



INSTRUCTION MANUAL

和文取説は、裏面にあります

Spray Gun VIDER 7

Be sure to observe waming s 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 Amarked items which are especially important.

WARNING

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.

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

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.

Symbol Marking on the Spray Gun:	CE	€x 1120	ExhX								
This ANEST IWATA spray gun complies with 2014/34/EU Directive	CE	⟨£x⟩	II	2	G	Ex h	IIB	Т6	Gb	Х	T Amb +5°C+40°C
relating to equipment and protective systems intended for use in explosive potentially atmospheres.	Complies with European Directive	Specific Marking for Explosion Protective		Category (Zone 1&2)	Type of Atmosphere (GAS)	Ignition Protection (not applied)	Explosion Group (Ethylene)	Temperature Class (≤85°C)	Explosion Protection level (EPL)	Additional conditions: Any static Electricity should be discharged and needs to be diverted to the ground via a conductive air hose not included.	Ambient Temperature

Important specifications

mportant opcomeduorie				
Max. Pressure	0.70MPa/7.0bar/100psi			
Noise level	78.7dB(A)			
Spray condition	Recommended			
Measuring point	1m backwards from spray gun, 1.6m height			
Max. temperature	Atmosphere: 5°C ~40°C (41°F~104°F) Air and Fluid: 5°C ~43°C (41°F~109°F)			

Important Never connect pressure feeding paint except pressure feed type spray gun.

Fluid nozzle - Fluid needle assy combination

rialariozzo rialariozalo della della					
Fluid r	Fluid needle				
		assy			
Orifice Φ mm (in)	Mark	Mark			
Ф 0.8 (0.031)	/II /W1/08	08H WIDER1			
Ф 1.0 (0.039)	/ I /W1/10	UOD WIDER I			
Ф 1.3 (0.051)	/ I /W1/13	13 WIDER1			
Ф 1.5 (0.059)	/ I /W1/15	13 WIDER I			
Ф 1.8 (0.071)	/ 1 /W1 / 18	18 WIDER1			

Main specifications

IVIAITI SPC	omeane.									
				Recommended	d condition					
Madal	Time of food	Nozzle orifice	Air cap assy	*1 Atomizing air	Fluid output	Air consumption	Pattern width	Air & fluid	Mass	
Model	Type of feed		Mark	pressure				connection		
		Ф mm (in)		MPa (bar/PSI)	ml/min	I/min (cfm)	mm (in)		g (lbs.)	
WIDER1-08E2P		0.8 (0.031)		0.29	150	270 (9.5)	190 (7.5)			
-10E2P	Droceum	1.0 (0.039)	F2P	(3.0 / 43)	200	270 (9.5)	220 (8.7)			
-13E2P	Pressure	1.3 (0.051)		200	220 (7.8)	210 (8.3)				
-15E2P		1.5 (0.059)			250	220 (7.0)		240 (9.4)		
WIDER1-10E1S		1.0 (0.039)	E1		85	75 (2.6)	120 (4.7)] <u>.</u> .		
-13K1S	Suction 1.3 (0.051) K1 H2 K1 H2 H2 H2	K1		150	145 (5.1)	155 (6.1)	Air			
-13H2S		Suction	H2		150	225 (7.9)	160 (6.3)	G1/4		
-15K1S				K1		175	145 (5.1)	170 (6.7)	(NPS1/4)	290
-15H2S			1.5 (0.059)	H2	0.24	170	225 (7.9)	175 (6.9)	Fluid	(0.64)
-18N1S		1.8 (0.071)	N1	(2.5 / 36)	210	170 (6.0)	170 (6.7)	G1/4		
WIDER1-10E1G		1.0 (0.039)	E1		95	75 (2.6)	130 (5.1)	(NPS1/4)		
-13K1G	Gravity	1.3 (0.051)	K1		160	145 (5.1)	170 (6.7)] (,		
-13H2G		1.5 (0.051)	H2		100	225 (7.9)	175 (6.9)			
-15K1G		1.5 (0.059)	K1		200	145 (5.1)	180 (7.1)			
-15H2G		1.5 (0.009)	H2		190	225 (7.9)	190 (7.5)			
-18N1G		1.8 (0.071)	N1		240	170 (6.0)	130 (7.3)			

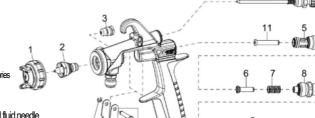
^{*1.} Atomizing air pressure means air pressure at spray gun inlet when trigger is pulled and air flows.

