



General Industry

iCon[®] X3

**ANEST
IWATA**

PUMPS

**MIDDLE - HIGH
PRESSURE RANGE**

**iCon[®]
M233N**

MULTI SPRAY PUMP

**iCon[®]
A233N**

AIRLESS PUMP



**USER'S
INSTRUCTION
MANUAL**

CE  EAC

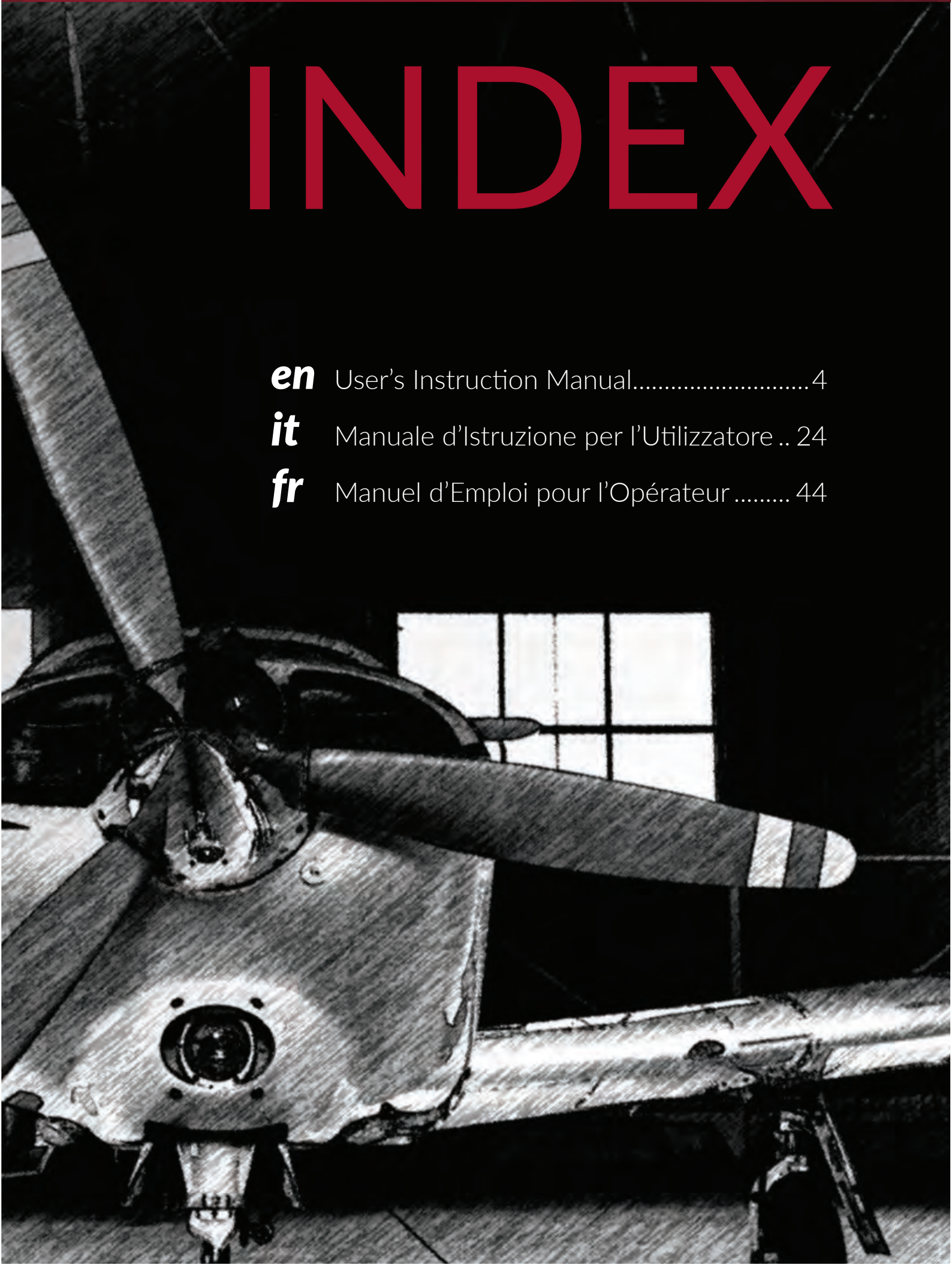
iCon-M233N Multi Spray Unit

iCon-A233N Airless Unit



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Dear Customer,

We thank you for the preference you gave us and we are glad to count you among our customers.

We hope the use of this equipment will satisfy you and your staff.

1. IMPORTANT INFORMATION





IMPORTANT	
	This manual is an integral part of the equipment and must to be read carefully before starting ANY ACTIVITY involving the use, adjustment and maintenance of the unit, including its handling. This manual must be stored in a safe place for any future 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.
  II 2 G T6 X	ANEST IWATA ICON Pump Unit complies to ATEX regulations 2014/34/EU; <ul style="list-style-type: none"> • Protection level: II 2G T6 • Equipment group: II • Category: Gas 2G • Area: Gas 1 • Maximum superficial temperature: Temperature class T6













ALWAYS OBSERVE WARNINGS AND CAUTIONS IN THIS MANUAL



WARNING	HAZARD LEVEL	CONSEQUENCE
WARNING	POTENTIALLY HAZARDOUS SITUATION	DEATH OR SERIOUS INJURY
CAUTION	POTENTIALLY HAZARDOUS SITUATION	PROPERTY DAMAGE



2. SAFETY WARNING

 WARNING	FIRE AND EXPLOSION HAZARDS
	SPARKS 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.
	SECURELY GROUND PUMP UNIT BY INCLUDED GROUND WIRE: 1.6m - Crimping Terminal \varnothing 6.5 ELECTRICAL RESISTENCE: > 1MΩ. Check this value periodically. Securely ground pump, spray gun, workpiece and containers containing paint or solvent. Insufficient grounding can cause fire and explosion due to static electric sparking.
	NEVER USE THE FOLLOWING HALOGENATED HYDROCARBON SOLVENTS which can cause cracks or dissolution of some pump's components 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 EQUIPMENT'S PARTS. We can supply a list of materials used to manufacture the product.

 WARNING	IMPROPER USE OF THE EQUIPMENT
	NEVER POINT SPRAY GUN TOWARDS PEOPLE OR ANIMALS. NEVER PULL TRIGGER OF GUN WHEN HUMAN BODY OR FINGERS COME NEAR THE BOTTOM OF NOZZLE TIP. If done, it can cause inflammation of eyes and skin or bodily injury. If you feel any abnormality during operation, consult a medical doctor immediately.
	NEVER EXCEED MAXIMUM OPERATING PRESSURE AND MAXIMUM OPERATING TEMPERATURE. Overcoming pressure limit can cause the explosion of the pump resulting in great danger.
	BE SURE TO RELEASE AIR AND FLUID PRESSURE BEFORE CLEANING, DISASSEMBLING OR SERVICING. If not, remaining pressure can cause bodily injury due to improper operation or scattering cleaning liquid. In order to release pressure, first stop supply air to pump.

 WARNING	PROTECTION OF HUMAN BODY
	USE IN A WELL-VENTILATED SITE BY USING A SPRAY BOOTH. If not, poor ventilation can cause organic solvent poisoning and catch fire. If you feel any abnormality during operation, consult a medical doctor immediately.
 	ALWAYS WEAR PROTECTIVE GEAR (safety glasses, mask, gloves.) If not, cleaning liquid can cause inflammation of eyes and skin. If you feel something wrong, consult a medical doctor immediately.
 	The noise level of ANEST IWATA Spray Gun doesn't exceed the 85 dB (A) A-weighted sound pressure value about the risk of daily exposure to noise. THE USE OF INDIVIDUAL HEARING PROTECTION IS ALWAYS RECOMMENDED , because the terms of use and the influence of other noises in the job area, could increase the average value allowed.
 	BE SURE TO STOP PUMP, REDUCE AIR AND FLUID PRESSURE DOWN TO 0 AND SECURELY APPLY SAFETY LOCK OF SPRAY GUN BEFORE FIT OR REMOVE NOZZLE TIP. Emission of paint or solvent during operation can cause great danger.
	For emergency stop, when the distance between the gun and the pump unit is fairly wide, it is recommended to install a ball valve to close the delivery paint at gun inlet.
	NEVER TRY TO STOP LEAKS BY HAND, WHEN PAINT LEAKS. In case of leaks, stop pump immediately and reduce paint pressure down to 0. High pressure paint emission, can cause severe injury to the body resulting in a great danger for health. If you feel any abnormality or receive any injury, consult a medical doctor immediately.
	Pulling trigger many times during operation, may cause carpal tunnel syndrome. ALWAYS REST, IN CASE OF TIREDNESS.

 WARNING	OTHER PRECAUTIONS
	NEVER ALTER THIS PUMP UNIT. If done, it can cause insufficient performance and failure or in extreme cases, explosions.
	DO NOT ENTER IN WORKING AREAS WHERE ROBOTS, RECIPROCATORS, ETC. ARE USED, UNTIL THEY HAVE BEEN TURNED OFF. Otherwise they could can cause injury.
	NEVER USE THIS PUMP TO SPRAY FOODS OR PHARMACEUTICAL CHEMISTRY PRODUCTS. Otherwise, foreign substance could cause corrosion of fluid passages which could adversely affect health.
	IF SOMETHING GOES WRONG, IMMEDIATELY STOP OPERATION AND FIND THE CAUSE. Do not use the pump again until you have solved the problem.
	NEVER USE SPARE PARTS THAT ARE NOT ANEST IWATA ORIGINALS.

 WARNING	BURST OF FLUID HOSE
	NEVER USE CRACKED, DAMAGED, BENT OR CRUSHED FLUID HOSE. High pressure paint emitted from small hole can pierce an iron plate and cause great danger.
	NEVER BEND FLUID HOSE WITH A RADIUS OF LESS THAN PERMITTED BEND RADIUS. Contact us, or the shop who sold the hose to you, about permitted bend radius. Never put heavy things on paint hose, in order not to damage the it. If done, the hose can explode causing great danger.

