

*Eastwood*

DO THE JOB RIGHT.

Part #51550

# CONCOURS HVLP PAINT GUN

## INSTRUCTIONS



The **EASTWOOD CONCOURS HVLV PAINT GUN** is a professional level paint gun specifically designed for optimal internal paint and air flow. Offering precise control and fine atomization, this paint gun is capable of producing superior finish results.

## CONTENTS

- (1) HVLV Paint Gun with 1.2mm fluid nozzle
- (1) 600cc Acetyl Paint Cup
- (1) Cleaning Set



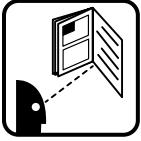
## SPECIFICATIONS

- 4.0 CFM @ 29 psi (2 to 2.5 Bar)
- 1/4" male NPT input threads
- M16 x 1.5 NPS paint cup attachment threads
- 1.2mm stainless steel needle/nozzle set (others available)

# SAFETY INFORMATION

## **⚠ WARNING**

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



## **⚠ READ INSTRUCTIONS**

Thoroughly read and understand this manual before using the Concours Paint Gun. Save for future reference.



## **⚠ WARNING FIRE & EXPLOSION HAZARD!**

Paints and solvents are flammable. Do not use near sparks, open flame, or other potential ignition source.



## **⚠ WARNING HEALTH HAZARD!**

- Avoid breathing vapors produced by the spray gun. Always wear NIOSH-approved breathing apparatus and use in a well-ventilated area.
- Wear appropriate eye protection.
- Wear solvent-resistant gloves.



## SET-UP

- Remove all components from carton, identify them and become familiar with their purpose.
- A 5/16" I.D. minimum air hose at a 25' maximum length is strongly recommended for best results. Smaller I.D. hose and greater length may produce unsatisfactory results.
- A clean, dry, regulated air supply is required. The use of an additional "on the gun" regulator is strongly recommended to accurately control gun pressure while painting.
- Clean out the paint cup as well as the paint gun air and paint passages with a solvent such as Eastwood PRE or acetone to remove any residual manufacturing impurities before use. Dry thoroughly.

# GUN SETTINGS

## AIR CAP

Make sure the Air Cap is properly oriented in a horizontal plane to produce a vertical fan spray pattern (as viewed from the front). To adjust, loosen Retaining Ring by rotating counter-clockwise slightly, adjust Air Cap then re-tighten Retaining Ring (**FIG A**).

## FLUID CONTROL

The Fluid Control knob (located at the rear of gun body) regulates the distance the Needle travels and the amount of paint flowing through the gun. **NOTE:** Generally for higher viscosity coatings, a wider opening is desired while a narrower opening is better suited for lower viscosity fluids. To adjust, rotate the Fluid Control Knob outward (counter-clockwise as viewed from the rear) to increase flow and turn inward to reduce flow (**FIG A**).

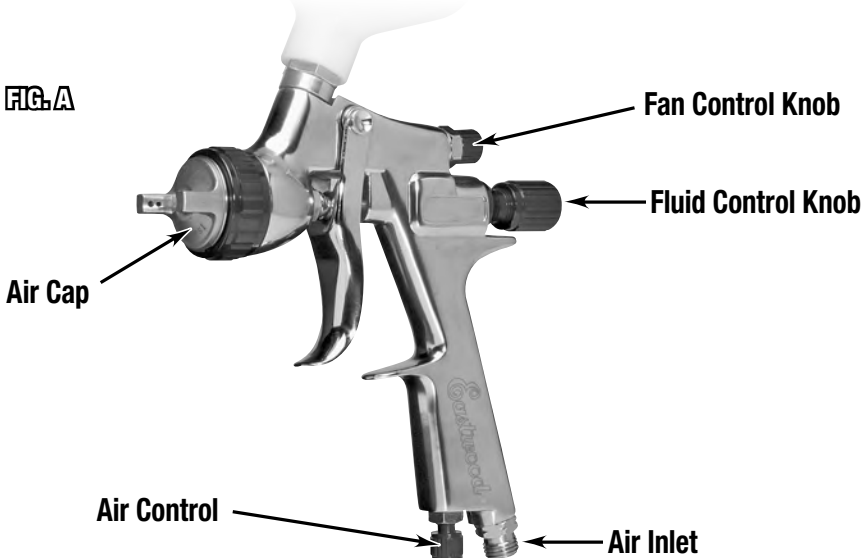
## FAN CONTROL

The Fan Control knob (located at the upper rear of the paint gun body) controls the size and shape of the spray pattern or “fan”. Rotating the knob counter-clockwise will produce a larger and softer spray pattern. While rotating it clockwise will result in a smaller, sharper pattern. For most painting conditions, a larger, softer fan is desired (**FIG A**).

