

GRAVITY

SPRAYGUNS SERIES

designed by
pininfarina



Car Refinish

**ANEST
IWATA**

SPECIALIZED
COATING SYSTEMS



- **WS400**
SERIES2

- **LS400**
SERIES2

- **dPSI**

DIGITAL
PRESSURE GAUGE

EN IT FR ES PT DE SV PL

USE &
MAINTENANCE
INSTRUCTION
MANUAL

UK

CE

EX

ERC





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DESCRIPTION OF THE PRODUCT

ANEST IWATA spray guns are tools designed according the most innovative Spray Painting Technologies for the atomization and application of paints of all types utilizing compressed air. The different models of WS-400 and LS-400 Series2 Premium Spray guns available satisfy the demands of the application in the Automotive sector.

1. IMPORTANT INFORMATION



This instruction manual is an integral part of gravity spray gun and must to be read carefully before starting ANY ACTIVITY involving the use, adjustment and maintenance of the equipment, 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.

2. SAFETY SYMBOLS

ALWAYS OBSERVE WARNINGS AND CAUTIONS IN THIS MANUAL

SYMBOL	WARNING	HAZARD LEVEL	CONSEQUENCE
	WARNING	POTENTIALLY HAZARDOUS SITUATION	DEATH OR SERIOUS INJURY
	CAUTION		MINOR TO MODERATE INJURY
	IMPORTANT		PROPERTY DAMAGE

3. COMPLIANCE TO STANDARD OF SPRAY GUN

ANEST IWATA Spray Guns comply with 2014/34/EU Directive relating to equipment and protective systems intended for use in explosive potentially atmospheres.

COMPLETE COMPLIANCE MARKING: UK CA CE II 2 G Ex h IIB T6 Gb X +5°C ≤ Ta ≤ +40°C

ABBREVIATE MARKING ON THE SPRAY GUN: UK CA CE II 2 G Ex h X

4. COMPLIANCE TO STANDARD OF DIGITAL PRESSURE GAUGE DPG-1

The DIGITAL PRESSURE GAUGE DPG-1

is developed, designed and produced in compliance with 2014/34/EU Directive relating to equipment and protective systems intended for use in explosive potentially atmospheres.

It has been classified according to:

CE 2809 Ex II 2 G Ex ib IIB T4 Gb +5°C ≤ Ta ≤ +40°C
Cert. No: FM19ATEX0002X

UK CA 1725 Ex II 2 G Ex ib IIB T4 Gb +5°C ≤ Ta ≤ +40°C
Cert. No: FM21UKEX0097X



I.S. CL I, DIV 1, GPS CD.
I.S. CL I, ZN 1, AEx/Ex ib IIB T4
Cert. No USA: FM19US0006X - Canada: FM19CA0003X



Ex ib IIB T4 Gb
Cert. No: IECEx FMG 19.0024X

5. TECHNICAL SPECIFICATIONS

Max. working pressure:	10.0 bar (145 PSI)	Air Connection:	G1/4" M
WS-400 Compliant max. Pressure	2.0 bar (29 PSI)	Fluid Connection:	G1/4" F
LS-400 HVLP max. Pressure	1.8 bar (26 PSI)	DIGITAL PRESSURE GAUGE SPECIFICATIONS	
Weight g (lbs): (without cup)	465 (1.03)	Lithium Cell:	SONY or MURATA CR1632
Noise level (LAeqT)*:	83.5 dB(A) at max. pressure	Nominal Voltage:	3 Volt
* Measuring point: 1m backwards from gun, 1.6 m height.		Rated Capacity:	140 mAh
Max. Temperature range:	Atmosphere 5 ~ 40 °C / Air-Fluid 5 ~ 43 °C		

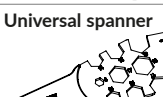
6. TECHNICAL DATA

MODEL	Nozzle Orifice (mm)	Air cap set Mark	Atomizing air pressure* bar (PSI/Mpa)	Air pressure inside air cap bar (PSI/Mpa)	Air Consumption l/min (cfm)	Fluid output ml/min	Pattern width** mm (in)
WS-400 BASE							
WS-400-OBS.0	OBS-0	WS-400-02-OBS	2.0 (29 / 0.20)	-	370 (13.1)	210	255 (10.0)
WS-400-OBS	OBS					215	255 (10.0)
WS-400-OBS.1	OBS+1					235	260 (10.2)
WS-400-BFS	BF-S	WS-400-03-BF				245	250 (9.8)
WS-400 CLEAR							
WS-400-12H03	12HD	WS-400-03	2.0 (29 / 0.20)	-	370 (13.1)	220	245 (9.6)
WS-400-13H03	13HD					245	250 (9.8)
WS-400-14H03	14HD					260	255 (10.0)
WS-400-15H03	15HD					280	260 (10.2)
LS-400 ET							
LS-400-1206	12ET	LS-400-06	1.8 (26 / 0.18)	0.7 (10 / 0.07)	400 (14.1)	165	230 (9.1)
LS-400-1306	13ET					175	235 (9.3)
LS-400-1406	14ET					185	240 (9.4)
LS-400-1506	15ET					190	245 (9.6)
LS-400 ETS							
LS-400-12S06	12ETS	LS-400-06	1.8 (26 / 0.18)	0.7 (10 / 0.07)	420 (14.8)	160	200 (7.9)
LS-400-13S06	13ETS					170	205 (8.1)
LS-400-14S06	14ETS					185	210 (8.3)
LS-400-15S06	15ETS					195	215 (8.5)
*Atomizing air pressure means air pressure at spray gun inlet when trigger is pulled and air flows							
**Spray distance at 150mm							

