



**INSTRUCTION MANUAL**

**MANUAL SPRAY GUN**

**# 630 900 0101 - 630 900 0201**

**630 900 0301 - 630 900 0401**

**Manual : 574.143.112 - 0803**

***Date : 04/03/08 – Supersede : 25/07/06***

***Modif. : Parts list update***

**IMPORTANT : Read and understand all instructions before storing, installing and operating concerned equipment (professional use only).**

PICTURES AND DRAWINGS ARE NOT CONTRACTUAL. THE MATERIAL MAY BE CHANGED WITHOUT PRIOR NOTICE.

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Dear Customer,

You are the owner of our new equipment 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 REXSON 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.

## 01. EC DECLARATION OF CONFORMITY

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

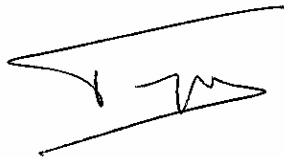
Head office : 150, avenue de Stalingrad 93 245 - STAINS CEDEX - FRANCE

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Herewith declares that : Manual spray gun is in conformity with the provisions of :

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

Established in Stains, on March 1 st 2003,



Daniel TRAGUS  
President

## 02. WARRANTY

We reserve the right to make changes; these changes may be carried out after the receipt of the order. No claim will be accepted as a consequence of any change carried out in the instruction manuals or in the selection guides.

Our equipment is checked and tested prior to shipment. In the case of a problem arising with the equipment, this must be in writing, within ten days from the delivery date.

KREMLIN REXSON warrants all equipment manufactured bearing its name, to be free from defect in material or workmanship for a period of 12 months (one shift per day or 1800 hours - 1 term reached) from the date of delivery. Work life is based on single shift working - 8 hours per day. Warranty claims for defective items will only be accepted in writing and will be verified and confirmed by us.

The warranty does not cover fair wear and tear, damage or wear caused by misuse, improper maintenance or non-observance of our recommendations.

KREMLIN REXSON will repair or replace parts (carriage paid to our plant and accepted as defective by us). We shall not be liable for any losses resulting from a production breakdown. Upon request, we can carry out service work at your premises; all expenses (travelling and accommodation) for KREMLIN REXSON technicians will be chargeable.

In the event that it is found that equipment has been tampered with, this will invalidate the warranty. Equipment that is bought in will be subject to the suppliers' warranty.

### 03. SAFETY INSTRUCTIONS

#### GENERAL SAFETY INSTRUCTIONS



**CAUTION : The equipment can be dangerous if you do not use it according to the rules mentioned in this instruction manual. Read carefully all the instructions hereafter before operating your equipment.**

**Only trained operators can use the equipment.** (To acquire an essential training, please contact the "KREMLIN REXSON University" training center - Stains).

The foreman must ensure that the operator has perfectly taken in the safety instructions of this equipment as well as the instructions in the manuals of the different parts and accessories.



















Read carefully all instruction manuals, label markings before operating the equipment.

Incorrect use may result in injury. This equipment is for professional use only. It must be used only for what it has been designed for. Never modify the equipment. The parts and accessories supplied must be regularly inspected. Defective or worn parts must be replaced.

**Never exceed the equipment components' maximum working pressure.**

Comply with regulations concerning safety, fire risks, electricity in force in the country of final destination of the material. Use only products or solvent compatible with the parts in contact with the material (refer to data sheet of the material manufacturer).

#### PICTOGRAMS

					
NIP HAZARD	WARNING MOVING ELEVATOR	WARNING MOVING PARTS	WARNING MOVING SHOVEL	DO NOT EXCEED THIS PRESSURE	HIGH PRESSURE HAZARD
					
RELIEF OR DRAIN VALVE	WARNING HOSE UNDER PRESSURE	WEAR GLASSES OBLIGATORY	WEAR OF GLOVE IS OBLIGATORY	PRODUCT VAPOR HAZARDS	WARNING HOT PARTS OR AREAS
					
ELECTRICAL HAZARD	WARNING FIRE HAZARDS	EXPLOSION HAZARDS	GROUNDING	WARNING (USER)	WARNING SERIOUS INJURIES

## PRESSURE HAZARDS



Current legislation requires that an air relief shut off valve is mounted on the supply circuit of the motor to let air off when closing the supply circuit. Without this precaution, the motor residual air of the motor may let the pump beat and cause a serious injury.