## AIR CONTROL

The Air Control knob (located at the bottom of the gun handle adjacent to the air inlet) is opened by rotating in a counter-clockwise direction (as viewed from the bottom of the gun). This is for “fine tuning” the airflow to the gun. You will generally want to set the inlet pressure at the regulator. Start with the Air Control in the full open position and decrease air as needed (**FIG A**).

- With practice, you will quickly acquire a “feel” for the gun and will be producing professional results.
- When you have achieved your optimal knob settings, note their positions with the indicators on the gun body and knobs. This will assist in quickly “tuning” the gun for future uses.



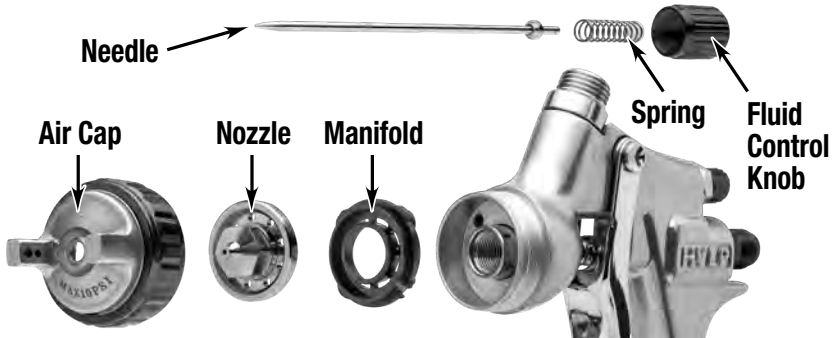
# IMPORTANT NOTES BEFORE PAINTING

1. Please note that many variables may affect the adjustment of a paint gun including paint viscosity and type, atmospheric conditions such as humidity, barometric pressure and temperature, as well as air inlet pressure and operator preference. Always “tune” the gun before each use as prevailing conditions may not be the same as the previous use.
2. It is always best to test spray, the actual paint you will be applying, on sheets of cardboard or masking paper while making your adjustments to become familiar with the gun and achieve the ideal Fluid Control Setting.
3. Remember that a small amount of product wasted at this point can avoid disappointment in your results and the need to re-do your work later.

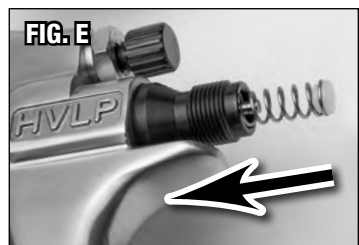
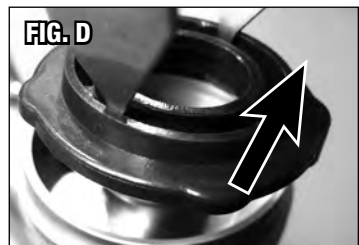
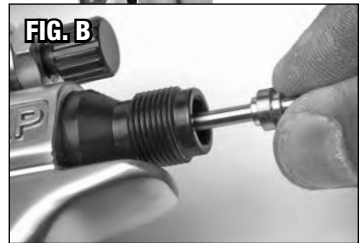
## CLEAN-UP

- Disconnect air supply to gun.
- Remove Paint Cup and pour unused coating into proper container.
- Wipe out any excess coating then thoroughly rinse the Paint Cup with a mild solvent compatible with the coating being used.
- Fill Paint Cup with solvent and pull the trigger to allow fluid to run through until it flows clear. Note, as an alternative, #12846Z Eastwood Aerosol Injected Gun Cleaner is excellent for this purpose.
- Pour out any unused solvent and remove paint cup.
- Allow solvent to dry completely from all components.
- Dispose of waste solvents and all other liquid materials according to your local laws and regulations.

