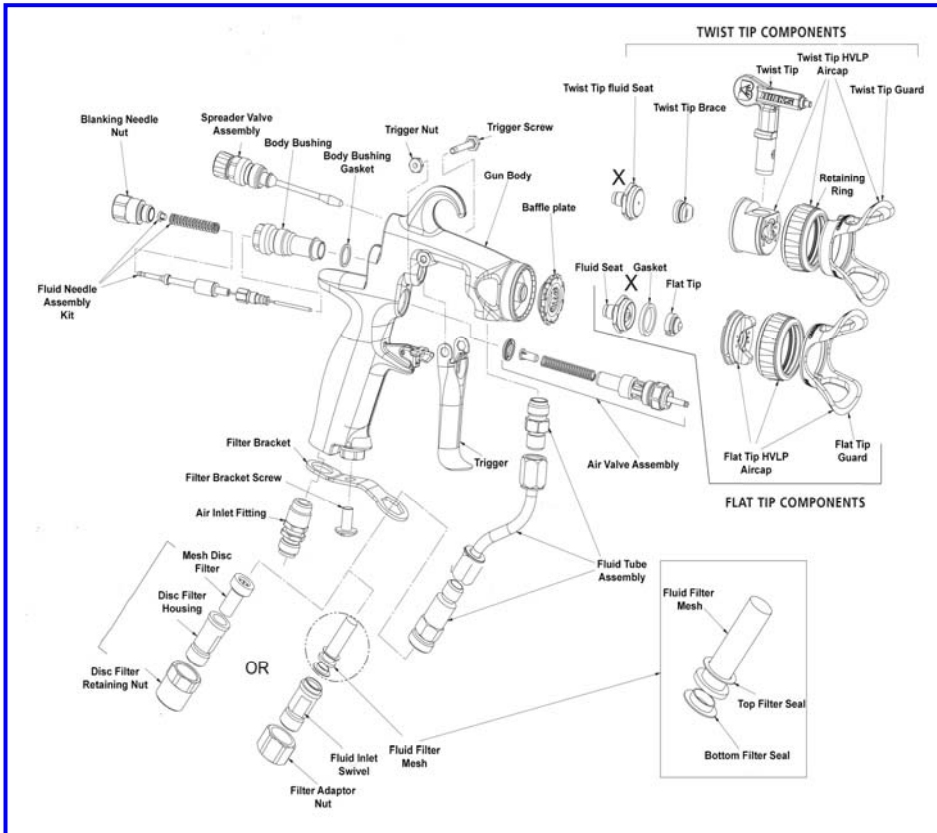
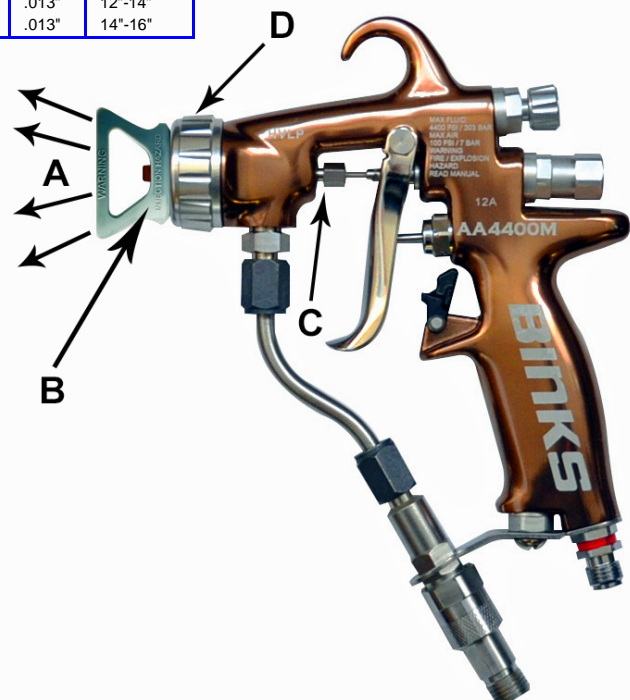


