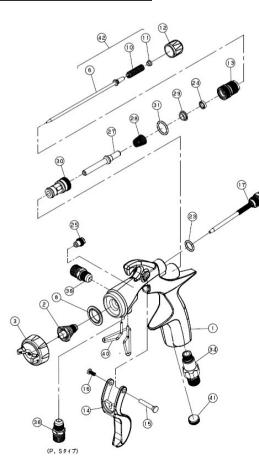
ncili		In	struct	ion I	Manu	al	_			Hand Spray Gun
wmbol Marking on the Spra	ay Gun:	<b>((</b>								
	-	Œ	(E)		П	2	G	E	xh	х
his MEIJI AIR spray gun omplies with 2014/34/eu D elating to equipment and pr ystems intended for use in xplosive potentially atmosp	rotective	Complies with European Directive	Specific Marking fr Explosion Protective	or (S	iroup II Surface)	Category (Zone 1&2)	Type of Atmosphere (GAS)	Ignition	tion /	Additional conditions: Any static Electricity should be discharged and needs to be diverted to the ground via a conductive air
hank you for pure	chasin	g MEIJI Ha	and Spray	Gun.					1	nose not included.
- · ·			E	Before	Usina	this Proc	luct			
To ensure safe and prope	er use of t	his product, be	sure to read thro	ough this or	peration man	ual, and understar		of this manual	thoroughly be	efore using the produ-
After reading this operatio To lend or transfer this pro If this operation manual is To improve the product qu he illustrations may be diffe If you have any question c	s lost or d Jality or p erent from	amaged, immed erformance or t those of the ad	diately order a n o ensure safety ctual product.	the parts ι	m our author used in the pr	ized dealer or disti oduct are subject t	to change. In th			ption and some parts
	IG/C	AUTION	or neg	lecting a						ndling manners ı, and/or seriou
Fire and Explo	osior	1								
Do not use a halogo Chemical reaction will lincompatible solvent richloroethane, etc. Before using a special Ground spray gun se If spray gun is not see Protection of I. Ensure thorough ve To conduct spray won If you conduct spray you of flammability will increa Wear appropriate C During spray and cless Some kinds of paints vork, wear appropriate We recommend uses The product may pro-	th the s t: methy al paint ble. curely c turely c turely c <b>HUN</b> entilation rk, be s work in ease. clothes cause clothes ers to w duce a	olvent cause: vl chloride, e or paint thinn For example, <u>rrounded, it g</u> <b>nan BOC</b> <b>on.</b> ure to select an airtight roo <b>and protecti</b> ork, always v a hazard, if t a nagloves. year ear plug noise level of	s spray gun b thyl chloride, er, thoroughl use hose wi enerates spa y a well ventila om or insuffic ve gear. vear appropri he paint touc sp for health 80 dB (A) or	méthylei y check il th ground rks of sta ted place iently ven iate clothe thes eyes and safe	ne dichlorid f the materi I wire. titc electrici with a boo tilated plac es and prot or the skir ety.	de, ethylene di lal is compatibli th, causing a fir th. e, you may suf ective gear (go , Check the pa	chloride, car e or not. re and explos fer poisoning ggles, G-7-0 int and solve	sion. g caused by 4 mask, and ent being us	organic solv d gloves). sed. During	vent, or a risk fact
I. Take a rest if you go Pulling the trigger ma Improper Ha	any time	s during long	-hours of wo	·	ause tendo	vaginitis.				
<ul> <li>Do not direct spray</li> <li>Never attempt to spra</li> </ul>	r <b>gun to</b> ay paint	ward people toward peop	le or animals	i.						
Failure to observe thi Luse spray gun with	in the r	naximum op	erating pres	ssure.	-			human bod	у.	
Never use spray gun During interruption	ofwor	k, release co	ompressed a	air. '	0.1	,	,			
<ul> <li>Before cleaning, disass</li> <li>If compressed air is ro</li> <li>To release compress</li> <li>Do not touch the tip</li> <li>The tip of the needle</li> </ul>	emainir ed air, s <b>p of the</b>	ng in spray gu stop supplyin <b>needle valv</b>	ın, it may acc g compresse <b>e and paint</b>	cidentally d air, pair <b>nozzle d</b> i	work, or clo nt and pain u <b>ring main</b>	eaning solvent t thinner to spra i <b>tenance.</b>	may spatter,	causing a h	nazard to hu	
Other Precau			, , ,		,	, ,				
<ul> <li>Do not modify the p</li> <li>Do not modify spray g</li> <li>If you modify spray g</li> <li>Stop other equipment</li> </ul>	oroduct gun. un, it ca	t.	sufficient pe	rformance	e. Also, a fa	ailure of the ma	chine may re	esult.		
To conduct spray work If you touch a robot o <b>5. Do not use spray g</b> Do not apply spray gu Corrosion of paint circ	in an op or recipr <b>un for f</b> un to fo cuit may	ocating equip ood and che od or chemic y result in an	ment, you m micals. als. accident. Als	ay get inj so, mixtur	ury. e of foreign	••••	,.			opped first.
If an abnormal cond If you find a problem,						of the problem	. Do not use	gun until th	e problem c	an be solved.
Installation	sed air									
Use clean compresse <b>Ensure tight conner</b> When connecting pair and other liquids may s <b>Conform to the rate</b> Make sure that the air	ed air th ctions. int cup a patter c ed with	at has passe and air hose over human b stand press	to spray gun, ody, painted <b>ure of hose.</b>	tighten ti work pied	hem secure ces and pe	ely by using spa ripheral equipm	anner. If the nent, resulting	connection g in damage	is loose, co e.	mpressed air, pai
					-1-					
3. Specificat	ions	<b>&gt;</b>								
Model	Paint feed system	Paint nozzle bore mm	Applicable air cap	Spraying distance mm			Paint spraying volume	Maximum effective pattern	Connectio bore	on Weight g
-,				<u> </u>	<u> </u>		mL/min	mm		

