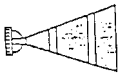
TROUBLESHOOTING

Spray Pattern	Problems	Remedies
 Fluttering	1. Air is mixed into fluid passage from fluid needle packing (15). 2. Air is mixed from between fluid nozzle (2) and tapered seat body.	1. Thigten fluid needle packing (15). or replace packing if damaged. 2. Thigten fluid nozzle (2).Or remove fluid nozzle (2) and clean its seat.
 Crescent	1. Paint buildup on air cap (1), partially clogs horn holes. Air pressure from both horns differs.	1. Remove obstructions from horn holes. But do not use metal objects to clean horn holes.
 Inclined	1. Paint buildup on air cap, partially clogs horn holes or air cap center hole causes damage. 2. Loose fluid nozzle.	1. Remove obstructions. Replace if damaged. 2. Remove fluid nozzle, clean seated section
 Split	1. Fluid output too high. 2. Paint viscosity too low.	1. Adjust fluid adj. knob or pattern adj. knob. 2. Adjus paint to increase viscosity.
 Heavy Center	1. Fluid output too high. 2. Paint viscosity too low.	1. Increase fluid output. 2. Reduce viscosity.
 Spit	1. Fluid nozzle and fluid needle set are not seated properly. 2. The first-stage travel of trigger decreases. 3. Paint buildup inside air cap set.	1. Clean or replace fluid nozzle and fluid needle set. 2. Replace fluid nozzle and fluid needle set. 3. Clean air cap set.

PROBLEMS AND REMEDIES

Problem	Where it occurred	Parts to be checked	Cause	Remedy: Retighten	Adjust	Clean	Replace
Air leaks (from tip of air cap)	Piston	Piston	*Dirt or damage on seat			x	x
		Air valve seat set	*Dirt or damage on seat			x	x
			*Wear on air valve spring				x
		O ring	*Damaged or deteriorated				x
Paint leaks	Fluid nozzle	Fluid nozzle - fluid needle set	*Dirt, damage, wear on seat			x	x
			*Loose fluid needle adj. knob		x		
			*Wear on needle spring				x
		Fluid nozzle - gun body	*Insufficient tightening	x			
			*Dirt or damage on seat			x	x
		Fluid needle - packing set	*Needle does not return due to packing set too tight		x		x
			*Needle does not return due to paint buildup on fluid needle		x	x	
	Fluid needle packing	Needle packing set - needle set	*Wear	x			x
		Packing seat	*Insufficient tightening	x			
Paint does not flow	Tip of gun	Fluid adj. knob	*Insufficient opening		x		
		Tip hole of nozzle	*Clogged			x	
		Paint filter	*Clogged			x	x

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ANEST IWATA

Instruction Manual

WA 200 AUTOMATIC SPRAY GUN

CE

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 that may be necessary.

IMPORTANT

This automatic spray gun should be operated only by an adequately trained operator for safe use and maintenance of the equipment. Any misuse or handling other than those indicated in this Instruction Manual is not covered by guarantee.
ANEST IWATA disclaims all responsibility for any accident or damage caused by failure observing the operational and safety procedures as from this manual. In the interest of user friendliness, this manual contains information in a brief and concise form. For any additional information you may require regarding the automatic spray gun operations, or if any missing parts or any damage during transportation is found, or details of training courses, please contact your nearest **ANEST IWATA Company** (see last cover page).

MAIN SPECIFICATIONS

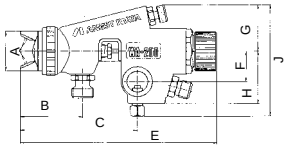
Max. Working Pressure:	6.8 bar	Noise Level (LAeqT)	81.2 dB (A)
Temperature range:	5~40°C		

Model	Nozzle Orifice mm	Air Consumption l/min	Fluid Output ml/min	Pattern Widht mm	Air Cap Set	Weight g	Atomizing air pressure bar
WA- 200-08	0.8	270	255	280	LV2	500	2.0
WA- 200-102	1.0	270	255	280	LV2		
WA- 200-122	1.2	270	255	280	LV2		
WA- 200-08P	0.8	530	500	400	G2P		3.0
WA- 200-102P	1.0	530	500	400	G2P		
WA- 200-122P	1.2	530	500	400	G2P		
WA- 200-152P	1.5	330	270	340	K2		
WA- 200-202P	2.0	360	400	320	R2		
WA- 200-251P	2.5	360	500	330	WI		
WA- 200-066P FT	0.6	170	80	140	FT6	550	0,14
WA- 200-086P FT	0.8	185	100	150			0,16
WA- 200-106P FT	1.0	200	120	160			0,18
WA- 200-126P FT	1.2	220	140	180			0,20

