SPRAY GUN AZ3 HTE2, AZ3 HTE2 AV, AZ3 HTE2 P AV, AZ3 HTE2 HVLP

GB **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.**

This AIR GUNSA spray guns kit complies to ATEX regulations 94/9/EC, protection level: II 2 G X Suitable for using Zones 1 and 2.
X marking: Any static electricity discharge from the spray gun is to be diverted to the ground via the conductive air hose as stipulated

ALWAYS observe WARNINGS and CAUTIONS in this instruction manual.

TECHNICAL SPECIFICATIONS

Max. working air pressure:	7.0 bar (100 PSI)	Air connection:	G 1/4"M
Noise Level (LAeqT)*:	77.6 dB (A)	Fluid connection:	G 1/4"F
Max. Temperature range:	5 ~ 40 °C	Weight g (lbs)**:	517 (1.14)

* Measuring point: 1m backwards from gun, 1.6m height ** Weight without cup..

Model	Nozzle Orifice ø mm (in)	Air cap set Mark	Air pressure at gun inlet bar (PSI)	Fluid output ml/min	Air consumption Nl/min (cfm)	Pattern Width mm (in)
AZ3 HTE2 / AZ3 HTE2 AV Gravity feed						
HTE 2 1.0	1.0 (0.039)	10-15 HTE	2.0 (29)	80	200 (7.06)	180 (7.08)
HTE 2 1.3	1.3 (0.051)			140	200 (7.06)	240 (9.44)
HTE 2 1.5	1.5 (0.059)			160	200 (7.06)	260 (10.23)
HTE 2 1.8	1.8 (0.070)	18-20 HTE		250	215 (7.59)	300 (11.81)
HTE 2 2.0	2.0 (0.079)			300	215 (7.59)	340 (13.38)
HTE 2 2.5	2.5 (0.098)	25 HTE	3.0 (44)	450	280 (9.89)	360 (14.17)
HTE 2 2.8	2.8 (0.110)	28-30 HTE		540	300 (10.59)	380 (14.96)
HTE 2 3.0	3.0 (0.118)			560	300 (10.59)	400 (15.74)
HTE 2 3.5	3.5 (0.138)	35 HTE		600	300 (10.59)	420 (16.53)
AZ3 HTE2 P AV Model with Pressurized Cup						
HTE 2 P AV 1.3	1.3 (0.051)	10-15 HTE	2.0 (29)	140	200 (7.06)	240 (9.44)
HTE 2 P AV 1.5	1.5 (0.059)			160	200 (7.06)	260 (10.23)
HTE 2 P AV 1.8	1.8 (0.070)	18-20 HTE		250	215 (7.59)	300 (11.81)
HTE 2 P AV 2.0	2.0 (0.079)			300	215 (7.59)	340 (13.38)
HTE 2 P AV 2.5	2.5 (0.098)	25 HTE	3.0 (44)	450	280 (9.89)	360 (14.17)

The Anest Iwata AirGunsa **AZ3 HTE2 HVLP** spray gun follows all compliant HVLP mandates. The maximum inlet pressure of 30psi (2.0 bar) to achieve 10psi (0.7 bar) air cap pressure measured dynamically at the center of the air cap follows HVLP standards worldwide.

HTE 2 HVLP	1.3 (0.051)	HVLP	2.0 (30 psi) Air cap press. 0.7 bar (10psi)	150	340 (12.0)	280 (11.0)
HTE 2 HVLP	1.5 (0.059)			185		290 (11.4)
HTE 2 HVLP	1.8 (0.070)			215		340 (13.4)
HTE 2 HVLP	2.0 (0.079)			240		360 (14.2)

SAFETY WARNING

FIRE AND EXPLOSION

1. **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
2. **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.
3. **Securely ground spray gun using conductive air hose.** (Less than 1MΩ) Always ensure that the spray gun is earthed correctly.

Manufactured by: AIR GUNSA s.r.l. 46 Corso Vigevano 10155 Torino - Italy
HEADQUARTERS: ANEST IWATA Corporation
3176, Shinyoshida-cho, Kohoku-ku - Yokohama, 223-8501 JAPAN

PROTECTION OF HUMAN BODY

1. **Use in a well-ventilated site, using a spray booth.**
Poor ventilation can cause organic solvent poisoning and fire.
2. **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.
3. **Noise level can exceed 85dB(A), wear earplugs if necessary.**
4. **Pulling the trigger many times during operation, may cause carpal tunnel syndrome.** Always rest, in case of tiredness.

IMPROPER USE

1. **Never point gun towards people or animals.**
2. **Never exceed maximum working pressure or maximum operating Temperature**
3. **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.
4. **Tip of fluid needle set has a sharp point.**
Do not touch the tip during maintenance to avoid accidents.
5. **Never use this gun to spray foods or chemicals.**
Otherwise, foreign substance, could cause corrosion of fluid passages which could adversely affect health.

HOW TO USE

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.**

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

HOW TO OPERATE

Suggested atomizing air pressure is 2.0 to 3.0 bar (29 to 44 PSI) at gun inlet.

