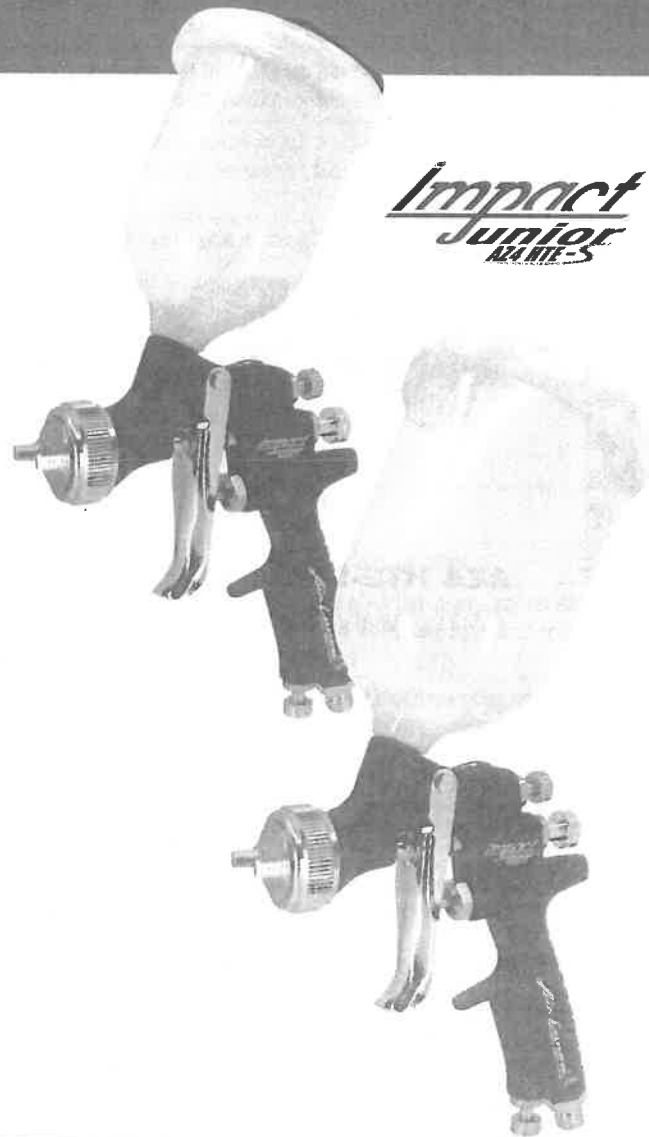
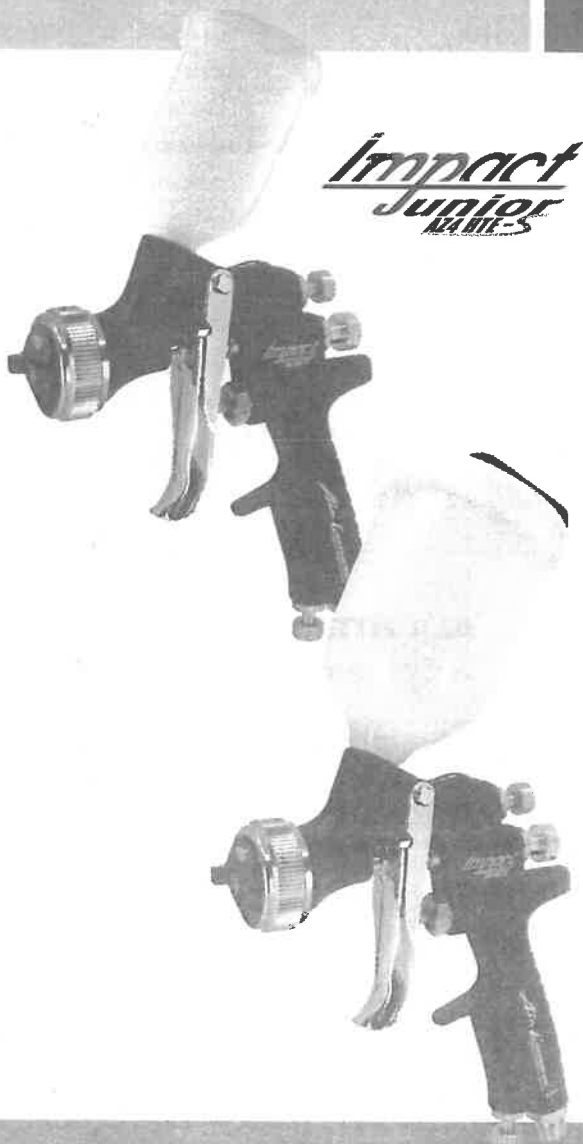