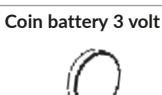
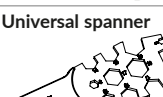
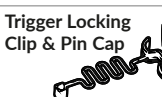
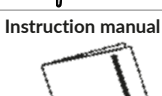
7. CHECKING OF THE PRODUCT

 WHEN RECEIVING THE SPRAY GUN, MAKE SURE THAT IT HAS NOT BEEN DAMAGED DURING TRANSPORT OR STORAGE AND ALSO CHECK THAT ALL THE FOLLOWING CONTENTS ARE INSIDE THE BOX.

STANDARD SPRAY GUN_Set includes:

	Allen wrench
	Brush
	Twisted brush Ø10 mm
	

DIGITAL VERSION with Digital Pressure Gauge DPG-1_Set includes:

	Allen wrench		Screwdriver
	Brush		Coin battery 3 volt
	Twisted brush Ø10 mm		Trigger Locking Clip & Pin Cap
IMPORTANT: In order to proceed in the correct way with the installation or the replacement of the battery it is important to strictly follow the instructions as showed on SECTION 13.			Instruction manual

8. SAFETY WARNING

WARNING	FIRE AND EXPLOSION HAZARDS
	SPARKS AND OPEN FLAMES ARE STRICTLY PROHIBITED Paints can be highly flammable and can cause fire. Do not expose to open flames, electrical goods, cigarettes etc.
	SECURELY GROUND SPRAY GUN BY USING A CONDUCTIVE AIR HOSE. ELECTRICAL RESISTENCE: <1MΩ. - ALWAYS ensure that the spray gun is earthed correctly. 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 on gun body (aluminium) 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 GUN PARTS.
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, etc., can cause inflammation of eyes and skin. In case of any physical discomfort for skin or eyes, immediately seek a medical advice. 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.
	Pulling trigger many times during operation, may cause carpal tunnel syndrome. ALWAYS REST, IN CASE OF TIREDNESS.
WARNING	IMPROPER USE OF THE EQUIPMENT
	NEVER EXCEED MAXIMUM OPERATING PRESSURE AND MAXIMUM OPERATING TEMPERATURE. Use at more than max. operating pressure can cause explosion of Spray Gun resulting in great danger. ALWAYS RELEASE AIR AND FLUID PRESSURE BEFORE CLEANING, DISASSEMBLING OR SERVICING. Otherwise, remaining pressure can cause bodily injury due to improper operation or scattering cleaning liquid. NEVER POINT SPRAY GUN TOWARDS PEOPLE OR ANIMALS. TIP OF FLUID NEEDLE SET HAS A SHARP POINT. Do not touch the tip during maintenance to avoid accidents. NEVER USE THIS GUN TO SPRAY FOODS, CHEMICALS, CORROSIVE AND/OR ABRASIVE PRODUCTS, otherwise the blend of foreign substances could cause corrosion of the fluid passages, which could adversely affect health. ALWAYS DISASSEMBLE DIGITAL PRESSURE GAUGE MODULE FROM SPRAY GUN HANDLE BEFORE CLEANING OR SERVICING. NEVER ALTER THIS SPRAY GUN OR THE DIGITAL PRESSURE GAUGE MODULE DPG-1. If done, it can cause insufficient performance and failure or in extreme cases, explosions.
WARNING	OTHER PRECAUTIONS
	IF SOMETHING GOES WRONG, IMMEDIATELY STOP OPERATION AND FIND THE CAUSE OF FAILURE. Do not use again until you have solved the problem. NEVER DISASSEMBLE, MODIFY OR ATTEMPT TO REPAIR THE DIGITAL PRESSURE MODULE DPG-1. In case of failure or malfunction, contact exclusively your ANEST IWATA Customer Technical Service.