3. RELATED MANUAL

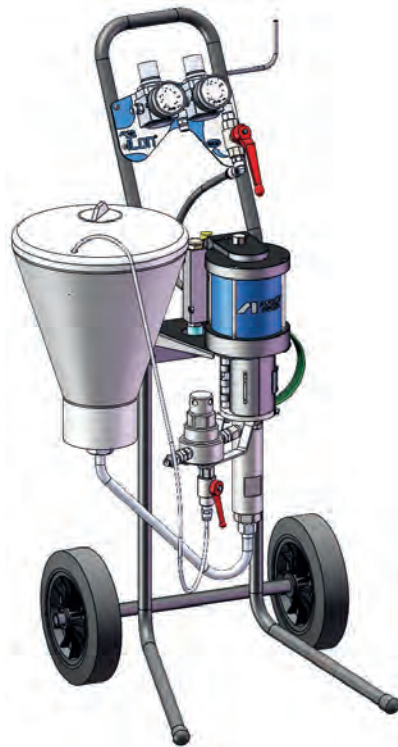
Manual Code	Model	Description
040057A0	ICON-M233N/ ICON-A233N	ICON Pump
W5MSG5	MSG5-200 EVO	Multi manual spray gun
MJ T080-00	ALG-7 TE	Airless manual spray gun

iCon MULTI SPRAY Pumps CONFIGURATION**ICON M233N-S****Pump Unit mounted on CART with SUCTION HOSE SET**

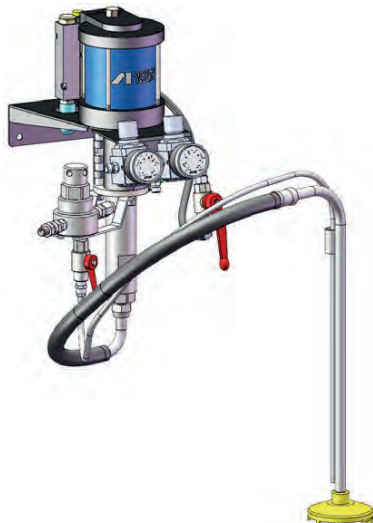
2 Air Pressure Regulators (1 for pump and 1 for gun)
 Delivery Paint Filter unit TF-1S (100 mesh)
 Suction hose with filter (50 mesh)
 Fluid Recirculation Hose
 Dimensions (LxWxH): 495 x 450 x 965 mm - Weight 16 Kg

**ICON M233N-H****Pump Unit mounted on CART with Gravity HOPPER SET**

2 Air Pressure Regulators (1 for pump and 1 for gun)
 Delivery Paint Filter unit TF-1S (100 mesh)
 Gravity Hopper set (6 lt.) with filter (50 mesh)
 Fluid Recirculation Hose
 Dimensions (LxWxH): 495 x 550 x 965 mm - Weight 16 Kg

**ICON M233N-SWM****Pump Unit mounted on WALL MOUNT with SUCTION HOSE SET**

2 Air Pressure Regulators (1 for pump and 1 for gun)
 Delivery Paint Filter unit TF-1S (100 mesh)
 Suction Hose set with filter (50 mesh)
 Fluid Recirculation Hose
 Dimensions (LxWxH): 380 x 320 x 515 mm - Weight 11Kg

**ICON M233N-HWM****Pump Unit mounted on WALL MOUNT with HOPPER SET**

2 Air Pressure Regulators (1 for pump and 1 for gun)
 Delivery Paint Filter unit TF-1S (100 mesh)
 Gravity Hopper set (6 lt.) with filter (50 mesh)
 Fluid Recirculation Hose
 Dimensions (LxWxH): 380 x 420 x 515 mm - Weight 11Kg



iCon AIRLESS Pumps CONFIGURATION

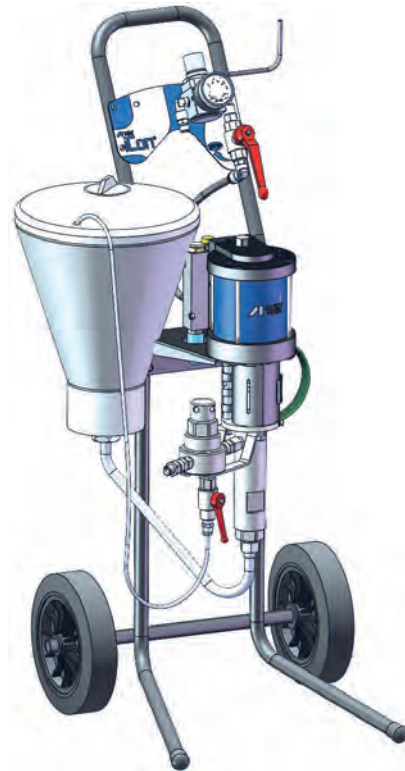
ICON A233N-S

Pump Unit mounted on CART with SUCTION HOSE SET
 Air Pressure Regulator
 Delivery Paint Filter unit TF-1S (100 mesh)
 Suction hose with filter (50 mesh)
 Fluid Recirculation Hose
 Dimensions (LxWxH): 495 x 450 x 965 mm - Weight 16 Kg



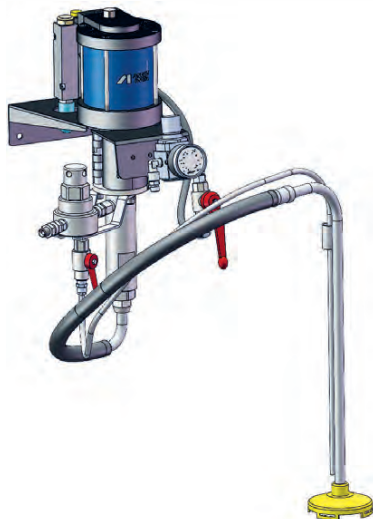
ICON A233N-H

Pump Unit mounted on CART with Gravity HOPPER SET
 Air Pressure Regulator
 Delivery Paint Filter unit TF-1S (100 mesh)
 Gravity Hopper set (6 lt.) with filter (50 mesh)
 Fluid Recirculation Hose
 Dimensions (LxWxH): 495 x 550 x 965 mm - Weight 16 Kg



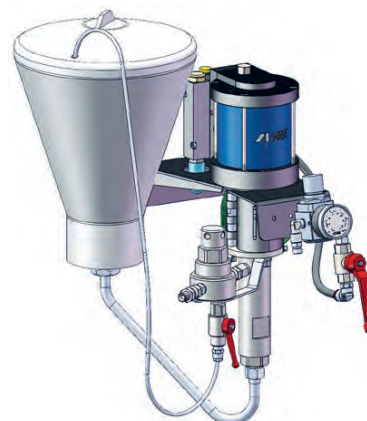
ICON A233N-SWM

Pump Unit mounted on WALL MOUNT with SUCTION HOSE SET
 Air Pressure Regulator
 Delivery Paint Filter unit TF-1S (100 mesh)
 Suction Hose set with filter (50 mesh)
 Fluid Recirculation Hose
 Dimensions (LxWxH): 380 x 320 x 515 mm - Weight 11Kg



ICON A233N-HWM

Pump Unit mounted on WALL MOUNT with HOPPER SET
 Air Pressure Regulator
 Delivery Paint Filter unit TF-1S (100 mesh)
 Gravity Hopper set (6 lt.) with filter (50 mesh)
 Fluid Recirculation Hose
 Dimensions (LxWxH): 380 x 420 x 515 mm - Weight 11Kg

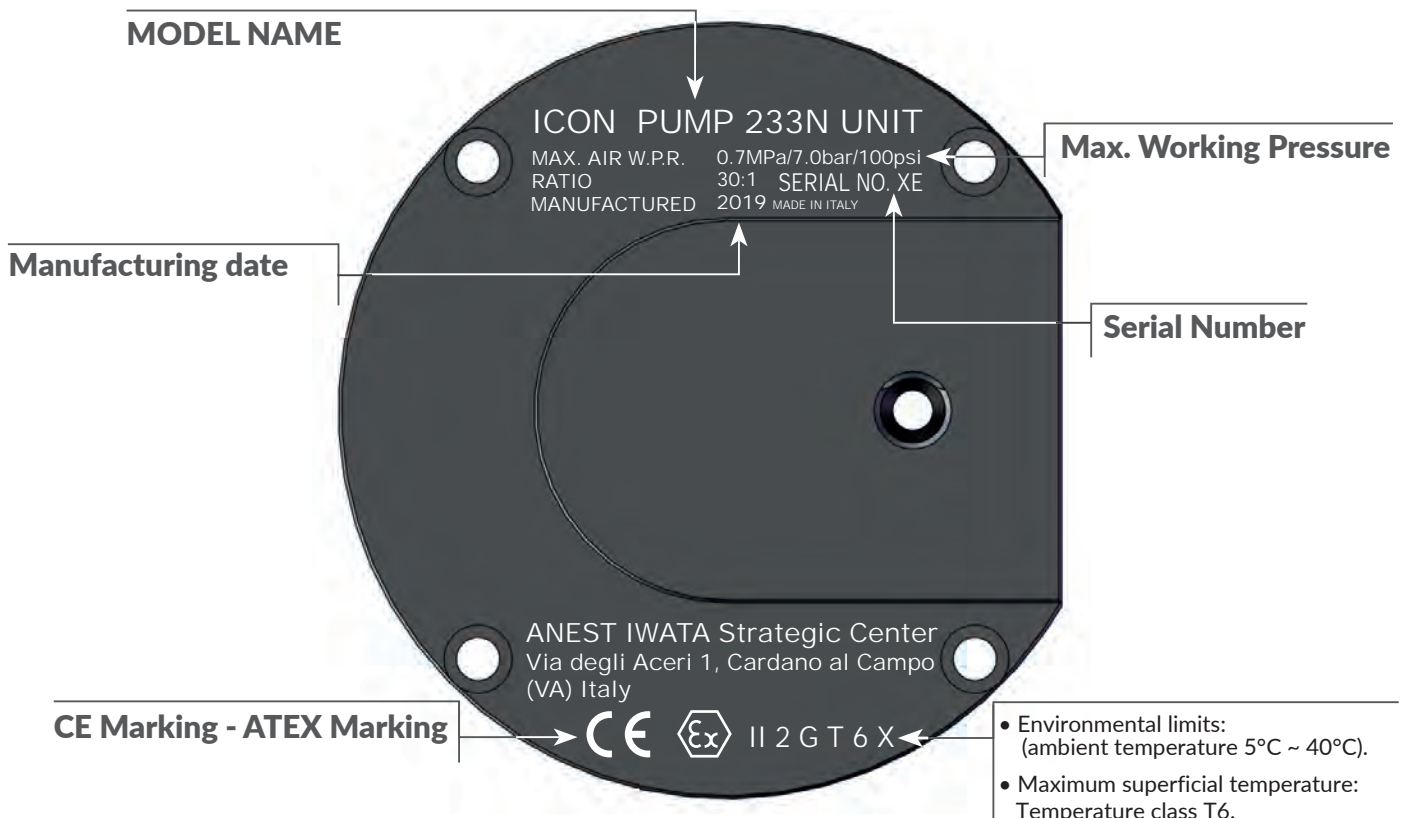


4. TECHNICAL DATA

VERSIONS		ICON-M233N	ICON-A233N
Plunger Pump:		PP-3025N	
Air Motor cylinder diameter:		100 mm	
Paint filter:	Paint delivery filter	TF-1S (100 Mesh)	
	Fluid suction filter	50 Mesh	
Max. fluid working pressure:		210 bar (21 MPa)	
Max. air inlet pressure:		7.0 bar (0.7 MPa)	
Pressure ratio:		30:1	
Working temperature:		5°~40° C	
Noise level:		84.7 dB(A)	
Air consumption		110 NI/min. at 30 cyc/min.	
Fluid output:	Max. fluid delivery	25 ml	
	Max. volume/min.	2.5 l/min.	
Max. No. of cycles per minute		100 cyc	
Wetted parts material:	Paint filter set	Body: AISI303 - Filter: AISI304/Polyamide	
	Suction hose set	Hose: Rubber - Pipe, Filter and Connection: AISI304	
	Fluid pump	Mainly: AISI303 - PE - PTFE	

5. PRODUCT IDENTIFICATION

PLATE DATA: The manufacturer's identification data are applied on Multi Spray and Airless Units (see picture below). They must not be delated at all, even if the equipment is resold. For any communication with the manufacturer always mention the serial number written on the pump itself.