Parts list

	No.	Description	Q'ty
	1	Air cap assy	1
•	2	Fluid nozzle – Fluid needle assy	1
•	3	Needle packing set	1
	4	PattemAdj. assy	1
	5	Air valve seat assy	1
•	6	Airvalve	1
	7	Air valve spring	1
	8	Fluid Adj. guide assy	1

	No.	Description	Q'ty
	9	Fluid needle spring assy	1
	10	Fluid Adj. knob	1
•	11	Air valve shaft	1
	12	Air Adj. assy	1
	13	Trigger assy	1
	14	Trigger stud assy	1
	15	Brush	1





- Marked parts are wearable parts.
- @ When ordering parts, specify spray gun's model, part name with ref. No. and marked No. of air cap assy, fluid nozzle and fluid needle.
- When replacing fluid nozzle or/and fluid needle, please replace both fluid nozzle and fluid needle assy together.
- @ When receiving the spray gun, make sure that it has not been damaged during transport or storage and also check that all the above contents are inside the box



Safety precautions

⚠ WARNING

Fire and explosion

Spark and open flames are strictly prohibited.

Paints can be highly flammable and can cause fire.

Avoid any ignition sources such as smoking, open flames, electrical goods, etc.

Never use the following HALOGENATED HYDROCARBON SOLVENTS

which can cause cracks or dissolution on spray gun body (aluminum) by chemical reaction. unsuitable solvents: methyl chloride, dichloromethane, 1.2-dichloroethane, carbon tetrachloride, trichloroethylene, 1.1.1-trichloroethane (Be sure that all fluids and solvents are compatible with spray gun parts. We are ready to supply a material list used in the product)

Securely ground spray gun by using air hose with built-in ground wire. Ground wire should have less than $1M\Omega$ resistant. Periodically check the ground for continuity.

Insufficient grounding can cause fire or explosion due to static electric sparking.



Improper use of equipment

Never point spray gun toward people or animal.

If done, it can cause inflammation of eyes and skin or bodily injury.

- Never exceed maximum operating pressure or temperature.
- Be sure to release air and fluid pressures before cleaning, disassembling or servicing. 3.

If not, remaining pressure can cause bodily injury or property damage.

To release pressure, first shut off the supply of compressed air and fluid to the spray gun.

Then squeeze trigger, while the spray is pointed in a safe direction.

Tip of fluid needle assy and tip of fluid nozzle has a sharp point.

Avoid touching the tip of the fluid needle or fluid nozzle during maintenance to prevent injury.



Protection of human body

Use only in a well-ventilated area (such as in a spray booth).

If not, poor ventilation can cause organic solvent poisoning and fire hazard.

Always wear protective gear (safety glasses, mask, gloves).

If not, paint, solvents, etc., can cause imitation of eyes and skin.

If you feel something wrong with eyes or skin, immediately see a doctor.

Wear earplugs if necessary.

Noise level can exceed 80dB(A), depending on operating conditions and painting site

If operators pull the trigger many times during use, it may cause carpal tunnel syndrome. Be sure to take a rest if you feel tired.



Other precautions

Never alter this spray gun.

If done, it can cause insufficient performance and failure.

2. Only enter the working areas of other equipment (robots, reciprocators, etc.) after machines have safely been shut down. If not, contact with them can cause injury.

Never spray foods or chemicals through this spray gun.

If done, it can cause accident by corrosion of fluid passages or adversely affect health by mixed foreign matter.

If something goes wrong, immediately stop operation and find the cause. Do not use again until you have solved the problem.



