



# ATD-6810

## SPRAY GUN W/CUP

### INSTRUCTION MANUAL

*Read this Instruction Manual carefully and understand it completely, basic precaution should be strictly followed to prevent the damage to the tool and injury to the operator. Retain this manual for further reference. And you should pay more attention to the Technical Data.*



## Description

A High pressure spray gun is ideal for refinishing a classic car or a wide variety of home improvement projects. This high pressure paint sprayer features air, fluid and fan controls to offer a wide variety of patterns. It is supplied with a 1000 cc suction feed aluminum cup.

## Technical Data

Type of Feed: Suction

Air Inlet: 1/4"

Standard Diameter of Nozzle:  $\phi$ 2.0mm

Optional Diameter of Nozzle:  $\phi$ 1.5~2.5mm

Recommended air pressure: 3.0~ 4.0 bar (45-60psi)

Max. Pressure of air: 8.3 bar (120psi)

Paint Capacity: 1000cc

Avg. Air Consumption: 170-250l/min (6.0-8.8cfm)

Pattern Width: 180-230mm (7.1-9.1")

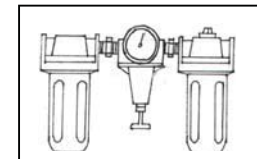
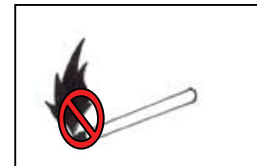
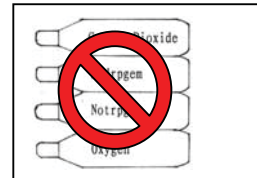
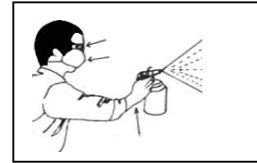
Weight: 1.1kgs (2.42lbs)

A-weighted sound pressure level: 77.1dB(A)

Sound power level: 88.1dB(A)

# Important Safety Instructions

1. For toxic vapors produced by spraying certain materials can create intoxication and serious damage to health. Always wear safety glasses, gloves and respirator to prevent the toxic vapor hazard, solvent and pointing paint coming into contact with your eyes or skin.
2. Never use oxygen, combustible or any other bottle gas as a power source or would cause explosion and serious personal injury.
3. Fluid and solvent can be highly flammable or combustible. Please Use the tool only in well-ventilated area, and avoid any ignition sources, such as smoking, open flames and decrial hazard.
4. Disconnect paint gun from air supply hose before doing tool maintenance and during non-operation, for emergency stop and prevention of unintended operation, a ball valve near the gun to air supply is recommend.
5. Use clean, dry and regulate compressed air rated at 3.0~4.0bar, never exceed maximum permissive operating pressure 8.3 bar(120psi).
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 yourself or others at any time.
8. Before operating the paint gun, ensure all the screws & caps are securely tightened to prevent leaking.
9. Before painting, make inspection for free movement of trigger and nozzle to insure tool can operate well.
10. Never modify this paint gun for any applications. Only use parts, nozzles and accessories recommended by the manufacturer.



## Instructions for Operation

### Preparation

1. After unpacking the paint gun, inspect carefully for any damage that may have occurred during transit. Make sure to tighten fittings, bolts, etc., before putting unit into service.
2. Thoroughly mix and thin paint in accordance with the paint manufacturer's instructions. Most materials will spray readily if thinned properly.
3. Strain material through filter, cheese cloth or a paint strainer.
4. Fill the canister about  $\frac{3}{4}$  full and start the air compressor.

**WARNING** Do not exceed Maximum Pressure of Spray Gun or any other parts in the compressor system.

5. After connecting the gun to the air supply, please make sure that the fluid cap, container and air hose have been connected tightly to the spray gun.
6. Set up a piece of cardboard or other scrap material to use as a target and adjust for best spray pattern.

