

# Paasche®

## TS – Airbrush Double Action - Internal Mix Siphon Feed

INSTRUCTIONS AND PARTS LIST TS-4/21/2023



### **INTRODUCTION:**

**Paasche® model TS** features hand crafted construction using quality materials. The body is machined brass, polished and chrome plated. Needles are stainless steel & the needle packing is PTFE. Preferred by professional and hobbyist alike.

### **TS Specifications:**

• Dual Action • Siphon Feed • Internal Mix • Head Size .66mm • PTFE Packing

### **Options for Talon:**

- .25mm head (TT-1 tip, TN-1 needle and TA-1 aircap) - For finer lines using thin based paint
- .38mm head (TT-2 tip, TN-2 needle and TA-2 aircap) - Great for jobs requiring fine detail
- 1mm head (TT-4 tip, TN-4 Needle and TA-4 aircap) - For larger coverage areas
- .66mm Fan Aircap (TAF-3 aircap, TN-3 needle and TT-3 tip) will give a 2-1/2 to 3 inch flat pattern

### **Working Pressures:**

- Operating pressures 15-55 PSI; Maximum pressure 85 PSI. Fan aircap needs 20 PSI or more.
- 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 finger button.

1. Attach air hose to air supply and to airbrush. If using a regulator set pressure between 15 -55 PSI.

### **PERSONAL SETTINGS:**

Spring Housing- #TAL-17 is used to increase/decrease spring tension for the trigger pull back. Thread into the shell until the trigger stroke feels comfortable. Turning until it stops can cause the trigger to jam.

### **Airbrush Operation:**

1. Press down on Finger Button to release air and pull back on button 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 Finger Button 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 Finger Button to release required amount of color.

### **REMOVING / REPLACING THE NEEDLE AND HANDLE :**

1. Unscrew the handle and loosen the Locknut- #TAL-19 by turning counterclockwise. Depress the Trigger- #TAL-37 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. 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- #TT causing bubbles or a rough spray pattern.
3. Hold trigger in DOWN position, insert the new needle into the Rocker Assembly- #TAL-18. Gently push needle through, rotating if necessary, push gently forward until the needle stops in the front of the tip.
4. Release trigger and tighten Locknut by turning clockwise.
5. Completely re-assemble airbrush.

### **REPLACING THE FINGER LEVER ASSEMBLY :**

1. Hold trigger so the round side of the stem is to the front and flat side to the back of the airbrush.
2. Insert trigger straight DOWN through the opening in the top of the airbrush shell.
4. You want the bottom of the trigger to cover the round ball on top of the exposed plunger. Once the connection is made you should have spring action when pushing down on the trigger. Proceed to replace Rocker Assembly and balance of parts as above. When the needle is inserted it will prevent the removal of the trigger.
1. Remove handle, loosen Locknut- #TAL-19 and withdraw needle about one inch (1").
2. Un-screw the Aircap- #TA and remove. The Tip- #TT can now be Unscrewed with Wrench #TAL-28. until it is seated fully forward into tip.
3. Place a new tip into position and tighten with wrench. The tip must be wrench tight. Finally push the needle forward

### **ADJUSTING WORN PACKING WASHER:**

1. If Packing Assembly- #TAL-8 becomes worn or loose it must be tightened or replaced.
2. Tighten packing nut with small screwdriver. To reach packing all internal parts 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.

### **REPLACING THE TIP:**

1. Remove handle, loosen Locknut- #TAL-19 and withdraw needle about one inch (1").
2. Un-screw the Aircap- #TA and remove. The Tip- #TT can now be unscrewed with Wrench- #TAL-28.
3. Replace tip and tighten with wrench. The tip must be wrench tight. Push needle forward and lock.

### **CLEANING THE AIRBRUSH:**

1. Paint passes from the bottle connection forward so the trigger area back will should 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 back into the bottle. Never use open cup for back flushing.
3. In between color changes or before storing fill bottle with cleaner and spray into sink until it runs clear.
4. Remove needle and wipe clean then replace.
5. If paint has dried you can remove the tip and aircap 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.