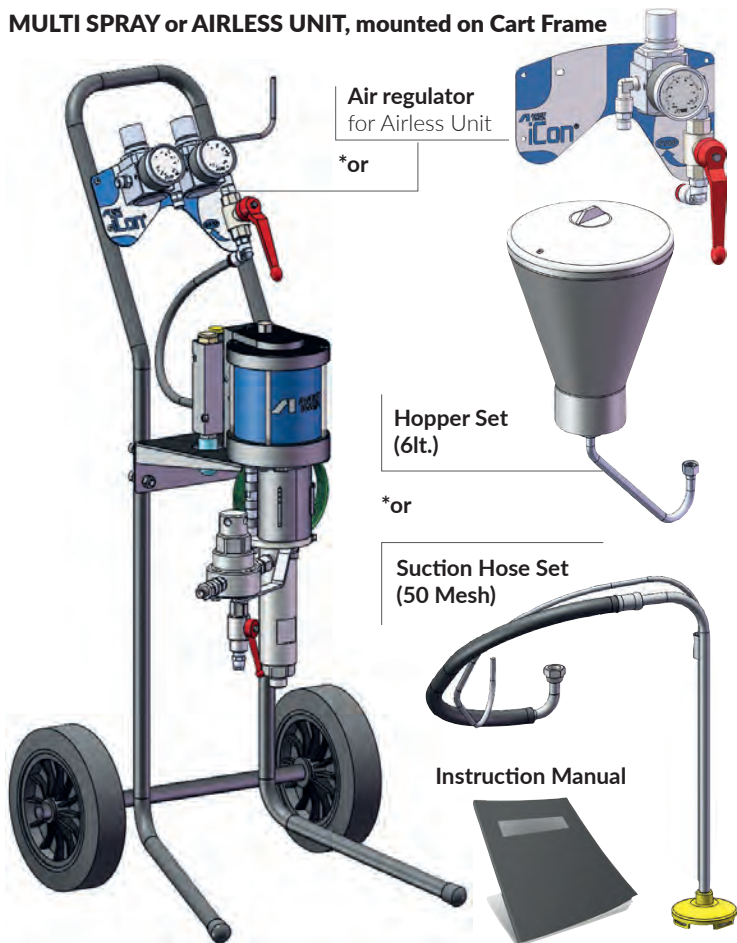


6. BOX CONTENT

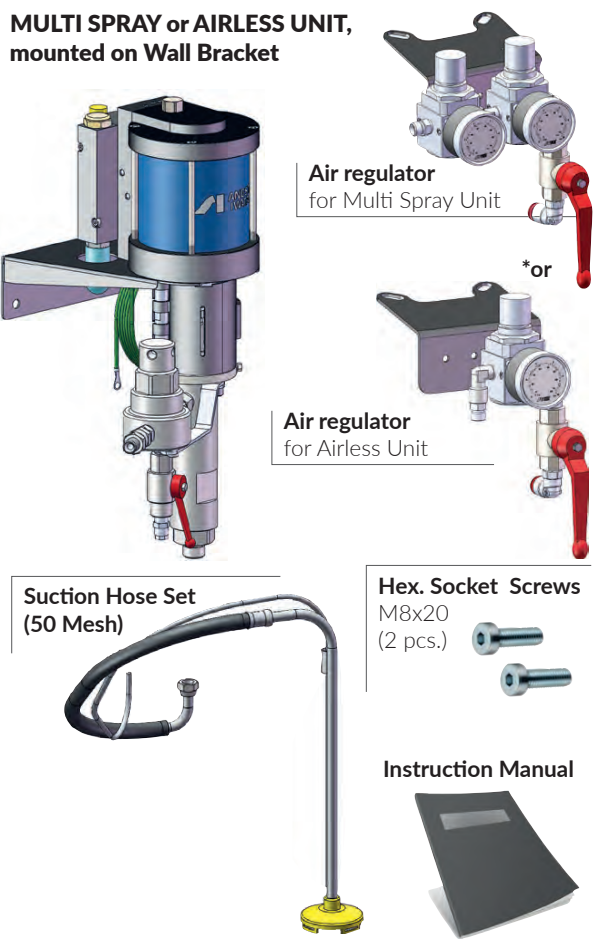


When receive and before using the Pump, make sure that it has not been damaged during transport or storage. Also check that all the following standard components are inside the packaging.

MULTI SPRAY or AIRLESS UNIT, mounted on Cart Frame



MULTI SPRAY or AIRLESS UNIT, mounted on Wall Bracket



6.1 TRANSPORT and HANDLING

To transport the equipment, only the systems described below can be used. In any case, make sure that the transport and lifting device can bear the weight of the equipment with its packaging.

WARNING

ALWAYS KEEP THE PACKAGING IN VERTICAL POSITION.



IT IS ADVISABLE THAT THE STAFF IN CHARGE OF HANDLING THE EQUIPMENT WEAR PROTECTIVE GLOVES AND SAFETY SHOES.

WHILE LIFTING OR HANDLING THE EQUIPMENT OR ANY OF ITS COMPONENTS CLEAR THE WORKING AREA. LEAVE ALSO A SUFFICIENT SAFETY AREA AROUND THE EQUIPMENT TO AVOID DAMAGING PEOPLE OR OBJECTS.

6.2 HANDLING and STORAGE

THE EQUIPMENT IS PUT INSIDE A CARDBOARD PACKAGING AND WRAPPED WITH SOME SHOCK-PROOF MATERIAL.

WARNING







TO HANDLE THE CARDBOARD PACKAGING USE A TROLLEY.



FOLLOW THE INSTRUCTIONS ON THE PACKAGING BEFORE HANDLING AND OPENING IT.

DURING TRANSPORT AND STORAGE MAKE SURE THE TEMPERATURES BETWEEN 0 AND 40°C ARE NOT EXCEEDED. IN CASE OF STORAGE, MAKE SURE THE EQUIPMENT IS NOT PUT IN PLACES WITH AN EXCESSIVE HUMIDITY.

7. INSTALLATION

 WARNING	SAFETY PRECAUTION
	TO ENSURE THE GOOD WORKING OF THE EQUIPMENT AND OF ITS SAFETY DEVICES, THE PUMP MUST BE INSTALLED BY A QUALIFIED STAFF.
	THE ORIGINAL CONFIGURATION OF THE EQUIPMENT MUST BE NOT CHANGED AT ALL.
	SECURELY GROUND PUMP, SPRAY GUN BY USING CONDUCTIVE FLUID HOSE AND GROUND WIRE SUPPLIED WITH EQUIPMENT.
	CHECK THE PROPER TIGHTENING OF ALL FITTINGS, SINCE THEIR SUDDEN OPENING CAN SERIOUSLY INJURE PEOPLE.
	CAREFULLY READ AND OBSERVE SAFETY WARNING OF THE INSTRUCTIONL OF THE SPRAY GUNS TO BE USED. ICON-M233N: MSGS-200 EVO / ICON-A233N: ALG7 TE
	BEFORE INSTALLATION SET THE AIR AND FLUID REGULATORS TO 0 bar.
	MOVING PARTS OF THE PUMP COULD CUT OFF THE FINGERS OR SERIOUSLY INJURE THE HUMAN BODY. DURING THE OPERATION IT IS ABSOLUTELY FORBIDDEN TO OPEN THE SAFETY GUARDS OR INTRODUCE THE FINGERS INSIDE.

7.1 INSTALLATION OF ICON-M233N

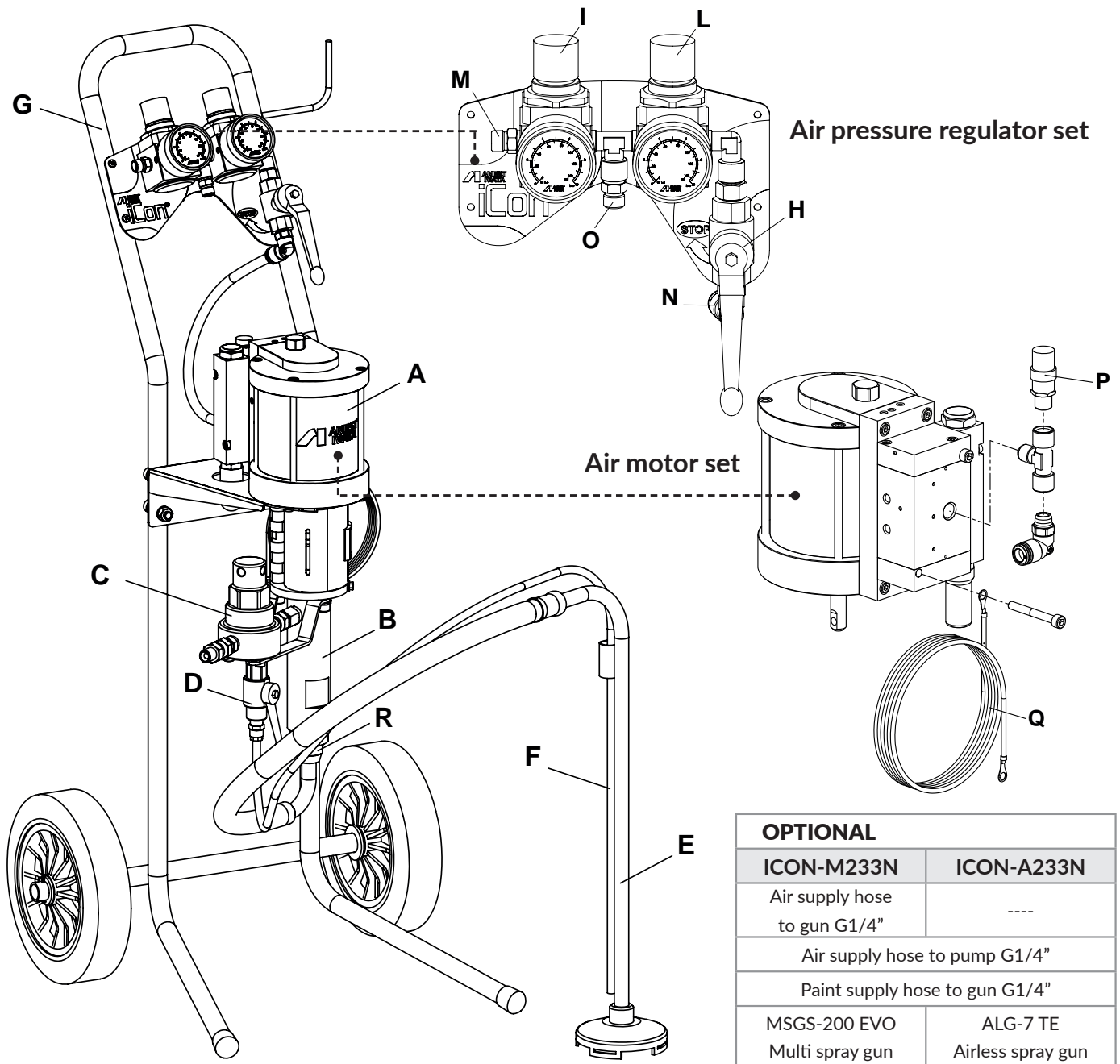
IMPORTANT: See next page for configuration parts list.

