



INSTRUCTION MANUAL

M 250 / M 350 AIRLESS MANUAL SPRAY GUNS

MP 200 AIRLESS HANDLE

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Dear Customer,

You are the owner of our new AIRLESS gun and we would like to take this opportunity to thank you.

To make sure your investment will provide full satisfaction, special care has been taken by KREMLIN during all designing and manufacturing processes.

To obtain the best result, safe and efficient operation of your equipment, we advice you to read and make yourself familiar with this instruction and service manual. Indeed, the non-compliance with instructions and precautions stated in this manual could reduce the equipment working-life, result in operating trouble and create unsafe conditions.

1. EC DECLARATION OF CONFORMITY FOR MACHINERY

The manufacturer : **KREMLIN REXSON** with assets of 6 720 000 Euros

Head office : 150, avenue de Stalingrad 93 245 - STAINS CEDEX - FRANCE

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Herewith declares that : Spray gun, is in conformity with :

EC - Maquinery Directive (Directive 98/37/EC) as amended and with national implementing legislation.

Established in Stains, on March 1st 2003,

Daniel TRAGUS
President

2. SAFETY INSTRUCTIONS



WARNING : Any misuse of the equipment or accessories can damage them, result in serious body injury, fire or explosion hazard and reduce the equipment working life. Read, understand and comply with the safety instructions hereafter.

The personnel involved in operating and servicing the equipment must be aware of all the safety requirements stated in this manual. The workshop supervisor must be certain that the personnel has perfectly understood the safety instructions and complies with them.

Read all instruction manuals as well as the tags of the equipments before operating the equipment.

Refer to local safety instructions and comply with them.

■ INSTALLATION REQUIREMENTS

➔ Interconnect the equipments with ground.

Use the equipment only in a properly ventilated area to maximize health care. Any misuse of the spray equipment or accessories can damage them and result in serious body injury, fire or explosion hazard. Do not smoke in the spray area.

Never store paints and solvents in the spray area. Always close the pots and the tins.

Always keep the spray area clean and free from debris (solvent, rags,...).

Read paint and solvent manufacturer's technical instructions.

Spraying of some materials may result in hazardous working conditions. To protect the operator, respirator mask, hand cream and glasses are required (Refer to chapter "Safety equipment" of KREMLIN selection guide).

■ EQUIPEMENT REQUIREMENTS

The operating pressure of these equipments are particularly high. Consequently, some precautions must be taken in order to prevent from accidents and from unsafe working conditions.

➔ Never exceed the components maximum working pressure of the equipment.

HOSES

Do not use hoses with a maximum burst-proof pressure less than four times the maximum service pressure of the pump (see data sheet).

Be certain the hoses are not crimped, leaking and not unrolled.

Be certain the hoses are in good condition and showing no evidence of damage.

➔ Use only air hose with static conductor to connect the pump with the spray gun.

All fittings must be tight and in good condition.

PUMP

➔ Interconnect the equipment with ground (use the connection provided on the pump).

Do not use any product or solvent incompatible with the pump components.

Use the appropriate solvent for the material being sprayed to increase the equipment working life.

GUN

Never wipe the end of the tip with fingers.

Never point the spray gun at anyone or at any part of the body.

Always lock the trigger with the safety device when not servicing the gun.

Always depressurize air and hoses before carrying out any servicing on the gun.

■ MAINTENANCE REQUIREMENTS

➔ Never modify these equipments.

Check them daily, keep them in a good condition and replace the worn parts **only with KREMLIN parts.**

Before cleaning or removing components of the equipment, it is compulsory :

- to stop the pump by shutting off the compressed air supply,
- to open the drain valve,
- to point the spray gun into a waste receptacle and press the gun trigger to depressurize the system,
- to lock the gun trigger with the safety device.

3. OPERATION

The M 250 and M 350 guns may be used with or without extension poles length 300 or 600 mm (+ 900 or 1800 mm for MP 200 handle) with an angle head or not.

The projector is composed of : base (hand-tight or wrench-tight), tip (reversing or flat).

For MP 200 handle a selection of rollers (9" x 1/2" - 9" 3/4" - 9" 3/8") is available to be fitted directly to the handle or at the extremity of a 900 or 1800 mm extension pole.

4. SERVICING

Before doing any service work on gun, installing or removing spray tip or filter..., :

- Shut off the pump air pressure,
- Lock the gun trigger with the safety device,
- Relieve pressure from circuit by opening pump pressure relief valve,
- Carefully loosen gun swivel slightly to relieve any residual pressure.

➡ **Never work on gun when connected to hose.**

Always engage trigger lock-off when gun is not spraying.