	system	mm	·	mm	MPa	L/min	mL/min	mm		Ŭ
FINER-FORCE T		1.4	т			210	130	260		
FINER-FORCE <b>R</b>	Gravity	1.4	R	200	0.2	180	160	250		
FINER-FORCE B	Gravity	1.6	В			190	180	280	G1/4 (Air/paint)	325
FINER-FORCE C		1.4	С	150	0.15	170	130	220		
FINER-FORCE-	Suction	1.4	т	200	0.2	210	100	220		

\* Paint viscosity is 12 seconds if you use automobile-repair high-solid paint and a Meiji V-1 Viscosity Cup.

### 4. List of Components



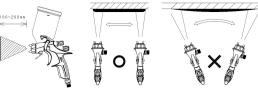
No.	Name	Qty.
1	Body	1
2	Paint nozzle	1
3	Air cap set	1
6	Needle valve set	1
8	Baffle plate	1
10	Needle spring	1
11	Spring insert	1
12	Paint adjusting screw	1
13	Needle cylinder	1
14	Trigger	1
15	Trigger pin (for resin)	1
16	Trigger screw	1
17	Pattern control valve set	1
23	O-ring S10 FKM	1
24	U packing P6	1
25	Needle packing screw set	1
27	Air valve	1
28	Air valve spring	1
29	Trigger stopper	1
30	Valve seat set	1
31	O-ring S12.5 FKM	1
34	Air volume control valve set	1
38	Hexagon nipple 1/4×M11G	1
40	Gun stand	1
41	Hexagon socket headless screw M12×1	1
42	Needle valve spring set (with spring insert)	1
Accessory	Identification ring / spanner set	1

## 1. Operation Procedure

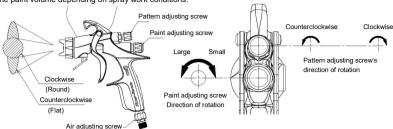
1. Mount a paint cup and an air hose to the spray gun by using a spanner or other tool.