AA4000M AIR ASSISTED AIRLESS SPRAY GUN BINKS® MAINTENANCE & FAULT-FINDING



Premium Flat Tip Selection Chart								
Part No.	Size	Fan Width	Part No.	Size	Fan Width	Part No.	Size	Fan Width
114-00702	.007"	1"-2"	114-01506	.015"	4"-6"	114-02110	.021"	8"-10"
114-00704	.007"	2"-4"	114-01508	.015**	6"-8"	114-02112	.021"	10"-12"
114-00706	.007"	4"-6"	114-01510	.015**	8"-10"	114-02114	.021"	12"-14"
114-00708	.007"	6"-8"	114-01512	.015**	10"-12"	114-02116	.021"	14"-16"
			114-01514	.015**	12"-14"	114-02118	.021"	16"-18"
114-00902	.009"	1"-2"	114-01516	.015"	14"-16"			
114-00906	.009**	4"-6"	114-01518	.015"	16"-18"			
114-00908	.009**	6"-8"						
114-00910	.009**	8"-10"						
114-00912	.009**	10"-12"						
114-01104	.011"	2"-4"	114-01712	.017"	10"-12"			
114-01106	.011**	4"-6"	114-01714	.017"	12"-14"			
114-01108	.011**	6"-8"	114-01716	.017"	14"-16"			
114-01110	.011**	8"-10"	114-01718	.017"	16"-18"			
114-01112	.011**	10"-12"						
114-01114	.011**	12"-14"						
114-01304	.013"	2"-4"	114-01906	.019"	4"-6"			
114-01306	.013**	4"-6"	114-01908	.019"	6"-8"			
114-01308	.013**	6"-8"	114-01910	.019"	8"-10"			
114-01310	.013**	8"-10"	114-01912	.019"	10"-12"			
114-01312	.013**	10"-12"	114-01914	.019"	12"-14"			
114-01314	.013"	12"-14"	114-01916	.019"	14"-16"			
114-01316	.013"	14"-16"	114-01918	.019"	16"-18"			

*Standard stock item
All others available on request



Hints and Tips – 10 steps to successfully cleaning a Carbide Fluid Tip

- 1) Clean it before the fluid and contamination in it dries and hardens. Immediately after the blockage occurs attend to it or, at the very least, immerse the blocked tip in some of the coatings solvent to keep it soft until you can attend to it.
- 2) Wearing suitable gloves, rinse the tip in solvent to remove the bulk of the paint so you can see what you're doing.
- 3) Use a sewing needle size pin to probe for and remove any large contamination from the fluid inlet side of the carbide tip. Never force the pin through the carbide orifice or damage may be caused.
- 4) Rinse the tip in solvent again so you can still see what you're doing.
- 5) Use a fine broach needle to probe into and clear any smaller contamination from the Vee groove and fluid outlet side of the carbide tip. Carefully and gently probe into the carbide orifice to clear any obstruction. Do not ream or repeatedly 'file' the inside of the orifice with the broach or damage may be caused. Make sure the fine end of the broach does not bend, break off and become wedged in the orifice.
- 6) Rinse the tip in solvent yet again so you can still continue to see what you're doing.
- 7) Being careful where you direct the jet and mindful of the danger of compressed air injection, use low pressure (2 bar or less) air duster, blow through the carbide tip orifice from its outlet side to force any remaining contamination out of the recess in the tip.
- 8) Hold the tip up and look for the tiny pin-prick of light that will indicate that the carbide tip is clear. If you're unsure or it's still blocked then carry out the procedure again.
- 9) Rinse off one last time before...
- 10) refitting to the gun or storing somewhere safe for use next time.

