

DEVILBISS

AUTOMOTIVE REFINISHING

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Technical Bulletin

JGA PRO range of Suction and Pressure feed
Spray Guns



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EC Declaration of Conformity

We, Finishing Brands UK Limited, Ringwood Rd, Bournemouth, Dorset, BH11 9LH, UK, as the manufacturer of the Spray gun model **JGA-PRO** 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.



D. Smith, General Manager
31st January 2013

Finishing Brands UK Limited reserves the right to modify equipment specification without prior notice.

Part Numbers

The ordering code for the for JGA-Pro Suction and Pressure range of Sprayguns is;

e.g. JGA**SPRO-C1-16** where;

C1	=	C1 Aircap. Alternatives are C2 and C3
S	=	Suction feed. Alternative is P for pressure
16	=	1.6 Nozzle. See chart 2 p14 for available sizes

Operational Description

This JGA PRO Spray Gun is a professional quality gun. The JGA PRO is suitable for a wide range of paints, dyes, stains, glazes and lacquers.

IMPORTANT: These Sprayguns are suitable for use with both waterbased and solvent based coating materials. 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 DeVilbiss Distributor or DeVilbiss direct.

NOTE: This gun is not to be used with halogenated hydrocarbon solvents or cleaning agents such as 1,1,1,-Trichloroethane or methylene chloride. These solvents can react with the aluminium components used in this gun and cup. The reaction can become violent and lead to an equipment explosion.

Kit contents (all models)			
1	JGA PRO Suction or Pressure Feed Spraygun	1	Spanner (10mm and 14mm A/F)
1	KR 1 litre Suction feed Cup (Suction models only)	1	Torx/Flat blade screwdriver
1	Cup Filter (Suction models only)	1	Cleaning Brush
1	Set of 4 coloured identification rings	1	Service bulletin

Construction Features			
1	Air Cap (nickel plated brass for long durability)	10	Fan Air Adjustment (stepless regulation for fan to round spray)
2	Air Cap Retaining Ring (allows easy rotation of air cap)	11	Fluid Adjustment (stepless regulation of fluid volume)
3	Fluid Nozzle (ideal for automotive topcoat systems)	12	Removable Spray Head (for long gun service life)
4	Fluid Needle (grooved stem for easy removal)	13	Interchangeable Colour ID System (4 coloured rings supplied)
5	Fluid Inlet (3/8 BSP thread – accepts DeVilbiss and most other cup systems)	14	Anodised, forged aluminium gun body (ergonomic, good looking & durable, easy to clean)
6	Air Inlet (universal thread, accepts 1/4 BSP & 1/4 NPS)	15	1 litre Aluminium Suction Cup (Suction models only)
7	Self Adjusting Needle Packing (for trouble free operation)	16	Cup Lid with Drip Free diaphragm
8	Trigger (ergonomic for comfort)	17	Air Valve (design offers low pull force & low pressure drop)
9	Trigger Stud & Screw (easy replacement design)	18	Gun acceptable for waterborne and solvent borne applications

Materials of Construction	
Gun Body	Anodised aluminium
Air Cap,	Nickel plated brass
Fluid Nozzle, Fluid Needle, Fluid Inlet, Trigger Stud	Stainless steel
Spray Head	Anodised aluminium
Springs, Clips, Screws	Stainless steel
Seals, Gaskets	Solvent resistant materials
Trigger	Chrome plated steel
Air Inlet, Body Bushing, Spreader Valve Body, Air Valve Nut, Air Cap Retaining Ring, Knobs	Chrome plated brass
Air Valve Assembly	Stainless Steel, HPDE
Cup	Aluminium Cup, Lid, tube and cam

Specifications & Technical Data	
Air Supply Connection	Universal 1/4" (fits 1/4" BSP and 1/4" NPS male)
Maximum Static Air Inlet Pressure	P1 = 12 bar (175 psi)
Maximum Static Fluid Inlet Pressure	P2 = 14 bar (203 psi)
Fluid Supply Connection	Universal 3/8" (fits 3/8" BSP and 3/8" NPS male)
Service Temperature	0 to 40°C (32 to 104°F)
Gun Weight (gun only)	650g
(cup only)	420g

SAFETY WARNINGS

Fire and explosion



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



Users must comply with all local and national codes of practice and insurance company requirements governing 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 non-conductive parts with cloths. To prevent ignition sources from static discharges, earth continuity must be maintained to the spray gun 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 are otherwise harmful to health. Always read all labels, safety data sheets and follow any recommendations for the material before spraying. 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 eye protection when spraying or cleaning the spray gun.



Gloves must be worn when spraying or cleaning the equipment.

Training – Personnel should be given adequate training in the safe use of spraying equipment.

Misuse

Never aim a spray gun at any part of the body.

Never exceed the maximum recommended safe working pressure for the equipment.

The fitting of non-recommended or non-original 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, and should be removed and dried immediately after cleaning is completed. Prolonged exposure to cleaning solutions can cause damage to the product.



