ATD-6903
1.0MM TOUCH UP GUN W/CUP
INSTRUCTION MANUAL

Read this Instruction Manual carefully and understand it completely. Always follow safety precautions to prevent personal injury and/or damage to the equipment. Illustrations and photos are intended for reference only. Actual product may vary. Specifications are subject to change without notice. Retain this manual for future reference.

◆ Description
High volume low pressure technology applies paint with less force, meaning less "bounce" of the surface into the air, Stainless steel needle and nozzle to accommodate a variety of coatings, The spray gun Capable of very large fan pattern.

◆ Technical Data
Type of Feed.................................Gravity
Air inlet ...........................................1/4”
Diameter of Nozzle.........................1.0mm
Recommended air pressure..............29 – 50psi
Paint Capacity...............................125cc Stainless Steel Cup
Avg. Air Consumption.....................3.2-5.6 cfm
Pattern width...............................110-150mm
**Important Safety Instructions**

1. Always wear eye protection, gloves and respirator to prevent the toxic vapor hazard, solvent and paint coming into contact your eyes or skin. (fig 1)
2. Never use oxygen or any other combustible or bottle gas as a propellant. Explosion and serious injury or death may result. (fig 2)
3. Many paints and solvents can be highly flammable. Please use the spray gun only in a well-ventilated area, and avoid any ignition sources, such as smoking, or open flames. (fig 3)
4. Always disconnect the paint gun from air supply when not in use and during maintenance. For emergency stopping and to prevent unintended operation, a valve near the gun is recommended.
5. Use clean, dry and regulate compressed air rated at 29 – 50psi (2.0-3.5bar), never exceed maximum permissive operating pressure 120psi (8.3bar) (fig 4)
6. Never use homogenate hydrocarbon solvent, as it can chemically react with aluminum and zinc parts of this tool.
7. Never point gun at yourself and others at any time.
8. Before operating the tool, make sure all the screws & caps are securely tightened in case of leaking. Be sure trigger moves freely.
9. Never modify this tool for any other applications. Only use parts and accessories recommended by manufactures.

**Instructions For Operation**

**Preparation**

1. After unpacking the product, inspect carefully for any damage that may have occurred during transit.
2. Make sure to tighten fittings, bolts, etc., before putting unit into service.
3. Filter material through filter, cheese cloth or a paint strainer.
4. Fill the canister about ¾ full and start the air compressor.
5. After connecting the gun to the air supply, please make sure that the fluid cap, paint cup and air hose have been connected tightly.

**NOTE:** *DO NOT EXCEED Maximum Pressure of Spray Gun or any other parts in the compressor system*

6. Set up a piece of cardboard or other scrap material to use as a target and adjust for best spray pattern.
7. Test the consistency of the material by making a few strokes on a cardboard target.

**WARNING** *Never aim or spray at yourself or anybody else as it could cause serious injury.*
Adjustment
Fine-tune the gun to your desired working setting of spray pattern, fluid output and degree of paint atomization, using the 3 controls illustrated as below.

Operation
1. Keep the nozzle about 6 to 12 inches from the work surface.
2. Grip the gun keeping it perpendicular with spraying area then move it parallel several times. Stopping gun movement in mid-stroke will cause a buildup of paint and result in runs.
3. Do not fan the gun from side to side while painting. This will cause a build-up of paint in the center of the stroke and an insufficient coating at each end.
4. Trigger the gun properly. start the gun movement BEFORE SQUEEZING THE TRIGGER and release the trigger BEFORE STOPPING GUN MOVEMENT.

**NOTE:** Two thin coats of paint will yield better results and have less chance of runs than one heavy layer.
5. Use a piece of cardboard as a shield to catch overspray at the edges of the work to protect other surfaces.
**Maintenance**

Incomplete cleaning could cause function failures and a degradation of the fan form.

1. Remove the rest of the paint by pouring it into another container.
2. Disassemble the spray gun making sure to remove the needle before disassembling the nozzle to avoid damage to the housing of the nozzle closure.
3. Clean all the paint passages and the nozzle.
4. Reassemble the spray gun and spray a small quantity of solvent to eliminate all the residues in the paint passages.
Storing

- When not using spray gun, turn the fluid adjustment knob counter-clockwise to open which will reduce spring tension on needle fluid tip.
- Spray gun MUST BE well cleaned and lightly lubricated.

