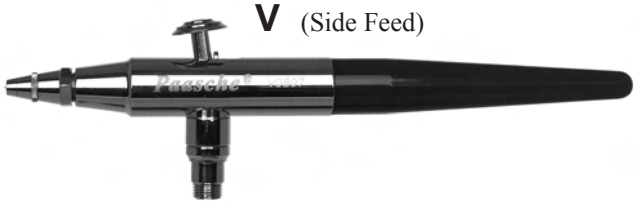
Paasche®

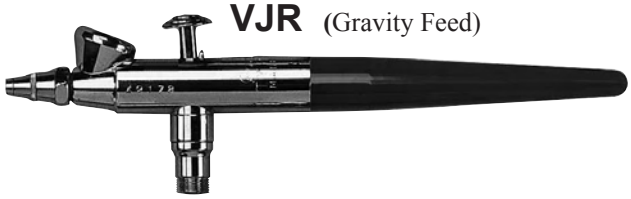
V, VV and VJR
Internal Mix - Double Action Airbrushes - PTFE Packings

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.

V (Side Feed)



VJR (Gravity Feed)



INTRODUCTION:

Paasche® models V, VV (left hand) and VJR feature hand crafted construction using quality materials. The bodies are machined brass, polished and chrome plated. Fluid tips are made from nickel silver, needles are stainless steel, the packing washer is PTFE 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.

Head Sizes - Patterns - Fluid Thickness

Size 1 - Tip size .010 inches or .25mm
- Used for fine detail. Pencil Line to 1" patterns
- Paint must be thinned further than 2 head

Size 2 -Tip size .026 inches or .66mm
- Less detail than the size 1 head. 1/32" to 1-1/2" patterns
- Can spray slightly thicker paint than size 1 head

Working Pressures:

• Operating pressures 20-55 PSI; Maximum pressure 75 PSI
• 20-30 PSI is best for detail spraying w/ properly thinned paint
• Use the higher pressures for thicker material where fine detail is not critical or thin the paint to allow lower pressures.

Equipment Set-up:

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

1. Attach airhose to air supply and to airbrush. If regulator set pressure between 20 -30 PSI.
2. For V or VV attach the color cup or bottle assembly to color socket.
3. Remove Head Protecting Cap #1, page 2.

Airbrush Operation:

1. Press down on Trigger to release air and pull back on Trigger to control quantity of color.
2. 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.
3. 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.
4. Speed of movement controls density of color and fading effects at beginning and end of strokes.
5. For detail, hold the airbrush very close to the surface push down for air and pull back very slowly on the Trigger to release a small amount of paint.
6. For background work and broad effects, hold the airbrush away from the work surface and pull back on Trigger to release required amount of color.
7. For Stippling remove the aircap, push down on the Trigger and pump the Trigger forward and back. Adjust the air pressure between 15 and 50 PSI for desired stipple effect.
8. For more instruction see the “22 Airbrush Lessons for Beginners” booklet enclosed with your airbrush.

