



# ATD-6812

## TOUCH UP GUN & CUP ASSEMBLY

### Instruction Manual



#### Technical Data/Specifications:

- ① Max working pressure: 3.5 bar
- ② Temperature range: 5 ~ 40°C

Item No.	Dia of Nozzle	Type of Feed	Inlet Air Pressure	Air Consumption	Pattern Width	Paint Capacity
ATD-6812	1.5mm	Suction	2 - 3.5 bar	4.2 - 6.4 cfm	180mm	200cc

#### 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. 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 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. Paint 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 3-6 bar, never exceed maximum permissive operating pressure 7 bar. (See fig 4)
6. Never use petroleum based solvent, which can chemically react with aluminum and zinc parts in an adverse way.
7. Never point gun at yourself or at others at any time.
8. Never modify this tool for any application. Use only parts and accessories recommended by the manufacturer.

Fig 1



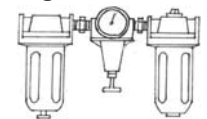
Fig 2



Fig 3



Fig 4



## 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 manufacturers' 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" from the surface. Avoid spraying at an angle as this leads to runs on the surface. (See figure 7)

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

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

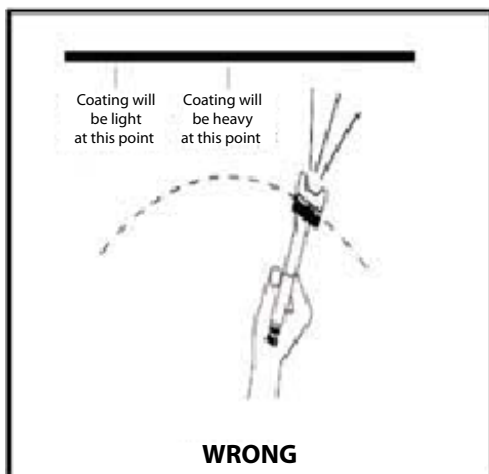


Fig 5

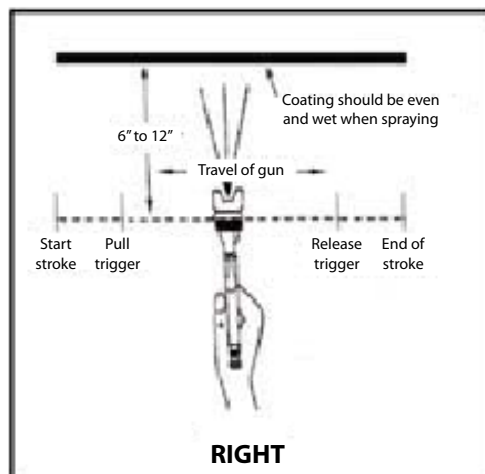
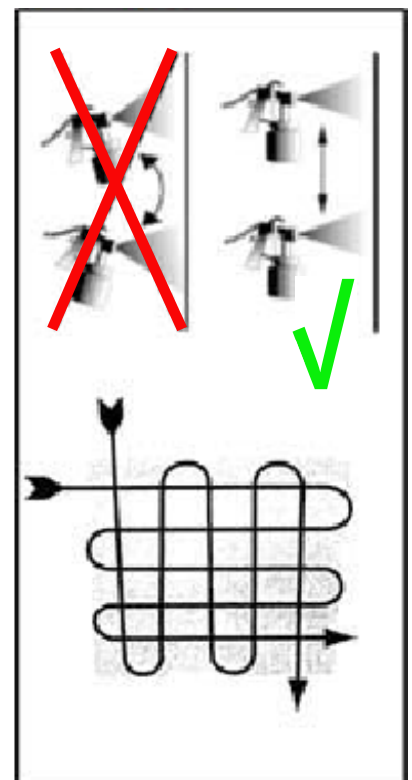


Fig 6



## 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 manufacturers' 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 a 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. Inadequate cleaning will cause adverse patterns and operation.

