Technical Data/Specifications:

① Max working pressure: 3.5bar
② Temperature range: 5 ~ 40℃

<table>
<thead>
<tr>
<th>Item No.</th>
<th>Dia of Nozzle</th>
<th>Type of Feed</th>
<th>Air Pressure</th>
<th>Air Consumption</th>
<th>Pattern Width</th>
<th>Paint Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATD-6812</td>
<td>1.5mm</td>
<td>Suction</td>
<td>2-3.5bar</td>
<td>4.2-6.4cfm</td>
<td>180mm</td>
<td>200cc</td>
</tr>
</tbody>
</table>

Safety Definitions
This manual contains information that is important for you to know and understand. The cautions and warnings should always be strictly followed to protect against damage to the equipment and personal injury to the operators or other people working in the work area. In this manual, NOTES FOR SAFE OPERATIONS are classified as “WARNING” or “CAUTION”.

WARNING
Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury to personnel.

CAUTION
Indicates a potentially hazardous situation, which, if not avoided may result in minor or moderate injury to personnel or damage to equipment. It may also be used to alert against unsafe practices.
Important Safety Instructions

1. For toxic vapors produced by spraying certain materials can create intoxication and serious damage to your health. Always wear protective eyewear, gloves and respirator to prevent the toxic vapor hazard and to prevent solvent and paint from coming into contact with your eyes or skin. (See fig 1)

2. Never use oxygen or any other combustible bottle gas as a power source as it could cause explosion and serious personal injury. (See fig 2)

3. Fluid and solvent can be highly flammable or combustible. Use in well-ventilated spray booth and avoid any ignition sources, such as smoking, open flames, etc. (See fig 3)

4. Disconnect tool from air supply hose before performing maintenance and during non-operation. For emergency stop and for the prevention of unintended operation, a ball valve near the gun to air supply is recommended.

5. Use clean, dry and regulated compressed air rated at 3~6bar, never exceed maximum permissive operating pressure 7 bar. (See fig 4)

6. Never use homogenate hydrocarbon solvent, which can chemically react with aluminum and zinc parts and chemically compatible with aluminum and zinc parts.

7. Never point gun at you or others at any time.

8. Never modify this tool for any application. Use only parts and accessories recommended by the manufacturer.

Installation

1. Connect air hose to air nipple tightly.

2. Flush the gun fluid passage with a compatible solvent.

3. Pour paint into container, test spray and adjust fluid output as well as pattern width.

Using the Tool

CAUTION: Use the paint manufactures recommended viscosity filter to filter paint into your paint gun before use.

The proper handling of the gun will let you get desired paint coating. See spraying technique and helpful hints on the next page.
Spraying Technique

When spraying, hold the gun perpendicular to the spraying area then move it parallel several times. Start spraying before the gun reaches the material being painted, and keep spraying after the gun leaves the material being painted. Keep the appropriate distance of 6”-10” between gun and surface area according to the atomization pressure and spraying conditions. (See Figures 5 & 6.)

To obtain the best results, always keep your spray gun level and spray equally from side to side or up and down 6”-12” (25-30cm) from the surface. Avoid spraying at an angle as this leads to runs on the surface.

Let your arm control the left to right movement rather than your wrist as this will aid paint distribution over the whole area.

Do not tip the sprayer to more than a 45° angle.

Helpful Hints

Evenly control the speed of movement of the spray gun. A fast speed will give a thin coat and a slow speed will give a heavy coat.

Apply one coat at a time. If another coat is required follow the manufacturer’s instructions for drying time.

If spraying small areas or objects keep the output setting low as this will avoid excessive use of paint and will minimize overspray.
**Adjustment**

The desired pattern, volume of fluid output and fine atomization can easily be obtained by regulating the Pattern Adjusting Knob, Fluid Adjusting Knob and Air Adjusting Knob.