Noise Levels

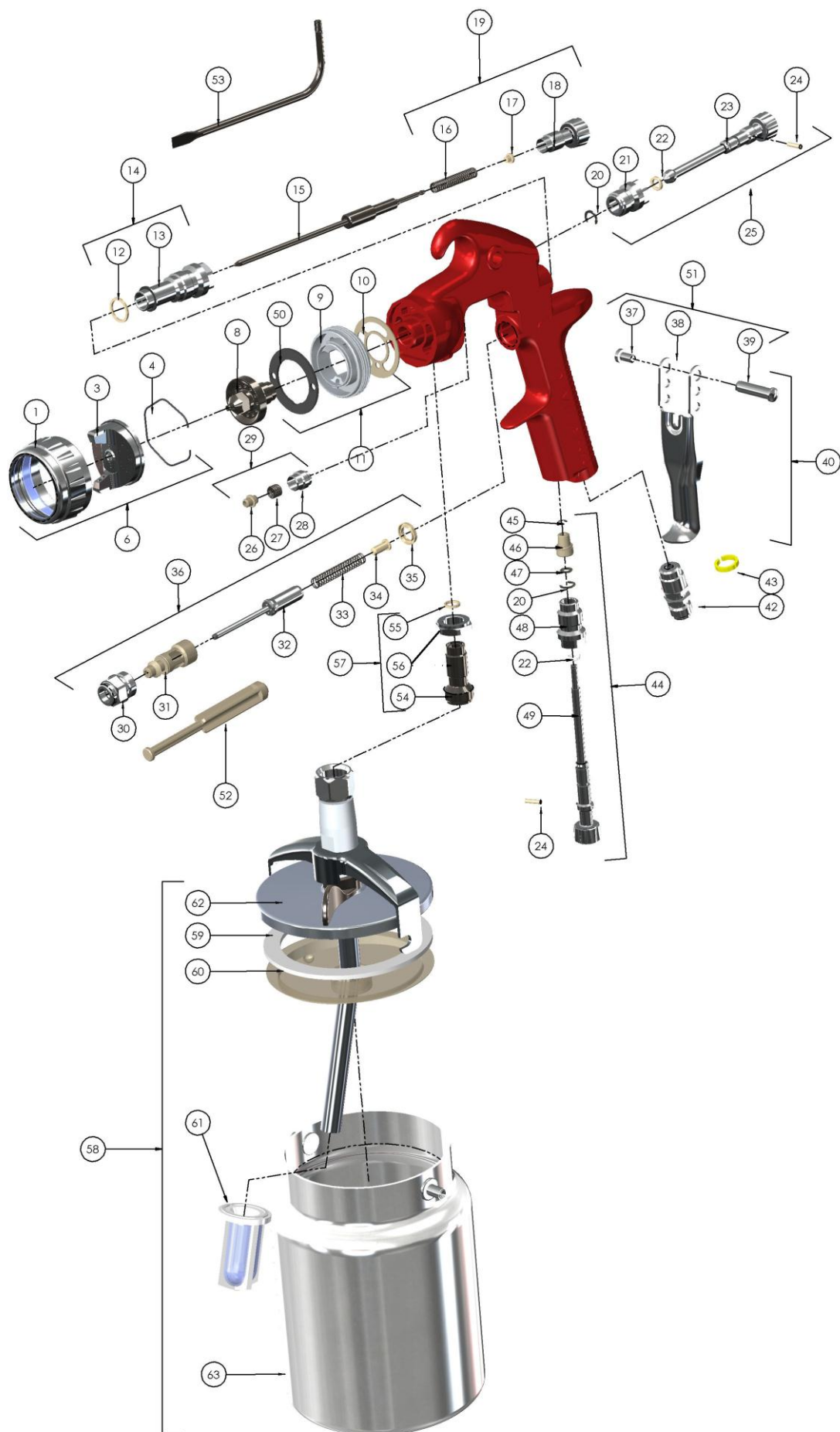
The A-weighted sound level of spray guns may exceed 85 dB (A) depending on the set-up being used. Details of actual noise levels are available on request. It is recommended that ear protection is worn at all times when spraying.

