## Gravity Spray Gun Maintenance & Fault Finding

### Condition

<table>
<thead>
<tr>
<th>A</th>
<th>Will not spray</th>
</tr>
</thead>
</table>
| Cause | No air pressure at gun  
Pressure feed air cap used with Gravity feed  
Fluid too heavy for Gravity feed |
| Correction | Check air supply and air lines  
Change to correct gravity feed air cap  
Thin material or change to pressure feed |

<table>
<thead>
<tr>
<th>B</th>
<th>Gun 'spits' paint when triggering on and off</th>
</tr>
</thead>
</table>
| Cause | Incorrect needle fitted to gun  
Excessive needle wear  
Excessive fluid nozzle wear |
| Correction | Check nozzle/needle selection chart and fit correct item  
Replace with new needle  
Replace with new fluid nozzle |

<table>
<thead>
<tr>
<th>C</th>
<th>Small air leak from air cap when gun is not triggered</th>
</tr>
</thead>
</table>
| Cause | Main Air Valve contaminated and not correctly seating  
Main Air Valve Seal damaged or missing |
| Correction | Remove and clean fluid needle pack  
Check fluid tip is tight  
Check nozzle/needle selection chart and fit correct item  
Clean or Replace |

<table>
<thead>
<tr>
<th>D</th>
<th>Spray Fan inconsistent &amp; erratic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cause</td>
<td>Air in fluid stream</td>
</tr>
</tbody>
</table>
| Correction | Check fluid tip is tight  
Condition of needle packing and tightness of all threaded joints in fluid supply system |

### Maintenance & Fault Finding

- **A** Air valve will not operate (air valve stem will not fully slide into valve body) when trigger is pulled
  - **Cause**: Contamination on air valve stem
  - **Correction**: Remove air valve and replace damaged air valve stem

- **B** Stir trigger action
  - **Cause**: Air valve stem bent
  - **Correction**: Replace damaged component

- **C** Excessive fluid nozzle wear
  - **Cause**: Internal seal damaged or broken
  - **Correction**: Replace or tighten

- **D** Spread valve excessively loose and rotates easily
  - **Cause**: Air separator seal missing or damaged
  - **Correction**: Replace

- **E** Air leak from fluid needle seat point in top of handle
  - **Cause**: Seal damaged or missing
  - **Correction**: Replace

- **F** Air leak from fluid needle exit when trigger is pulled
  - **Cause**: Fluid needle exit damaged or worn
  - **Correction**: Replace

- **G** Fluid needle internal seal damaged or worn
  - **Cause**: Air separator seal missing or damaged
  - **Correction**: Replace

- **H** Fluid nozzle/needle leakage
  - **Cause**: Fluid nozzle not fitted correctly in gun head  
Fluid nozzle/needle leakage |
| Correction | Replace or tighten

### Lubrication Points

- **A** Fluid nozzle internal seal damaged or broken
  - **Correction**: Clean or replace

- **B** Fluid nozzle external profile damaged or worn
  - **Correction**: Swab or tighten

- **C** Contamination on fluid needle or seat
  - **Correction**: Swab or tighten

- **D** Fluid nozzle/needle packing or needle seat
  - **Correction**: Swab or tighten

- **E** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **F** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **G** Fluid needle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **H** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **I** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **J** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **K** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **L** Fluid needle external profile damaged or worn
  - **Correction**: Swab or tighten

- **M** Fluid needle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **N** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **O** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **P** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **Q** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **R** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **S** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **T** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **U** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **V** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **W** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **X** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **Y** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

- **Z** Fluid nozzle internal seat damaged or worn
  - **Correction**: Swab or tighten

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**May 2016**