

INSTRUCTION MANUAL

和文取説は、裏面にあります。

Automatic Spray Guns WRA-101 / WRA-200

Low Pressure Automatic Spray Gun LRA-200 High Volume Low Pressure

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Important

This manual contains IMPORTANT WARNINGS and INSTRUCTIONS. Equipment in this manual is exclusively for painting purposes. Do not use for other purposes. The operator shall be fully conversant with the requirements stated in this instruction manual including important warnings, cautions and operation and correct handling. Read and understand the instruction manual, before use and retain for reference.	This Anest-iwata spray gun kit complies to ATEX regulations 94/9/EC, Protection level : II 2 G X, Suitable for use in Zones 1 and 2. X marking : Any static electricity discharge from the spray gun is to be diverted to the grounded the conductive air hose as stipulated.

If not, it can cause	e warnings and cautions in this instruction manual. paint ejection and serious bodily injury by drawing organic solvent. e following A marked items which are especially important.
	Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or loss of life.
	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or property damage.
Important	Indicates notes which we ask you to observe. The safety precautions in this instruction manual are the minimum necessary conditions. Follow national and local regulations regarding fire prevention, electricity and safety as well as your own company regulations.

Important specifications

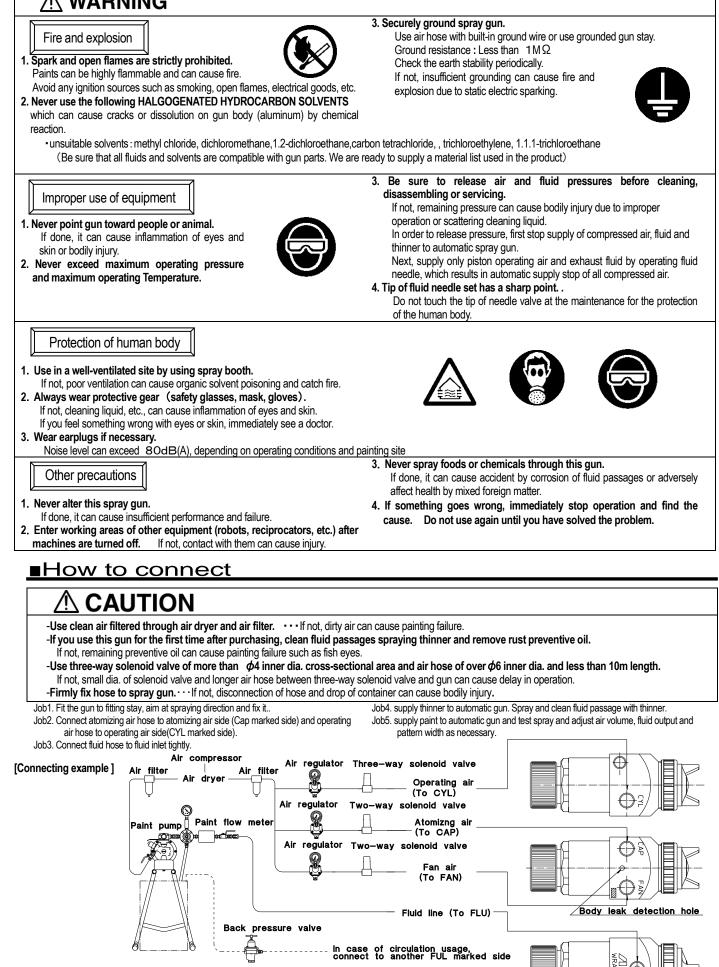
Max. Pressure	0. 68 MPa / 68. 0 bar / 98 PSI			
Noise level WRA-101	78. 7dB(A)			
-200	82. 4dB(A)			
LRA-200	76. 9d B (A)			
Spray condition	Recommended			
Measuring point	1m backwards from gun, 1.6 m height			
Max. Temperature				
Atmosphere	5°C~40°C			
Air • Fluid	5°C~43°C			