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 NO.	QTY	REF. NO.	DESCRIPTION	PART NO.	QTY
1	Air Cap Retaining Ring	PRO-405-K	1	36	Air Valve Assembly	SN-402-K	1
3	Air Cap	-	1	*37	Trigger Stud Screw (T20 TORX)	-	1
4	Air Cap Retaining Clip	JGA-156-K5	1	38	Trigger	-	1
6	Aircap & Ring	See chart 1 p14	1	*39	Trigger Stud	-	1
8	Fluid Nozzle	See chart 2 p14	1	40	Trigger, Stud & Screw Kit	SN-21-K	1
9	Spray Head	-	1	42	Air Inlet	SN-40-K	1
*10	Spray Head Seal (kit of 2)	SN-18-1-K2	1	43	Colour ID Ring Kit (4 Colours)	SN-26-K4	1
11	Spray Head & Seal Kit	SN-17-1-K	1	44	Airflow Valve	PRO-411-K	1
*12	Body Bushing Seal	-	1	45	Circlip	25746-007-K5	1
13	Body Bushing	-	1	46	Valve Head	-	1
14	Body Bushing & Seal	SN-6-K	1	47	Washer	-	1
15	Fluid Needle	See chart 2 p14	1	48	Valve Body	-	1
*16	Needle Spring	-	1	49	Valve Stem	-	1
*17	Needle Spring Pad	-	1	50	Baffle plate	SN-41-K	1
18	Fluid Adjusting Knob	-	1	51	Stud and Screw kit	SN-405-K5	1
19	Fluid Adjusting Knob, Spring & Pad Kit	PRO-3-K	1	52	Air valve Service Tool	-	1
*20	Retaining Clip	-	2	53	Torx Key	SPN-8-K2	1
21	Spreader Valve Body	-	1	54	Fluid Inlet Connector	-	1
*22	Spreader Valve Seal	-	2	55	Seal	-	1
23	Spreader Valve Adjusting Knob	-	1	56	Lock Nut	-	1
*24	Spreader Valve Pin	-	2	57	Fluid Inlet Connector Kit	PRO-12-K	1
25	Spreader Valve Assembly	PRO-404-K	1	Suction Cup Models only			
*26	Needle Packing	-	1	58	Suction Cup	KR-566-1-B	1
*27	Packing Spring	-	1	59	Cup Lid Gasket - kit of 3	KR-11-K3	1
28	Packing Nut	-	1	60	Drip Check Diaphragm- Kit of 5	KR-115-K5	1
29	Packing, Spring & Packing Nut Kit	SN-404-K	1	61	Filter – Kit of 10	KR-484-K10	1
30	Air Valve Body	-		62	Lid Assembly	KR-4001-B	1
31	Air Valve Cage	-	1	63	Cup	KR-466-K	1
32	Air Valve Poppet	-	1	SERVICE PARTS			
33	Air Valve Spring	-	1	Spray Gun repair kit (includes items marked *)		PRO-415-1	
34	Air Valve Spring Pad	-	1	Seal and Pin Kit, kit of 5 (items 20, 22 and 24)		GTI-428-K5	
35	Air Valve Seal	SN-34-K5	1	For accessories, see page 17			



INSTALLATION

For maximum transfer efficiency, do not use more pressure than is necessary to atomise the material being applied.

1. Connect the gun to a clean, moisture and oil free air supply using a conductive hose, of at least 8 mm I.D. (A DVFR filter /regulator is recommended).

NOTE

Install an air gauge at the gun handle. When gun is triggered on, adjust regulated pressure to 2.5 to 3.0 bar. Do not use more pressure than is necessary to atomise the material being applied. Excess pressure will create additional overspray and reduce transfer efficiency.

NOTE

If an air adjusting valve is used at the gun inlet, use DGIPRO-502-BAR Digital Gauge or HAV-501-B. Some competitive adjusting valves have significant pressure drop that can adversely affect spray performance.

2. **SUCTION MODELS ONLY.** Attach the cup lid assembly (62) to the fluid inlet connector (54). Position the yoke at right angles to the gun with the cam lever to the front (see picture). Make sure the vent hole in drip free diaphragm (60) is 180° to the lid vent hole.
3. **PRESSURE FEED MODELS.** Connect the fluid supply hose to Fluid inlet Connector (54).

NOTE

Before using the spraygun, flush it with solvent to ensure that the fluid passages are clean.

OPERATION (SUCTION MODELS)

1. Mix coating material to manufacturer's instructions and strain material.
2. Fill the cup to no more than 20 mm from the top of the cup. DO NOT OVERFILL.
3. Attach to Cup Lid.

ALL MODELS

4. Turn fluid adjusting knob (18) clockwise to prevent fluid needle movement.
5. Turn spreader valve adjusting knob (23) counter clockwise to fully open.
6. Adjust inlet air pressure to 2.5 to 3.0 bar.
7. Turn fluid adjusting knob counter clockwise until first thread shows.
8. Test spray. If the finish is too dry, reduce airflow by reducing air inlet pressure.
9. If finish is too wet, reduce fluid flow by turning fluid adjusting knob (18) clockwise. If atomisation is too coarse, increase inlet air pressure. If too fine, reduce inlet pressure.
10. The pattern size can be reduced by turning spreader valve knob (23) clockwise.

11. Hold gun perpendicular to surface being sprayed. Arcing or tilting may result in uneven coating.
12. The recommended spray distance is 150-200 mm.
13. Spray edges first. Overlap each stroke a minimum of 75%. Move gun at a constant speed.
14. Always turn off air supply and relieve pressure when gun is not in use.

PREVENTIVE MAINTENANCE & CLEANING

To clean air cap and fluid nozzle, brush exterior with a stiff bristle brush. If necessary to clean cap holes, use a broom straw or toothpick if possible. If a wire or hard instrument is used, extreme care must be used to prevent damaging the holes which will cause a distorted spray pattern.

To clean fluid passages, remove excess material from cup, or disconnect hose for pressure models, then flush with gun wash solution. Wipe the gun exterior with a dampened cloth. Never completely immerse in any solvent or cleaning solutions as this is detrimental to the lubricants and life of the spray gun.