1. Place the equipment on a horizontal surface.
2. Firmly connect the suction hose (E) or the hopper to the paint inlet joint (R) and the drain hose (F) to the drain valve (D).
3. Connect the twin hose for paint & air, to the paint supply of delivery paint filter (C) and to the air supply of air regulator joint (M).
4. Properly connect the free end of the grounding wire (Q) to the ground.
5. Connect the other end of the air/paint twin hose to the spray gun inlet joints.
6. Connect the air supply hose to the air supply inlet joint (O).

7.2 INSTALLATION OF ICON-A233N

1. Place the equipment on a horizontal surface.
2. Firmly connect the suction hose set (E) to the paint inlet joint (R) and the drain hose (F) to the drain valve (D).
3. Connect the paint hose to the paint supply of delivery paint filter (C).
4. Properly connect the free end of the grounding wire (Q) to the ground.
5. Connect the other end of the paint hose to the spray gun inlet joint.
6. Connect the air supply hose to the air supply inlet joint (O).

7.3 UNIT CONFIGURATION



OPTIONAL	
ICON-M233N	ICON-A233N
Air supply hose to gun G1/4"	----
Air supply hose to pump G1/4"	
Paint supply hose to gun G1/4"	
MSG-200 EVO Multi spray gun	ALG-7 TE Airless spray gun

MAIN CONFIGURATION

A	Air motor	PLUNGER PUMP		I	Pressure regulator (for spray gun)
B	Fluid pump			L	Pressure regulator (for pump)
C	Paint delivery filter TF-1S (100 mesh)	M	Supply air nipple to spray gun		
D	Drain valve	N	Supply air nipple to pump		
E	Suction hose	50 Mesh	G1/2"	O	Air inlet
F	Drain hose 1.7 m - ø 6 x 8	P	Safety valve		
G	Cart set	Q	Ground wire 1.6 m		
H	Safety ball valve	R	Fluid inlet joint		

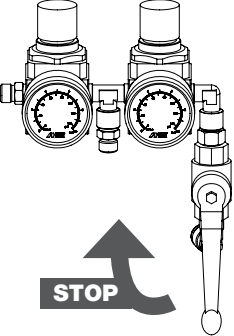

8. SAFETY SYSTEMS

Several safety systems have been conceived during the ICON Units design and manufacture to safeguard the operator, in compliance with EN 12621:2010 Directive about paint.

8.1 SAFETY VALVE


	<p>A 8 BAR CALIBRATED SAFETY VALVE IS INSTALLED TO ENSURE THE PUMP WORKING PRESSURE DOES NOT EXCEED THE LIMITS INSIDE THE FEEDING CIRCUIT.</p>
	<p>WARNING! DO NOT REMOVE THE VALVE PLASTIC PROTECTION. ANY TAMPERING WITH COULD BE DANGEROUS FOR THE OPERATOR AND COMPROMISE THE EQUIPMENT GOOD WORKING.</p>

8.2 SAFETY BALL VALVE


	<p>WARNING</p>	
	<p>IN CASE OF ANOMALIES DURING WORKING, TURN 90° THE BALL VALVE LEVER FOR EMERGENCY STOP. IN THIS WAY THE AIR SUPPLY WILL BE INTERRUPTED AND THE RESIDUAL PRESSURE INSIDE THE PUMP WILL BE RELEASED.</p>	

9. WORKABLE PRODUCTS

ANEST IWATA ICON PUMPS ARE CONCEIVED TO PAINT FERROUS MATERIAL IN GENERAL, WOOD AND PLASTIC.

<p>WARNING</p>	<p>TO USE THE EQUIPMENT WITH SPECIAL PRODUCTS ASK FOR THE APPROVAL OF THE MANUFACTURER.</p>
	<p>DO NOT USE:</p> <ul style="list-style-type: none"> - ANY HALOGENATED HYDROCARBON SOLVENTS, SUCH AS TRICHLOROETHANE, METHYLENE CHLORIDE OR SOMETHING LIKE THAT; - ANY TOXIC PRODUCTS SUCH AS PETROL, KEROSENE OR COMBUSTIBLE GASES; - ANY HERBICIDE OR PESTICIDE;- ANY RADIOACTIVE FLUID;

10. OPERATION

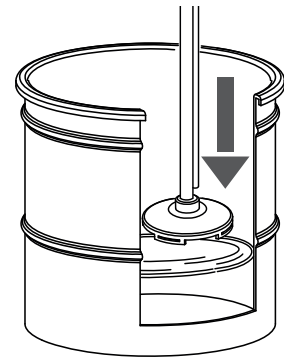
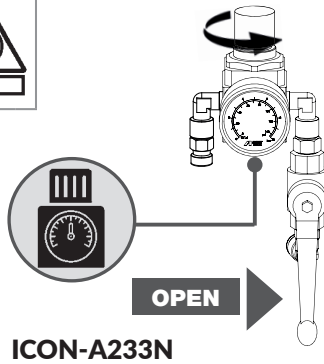
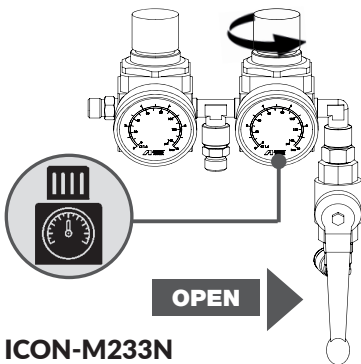
	<p>WARNING</p> <p>SECURELY GROUND PUMP, SPRAY GUN, WORKPIECE AND CONTAINERS CONTAINING CLEANING LIQUID USED DURING FLUSHING. USE ONLY CONDUCTIVE PAILS PLACED ON GROUNDED SITE.</p> <p>Insufficient grounding can cause fire and explosion due to the static electric sparking.</p>
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10.1 FLUSHING BEFORE USING

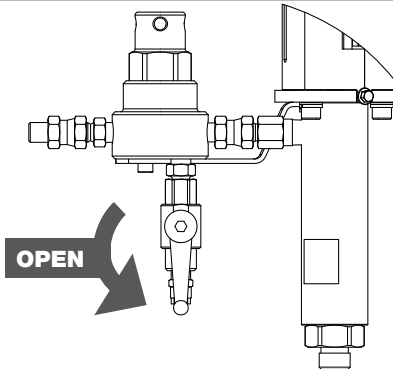


ATTENTION! THE PUMP MUST BE CLEANED BEFORE USING IT FOR THE FIRST TIME, AFTER WORKING AND AFTER ANY COLOUR CHANGE.

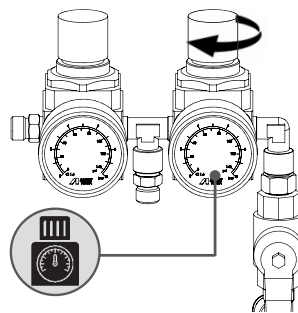
- 1** After installation (chapt. 7), before to supply air to the pump, confirm that the ball valve is open and the air regulator is adjusted to 0 bar. **2** Immerse the suction hose in the container, containing cleaning liquid.



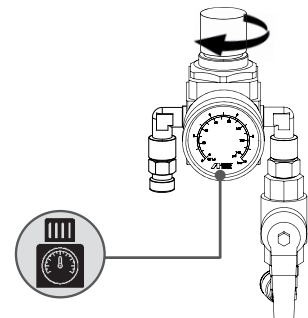
- 3** Open the drain valve for fluid recirculation. **4** Set the pressure regulator up slowly, to the minimum pressure required for the straight and alternate movement of the piston.



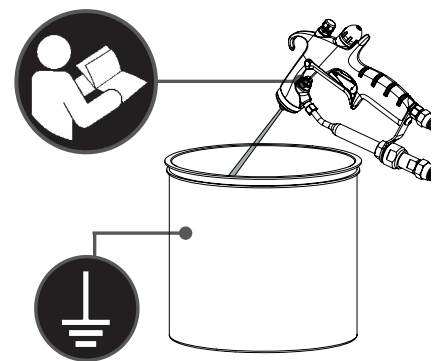
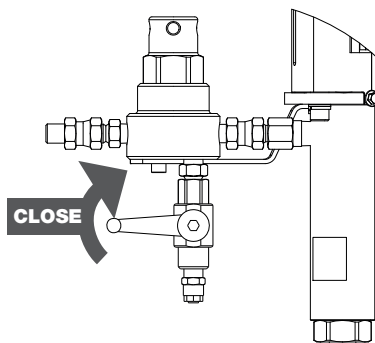
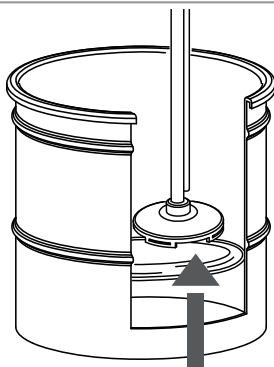
ICON-M233N



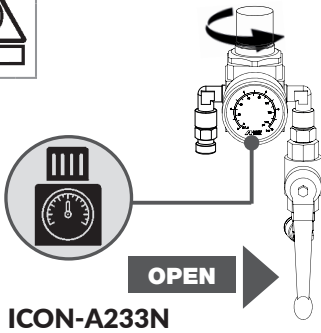
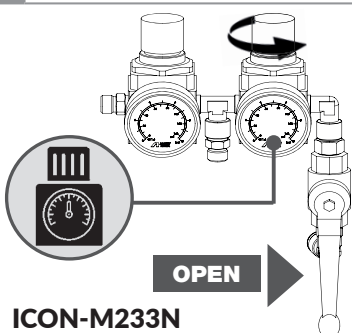
ICON-A233N



- 5** After flushing, discharge the used detergent through the drain hose, lifting the suction hose beyond the liquid level. **6** Close the drain valve. **7** Flow out the cleaning liquid from spray gun.



- 8** Reset the air regulator to 0 bar.



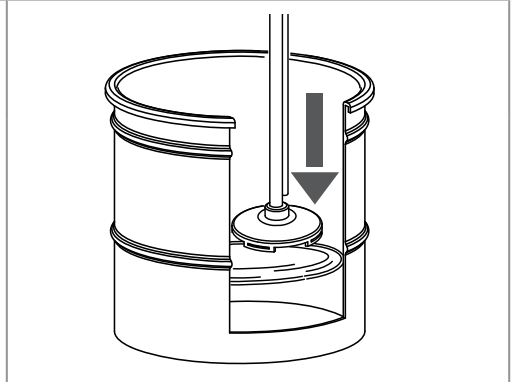
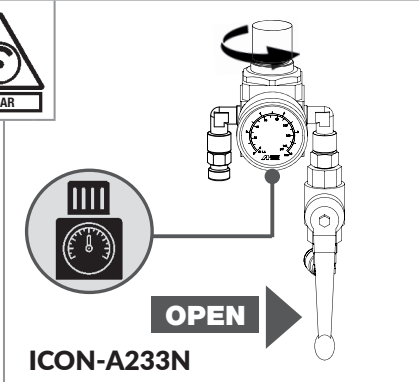
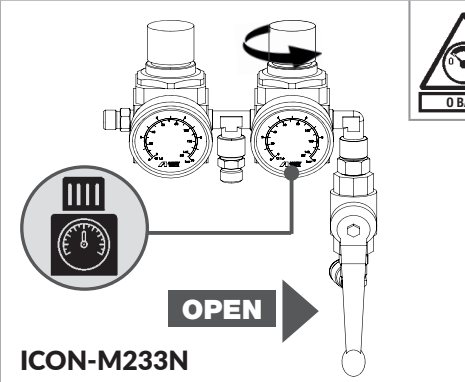
10.2 USE



IMPORTANT! BEFORE USE of the pump it is IMPORTANT TO READ CAREFULLY and observe the warnings and cautions contained in THE INSTRUCTION MANUAL OF THE GUN TO BE USE.
 MSGS-200 EVO (with Multi Spray Pump) or ALG-7 TE (with Airless Pump).