2. The appropriate spraying pressure is between 0.15 and 0.25 MPa. However, this value varies depending on the viscosity and properties of the paint, and the working conditions. DO NOT use the spray gun above the stipulated maximum working pressure (0.69 MPa). 3. Appropriate spraying distance is between 100 mm to 200 mm. If the spraying distance is too short, or if you spray paint while moving the gun in a

- circular motion, a good result cannot be achieved.
- 4. To achieve a uniform result, always hold the spray gun perpendicular to the paint surface



- 5. Tightening the air volume adjusting screw counter clockwise will increase the air volume. ase the air volume, and loosening the air volume adjusting screw
- 6. If you tighten the pattern adjusting screw by turning it clockwise completely, paint is sprayed in a spot pattern. As you loosen the pattern adjusting screw by turning it counterclockwise, the spray pattern area gradually increases. When you rotate the screw approximately three times, the pattern area becomes the maximum. Adjust the spray pattern depending on the spray work step and the type of paint being used. 7. If you tighten the paint adjusting screw by turning it clockwise, the spray volume decreases. As you loosen the screw by turning it
- counterclockwise, the spray volume gradually increases. When you rotate the screw three to four times, the spray volume becomes the maximum. Set the paint volume depending on spray work conditions.



8. Setting guidelines for various adjusting mechanisms (These values are just an example, and actual values vary depending on the various See the paint manufacturer's specifications before setting values.)

Setting condition example	Touch up			Solid			Metallic pearl			Clear		
Model	T/C	R	В	T/C	R	В	T/C	R	В	T/C	R	В
Paint adjusting screw (Number of rotations)	1 to 1.5		2 to 3	2 to 3	2 to 2.5	2 to 2.5	2 to 2.5	1.5 to 2	3 to 4	3 to 4	2.5 to 4	
Pattern adjusting screw (Number of rotations)		1 to 2		Fully open			Fully open			Fully open		
Gun distance (mm)	Up to 100		150 to 200	200	200	150 to 200	200	200	150 to 200	200	200	
Spraying pressure (MPa)	0.1 to 0.15		0.15 to 0.2	0.2	0.2	0.15 to 0.2	0.2	0.2	0.2 to 0.25	0.2 to 0.25	0.2 to 0.25	

#### 2. Maintenance and Inspection

1. Clean and lubricate the spray gun every day to maintain it in the best operating condition.

- 2. Wipe dust off the spray gun body with a cloth damped with a solvent. Soaking the spray gun in solvent will not only remove lubrication, but also lead to painting problems due to adhering objects entering into the air circuit. We shall not be liable for any problems resulting from the use of a gun cleaner that causes dust or paint waste to enter the air circuit of paint nozzle or air cap.
- 3. After using the spray gun, be sure to clean it with a clean solvent, and leave the cup empty.
- 4. To clean the cup, remove excess paint and pass an appropriate solvent through the cup to wash off residual paint.
- 5. Using the spray gun for painting while cleaning solvent is in the gun or cup, or while paint waste, dirt, etc. are in the paint circuit will result in a painting failure
- 6. After disassembling the air cap set (3) and paint nozzle (2), clean them with a brush. When disassembling the paint nozzle, be careful not to damage it.
- 7. To clean the paint circuit, spray a small quantity of solvent in the same manner as spray work
- 8. Be sure not to damage each hole of the air cap set (3), and the center hole and tip periphery of the paint nozzle (2).
- 9. If the needle valve set (6) or air valve (27) malfunctions, apply a small quantity of oil (non-silicone oil) to the sliding part from the outside.
- Always remove any remaining water after cleaning, as failure to do so can cause rust.
   Do not soak the entire spray gun and the air cap set (3) in liquid such as solvent (cleaning solution). Soaking them for a long time will damage their components. -2-

# 5. Parts Replacement

Before replacing spray gun parts, remove residual paint, and then clean the spray gun. Then, release air pressure from the spray gun, and remove the air hose and paint cup.