WARNING	OTHER PRECAUTIONS
	DO NOT ENTER WORKING AREAS, WHERE ROBOTS, RECIPROCATORS, ETC. ARE USED, UNTIL THEY HAVE BEEN TURNED OFF. Otherwise, they could cause injury.
	ALWAYS USE NEUTRAL CLEANER: pH value shall be 6 to 8, otherwise could cause corrosion.
	NEVER USE SPARE PARTS THAT ARE NOT ANEST IWATA ORIGINALS.

9. SETUP OF THE GUN	
CAUTION	TO SUPPLY THE SPRAY GUN USE CLEAN AIR FILTERED THROUGH AIR DRYER AND AIR FILTER.
	WHEN USING THIS GUN FOR THE FIRST TIME AFTER PURCHASE, CLEAN FLUID PASSAGES AND REMOVE RUST PREVENTIVE OIL BY SPRAYING CLEANER.
	FIRMLY FIX GRAVITY CUP TO SPRAY GUN, TO AVOID THAT DISCONNECTION OF IT, CAN CAUSE BODILY INJURY.
1. Flush fluid passages with a compatible cleaner.	
2. Firmly connect an air hose to air nipple G1/4".	
3. Firmly connect the gravity cup to fluid nipple G1/4".	
4. Pour paint into container, adjust fluid output and as well as pattern width.	

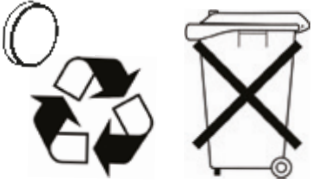
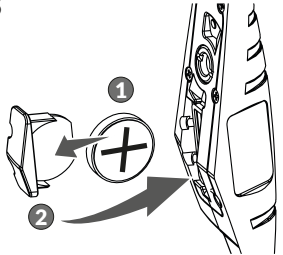
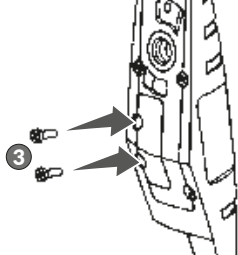
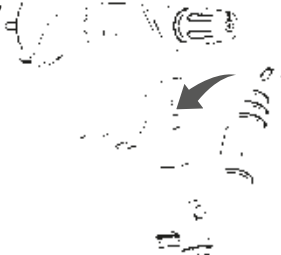
10. HOW TO ADJUST AND HOW TO OPERATE	
WS-400	Suggested air pressure is 2.0 bar (29 PSI) or less.
LS-400	To achieve the recommended 0,7 bar (10 PSI) air pressure inside the air cap, first fully open the pattern adjustment. Then while pulling the trigger, set the air pressure at the inlet port to 1,8 bar (26 PSI).

PATTERN ADJUSTMENT	FLUID OUTPUT ADJUSTMENT	DIGITAL PRESSURE GAUGE ADJUSTMENT
Recommended paint viscosity differs according to paint property and painting conditions. 14 to 25 sec. / Ford cup#4 is recommended.		
Set the spray distance from the gun to the workpiece, as near as possible within the range of 100-250 mm.		
The spray gun should be held so that it is perpendicular to the surface of the workpiece at all times. Then, the gun should move in a straight and horizontal line. Arcing the gun causes uneven painting.		

11. SAFETY PRECAUTION DURING THE SET UP OF THE DIGITAL PRESSURE GAUGE DPG-1	
WARNING	TO AVOID TO PERMANENTLY DAMAGE THE DPG-1, NEVER TRY TO REMOVE OR DETACH IT WHEN THE SPRAY GUN IS PRESSURIZED.
	USE EXCLUSIVELY SONY OR MURATA C1632 LITHIUM CELL.
	AVOID ANY SITUATION THAT COULD EXPOSE THE BATTERY TO A SHORT-CIRCUIT.

12. DISASSEMBLY PROCEDURE OF THE DIGITAL PRESSURE GAUGE DPG-1		
1	2	3
	REVERSE THE PROCEDURE TO REASSEMBLY	

13. HOW TO TO REPLACE BATTERY FROM DIGITAL PRESSURE GAUGE DPG-1		
IMPORTANT: TO UNSCREW AND SCREW THE SCREWS FROM THE BATTERY COVER OF THE DIGITAL DEVICE, USE EXCLUSIVELY THE SCREWDRIVER SUPPLIED WITH THE SPRAY GUN.		
1	2	3
IMPORTANT: TO REMOVE THE COIN BATTERY FROM THE DIGITAL PRESSURE DEVICE DON'T DISASSEMBLE ANY OTHER PARTS EXCEPT THE ONLY BATTERY COVER HOUSING AS SHOWN IN THE ABOVE PICTURE.	Unscrew and remove the two screws from the battery housing cover.	Pull out in order, first the housing cover and then the exhausted Coin battery to be replaced.