How to connect

A CAUTION

- Use clean air filtered through air dryer and air filter. If not, dirty air can cause painting failure.
- Before using the spray gun for the first time, clean fluid passages with thinner to remove rust preventive oil.

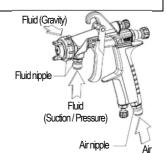
 If not cleaned, the rust preventive oil can cause paint failure, such as fish eyes.
- Firmly connect hose or cup to spray gun. If not, disconnection of hose or drop of cup can cause bodily injury.

Step1. Connect an air hose to air nipple tightly.

Step2. Connect a fluid hose or a container to fluid nipple tightly.

Step3. Flush the spray gun fluid passage with a compatible solvent.

Step4. Pour paint into container, test spray and adjust fluid output as well as pattern width.



Maintenance and inspection

MARNING

- · First release air and pressure fully according to item No. 3 of "Improper use of equipment" of WARNING on page 2.
- · Only an experienced person who is fully knowledgeable of the equipment should perform maintenance and inspection.
- · Use neutral cleaner: pH value shall be 6 to 8, otherwise could cause corrosion.

A CAUTION

· Only use genuine ANEST IWATA parts for any maintenance or repairs.

Step-by-step procedure	Important
Pour remaining paint to another container. Clean fluid passages and air cap assy. Spray a small amount of thinner into fluid passages to clean them. Clean each section with brush soaked with thinner and wipe out with waste cloth.	Incomplete cleaning can result in poor spray pattern and contaminated paint. It is especially important clean the gun fully and promptly after using two-component paint. Soaking whole spray gun in solvent may cause spray gun malfunction. Also soaking air cap assy. itself for extended period may cause a defective spray pattern. When cleaning, never scratch the air cap assy., fluid nozzle, or fluid needle assy Avoid touching or damaging the tip of the fluid nozzle or needle.
Before disassembly, fully clean fluid passages. Remove fluid nozzle, using a ring spanner, box wrench or optional accessory spanner (code 93538601)	During disassembly, avoid scratching the needle seating surface. Either first remove the fluid needle or hold the trigger back while removing the fluid nozzle, to protect the seating surface.
4. If you need to adjust fluid needle packing set, first tighten it by hand (with fluid needle in place). Then tighten it further about 1/6 turn (60-degree) by spanner. When you remove needle packing set, do not leave the plastic tip of the packing in the spray gun body. plastic_piece white Plastic_piece	If you tighten the fluid needle packing set too much, fluid needle will not move smoothly, resulting in paint leakage from tip of the fluid nozzle. Try to adjust it carefully while pulling the trigger and confirming smooth movement of the fluid needle. If you tighten it too much, first fully loosen it and then retighten again carefully
5. To assemble the air valve, first assemble the air valve, air valve spring, and fluid adj. guide assy. together. Next, insert fluid needle into fluid adj. guide assy., then fit it to spray gun body and screw fluid adj. guide assy. in.	If you try to fit air valve spring and air valve to the spray gun body without the fluid needle, the air valve may not be fitted correctly and the packing inside fluid adj. guide assy. can be damaged.
6. Before assembling the pattern adj. assy. or air adj. assy. back on to the gun body, fully turn the adjustment knobs counterclockwise to open. Once in the gun body the pattern adj. knob and air adj. knob can be tightened.	If pattern adj. knob or air adj. knob is not fully opened when tightening into gun body, the tip of it can contact and damage the seating surface.

Where to inspect	Parts replacement standard
Each hole passage of air cap assy and fluid nozzle	Replace if it is crushed or deformed.
2. Packing and O ring	Replace if it is deformed or worn out.
Leakage from seating surface between fluid nozzle and fluid needle	Replace them if leakage does not stop after fully cleaning the fluid nozzle and needle. If you replace the fluid nozzle or fluid needle only, ensure they fully match and confirm that there is no leakage.

