

SB-E-2-553 ISS.02

Operation Manual

HVLP and Trans-Tech[®] Pressure Feed Spraygun









Important

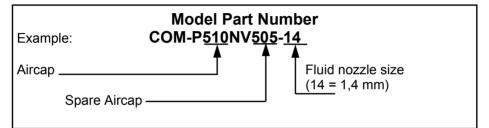
Operation Manual

Read and follow all instructions and Safety Precautions before using this eauipment

Description

The Nouveau pressure feed Sprayoun Kit complies to ATEX regulations 94/9/EC, protection II 2 G X. Suitable for use in Zones 1 and 2 level.

Important: : These Spravauns are suitable for use with both waterbased and solvent based coating materials. The design uses EPA compliant (Devilbiss Trans-Tech®) and HVLP atomising technology to reduce overspray and improve coating efficiency. These guns are not designed for use with highly corrosive and/or abrasive materials and if used with such materials it must be expected that the need for cleaning and/or replacement of parts will be increased. If there is any doubt regarding the suitability of a specific material contact your local Distributor or ITW Finishing direct



EC Declaration of Conformity

We: ITW Finishing UK. Ringwood Rd. Bournemouth. Dorset. BH11 9LH. UK. as the manufacturer of the Spraygun model Nouveau, declare, under our sole responsibility, that the equipment to which this document relates is in conformity with the following standards or other normative documents.

BS EN 292-1 PARTS 1 & 2: 1991, BS EN 1953: 1999; and thereby conform to the protection requirements of Council Directive 98/37/EC relating to Machinery Safety Directive, and.

EN 13463-1:2001, council Directive 94/9/EC relating to Equipment and Protective Systems intended for use in Potentially Explosive Atmospheres protection level II 2 G X. This product complies with the requirements of the EPA guidelines, PG6/34,PG6/20 and PG6/23. Achieving transfer efficiency in excess of 65%.

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B. Holt, General Manager 30th June 2003

ITW Finishing Systems and Products reserve the right to modify equipment specification without prior notice.

SAFETY WARNINGS



Fire and explosion

Solvents and coating materials can be highly flammable or combustible when spraved. ALWAYS refer to the coating material suppliers instructions and COSHH sheets before using this equipment



Users must comply with all local and national codes of practice company and insurance requirements aovernina

ventilation, fire precautions, operation and house-keeping of working areas



This equipment, as supplied. is NOT suitable for use with Halogenated Hydrocarbons.

Static Electricity can be generated by fluid and/or air passing through hoses, by the spraying process and by cleaning nonconductive parts with cloths. To prevent ignition sources from static discharges. earth continuity must be maintained to the spraygun and other metallic equipment used. It is essential to use conductive air and/or fluid hoses.



Personal Protective Equipment



Toxic vapours – When sprayed. certain materials may be poisonous, create irritation or be otherwise harmful to health.

Always read all labels and safety data sheets for the material before spraving and follow any recommendations. If In Doubt. Contact Your Material Supplier



The use of respiratory protective equipment is recommended at all times. The type of equipment must be compatible with the material being sprayed.

Always wear eve protection when spraving or cleaning the spravgun

when Gloves must he worn cleaning the spraving or equipment



Training - Personnel should be given adequate training in the safe use of spraving equipment.

Misuse

Never aim a spravoun at any part of the bodv

Never exceed the max recommended safe working pressure for the equipment

The fitting of non-recommended or nonoriginal spares may create hazards

Before cleaning or maintenance, all pressure must be isolated and relieved from the equipment

The product should be cleaned using a gun washing machine. However, this equipment should not be left inside aun washing machines for prolonged periods of time

Noise Levels

The A-weighted sound level of sprayguns may exceed 85 dB (A) depending on the set-up being used. Details of actual



noise levels are available on request. It is recommended that ear protection is worn at all times when spraving.

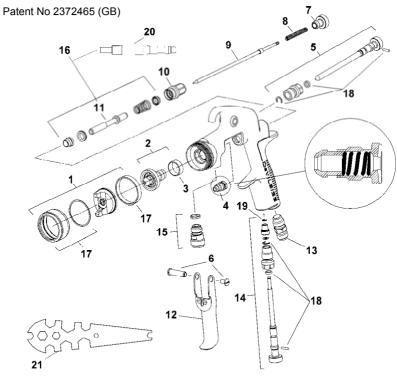
Operating

Spray Equipment using high pressures may be subject to recoil forces. Under certain circumstances, such forces could result in repetitive strain injury to the operator.