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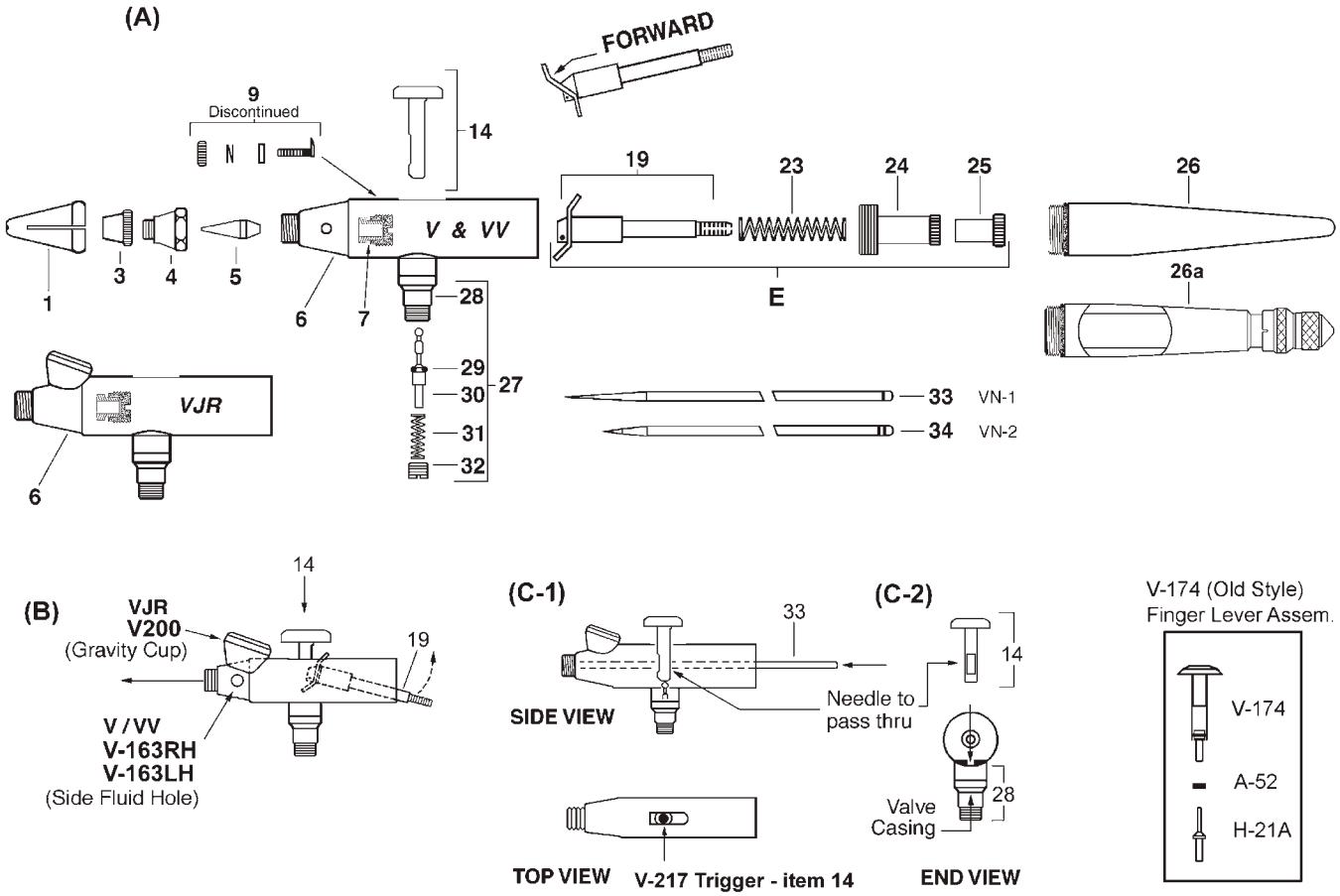
Printed in the U.S.A.



V, VV (Side Feed)and VJR (Gravity Feed) AIRBRUSH PARTS

NO	PART	DESCRIPTION
1.	**V-189**	Head Protecting Cap
4.	**VB**	Aircap Body
	VM-1 or 2	Multiplehead (Select Size)
3.	**VA-1 or 2**	Aircap (Select Size)
33 or 34.	**VN-1 or 2**	Needle
5.	**VT-1 or 2**	Tip (Select Size)
6.	**V-163RH**	V Right Hand Shell Assem.
	V-163LH	VV Left Hand Shell Assem.
	V-200	VJR (Cup in shell)Shell Assembly
	V-20	Valve Casing W/ above shells
7.	**V-218**	PTFE Packing & Packing Nut (sold as set)
9.	**V-175**	Line Adjusting Assem. (discontiued)
14.	**V-217**	Trigger
E.	**V-186**	Needle Valve Assem. L/Needle
19.	**V-191A**	Rocker Assembly
23.	**V-140**	Spring
24.	**V-136A**	Needle Adjusting Sleeve
25.	**V-141**	Locknut