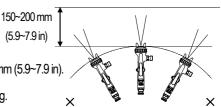
lTroubleshooting

Spray Pattern	Problems	Remedies
Fluttering	 Air enters between fluid nozzle and tapered seat of spray 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 assy partially clogs hom holes. Air pressure from both homs differs.	Remove obstructions from hom holes with attached brush. But do not use metal objects to clean hom holes.
Indined	Paint buildup or damage on fluid nozzle circumference and air cap assy center. Fluid nozzle is not properly fitted.	Remove obstructions. Replace if damaged. Remove fluid nozzle and clean seat section.
Split	Paint viscosity too low. Fluid output too high.	Add paint to increase viscosity. Turn fluid adj. knob clockwise to reduce fluid output. Or turn pattern adj. assy clockwise.
Heavy Center	Paint viscosity is too high. Fluid output is too low.	Add thinner to reduce viscosity. Turn fluid adj. knob counter-clockwise to increase fluid output.
Spit	 Fluid nozzle and fluid needle assy are not seated properly. The first-stage travel of trigger (when only air discharges) decreases. Paint buildup inside air cap assy. 	Clean or replace fluid nozzle and fluid needle assy. Replace fluid nozzle and fluid needle assy. Clean air cap assy.

			R1: retighten R2: adju	ust R3	dean	R4: repl	ace parts
Problem	Where it	Parts to be checked	Coupe		Ren	nedy	
occurred		Paris to be checked	Cause	R1	R2	R3	R4
			Dirt, damage, wear on seat			0	0
		Fluid nozzle ~ Fluid needle assy	Loose fluid needle adj. knob		0	L	
		•	Wear on needle spring				0
	Fluid nozzle	Fluid nazzla Caravaua hadv	Insufficient tightening	0		L	
Paint leaks		Fluid nozzle ~ Spray gun body	Dirt or damage on seat			0	0
Fallitiears		Needle peding est	Fluid needle assy does not return due to packing set too tight		0		0
		Needle packing set	Fluid needle assy does not return due to paint buildup on fluid needle		0	0	
		Needle packing set	Wear	0			0
	Needle packing set	~ Fluid needle assy					_
		Needle packing set	Insufficient tightening	0			
		Fluid adj. knob	Insufficient opening		0		
Paint does not	Tip of spray aun	Tip hole of fluid nozzle	Clogged			0	
come out	Tip of spray gun	Needle packing set	Clogged			0	0
		~ Fluid needle assy	Insufficient tightening		0		
Airleaks	Air valve &	Airvalve	Dirt or damage on seat			0	0
(from tip of air cap	Air valve & Air valve seat assy	Air valve seat assy	Dirt or damage on seat			0	0
assy)	All valve seal assy	All valve scal assy	Wear on air valve spring				0

■ 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. 14 to 25 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 spray gun to the work piece as near as possible within the range of 150~200 mm (5.9~7.9 in).
- The spray gun should be held so that it is perpendicular to the surface of the work piece at all times. Then, the spray gun should move in a straight and horizontal line. Arcing the spray gun causes uneven painting.



(5.9~7.9 in)

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Residual risk

Residual Risk Map Requiring Protective Measures by Machine Users (Abbreviated Name: Residual Risk Map)

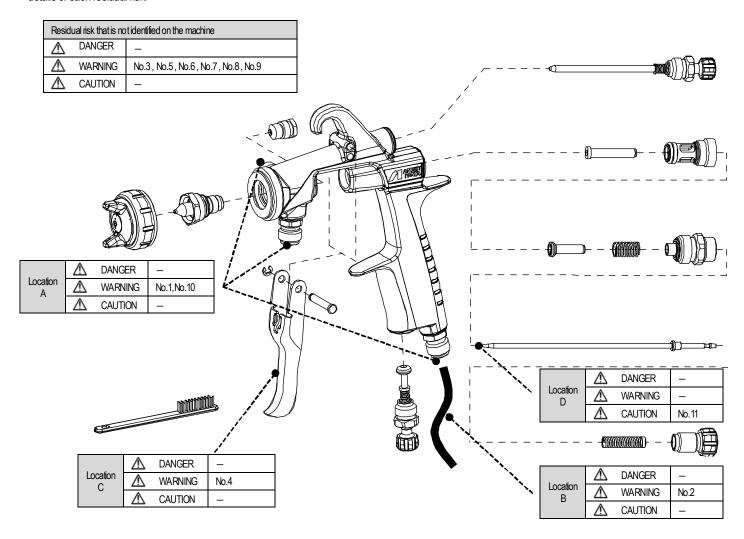
Product model: "Spray gun: WIDER1 / WIDER2"

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** Be sure to read and understand the instruction manual before using the product. This document is a reference material in the instruction manual and must not be used with only an understanding of the contents of this document.