Parts List

	Ref. No	Description	Part Number	Qty	Options
	1	Air Cap/Retaining ring COM-522 or COM-510	SP-100-***-K	1	522, 510, 505,523,470 e.g *** = 522
+	2	Nozzle	SP-200S-**-K	1	085,10,12,13,14, 16,18,20,22 e.g ** =14 =1.4 mm
*+	3	Separator	SP-623-K5	5	
*+	4	Packing	GTI-445-K2	2	
	5	Spreader Valve	SP-401-K	1	
	6	Stud and Screw	GTI-408-K5	5	
	7	Needle Adjusting Screw	SP-614-K	1	
*+	8	Spring	SP-642-K5	1	
+	9	Needle	SP-300S-**-K	1	085,10,12,13,14, 16,18,20,22 e.g ** =14 =1.4 mm
		Needle—Plastic tipped	SP-300P-**-K		10, 12, 14 e.g ** =14 =1.4mm
	10	Airvalve housing + seal	SP-612-K	1	
*+	11	Spindle		1	
	12	Trigger	SP-641-K	1	
	13	Connector	SP-611-K	1	
	14	Airflow Valve	SP-402-K	1	
	15	Fluid Inlet Connector and seal	SP-610–K	1	
*+	16	Air Valve Service Kit	SPK-101-K	1	
	17	Retaining Ring and Seals	SPK-102-K	1	
*+	18	Spreader/ Cheater Service Kit	Gti-428-K5	5	
	19	Circlip	25746-007-K5	5	
+	20	Air valve assembly Tool		1	
	21	Spanner	SPN-5	1	
		Spraygun Service Kit (parts included marked +)	SPK-401-**	1	085,10,12,13,14, 16,18,20,22 e.g ** =14 =1.4 mm
		Spraygun Service Kit (parts included marked *)	SPK-402-**	1	085,10,12,13,14, 16,18,20,22 e.g ** =14 =1.4 mm



Specification

Air supply connection -	Universal ¹ / ₄ " BSP and NPS			
Fluid Supply Connection -	Universal ³ /8" BSP and NPS			
Maximum static Air inlet pressure -	P ₁ = 12 bar (175 psi)			
Maximum static Fluid inlet pressure -	P ₂ = 15 bar (218 psi)			
Nominal gun Air inlet pressure - with gun triggered	2.5 bar (36 psi) 523 Trans-Tech Air Cap 2. bar (29 psi) 522 & 510 Trans-Tech Air Cap 1.4 bar (20 psi) 505 HVLP Air Cap			
Maximum Service temperature	40°C			
Gun Weight -	435 g			
Materials of Construction				
Gun body	Anodised Aluminium			
Nozzle	Stainless Steel			
Needle	Stainless Steel			
Fluid Inlet	Stainless Steel / PTFE			
Trigger	Nickel Plated Steel			

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Important: To ensure that this equipment reaches you in first class condition, protective coatings have been used. Flush the equipment through with a suitable solvent before use. 1. Attach air hose to connector (13). Recommended hose size 8 mm	 and electrical bond from the spraygun to earth should be checked with an ohmeter. A resistance of less than 10⁶ Ohms is recommended. 2 Attach fluid supply hose to Fluid
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Operation

1.	Mix coating material to manufacturers instructions	by turning needle screw (7) clockwise or reducing the fluid
2.	Turn needle adjusting screw (7)	pressure. If atomisation is too
3.	clockwise to prevent movement. Turn spreader valve (5) counter-	coarse, increase inlet air pressure. If too fine reduce inlet pressure.
	clockwise to fully open.	8. The pattern size can be reduced by
4.	Adjust inlet air pressure (For	turning adjusting valve (5)
	recommended figures see	
	Specifications) at the gun inlet with	
	the gun triggered. (pressure gauge	
	attachment shown under	Ş
	Accessories is recommended for this).	10. The recommended spray distance is 150-200 mm (6"-8").
5	Turn needle adjusting screw counter	. ,
J ^{0.}	clockwise until first thread shows.	stroke a minimum of 50%. Move
6.	Test spray. If the finish is too dry	
	reduce airflow by reducing air inlet	
	pressure or by the Airflow Valve	
	(14). Screw the Adjusting Knob (14)	not in use.
	in to reduce pressure.	
7.	If finish is too wet reduce fluid flow	

Preventative Maintenance

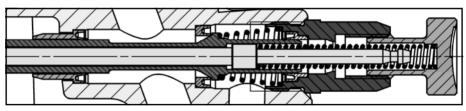
 Turn off air and coarelieve pressure lines, or if using disconnect from a line. Remove air cap (any of the holes blocked with coatin toothpick to clean. wire which could of 	in the supply g QD system, 3 airline and fluid 1) and clean. If in the cap are g material use a Never use metal	clean and free from damage. Build up of dried paint can distort the spray pattern.
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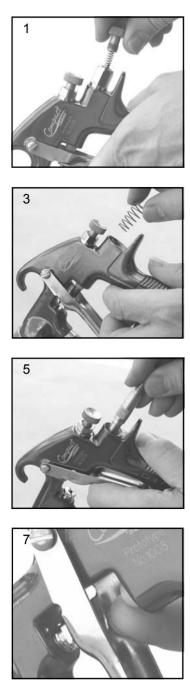
Replacement of Parts

