KSK Spray Gun

Light-Weight

Fatigue-Free

Electrically-Safe

Easy to Operate

KSK INTERNATIONAL

OPERATING INSTRUCTIONS

1. The **Adjustable Roller** on top of the gun controls the degree of atomization of fluid. Before you set atomization with adjusting roller, first turn volume control knob counter-clockwise (left) until it stops. Approximate setting for maximum pressure for textile cleaning is at a point where 1/16" to 1/32" clearance is between rear of air intake hole and forward extremity of barrel housing (this point is located just forward of the housing hook on top of the gun) Adjustable Roller moves more easily if you hold back of gun firmly and press nozzle towards center In most cases the adjusting roller should be set so that maximum pressure is achieved (the gun will operate most smoothly when this adjustment is achieved), and then should not be tampered with. Unnecessary changes with the adjusting roller often results in the gun getting moved out of adjustment causing the gun to stop pumping cleaning fluid The unit may work itself out of adjustment through vibration at which time it should be adjusted.
2. The **Volume Control Knob** at the rear of the gun controls the volume of cleaning fluid sprayed and the width of the spray. Always adjust the spray from the widest point, which occurs when the knob is turned as far left as possible. Turn the knob clockwise as you operate the gun, until you arrive at spray width desired.
3. **Troubles In Operation :** The valve is subject to normal wear in the course of time if the gun does not draw up liquid, although the drive runs properly, inspect the valve taper for traces of wear. You can easily replace the valve yourself.
   Important : In case of a clogged nozzle or dirty valve you need not, as a rule, dismantle the entire pump. Simply unscrew the nozzle, then clean it thoroughly, as well as the valve.

SPOT CLEANING AND STAIN REMOVAL

For best resulte, follow these suggestions :

1. Cloth to he cleaned should he in vertical of inclined position
2. Cloths should rest against a stainless steel of other rustproof screen. A fan system behind screen exhausts staining matter and fumes.
3. Hold Model 105 with atomization spray properly adjusted, from six to eight inches from cloth. Aim gun directly, not at an angle. Then press switch button to clean spot. Concentrate on heavily soiled areas and hold nozzle closer if necessary.
4. Pull gun back to about 18 to 25 inches from fabric, then press switch and move in a circular motion - feathering or tapering the cleaned area so that wicking and subsequent circling will not occur.

SAFETY PRECAUTIONS

1. Provide adequate **ventilation** when using indoors and in confined areas. Avoid inhalation of cleaning fluids.
2. The gun produces an extremely high pressure ; therefore., do not touch nozzle or spraying jet while spraying. **Never** point the gun at yourself or anyone else.
3. Withdraw plug from socket any time when dismantling or removing parts.

MAINTENANCE

1. **Lubrication :** The cleaning gun should be sprayed through with a light machine oil at the end of each working day, for preference, or at least whenever the gun may set idle for a period such as a weekend. This can be accomplished by pumping 6-8 drops of lubricant through the induction pipe for three or four seconds. Before resuming cleaning operation, flush oil residues out of the pump again with a little cleaning solvent from a separate container. Also, pour a few drops of oil into the rear hole at the top of the housing if gun is set for a period.
2. Never spray abrasive liquids such as water, etc, through the gun as this will corrode pump parts. If water is sprayed through the gun, flush the water from the pump parts by spraying cleaning fluid through it immediately after use... then lubricate.
3. Do not operate gun without cleaning fluid as this will cause undue wear and strain on pump parts. If gun ceases to pump cleaning fluid, investigate for cause rather than operate dry.

4. Becorne familiar with the sound the gun makes when operating smoothly and properly. Listen for any change in sound which may be caused from gun being out of adjustment of parts failure.
5. **Lack of pressure** : A lack of pressure occurs when the prime is lost from the induction pipe due to excessive tilting. Lack of pressure will occur when small particles of for eign matter stop up the induction pipe, pump, piston head or jet head. This can be overcome by cleaning the pump unit. Lack of pressure will occur when either of the springs in the pump unit become weak or damaged. Lack of pressure will occur the piston or intermediate pin in the pump assembly becomes corroded or badly worn. Lack of pressure will occur when all parts such as the induction pipe, set screw, and jet head are not tight and the unit is sucking air. Lack of pressure will occur when the volume control knob is turned too far in a clockwise direction. Lack of pressure will occur if the viscosity of the solution being pumped is too high Extremely thick fluids cannot be pumped efficiently as will be evidenced by lack of pressure and spurting of fluid being pumped.

