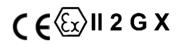


SB-E-2-362 ISS.05



Operation Manual

GTi – Pressure Feed Spraygun







CE

Operation Manual

GTi – Pressure Feed Spraygun

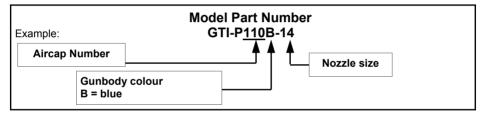
Important

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

Description

The GTi Pressure Feed Spraygun Kit is approved to ATEX regulations 94/9/EC, protection level; II 2 G X, Suitable for use in Zones 1 and 2

Important: These Sprayguns are suitable for use with both waterbased and solvent based coating materials. The design uses EPA compliant atomising (Devilbiss Trans-Tech®) technology to reduce overspray and improve coating efficiency. Nozzles and Needles are manufactured in Stainless Steel. 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 GTi-P**, 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/EEC 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 also complies with the requirements of the EPA guidelines, PG6/34.

Transfer efficiency certificates are available on request.

B. Holt, General Manager 30th June 2003

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.

Alwavs 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

Gloves must be worn when the spraving or cleaning 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 oun 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.

E

Parts List

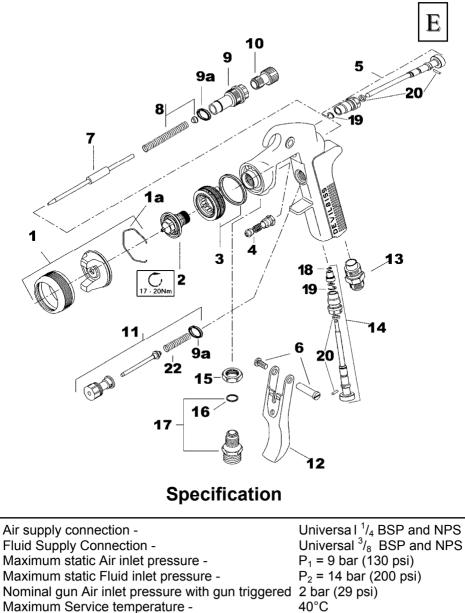
Ref. No	Description	Part Number	Qty
1	Air Cap/Retaining ring	GTI-407-	1
1a	Spring Clip	JGA-156-K5	1
+2	Nozzle	SEE CHART	1
3	Baffle & Seal	GTI-425-K	1
	Baffle Seal - Kit of 5	GTI-33-K5	1
+4	Spring Adjusted Needle Packing	Gti-445-K2	1
5	Spreader Valve	GTI-405-K	1
6	Stud and Screw	GTI-408-K5	1
+7	Needle	SEE CHART	1
+8	Spring and Pad	GTI-409-K5	1
9	Bushing	GTI-402-K	1
9a	Seal kit of 5	JGS-72-K5	2
10	Needle Adjusting Screw	GTI-414-K	1
11	Valve Assembly	JGK-449	1
12	Trigger	GTI-108	1
13	Connector	JGA-158	1
14	Airflow Valve	GTI-415-K	1
15	Lock Nut	JGA-51-K5	1
16	Seal	23165-001	1
17	Fluid Inlet Connector and seal	JGA-159-K	1
18	Circlip	25746-007-K5	1
19	Circlip		2
20	Seal & Pin Kit (+ SST-8434-K5)	GTI-428-K5	2
21	Air valve stem assembly	-	1
22	Spring	JGV-262-K5	1

+ - Parts included in service Kit (see accessories)

Chart 1

Nozzle	Needle	Nozzle	Needle
GTI-213-085-K	GTI-449-10-K	GTI-213-15-K	GTI-449-14-K
GTI-213-10-K	GTI-449-10-K	GTI-214-16-K	GTI-420-K
GTI-213-11-K	GTI-449-12-K	GTI-214-18-K	GTI-420-K
GTI-213-12-K	GTI-449-12-K	GTI-214-20-K	GTI-420-K
GTI-213-13-K	GTI-449-14-K	GTI-214-22-K	GTI-420-K
GTI-213-14-K	GTI-449-14-K		