Residual risk is classified and described according to the following definitions					
<u></u> ∆ DANGER	Contents that are likely to cause death or serious injury if protection measures are not implemented.				
★ WARNING	Contents that may cause death or serious injury if protection measures are not implemented.				
	Contents that may cause minor injury if protection measures are not implemented				

Symbols and numbers shown in the figure correspond to those described in the "List of Residual Risks" of the Product. Refer to the List of Residual Risks for details of each residual risk.



Residual risk

List of residual risks requiring protection measures by machine users (Abbreviated Name: List of Residual Risks)

Product model: "Spray gun: WIDER1 / WIDER2"

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※ 1 "degree of hazard" is classified and described according to the following definitions					
<u> </u>	DANGER Contents that are likely to cause death or serious injury if protection measures are not implemented.				
MARNING	Contents that may cause death or serious injury if protection measures are not implemented.				
A CAUTION	Contents that may cause minor injury if protection measures are not implemented				

*2 The symbol shown as "Location on machinery" is the number of the machine section on the Residual Risk Map of the Product. See Residual Risk Map for specific points on the machinery.

No.	Operatio nal Phase	Works	Qualifications and Training required for the work	Location on the machinery *2	Harm Degree *1		Type ofHarm	Protective measure protective measure performed by the machinery user	Instruction Manual Referenced page
1	Use	Preparation work During work	I	А	\blacksquare	Warning	A wrong connection between the air joint and the paint joint may cause paint to spout from an unexpected place and hit the operator.	To provide personal protective equipment	P2
2	Use	All	1	В	\triangle	Warning	Ignition and fire caused by static electricity	Use of a hose with a ground and confirmation of ground	P2
3	Use and mainten ance	During work, decompositi on and rinse	ı	Default	\triangle	Warning	Organic solvents, etc., may come into contact with the eyes and skin, causing irritation.	To provide personal protective equipment	P2
4	Use	During work	-	С	⚠	Warning	Tenosynovitis due to repeated pulling of the trigger	Moderate rest	P2
5	Use	All	-	Default	⚠	Warning	Fire, electrical appliances, etc. ignite, and fire generatings.	Strict ban on the use of fire	P2
6	Use	Preparation work During work	_	Default	Ŵ	Warning	Supply at specified pressure or higher, paint spouls from unexpected places, hiting human body or eyes, blindness	To provide personal protective equipment	P2
7	Use and mainten ance	Preparation work During work	I	Default	⚠	Warning	The product is modified, parts other than genuine parts are used, and an unexpected failure or accident generatings.	No modification Use of genuine parts	P2
8	Use	Preparation work During work	-	Default	⚠	Warning	The patient stayed in a bcation where noise such as blowing air was generated for a long time, resulting in hearing loss.	Use of earplugs is recommended.	P2
9	Use and mainten ance	During work, decompositi on and rinse	-	Default	⚠	Warning	Organic solvent poisoning Due to inhale of solvent and paint mist	To provide personal protective equipment Work in painting booths, etc.	P2
10	Use and mainten ance	Preparation work During work		А	⚠	Warning	If the hoses are triad to be disconnected under pressurized condition, paint, cleaning liquid, air, etc. are spouted out and injured.	To provide personal protective equipment Remove residual pressure	P2
11	Mainten ance	Preparation work	_	D	⚠	Caution	Needle valve piercing with sharp comers	To provide personal protective equipment	P2

No.R003-00 Code No.03014490