4 	5 	6 
Replace the Coin Battery with a new one and dispose the exhausted one adequately according to the regulations in force.	Fit the new Coin battery in its seat and put in place the cover housing correctly.	Put in place in the seat of the cover, the two fixing bolts and tighten them by the supplied screwdriver.
7 	8 	9 
Place the DPG-1 module in its seat on the gun handle and make sure that both magnetic surfaces of the two parts match perfectly.	Align the module to the surface of its housing and secure it on the handle of the gun by the magnetic adhere.	Check the correct position of the device before proceeding with the painting operations.

14. MAINTENANCE AND INSPECTION

	CAUTION! BEFORE CARRYING OUT MAINTENANCE AND INSPECTION ALWAYS OBSERVE WARNING INDICATIONS.
NEVER USE SPARE PARTS THAT ARE NOT ANEST IWATA ORIGINALS.	
NEVER DAMAGE FLUID NOZZLE TIP, FLUID NEEDLE OR AIR CAP HOLES.	
NEVER IMMERSE THE SPRAY GUN COMPLETELY IN LIQUIDS SUCH AS THINNER, GUN CLEANER, SOLVENT OR OTHER AGRESSIVE LIQUIDS.	

15. CLEANING PROCEDURE

	THE FLUID PASSAGES OF THE SPRAY GUN, MUST BE CLEANED THOROUGHLY AFTER EACH USE, ESPECIALLY AFTER USE WITH BI-COMPONENT PAINTS. INCOMPLETE CLEANING CAN CAUSE DEFECTIVE PATTERN SHAPE.
NEVER SOAK AIR CAP SET (1) IN CLEANER FOR AN EXTENDED PERIOD, EVEN WHEN CLEANING.	
NEVER IMMERSE THE DIGITAL PRESSURE GAUGE MODULE DPG-1 IN ANY LIQUIDS EVEN WHEN CLEANING.	
NEVER USE METAL BRUSH OR ABRASIVE PRODUCT TO CLEAN THE GUN.	
ALWAYS DISASSEMBLE DIGITAL PRESSURE GAUGE DEVICE FROM SPRAY GUN HANDLE BEFORE CLEANING PROCEDURE AND BEFORE TO INTRODUCE THE SPRAY GUN IN THE WASHING MACHINE FOR AUTOMATIC WASHING.	

16. MANUAL CLEANING PROCEDURE	
1	Always release air and fluid pressure from the spray gun before proceeding with cleaning procedure.
2	Drain remaining paint from spray gun and gravity cup, into a suitable container.
3	Pour the cleaner into the gravity cup, leave it to act for a few seconds and carry out a preliminary wash to remove any excess of residual paint.
4	Unscrew the air cap (1) by 2 turns, to allow the atomizing air to do the back flush of the cleaner in the paint passages of the gun. Pull the trigger and make sure that the atomizing air enters into the cup. Repeat the operation many times as necessary. Clean the paint passages and each section of the gun using the supplied brush soaked in compatible cleaner.
5	Remove the air cap from the gun body and if it is necessary, immerse it in the cleaner to soften the paint residues encrusted on the air outlet holes. Once extracted it from the cleaning liquid, proceed to blow the air cap holes with compressed air eliminating the residues of softened product, then proceed with an accurate and delicate cleaning of all the holes with a soft cleaning needle avoiding scratching the surfaces of the holes.
6	After having dried each part with an absorbent cloth, and in order to guarantee the perfect performance of the spray gun it is necessary to lubricate each tightening seat, and each friction zone, with the compatible lubricant included, especially after each cleaning performed in a spray gun washer. It is important to check that the lubricant used does not contain components that could ruin the quality of the atomization (silicones, etc.)
	MAKE SURE THAT THE PH LEVEL OF CLEANER DOES NOT EXCEED THE LIMIT. PH level: 6.0~8.0 (but only during cleaning).

16.1 WARNING FOR THE CLEANING OF THE GUN BODY SURFACE

	DO NOT USE PRODUCT TO PICKLING THE SURFACES.
DO NOT USE PAINT STRIPPERS OR DESCALERS.	
DO NOT USE ACID CONTENT CHEMICAL PRODUCTS.	
DO NOT USE SOLVENTS, THINNERS OR CLEANING PRODUCTS PRODUCED BY RECYCLED EXHAUST CHEMICAL PRODUCTS.	
DO NOT LEAVE THE GUN IMMERSED IN THE CLEANING OR DEGREASING CHEMICAL PRODUCTS.	
USE ANTI-FOG SOLVENTS OR THINNERS.	
DRY OR BLOW OUT THE GUNS WITH COMPRESSED AIR AFTER CLEANING TO AVOID CHEMICAL PRODUCT STUCK THAT AFTER LONG TIME CAN DAMAGE THE SURFACE.	
RINSE THE GUN WITH CLEAN SOLVENT ONLY.	
DO NOT CLEAN OR POLISH THE GUN SURFACE WITH ABRASIVE PRODUCTS OR PRODUCTS THAT CAN MECHANICAL DAMAGE THE SURFACES LIKES: ABRASIVE PASTES, METALLIC BRUSHES, POLISHING WHEELS OR ABRASIVE SPONGES.	

