle (Optional)
36.	VL-118	Protecting Cap

“V” “VV” and “VJR” AIRBRUSH PARTS

NO.	PART	DESCRIPTION
A.	VM-1 or 2	Multiplehead (Specify Size)
1.	VA-1 or 2	Aircap (Specify Size)
2.	VB	Aircap Body
3.	VT-1 or 2	Tip (Specify Size)
4.	VN-1 or 2	Needle (Specify Size)
4b.	VN-1POL	Polished Needle (Optional Equipment)
5.	V-54	Reamer (Optional Equipment)
6.	V-189	Head Protecting Cap
7.	V-174	Finger Lever Assembly
8.	VL-135A	Finger Button
9.	V-165A	Finger Lever
10.	VL-58	Lever Pivot
11.	V-59	Lever Piston
12.	V-175	Line Adjustment Assembly
13.	V-167	Line Adjusting Nut
14.	V-168	Finger Stop Spring
15.	V-169	Friction Seat
16.	V-166	Line Adjusting Screw
17a.	V-163RH	Right Hand Shell Assembly (V) W/V-20
17a.	V-163LH	Left Hand Shell Assembly (VV) W/V-20
18a.	V-200	Shell Assembly (VJR) W/V-20
19.	V-83	Packing
20.	V-84	Packing Nut
21.	V-176	Complete Air Valve Assem. (Replaces VL-176)
22.	V-20	Valve Casing (V, VV, VJR) (Replaces VL-20)
23.	A-52	Valve Washer (Dozen)
24.	H-21A	Valve Plunger
25.	A-22	Valve Spring
26.	A-23A	Air Valve Nut
27.	V-186	Needle Valve Assembly (Complete L/Needle)
28.	V-191A	Rocker Assembly (Complete)
29.	V-144	Pin
30.	V-142	Rocker
31.	V-137A	Needle Support
32.	V-140	Spring
33.	V-136A	Needle Adjusting Sleeve
34.	V-141	Locknut
35 a.	F-143	Handle (V, VV and VJR Airbrushes)
35 e.	AFV-143	Metal Handle

A. REMOVING/REPLACING THE NEEDLE AND HANDLE (Illustration A)

1. Unscrew the handle and loosen the Locknut-#34 by turning counterclockwise. Depress the Finger Lever Assembly-#7 and hold in Down position while removing or inserting the needle. This assures the needle moves freely through the finger lever. Gently remove the needle, rotating if necessary, Do NOT force out!
2. A loose needle can cause sputtering if there is any air leakage around the needle and Packing-#19. If there is no noticeable drag on the needle by the packing then tighten Nut-#20.
3. Inspect the condition of the needle. If it is bent or misshapen in any way, replace it with a new needle. A bent needle can damage or split the Tip-#3 causing bubbles or a rough spray pattern.
4. Hold Lever Assembly-#7 in DOWN position, insert the new needle into the Needle Support-#31 of the Rocker Assembly-#28. Gently push needle through, rotating if necessary, until the needle's point is visible through the Tip-#3 of the airbrush.
5. Release Finger Lever Assembly-#7 and tighten Locknut-#34 by turning clockwise.
6. Replace the handle. Slowly screw the handle into the airbrush shell (1) counter-clockwise until you feel or hear a slight "click." Then rotate the handle (2) clockwise a slight turn to meet the threads. Continue to screw handle into the airbrush shell until the threads are no longer visible.

B. REMOVING THE ROCKER ASSEMBLY (Illustrations B and C)

1. Unscrew handle from the end of airbrush shell.
2. Remove Locknut-#34 and needle (see above-removing and replacing the needle and handle.)
3. Depress Finger Lever Assembly-#7 and Pull BACK. Keep in DOWN and BACK position, this secures Rocker Assembly-#28, while removing balance of parts.
4. Unscrew and remove Needle Adjusting Sleeve-#33 and Spring-#32.
5. Keep Finger Lever Assembly-#7 in DOWN position, allow finger lever to go FORWARD to release the Rocker Assembly-#28 for removal.
6. The Rocker Assembly-#28 should now be loose. Tilt the Needle Support-#31 portion of the Rocker Assembly-#28 UPWARDS and gently remove from the back of the airbrush shell (see Illustration "C"). DO NOT FORCE REMOVAL OF ROCKER ASSEMBLY-#28!