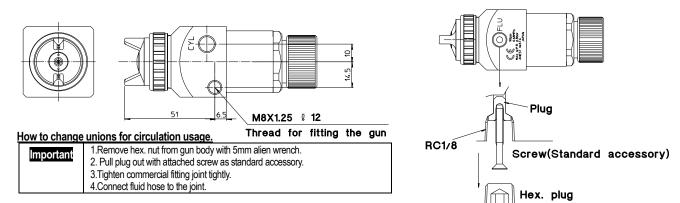
■Main specifications

	food or		Nozzle Air cap orifice Set ¢mm (in) Mark	Recommended condition							
Model		orifice		※1 Air pressure MPa (bar /PSI)		Air pressure inside air cap MPa	Fluid output ml/min	consumption	Pattern width mm(in)	Air &fluid connection	Mass g (lbs)
				Atomizing air	Fan air	(bar /PSI)		l/min (cfm)	. ,		
WRA-101-082PV	RA200-122PV Pressure	0.8 (0.031)	E2P	0.26 (2.6/38)	0.22 (2.2/31)	-	150	270 (9.5)	190 (7.5)		290 (0.64)
WRA200-122PV		1.2 (0.047)	G2P	0.24 (2.4/34)	0.26 (2.6/38)	-	500	530 (18.7)	400 (15.7)	Rc1/8 (Air, Fluid)	310
LRA-200-122PV		1.2 (0.047)	G2	0.14(1.4 /20)	0.16 (1.6/23)	0.07 (0.7 /10)	500	500 (17.7)	300 (11.8)		(0.68)

X1. Air pressure means air pressure at gun inlet when air valve is opened and air flows.

WARNING





■How to operate

Suggested air pressure is 3 to 4 bar (43 to 57 PSI). NOTE:

Valve orifice inside three- way solenoid valve should be minimum \$\phi 4mm\$ (0.157 in) and also operating air hose length should be within 10m (32.8ft) with the inner diameter more than ϕ_{6} mm (0.236in) to avoid delayed operation and any kind of failure.

Recommended paint viscosity differs according to paint property and painting conditions. 15 to 23 sec/Ford cup#4 is recommendable. As LRA -200 is operate at low air pressure, high transfer efficiency will not be obtained if the spray distance is too far.

NOTE:

Using air hose 12m (39.4ft) long, the inner diameter must be a minimum 8mm (0.315) so the gun can have the correct air volume to atomize at 0.7 bar (10PSI) inside air cap.

Set the sprav distance from the gun to the work piece as near as possible within the range of 150-200 mm (5.9-7.8 in) with WRA-101/200,100-200mm (3.9-7.9in) with LRA-200.

Maintenance and inspection

WARNING

• First release air and pressure fully according to item No. 3 of "Improper use of equipment" of WARNING on page 2.

- Tip of fluid needle set has a sharp point. Do not touch the tip of needle valve at the maintenance for protection of the human body.
- Be careful not to damage the tip of fluid nozzle or must not put your hand on it.
- Only an experienced person who is fully conversant with the equipment can do maintenance and inspection.

CAUTION

Never use commercial or other parts instead of ANEST IWATA original spare parts.

- -Never immerse the whole gun into liquid such as thinner.
- -Never soak air cap set in solvent for extended period even if cleaning. It may cause defective pattern.

-Never damage holes of air cap a fluid nozzle and fluid needle.

Step-by-step procedure		Important			
 Pour remaining paint to another container. Clean fluid passages and air ca Spray a small amount of thinner to clean fluid passages. 	ap set	 Incomplete cleaning can fail pattern shape and uniform particles. Especially clean fully and promptly two-component paint after use. 			
2. Clean each section with brush soaked with thinner and wipe out with waste	cloth.	 Soaking whole spray gun in solvent may cause spray gun malfunction. Also soaking air cap set itself for extended period. When cleaning, never scratch each hole of air cap set and fluid nozzle, and fluid needle set. 			
3. Before disassembly, fully clean fluid passages.		3. During disassembly, do not scratch seat section.			
(1)Disassemble fluid nozzle. Use ring spanner, box wrench or optional exclusive spanner (code No.035386000) to disassemble fluid nozzle.		(1)Remove fluid nozzle after removing fluid needle set or while keeping fluid needle pulled, in order to protect seat section.			
(2)Disassemble fluid needle set. Remove fluid adj. set and pull out fluid needle set from gun body. Pay attention so that spring does not suddenly fly out since fluid adj. set pushed by fluid needle spring and piston spring.	t is strongly	(2)Pull fluid needle set after loosening fluid needle packing set to protect fluid needle packing set.			
Where to inspect		Parts replacement standard			
1. Each hole passage of air cap and fluid nozzle	Replace if it is crushed or deformed.				
2. Packing and O ring	Replace if it is deformed or worn out.				
3.Leakage from seat section between fluid nozzle and fluid needle set	Replace them if leakage does not stop after fully cleaning fluid nozzle and fluid needle set.				