**WARNING** Never aim or spray at yourself or anybody else as it could cause serious injury.

7. Test the consistency of the material by making a few strokes on a cardboard target. If material still appears too thick, add a small amount of thinner. **THIN WITH CARE!** Do not exceed paint manufacturer's thinning recommendations.

## Adjustment

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

**Adjusting pattern:** Turning the Pattern Adjusting Knob to the right until tight will make spray pattern round and turning it to the left will make spray pattern ellipse.

**Adjusting volume of fluid output:** Turning the Fluid (PAINT) Adjusting Knob clockwise will reduce the volume of fluid output and turning it counter-clockwise will increase fluid output.

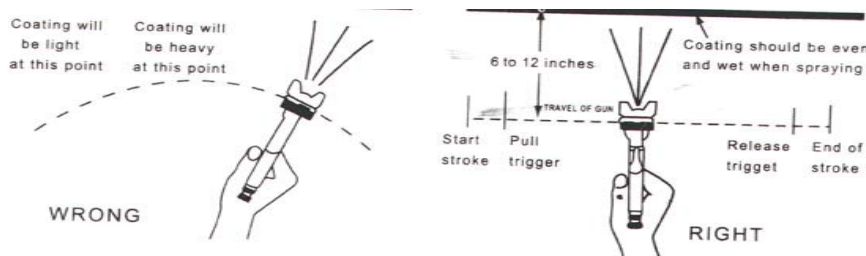
**Adjusting air volume:** Turning the Air Adjusting valve clockwise will reduce the air volume and turning it counter-clockwise will increase the air volume.

## Operation

1. Begin spraying. Always keep the gun at right angles to the work.
2. Keep the nozzle about 6 to 12 inches from the work surface. Grip the gun keeping it perpendicular with spraying area then move it parallel for several times. Stopping gun movement in mid-stroke will cause a buildup of paint and result in runs. Do not fan the gun from side to side while painting. This will cause a buildup of paint in the center of the stroke and an insufficient coating at each end.
3. Trigger the gun properly. Start the gun moving at the beginning of the stroke **BEFORE SQUEEZING THE TRIGGER** and release the trigger **BEFORE STOPPING GUN MOVEMENT** at the end of the stroke. This procedure will blend each stroke with the next without showing overlap or unevenness.
4. The amount of paint being applied can be varied by the speed of the stroke, distance from the surface and adjustment of the fluid control knob.
5. Overlap strokes just enough to obtain an even coat.

**NOTE:** Two thin coats of paint will yield better results and have less chance of runs than one heavy layer.

6. 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 any remaining 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. Clean the other components using a brush soaked in solvent.
4. Reassemble the spray gun and spray a small quantity of solvent to eliminate all the residues in the paint passages.

