

INSTRUCTION MANUAL

Spray Gun W-77 .TA N.TA (STAINLESS STEEL FLUID PASSAGES)

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.

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 Δ marked items which are especially important.					
A WARNING	WARNING Indicates a potentially hazardous situation which, if not avoided, may result in serious injury or loss of life.				
▲ CAUTION	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. 69 MPa / 6. 8 bar / 98 psi
Noise level	82.1dB(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

Model	Type of feed ϕ mm (in)		orifice Air cap	Recommended condition						
		food orifice		※1 Atomizing air pressure MPa (bar /PSI)	Fluid output ml/min	Air consumption I/min (cfm)	Pattern width mm(in)	Air & fluid connection	Mass g (lbs)	
	77-0.TA 77-0N.TA	Pressure	1.2 (0.047)	0	0	480	430 (15.2)	380 (15.0)		
	77-03.TA 77-03N.TA		1.4(0.054)	03		770	440 (15.6)	370 (14.6)		
	77-11S.TA 77-11SN.TA	Suction	1.4 (0.054)	11	0.35	230	290 (10.1)	260 (11.0)	1/4 (Air)	550
	77-2S TA 77-2SN.TA		1.8 (0.071)	2	(3.5/ 50)	305	250 (8.8)	235 (10.0)	3/8 (Fluid)	(1.22)
	77-3S.TA 77-3SN.TA		2.5 (0.098)	3		435	325 (11.5)	280 (11.0)		
W-7	77-11G TA		1 4 (0 055)	11		255	290 (10.1)	270 (10.6)		
W-7	77-21G.TA		1.8 (0.071)	21		390	340 (12.0)	315 (13.0)		
W-7	77-3G.TA		2.5 (0.098)	3		485	325 (11.5)	310 (12.9)		

X1. Atomizing air pressure means air pressure at gun inlet when piston is pulled and air flows.

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 3.5bar (50 psi).

Recommended paint viscosity differs according to paint property and painting conditions. 15 to 23 sec. / Ford cup#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 200-250 mm (8-10 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.



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 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 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. 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. knob and pull out fluid needle set from gun body. Pay attention so that spring does not suddenly fly out since fluid adj. knob is strongly pushed by fluid needle spring and piston spring.	(2)Pull fluid needle set after loosening fluid needle packing set to protect fluid needle packing set Be careful when handing tip of fluid needle set since it is sharp.
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. When replacing fluid needle packing set, be careful that the top old packing does not remain inside	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.
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 leakage.

■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.

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

Fluid nozzle fluid needle set combination

	Fluidi	Fluid needle set			
Type of feed	Orifice	Mark		Mark	
	Φmm (in)	TA	N.TA	TA	N.TA
Pressure	Ф1.2 (0.047)	0	ON	0	ON
Flessule	Ф 1.4 (0.055)	03	03N	0	ON
Quation	Φ1.4 (0.055)	11	11N	1	1N
Suction Gravily	Φ1.8 (0.071)	21	2N	2	2N
Cidvity	Ф 2.5 (0.098)	3	ЗN	3	ЗN

Parts list



	No.	Description	Q'ty			
	14	Air adj. valve set	1			
	15	Stop ring	2			
	16	Trigger stud	1			
	17	Trigger	1			
	18	Air valve spring	1			
•	19	Air valve	1			
٠	20	Air valve seat set	1			
	21	Fluid nipple	1			
	22	Spanner	1			
	23	Brush	1			
	24	Air hose joint set	1			
	25	Fluid hose joint set	1			
		(only pressure feed type)	'	ę		
	24	Instruction manual	1			
٠	Marked parts are wearable parts.					



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. If it is damaged, replace nozzle. Tighten fluid needle packing. 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 property 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	1. Paint viscosity is too high. 2. 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. The first-stage travel of trigger (when only air discharges) decreases. Paint buildup inside air cap set. 	 Clean or replace fluid nozzle and fluid needle set. Replace fluid nozzle and fluid needle set. Clean air cap set.

R1: retighten R2: adjust R3: clean R4: replace parts

Problem	Where it	Parts to be checked	Cause		Remedy			
TUDIATI	occurred	occurred Taris to be checked Cause		R1	R2	R3	R4	
		Air valve	* Dirt or damage on seat			0	0	
Air leaks	Air valve set	Air valve seat set	* Dirt or damage on seat			0	0	
(from tip of air cup)	All valve set	All valve seal sel	* Wear on air valve spring				0	
		Oring	* Damage or deteriorated				0	
			* Dirt, damage, wear on seat			0	0	
		Fluid nozzle \sim fluid needle set	* Loose fluid needle adj. knob		0			
			* Wear on needle spring				0	
	Fluid nozzle	Fluid nozzle ~ gun body	* Insufficient tightening	0				
Paint leaks		Fiuld Hozzle ~ guirtaday	* Dirt or damage on seat			0	0	
		Fluid needle ~ packing set	* Needle does not return due to packing set too tight		0		0	
		Fiuld headle 🗢 packing set	* Needle does not return due to paint buildup on fluid needle		0	0		
	The internation	Needle packing set $ \sim $ needle set	* Wear	0	0			
	Fluid needle	Packing seat	* Insufficient tightening	0				
		Fluid adj. knob	* Insufficient opening		0			
Paint does not flow	Tip of gun	Tip hole of nozzle	* Clogged			0		
		Paint filter	* Clogged			0	0	



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