### **TROUBLESHOOTING:**

#### **Bubbling in cup:**

1. Aircap- #TA needs to be tightened
2. Tip- #TT needs to be tightened further

#### **Skipping or Spitting:**

1. Paint too thick -reduce with thinner
2. Tip not seated -tighten Tip- #TT 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 (20 or more PSI to spray most paints)

#### **Airbrush Not Spraying:**

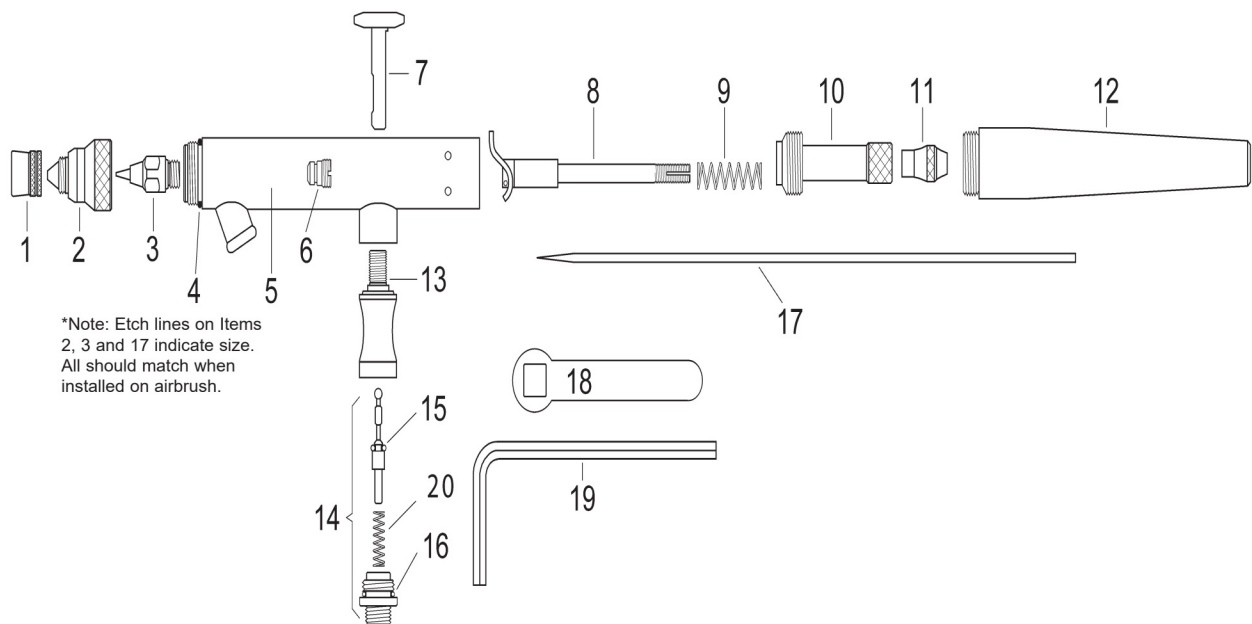
1. Clogged tip -remove tip and clean
2. Needle not moving -tighten needle locknut
3. Low air pressure -increase pressure (need 20 or more PSI to spray most paint)

#### **Sprays double line or heavy to one side:**

1. Split tip or bent needle - replace
2. Dirty tip or needle - remove and clean

#### **Jammed trigger or poor trigger motion:**

1. Adjust Spring Housing - screw or unscrew the housing 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 Airbrush Lube (AL-2) to needle shaft and trigger slot area



\*Note: Etch lines on Items 2, 3 and 17 indicate size. All should match when installed on airbrush.

NO.	PART	DESCRIPTION
1.	XI-41	Needle Protection Cap
*2.	TA-3	Aircap (.66mm)
*3.	TT-3	Tip (.66mm)
4.	MIL-12	"O" Ring
5.	TS-30	Shell Assembly
6.	TAL-8	Packing Assembly PTFE
7.	TAL-37	Trigger
8.	TAL-18	Rocker Assembly
9.	MIL-11	Needle Spring
10.	TAL-17	Spring Housing
11.	TAL-19	Needle Lock Nut
12.	TS-33	Handle
13.	TAL-14	Valve Casing
14.	TAL-32	Air Valve Assembly
15.	A-53	"O" Ring
16.	TAL-22	"O" Ring
*17.	TN-3	Needle (.66mm)
18.	TAL-28	Wrench
19.	TAL-35	Allen Wrench
20.	A-22	Spring

Optional Parts:

Head components:

TAF-3	Fan Aircap for .66mm Head- (use with TT-3 & TN-3)
TT-1, 2 or 4	Tip (.25mm .38mm 1mm)
TN-1, 2 or 4	Needle (.25mm & .38mm)
TA-1, 2 or 4	Aircap (.25mm & .38mm)
TAL-34	Handle with Needle Stop

Complete Head

T-227-1	Size 1 Head (.25mm)
T-227-2	Size 2 Head (.38mm)
T-227-3	Size 3 Head (.66mm)
T-227-4	Size 4 Head (1mm)

Airhoses with Couplings

A-1/8-size	Braided Airhose (6', 8', 10', 15', 20', 25' & 50')
HPB-1/8-10	10' Black Plastic Airhose

**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. **Maximum Air Pressure 75 P.S.I.**