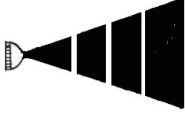


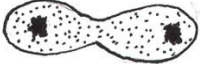

### **WARNING:**

**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.**

## Storing

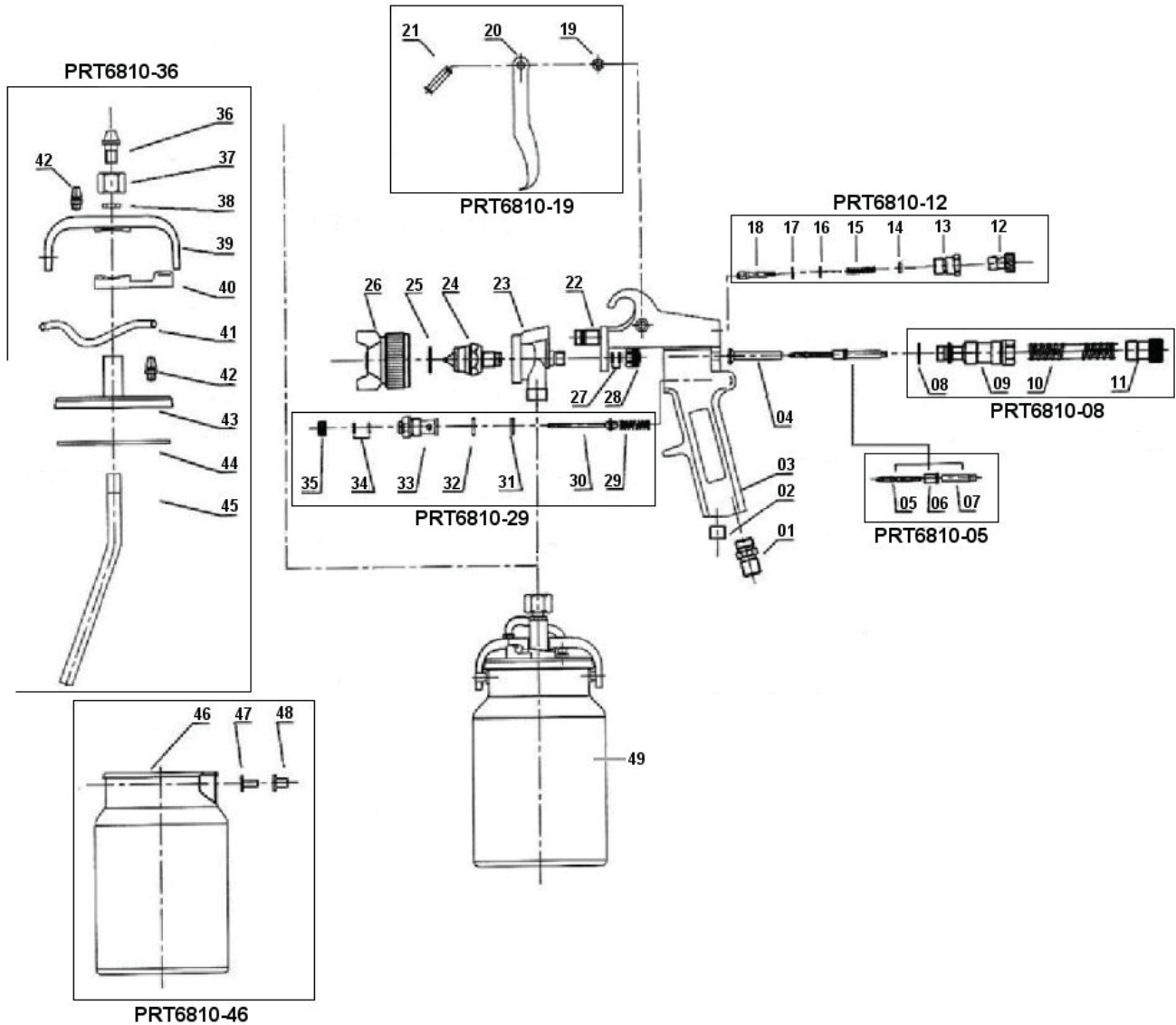
- When not using spray gun, turn the fluid adjustment knob counter-clockwise to open which will reduce spring tension on needle fluid tip.
- Spray gun **MUST BE** well cleaned and lightly lubricated.

