

## **KML1000 Series Premium Large Striper Spray Gun**

### **Operations and Parts Manual**

The KML1000 spray gun is a premium-quality gun manufactured to handle all water-borne, alkyd base and heavy VOC traffic paints. It has the same quality workmanship as any high-quality spray gun on the market. This series of spray gun can be either setup as a bleeder style or non-bleeder style configuration.

#### 1. Operating air hose:

We recommend that you use ¼” air line and mount all solenoids as close to spray guns as possible. If this is not an option, mount quick exhausts on spray guns, to allow for air to exhaust quickly when solenoid shut off. Hook this line to the ¼” N.P.T. fitting on top of spray gun.

#### 2. Atomizing air hose:

For the atomizing air, you can use 3/8” air hose from your regulated air to be connected to the 3/8” N.P.T. fitting on top of spray gun.

**PLEASE NOTE: DO NOT INVERT LINES 1 & 2**

#### 3. Paint hose:

KML1015 spray gun paint hose should be from 3/8” to 3/4”  
KML1020 spray gun paint hose should be from 3/8” to 3/4”

**PLEASE NOTE:** For more paint volume, the larger the paint hose used, will give more volume even at the same working pressure of your paint system.

#### 4. Solvent flush hose:

For the solvent flush hose, all you require is a ¼” hose. This will be connected to a 3 - way valve, located close to operator. This feature is only required on the non-bleeder style spray gun. This will allow operator to flush solvent through exterior nozzle like a bleeder style spray gun.

### **Spray gun selection:**

The size of gun will be determined by the speed of your operation and the size of compressor (cfm available) on your striper. The following chart should aid in determining the size of gun required.

Gun size	CFM required	Air consumpt.	Min. speed	Max. speed
KML-1010	15 – 25 cfm	50 – 100 psi	5.5 mph	11 mph
KML-1015	15 – 25 cfm	50 – 100 psi	10 mph	16 mph
KML-1020	15 – 25 cfm	50 – 100 psi	10 mph	19 mph

### **Operating Instructions:**

The operating pressure on piston of spray gun should be approximately 70 – 90 psi. This will give good response time on guns turning on.

Ambient temperature and material temperature at spray nozzle will determine the atomizing and paint pressure. This premium quality spray gun can operate with the atomizing pressure lower than the material pressure intern giving a larger effective output of material at nozzle of gun can.

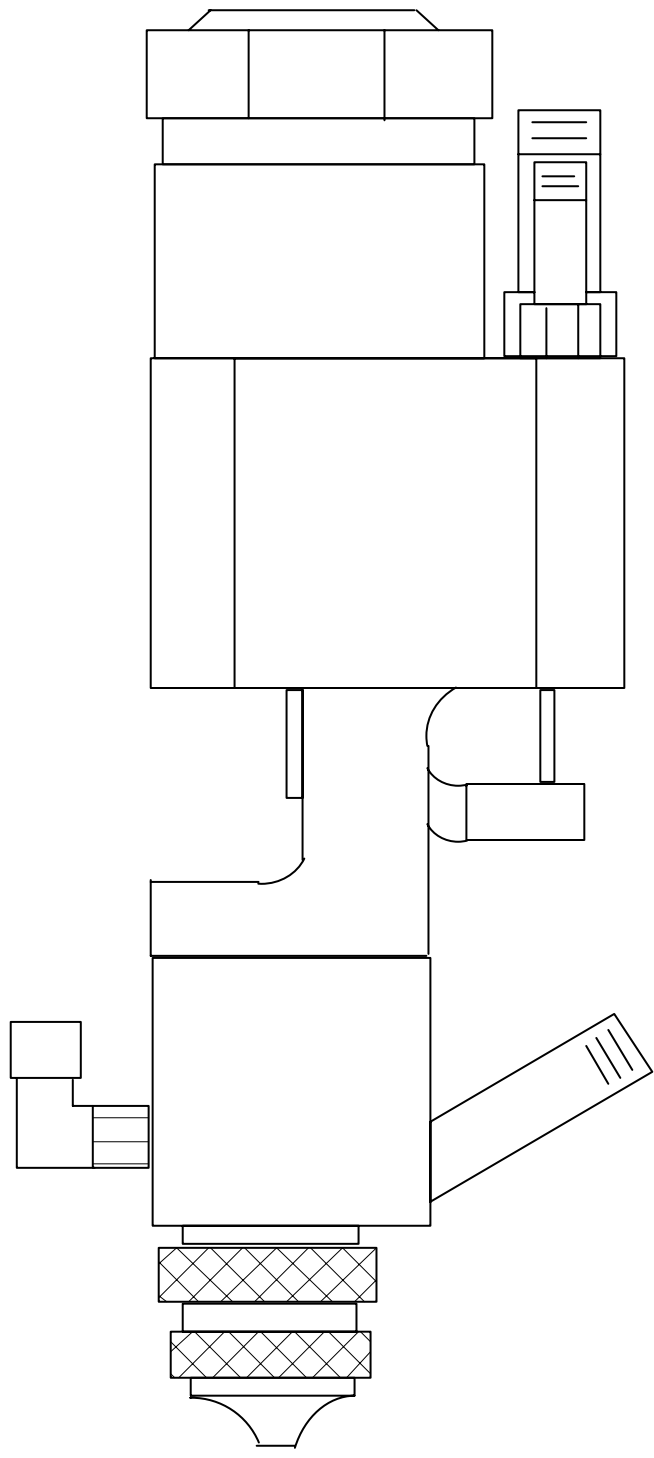
A starting working pressure on paint would be 50 – 60 psi and on atomizing pressure 60 – 70 psi. Now you can adjust according to ambient and material temperature along with striping speed of truck.

