

INSTRUCTION MANUAL

Round Pattern Spray gun RG-3L/RG-3L1

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 Read and understand the instruction manual, before use and retain for

reference.



Our products are produced as per international standards ISO9001

€ 🗟 || 2G X

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.

Be sure to observe warnings and cautions in this instruction manual. If not, it can cause paint ejection and serious bodily injury by drawing organic solvent. Be sure to observe following			
⚠ WARNING	Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or loss of life.		
$\mathbf{\Lambda}$ caution	ndicates 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, 69MPa/6, 8 ban/98 psi
Noise level	62 dBA)
Spray condition	Recommended
Measuring point	1 m backwards from gun, 1. 6 m height
Max. Temperature	
Atmosphere	5°C~40°C
Air • Fluid	5°C~43°C

Main specifications

				Recommended condition					
Model	Type of feed		Air cap Set mark	☆1 Atomizing air pressure MPa (bar /PSI)	Fluid output ml/min	Air consumption I/min (cfm)	Patlern width mm(in)	Air & fluid connection	Mass g (lbs)
RG-3L1 -3L1-1	Gravity	0.4 (0.016)	1		※ 2 15	30 (1.1)	¥2 25 (1.0)	G1/4 (Air)	
-3L-2 -3L1-2		0.6 (0.024)	2		* 2 35		¥2 35 (1.4)	G1/4 (Fluid)	180 (0.4)
-3L-3 -3L1-3		1.0 (0.039)	3		80	50 (1.8)	35 (1.4)		

X1. Atomizing air pressure means air pressure at gun inlet when trigger is pulled and air flows. X2. Tested with 16sedFord cup#4 paint.

WARNING ∕₹

Fire and explosion



How to connect

CAUTION ∕₹

-Use clean air filtered through air dryer and air filter. •• If not, dirty air can cause painting failure.

-When you use this gun for the first time after purchasing, adjust fluid needle packing set.

Slowly tighten fluid packing seat and loosen a bit when fluid needle set does not return smoothly, and adjust so that fluid needle set smoothly moves

-If you use this gun for the first time after purchasing, clean fluid passages spraying thinner and remove rust preventive oil. If not, remaining preventive oil can cause painting failure such as fish eyes.

-Firmly fix hose or container to spray gun... If not, disconnection of hose and drop of container can cause bodily injury.

Job1. Connect an air hose to air nipple tightly

- Job2. Connect a fluid hose or a container to fluid nipple tightly
- Job3. Flush the gun fluid passage with a compatible solvent.
- Job4. Pour paint into container, test spray and adjust fluid output as well as pattern width

■How to operate

Suggested air pressure is 2.0 to 3.5 bar(29 to 50 PSI). Recommended paint viscosity differs according to paint property and painting conditions. 12 to 23 sec./ Fordcup#4 is

recommendable. Keep fluid output as small as possible to the extent that the job will not be hindered. It will lead to better finishing with fine atomization.

Set the spray distance from the gun to the work piece as near as possible within the range of $50 \sim 200$ mm ($2 \sim 7.9$ in).

Important

1. Basically, air volume should be adjusted by air regulator for atomizing air.

- However, its fine adjustment is possible by adjusting air cap position.- First loosen jam nut and adjust air cap position.
- <Note> Normally the best position of nozzle tip is 0.1~0.3 mm projected from air cap.

2.Adjustment of air adj. set

Only RG-3L1 is provided the air adj. set. It is easy to obtain the finest regulation by adjusting the air adj. set.

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.