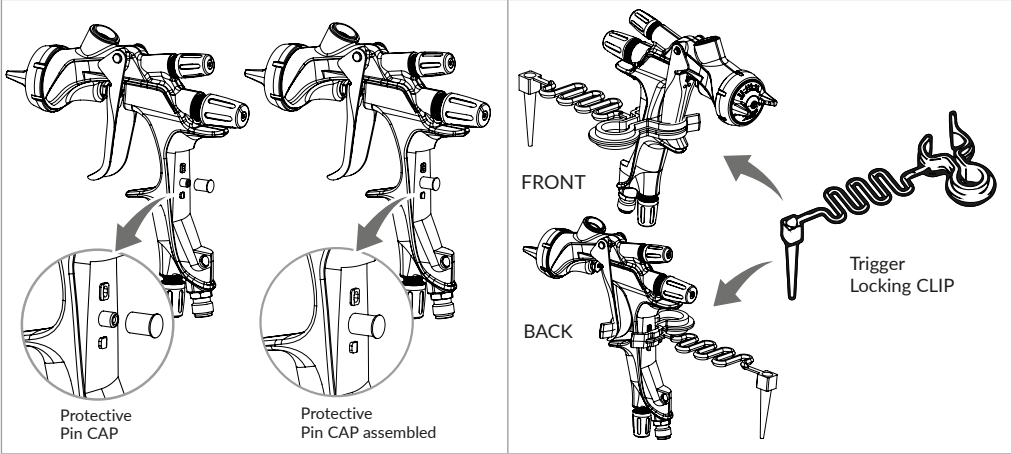
IMPORTANT:	CHECK TRHOUGHT THE DATA SHEET THAT CLEANING PRODUCT DOES NOT INCLUDE THE FOLLOWING COMPONENTS:
• DICHLOROMETHANOL • AMMONIUM BIFLORIDE • HYDROGEN PEROXIDE 130 vol. • NITRIC ACID • TRIPOTASSIUM HEXACYANOFERRATE	

17. WARNING DURING AUTOMATIC WASHING PROCEDURE

	WHEN USING AUTOMATIC SPRAY GUN WASHER, ALWAYS FOLLOW THE INSTRUCTION MANUAL PROVIDED WITH IT.
BEFORE CLEANING, MAKE SURE AIR IS RELEASED FROM AIR PASSAGES.	
ONLY USE SUITABLE CLEANER DESIGNED FOR YOUR SPRAY GUN WASHER.	
MAKE SURE THAT THE EQUIPMENT IS DRIED IMMEDIATELY AFTER CLEANING.	
SECURELY CONNECT GROUND THE GUN WASHER EQUIPMENT, USE OF CLEANER WITH WATER-BASE COATINGS RESIDUES, IT COULD INCREASE PH LEVEL, ESPECIALLY AFTER SEVERAL WASHINGS. PLEASE, REPLACE THE CLEANER REGULARLY IN ORDER TO ALWAYS ENSURE THE BEST SPRAY GUN PERFORMANCE.	

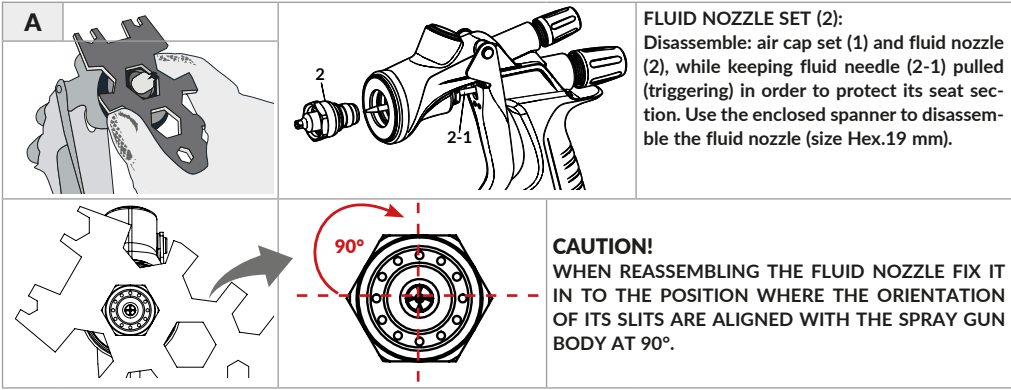
17.1 PREPARATION OF THE DIGITAL VERSION FOR AUTOMATIC WASHING IN THE GUN WASHER

Before to introduce the spray gun into the gun washer for automatic washing, remove the Digital Pressure Gauge DPG-1 from the gun body and fit either the Protective Pin Cap or the Trigger Locking Clip to close the pressure reading port.