■ **COMPLETE BALL VALVE PLUNGER ASSEMBLY (M 250) REPLACEMENT (REFER TO DOC. 573.173.050)**

Unscrew base (1) then valve seat (2) - wrench # 19.

Unsnap trigger guard (3) from bottom of gun handle (7).

Unscrew nut (25) (use wrench provided with the gun), remove push rod tree (24) and push rods (22 and 23).

Push ball valve assembly (4) from rear to remove it. Lubricate with vaseline.

Replace ball valve assembly (4) and valve seat (2) with new ones. Reassemble the gun by following the previous operations in the reverse order.

Screw on nut (25) until one thread is showing through the nut ➡ do not force past this point. However, if nut is not screwed in far enough, improper trigger adjustment will result. By screwing valve seat (2) push rod tree (24) must lightly move back.

■ **COMPLETE BALL VALVE PLUNGER ASSEMBLY (M 350) REPLACEMENT**

Unscrew base (1) and nut (28) in seat (29) with the wrench provided.

Unsnap trigger guard (3) from bottom of gun handle (7).

Unscrew nut (25) (use wrench provided with the gun), remove push rod tree (24) and push rods (22 + 23).

Push ball valve assembly (30) from rear to remove it. Lubricate with vaseline.

Replace ball valve and seat assembly (30) with new one.

Reassemble the gun by following the previous operations in the reverse order.

Hand tighten retainer nut (28) (in the seat 2), tighten nut (25) then pull trigger back and tighten retainer nut with wrench provided.

■ **GUN FILTER (M 250 / M 350) REPLACEMENT**

Remove gun swivel (7) from the gun. Unsnap trigger guard (3) from bottom of gun handle.

Unscrew gun handle (20) and remove gun filter (19). Clean or replace filter (19).

Lubricate threads with vaseline and tighten gun handle (20) (using wrench if necessary).

■ COMPLETE BALL VALVE PLUNGER ASSEMBLY (MP 200) REPLACEMENT

Unscrew trigger pad guide (18).

Holding trigger adjustment nut (16) with wrench, loosen and remove lock nut (17), adjustment nut (16) and trigger pad (15).

Unscrew valve seat (4) and remove valve plunger (6) from the gun : be sure that O-Ring (in the back) is also removed when the valve plunger assembly is removed.

Replace ball valve plunger assembly (6) and valve seat (4) with new one.

Install trigger pad (15), with recess end facing to the rear and install parts (16 and 17).

Hold trigger lightly while threading adjustment nut (16) forward. As nut tightened, permit trigger to move up until it makes firm contact with the safety lock-off part.

Hold nut (16) in position with wrench, then tighten lock nut (17) with a second wrench. Replace trigger pad guide (18) and tighten.

■ HANDLE FILTER (MP 200) REPLACEMENT

Unscrew filter enclosure (19), remove gasket (5) and handle filter (7) to change it.

- ➔ **After service work on gun always engage trigger lock-off and follow pump safety instructions for starting pump. Release the lock after inspection of eventual leaks of the complete system under pressure.**

5. CLEANING

Change material with solvent and spray until the fluid is not colored with material.

Remove base and tip to clean them with a brush (no metallic parts) and solvent. Insist particularly on threads.

Do not keep the dipping in solvent.

6. FIXING AND TIGHTNESS OF AIRLESS® TIP

- ➔ Fixing of reversing tip on the gun is ensured by the base (P.N° 922.562.000). Tightness is ensured by the tip gasket (P.N° 922.004.018 by 8).
- ➔ Fixing of flat tip on the gun is ensured by the base (P.N° 922.004.202). Tightness is ensured by the tip gasket (P.N° 922.004.018 by 8).

7. AIRLESS® REVERSING TIPS

Flow low viscosity at 140 bar (l/mm)	Equiv Ø (mm)	Recommended gun filter (mesh)	Spray angle					P.N° : 922.055.xxx (replace the crosses with the 3 figures - Eg. Tip 517 – P.N°. 922.055.517)
			30°	40°	50°	60°	90°	
			Fan width (mm) at 30 cm					KIND OF MATERIAL
15-20	20-25	25-30	30-35	45-50				
0,454 l/mn	0,28	red (150)	311	411				Lacquers
0,643 l/mn	0,33	red (150)	313	413	513	613		Varnishes
0,870 l/mn	0,38	yellow (100)	315	415	515	615		Primers
1,136 l/mn	0,43	yellow (100)	317	417	517	617		Solvent-based materials
1,360 l/mn	0,48	white (50)		419	519	619		Acrylic
1,741 l/mn	0,53	white (50)		421	521	621		Vinylic, medium pasty waterproofing products
2,50 l/mn	0,63	white (50)			525		925	Medium pasty, front
3,33 l/mn	0,74	white (50)			529		929	Large flow, pasty