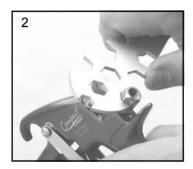


 Nozzle (2) and Needle (9) – Remove parts in the following order: 7, 8, 9, 1 and 2. Replace any worn or damaged parts and re-assemble in reverse order. Recommended tightening torque for nozzle (2) 9.5-12 Nm (80-100 lbf in). Packing – Remove parts 7, 8, 9. Unscrew cartridge (4). Fit new cartridge finger tight. Re-assemble parts 9, 8, and 7 and tighten cartridge (4) with spanner sufficient to seal but to allow free movement of needle. Lubricate with gun oil. Air Valve Seal Kit (16) - (Refer to photos 1 to 28 and fig 2) 	 Groove must face outwards. 12. Fit Valve Seat to Gunbody. 13. Remove Rear Airvalve Seal from housing (10) with a hooked instrument. 14. Fit new Seal to Service Tool. 15. Fit Seal to Housing (10). 16. Replace Valve (11). 17. Replace Valve Spring and screw in Housing (10). 18. Tighten Housing. 19. Fit Needle (9). 20. Fit Spring (8) and Knob (7). 21. Adjust Needle Packing (4) with Spanner sufficient to seal but to allow free movement of needle. Lubricate with gun oil.
 Remove Adjusting Knob (7), Spring (8), and Needle (9). Loosen Housing (10). Remove Housing (10) and Airvalve Spring. Remove Valve (11). Using Service Tool SPN-7, engage groove behind the Valve Seat. Remove Valve Seat. Remove Valve Seat. Push out the Front Airvalve Seal with a finger. Turn the Gun upside down and let the Seal fall out. Fit New Front Seal to Service Tool. Fit new Seal to gunbody and press firmly to ensure Seal is engaged. Fit New Valve Seat to Service Tool. 	Spreader valve (5) – Caution: always ensure that the valve is in the fully open position by turning screw fully counter- clockwise before fitting to body. Air cap / Nozzle Selection Refer to coating material manufacturers recommendations or ITW Finishing UK Website: www.itweuropeanfinishing.com



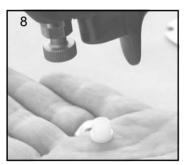


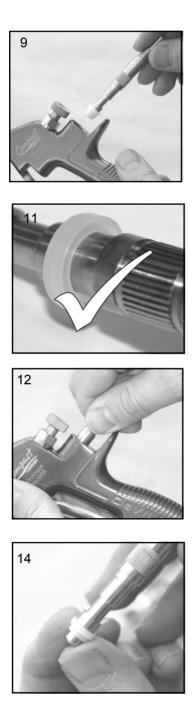


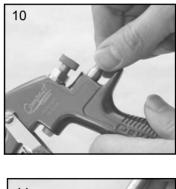




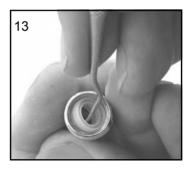




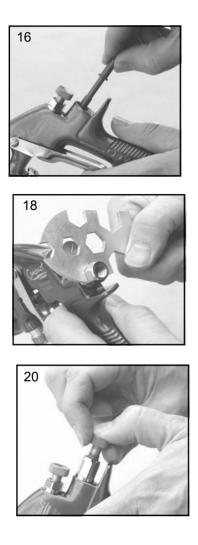




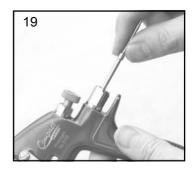














Accessories

Spanner – order SPN-5 Cleaning Brush – order 4900-5-1-K3 Regulator/Gauge Attachment - order HAV-501-B Pressure gauge Attachment – order GA-515 Gun Mounted Regulator – order DVR-501 Spraygun Lubricant - order GL-1-K10



Roundspray Aircap - COM-500R

HVLP Mode - Air Inlet Pressure = 1.0 Bar (14.5 PSI) Tans-tech Mode – Air Inlet Pressure = 2 bar (29 PSI) Approx Spot Size = Ø50mm



IT W Industrial Finishing – Masters of Finishing Technology www.itwifeuro.com ITW Finishing Systems and Products Ringwood Road, Bournemouth, BH11 9LH, England. Tel. No. (01202) 571111 Telefax No. (01202) 581940, Website address http://www.itweuropeanfinishing.com

ITW Oberflächentechnik GmbH & Co. KG Justus-von-Liebig-Straße 31 63128 Dietzenbach Tel (060 74) 403-1 Telefax: (060 74) 403300 Website address http://www.itw-finishing.de

ITW Surfaces Et Finitions 163-171 avenue des Auréats B.P. 1453 26014 VALENCE CEDEX FRANCE Tél. (33) 475-75-27-00 Télex 345 719F DVILBIS Téléfax: (33) 475-75-27-99

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