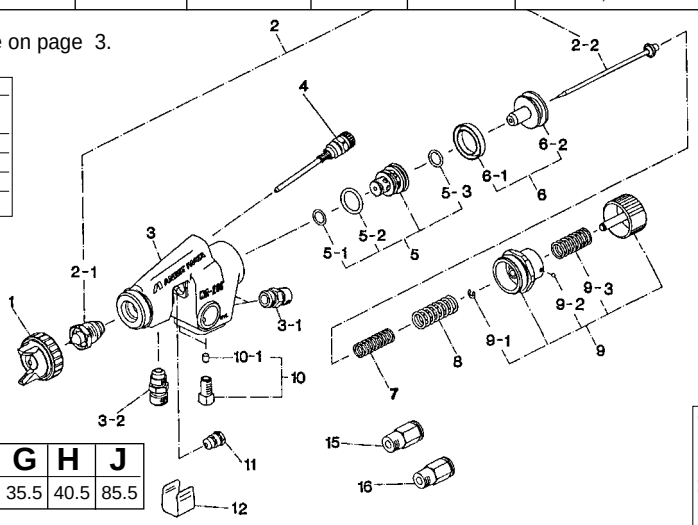
NOTE: for SPARE PARTS list see on page 3.

Fluid nozzle Orifice mm	Fluid nozzle Mark	Fluid needle set Mark
1.2	W200/12	WA12
1.5	W200/15	WA15
2.0	W200/20	WA20
2.5	W400/25	WA25

DIMENSIONS



A	B	C	D	E	F	G	H	J
30.5	47.5	89.5	-	149.5	23.5	35.5	40.5	85.5



Manufactured by: **ANEST IWATA Corporation** 1-9-14, Ebisuminami, Shibuya-ku, Tokyo, Japan

MJ1207EREV.3

SAFETY WARNINGS

FIRE OR EXPLOSION HAZARD

1. Fluid and solvents can be highly flammable or combustible.
   - Use in well-ventilated spray booth.
   - Avoid any ignition sources such as smoking, open flames, electrical hazard, etc.
2. NEVER use HALOGENATED HYDROCARBON SOLVENTS (1.1.1 TRICHLORINE, ETHYL CHLORIDE, etc.), which can chemically react with aluminium and zinc parts and cause an explosion. Be sure that all fluids and solvents used are chemically compatible with aluminium and zinc parts.If in doubt, consult your fluid or solvent supplier to ensure compatibility. Details of materials used in the gun are available on request.
3. To reduce the risk of static sparking, grounding continuity to the spray equipment and object being sprayed must be maintained.

MISUSE HAZARD

1. NEVER point gun in the direction of human body.
2. NEVER exceed the maximum safe working pressure of the equipment.
3. ALWAYS release air and fluid pressures before c!eaning, disassembling or servicing. For emergency stop and prevention of unintended operation, a ball valve installation near the gun to stop air supply is recommended.

HAZARD CREATED WHILE COATING MATERIALS ARE ATOMIZED AND SPRAYED

1. Toxic vapours produced by spraying certain materials can create intoxication and serious damage to health.
   - Use the gun in well-ventilated areas.
   - Always wear protective eyewear, gloves, respirator, etc., to prevent the toxic vapour hazard, solvents and paint from coming into contact with your eyes or skin.
2. Noise level mentioned in main specifications was measured at 1.0 m behind the tip of the gun, 1.6 m height from floor.
   - Wear earplugs if required.

OTHER HAZARDS

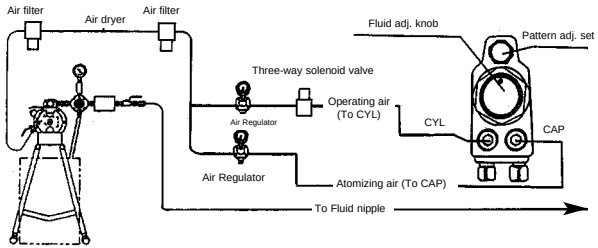
1. NEVER enter working areas of robots, reciprocators, conveyors, etc., unless machines are switched off.
2. NEVER spray foods or chemicals through the spray gun.
3. NEVER modify this product for any applications.

INSTALLATION

IMPORTANT:

- This gun should be operated by adequately trained operators only.
- Ensure that the gun has not been damaged during transportation.
- Clean dry air should be supplied to the gun.