USE and MAINTENANCE INSTRUCTION MANUAL

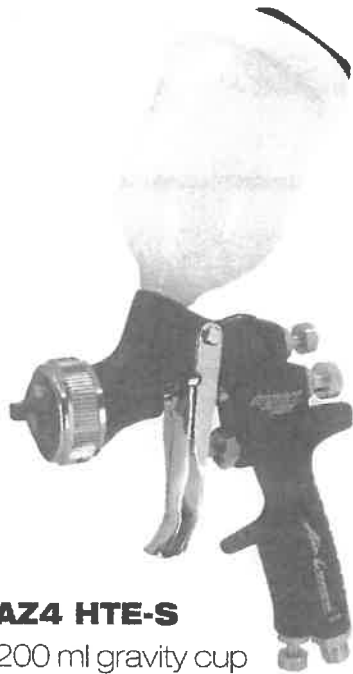
**AZ4 HTE-S**  
*Impact*  
Junior

GRAVITY  
SPRAY GUN



SMART & SPOT REPAIRS

with Black Air Cap



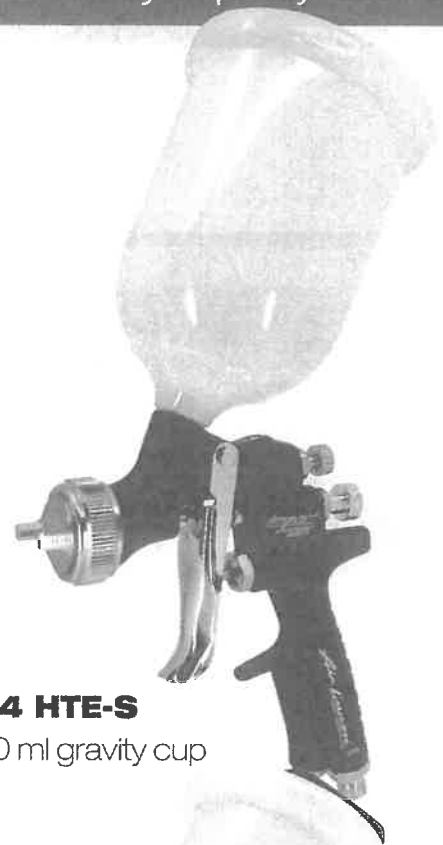
**AZ4 HTE-S**  
200 ml gravity cup



**AZ4 HTE-S**  
70 ml gravity cup

GENERAL INDUSTRY

with Anodized Gray Air Cap



**AZ4 HTE-S**  
600 ml gravity cup



**AZ4 HTE-S**  
200 ml gravity cup

**COMPLIANCE with STANDARDS**

<b>CE</b>	<b>Ex</b>	<b>II</b>	<b>2</b>	<b>G</b>	<b>Ex h</b>	<b>IIB</b>	<b>T6</b>	<b>Gb</b>	<b>X</b>	<b>T<sub>Amb</sub></b> +5°C +40°C
Complies with European Directive	Specific Marking for Explosion Protection	Group II (Surface)	Category (zone 1 and 2)	Type of Atmosphere (GAS)	Ignition Protection (not applied)	Explosion Group (Ethylene)	Temperature Class (≤ 85°C)	Explosion Protection Level (EPL)	Additional conditions: Any Static Electricity should be discharged and needs to be diverted to the ground via a conductive air hose not included.	Ambient Temperature

Abbreviate Marking on the Spray Gun:

**CE Ex II 2 G Ex h X**

AIRCUNIS Spray Guns comply with 2014/34/EU Directive relating to equipment and protective systems intended for use in explosive potentially atmospheres.

