Eastwood

DO THE JOB RIGHT.

EVOLUTION™ HVLP PAINT GUN

INSTRUCTIONS

Item #12776

This Eastwood Evolution HVLP Paint Gun is a precision engineered gun designed for use by the seasoned professional or hobbyist. It is capable of producing a high quality paint finish and will provide many years of trouble free service. The body is constructed of highly durable and lightweight composite material with Stainless Steel internal components which are compatible with both solvent and water borne coatings. Convenient reference markings on the gun body and control knobs allow for accurate repeatability of gun settings.

INCLUDES

(1) Evolution HVLP Paint Gun
(1) 1.4 mm Air Cap, Stainless Steel Needle & Nozzle (other sizes available)
(1) 600cc solvent resistant plastic cup
(1) Rebuild Kit

SPECIFICATIONS

- 7.5 CFM @ 43 PSI max. working pressure at the air inlet, 10 PSI max. at the Air Cap
- M16 x 1.5NPS cup attachment threads
- 1/4" NPT Air Inlet threads
- Lightweight, high-strength composite gun body for use with the latest water borne paints and solvent based coatings

SAFETY INFORMATION

READ INSTRUCTIONS!

Thoroughly read and understand this instruction manual before use.

FIRE & EXPLOSION HAZARD!

Do not use near sparks, open flame, or other potential ignition source.

HEALTH HAZARD!

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

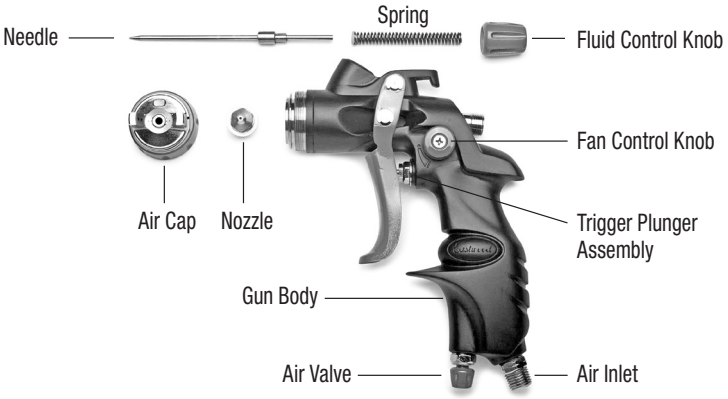
SET UP

1. A **5/16" I.D. minimum** air hose at a **25' maximum length** is recommended for best results. A smaller I.D. hose and greater length will reduce the performance of the gun and produce unsatisfactory results.
2. Set air pressure to 29 PSI (1.9 Bar) and adjust up or down as required.
3. Depress trigger to check for smooth operation and become familiar with the "feel" of the gun.
4. Clean out cup and gun, including air passages, with solvent to remove any residual manufacturing impurities and dry thoroughly.

OPERATION

Please note that many variables affect the adjustment of a paint gun such as paint viscosity and type, atmospheric conditions and operator preference. The following are some guidelines to get started but some time spent acquiring the "feel" of the gun and test spraying on sheets of masking paper taped to a wall are recommended before applying paint to your project. This gun has been designed with convenient, graduated reference markings on the gun body and control knobs to help achieve repeatability of desired gun settings, however, always "tune" the gun before each use as prevailing conditions may not be the same as the previous use.