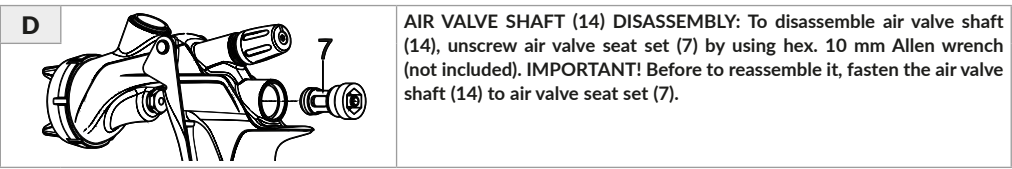
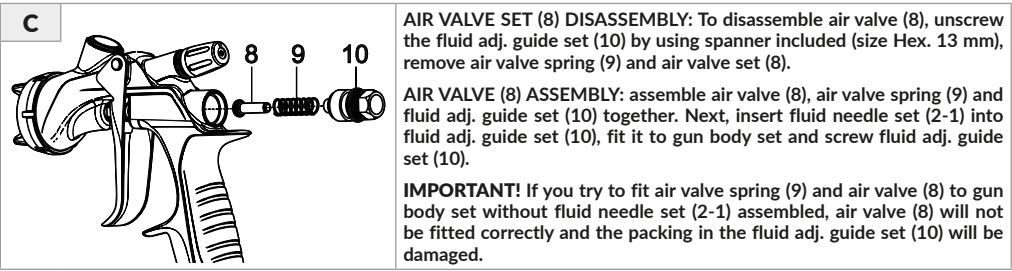
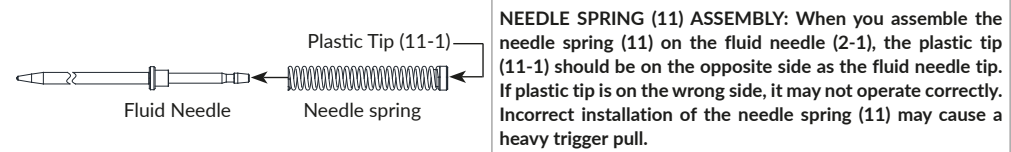


18. DISASSEMBLY AND REASSEMBLE PROCEDURE

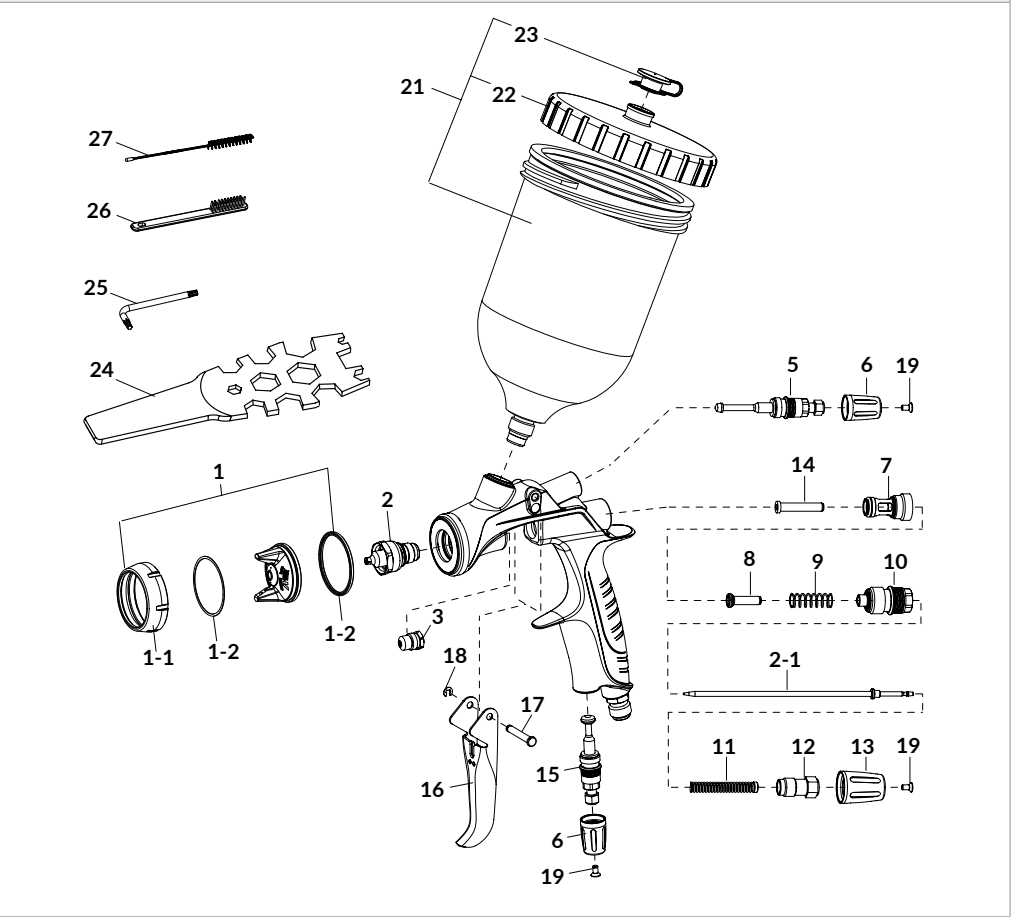
CAUTION! BEFORE DISASSEMBLY, FULLY CLEAN FLUID PASSAGES.