AIRGUNSA gravity spray gun, has been designed for the application of paints, lacquers and other products that can be atomized by means of compressed air, on all surfaces suitable to receive this type of treatment.



Before use, adjustment or maintenance, it is important to read this instruction manual very carefully. This manual must be stored in a safe place for any future reference.



**ALWAYS observe WARNINGS and CAUTIONS in this instruction manual.**

Symbol	WARNING	HAZARD LEVEL	CONSEQUENCE
	WARNING	POTENTIALLY	Death or serious injury
	CAUTION	HAZARDOUS	Minor to moderate injury
	IMPORTANT	SITUATION	Property damage

## 1. TECHNICAL SPECIFICATIONS

Max. working air pressure:	7.0 bar (100 PSI)
Weight g (lbs): without Cup	395 (0.87)
Weight g (lbs): with 200 ml cup	495 (1.09)
Weight g (lbs): with 600 ml cup	545 (1.20)
Weight g (lbs): with 70 ml cup	435 (0.96)
Noise level (LAeqT)*: Nozzle ø 0.8-1.2 mm	74.0 dB(A)
Noise level (LAeqT)*: Nozzle ø 1.5-1.8 mm	83.5 dB(A)
Air Connection:	G1/4"
Fluid Connection:	G1/4"
Max. Temperature range:	Atmosphere 5 ~ 40 °C Air-Fluid 5 ~ 43 °C

\* Measuring point: 1m backwards from gun, 1.6 m height.

### 1.1 TECHNICAL DATA

AZ4 HTE-S						
	Ø mm	No.	bar	m <sup>2</sup> /min	NZ/min	mm
<b>SMART REPAIR</b> <b>SPOT REPAIR</b>	0.8	AZ4-1	1.0	50	105	120
	1.0			65		150
	1.2			80		160
<b>GENERAL INDUSTRY</b>	1.5	AZ4-2	2.5	195	240	165
	1.8			275		245

SPRAY DISTANCE at 150 mm

## 2. SAFETY WARNING

### FIRE AND EXPLOSION



Never use the following **HALOGENATED HYDROCARBON SOLVENTS**: which can cause cracks or dissolution of gun body (aluminium) due to chemical reaction. **UNSUITABLE SOLVENTS**: methyl chloride, dichloromethane, 1,2-dichloroethane, carbon tetrachloride, trichloroethylene, 1,1,1-trichloroethane

**Sparks and open flames are strictly prohibited.** Paints can be highly flammable and can cause fire. Do not expose to open flames, electrical goods, cigarettes etc.

**Securely ground spray gun using conductive air hose.** (Less than 1MΩ) Always ensure that the spray gun is earthed correctly.

## PROTECTION OF HUMAN BODY



Use in a well-ventilated site, using a spray booth. Poor ventilation can cause organic solvent poisoning and fire.

**Always wear protective gear (safety glasses, mask, gloves) to avoid inflammation of eyes and skin.** In case of any physical discomfort, immediately seek medical advice.

The noise level of AIRGUNSA spray gun doesn't exceed the **85 dB (A)** A-weighted sound pressure value about the risk of daily exposure to noise. The use of individual hearing protection is always recommended, because the terms of use and the influence of other noises in the job area, could increase the average value allowed.

**Pulling the trigger many times during operation, may cause carpal tunnel syndrome.** Always rest, in case of tiredness.

### IMPROPER USE



Never point gun towards people or animals.

Never exceed maximum working pressure or maximum operating Temperature

**Always release air and fluid pressure before cleaning, disassembling or servicing.** Otherwise, remaining pressure can cause bodily injury due to improper operation or scattering of cleaning liquid.