NO	PART	DESCRIPTION
26.	**F-143**	Handle
26a.	**TAL-34**	Handle & Stop Assembly (Optional) - allows for preset paint flow
27.	**V-221**	Air Valve Assembly
28.	**V-20**	Valve Casing
29.	**A-53**	Valve 'O' Ring (pack of 6)
30.	**VL-214**	Valve Plunger (with A-53)
31.	**A-22**	Valve Spring
32.	**A-23R**	Air Valve Nut
33.	**VN-1**	Needle
34.	**VN-2**	Needle

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

1. Unscrew the handle and loosen the Locknut #25 by turning counterclockwise. Trigger #14 and hold in Down position while removing or inserting the needle. This assures the needle moves freely through the Trigger. 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 & Nut Assembly #7. If there is no noticeable drag on the needle by the packing, then tighten the Nut of the Packing & Nut Assembly #7.
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 #5 causing bubbles or a rough spray pattern.
4. Hold trigger in DOWN position, insert the new needle into the Rocker Assembly #19. Gently push needle through, rotating if necessary, push gently forward until the needle stops in the front of the tip.
5. Release trigger and tighten locknut by turning clockwise.

REPLACING THE TRIGGER (Illustrations C-1 and C-2):

If the Trigger #14 is removed, it must be replaced inside the airbrush shell before the Rocker Assembly #19 and needle are re-inserted.

1. Hold trigger so the opening in the lever is in-line with the opening in the end of the airbrush shell (see C-2).
2. Insert trigger straight DOWN through the opening in the top of the airbrush shell (see C-1).
3. Once the trigger has been inserted into the valve casing, you will be able to press down on the tirgger and it will return to the up position when released. Proceed to replace rocker assembly and balance of parts as above. The needle when inserted will prevent the removal of the trigger.

REPLACING THE TIP:

1. Remove handle, loosen Locknut #25 and withdraw needle about one inch (1").
2. Un-screw the Aircap Body #4 and remove. The Tip #5 can now be easily removed by hand. If stuck in shell tap lightly with wrench.
3. Place a new tip into position and tighten aircap body to shell with a wrench. Push needle forward until it seats fully forward in tip and then tighten locknut.

ADJUSTING WORN PACKING WASHER:

1. If PTFE Packing #7 becomes worn or loose it must be tightened or replaced.
2. Tighten the Packing Nut of the assembly #7 with small screwdriver. To reach packing, guts of airbrush must be removed.
3. Replace needle and make sure packing nut is not too tight. A slight resistance to movement is needed when needle is passed through.
4. Completely re-assemble guts of airbrush.

CLEANING THE AIRBRUSH:

1. Paint passes from the bottle connection forward so the trigger area back will most likely not need cleaning.
2. You can back flush the paint into your bottle by covering the aircap with your finger and then pressing down on the trigger and pulling slightly back. This forces paint from the fluid passage back into the bottle. **Never use open cup for back flushing.**
3. In between color changes or before storing the airbrush attach bottle with appropriate cleaner and spray into sink until it runs clear.
4. Remove needle and wipe clean then replace.
5. If paint has dried for a time you can remove the front tip, aircap and aircap body for soaking or soak just the front of the airbrush in cleaner.
6. Use cleaner for the material you are spraying. Keep trigger area dry if soaking.

PERSONAL SETTINGS:

Needle Adjustment Sleeve- Used to increase or decrease spring tension for the trigger pull back. Thread into the shell until the trigger stroke feels comfortable. Threading in until it stops can cause the trigger to jam.