Parts list

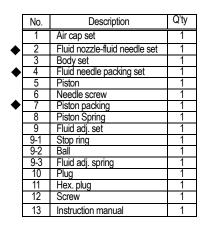
When ordering parts, specify gun's model, part name with ref.No. and marked No. of air cap set, fluid nozzle and fluid needle set.

When replacing fluid nozzle or/and fluid needle for pressure feed application, please order fluid nozzle-needle set.

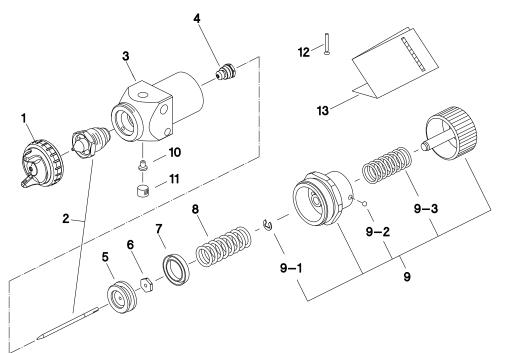
Fluid nozzle -fluid needle set combination

If you replace fluid nozzle or fluid needle set only, fully match them and confirm that there is no leakage.

	Fluid		
Model	Orifice Mark ¢mm(in)		needle set mark
WRA-101	¢0.8 (0.031)	W101/08	
WRA- 200	<i>ф</i> 1.2 (0.047)	W200/12	WRA12
LRA - 200	¢1.2 (0.047)	L200/12	



◆Marked parts are wearable parts.



Troubleshooting

Spray Pattern	Problems	Remedies		
Fluttering	 Air enters between fluid nozzle and tapered seat of gun body. Air enters at fluid hose joint. 	 Remove fluid nozzle to clean seat. If it is damaged, replace nozzle. Fully tighten joint section. 		
Crescent	 Paint buildup on air cap partially clogs horn holes. Air pressure from both horns differs. 	 Remove obstructions from horn holes with attached brush. But do not use metal objects to clean horn holes. 		
Inclined	 Paint buildup or damage on fluid nozzle circumference and air cap center. Fluid nozzle is not properly fitted. 	 Remove obstructions. Replace if damaged. Remove fluid nozzle and clean seat section. 		
Split	1. Paint viscosity too low. 2. Fluid output too high.	 Add paint to increase viscosity. Tighten fluid adj. knob to reduce fluid output. Or turn pattern adj. valve set clockwise. 		
Heavy Center	 Paint viscosity is too high. Fluid output is too low. 	 Add thinner to reduce viscosity. Turn fluid adj. valve knob counter-clockwise to increase fluid output. 		
Spit	 Fluid nozzle and fluid needle set are not seated properly. Paint buildup inside air cap set. 	 Clean or replace fluid nozzle and fluid needle set. Clean air cap set. 		

			R1: retighten R2: adjust	R3 : c	lean	R4 : rep	lace parts
Drahlara		Davia to be abastical	0	Re		emedy	
Problem	Where it occurred Parts to be checked Cause		R1	R2	R3	R4	
	Fluid nozzle Fluid nozz	Fluid nozzle \sim fluid needle	* Dirt or damage, wear on seat surface			0	0
			* Wear on needle spring				0
Paint leaks	Fluid needle packing	cking Fluid needle packing~ packing seat	* Needle does not return due to paint buildup on fluid needle.		0	0	
			* Wear				0
			* Insufficient tightening	0			
		Fluid adj. knob.	* Insufficient opening		0		
Paint does not flow	Tip of gun	Tip hole of nozzle	* Clogged		Ι	0	
	Paint filter	* Clogged			0	0	



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