NOTE

When replacing the fluid nozzle or fluid needle, replace both at the same time. Using worn parts can cause fluid leakage. See page 14, Chart 2. Also, replace the needle packing at this time. Torque the fluid nozzle to 18–20 nm. Do not over tighten.

CAUTION

To prevent damage to fluid nozzle (8) or fluid needle (15), be sure to either 1) pull the trigger and hold while tightening or loosening the fluid nozzle, or 2) remove fluid adjusting knob (18) to relieve spring pressure against needle collar.

SUCTION CUP. Empty excess material and clean the cup. Make sure the vent holes in the Diaphragm (60) and the lid (62) are clear.

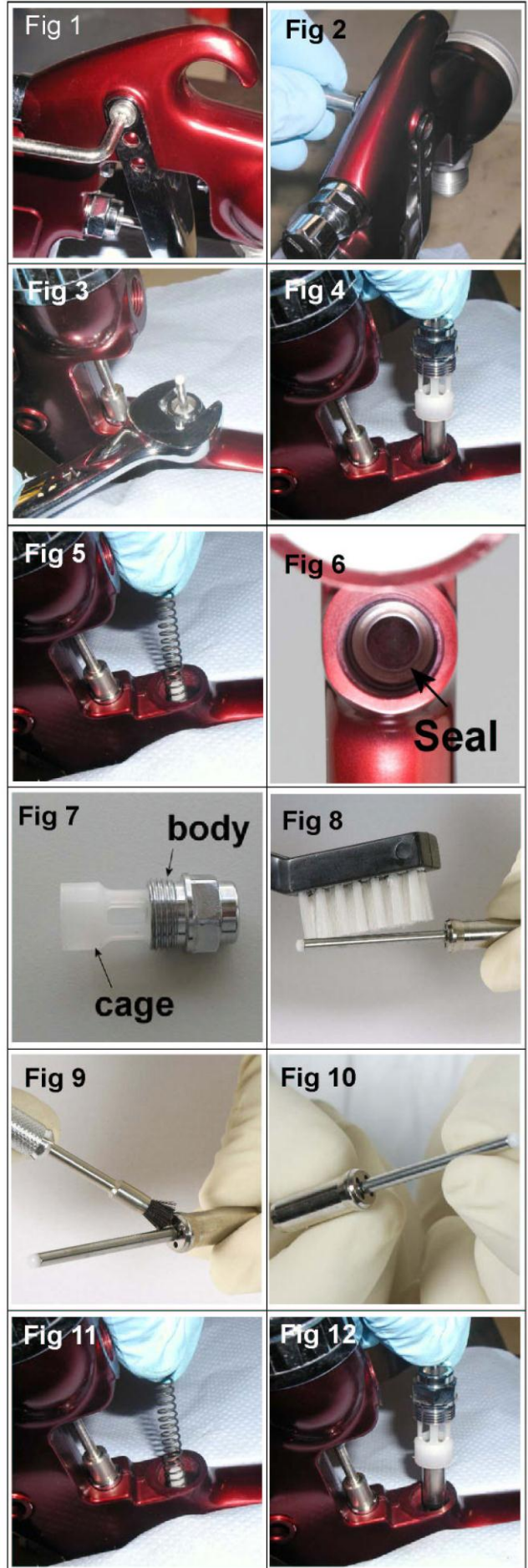
Parts Replacement/Maintenance

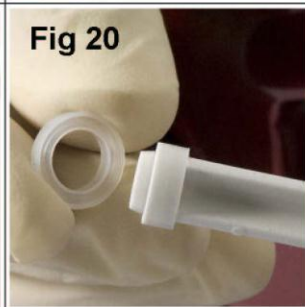
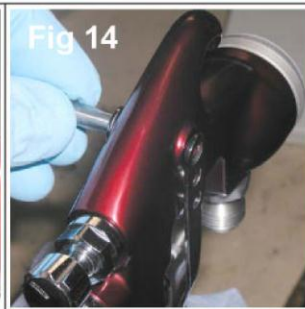
AIR VALVE INSTRUCTIONS

Servicing Air Valve

Reasons to service air valve:

- A) Air valve not functioning correctly (may need cleaning).
 - B) Routine maintenance.
 - C) Air leaks (advise replacement, see p10)
1. Remove trigger using the tool supplied (SPN-8) or TORX T20 key. (See fig 1 & 2)
 2. Unscrew air valve using SN-28 (14 mm) spanner. (See fig 3)
 3. Remove air valve by gripping stem. (See fig 4)
 4. Remove spring with spring pad. (See fig 5)
 5. DO NOT REMOVE REAR SEAL (35) FROM GUN BODY. (See fig 6)
 6. DO NOT REMOVE PLASTIC CAGE FROM AIR VALVE BODY AS THIS MAY DAMAGE THE CAGE. (See fig 7)
 7. CLEAN
 - a. Remove all paint build up. (See fig 8)
 - b. The 4 poppet holes must be clear. (See fig 9)
 - c. Stem must be free to float in poppet. (See fig 10)
 - d. Stem must slide through cage bore with slight resistance (due to seal).
 - e. Rear seal must look clean and in position in the bore. (See fig 6)
 - f. If any of the above cannot be rectified, replace the air valve (See Replacing Air Valve p10).
 8. Replace spring ensuring the end with the plastic bearing pad goes in first. (See fig 5)
 9. Insert air valve assembly into gun and carefully feed over the spring and through the rear seal. (See fig 11)
 10. Tighten air valve assembly using fingers first, and then tighten with SN-28 (14mm) Spanner. (See figs 12 & 3)
 11. Replace trigger. (See figs 2 & 1)
 12. If there is an air leak through the gun, the air valve may need replacing (See Replacing Air Valve).