**Very Important:** Always remove exterior nozzle (nozzle with slot)

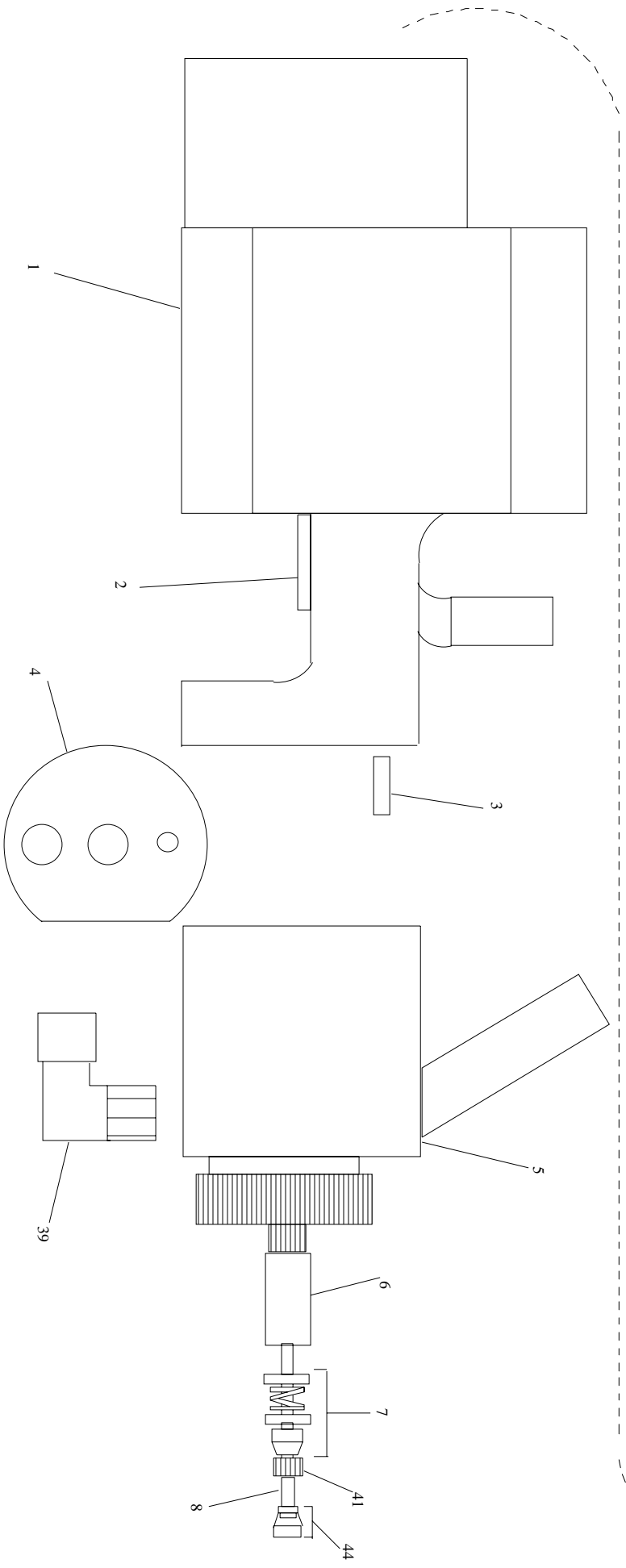
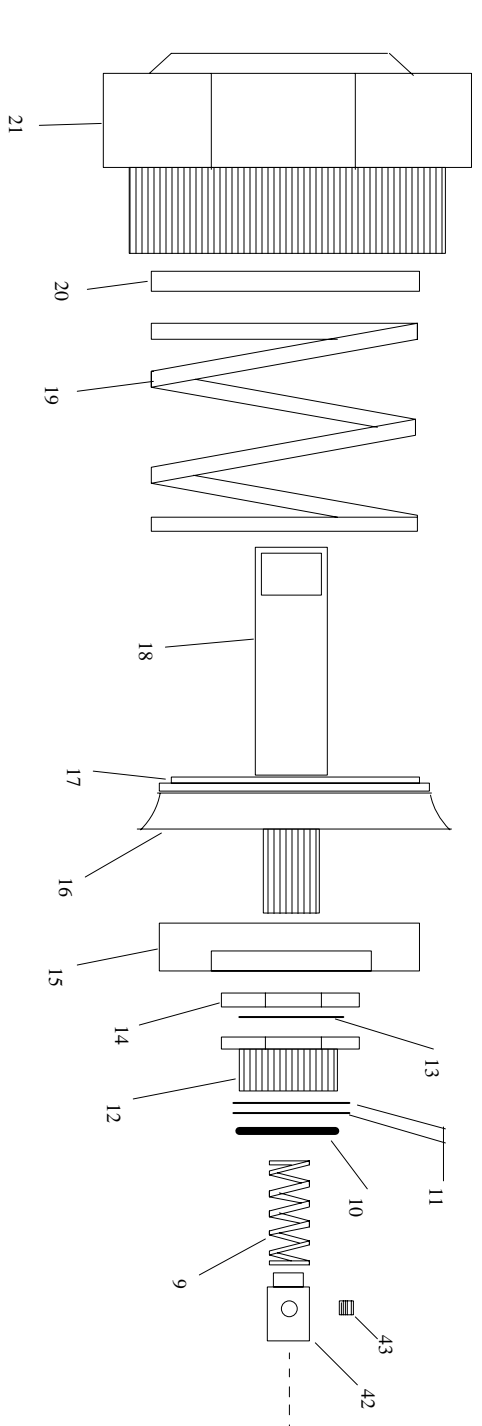
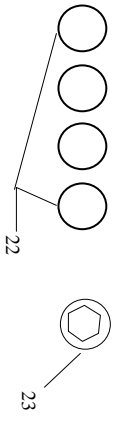
For flushing of the paint passage of the gun, always remove exterior nozzle, otherwise the paint is forced back up the atomizing line of gun. Maximum flushing pressure on solvent is 15 to 30 psi.