**Tip of fluid needle set has a sharp point.** Do not touch the tip during maintenance to avoid accidents.

**Never use this gun to spray foods or chemicals.** Otherwise, foreign substance, could cause corrosion of fluid passages which could adversely affect health.

**Never alter this spray gun, to avoid insufficient performance and damage.**

**If something goes wrong, immediately stop operation and find the cause. Do not use again, until you have solved the problem.**

**Do not enter working areas, where robots, reciprocators, etc. are used, until they have been turned off.** Otherwise, they could cause injury.

## 3. HOW TO CONNECT

### CAUTION



Use clean air filtered through air dryer and air filter.

**When using this gun for the first time after purchase, adjust fluid needle packing set, spray cleaner to clean fluid passages and remove rust preventive oil.**

**Firmly fix cup to spray gun, to avoid that disconnection of it, can cause bodily injury.**

1. Firmly connect an air hose to air nipple G1/4". (15)
2. Firmly connect a suitable cup to fluid nipple G1/4". (14)
3. Flush fluid passages with a compatible cleaner.
4. Pour paint into container, test spray, adjust fluid output and pattern width.

## 4. HOW TO OPERATE

Suggested atomizing air pressure varies according to each model, and it is listed in the Technical Data table.

Paint viscosity differs according to paint property and painting conditions. 7 to 23 sec. / Ford cup#4 is recommended.



Set the spray distance from the gun to the work piece, as near as possible within the range of 100~200 mm (3.9~7.9 in).

The gun should be held so that it is perpendicular to the surface of the work-piece at all times. Then, the gun should move in a straight and horizontal line. Arcing the gun causes uneven painting.


## 5. MAINTENANCE AND INSPECTION

<b>CAUTION</b>	<b>Before carrying out maintenance and inspection ALWAYS observe warning indications.</b>
<ul style="list-style-type: none"> <li>- Never use spare parts that are not AIRGUNSA originals.</li> <li>- Never damage fluid nozzle tip, fluid needle or air cap hole.</li> <li>- Never immerse the spray gun completely in liquids such as thinner.</li> </ul>	

### 5.1 CLEANING PROCEDURE

	<b>The fluid passages of the gun, must be cleaned thoroughly after each use, especially after use with bi-component paints. Incomplete cleaning can cause defective pattern shape.</b>
<ul style="list-style-type: none"> <li>- Never soak air cap set (1) in cleaning liquid for an extended period, even when cleaning.</li> <li>- Never use metal brush to clean the gun.</li> </ul>	
<ol style="list-style-type: none"> <li>1. Drain remaining paint from spray gun and cup, into a suitable container.</li> <li>2. Pour cleaner into cup.</li> <li>3. Unscrew air cap (1) by 2 turns, to allow atomizing air to back flush, fluid passages of the gun.</li> <li>4. Pull trigger (11) and make sure, that atomizing air enters cup.</li> <li>5. Leave cleaner for a few seconds, then empty it into suitable waste container.</li> <li>6. Repeat procedure above, until spray gun is clean.</li> <li>7. Remove air cap (1) and cup from gun, then clean each section with brush soaked with cleaner and wipe out with waste cloth.</li> <li>8. DRY ALL PARTS completely and apply spray gun lubricant to each thread.</li> </ol>	
	<b>Use neutral cleaner: pH value shall be 6 to 8, otherwise could cause corrosion.</b>