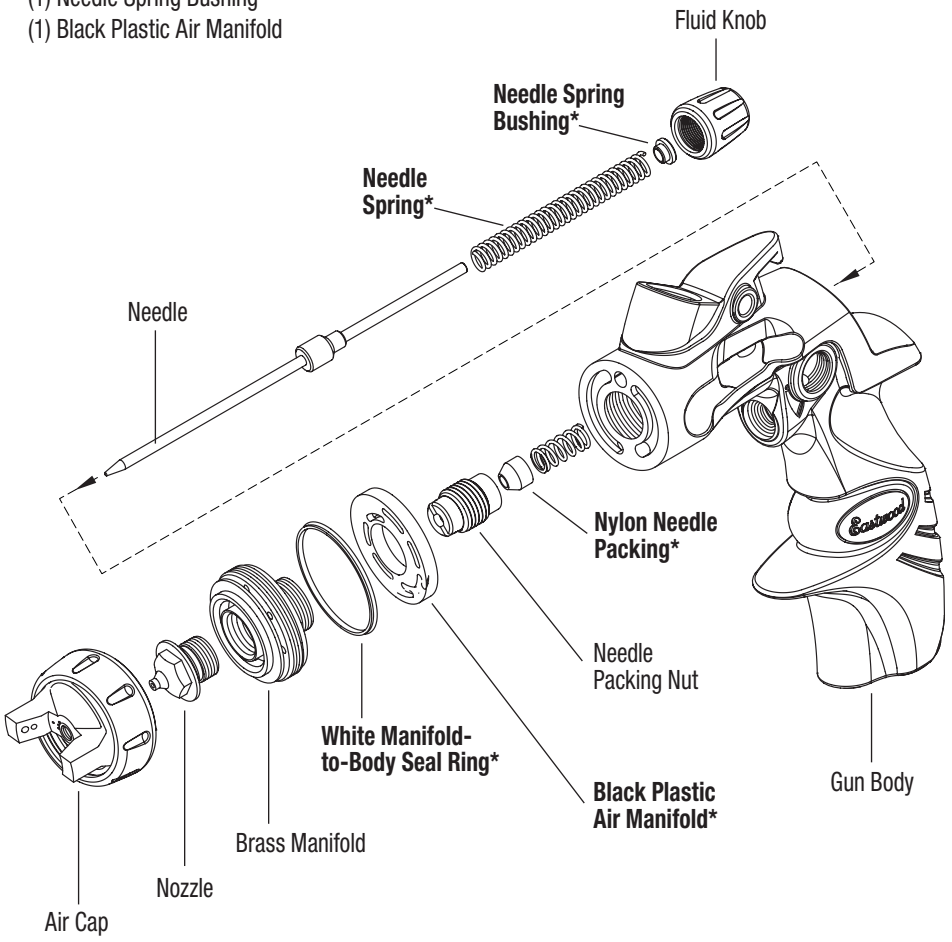
1. The Fan control knob (smaller blue knob at the top left of gun) is opened by turning in a counter-clockwise direction. This controls the size of the spray pattern or "fan" and the droplet size. Out with the knob = larger pattern/larger droplet size, in = smaller pattern/smaller droplet size.
2. The Fluid control knob (larger blue knob at the top rear of gun) is opened by turning in a counter-clockwise direction. This controls the amount of paint flow to the nozzle. Out with the knob = more paint flow, in = less paint.
3. The Air Valve control knob (small blue knob at the bottom of the gun near the air inlet) is opened by turning in a counter-clockwise direction. This is a "fine tuning" for air flow in the gun. You generally want to start out fully open and decrease air as needed.
4. With practice you will quickly acquire a "feel" for the gun and will be producing professional results.
5. 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 in future uses.



INSTALLING THE REBUILD KIT

The **Eastwood Evolution Paint Gun Rebuild Kit** includes the common wear parts necessary to restore like-new performance to your Evolution gun. If you need additional Rebuild Kits, order Eastwood Item #14753. **Kit includes:**

(2) Manifold-to-Body Seal Rings
(1) Nylon Needle Packing
(1) Needle Spring
(1) Needle Spring Bushing
(1) Black Plastic Air Manifold



***Included in Rebuild Kit**

DISASSEMBLY FOR PARTS REPLACEMENT

- Remove the Needle Knob, Needle, and Needle Spring with Bushing from the Gun Body using included wrench.
- Remove the Air Cap assembly and the Nozzle.
- Remove the Brass Manifold by inserting an 8mm hex key (3/8" hex key on older model guns) and place aside for re-use (Fig A).
- Remove White Plastic Seal Ring and discard.
- Remove Black Plastic Air Manifold and discard.
- With a flat-blade screw driver, carefully remove the Needle Packing Nut (Fig B).
- Using the Needle as a tool, carefully push the White Nylon Needle Packing from the Needle Packing Nut (Fig C).

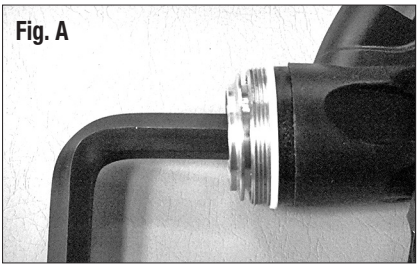


Fig. A

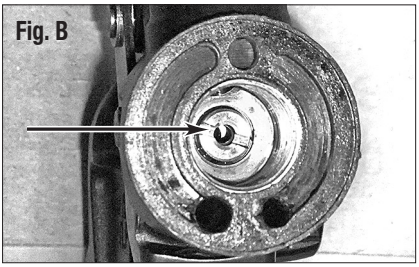


Fig. B

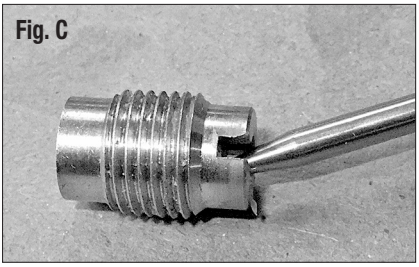


Fig. C

REASSEMBLY

- Insert the new White Nylon Needle Packing into the Needle Packing Nut and seat fully (Fig D). **NOTE:** Install the Packing with the chamfered side in (Fig E).
- Re-install Packing Spring into Packing Nut behind Spring.
- Re-install the Needle Packing Nut with Packing and Packing Spring into the gun body and tighten in place with a flat-blade screw driver.