Step-by-step procedure	Important		
1.Pour remaining paint to another container. Clean fluid passages and air cap set Spray a small amount of thinner to clean fluid passages.	 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.	 Do not immerse the whole gun in thinner. If done, it can damage parts. 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.	(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. You do not need to remove fluid adj. guide set from gun body. Remove fluid adj. knob and fluid needle spring, and then pull out fluid needle spring, and then pull out fluid needle set from back of fluid adj. guide set.	(2) Be careful when handing tip of fluid needle set since it is sharp. Disassemble fluid adj. guide set as little as possible.		
4.To adjust fluid needle packing set, while keeping fluid needle set inserted, tighten fluid needle packing seat by hand and then tighten further by spanner.	4.Too much tightening of fluid needle packing set can cause bad movement of fluid needle set and fluid leakage from the tip of fluid needle set		
5.In order to assemble air valve, first assemble air valve & air valve spring & fluid adj. guide set together. Next, insert fluid needle set into fluid adj. guide set , then fit it to gun body set and screw fluid adj. guide set.	5. If you try to fit air valve spring and air valve to gun body set without fluid needle set, air valve will not be fitted correctly and lop packing inside fluid adj. guide set will be damaged.		
6. Turn pattern adj. knob or air adj. knob counterclockwise to fully open. And then tighten pattern adj. set or air adj. set	 If pattern adj. Knob or air adj. Knob is not fully opened, tip of it can contact and damage fluid nozzle and cause seizure of thread. 		
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. If you replace fluid nozzle or fluid needle set only, fully match them and confirm that there is no lcakage.		

■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.

Fluid nozzle-needle set combination						
Airpipele	Fluid need e set					
Orifice Φmm (in)	Mark	Mark				
0 4 (0 016)	04	1				
0.6 (0.024)	06	2				
1.0 (0.0.39)	10	3				

Then, the gun should move in a straight and horizontal line. Arcing the gun causes uneven painting. 50-200 mm (2-7.9 in)

The gun should be held so that it is perpendicular to the surface of the workpiece at all time



Parts list

	No.	Description	ŕ				
	110.	Description	RG-3L	RG-3L1			
	1	Air cap set	1	1			
٠	2	Fluid nozzle	1	1			
۲	3	Fluid needle set	1	1			
	4	Jam nut	1	1			
٠	5	needle packing set	1	1			
	7	Gun body set	1	1			
	71	Ruidjoint	1	1			
	8	Trigger	1	1			
	9	E stopper	2	2			
	10	Trigger stud	1	1			
→	11	Air valve shaft	1	1			
4	12	Air valve seal sel	1	1			
	12-1	O'ring	1	1			
	13	Air valve seat screw	1	1			
	14	Plug	*1 1	1			
	14-1	Air adj. set	-	×1 1			
	15	Air valve spring	1	1			
	16	Air valve	1	1			
	17	Ruid adj. guide set	1	1			
	18	Needle spring	1	1			
	19	Fluid adj. knob	1	1			
	20	Brush	1	1			
	21	Instruction manual	1	1			
	 Marked parts are wearable parts. 						
	-			01.4			
	%1 These are individual parts of RG-3L and RG-3L1.						
	U	ner parts are common.					



■Troubleshooting

Spray Pattern	Problems	Remedies			
Fluttering	 Air enters between fluid nozzle and tapered seat of gun body. Air is drawn from fluid needle packing set Air enters at fluid container fitting nut or fluid hose joint. 	 Remove fluid nozzle to clean seat. flit is damaged, replace nozzle. Tighten fluid needle packing. Fully tighten joint 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. 			

			R1 retighten R2 adjust	R3 : clea	in R	4 : replao	e parts		
Problem	Where it	Parts to be checked	Cause		Remedy R1 R2 R3 R4				
	occurred				R2	R3	R4		
	Air valve set	Air valve * Dirt or damage on seat				0	0		
Air leaks		Air valve seat set	* Dirt or damage on seat			0	0		
(from tip of air cup)			* Wear on air valve spring				0		
		O ring	* Damage or deteriorated				0		
	Fluid nozzle	Fluid nozzle~	* Dirt, damage, wear on seat			0	0		
		fluid needle set	* Loose fluid needle adj. knob		0				
			* Wear on needle spring				0		
		Fluid nozzle~gun body	* Insufficient tightening	0					
Paint leaks			* Dirt or damage on seat			0	0		
		Fluid needle~packing set	* Needle does not return due to packing set too tight		0		0		
			* Needle does not return due to paint buildup on fluid needle		0	0			
	Fluid needle	Needle packing set $ \sim $ needle set	*Wear	0			0		
		Packing seat	* Insufficient tightening	0					
	Tip of gun	Fluid adj. knob	* Insufficient opening		0				
Paint does not flow		Tip hole of nozzle	* Clogged			0			
		Paint filter	* Clogged			0	0		



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