### 5.2 DISASSEMBLE PROCEDURE

<b>IMPORTANT: BEFORE DISASSEMBLY, FULLY CLEAN FLUID PASSAGES.</b>	
<p><b>A.</b> Disassemble air cap (1) and fluid nozzle (2) from gun body, while keeping fluid needle (7) pulled (triggering) in order to protect its seat section.</p>	
<p><b>B.</b> Disassemble fluid needle set (7). (only when strictly necessary)</p>	
<p><b>C.</b> Remove the fluid adj. knob (4) and needle spring (6), extracting the spring and fluid needle set (7), from the back of fluid needle guide (5) set still assembled on the gun body.</p>	
<p><b>D.</b> Adjustment of the needle packing nut (8), must always be carried out with fluid needle (7) still assembled, tightening the nut with a properly spanner, making sure that excessive tightening does not impede movement of fluid needle (7), resulting in paint leaking from fluid nozzle tip (2).</p> <ul style="list-style-type: none"> <li>- When you remove needle packing (17), don't leave the plastic parts of needle packing set in the gun body.</li> <li>- Try to adjust it carefully while pulling trigger and confirming movement of fluid needle set (7).</li> <li>- If you tighten it too much, repeat operation.</li> </ul>	
<p><b>E.</b> For the inspection and replacement of air valve components, remove trigger stud (10) and trigger (11), after which disassemble all air valve components in order: air valve seat (9-3), air valve (9-2), air valve spring (9-1). To reassemble the air valve, reverse the procedure.</p>	
<p><b>F.</b> Disassembly of pattern adjustment set (3) and/or air adjustment set (12). In order to disassemble pattern adj. set (3) and/or air adj. set (12), turn manually turn the hexagon knob of the adjustment counter-clockwise to open it completely and unscrew the hexagon face with a spanner turning it counter-clockwise.</p> <ul style="list-style-type: none"> <li>- To reassemble reverse the procedure.</li> </ul>	
	<b>IMPORTANT: Before reassembling pattern adjustment set and/or air adjustment set, make sure that these operations are carried out with the adjustment fully open.</b>

## 6. TROUBLESHOOTING

PROBLEM	REMEDY
<b>GUN DOES NOT SPRAY</b>	
Fluid adj. knob (4) closed.	Check and adjust it.
Tip hole of nozzle (2) obstructed.	Check and clean it.
Paint filter obstructed.	Check and clean it.
Non drip obstructed.	Check and clean it.
<b>INTERMITTENT SPRAY PATTERN</b>	
Air escapes from fluid nozzle (2).	Check, clean or replace.
Air escapes from fluid needle packing (8).	Tighten.
Air escapes from cup joint.	Tighten.
Dirty inside air cap set (1).	Clean.
<b>DEFECTIVE SPRAY PATTERN</b>	
Dirty nozzle (2) or air cap set (1).	Clean carefully.
Nozzle (2) or air cap (1) has been damaged.	Replace if damaged.
Fluid nozzle (2) is loose.	Tighten.
Paint viscosity too high or too low.	Dilute paint or increase viscosity.
Fluid output too high or too low.	Adjust fluid adj. knob (4) to reduce or increase.
<b>LEAKING</b>	
Fluid nozzle (2), needle set (7) or gun body, dirty, damaged or worn on seat.	Check, clean or replace.
Dirt inside air cap set (1).	Clean.
Loose fluid adj. knob (4).	Adjust.
Fluid needle spring (6) is worn.	Replace.
Loose fluid nozzle (2).	Tighten.
Needle packing nut (8) loose, too tight, dirty or worn.	Adjust, clean or replace.
<b>AIR ESCAPES FROM AIR CAP</b>	
Air valve (9-2) air valve seat (9-3), air valve spring (9-1) dirty or damaged.	Clean or replace.

### 6.1 INSPECTION/ REPLACEMENT STANDARD

WHERE TO INSPECT	REPLACEMENT PART
<b>a. The hole passage of air cap (1) and fluid nozzle (2).</b>	Replace if it is crushed or deformed.
<b>b. Packing.</b>	Replace if it is deformed or worn out.
<b>c. Leakage from seat section between fluid nozzle (2) and fluid needle set (7).</b>	Replace them if leakage does not stop after fully cleaning fluid nozzle (2) and fluid needle set (7).
	If you replace fluid nozzle (2) or fluid needle set (7) only, fully match them and confirm that there is no leakage.

