








Faulty spray patterns and how to correct them

Defect	Possible Cause	Corrective Action
<p>Spray pattern is not large enough</p> 	<p>Air drillings and air passages are clogged and or air pressure too high. Material flow exceeds air cap's capacity. Spreader adjustment valve set too low. Material too thick.</p>	<p>Clean the air cap with cleaning solution using a suitable cleaning brush, adjust air valve to recommended air pressure. Thin or lower fluid flow. Thin to proper consistency.</p>
<p>S-shaped spray fan</p> 	<p>Horn air drillings are clogged.</p>	<p>Thoroughly clean the air cap with suitable cleaning utensils; replace the nozzle set if necessary.</p>
<p>Half-moon shaped spray fan</p> 	<p>Horn drillings are contaminated on one side or front drillings are clogged.</p>	<p>Clean the air cap with cleaning solution using a suitable cleaning brush; afterwards blow dry thoroughly.</p>
<p>Lopsided spray fan</p> 	<p>Fluid tip (fluid tip pin) and/or air cap damaged.</p>	<p>Make sure that fluid tip and air cap are undamaged; replace nozzle set, if required.</p>
<p>Splitting spray fan</p>		

	<p>Fluid adjusting knob turned in too far. The atomisation pressure is too high. The material viscosity is too low. Pressure feed only.</p>	<p>Adjust the inlet pressure in line with the requirements of the paint material being used. Back out counter clockwise to achieve proper flow. Properly adjust viscosity; use smaller nozzle size, if necessary. Increase fluid pressure (increased gun handling speed).</p>
<p>Top heavy, bottom heavy, right heavy and left heavy patterns Generally horns plugged, fluid tip obstructed or cap/tip dirty.</p>	<p>Determine if the obstruction is on the air cap or the fluid tip. Do this by making a solid test spray pattern. Then rotate the cap on-half turn and spray another pattern. If the defect is inverted, obstruction is on the air cap. Clean the air cap.</p>	<p>If the defect is not inverted, it is on the fluid tip. Check for a fine burr on the edge of the fluid tip. Remove with wet or dry sand paper. Check for dried paint just inside the opening. Remove paint by washing with solvent.</p>

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