## Troubleshooting

Symptom	Problems	Solution
<b>Fluttering or spitting</b> 	<ol style="list-style-type: none"> <li>1. Material level too low.</li> <li>2. Container tipped too far.</li> <li>3. Loose fluid inlet connection.</li> <li>4. Loose or damaged fluid tip/seat.</li> <li>5. Dry or loose fluid needle packing nut.</li> <li>6. Air vent clogged</li> </ol>	<ol style="list-style-type: none"> <li>1. Add material into container.</li> <li>2. Hold more upright.</li> <li>3. Tighten.</li> <li>4. Adjust or replace.</li> <li>5. Lubricate and or tighten.</li> <li>6. Clear vent hole.</li> </ol>
<b>Pattern is arched.</b> 	<ol style="list-style-type: none"> <li>1. Worn or loose Fluid nozzle.</li> <li>2. Material buildup on Air cap.</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten or replace Fluid nozzle.</li> <li>2. Remove obstructions from holes, but don't use metal objects to clean it.</li> </ol>
<b>Pattern is not evenly spread.</b> 	<ol style="list-style-type: none"> <li>1. Material buildup on Air cap.</li> <li>2. Fluid nozzle dirty or worn.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clean or replace Air cap.</li> <li>2. Clean or replace Fluid nozzle.</li> </ol>
<b>The center of pattern is too narrow.</b> 	<ol style="list-style-type: none"> <li>1. Material too thin.</li> <li>2. Atomization air pressure too high.</li> </ol>	<ol style="list-style-type: none"> <li>1. Regulate material viscosity.</li> <li>2. Reduce air pressure.</li> </ol>
<b>Pattern width of fan shape is too narrow</b> 	<ol style="list-style-type: none"> <li>1. Material too thick.</li> <li>2. Atomization air pressure too low.</li> </ol>	<ol style="list-style-type: none"> <li>1. Regulate material viscosity.</li> <li>2. Increase air pressure.</li> </ol>
<b>Air leaking from air cap without pulling trigger</b>	<ol style="list-style-type: none"> <li>1. Sticking air valve stem</li> <li>2. Contaminate on air valve or seat</li> <li>3. Worn or damaged air valve or seat</li> <li>4. Broken air valve spring</li> <li>5. Bent valve stem</li> </ol>	<ol style="list-style-type: none"> <li>1. Lubricate</li> <li>2. Clean</li> <li>3. Replace</li> <li>4. Replace</li> <li>5. Replace</li> </ol>
<b>Fluid leaking from packing nut</b>	<ol style="list-style-type: none"> <li>1. Packing nut loose</li> <li>2. Packing worn or dry</li> </ol>	<ol style="list-style-type: none"> <li>1. Tighten, but do not restrict needle</li> <li>2. Replace or lubricate (use non-silicone oil)</li> </ol>
<b>Excessive overspray</b>	<ol style="list-style-type: none"> <li>1. Too high atomization pressure</li> <li>2. Too far from work surface</li> <li>3. Improper stroking (arcing, gun motion too fast)</li> </ol>	<ol style="list-style-type: none"> <li>1. Reduce pressure</li> <li>2. Adjust to proper distance</li> <li>3. Move at moderate pace, parallel to surface.</li> </ol>
<b>Will not spray</b>	<ol style="list-style-type: none"> <li>1. No pressure at gun</li> <li>2. Fluid control not open enough</li> <li>3. Fluid too heavy</li> </ol>	<ol style="list-style-type: none"> <li>1. Check air lines</li> <li>2. Open fluid control</li> <li>3. Thin fluid or change to pressure feed system.</li> </ol>

# ATD®

## ATD-6810



ITEM#	ORDERING PART#	PART DESCRIPTION
01	PRT6810-01	AIR INLET PLUG
02	PRT6810-02	HEX BOLT
03	PRT6810-03	GUN BODY
04	PRT6810-04	DIRECTIONAL BODY
05-07	PRT6810-05	FLUID ADJ. NEEDLE ASSY
08-11	PRT6810-08	FLUID ADJUSTMENT ASSY
12-18	PRT6810-12	FAN ADJUSTMENT ASSY
19-21	PRT6810-19	TRIGGER ASSY
22	PRT6810-22	GUN BODY CONNECTOR
23	PRT6810-23	GUN HEAD BODY

ITEM#	ORDERING PART#	PART DESCRIPTION
24	PRT6810-24	FLUID NOZZLE
25	PRT6810-25	NOZZLE WASHER
26	PRT6810-26	AIR CAP
27	PRT6810-27	SEAL
28	PRT6810-28	DIRECTIONAL SCREW
29-35	PRT6810-29	AIR VALVE ASSY
36-45	PRT6810-36	CUP LID ASSY COMPLETE
44	PRT6810-44	CUP LID GASKET
46-48	PRT6810-46	CUP ONLY
49	PRT6810-49	CUP AND LID ASSY

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