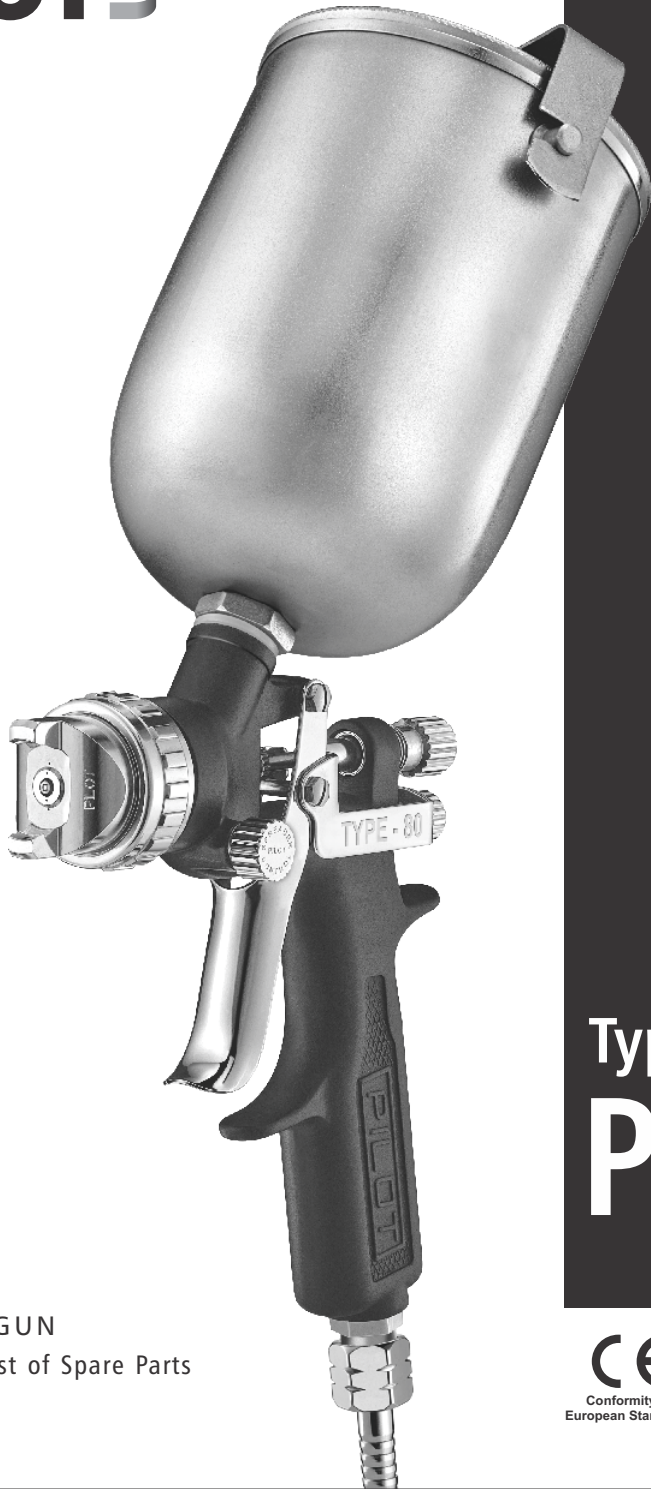


PILOT



PILOT SPRAY GUN
Service Sheet & List of Spare Parts

Type
P80

CE
Conformity to
European Standards

Dear Customer,

Now as you've brought home one of your favourite Pilot spray guns. We'd like to say a special 'thank you'. These precision-engineered tools have been designed to excel, making every spray job the work of a professional.

As you know Pilot has always spelt reliability and safety, earned by 5 decades of experience and overwhelming customer satisfaction. We are certain we have met all safety requirements. Our products bear the identification plate in conformance to the CE ruling.

To facilitate easy understanding of the working procedures please refer to the detailed instruction manual. Along with the manual you will also find a certificate with the declaration of conformity to various amendments.

Description

Type P-80 spray guns are easier to use than most spray guns. These lightweight gravity feed spray guns are suitable for production work on articles of medium or large sizes. They are ideal for spray-painting motorcar bodies, refrigerators, machinery, etc. Perfect balance, comfortable handle and trigger action makes them easy and non-tiring to operate. A knob on the left can easily control round to fan spray of pattern.

These gravity feed spray guns are supplied with a 0.75 lit. Gravity cup.

Important: These guns are not designed to be used with highly corrosive or highly abrasive coating materials. Violation may increase the need for thorough cleaning and /or the necessity for replacement of parts. If there is any doubt regarding the suitability of a specific material you may seek advice and /or submit a sample for test.