REPAIR PARTS AND MAJOR GUN REPAIRS

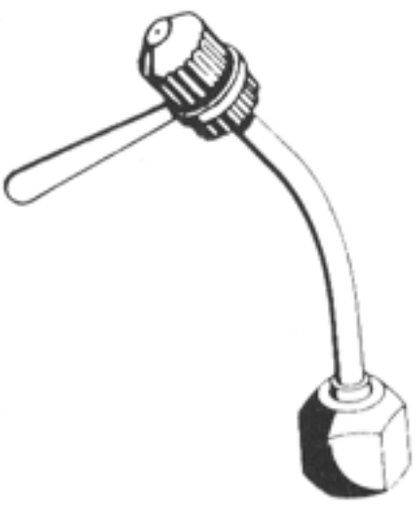
Normally, any repairs which are needed to the guns are minor in nature and we suggest that they be examined for apparent mirror malfunctions. This inspection will probably involve disassembly of the pump unit and perhaps removal of the housing cover for examination. In practically all cases, these minor repairs can be made quickly without significant loss of time from operation. Should there be obviously damaged parts which may be replaced, said parts should be ordered directly from agent by number taken from the parts list supplied in the instruction sheet.

Should a gun need major repair, the unit should be carefully packaged and returned to agent. All repairs will be made quickly.

ADJUSTABLE NOZZLE

Convenient pressure control is the added feature of the adjustable nozzle. High pressure is needed to clean heavy, close-textured fabrics. So set the nozzle to a concentrated jet for such jobs.

To remove spots from delicate fabrics, a low pressure is quite sufficient. Turn the nozzle head to set a loose, light jet. Reduced pressure is also needed to prevent any shift and distortion in the fabric weave.



This adjustable nozzle slightly curves downward for most convenient working. It also permits convenient adjustment of spray jet width and with it spraying pressure.