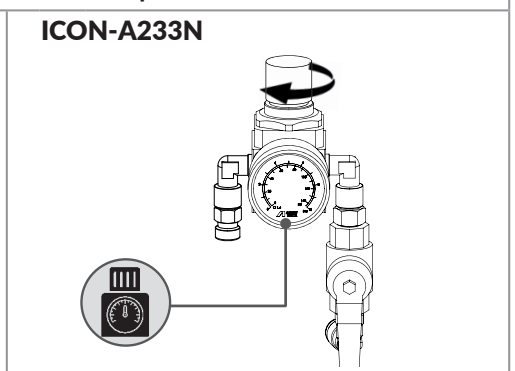
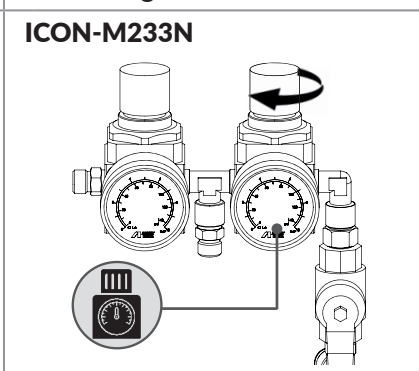
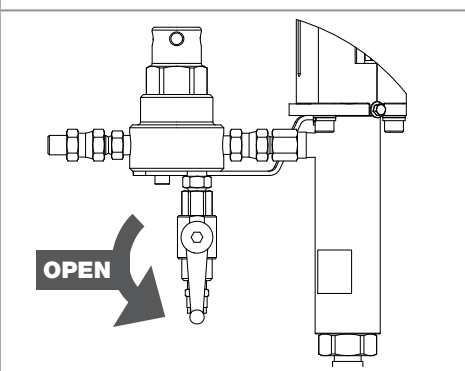
1 After Flushing (see 10.1), before to supply air to the pump, confirm that the ball valve is open and the air regulator is adjusted to 0 bar.

2 Immerse the suction hose in the container, containing paint.



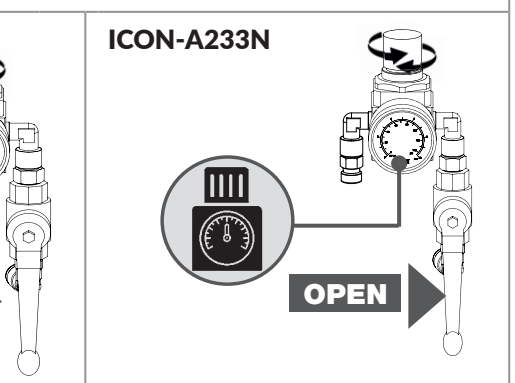
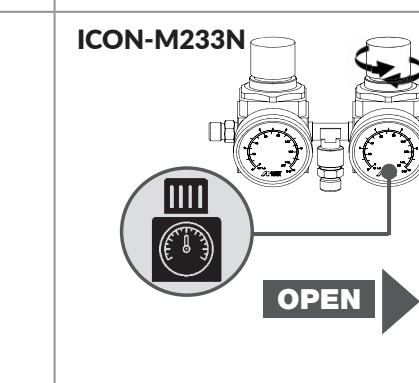
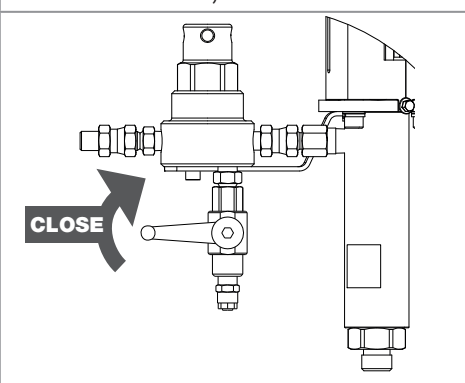
3 Open the drain valve for recirculation of fluid.

4 Set the pressure regulator up slowly, to the minimum pressure required for the straight and alternate movement of the piston.



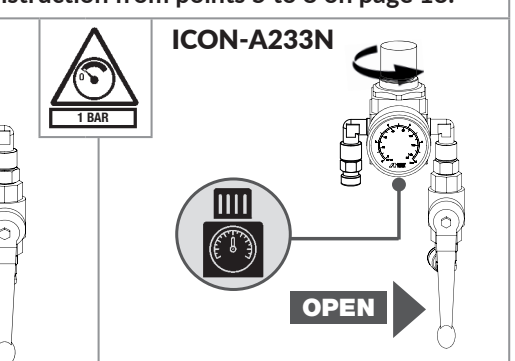
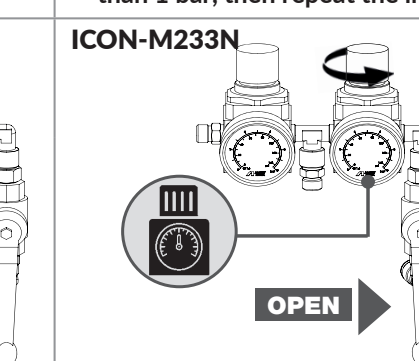
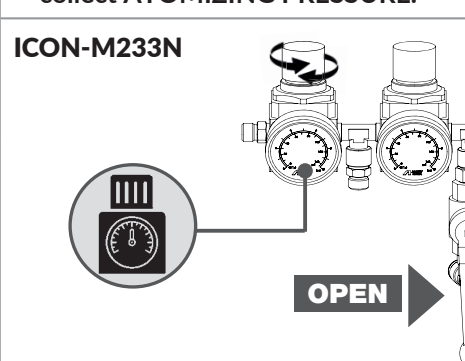
5 Ensure that the paint comes out from recirculation hose, then close the drain valve.

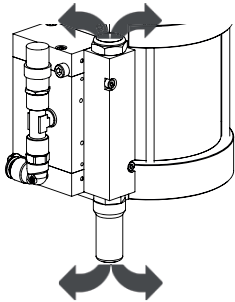

6 Adjust the air pressure regulator, to the collect **FLUID WORKING PRESSURE**.



7 Adjust the air pressure regulator to collect **ATOMIZING PRESSURE**.

8 When finished to spray, set the air pressure regulator of the pump at less than 1 bar, then repeat the instruction from points 5 to 8 on page 13.



WARNING!		
	<p>DURING OPERATION, THE PUMP RELEASES EXHAUST AIR FROM THE AIR MUFFLER. DO NOT TOUCH THE EXHAUST BLOCK, WHILE THE PUMP IS OPERATING.</p>	

10.3 INCREMENTAL FLUID PRESSURE

Model	RATIO	AIR REGULATOR SETTING	INCREMENTAL FLUID PRESSURE
ICON-M233N ICON-A233N	30:1	0.3MPa (3bar - 43.5psi)	9.0MPa (90bar - 1305psi)
		0.5MPa (5bar - 72.5psi)	15.0MPa (150bar - 2175psi)
		0.7MPa (7bar - 100psi)	21.0MPa (210bar - 3045psi)

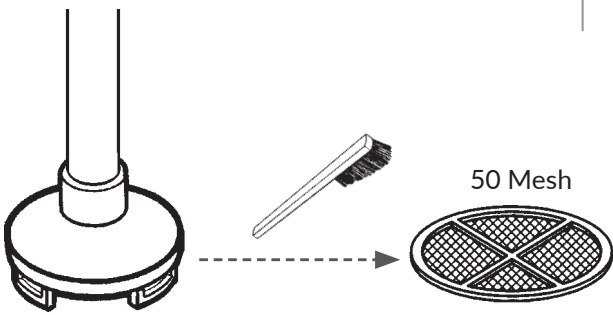
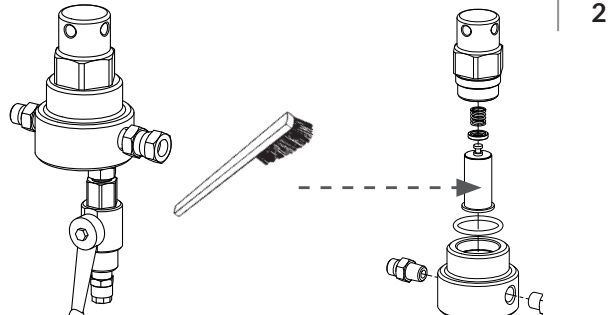
11. ORDINARY MAINTENANCE


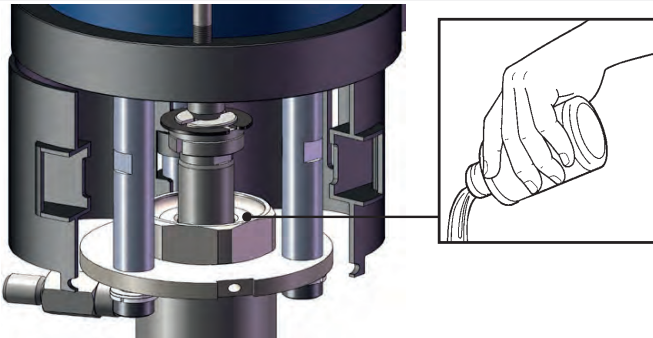
11.1 DAILY MAINTENANCE

- FLUSHING THE PUMP:** Clean the pump unit after working and after any color change.
- MAKE SURE THERE ARE NO PAINT OR AIR LEAKS:** Check that the hoses are not damaged and that all threaded connections are firmly tightened. Intervene immediately if you find any anomalies and replace it in case of damage.