C. REPLACING THE ROCKER ASSEMBLY (Illustrations B and C)

1. Depress Finger Lever Assembly-#7 and hold in DOWN position.
2. Insert Rocker Assembly-#28 into airbrush shell with Rocker-#30 portion in FORWARD Position. (Refer to Illustration B)
3. When the top of the Rocker-#30 is visible through the opening in the top of the airbrush shell (by finger lever), pull BACK on Finger Lever Assembly-#7 until it touches the Rocker-#30. Hold it there firmly, this secures the Rocker Assembly-#28 in place while re-assembling parts!
4. The Needle Support-#31 (part of the Rocker Assembly-#28) is visible through the end of the airbrush shell and will be loose (see "C").
5. Keep Finger Lever Assembly #7 with Rocker-#30 secured, in DOWN and BACK position, while replacing the Spring-#32 and Needle Adjusting Sleeve-#33.
6. Screw-in Needle Adjusting Sleeve-#33 until desired tension on the Finger Lever Assembly-#7 is achieved.
7. Replace the needle, with the Finger Lever Assembly-#7 in the DOWN position, then replace the Locknut-#34.
8. Release Finger Lever Assembly-#7. You should feel tension on the lever and it should spring-up if you depress and release it. If not, remove parts as above and repeat process.

D. REPLACING THE FINGER LEVER ASSEMBLY (Illustrations D-1 and D-2)

If the Finger Lever Assembly-#7 is removed or dislodged, it must be replaced inside the airbrush shell, before the Rocker Assembly-#28 and needle are re-inserted.

1. Hold Finger Lever Assembly-#7 so the opening in the lever is in-line with the opening in the end of the airbrush shell (see D-2).
2. The Piston-#11, which pivots on the end of the Finger Lever-#9, must be kept in DOWN position.
3. Insert Finger Lever Assembly-#7 with Piston-#11 straight DOWN through the opening in the top of the airbrush shell (see D-1 Top View). View your progress through the end of the airbrush shell. Make sure the Piston-#11 goes STRAIGHT DOWN into the base opening of the Valve Casing-#22 (inside shell-see D-2). Sometimes this takes several tries. Take your time.

4. Once the Piston-#11, of the Finger Lever Assembly-#7, has been inserted into the Valve Casing-#22, you will be able to press down on the Finger Button-#8 and it will not fall out. Proceed to replace Rocker Assembly-#28 and balance of parts as above.

E. REPLACING THE TIP (Illustration E)

1. Remove handle, loosen Locknut-#34 and withdraw needle about one inch (1").
2. Un-screw the Aircap Body-#2 and remove. The Tip-#3 is now exposed and should be easily removed by hand.
3. Place a new Tip-#3 into position and tighten Aircap Body-#2 to airbrush shell. Re-insert needle to forward position and tighten Locknut-#34.

F. ADJUSTING WORN PACKING WASHER

1. If Packing Washer-#19 becomes worn or loose, refer to steps "B" and "D" for necessary parts removal.
2. Tighten Packing Nut-#20 with small screwdriver.
3. Replace needle and make sure Packing Nut-#20 is not too tight. A slight resistance to movement is needed when needle is passed through.
4. Completely re-assemble according to step "C".

G. USING A REAMER

1. The Reamer-#5 is Optional Equipment for use in removing hardened color from inside tapered surface of the Tip-#3. It should be used only if color has become too hard for water or solvent to dissolve.
2. If it does become necessary to ream the Tip-#3, remove needle first. Insert Reamer-#5 into the large opening of tip and with slight pressure turn reamer slowly to remove hardened particles.
3. Remove reamer and flush water or solvent through the tip to thoroughly clean away any loose particles.