Training

Personnel should be given adequate training in the safe use and maintenance of this equipment. Training courses on all aspects of the equipment are available. For details contact your local representative. The instructions and safety precautions contained in this literature and the literature supplied with the coating material should be read and understood before the equipment is used.

Misuse

All spray guns project particles at high velocity and must never be aimed at any part of the body.

Never exceed the recommended safe working pressures for any of the equipment used.

The fitting of non-recommended or non-original accessories or spare parts may create hazardous conditions.

Before dismantling the equipment for cleaning or maintenance, all pressures, air and material, must be isolated and released.

The disposal of non-metallic materials must be carried out in an approved manner. Burning may generate toxic fumes. The removal of waste solvents and coating materials should be carried out by an authorized local waste disposal service.

The materials used in the construction of this equipment are (bearing in mind the warning on Halogenated Hydrocarbons) solvent resistant enabling the equipment to be cleaned using gun washing machines. However, this equipment must not be left inside the gun washing machine for prolonged periods of time after the automatic cleaning cycle has been completed. The solvents used in the gun washing machine should be regularly checked to ensure that the equipment is not flushed through with contaminated material. Follow the recommendations of the machine manufacturer.

Installation

IMPORTANT: To ensure that this equipment reaches you in first class condition, protective coatings, rust inhibitors, etc. have been used. Flush all equipment through with a suitable solvent before use to remove these agents from the material passages.

Attach the air supply line to the air intake connector (28). An air Compressor installed as close as possible to the gun will provide filtered and regulated air.

Recommended air hose sizes:

Attached air hose connector from a filtered regulated air supply.

Recommended air supply hose size up to 10 meters long (1/4 ") bore.

Attach the gravity feed cup to the material inlet and ensure that the sealing washer is compressed.

Operation

Mix, prepare and strain the coating material to be sprayed according to the paint manufacturers instructions. Use a lint free mesh to strain the material.

Fill the gravity feed cup with the material. Do not overfill. Ensure that the vent hole in the cup lid is clear.

Adjust the atomizing air pressure to 2.5 -5.0 kgs/sq.cm. (14 to 72 p.s.i.).

It requires air about (7 - 10 c.f.m.) 200 - 283 liter per minute depending on the liquid to be spray.

Close the needle valve adjusting screw by turning clockwise.

Turn on the air at the source of supply and spray test area by turning the needle valve adjusting screw counter-clockwise until a full coat is obtained.

If the finish is too sandy and dry, reduce the viscosity of the coating material supply by turning the adjusting screw counter-clockwise.

Increasing or decreasing the atomizing air pressure can also correct both the above. The most efficient atomizing air pressure is the lowest possible air pressure that will give the desired effect.

The gun should be held perpendicular to the spray surface at all times. Do not arc the gun as this produces an uneven coat of paint. The recommended spraying distance is between 230mm (9").

Preventive Maintenance

Cleaning

Turn off air supply and release pressure.

Empty surplus coating material from cup and clean.

Remove air cap and clean by immersing in solvent, brush or wipe clean. If any holes in the air cap are blocked use a toothpick or broom straw to remove the obstruction. Never use a steel wire or hard implement which will damage the air cap and result in a distorted pattern.

Lubrication

Lubricate all moving parts daily with a few drops of light oil and occasionally place a light coating of Vaseline on the needle spring. The packing may need to be oiled occasionally to keep them pliable.

Replacement Of Parts

Needle Valve (9)

1. Remove needle adjusting screw (12), spring (11) spring box (10) and needle (9). Replace any worn or damaged parts ensuring that the needle valve seats correctly in the fluid tip then adjust packing with needle packing nut (8) so that the movement of the needle is not restricted.

Needle Packing (7)

1) Remove needle valve as 1 above.

2. Remove trigger (22) and link (18) by unscrewing nut (20,21).






3. Remove packing nut (8) and packing (7). Replace any worn or damaged parts and re-assemble, reversing steps 1 to 3. Adjust packing so that the movement of the needle is not restricted.