Paint viscosity differs according to paint property and painting conditions, 12 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).

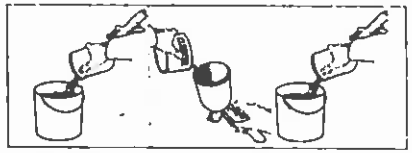
MAINTENANCE & INSPECTION

CAUTION

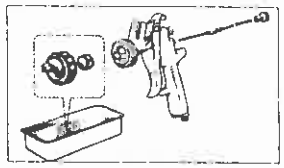
- **Make sure you do not damage tip of fluid nozzle or seat section.**
- **Never use spare parts that are not Air Gunsa originals.**

1. **Pour remaining paint into another container. Clean fluid passages and air cap set.** Spray a small amount of cleaner into the cup and flush out the fluid passages. **Note: Disconnect atomizing air, don't atomize cleaning solution.**

INCOMPLETE CLEANING CAN CAUSE PATTERN SHAPE DEFECTS. ESPECIALLY CLEAN FULLY AND PROMPTLY AFTER USE WITH TWO-COMPONENT PAINT



2. **Clean each section with brush soaked with cleaner and wipe out with waste cloth.**

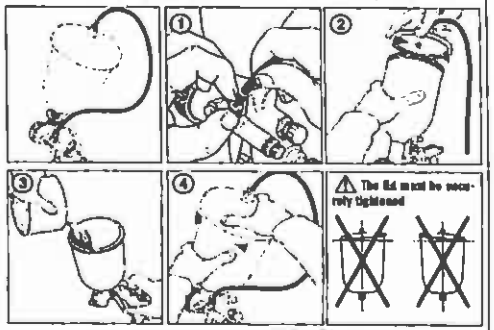


NEVER IMMERSE THE SPRAY GUN COMPLETELY IN SOLVENT, AS IT CAN DAMAGE PARTS.

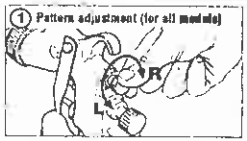
3. **Before disassembly, clean fluid passages.**
   a. Disassemble fluid nozzle, while keeping fluid needle pulled (triggering) in order to protect its seat section.
   b. Disassemble fluid needle set. (only when strictly necessary)
   c. Remove the fluid adj. knob and needle spring, extracting the spring and fluid needle set, from the back of fluid adj. guide set still assembled on the gun body.
4. **Leakage from fluid nozzle set and fluid needle set seat sections. Replace fluid nozzle set and fluid needle set, if leakage does not stop after cleaning them.** If you replace fluid nozzle or fluid needle only, match them carefully and make sure there is no further leakage.

HOW TO USE IN THE CASE OF AZ3 HTE 2 P AV VERSION

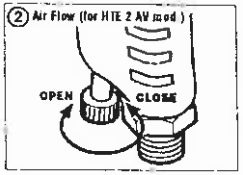
Follow the sequence from 1 to 4 (how to fill cup with paint)

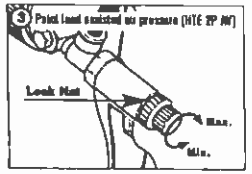


HOW TO ADJUST SPRAY



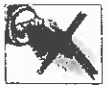
Left turn (L)= LARGE pattern
Right turn (R)= SMALL pattern





TROUBLESHOOTING

GUN DOES NOT SPRAY



- Fluid adj. knob closed	Check and adjust.
- Tip hole of nozzle obstructed	Check and clean.
- Paint filter obstructed	Check and clean.
- Nozzle obstructed.	Check and clean.

INTERMITTENT SPRAY PATTERN

- Air escapes from fluid nozzle.	Check, clean & replace if necessary
- Air escapes from fluid needle packing	Tighten.
- Air escapes from cup joint or fluid hose joint	Tighten.
- Dirt inside air cap.	Clean.

DEFECTIVE SPRAY PATTERN

- Dirty nozzle or air cap.	Clean carefully.
Nozzle or air cap has been damaged.	Replace if damaged
- Fluid nozzle 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 to reduce or increase.

LEAKING

- Fluid nozzle seat or needle set dirty, damaged or worn	Clean or replace if necessary.
- Loose fluid needle adj. knob	Adjust.
- Fluid needle spring is worn.	Replace
- Loose fluid nozzle.	Tighten.
- Needle packing set loose, too tight, dirty or worn.	Adjust, clean or replace

AIR ESCAPES FROM AIR CAP

- Air valve, air valve seat or air valve spring dirty or damaged.	Clean or replace if necessary.

DECLARATION OF CONFORMITY

We AIR GUNSA s.r.l. - Corso Vigevano, 46 - 10155 Torino - Italy declare, under our sole responsibility that the product

AZ3 HTE2 SPRAY GUN series

to which this declaration relates, is in conformity with European ATEX Directive 94/9/CE for use in zone 1 and zone 2 and Machinery Directive 2006/42/CE According with the following international requirements: EN 1127-1, EN 292 2 and EN 1953

Name and position of issuer: Mr. Marco G. VICENTINI, Managing Director

Signature

data 29.12.2009