Replacing Air Valve

Reasons to replace air valve:

- A) Air leak through the gun.
- B) Air valve not operating correctly.

1. Remove trigger using SPN-8 or TORX (T20) key provided in the kit. (See figs 13 & 14)
2. Unscrew air valve using SN-28 (14 mm) Spanner. (See fig 15)
3. Remove air valve by gripping the stem. (See fig 16)
4. Remove spring with spring pad. (See fig 17)
5. Hook out rear seal using Service Tool (52). (See figs 18 & 19)
6. Clean air valve bores in gun body with the brush supplied in the kit.
7. Place new rear seal onto Service tool (52); grooves must fit in service tool form. (See fig 20)
8. Push rear seal firmly into hole up to shoulder, using Service tool. (See figs 21 & 22)
9. Insert new spring, ensuring the end with the plastic bearing pad goes in first. (See fig 17)
10. Insert air valve assembly into gun and carefully feed over the spring and through the rear seal. (See fig 23)
11. Tighten air valve assembly using fingers first, and then tighten with SN-28 (14 mm) Spanner. (See figs 24 & 15)
12. Replace trigger. (See figs 14 & 13)

Parts Replacement/Maintenance

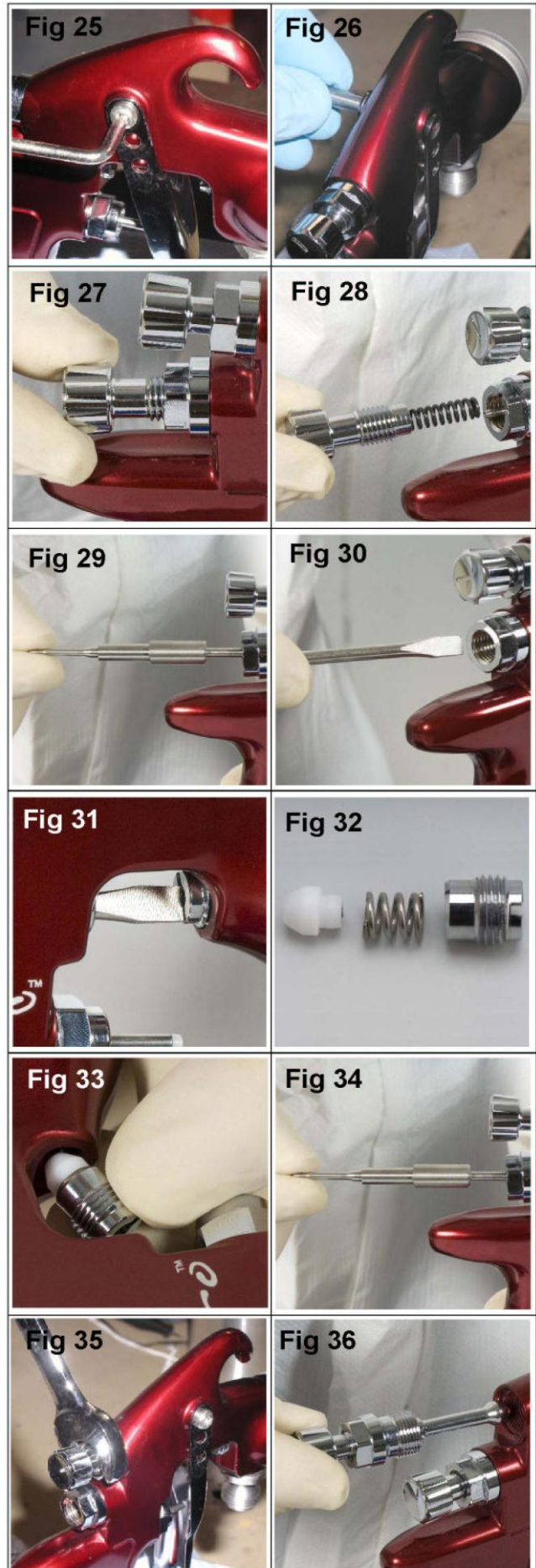
NEEDLE PACKING

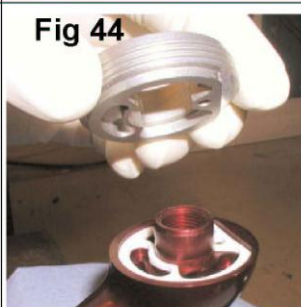
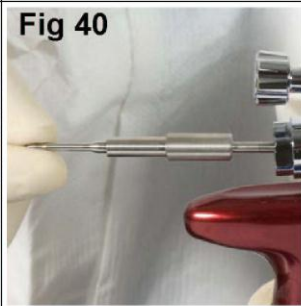
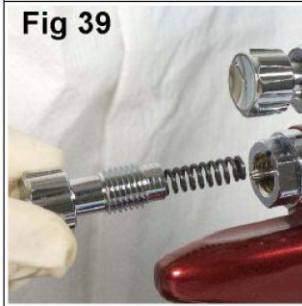
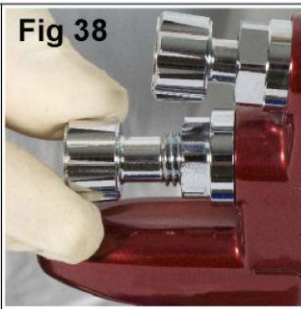
REPLACEMENT INSTRUCTIONS

13. Remove trigger using SPN-8 or TORX (T20) driver. (See figs 25 & 26)