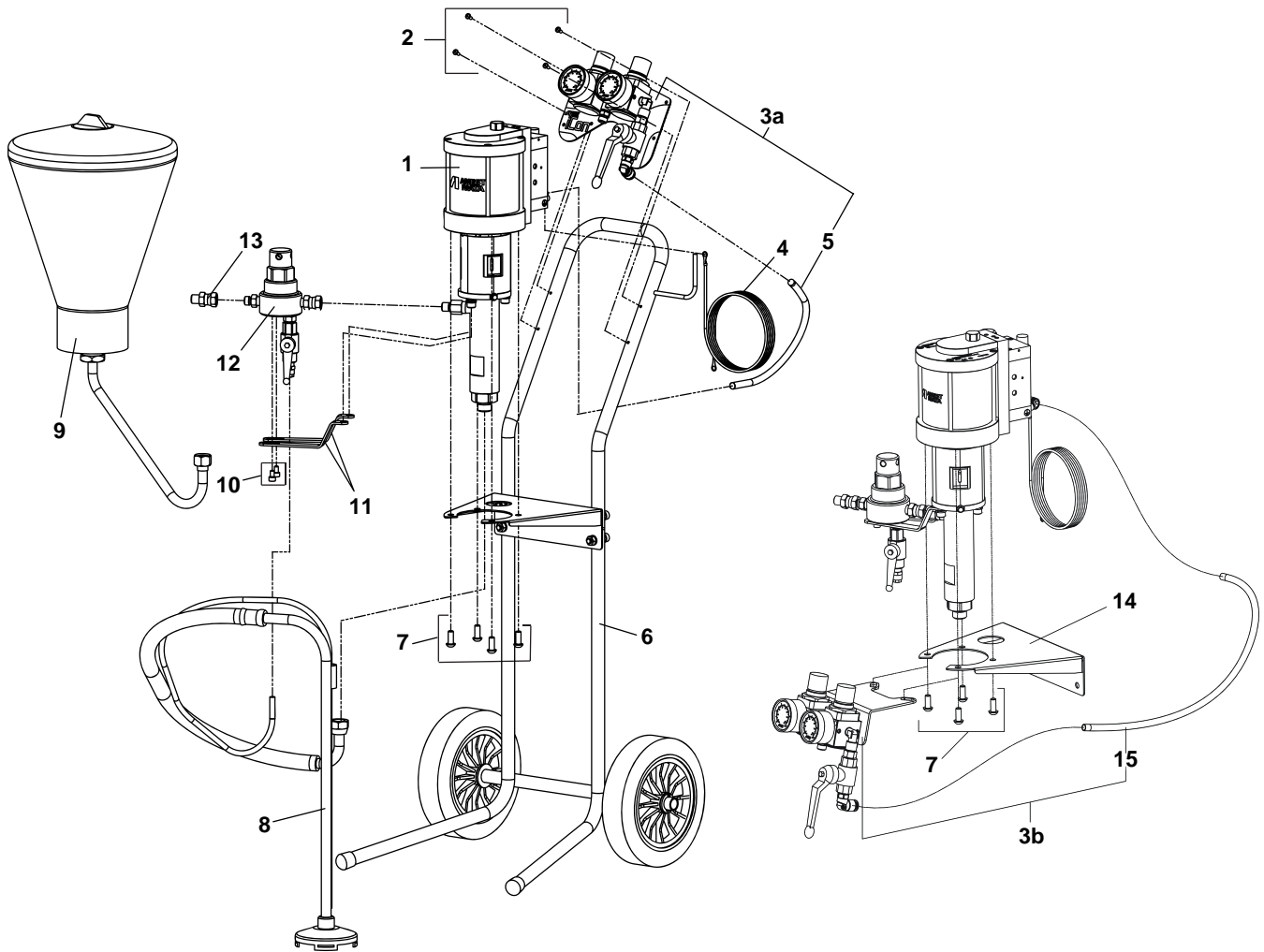
11.2 MONTHLY MAINTENANCE

- CHECK THE SUCTION HOSE FILTER:** Check about clogging or damaging of filter. Clean or replace it, if it is necessary.
- CHECK THE FILTER INSIDE THE DELIVERY PAINT FILTER TF-1S:** Check about clogging or damaging. Clean or replace it, if it is necessary.

	1		2
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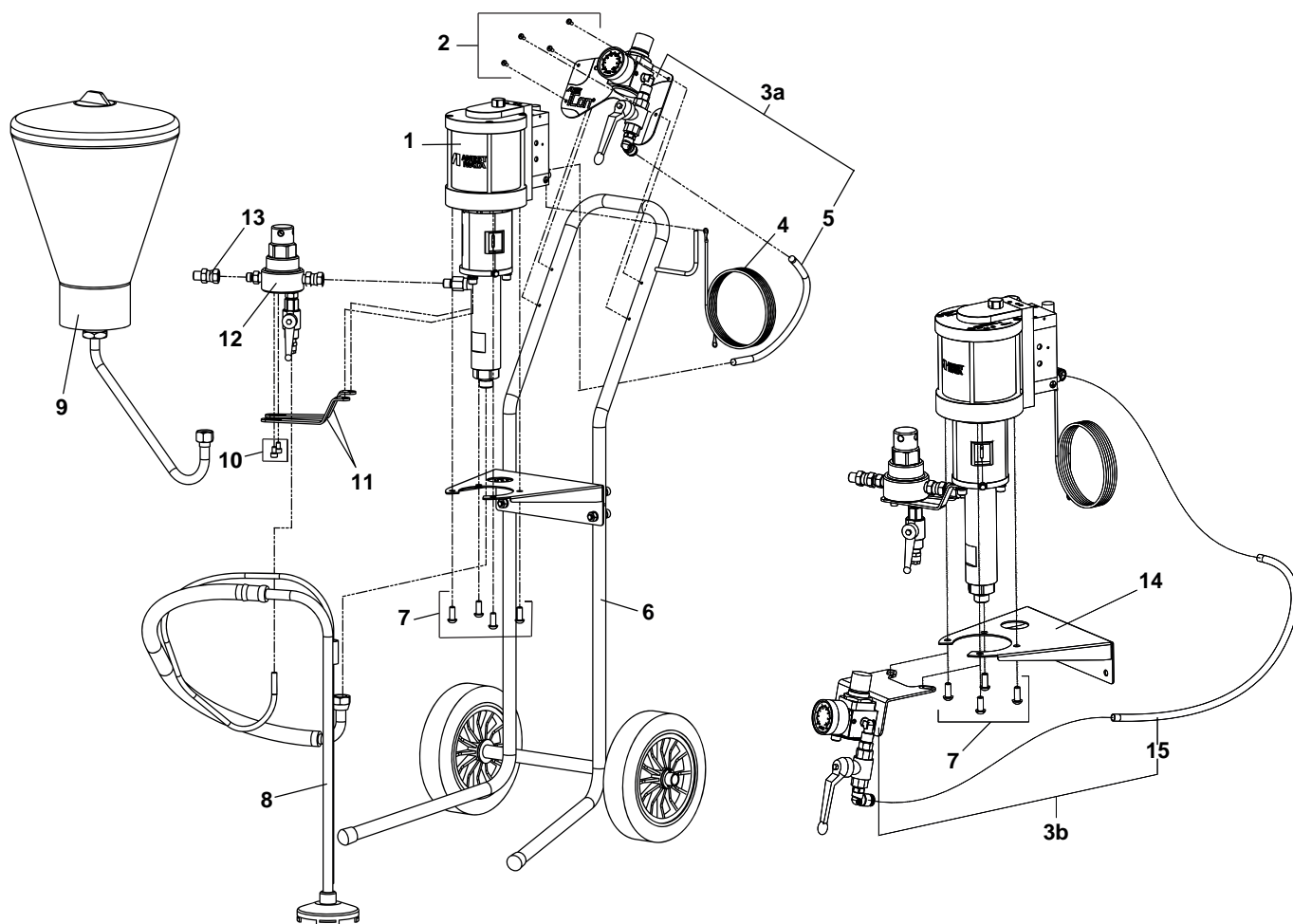
	ADVICE!	
<p>THE ICON X3 PUMP HAS BEEN DESIGNED TO WORK WITH PAINTS WITHOUT THE NEED FOR LUBRICANT. HOWEVER, IN CASE OF INTENSIVE USE, IT IS ADVISABLE TO ADD THE ANEST IWATA LUBRICANT (94445770 - NOT INCLUDED) INTO THE PACKING HOLDER TO EXTEND THE LIFE OF THE GASKETS.</p>		

12. EXPLODED VIEWS AND SPARE PARTS LIST Multi Spray version



Ref.	Code	Description
1	-	PLUNGER PUMP (PP-3025N)
2	94444790	SOCKET BUTTON HEAD SCREW (4 pcs)
3a	940188A0	AIR REGULATOR SET for CART FRAME version
3b	940189A0	AIR REGULATOR SET for WALL MOUNT version
4	ME100001	GROUND WIRE SET
5	940157A0	AIR HOSE 0,3 m (for Cart Frame Version)
6	940085A0	CART FRAME SET
7	960055A0	HEX. SOCKET BUTTON HEAD SCREW M8x20 SET (4 pcs)
8	0101010000	SUCTION HOSE SET
9	04005510	HOPPER SET 6 lt.
10	960056A0	HEX. SOCKET BOLT M6x10 SET (2 pcs)
11	940052A0	FILTER STAY
12	140002A0	DELIVERY PAINT FILTER SET TF-1S
13	94006030	ADAPTER G1/4" F - NPSM 1/4" M
14	940192A0	WALL MOUNT SUPPORT
15	940060A0	AIR HOSE 0,5 m (for Wall Mount Version)

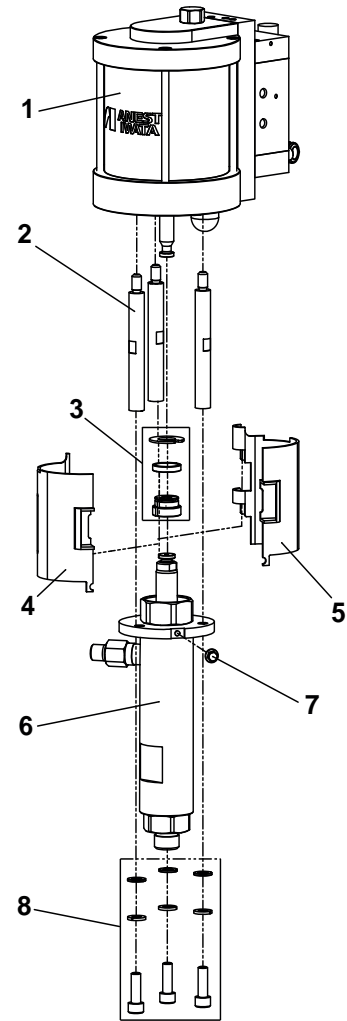
12. EXPLODED VIEWS AND SPARE PARTS LIST Airless version



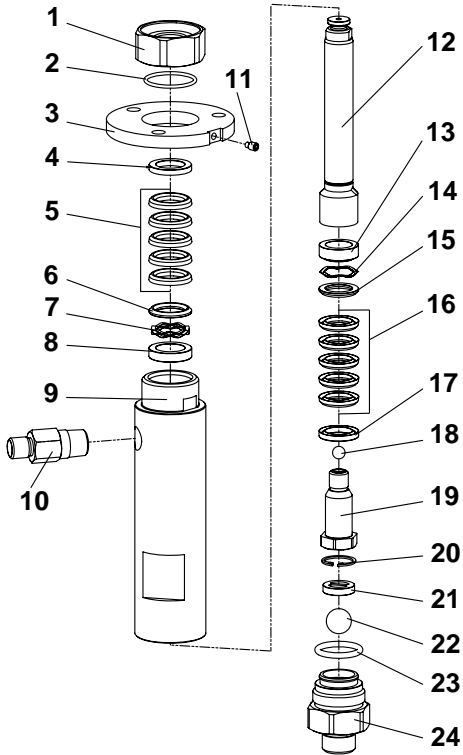
Ref.	Code	Description
1	-	PLUNGER PUMP (PP-3025N)
2	94444790	SOCKET BUTTON HEAD SCREW (4 pcs)
3a	940190A0	AIR REGULATOR SET for CART FRAME version
3b	940191A0	AIR REGULATOR SET for WALL MOUNT version
4	ME100001	GROUND WIRE SET
5	940157A0	AIR HOSE 0,3 m (for Cart Frame Version)
6	940085A0	CART FRAME SET
7	960055A0	HEX. SOCKET BUTTON HEAD SCREW M8x20 SET (4 pcs)
8	0101010000	SUCTION HOSE SET
9	04005510	HOPPER SET 6 lt.
10	960056A0	HEX. SOCKET BOLT M6x10 SET (2 pcs)
11	940052A0	FILTER STAY
12	140002A0	DELIVERY PAINT FILTER SET TF-1S
13	94006030	ADAPTER G1/4"F - NPSM 1/4"M
14	940192A0	WALL MOUNT SUPPORT
15	940060A0	AIR HOSE 0,5 m (for Wall Mount Version)

12.1 PLUNGER PUMP SET

Ref.	Code	Description
1	940000A0	AIR MOTOR
2	940036A0	CONNECTING ROD
3	940193A0	COUPLING KIT
4	940093A0	ROD COVER LEFT
5	940094A0	ROD COVER RIGHT
6	940014A0	FLUID PUMP SET
7	960047A0	HEX. SOCKET FLANGE BOLT M5x12
8	940170A0	SCREWS & WASHERS SET (3+3+3 pcs.)