H. CLEANING THE AIRBRUSH

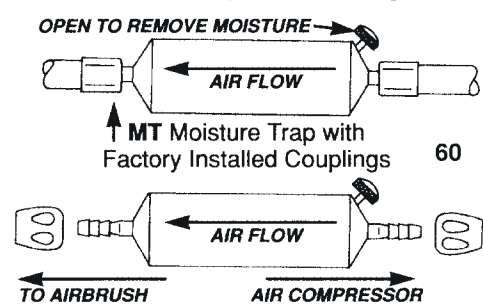
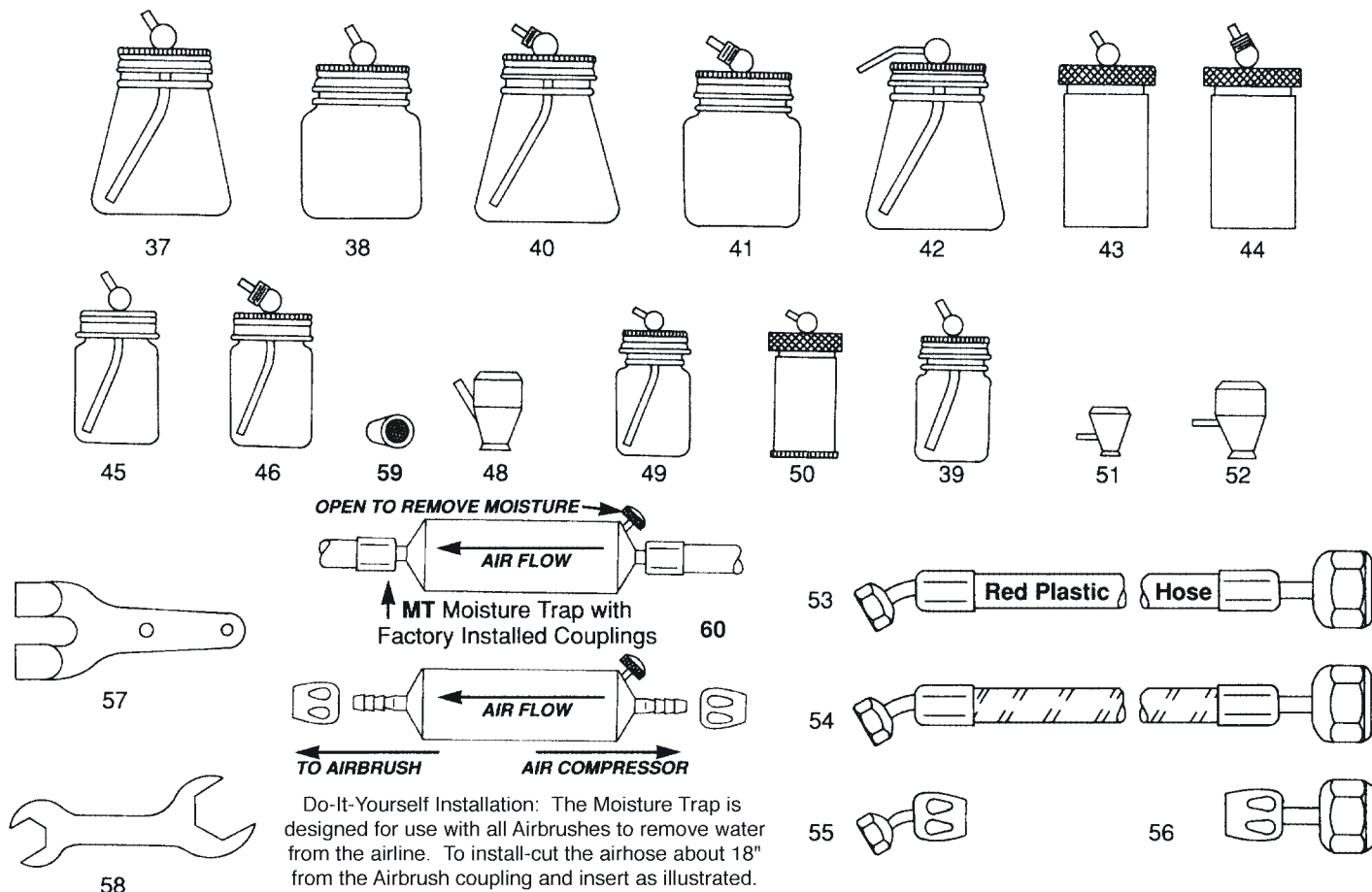
1. If Aircap-#1 is clogged with color, remove it from the Aircap Body-#2 and clean obstruction using a toothpick covered with cotton and saturated in water or solvent. Never use a sharp instrument or Reamer-#5 to clean the Aircap-#2.
2. It is not recommended to soak the entire airbrush shell in water or solvent. The Valve Washer-#23 can absorb the liquid, causing it to swell or dry out, resulting in air leakage inside the airbrush. Disassemble all parts before immersing in water or solvent.

I. TROUBLE SHOOTING

1. If paint bubbles appear in the color cup, try tightening the Aircap Body-#2 and the Aircap-#1 with the Wrench-#58 provided.
2. If paint is not spraying from the Aircap-#1 check the color cup and color inlet of the airbrush shell. Make sure they are free from any dried color, dirt or foreign matter.
3. An uneven or sputtering emission of color from the Aircap-#1 indicates that either the material being sprayed is too thick or the air pressure is too low.
4. An air leak, after the Finger Button-#8 has been released, indicates that foreign matter has worked into the Air Valve Assembly-#21 or Valve Washer-#23 and damaged them.