Please ensure that, a material drain valve is mounted on the material circuit to drain it (after shutting down air to the motor and the pressure relief) before any servicing on the equipment. These valves must be closed for air and opened for product when processing.

## HIGH PRESSURE INJECTION HAZARDS



When working with high pressure equipment, special care is required. Fluid leaks can occur. Then there are injection risks in exposed parts of body that may cause severe injuries or amputations.

- Medical care must be handled immediately if product is injected under the skin or in other parts of the body (eyes, fingers).
- Never point the spray gun at anyone. Never try to stop the spray with your hands or fingers nor with rags or similars.
- **Follow the shutdown procedure and always depressurize air and fluid circuits** before carrying out any servicing on the gun (cleaning, checking, maintenance of the material or cleaning of the gun nozzles).
- For the guns equipped with a safety device, always lock the trigger when you do not start the gun.

## FIRE - EXPLOSION - SPARKS- STATIC ELECTRICITY HAZARDS



A poor earth connection, inadequate ventilation, sparks, or static electricity can cause an explosion or fire. To avoid these risks when using or servicing KREMLIN REXSON equipment, the following safety procedures must be followed:

- ensure a good earth connection and ground the parts to be handled i.e. solvents, materials, components and equipment,
- ensure adequate ventilation,
- keep working area clean and free from waste solvents, chemicals, or solid waste i.e. rags, paper and empty chemical drums,
- never use electrical switches / power if in an atmosphere of volatile solvent vapour,
- stop immediately working in case of electrical arcs,
- never store chemicals and solvents in the working area.

## TOXIC PRODUCT HAZARDS

Toxic products or vapours can cause severe injury not only through contact with the body, but also if the products are ingested or inhaled.

It is imperative :



- to know the material products and their risks,
- notified or hazardous materials must be stored in accordance with the regulations,
- the materials must be used in an appropriate container, never place materials in a container where there is a risk of spillage or leakage,
- a procedure must be applied for the safe disposal of waste material. It must comply with all the prevailing regulations and legislations of the country where the equipment is to be used,
- protective clothing should always be worn in compliance with the material manufacturers recommendations,
- depending on the application and chemical safety instructions, safety glasses, gloves, foot wear, protective masks and possible breathing equipment should be worn to comply with the regulations. (Refer to chapter "Safety equipment" of KREMLIN selection guide).

### **CAUTION!**



It is forbidden using any solvent or with halogenated hydrocarbon base and also products with these solvents facing **aluminium** or **zinc**. The non-compliance with the instructions may cause explosion hazards causing serious or fatal injuries.

## EQUIPMENT REQUIREMENTS

### **PUMP**



Before carrying out any work, it is imperative to get used with the compatibilities of motors with fluid sections before coupling. The operator shall understand the equipment and the safety instructions. These instructions are available in the manuals of the pumps.

The air motor is designed to be mounted with a fluid section. Never modify any components or couplings. When operating, please keep hands away from moving parts. Before starting up the equipment, please read the PRESSURE RELIEF INSTRUCTIONS. Please ensure that any relief or drain valves fitted are in good working order.

### **HOSES**

- Keep hoses out of circulation areas, moving parts or hot surfaces.
- Never expose product hoses to temperatures higher than + 60°C / 140° F or lower than 0°C / 32° F.
- Never pull or use the hoses to move the equipment.
- Tighten all fittings as well as the hoses before operating the equipment.
- Check the hoses regularly, change them if they are damaged

Never exceed the working pressure indicated on the hose (WP).