- Turn Pattern Adjusting Knob right ➔ pattern is round
- Turn Pattern Adjusting Knob left ➔ pattern is fan
- Turn Fluid Adjusting Knob right ➔ decrease fluid output
- Turn Fluid Adjusting Knob left ➔ increase fluid output
- Turn Air Adjusting Knob right ➔ decrease air volume
- Turn Air Adjusting Knob left ➔ increase air volume

**Maintenance**

Pour remaining paint into another container before cleaning. Spray a small amount of thinner through the gun to clean passages. Incomplete cleaning will cause adverse patterns and operation.

Clean other sections with brush soaked with thinner and soft cloths.

Clean paint passages fully before disassembly.

Remove fluid nozzle after removing fluid needle set or while keeping fluid needle pulled, in order to protect seat section.

**CAUTION**: Never use wire or other hard tool to clean nozzle, fluid needle, as this will cause damage. Never immerse the whole gun into solvent such as thinner will damage the air cap, fluid nozzle, fluid needle.
# Troubleshooting

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Problem</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLUTTERING OR SPITTING</td>
<td>Dry or worn needle packing seat permitting air to seep into fluid passage. Paint cup or joint cap leaking. Packing fluid needle too loose.</td>
<td>Tighten, lubricate or change needle packing. Tighten or repair them. Tighten or repair them.</td>
</tr>
<tr>
<td>PATTERN IS ARCED</td>
<td>Dust or other foreign matter on air cap horn holes. Uneven volume of fluid from air cap horn holes.</td>
<td>Remove obstructions from air cap horn holes. Remove obstructions from air cap horn holes.</td>
</tr>
<tr>
<td>PATTERN IS NOT EVENLY SPREAD</td>
<td>Material build up on the outside of fluid nozzle tip or center hole or the nozzle orifice is partially clogged. Loose fluid nozzle.</td>
<td>Remove obstruction or clean gun. Never use a wire or other hard implement for cleaning. Tighten fluid nozzle.</td>
</tr>
<tr>
<td>CENTER OF PATTERN TOO NARROW</td>
<td>Atomization too high or air pressure too high. Material (paint) too thin.</td>
<td>Reduce air pressure. Regulate material viscosity.</td>
</tr>
<tr>
<td>PATTERN WIDTH NOT SHARP</td>
<td>Too low and atomization or air pressure. Material (paint) too thick.</td>
<td>Increase air pressure. Regulate material viscosity.</td>
</tr>
<tr>
<td>NO PAINT OUTPUT OR SPUTTERS ONLY A FEW DROPS RANDOMLY</td>
<td>Fluid passage clogged or dirty or air passages in gun are blocked up. Fluid needle stroke too small. Fluid needle stroke too small.</td>
<td>Remove obstructions or clean gun. Adjust fluid needle stroke. Adjust fluid needle stroke.</td>
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</tbody>
</table>
ITEM# | ORDERING PART# | PART DESCRIPTION
--- | --- | ---
1 | PRT8812-01 | LID ASSY
2 | PRT8812-02 | GUN BODY
3 | PRT8812-03 | PAINT CUP ONLY
4 | PRT8812-04-06 | FLUID NEEDLE ASSY
5 | PRT8812-04-08 | FLUID NEEDLE ASSY
6 | PRT8812-04-08 | FLUID NEEDLE ASSY
7 | PRT8812-07-11 | AIR VALVE ASSY
8 | PRT8812-07-11 | AIR VALVE ASSY
9 | PRT8812-07-11 | AIR VALVE ASSY
10 | PRT8812-07-11 | AIR VALVE ASSY
11 | PRT8812-07-11 | AIR VALVE ASSY
12 | PRT8812-12-13 | TRIGGER ASSY
13 | PRT8812-12-13 | TRIGGER ASSY
14 | PRT8812-14 | PATTERN ADJUSTMENT ASSY
15 | PRT8812-15 | FLUID NOZZLE
16 | PRT8812-16 | AIR CAP ASSY
17 | PRT8812-17 | SEAL
18 | PRT8812-18 | DIRECTIONAL SCREW
19 | PRT8812-19 | GUN TO CUP ADAPTER
20 | PRT8812-20 | CUP LID GASKET