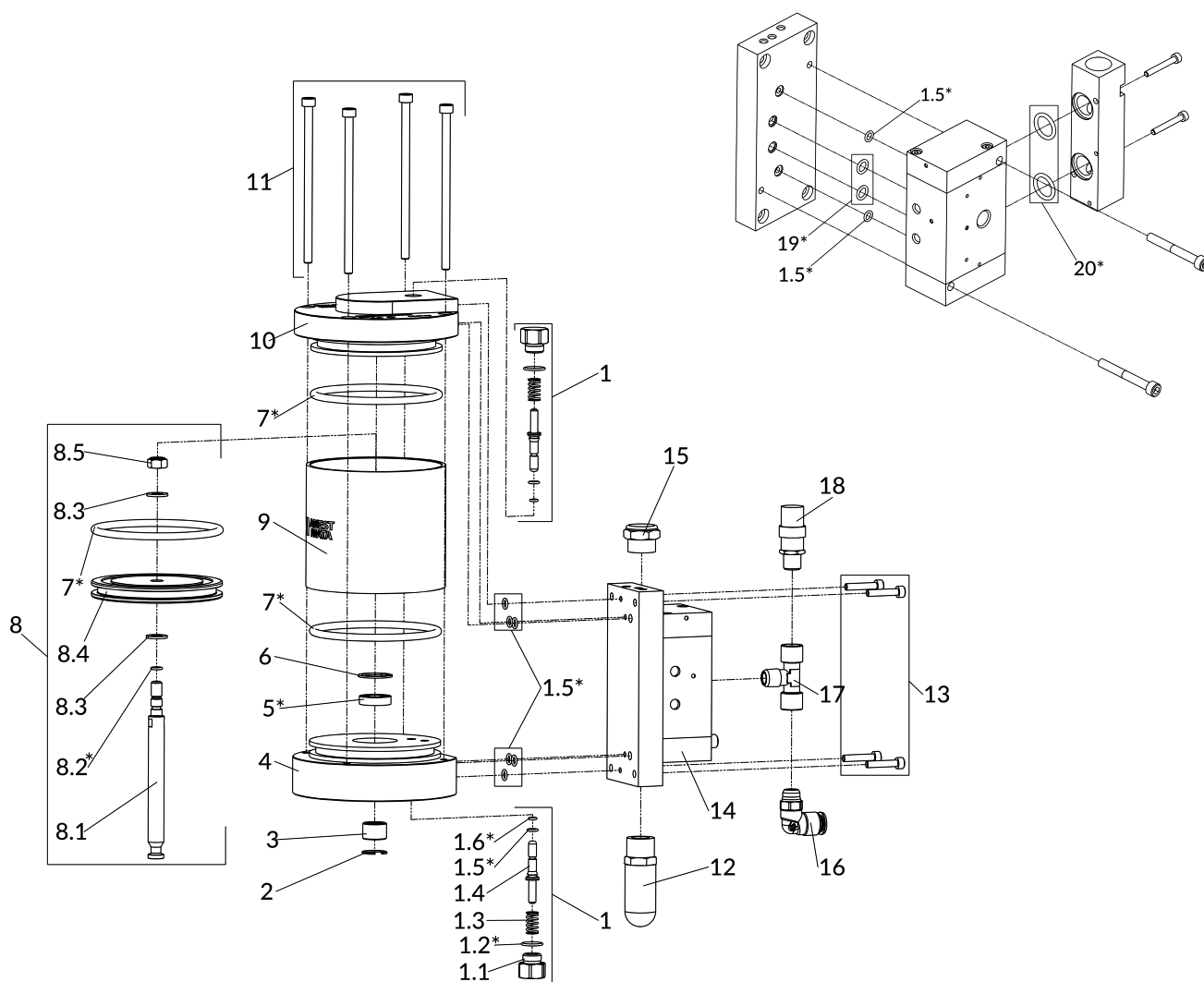
12.2 FLUID PUMP SET



Ref.	Code	Description
1	940031A0	PACKING HOLDER
2	960011A0	O-RING 2.0-29.5
3	940112A0	FLANGE
4	940126A0	V-PACKING FEMALE ADAPTOR (UPPER)
5	940069A0	V-PACKING SET (UPPER) (3 PE + 2 PTFE)
6	940123A0	V-PACKING MALE ADAPTOR (UPPER)
7	940122A0	MULTI WAVE SPRING
8	940121A0	SPRING HOLDER (UPPER)

Ref.	Code	Description
9	940015A0	SUCTION TUBE
10	940032A0	FLUID OUTPUT JOINT
11	960040A0	PLUG
12	940166A0	SUCTION ROD
13	940127A0	SPRING HOLDER (LOWER)
14	940128A0	NESTED SPRING
15	940129A0	V-PACKING MALE ADAPTOR (LOWER)
16	940070A0	V-PACKING SET (LOWER) (3 PE + 2 PTFE)
17	940132A0	V-PACKING FEMALE ADAPTOR (LOWER)
18	06662025	BALL 5/16"
19	940021A0	VALVE HOLDER
20	960014A0	SEEGER 20
21	04944770	VALVE HOLDER PACKING
22	06662050	BALL 5/8"
23	960015A0	O-RING 3.53-23.39
24	940033A0	VALVE ADAPTOR

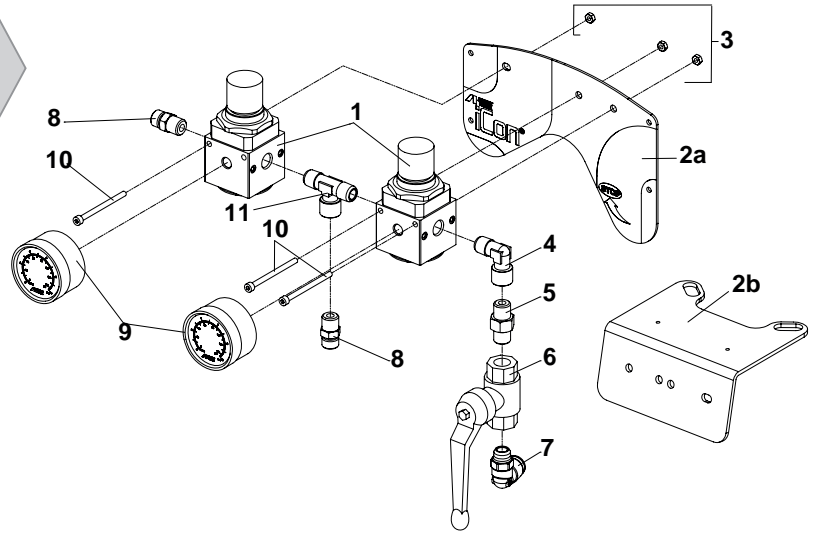
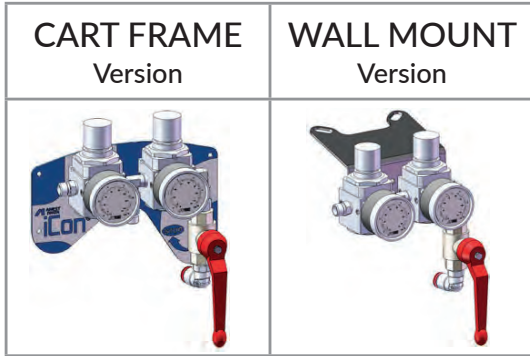
12.3 AIR MOTOR SET



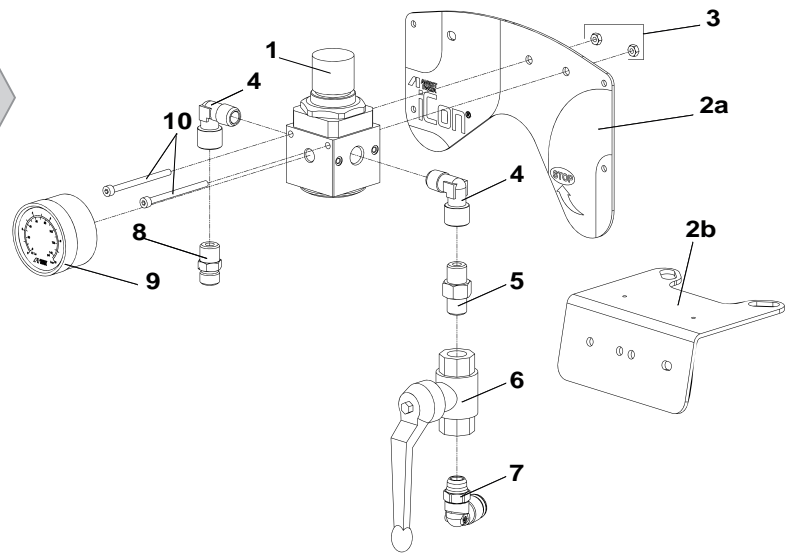
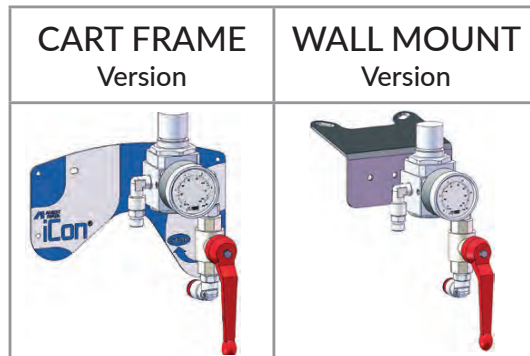
Ref.	Code	Description	Ref.	Code	Description
1	940073A0	PILOT VALVE SET	8.3	06363080	WASHER
1.1	940007A0	PILOT VALVE CAP	8.4	940004A0	AIR PISTON
1.2*	96997009	O-RING \varnothing 1.5-13.5	8.5	960003A0	SELF LOCKING HEX. NUT
1.3	940006A0	PILOT VALVE SPRING	9	940008A0	CYLINDER
1.4	940005A0	PILOT VALVE SHAFT	10	940010A0	HEAD MODULE
1.5*	96997003	O-RING \varnothing 1,5-5.5	11	960006A0	HEX. SOCKET BOLT M6x120 (4 pcs.)
1.6*	96997012	O-RING \varnothing 1.5-3.5	12	960010A0	MUFFLER
2	960000A0	SEEGER 18	13	96350525	HEX. SOCKET BOLT M5x25 (4 pcs.)
3	940002A0	METAL	14	940174A0	AIR OPERATING VALVE
4	940001A0	BOTTOM MODULE	15	04447820	EXHAUST FILTER
5*	960001A0	U-PACKING	16	UL300309	ELBOW UNION
6	960002A0	SEEGER 24	17	UL30030000	T-JOINT
7*	960004A0	O-RING \varnothing 5.33-89.69	18	UL30036000	SAFETY VALVE
8	940065A0	PISTON ROD SET	19*	060031A0	O-RING \varnothing 1.78 - 7.65
8.1	940159A0	PISTON ROD	20*	060008A0	O-RING \varnothing 2.62 - 15.54
8.2*	960052A0	O-RING \varnothing 1.5-6	(*)	940072A0	O-RING SET FOR AIR MOTOR & AIR OPERATING VALVE