1. Fit the gun to a stand or fitting stay, aim at spraying direction and secure it firmly with fixing bolts.
2. Connect atomizing air hose to atomizing air nipple (CAP marked side) and operating air hose to opera ting air nipple (CYL marked side) tightly.
3. Connect fluid hose to fluid nipple tightly.
4. Flush the gun fluid passage with a compatible solvent.
5. Pour paint into container, test spray and adjustfluid output as well as pattern width.



HOW TO INSTALL HALF UNIONS FORATOMIZING AIR AND OPERATING AIR

1. Remove air nipples for atomizing and operating from gun body.

2. Replace air nipple for atomizing (CAP marked side) with and also replace air nipple operating (CYL marked side) with half union for Orifice Diameter 8 mm air tube attached.
3. Be sure to connect half unions to gun body tightly.

HOW TO OPERATE

1. Adjust operating air pressure from 3 to 4 bar.
NOTE:Valve orifice three-way solenoid valve should be minimum Ø 4 mm and also operating air hose length should be within 10 m with the inner diameter more than Ø 6 mm to avoid delayed operation and any kind of failure.
2. Although atomizing air pressure varies according to spray condition, pulling the piston of the gun with the pattern adj. set fully opened, adjust it normally 2 to 3 bar.
3. Reccomended paint viscosity differs according to paint property and painting conditions. From 15 to 23 sec. is reccomendable.
4. Using WA 200 spray gun set the spray distance from the gun to the work piece as near as possible within the range of 100 ~ 200 mm, using WA 200 FT set the spray distance at 100 mm.
NOTE :Using air hose 12 m long. the inner diameter must be a minimum 8 mm so the gun can have the correct air volume.

MAINTENANCE AFTER PAINTING

WARNING
- TURN OFF AIR AND COATING MATERIALS TO THE GUN AND RELEASE PRESSURE BY SUPPLING ONLY OPERATING AIR PRESSURE BEFORE DISASSEMBLING, CLEANING OR SERVICING.
- PAY ATTENTION WHEN DISASSEMBLING SPRAY GUN SINCE YOU MUST TOUCH SHARP PARTS.
- BEFORE DISASSEMBLING READ CAREFULLY THIS INSTRUCTION MANUAL.

1) Pour remaining paint into another container and then clean paint passages and air cap. Spray a small amount of thinner to clean paint passages. Incomplete cleaning will cause adverse pattern shape and particles. Clean fully and promptly two-component paint after use.
2) Clean other sections with attached brush soaked with thinner and waste cloth.
3) Clean paint passages fully before disassembly.
4) Remove fluid nozzle after removing fluid needle set or while keeping fluid needle pulled, in order to protect seat section.
5) While keeping fluid needle set inserted, tighten fluid needle packing set by hand. Then tighten gradually by spanner. Too much tightening will slow down movement of fluid needle and result in leakage from tip of nozzle.
6) Turn pattern adj. knob counterclockwise to full opening, and then tighten pattern adj. guide into gun body.

WARNING
- NEVER USE COMMERCIAL OR OTHER PARTS INSTEAD OF ANEST IWATA ORIGINAL SPARE PARTS
- NEVER IMMERSE THE WHOLE GUN INTO LIQUID SUCH AS THINNER
- NEVER DAMAGE HOLES OF AIR CAP, FLUID NOZZLE OR FLUID NEEDLE

SPARE PARTS LIST

DESCRIPTION	REF.PART	
AIR CAP SET	1	
FLUID NOZZLE FLUID NEEDLE SET	2	■
FLUID NOZZLE	2-1	
FLUID NEELDE	2-2	
GUN BODY	3	
AIR NIPPLE	3-1	
FLUID NIPPLE	3-2	
PATTERN ADJ.VALVE SET	4	
AIR VALVE SEAT	5	
O RING	5-1	■
O RING	5-2	■
O RING	5-3	■
PISTON SET	6	
PISTON PACKING	6-1	■
PISTON	6-2	
NEELDE SPRING	7	

DESCRIPTION	REF.PART	
PISTON SPRING	8	
FLUID ADJ. SET	9	
STOP RING	9-1	
BALL	9-2	
FLUID ADJ. SPRING	9-3	
BOLT SET	10	
BOLT CAP	10-1	
FLUID NEEDLE PACKING SET	11	■
COVER	12	
BRUSH	13	
INSTRUCTION MANUAL	14	
HALF UNION FOR Ø 0,6	16	
HALF UNION FOR Ø 0,8	17	

*When odering parts, specify gun's model, part name with ref.No. and marked No. of air cap set, fluid nozzle and fluid needle.
■ Marked parts are wearable parts.