14. Remove fluid adjusting knob and needle spring with spring pad from gun. (See figs 27 & 28)
15. Remove fluid needle from gun body. (See fig 29)
16. Loosen and remove packing nut using SPN-8 Key or a straight blade screwdriver. (See figs 30 & 31)
17. Discard old packing and packing spring if replacing. Clean packing if reusing. Also clean packing spring and nut. (See fig 32).
18. Re-assemble the packing, (See fig 32). Assemble into gunbody by hand (see fig 33) and then tighten. (See figs 30 and 31)
19. Insert fluid needle all the way into gun body, seating in fluid nozzle (See fig 34).
20. Insert needle spring, spring pad, and fluid adjusting knob. (See figs 28 & 27). Reinstall trigger. (See figs 25 & 26).
21. Trigger gun fully and screw in fluid adjusting knob until it stops. Back it off 1/2 turn and gun will have full needle travel.
22. Trigger gun several times to verify correct operation.

SPREADER VALVE ASSEMBLY REPLACEMENT/MAINTENANCE

The spreader valve assembly can be replaced if damaged. Remove using SN-28 (14 mm) Spanner (See figs 35 & 36). The internal seal can be replaced and is included in the GTI PRO Gun Rebuild Kit.





Parts Replacement/ Maintenance

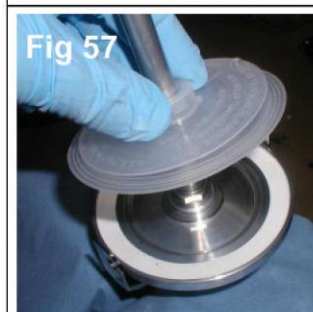
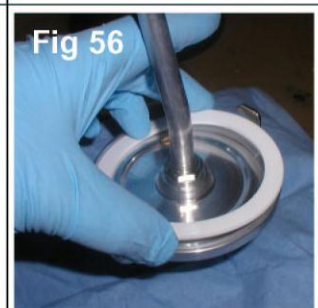
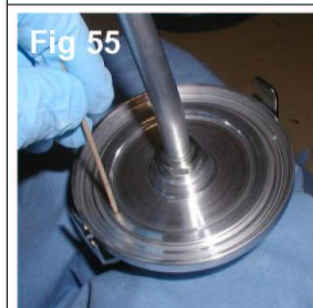
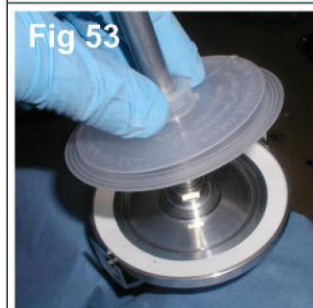
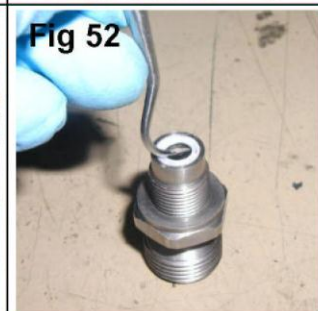
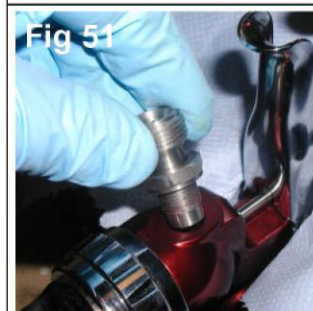
SPRAY HEAD SEAL REPLACEMENT