Air Valve (13) Packing (7)

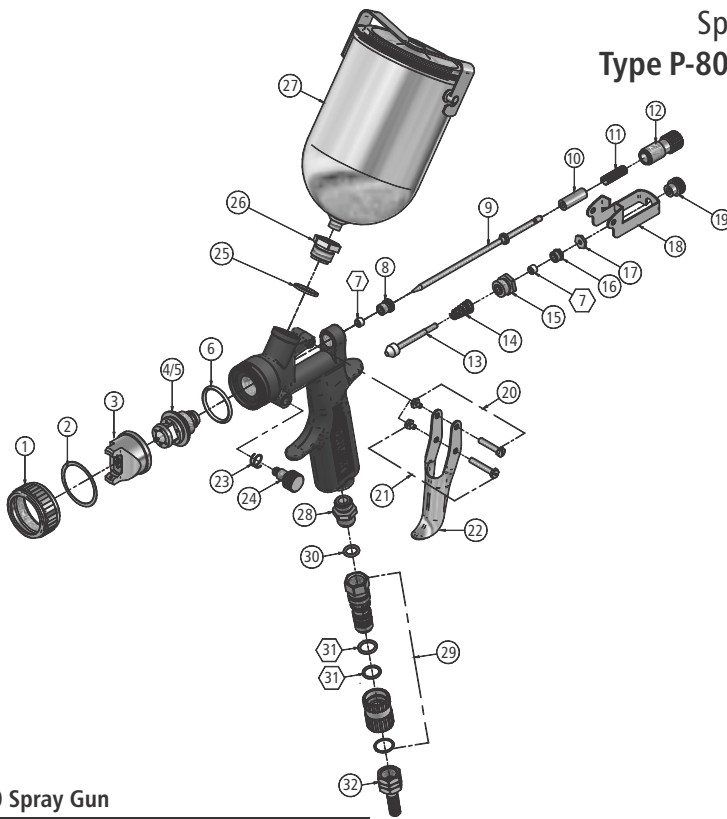
1. Remove needle valve as 1 above.

2. Remove air valve locking nut (19), pull trigger (22) and swing link (18) away, unscrew air valve packing box (15) and remove spring (14), valve (13), nuts (16 & 17) and packing (7). Replace any worn or damaged parts and re-assemble.

Service Checks - Troubleshooting

Fault	Cause	Remedy
Not spraying 	1. No pressure at the gun 2. Needle Adjusting Screw not properly adjusted.	1. Check air supply 2. Adjust
Uneven spray 	1. Material build up on air cap/nozzle 2. Coating material flow or viscosity incorrect	1. Clean air cap / nozzle 2. Adjust needle adjustment screw, or Reduce viscosity
Intermittent spray 	1. Insufficient material in cup 2. Gun material passage blocked 3. Loose or damaged nozzle 4. Needle sealing damage.	1. Fill cup 2. Clean 3. Tighten or replace 4. Replace
Fluid leakage from packing nut 	1. Needle packing damage	1. Replace packing.
Dripping from the nozzle 	1. Damaged nozzle or needle 2. Foreign substances between fluid tip and needle prevent sealing	1. Replace 2. Clean needle and nozzle in thinner or Replace.

Spare Parts for Type P-80 Spray Gun



Type P 80 Spray Gun

List of Spare Parts Type P 80

Sr. No.	Description	Code No.
	Spray Gun Type P 80 with S.S. Top Feed Cup 0.75 Litre	80000
1	Air Cap Locking Nut	80001
2	Air Cap Washer	80002
3	Air Cap	80003
4	M.S. Nozzle	80004
5	S.S. Nozzle	80005
6	Nozzle Gasket	80006
7	Packing Bush	80008
8	Needle Packing Nut	80009
9	Needle Valve	80010
10	Needle Spring Box	80011
11	Needle Spring	80012
12	Needle Adjusting Screw	80013
13	Air Valve Pin	80014
14	Air Valve Spring	80015
15	Air Valve Packing Box	80016
16	Air Valve Packing Box Washer	80017
17	Air Valve Washer	80018
18	Link	80019

Sr. No.	Description	Code No.
19	Air Valve Locking Nut	80020
20	Fulcrum Screw	80021
21	Trigger & Link Screw	80022
22	Trigger	80023
23	Spreader Control Spring	80024
24	Spreader Control Valve	80025
25	Nylon Cup Washer	80026A
26	Cup Bottom Part	80026B
27	S.S. Top Feed Cup 0.75 Litre	80026
28	Air Intake Connector	80027
29	Air Control Valve	80028
30	Air Intake O Ring	80028A
31	Air Control Body O Ring Small	80028D
32	Hose Coupling	80029
33	M.S. Repair Kit	80080M
34	S.S. Repair Kit	80080S

Accessories

* This Set Contains An Air Cap, Nozzle, Needle, Air Valve Pin & Packing.

@ Please Mention Nozzle Size While Ordering Spare Parts.

Manufactured by :

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