**USED PRODUCTS**

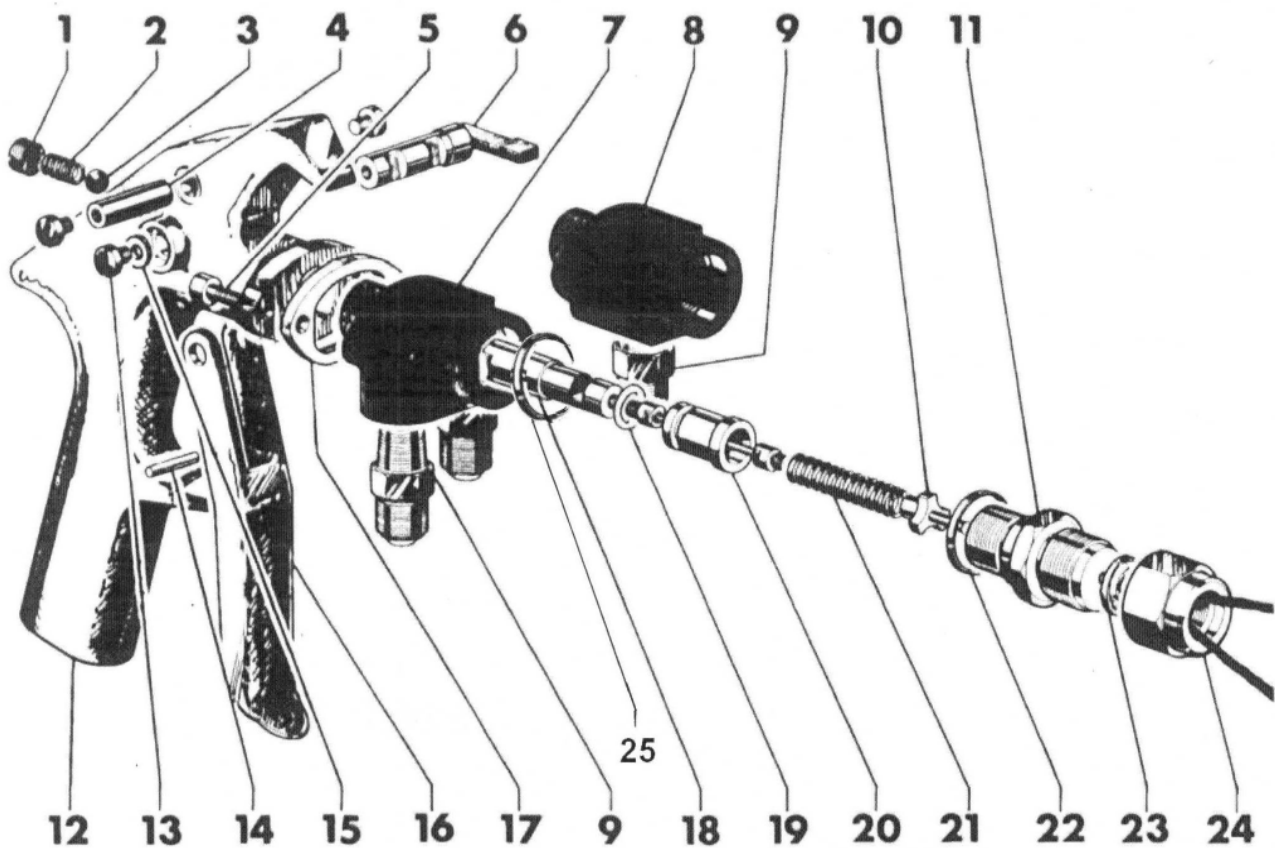
Considering the variety of products that may be used by the users and the impossibility to check off all chemical data, of possible reactions of chemicals to each other and their long term evolution, KREMLIN REXSON can not be considered as liable for :

- the bad compatibility of wetted parts,
- risks for staff and surroundings,
- for worn or out of order parts, for wrong working of equipments or units, as well as for the qualities of final product,

The user must know and prevent the possible risks as toxic vapours, fires or explosions due to used products. He shall determine the risks of immediate reactions or pursuant to repeated exposures of the staff.

KREMLIN REXSON shall not be liable for psychic injuries, direct or indirect material damages further to the use of chemicals.

**04. EXPLODED VIEW**



HP MANUAL GUN (400 bar / 5801 psi)	STANDARD	STAINLESS STEEL
WITHOUT CIRCULATION	# 630 900 0101	# 630 900 0301
WITH CIRCULATION	# 630 900 0201	# 630 900 0401

## 05. PARTS' LIST

COMMON PARTS						
Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
1	630 814	Vis	Screw	Schraube	Tornillo	1
2	630 816	Ressort	Spring	Feder	Muelle	1
3	86 006	Bille	Ball	Kugel	Bola	1
4	630 899	Axe	Axis	Achse	Eje	1
5	933 151 219	Vis, CHc M4x16	Screw, model CHc M4x16	Schraube, CHc M4x16	Tornillo, tipo CHc M4x16	2
6	630 897	Verrou	Bolt	Riegel	Cerrojo	1
12	630 801	Corps	Body	Körper	Cuerpo	1
13	933 091 097	Vis, CBL M4x6	Screw, model CBL M4x6	Schraube, CBL M4x6	Tornillo, tipo CBL M4x6	3
14	88 482	Goupille	Pin	Splint	Pasador	1
15	963 040 012	Rondelle, MU4	Washer, model MU4	Scheibe, MU4	Arandela, tipo MU4	1
16	630 804	Gâchette	Trigger	Abzugshebel	Gatillo	1
*17	NCS / NSS	Plaquette	Plate	Platte	Placa	1
18	630 820	Crochetage gâchette	Trigger hook	Abzughebelhäkeln	Gancho gatillo	1
*19	NCS / NSS	Joint FKM	FKM seal	FKM Dichtung	Junta FKM	1
*22	NCS / NSS	Rondelle d'étanchéité	Tightness washer	Dichtungsscheibe	Arandela de estanqueidad	1
*23	NCS / NSS	Joint	Seal	Dichtung	Junta	1
24	91 575	Embout de protection	Protection end	Schutzstück	Terminal de protección	1