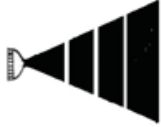
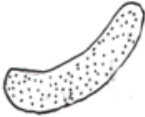
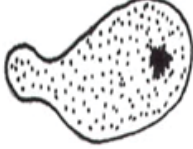
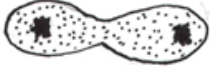


Clean other sections with a brush soaked with thinner and soft cloths.

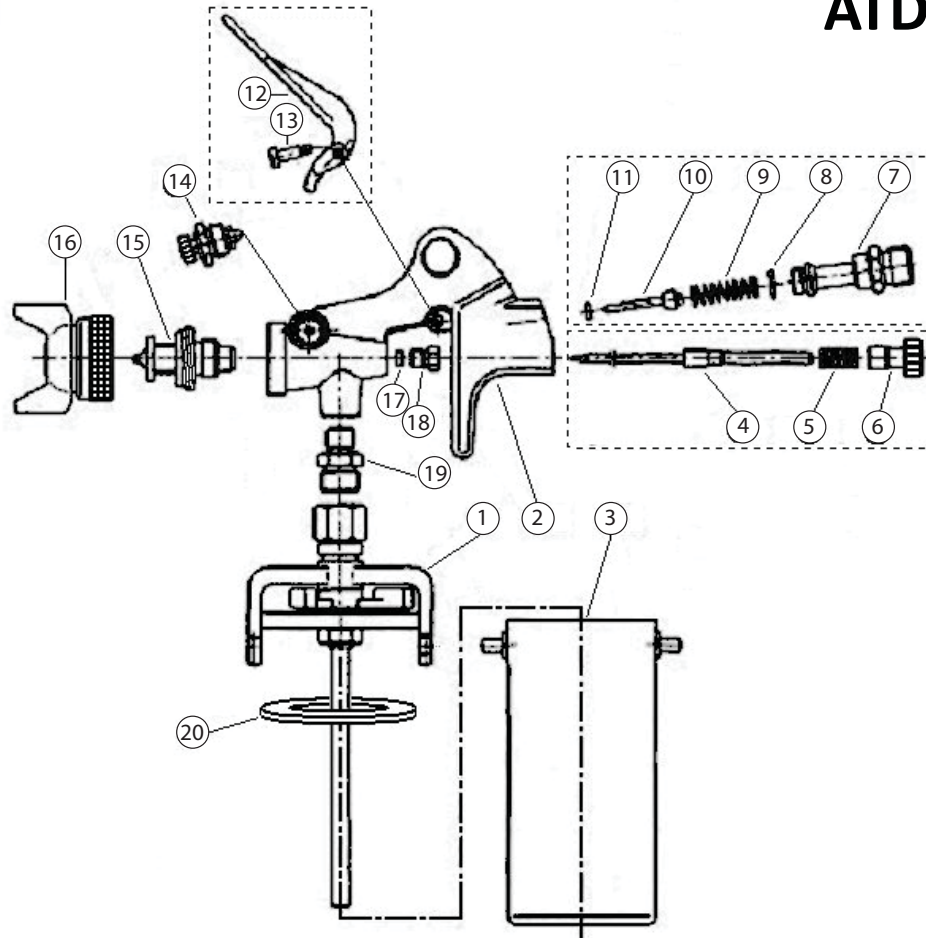
Clean paint passages fully before disassembly.