© 2007 ITW Finishing Systems and Products



640 g

Materials of Construction

Gun body	-	Anodised Aluminium
Nozzle	-	Stainless steel
Needle	-	Stainless Steel

Gun Weight -

E

Installation

	bore. The hose must be conductive and electrical bond from the spraygun to earth should be checked with an ohmeter. A resistance of less than $10^6\Omega$ is recommended. Air supply should be filtered and regulated.
--	---

4		
1.	Mix coating material to	pressure. If too fine reduce inlet
	manufacturers instructions	pressure.
2.	Turn needle adjusting screw (10)	7. The pattern size can be reduced
	clockwise to prevent movement.	by turning adjusting valve (5)
3	Turn pattern valve (5) counter-	clockwise.
0.	clockwise to fully open	8. Hold gun perpendicular to surface
1	Adjust inlet air pressure to give 2	being sprayed. Arcing or tilting
4.	, , ,	
	bar (29psi) at the gun inlet with	may result in uneven coating.
	the gun triggered. (pressure	
	gauge attachment shown under	is 150-200 mm (6"-8").
	Accessories is recommended for	
	this).	stroke a minimum of 50%. Move
5.	Turn needle adjusting screw	gun at a constant speed.
	counter clockwise until first thread	11. Always turn off air and fluid supply
	shows.	and relieve pressure when gun is
6.	Test spray. If the finish is too dry	not in use.
	reduce airflow by reducing inlet	Air Flow Valve (14)
	pressure. If finish is too wet	1. If the airflow valve (14) is fitted
	reduce fluid flow by turning needle	· · ·
	screw (10) clockwise or reducing	
	the fluid pressure. If atomisation is	
	•	
	too coarse, increase inlet air	reduce pressure.

Preventative Maintenance

 Turn off air and coating supply and relieve pressure in the supply lines, or if using QD system, disconnect from airline and fluid line. Remove air cap (1) and clean. If any of the holes in the cap are blocked with coating material use 	3.	a toothpick to clean. Never use metal wire which could damage the cap and produce distorted spray patterns Ensure the tip of the nozzle (2) is clean and free from damage. Build up of dried paint can distort the spray pattern.
--	----	--

4.	Lubrication	 stud/screw 	(6),	should be oiled each day.	
	needle (7)	and air valve	(11)		

Replacement of Parts

Nozzle (2) and Needle (7) – Remove parts in the following order: 10, 8, 7, 1 and 2. Replace any worn or damaged parts and re-assemble in reverse order. Recommended tightening torque for nozzle (2) 17-20 Nm (150-180 lbf in)

Packing – Remove parts 10, 8, 7. Unscrew cartridge (4). Fit new cartridge finger tight. Re-assemble parts 7, 8, and 10 and tighten cartridge (4) with spanner sufficient to seal but to allow free movement of needle. Lubricate with gun oil. **Air valve (11)** – Remove Trigger, parts 6 and 12. Unscrew valve assembly. Re-assemble, fitting spring to valve head before fitting valve.

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

Accessories

Spanner – order SPN-5 Cleaning Brush – order 4900-5-1-K3 Service Kit – For sizes 16 to 22 order GTI-416 and nozzle size as required (i.e GTI-416-18) For sizes 085 to 15 order GTI-426 and nozzle as required size as required (i.e GTI-426-14) Pressure gauge Attachment – order GA-515 Gun Mounted Regulator – order DVR-501 Lubricant - order GL-1-K10

E

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 Automotive Finishing UK Anchorbrook Industrial Estate Lockside Aldridge, Walsall, UK. Tel. No. (01922) 423700 Telefax No. (01922) 423705, Website address http://www.itweuropeanfinishing.com

ITW Finishing Systems and Products is a Division of ITW Ltd. Reg. Office: Admiral House, St Leonard's Road, Windsor, Berkshire, SL4 3BL, UK Registered in England: No 559693 Vat No 619 5461 24 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