SPECIFIC PARTS						
Ind	#	Désignation	Description	Bezeichnung	Denominación	Qté
<b>630 900 0101 : gun without circulation</b>						
8	630 901	Tête (mono passage)	Head (one passage)	Kopf	Cabezal (solo paso)	1
9	550 542	Raccord, MM 1/4"G-1/4" JIC	Fitting,, model double male, 1/4"G-1/4" JIC	Anschluß, MM 1/4"G-1/4" JIC	Racor, tipo MM 1/4"G-1/4" JIC	1
10	630 806	Pointeau	Needle	Nadel	Aguja	1
11	630 803	Embout	End	Endestück	Terminal	1
*20	NCS / NSS	Cartouche	Cartridge	Packung	Cartucho	1
21	630 808	Ressort	Spring	Feder	Muelle	1
*	<b>101 187</b>	<b>Pochette de joints</b>	<b>Seal kit</b>	<b>Dichtungssatz</b>	<b>Bolsa de juntas</b>	<b>1</b>
<b>630 900 0201 : gun with circulation</b>						
7	630 802	Tête (double passage)	Head (two passages)	Kopf	Cabezal (doble paso)	1
9	550 542	Raccord, MM 1/4"G-1/4" JIC	Fitting, model double male 1/4"G-1/4" JIC	Anschluß, MM 1/4"G-1/4" JIC	Racor, tipo MM 1/4"G-1/4" JIC	2
10	630 806	Pointeau	Needle	Nadel	Aguja	1
11	630 803	Embout	End piece	Endestück	Terminal	1
*20	NCS / NSS	Cartouche	Cartridge	Packung	Cartucho	1
21	630 808	Ressort	Spring	Feder	Muelle	1
*	<b>101 187</b>	<b>Pochette de joints</b>	<b>Seal kit</b>	<b>Dichtungssatz</b>	<b>Bolsa de juntas</b>	<b>1</b>



<b>630 900 0301 : stainless steel without circulation</b>						
7	630 891	Tête (mono passage)	Head (one passage)	Kopf	Cabezal (solo paso)	1
9	550 636	Raccord, MM 1/4"G-1/2 JIC	Fitting, model double male 1/4"G-1/2 JIC	Anschluß, MM 1/4"G-1/2" JIC	Racor, tipo MM 1/4"G-1/2" JIC	1
10	630 898	Pointeau	Needle	Nadel	Aguja	1
11	630 914	Embout	End piece	Endestück	Terminal	1
*20	630 892	Cartouche	Cartridge	Packung	Cartucho	1
21	630 916	Ressort	Spring	Feder	Muelle	1
*	<b>101 236</b>	<b>Pochette de joints</b>	<b>Seal kit</b>	<b>Dichtungssatz</b>	<b>Bolsa de juntas</b>	<b>1</b>
<b>630 900 0401 : stainless steel with circulation</b>						
8	630 921	Tête (double passage)	Head (two passages)	Kopf	Cabezal (doble paso)	1
9	550 636	Raccord, MM 1/4"G-1/2" JIC	Fitting, model double male 1/4 G-1/2 JIC	Anschluß, MM 1/4"G-1/2" JIC	Racor, tipo MM 1/4"G-1/2 JIC	2
10	630 898	Pointeau	Needle	Nadel	Aguja	1
11	630 914	Embout	End piece	Endestück	Terminal	1
*20	630 892	Cartouche	Cartridge	Packung	Cartucho	1
21	630 916	Ressort	Spring	Feder	Muelle	1
*	<b>101 236</b>	<b>Pochette de joints</b>	<b>Seal kit</b>	<b>Dichtungssatz</b>	<b>Bolsa de juntas</b>	<b>1</b>