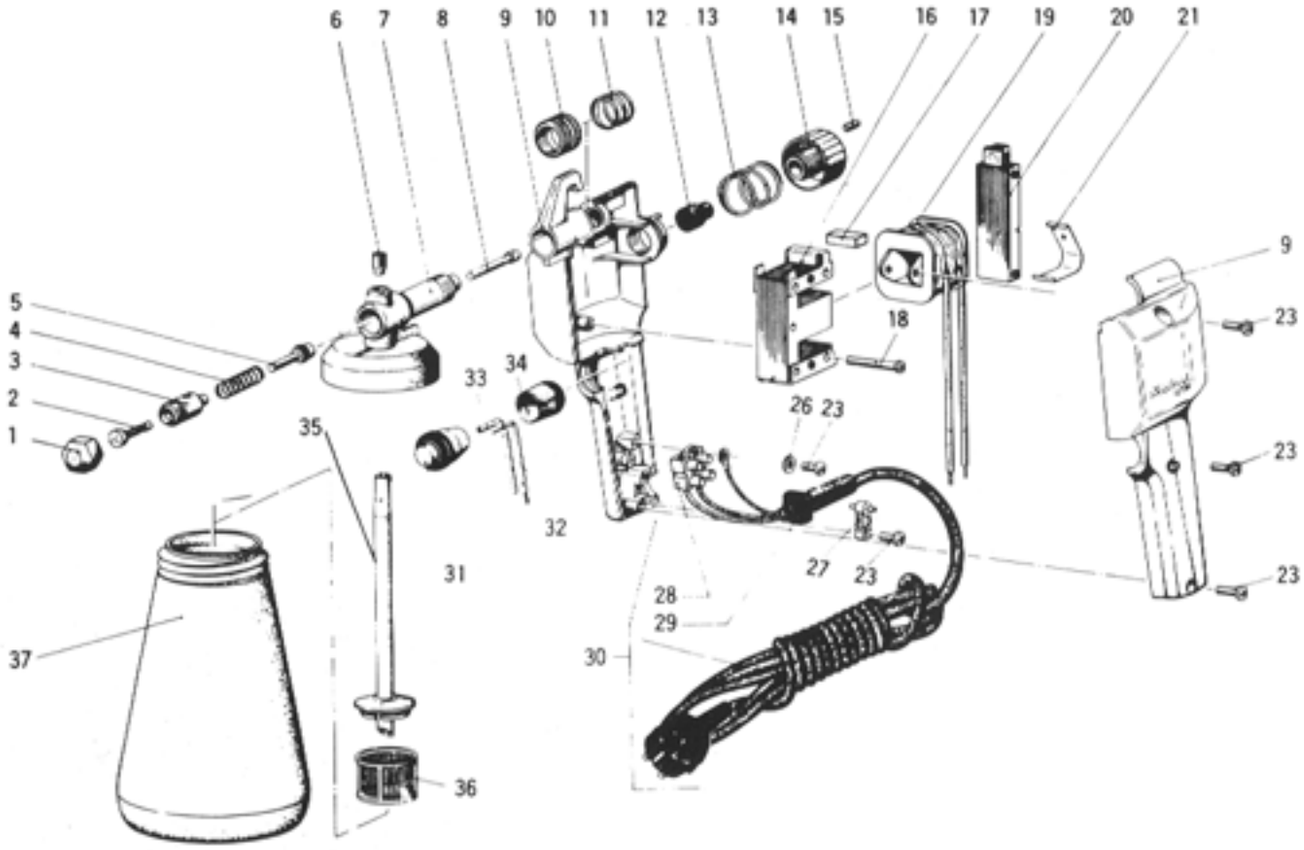
The nozzle is so designed that, correctly set, you can vary the cone spray with the greatest ease from concentrated jet (maximum pressure) to very loose jet (reduced pressure) by moving the lever on the nozzle head through a setting range of 180°. The nozzle is sealed inside by a special Teflon ring. Should it begin to leak after extended service, run down the nozzle head tightly against locking ring.

DIRECT SUCTION TUBE

The Direct Suction Tube eliminates the time-consuming task of refilling cleaning gun container cup. Cleaning gun may be operated continuously without interruption, direct from drum or pail. Quick fittings allow for easy disconnection of tubing for lubrication or maintenance of cleaning gun. Comes equipped with 12 feet of dual nylon tubing for convenient adaptability to cleaning station. Recommended for full-time inspection stains.

AIR DRYER ATTACHMENT

Easily attaches to the 105 Cleaning Gun to dry fluid quickly. Eliminates potential of circles and rings caused by cleaning fluid. Requires in plant air source of 60 to 100 PSI.



Spare parts list

Pos.	Description
1	Nozzle ø 0,4mm
2	Valve complete
3	Pump cylinder compl
4	Piston spring
5	Piston
6	Slotted grub screw with full dog point M 8 × P 1.0
7	Pump housing
8	Intermediate push rod
9	Housing complete
10	Adjusting roller
11	Adjusting roller spring
12	Buffer
13	Brake spring
14	Volume control knob
15	Hexagon socket headless screw M4 × 10 DIN 913
16	Stator complete
17	Damper part
18	Screw M 3.5 × 30 (4)
19	Drive coil 220V, 50Hz Drive coil 220V, 60Hz Drive coil 240V, 50Hz Drive coil 100V, 50Hz Drive coil 100V, 60Hz Drive coil 110V, 50Hz Drive coil 110V. 60Hz
20	Vibrating armature
21	Leaf spring
23	Screw M4 × 12 (4)
26	Washer 4,3 DIN 433
27	Cable anchorage
28	Terminal block
29	Grommet for connection cord
30	Connection cord complete with American type plug (UL) 3m (10ft) Connection cord complete with Great Britain type plug 3m (10ft) Connection cord complete without plug 3m (10ft)
31	Switch flash proof
32	Switch lead
33	Insulating hose
34	Switch cap
35	Suction tube
36	Suction cup with mesh
37	Container