1. Remove air cap and retaining ring. (See fig 37)
2. Remove fluid adjusting knob, spring, and spring pad. (See figs 38 & 39)
3. Remove fluid needle from gun body. (See fig 40)
4. Remove fluid nozzle using SN-28 (10 mm) ring Spanner, and then remove the Front Plate. (See figs 41, 42 & 43)
5. Remove Spray Head. (See fig 44).
6. Clean Spray Head with a soft brush (See fig 45).
7. Remove Spray Head seal using a small screwdriver or pick. (See fig 46)
8. Clean front of gun if required, using a soft brush, as well as the Spray Head, fluid nozzle, air cap, and retaining ring. (See fig 47)
9. Place a new Spray Head Seal onto the front of the gun, making sure the flat on the seal is aligned with the flat in the gun. (See fig 48).
10. Fit the Front Plate onto the Spray Head, fit Spray Head to the Gunbody, ensuring the flat on the underside of the Spray Head locates with the flat in the Gun Body. Fit Fluid Nozzle, Air Cap, and Retaining Ring. Torque the Fluid Nozzle to 18–20 nm. Don't over torque the fluid nozzle. (See figs 44, 43, 42, 41 and 37)
11. Insert Fluid Needle all the way into the Gun Body, seating in the Fluid Nozzle. (See fig 40)
12. Reassemble Needle Spring, Spring Pad, and Fluid adjusting Knob. (See figs 39 & 38)
13. Trigger gun fully and screw in Fluid Adjusting Knob until it stops. Back it off 1/2 turn and gun will have full needle travel.
14. Trigger gun several times to verify correct operation.

Parts Replacement/ Maintenance

FLUID INLET SEAL

1. Loosen Locknut (56) with 18mm Spanner (see Fig 49).
2. Unscrew Fluid Inlet Adaptor (54) with 8mm Hex Key (see fig 50)
3. Remove Fluid Inlet Adaptor (see fig 51).
4. Remove seal (55) and replace with new Seal (see fig 52).
5. Replace Fluid Inlet Adaptor (see Fig 51).
6. Tighten with 8mm Hex Key (see Fig 50).
7. Tighten Lock Nut (56) with 18mm Spanner (see Fig 49).



SUCTION CUP LID

1. Remove drip free diaphragm (60). Clean or replace. Make sure the vent hole is kept clear. (See Fig 53).
2. Remove Cup Gasket (59) (see Fig 54).
3. Make sure the vent hole in the lid (62) is clean and not blocked. (See Fig 55).
4. It is recommended to replace the Cup Gasket (59) with a new one to avoid Cup leaks (see Fig 56).
5. Re-fit the Drip Free Diaphragm. Position the vent hole in the Diaphragm 180° away from the Vent hole. (see Fig 57).

Parts Replacement/Maintenance

Chart 1 – Air Caps

PART No. FOR AIR CAP	SUCTION OR PRESSURE	MARKING ON AIR CAP	RECOMMENDED INLET PRESSURE (bar)	AIR FLOW (L/min) @ 3 bar
PROC-120-C1-K	SUCTION	C1	2.5 – 3.0	250 - 300
PROC-120-C2-K	SUCTION	C2	2.5 – 4.0	255 - 400
PROC-120-C3-K	PRESSURE	C3	2.5 – 4.0	260 - 410

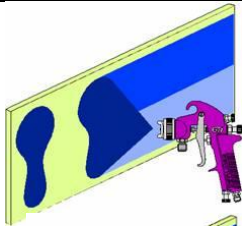
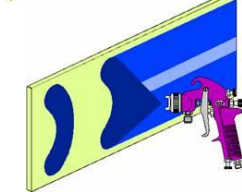
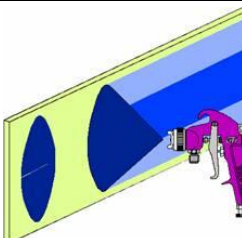
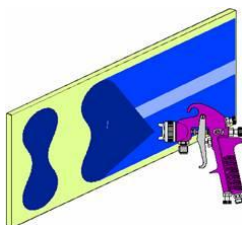
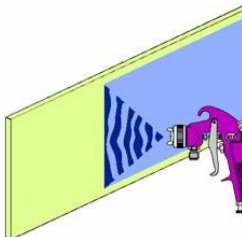
NOTE: When removing air cap from retaining ring, don't remove the Slip Ring (2) or Retaining Ring Seal (5) from the Retaining Ring. Damage to the parts may occur. Slip ring and Retaining Ring seal are not available as replacements. Simply wipe parts clean and reassemble with new or clean air cap.

Chart 2 – Fluid Nozzle Range & Fluid Needle

SPRAYGUN	PART No. ON FLUID NOZZLE	PART No. NEEDLE
JGA S PRO	PROC-220-16-K	JGAPRO-330-K
	PROC-220-18-K	
JGA P PRO	PROC-230-085-K	PRO-305-085-10-K
	PROC-230-10-K	
	PROC-230-12-K	PRO-305-12-14-K
	PROC-230-14-K	
	PROC-220-16-K	JGAPRO-330-K
	PROC-220-18-K	













NOTE: When replacing the fluid nozzle or fluid needle, replace both at the same time. Torque to 18–20 nm (13–15 ft-lbs). Don't over tighten the fluid nozzle. Use SN-28 10mm Spanner supplied with the gun and check with a torque wrench.