J. TO RESOLVE THIS PROBLEM:

1. Remove Airhose from Airbrush and blow out any accumulation in the Valve Casing-#22.
2. If the Airbrush has been used for some time it may be necessary to replace the Air Valve Washer-#23.
3. Using a small screwdriver, remove Valve Nut-#26, Valve Spring-#25 and Valve Plunger-#24.
4. The old Valve Washer-#23 can be removed by inserting blunt end of airbrush needle through the top of the Valve Casing-#22 and pushing DOWN. To expose the top of the Valve Casing-#22, the Finger Lever Assembly-#7, Rocker Assembly-#28 and Needle-#4 must be removed. **NOTE: Cover sharp point of needle to avoid injury.**
5. Blow out dirt from the Valve Casing-#22 and check valve seat for dirt and knicks. Valve seat is located inside the Valve Casing where the Valve Washer-#23 rests. (See Illustration D-2). If damaged replace Valve Casing-#22.
6. Install a new Valve Washer-#23 onto the long thin side of the Valve Plunger-#24.
7. Re-assemble Valve Plunger-#24 followed By Valve Spring-#25 and Valve Nut-#26.
8. The Valve Nut-#26 must be screwed to a depth below the surface of the Valve Casing-#22.
9. It is not necessary for the Air Valve Casing-#22 to be removed except to replace if damaged.



Do-It-Yourself Installation: The Moisture Trap is designed for use with all Airbrushes to remove water from the airline. To install-cut the airhose about 18" from the Airbrush coupling and insert as illustrated.

VL AND VLS BOTTLE AND CUP ASSEMBLIES

NO.	PART NO.	DESCRIPTION
37.	VL-3-OZ	3 oz. Bottle Assembly* (88cc)
	VL3	3 oz. Cover Assembly
	VF-14	Color Tube
	3-JG	Gasket
37.	PCVL-3-OZ	3 oz. Nylon Cover/Metal Tube Bottle Assem.* (88cc)
	VF-14M	Metal Color Tube
	3JG	Gasket
38.	VLP-3-OZ	3 oz. Plastic Bottle Assembly* (88cc)
	VL3	3 oz. Cover Assembly
	VF-14	Color Tube
	3JG	Gasket
39.	VL-1/2-OZ	Color Bottle Assembly* (14.5cc)
	VL1/2	1/2 oz. Cover Assembly W/Gasket
	VF-17	Color Tube
40.	VLS-3-OZ	3 oz. Bottle Assembly+ (88cc)
	VLS3	3 oz. Cover Assembly
	VF-14	Color Tube
	3JG	Gasket
40.	PCVLS-3-OZ	3 oz. Nylon Cover Metal Tube Bottle Assem.+ (88cc)
	VF-14M	Metal Color Tube
	3JG	Gasket
41.	VLPS-3-OZ	3 oz. Plastic Bottle Assembly+ (88cc)
	VLS3	3 oz. Cover Assembly
	VF-14	Color Tube
	3-JG	Gasket
42.	VLD-3-OZ	3 oz. Decorator Bottle Assembly* (88cc)
	VF-14	Color Tube
	3 JG	Gasket
43.	VL-2-OZ	Aluminum Cup Assembly* (60cc)
	VF-2-5/8"	Color Tube
	3JG	Gasket
44.	VLS-2-OZ	Metal Color Cup+ (60cc)
	VF-2-5/8"	Color Tube
	3JG	Gasket
45.	VL-1-OZ	Color Bottle Assembly * (29cc)
	VL1	1 oz. Cover Assembly
	VF-17	Color Tube
	5-G	Gasket (29cc)

46.	VLS-1-OZ	Color Bottle Assembly+ (29cc)
	VLS1	1 oz. Cover Assembly
	VF-17	Color Tube
	5-G	Gasket
48.	VL-1/4-OZ	Metal Color Cup * + (7cc)

V and VV CUP AND BOTTLE ASSEMBLIES

49.	VFA-1/2-OZ	Color Bottle Assembly (14.5cc)
	VFA1/2	1/2 oz. Cover Assembly W/Gasket (14.5cc)
	VF-7	Color Tube
45.	VFA-1-OZ	Color Bottle Assembly (29cc)
	VFA1	1 oz. Cover Assembly
	VF-7	Color Tube
	5-G	Gasket
50.	V-1-OZ	Aluminum Cup Assembly (29cc)
	VF-7	Color Tube
	AE-31	Gasket
51.	V-1/8-OZ	Metal Color Cup (3.5cc)
52.	V-1/4-OZ	Metal Color Cup (7cc)

AIRHOSES W/FACORY INSTALLED COUPLINGS

53.	HP-1/8"	PVC-Red Plastic Airhose W/Couplings
54.	A-1/8"	Braided Airhose W/Couplings

COUPLINGS—OLD STYLE REPLACEMENTS

55.	AC-20	1/8"-1/4"-40 Coupling (To Airbrush)
56.	AC-1/8"	-1/4" Coupling (To Compressor)

ACCESSORIES

57.	A-34	Hanger
58.	V-62	Wrench
59.	VL-127	Strainer for Teflon® White Color Tubes Only
60.	MT	Moisture Trap (Do-It-Yourself Installation)

*Cup or Bottle for VL Airbrush
 †Cup or Bottle for VLS Airbrush