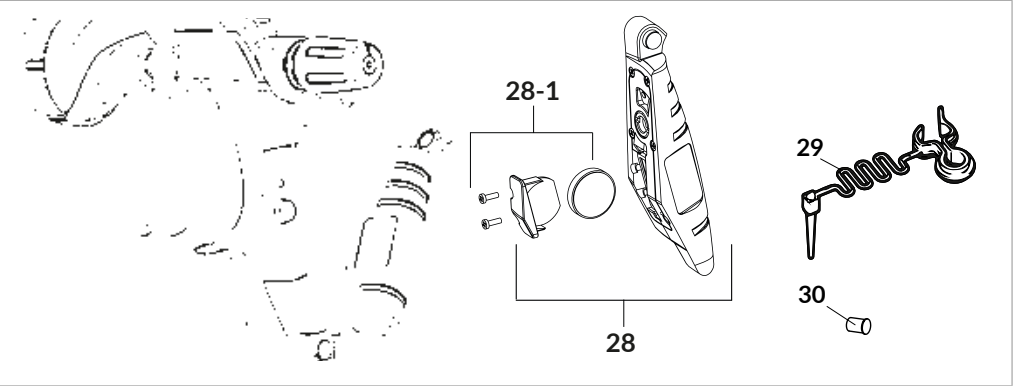
B FLUID NEEDLE (2-1) _ DISASSEMBLE FLUID NEEDLE ONLY WHEN STRICTLY NECESSARY. Unscrew fluid adjustment knob, extract the spring (11) and fluid needle set (2-1), from the back of fluid adj. guide set (10) still assembled on the gun body.



19. WS-400 & LS-400 EXPLODED DRAWING



ADDITIONAL SPARE PARTS OF THE VERSION WITH DIGITAL MODULE



19.1 WS-400 SR2 | LS-400 SR2 SPARE PART LIST

CODE	DESCRIPTION		CODE	DESCRIPTION	
93008310	AIR CAP SET 02-OBS	1	93505860	TRIGGER STUD	17
93009030	AIR CAP SET 03		96612025	E STOPPER	18
93018140	AIR CAP SET 03-BF		93512741	TORX SOCKET COUNTERSUNK HEAD SCREWS	19
93008030	AIR CAP SET 06		14019100	PC-G600P-2 GRAVITY CUP	21
93008330	AIR CAP RING	1-1	93008330	BASE (Blue)	22
93009050			94011220	LID	
93008060			94011230	NON DRIP	
93018310	AIR CAP PACKINGS SET (2 pcs.)	1-2	930171A0	UNIVERSAL SPANNER	24
93008930	FLUID NOZZLE + FLUID NEEDLE SET	2 + 2-1	03506480K	TORX ALLEN KEY WRENCH T10 (3 pcs.)	25
93008340			W2COM6163	BRUSHES (5 pcs.)	26
93008990			W2COM6162	TWISTED BRUSH Ø10mm (5 pcs.)	27
93018150			930113A0	DIGITAL PRESSURE (Bar)	28
93009140			930114A0	GAUGE DPG-1 (PSI)	28
93009060			930115A0	(Include BATTERY KIT Spares) (Mpa)	28
93009160			930325A0	BATTERY KIT SPARES	28-1
93009180			930357A0	TRIGGER LOCKING CLIP	29
93008160			930366A0	PROTECTIVE PIN CAP (5 pcs.)	30
93008070					
93008180					
93008200					
93008230					
93008250					
93008270					
93008290					
93810620	NEEDLE PACKING SET	3			
93008420	PATTERN ADJ. SET	5			
93008140	PATTERN ADJUSTMENT KNOB	6			
93009120					
93008820					
93001640	AIR VALVE SEAT SET	7			
93001690	AIR VALVE	8			
93001700	AIR VALVE SPRING	9			
93008840	FLUID ADJ. GUIDE SET	10			
93002820	FLUID NEEDLE SPRING SET	11			
93505823	FLUID ADJ. SCREW	12			
93008150	FLUID ADJUSTMENT KNOB	13			
93009130					
93008860					
93001790	AIR VALVE SHAFT	14			
93008870	AIR ADJUSTMENT SET	15			
93008890	TRIGGER	16			



When ordering parts, specify gun model, part name with No. and marked No. of air cap set (ref.1), fluid nozzle and fluid needle set (ref.2 + 2-1).