Troubleshooting Possible Problems in Operation

CONDITION	CAUSE	CORRECTION
<p>Heavy top or bottom pattern</p>  <p>Heavy right or left side pattern</p> 	<p>Horn holes plugged.</p> <p>Obstruction on top or bottom of fluid nozzle.</p> <p>Cap and/or nozzle seat dirty.</p> <p>Left or right side horn holes plugged.</p> <p>Dirt on left or right side of fluid nozzle.</p>	<p>Clean. Ream with non-metallic point.</p> <p>Clean.</p> <p>Clean.</p> <p>Clean. Ream with non-metallic point.</p> <p>Clean.</p>
<p>Remedies for the top-heavy, bottom-heavy, right-heavy, and left-heavy patterns:</p> <p>1. Determine if the obstruction is on the air cap or the fluid nozzle. Do this by making a test spray pattern. Then, rotate the cap one-half turn and spray another pattern. If the defect is inverted, obstruction is on the air cap. Clean the air cap as previously instructed. Also check for dried paint just inside the cap center hole opening; remove by washing with solvent.</p> <p>2. If the defect is not inverted, it is on the fluid nozzle. Clean nozzle. If problem persists, renew nozzle.</p>		
<p>Heavy centre pattern</p> 	<p>Spreader adjustment valve set too low.</p> <p>Atomising pressure too low.</p> <p>Material too thick.</p>	<p>Turn out counter clockwise to achieve correct pattern.</p> <p>Increase pressure.</p> <p>Thin to correct consistency.</p>
<p>Split spray pattern</p> 	<p>Air pressure too high.</p> <p>Fluid adjusting knob turned in too far.</p> <p>Spreader adjusting valve set too high.</p>	<p>Reduce at regulator or gun handle.</p> <p>Turn out counter clockwise to achieve correct pattern.</p> <p>Turn in clockwise to achieve correct pattern.</p>
<p>Jerky or fluttering spray</p> 	<p>Loose or damaged fluid nozzle/seat</p> <p>Loose or broken cup fluid nipple</p> <p>Material level too low</p> <p>Container tipped too far</p> <p>Obstruction in fluid passage</p> <p>Loose fluid needle packing nut</p> <p>Damaged fluid needle packing</p>	<p>Tighten or replace</p> <p>Tighten or replace cup</p> <p>Refill</p> <p>Hold more upright</p> <p>Back flush with solvent</p> <p>Tighten</p> <p>Replace</p>
<p>Paint bubbles in cup</p>	<p>Fluid nozzle not tight.</p>	<p>Tighten to 18–20 nm (13-15 ft-lbs).</p>
<p>Fluid leaking or dripping from cup lid</p>	<p>Cup lid loose.</p> <p>Damaged Cup Lid Gasket</p> <p>Fluid leaking from vent hole</p>	<p>Tighten Cup Lid.</p> <p>Replace Cup lid Gasket</p> <p>Clean drip free diaphragm</p>

Troubleshooting Possible Problems in Operation (cont)

Starved spray pattern	<p>Inadequate material flow</p> <p>Blocked vent in Cup lid</p> <p>Low atomisation air pressure</p>	<p>Wind fluid adjusting knob out or change to larger fluid nozzle size</p> <p>Clean lid and unblock vent</p> <p>Increase air pressure and rebalance gun.</p>
Excessive overspray	<p>Air pressure too high.</p> <p>Gun too far from work surface.</p>	<p>Reduce air pressure.</p> <p>Adjust to correct distance.</p>
Dry spray	<p>Air pressure too high.</p> <p>Gun too far from work surface.</p> <p>Gun motion too fast.</p> <p>Fluid flow too low.</p>	<p>Reduce air pressure.</p> <p>Adjust to correct distance.</p> <p>Slow down.</p> <p>Wind out needle adjusting screw or use larger nozzle size.</p>
Fluid leaking from packing nut	Packing or Fluid Needle worn.	Replace.
Fluid leaking or dripping from front of gun	<p>Fluid nozzle or fluid needle worn or damaged.</p> <p>Foreign matter in fluid nozzle.</p> <p>Fluid needle dirty or stuck in needle packing</p> <p>Wrong size fluid needle or fluid nozzle.</p>	<p>Replace fluid nozzle and fluid needle.</p> <p>Clean.</p> <p>Clean</p> <p>Replace fluid nozzle and fluid needle.</p>
Runs and sags	<p>Too much material flow.</p> <p>Material too thin.</p> <p>Gun tilted on an angle, or gun motion too slow.</p>	<p>Turn fluid adjusting knob clockwise or switch to smaller fluid nozzle and fluid needle size.</p> <p>Mix correctly or apply light coats.</p> <p>Hold gun at right angle to work and adapt to correct gun technique.</p>

ACCESSORIES					
DGi Digital Pressure Gauge	DGIPRO-502-BAR		600 cc Mixing Cups pack of 50	MC-1-K50	
Spanner	SN-406		10m x 8mm bore rubber air hose with 1/4 fittings	H-6065-B (BSP) H-6065-N (NPS)	
Torx driver			QD Female connector	MPV-424	
Cleaning Brush			QD male connector	MPV-5	
Cleaning Brush	4900-5-1-K3		DVFR Filter Regulator	DVFR-8	
Torx driver	SPN-8-K2		MPV Swivel	MPV-60-K3	

WARRANTY

This product is covered by Finishing Brands UK Limited one year warranty.

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