To repair the spray gun, place it in a clean level place, and wear protective goggles. For parts replacement, use the specified appropriate tools. • Replacement of paint nozzle and needle valve set (It is recommended that these parts should be simultaneously replaced.)

- 1. Remove the paint adjusting screw (12), and pull out the needle valve spring set (42) from the spray gun body.
- 2. Remove the air cap set (3).
- 3. Remove the paint nozzle (2) by using spanner 17 or socket wrench 17.
- 4. Tighten the paint nozzle (2) at a tightening torque of 10 N · m by using a torque wrench. Please be careful of the directions of baffle plate
- Replacement of the air volume control valve set 1. Remove the air volume control valve set (34) with spanner 13.
- 2. Apply anaerobic sealing agent to the screw tip and tighten the screw
- Replacement of the pattern control valve set

1. Before disassembling or assembling the pattern control valve set (17), turn the knob counterclockwise completely to loosen it.

- Replacement of the valve seat set, air valve, air valve spring, trigger stopper, and needle cylinder 1. Remove the paint adjusting screw (12), and pull out the needle valve spring set (42) from the spray gun body.
- 2. Remove needle cylinder (13) using socket wrench 12.
- Remove the trigger stopper (29), air valve spring (28), and air valve (27) from the spray gun body.
   Remove the valve seat set (30) by using hexagon wrench 10 so as not to damage the seat surface which makes contact with the air valve (27). (Do not use a ball-point hexagon wrench. This rule applies for the replacement below)
- Tighten the valve seat set (30) by using hexagon wrench 10 until the seat touches the spray gun body. Then, re-tighten the seat lightly.
   Insert the air valve (27) until it reaches the innermost end so as not to damage the seat surface. Then, insert the air valve spring (28) and
- trigger stopper (29). 7. Tighten the needle cylinder (13) with socket wrench 12.

Replacement of the needle packing screw set

- 1. Remove the needle packing screw set (25) using the supplied spanner 7.
- 2. Tighten the needle packing screw set (25) using the supplied spanner 7.

#### 6. Failure Causes and Corrective Actions

Symptom	Cause(s)	Corrective action			
Paint cuts out	Lack of paint in the paint container The paint circuit is clogged. The screw or paint nozzle (2) at the paint circuit connection is loose, or the taper seat area is damaged. The needle packing screw (25) is loose or worn.	Refill paint. Clean with solvent. Tighten or replace. Tighten or replace.			
Imbalance	The square hole in the air cap (3) is partially clogged or damaged. Paint or dirt is adhering to the tip periphery of the paint nozzle (2).	Clean or replace. Clean or replace.			
Crescent	The square hole in the air cap (3) is partially clogged or damaged, or paint or dirt is adhered to the inside of the center hole, or it is damaged Paint or dirt is adhering to the tip periphery of the paint nozzle (2).	Clean or replace. Clean or replace.			
Thick in the middle	The bore of the paint nozzle (2) has been worn out and is larger. Spraying pressure is too low. Viscosity is too high.	Replace. Increase air volume and pressure. Reduce viscosity.			
Narrow in the middle	Spraying pressure is too high. Dirt or paint is adhering to the gap between the center hole of the air cap (3) and the periphery of the paint nozzle (2).	Reduce air volume and lower air pressure. Clean.			
Paint leakage from the needle packing screw	The needle packing screw set (25) is loose, or worn.	Adjust the needle packing screw (25). Replace.			
Fluid leakage from the tip of the paint nozzle	The paint nozzle (2) and needle valve set (6) are worn or damaged. The needle packing screw set (25) or the needle valve set (6) is stuck. The needle packing screw set (25) has been improperly adjusted.	Replace. Lubricate. Adjust.			
Air leakage from Air valve	Seat surface of Air valve(27), Valve seat set(30) has dirt, damage or worn out. Air valve spring(28) worn out.	Clean or replace Replace			

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