# PAINT GUN DISASSEMBLY FOR ADDITIONAL CLEANING OR REBUILDING



1. Remove Air Cap Assembly.
2. Remove Nozzle with included 12mm wrench.
3. Unthread and remove Fluid Control Knob from rear of Paint Gun body.
4. Carefully remove Needle Spring with Bushing and Needle by firmly gripping rear of Needle and pulling out through rear of Paint Gun body (**FIG B**).
5. Remove brown plastic Air Manifold (note position of locating pin on manifold to bore in Paint Gun body for re-assembly) with special removal tool by placing hooks facing downward, through manifold openings, under spokes and pulling directly outward toward front of Gun Body (**FIG C & D**).
6. Inspect and clean as required.
7. Replace Air Manifold. Be sure to correctly position the locating pin on manifold into bore in Paint Gun body.
8. Replace Needle by sliding into bore in rear of Paint Gun body until it seats.
9. Slide Needle Spring w/bushing over the rear of the Needle (**FIG E**).
10. Replace Nozzle by threading into front of Gun Body and tighten firmly with included 12mm wrench (Do not over tighten).
11. Replace Air Cap by threading Retaining Ring onto Gun Body. Make sure the air horns of the Air Cap are oriented properly.



# TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
<b>Heavy textured or “orange peel” paint appearance</b>	Paint Gun is too close to surface	Keep within 8" to 12".
	Inlet air pressure too low	Increase inlet air pressure & or decrease fluid flow.
	Incorrect thinner/reducer	Check paint manufacturer's reducing/thinning instructions.
	Incorrect material mix ratios	Check paint manufacturer's mix ratio instructions.
<b>Excessive runs and sags</b>	Paint Gun being moved too slowly over surface	Speed up gun motion over surface.
	Excessive fluid flow	Decrease fluid flow by adjusting “fluid” knob.
	Paint mixed too thin	Check paint manufacturer's reducing/thinning instructions.
<b>“Dry” paint appearance</b>	Paint Gun is too far from surface	Keep within 8" to 12".
	Paint Gun being moved too fast over surface	Slow down gun motion over surface.
	Inlet air pressure too high	Decrease gun inlet air pressure and or increase fluid flow.
	Incorrect thinner/reducer.	Check paint manufacturer's reducing/thinning instructions.
<b>Thin paint appearance</b>	Paint Gun is too far from surface	Keep within 8" to 12".
	Paint Gun being moved too fast over surface	Slow down gun motion over surface.
	Inlet air pressure too high	Decrease gun inlet air pressure & or increase fluid flow.
	Incorrect thinner/reducer	Check paint manufacturer's reducing/thinning instructions.
<b>Gun “spurts” at initial trigger pull then evens out</b>	Air regulator set too far back in line causing pressure build up in air line	Paint gun regulator must be attached at inlet of paint gun.

# TROUBLESHOOTING continued

PROBLEM	CAUSE	CORRECTION
<b>Paint spray is sputtering</b>	Paint Gun is dirty or contaminated	Disassemble and clean gun with suitable solvent.
	Nozzle or Air cap loose	Tighten Nozzle and or Air Cap.
	Needle tip or Nozzle seat damaged	Replace Needle/Nozzle set.
	Gun being tipped too far down.	Operate gun with tip tilted no more than 45° down or up.
<b>“Dogbone” shaped spray pattern</b>	Inlet air pressure too high	Decrease inlet air pressure at gun.
	Fluid flow adjusted too low	Increase fluid flow adjustment on gun.
<b>Exaggerated “Football” shaped spray pattern</b>	Inlet air pressure too low	Increase inlet air pressure at gun.
	Fluid flow adjusted too high	Decrease fluid flow adjustment on gun.
	Paint mixture too thick	Check paint manufacturer’s mix ratio instructions or thin if possible.
	Incorrect thinner/reducer	Check paint manufacturer’s reducing/thinning instructions.

## ADDITIONAL ACCESSORIES

- #51550A 600cc Full-Size Concours Plastic Cup
- #51550B 600cc Full-Size Concours Metal Cup with Teflon® Coating
- #51551 1.2mm Full-Size Concours Needle/Nozzle/Air Cap Set
- #51552 1.4mm Full-Size Concours Needle/Nozzle/Air Cap Set
- #51553 1.8mm Full-Size Concours Needle/Nozzle/Air Cap Set
- #51554 2.2mm Full-Size Concours Needle/Nozzle/Air Cap Set
- #51660 Full-Size Concours Gun Rebuild Kit
- #50207 DeKups Adapter for Large Concours Gun
- #11549 3M PPS #2 Adapter for Large Concours Gun
- #12846Z Aerosol-Injected Cleaner

**If you have any questions about the use of this product, please contact**

The Eastwood Technical Assistance Service Department: 800.544.5118 >> email: [techelp@eastwood.com](mailto:techelp@eastwood.com)

PDF version of this manual is available online >> [eastwood.com/51550manual](http://eastwood.com/51550manual)

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