TROUBLESHOOTING:

Bubbling in cup

1. VB Aircap Body #4 needs to be wrench tightened

Skipping or spitting:

1. Paint too thick	-Reduce with thinner
2. Tip not seated	-Tighten VB aircap body with wrench
3. Tip split or damaged Needle	-Replace tip or needle
4. Needle or tip dirty	-Clean and replace
5. Air pressure too low	-Increase pressure or thin paint further (need 20 or more PSI to spray most paints)

Airbrush not spraying:

1. Clogged Tip	-Remove tip and clean
2. Needle not moving	-Tighten needle locknut
3. Loose VB aircap body	-Wrench tighten
4. Low air pressure	-Increase pressure (need 20 or more PSI to spray most paints)
5. Bottle vent hole plugged	-Use needle or pin to clear air hole

Sprays double line or heavy to one side:

1. Split tip or bent needle	- Replace
2. Dirty tip or needle	- Remove and clean
3. Tip not centered in aircap	- Remove head and clean airbrush seat and tip seat then reassemble. Use wrench for aircap body

Jammed trigger or poor trigger motion:

1. Adjust Needle Adj. Sleeve	- Screw or unscrew the sleeve to lessen or increase tension on trigger motion
2. Paint leaking to trigger area	- Remove guts of airbrush and slightly tighten packing or replace if needed
3. Lubricate needle and trigger	- Apply lubricant to needle shaft and trigger slot area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V, VV and VJR BOTTLE AND CUP ASSEMBLIES

45. **VFA-1-OZ** Color Bottle Assembly (29cc)
    VF-7 Color Tube
    5-G Gasket

49. **VFA-1/2-OZ** Color Bottle Assembly (14.5cc)
    VF-7 Color Tube

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/FACTORY INSTALLED COUPLINGS

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

ACCESSORIES

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

Recommended Compressors and Accessories

***D500** AIR COMPRESSOR (1/8 HP)* **(ETL Listed)**

Economical and suitable for all airbrushes spraying properly thinned fluids. It is capable of delivering up to 35 P.S.I. operating pressure depending on airbrush being used. The Paasche **D500** is an oilless piston compressor. It operates on 110-120 Volt, 1 phase, 60Hz, and delivers .4 C.F.M. @ 20 P.S.I.
Shipping Weight: 8 lbs. (3.6kg)

D220R AIR COMPRESSOR (1/6 H.P.), with Switch & R-75 Regulator

Economical and suitable for all airbrushes spraying properly thinned fluids. It is capable of delivering 30 - 45 P.S.I. operating pressure depending on airbrush being used. It operates on 110-120 Volt, 1 phase, 60Hz, and delivers .7 C.F.M. @ 20 P.S.I. R75 Regulator will regulate up to 45 P.S.I. depending on usage (intermittent or constant) and size of airbrush being used.
Shipping Weight: 11 lbs. (5kg)

DA300R** AIR COMPRESSOR* **(1/6 HP)** ***with Switch* CSA approved *& R-75 Regulator

1/8 H.P. Piston Compressor with Auto shutoff. Compressor shuts off when airbrush is not in use. Operating pressure is 20 - 30 P.S.I. depending on airbrush being used, delivers up to 35 psi. 120 VAC, 1 Ph, 60 Hz, 1.4 A, 20L/Min. (0.7CFM), Noise 53dB, 1720 rpm.
Shipping Weight: 9.14 lbs. (4.6 kgs)

***D3000R** AIR COMPRESSOR (1/8 HP)*
(ETL Listed)

This piston compressor is a tank mounted unit, designed for compactness and portability. The sturdy air tank stores reserve air volume and reduces pulsation. Air pressure in the tank is regulated with an automatic on/off limit switch to a maximum of 40 P.S.I. Unit maintains 30 P.S.I. for extended periods. The unit has a five foot grounded 3 wire cord. The compressor features a **1/8 HP** motor which operates on 115 Volts, 1 Phase, 60Hz and draws .9 AMPS.
Shipping Weight: 14 lbs. (6.33kg)