MARKED PARTS ARE WEARABLE PARTS.



TO DISASSEMBLE AIR VALVE SEAT, PART.7, USE 10 mm ALLEN WRENCH. (Non ball point type).

19-2 WS-400 SR2 LS-400 SR2 AIR CAP - FLUID NOZZLE + FLUID NEEDLE COMBINATION				
MODEL	FLUID NOZZLE + FLUID NEEDLE SET		AIR CAP SET	
	CODE	Nozzle Mark	CODE	Air Cap Mark
WS-400 BASE				
WS-400-OBS.0	93008930	OBS-0	93008310	WS-400-02-OBS
WS-400-OBS	93008340	OBS		
WS-400-OBS.1	93008990	OBS+1		
WS-400-BFS	93018150	BF-S	93018140	WS-400-03-BF
WS-400 CLEAR				
WS-400-12H03	93009140	12HD	93009030	WS-400-03
WS-400-13H03	93009060	13HD		
WS-400-14H03	93009160	14HD		
WS-400-15H03	93009180	15HD		
LS-400 ET				
LS-400-1206	93008160	12ET	93008030	LS-400-06
LS-400-1306	93008070	13ET		
LS-400-1406	93008180	14ET		
LS-400-1506	93008200	15ET		
LS-400 ETS				
LS-400-12S06	93008230	12ETS	93008030	LS-400-06
LS-400-13S06	93008250	13ETS		
LS-400-14S06	93008270	14ETS		
LS-400-15S06	93008290	15ETS		



2 Jones Rd, Bartlett AH Boksburg, Gauteng,
South Africa Tel: 086 137 2468
Email: sales@speccoats.co.za
www.speccoats.co.za

20. TROUBLESHOOTING		
PROBLEM		REMEDY
GUN DOES NOT SPRAY		
	Fluid adj. knob (13) closed.	Check and adjust it.
	Tip hole of nozzle (2) obstructed.	Check and clean it.
	Deposit of paint between the fluid needle (2-1) and the needle packing set (3).	Check and clean it.
	Paint filter obstructed.	Check and clean it.
	Non drip obstructed.	Check and clean it.
INTERMITTENT SPRAY PATTERN		
	Air leaks from fluid nozzle (2).	Check, clean or replace.
	Air leaks from fluid needle packing (3).	Tighten.
	Air leaks from cup joint.	Tighten.
	Dirty inside air cap set (1).	Clean.
DEFECTIVE SPRAY PATTERN		
	Dirty nozzle (2) or air cap set (1).	Clean carefully.
	Nozzle (2) or air cap (1) has been damaged.	Replace if damaged.
	Fluid nozzle (2) is loose.	Tighten.
	Paint viscosity too high or too low.	Dilute paint or increase viscosity.
	Fluid output too high or too low.	Adjust fluid adj. knob (13) to reduce or increase.
LEAKING		
	Fluid nozzle (2), needle set (2-1) or gun body, dirty, damaged or worn on seat.	Check, clean or replace.
	Dirty inside air cap set (1).	Clean.
	Loose fluid adj. knob (13).	Adjust.
	Fluid needle spring set (11) is worn.	Replace.
	Loose fluid nozzle set (2).	Tighten.
	Needle packing set (3) loose, too tight, dirty or worn.	Adjust, clean or replace.
AIR LEAKS FROM AIR CAP		
	Air valve (8), air valve seat (7) or air valve spring (9) dirty or damaged.	Clean or replace if necessary.
	Air valve seat set O'ring (7-1) damaged or worn.	Replace.
DIGITAL PRESSURE GAUGE DOES NOT WORK		
	The pressure display doesn't indicate any pressure value.	Replace the battery.
	The air pressure indicated on pressure display is not correct.	Remove and re-insert the battery for automatic calibration.

20.1 INSPECTION AND REPLACEMENT STANDARD	
WHERE TO INSPECT	REPLACEMENT PART
Each hole passage of air cap (1) and fluid nozzle (2).	Replace if it is crushed or deformed.
Packing and O ring.	Replace if it is deformed or worn out.
Leakage from seat section between fluid nozzle (2) and fluid needle set (2-1).	Replace them if leakage does not stop after fully cleaning fluid nozzle (2) and fluid needle set (2-1). If you replace fluid nozzle (2) or fluid needle set (2-1) only, fully match them and confirm that there is no leakage.