Condition	Cause	Correction
C Fluid leaking from the back of seal cartridge assembly	Worn seal or needle shaft	Replace Needle packing cartridge
B Fluid leaking from the front of the gun	Needle ball worn or damaged	Replace needle packing cartridge
	Worn seat assembly	Replace fluid seat
A Gun will not trigger off	Excessive pump pressure above gun specification	Reduce pump pressure
	Return spring in needle packing cartridge damaged or broken	Replace needle packing cartridge
D Fluid in air passageways	Fluid tip seal leaking	Tighten retaining ring Replace carbide tip assembly
	Leaking around fluid seat	Tighten or replace fluid seat Replace O-ring
A Slow fluid shut-off	Fluid build-up on cartridge assembly	Clean or replace cartridge assembly
B Air leak from air cap when gun is not triggered	Air valve seal damaged or contaminated	Replace air valve assembly or remove and thoroughly clean
A No fluid output when triggered	Tip orifice plugged	Turn off fluid supply. Relieve pressure, engage trigger safety. Remove tip guard assembly and air cap and the carbide tip. Clean or replace carbide tip assembly
	Collet on needle has slipped	Turn off fluid supply. Relieve pressure, engage trigger safety. Remove trigger. Remove needle packing cartridge. Loosen collet and move until the needle is flush with the rear of the collet. Tighten collet and replace trigger.
	Gun mounted fluid filter or fluid hose plugged	Turn off fluid supply. Relieve pressure. Turn off air supply to pump and relieve fluid pressure with by-pass valve. Engage trigger safety. Very slowly loosen the hose connection at the pump end to relieve any pressure in hose. Remove hose, clear obstruction or clean/replace filter mesh
B Paint build-up on Air Cap	Damaged air cap holes	Replace with new Air cap
	Gradual build-up of bounce-back on gun head	Thoroughly clean & reduce air cap pressure if possible
	Airflow in Booth inadequate in certain areas	Consult Spray Booth supplier
	Distance between gun and object too close	Increase gun to target distance

Condition	Cause	Correction
A Fluttering or Stuttering spray pattern	Air in paint supply line	Check and tighten pump siphon hose connections
A Striping or 'fingers' inside spray fan	Insufficient fluid to fill fan	Increase pump supply pressure or reduce viscosity of coating being sprayed
	Uneven distribution of fluid in fan	Increase Air pressure to spray gun air cap
	Worn tungsten carbide tip	Replace tip
A Irregular or misshapen spray pattern	Fluid build-up on carbide tip or tip partially blocked.	Clean carbide tip
	Air holes on air cap partially blocked or plugged.	Clean air cap holes
A Spray pattern size pulses in time with the pump cycling	Fluid pressure inconsistent	Pump malfunctioning – check air motor functioning correctly
	Air supply to pump is restricted	Increase inside diameter of air supply hose to pump
	Fluid supply hose has excessive pressure loss	Supply pump regulator with clean air at main supply pressure (do not pass through air regulator)
	Pump is too small fluid output to supply fluid flow being used	Reduce fluid hose length between gun and pump or increase fluid hose inside diameter Increase pump to larger fluid output version
A Tails at top and bottom of spray fan	Insufficient fluid flow to carbide tip	Increase pump pressure Reduce viscosity of coating material being sprayed
	Excessive horn air at air cap	Increase air to gun to merge tails into main spray pattern Reduce air to gun or use fan control to reduce air to horns
A Spray fan distorted into 'hour glass' or 'figure of 8' shape	Fluid is exiting carbide tip faster than pump is replacing it	Reduce tip orifice size Increase fluid hose diameter
B Repeated and frequent plugging of carbide fluid tip	Pigment of sprayed coating plugging rear of tip	Check fluid hose and fluid filters for contamination and blockage.
	Coating material contaminated	Increase carbide tip orifice size Increase pump pressure to 'self clean' carbide orifice
	Sprayed material unsuitable for use with carbide tip spray equipment	Check filters are fitted to gun & pump Check filter mesh is not misshapen or split allowing contamination to by-pass filtration
		Check with equipment manufacturer and/or coating supplier.