12.4 AIR REGULATOR SET

AIR REGULATOR SET for Multi Spray Units



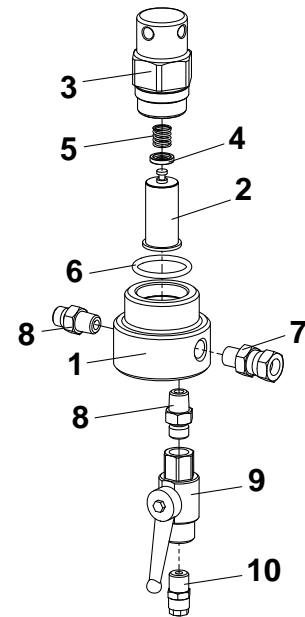
AIR REGULATOR SET for Airless Units



Ref.	Code	Description	Q.ty	
			M233N	A233N
1	UI00070001	AIR REGULATOR	2	1
2a	940156A0	PANEL (for Cart Frame Version)	1	1
2b	UL00005201	PLATE FOR AIR REGULATOR (for Wall Mount Version)	1	1
3	UL300700	HEX. NUT M4	3	2
4	UL300201	L-JOINT	1	2
5	UL300101	NIPPLE	1	1
6	UL30034901	BALL VALVE WITH EXHAUST HOLE	1	1
7	UL300309	ELBOW UNION	1	1
8	UL30010501	SPECIAL NIPPLE R1/4" - G1/4"	2	1
9	02004003	PRESSURE GAUGE (bar - psi)	2	1
10	06350455	BOLT WITH HEX. HOLE M4x55	3	2
11	UL300303	T-JOINT	1	0

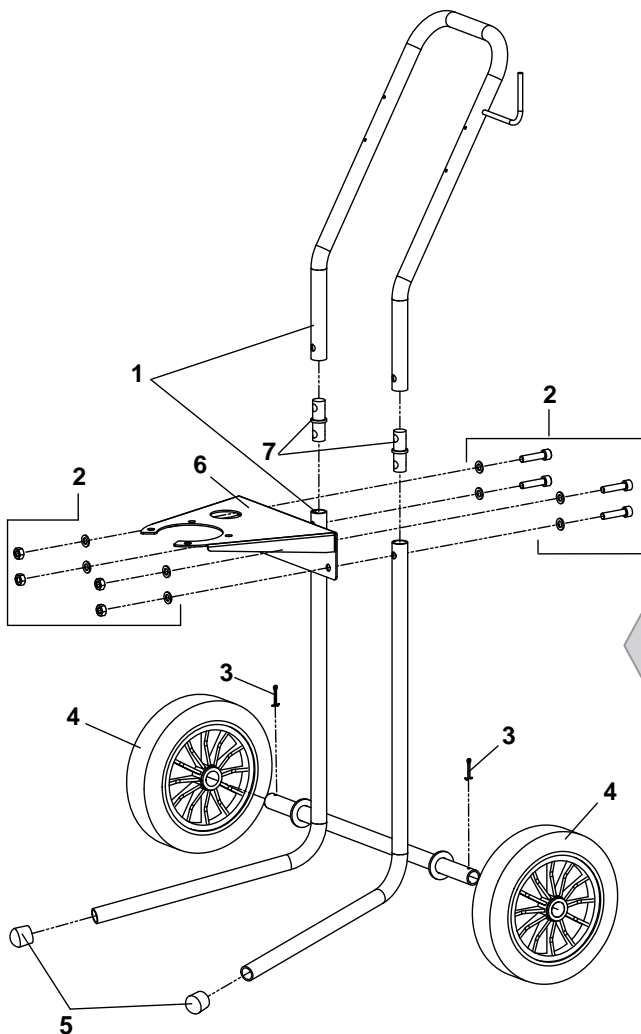
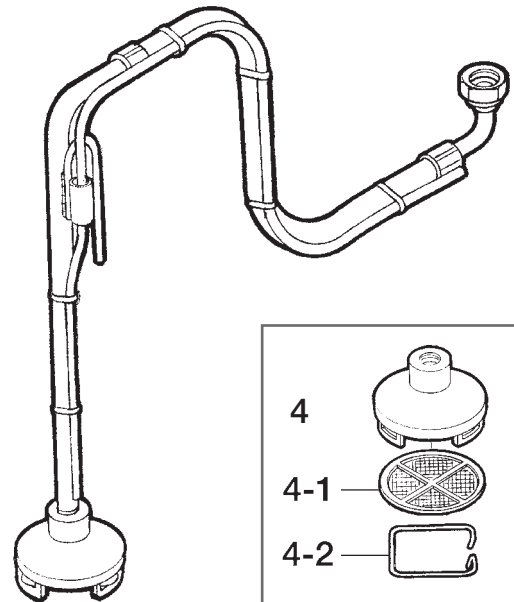
12.5 DELIVERY PAINT FILTER TF-1S

Ref.	Code	Description
1	940053A0	FILTER BODY
2	VFM2704	FILTER 100 MESH
3	940054A0	CYLINDER
4	940055A0	SPRING HOLDER
5	940056A0	FILTER SPRING
6	960021A0	O-RING 3.53-32.92
7	96859022	SWIVEL JOINT R1/4" M - G1/4" F
8	UL300462	JOINT G1/4" - R1/4"
9	UL30090100	DRAIN VALVE
10	UL300302	HOSE JOINT



12.6 SUCTION HOSE SET

Ref.	Code	Description
4	UL10000701	COMPLETE COVER SET
4-1	0040720100	FILTER 50 MESH
4-2	00407203	FILTER STOPPER



12.7 CART FRAME SET

Ref.	Code	Description
1	940113A0	CART FRAME STRUCTURE
2	940169A0	SCREWS, NUTS & WASHER SET (4+4+8 pcs.)
3	UL300811	SPLIT PIN
4	UL200001	WHEEL
5	960019A0	RUBBER CAP
6	940192A0	WALL MOUNT SUPPORT
7	940089A0	CONNECTION ELEMENT

13. TROUBLE SHOOTING

INCONVENIENCE		CAUSE		CHECK		SOLUTION	
1	The air pressure does not increase	a	The ball valve is not in the proper position.	a	Make sure the ball valve is in the proper position.	a	Adjust the ball valve in the proper position.
		b	The air regulator is not open.	b	Check the proper functioning of the air regulator.	b	If it is closed, open it. If it is damaged, replace it.
		c	Insufficient air pressure.	c	Check the proper functioning of the manometer of pressure gauge.	c	If the compressor does not supply enough air pressure, replace it with one of greater capacity.
2	The paint does not flow out of the gun	a	Clogged paint filter or paint circuit.	a	Opening the drain valve, the paint does not flow out.	a	The paint circuit is obstructed from the pump inlet to the fluid pipe fitting. Check for the obstructed point and remove the clogging materials from circuit.
				a1	Opening the drain valve, the paint flows out regularly, but not when pulling the gun trigger.	a1	The paint course, from fluid hose fitting to the gun nozzle, is blocked. Check for the obstructed point and remove the clogging; this inconvenience is usually caused by the obstruction of the gun filter. *Refer to the instruction manual of spray gun.
		b	Clogged nozzle.	b	Remove the nozzle and pull the trigger of the gun. If the paint flows out it means that the nozzle is clogged.	b	Refer to the instruction manual of spray gun, about troubleshooting reference.
		c	Jammed safety stop.			c	Unlock the safety valve.
3	The pump does not work	a	The air does not supply the pump.	a	Check the air supply hose.	a	Replace it if spoilt or clogged.
		b	The pump has a technical problem.	b	Separate the air motor from the pumping group and test it using a different air supply hose.	b	If the motor is running properly, follow the instructions provided in the solution column, point 2 (a-b).
						c	If the motor is not running properly, disassemble the cylinder and inspect it. In case of special anomalies, ship it to our Customer Care Technical Service.
4	The pump does not stop.	a	Some air got inside the paint ducts.	a	Make sure the dip tube is properly connected.	a	Tighten suction hose fitting.

13. TROUBLE SHOOTING

INCONVENIENCE		CAUSE		CHECK		SOLUTION	
4	The pump does not stop	b	Some air remains inside the paint ducts.	b	Make sure the paint is in good condition and that the suction hose set is fully immersed in the product to be pumped.	b	If the paint is in standard condition increase its level at least until it fully covers the suction hose set. Then, carry out the start-up operations relative to the release of air from the paint ducts.
		c	Seats and balls (inside the fluid pump) are dirty or damaged.	c	Disassemble the fluid pump and check the seat and ball conditions.	c	Clean them if they are enclosed with solidified paint residues. Otherwise, if they are irreparably worn out, replace them.
		d	The V-packings (inside the fluid pump) are dirty or damaged.	d	Disassemble the fluid pump and check the V-packings conditions.	d	Clean them if they are enclosed with solidified paint residues. Otherwise, if they are irreparably worn out, replace them.
		e	Leakage from the paint ducts.	e	Inspect all the paint ducts.	e	If any leakage is found, see to its fixing.
		f	The drain valve is not closed.			f	Close the drain valve.
5	The spray-fan size keeps changing	a	The V-packings (inside the fluid pump) are dirty or damaged.	a	Disassemble the fluid pump and check the V-packings conditions.	a	Clean them if they are enclosed with solidified paint residues. Otherwise, if they are irreparably worn out, replace them.
		b	Seat and ball (inside the fluid pump) are dirty or damaged.	b	Disassemble the fluid pump and check the seat and ball conditions.	b	Clean them if they are enclosed with solidified paint residues. Otherwise, if they are irreparably worn out, replace them.
		c	Spray gun nozzle, worn out.			c	Replace it.
		d	Paint filter of paint circuit clogged.			d	Refer to (2 - a).
6	The indicator of pressure gauge indicates the presence of pressure even though the air regulator is closed.	a	Damaged air regulator.			a	Replace it.



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