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

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

# Troubleshooting

SYMPTOM	PROBLEM	SOLUTION
<p data-bbox="305 321 548 342"><b>FLUTTERING OR SPITTING</b></p> 	<p data-bbox="667 359 943 432">Dry or worn needle packing seat permitting air to seep into fluid passage.</p> <p data-bbox="667 457 935 485">Paint cup or joint cap leaking.</p> <p data-bbox="667 510 938 537">Packing fluid needle too loose.</p>	<p data-bbox="1016 380 1268 432">Tighten, lubricate or change needle packing</p> <p data-bbox="1036 457 1247 485">Tighten or repair them.</p> <p data-bbox="1036 510 1247 537">Tighten or repair them.</p>
<p data-bbox="342 632 521 653"><b>PATTERN IS ARCED</b></p> 	<p data-bbox="667 674 943 726">Dust or other foreign matter on air cap holes</p> <p data-bbox="667 751 951 804">Uneven volume of fluid from air cap horn holes</p>	<p data-bbox="1016 674 1284 726">Remove obstructions from air cap horn holes</p> <p data-bbox="1016 751 1284 804">Remove obstructions from air cap horn holes</p>
<p data-bbox="269 915 578 936"><b>PATTERN IS NOT EVENLY SPREAD</b></p> 	<p data-bbox="667 957 935 1052">Material build up on the outside of fluid nozzle tip or center hole or the nozzle orifice is partially clogged</p> <p data-bbox="724 1077 886 1104">Loose fluid nozzle</p>	<p data-bbox="1016 957 1284 1031">Remove obstruction or clean gun. Never use a wire or other hard implement for cleaning.</p> <p data-bbox="1052 1077 1247 1104">Tighten fluid nozzle.</p>
<p data-bbox="261 1199 594 1220"><b>CENTER OF PATTERN TOO NARROW</b></p> 	<p data-bbox="683 1241 927 1293">Atomization too high or air pressure too high.</p> <p data-bbox="695 1318 919 1346">Material (paint) too thin.</p>	<p data-bbox="1052 1241 1247 1268">Reduce air pressure.</p> <p data-bbox="1024 1318 1268 1346">Regulate material viscosity.</p>
<p data-bbox="293 1482 561 1503"><b>PATTERN WIDTH NOT SHARP</b></p> 	<p data-bbox="675 1524 935 1577">Too low an atomization or air pressure.</p> <p data-bbox="695 1602 919 1629">Material (paint) too thick.</p>	<p data-bbox="1052 1524 1247 1551">Increase air pressure.</p> <p data-bbox="1024 1602 1268 1629">Regulate material viscosity.</p>
<p data-bbox="269 1776 578 1818"><b>NO PAINT OUTPUT OR SPITTERS ONLY A FEW DROPS RANDOMLY</b></p> 	<p data-bbox="667 1829 943 1902">Fluid passage clogged or dirty or air passages in gun are blocked up.</p> <p data-bbox="675 1927 935 1955">Fluid needle stroke too small.</p>	<p data-bbox="1036 1829 1260 1881">Remove obstructions or clean gun.</p> <p data-bbox="1027 1927 1268 1955">Adjust fluid needle stroke.</p>



ITEM#	ORDERING PART#	PART DESCRIPTION
1	PRT6812-01	LID ASSY
2	PRT6812-02	GUN BODY
3	PRT6812-03	PAINT CUP ONLY
4	PRT6812-04-06	FLUID NEEDLE ASSY
5	PRT6812-04-06	FLUID NEEDLE ASSY
6	PRT6812-04-06	FLUID NEEDLE ASSY
7	PRT6812-07-11	AIR VALVE ASSY
8	PRT6812-07-11	AIR VALVE ASSY
9	PRT6812-07-11	AIR VALVE ASSY
10	PRT6812-07-11	AIR VALVE ASSY
11	PRT6812-07-11	AIR VALVE ASSY
12	PRT6812-12-13	TRIGGER ASSY
13	PRT6812-12-13	TRIGGER ASSY
14	PRT6812-14	PATTERN ADJUSTMENT ASSY
15	PRT6812-15	FLUID NOZZLE
16	PRT6812-16	AIR CAP ASSY
17	PRT6812-17	SEAL
18	PRT6812-18	DIRECTIONAL SCREW
19	PRT6812-19	GUN TO CUP ADAPTER
20	PRT6812-20	CUP LID GASKET