WARNING:
NEVER USE METAL OR OTHER OBJECTS THAT COULD DAMAGE THE HOLES IN THE NOZZLE AND CAP.
NEVER IMMERSE THE SPRAY GUN COMPLETELY IN SOLVENT. NEVER USE COMPONENTS OR PARTS THAT ARE NOT MANUFACTURER ORIGINALS.

◆ Trouble shooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>1. Material level tool low.</th>
<th>2. Container tipped too far.</th>
<th>3. Loose fluid inlet connection.</th>
<th>4. Loose or damaged fluid tip/seat.</th>
<th>5. Dry or loose fluid needle packing nut.</th>
<th>6. Air vent clogged</th>
<th>1. Add material into container.</th>
<th>2. Hold more upright.</th>
<th>3. Tighten.</th>
<th>4. Adjust or replace.</th>
<th>5. Lubricate and or tighten.</th>
<th>6. Clear vent hole.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluttering or Spitting</td>
<td></td>
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<tr>
<td>Arced Pattern.</td>
<td>1. Worn or loose Fluid nozzle.</td>
<td>2. Material buildup on Air cap.</td>
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<tr>
<td>Pattern is not Evenly spread.</td>
<td>1. Material buildup on Air cap.</td>
<td>2. Fluid nozzle dirty or worn.</td>
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<tr>
<td>The center of Pattern is too narrow.</td>
<td>1. Material too thin or not enough.</td>
<td>2. Atomization air pressure too high.</td>
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<tr>
<td>Small Pattern width of fan.</td>
<td>1. Material too thick.</td>
<td>2. Atomization air pressure too low.</td>
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</tr>
</tbody>
</table>
| Fluid leaking from packing nut | 1. Packing nut loose  
2. Packing worn or dry | 1. Tighten, but do not restrict needle  
2. Replace or lubricate (non-silicone oil) |
|-------------------------------|------------------------|------------------------------------------|
| Excessive overspray           | 1. Too high atomization pressure  
2. Too far from work surface  
3. Improper stroking (arcing, gun motion too fast) | 1. Reduce pressure  
2. Adjust to proper distance  
3. Move at moderate pace, parallel to surface. |
| Will not spray                | 1. No pressure at gun  
2. Fluid control not open enough  
3. Fluid too heavy | 1. Check air lines  
2. Open fluid control  
3. Thin fluid or change to pressure feed system. |
## ATD-6903

**1.0mm Gun**

### Diagram

![ATD-6903 Diagram](image)

### Parts List

<table>
<thead>
<tr>
<th>ITEM#</th>
<th>ORDERING PART#</th>
<th>PART DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PRT6900-16</td>
<td>AIR ADJUST ASSY</td>
</tr>
<tr>
<td>2</td>
<td>PRT6900-17</td>
<td>AIR VALVE ASSEMBLY</td>
</tr>
<tr>
<td>3</td>
<td>PRT6900-1.0</td>
<td>1.0mm TIP KIT (NEEDLE, FLUID NOZZLE, AIR CAP)</td>
</tr>
<tr>
<td>4</td>
<td>PRT6900-18</td>
<td>NEEDLE PACKING ASSEMBLY</td>
</tr>
<tr>
<td>5</td>
<td>PRT6900-19</td>
<td>TRIGGER ASSEMBLY</td>
</tr>
<tr>
<td>6</td>
<td>PRT6900-20</td>
<td>LID FOR CUP</td>
</tr>
<tr>
<td>7</td>
<td>PRT6900-21</td>
<td>CUP</td>
</tr>
<tr>
<td>8</td>
<td>PRT6900-10</td>
<td>FILTER (PACK OF 10)</td>
</tr>
<tr>
<td>9</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>PRT6900-22</td>
<td>FLUID INLET JOINT</td>
</tr>
<tr>
<td>11</td>
<td>PRT6900-23</td>
<td>FLUID ADJUST ASSY</td>
</tr>
<tr>
<td>12</td>
<td>PRT6900-24</td>
<td>PATTERN ADJUST ASSY</td>
</tr>
<tr>
<td>13</td>
<td>PRT6900-25</td>
<td>GUN BODY</td>
</tr>
<tr>
<td>14</td>
<td>PRT6900-26</td>
<td>AIR INLET FITTING</td>
</tr>
<tr>
<td>N/A</td>
<td>PRT6900-RK1.0</td>
<td>REPAIR KIT (ALL SEALS AND SPRINGS)</td>
</tr>
</tbody>
</table>