<b>Seal kit (standard version)</b>						<b># 101 187</b>
Ind	#	Désignation	Description	Description	Denominación	Qté
17	NCS / NSS	Plaquette	Plate	Platte	Placa	1
19	NCS / NSS	Joint FKM	FKM Seal	FKM Dichtung	Junta FKM	1
20	NCS / NSS	Cartouche	Cartridge	Packung	Cartucho	1
22	NCS / NSS	Rondelle d'étanchéité	Tightness washer	Dichtungsscheibe	Arandela de estanqueidad	1
23	NCS / NSS	Joint	Seal	Dichtung	Junta	1
25	NCS / NSS	Joint	Seal	Dichtung	Junta	1

<b>Seal kit (stainless steel versions)</b>						<b># 101 236</b>
Ind	#	Désignation	Description	Description	Denominación	Qté
17	NCS / NSS	Plaquette	Plate	Platte	Placa	1
19	NCS / NSS	Joint FKM	FKM Seal	FKM Dichtung	Junta FKM	1
20	NCS / NSS	Cartouche	Cartridge	Packung	Cartucho	1
22	NCS / NSS	Rondelle d'étanchéité	Tightness washer	Dichtungsscheibe	Arandela de estanqueidad	1
23	NCS / NSS	Joint	Seal	Dichtung	Junta	1
25	NCS / NSS	Joint	Seal	Dichtung	Junta	1

- \* Pièces de maintenance préconisées tenues en stock
- \* Preceding the index number denotes a suggested spare part.
- \* Bezeichnete Teile sind empfohlene Ersatzteile.
- \* Piezas de mantenimiento preventivo a tener en stock.

- N C S : Non commercialisé seul.
- N S S : Denotes parts are not serviceable separately.
- N S S : Bezeichnete Teile gibt es nicht einzeln, sondern nur komplett.
- N C S : no suministrado por separado.

## 06. USE INSTRUCTIONS

### VERY IMPORTANT

Never bring into contact the port of the gun nozzle with skin when the installation is under pressure.

The paint fan pattern is sprayed under very important pressure and speed. It acts as a needle and can cause serious injuries.

Consequently, before intervening on the nozzle, carry out the depressurization procedure to depressurize air and material circuits of the installation by :

- triggering the gun,
- shutting supply air of the motor and draining air on the circuit opening the valve located upstream of the motor air inlet,
- opening the valve located usually under the material filter to depressurize the material hoses,
- releasing the trigger.

## 07. MAINTENANCE AND DISASSEMBLY

### A - CLEANING OR CHECKING OF THE NOZZLE

- Unscrew the protective end (24),
- Take off the nozzle, clean it and change it (if when working the material fan pattern angle gets reduced and the output important),
- Remove and check the seal (23); change it if necessary.

### B - CHECKING OF THE CARTRIDGE

- Unscrew the protective end (24) and get back the seal (23),
- Unscrew and take off the end (11), check the seat, change it if necessary,
- Get back the tightness washer (22), check and change if necessary,
- Unscrew the 2 screws (5) of the trigger,
- Unscrew the 2 screws (13),
- Take off the axis (4),
- Get back the trigger (16),
- Take off the head block from the gun body,
- Get back the plate (17), check and change it if necessary,
- Take off the head (7 or 8),
- Unscrew the screw (1), get back the spring (2), the ball (3); unscrew the screw (13) and remove the washer (15),
- Take off the trigger hook (18),
- Unscrew the needle (10), check and change it if necessary,
- Remove the spring (21),
- Take off and change the seal (19), change it if necessary,
- Check the mechanism and the seal located at the bottom of the cartridge (20); if one of the parts is damaged, you must change the whole.

### C - ASSEMBLY

Carry it out in the reverse order of the disassembly.

## **08. TROUBLES - CAUSES - SOLUTIONS**

### **A - PARTIAL OR TOTAL FALL OF THE MATERIAL**

- The nozzle is clogged : clean or change it if necessary,
- Check there is no fall of pressure or a general network stop,
- Check the pumping group is operating correctly,
- Check the condition of the circuit filters,
- If these reasons are not in question, disassemble the gun.

### **B - LEAKAGE FROM THE GUN WHEN NOT WORKING**

- Check impurity does not prevent the needle from closing,
- Check the needle (10) and the end seat (11),
- Check the cartridge (20).

### **C- LEAKAGE FROM THE GUN WHEN WORKING**

Check and change eventually the seal (23).