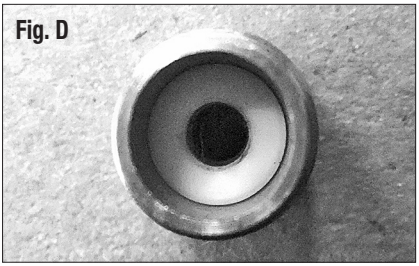


Fig. D

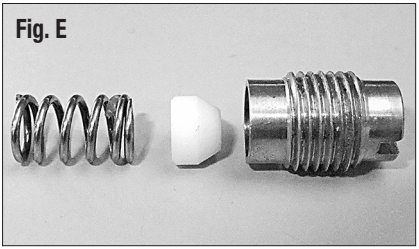


Fig. E

- Slide the Needle into the rear of the Gun Body and seat it fully (Fig F).
- Place the Needle Spring with Needle Spring Bushing facing rearward over the rear end of the Needle (Fig G).
- Thread the Needle Knob back into the rear of the gun body (Fig G).
- Place the Black Plastic Air Manifold back over the front of the Gun Body (Fig H).
  NOTE: Be sure the round peg of the Black Plastic Air Manifold faces inward and locks into the corresponding hole at the top front of the Gun Body.
- Place the replacement White Nylon Seal Ring over the stepped area of the Brass Manifold (Fig H). **NOTE:** The wider side faces toward the Brass Manifold.
- Being careful not to pinch the Seal Ring between the Brass Manifold and the Gun Body, thread the Brass Manifold into the Gun Body and tighten with the 8mm hex key (3/8" hex key on older model guns) (Fig H).

Fig. F

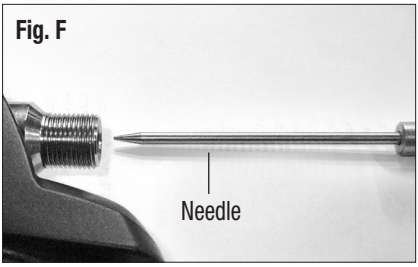


Fig. G

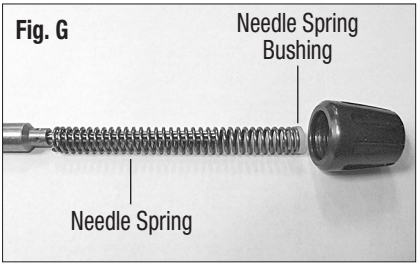
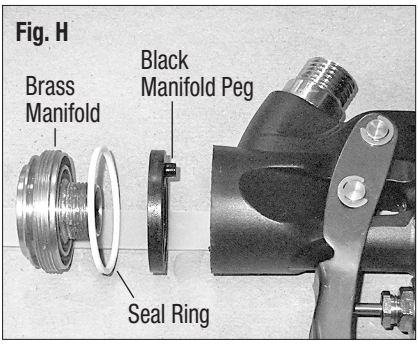


Fig. H



GUN MAINTENANCE & CLEANING

Note: It is extremely important that the gun be disassembled and cleaned after every use!

1. Pour out then wipe out any remaining paint in the cup, fill the cup with appropriate solvent and run through gun until clear.
2. Remove the Cup.
3. Remove the Fluid control knob (smaller blue knob at the top rear of gun) fully by turning in a counter-clockwise direction.
4. Remove the spring with the Fluid control knob and pull the Needle out from the rear of the gun.
5. Remove the Air Cap.
6. Remove the Nozzle by unthreading it with the included #13 hex wrench.
7. Inspect the internal passages of the gun for any remaining traces of paint and using the included brush and appropriate solvent, clean out the passages and rinse.
8. Blow out any remaining water or solvent and reassemble the gun in the following order:
   - Thread the Nozzle into its bore and snug in place with the included #13 hex wrench.
   - Slide the needle back into place.
   - Slide the spring over the end of needle and thread the Fluid Control knob on.
   - Thread the Air Cap onto the end of the gun keeping the air horns in the horizontal plane.

OPTIONAL ACCESSORIES

#12776E	1.2 Cap, Needle & Nozzle Set
#12776B	1.4 Cap, Needle & Nozzle Set
#12776C	1.7 Cap, Needle & Nozzle Set
#12776D	2.0 Cap, Needle & Nozzle Set
#50207	DeVillbiss DeKups Adapter
#11549	M16 x 1.5NPS 3M PPS Adapter
#51550A	600cc Plastic Cup
#51550A	600cc Aluminum Cup with internal Teflon coated surface
#51559	Digital Regulator for gun air inlet
#12846Z	Aerosol Injected Gun 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

PDF version of this manual is available online >> eastwood.com/12776manual

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