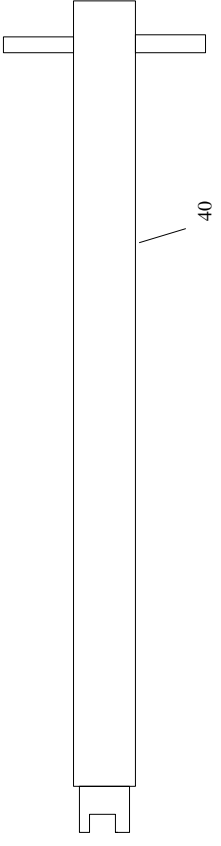
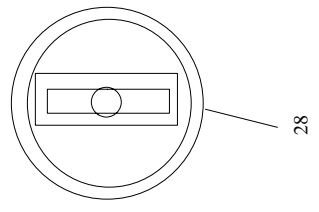
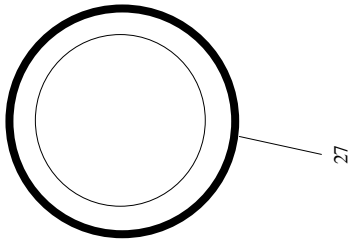
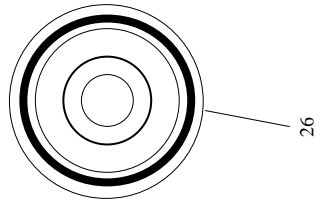
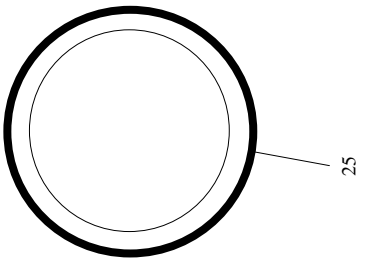
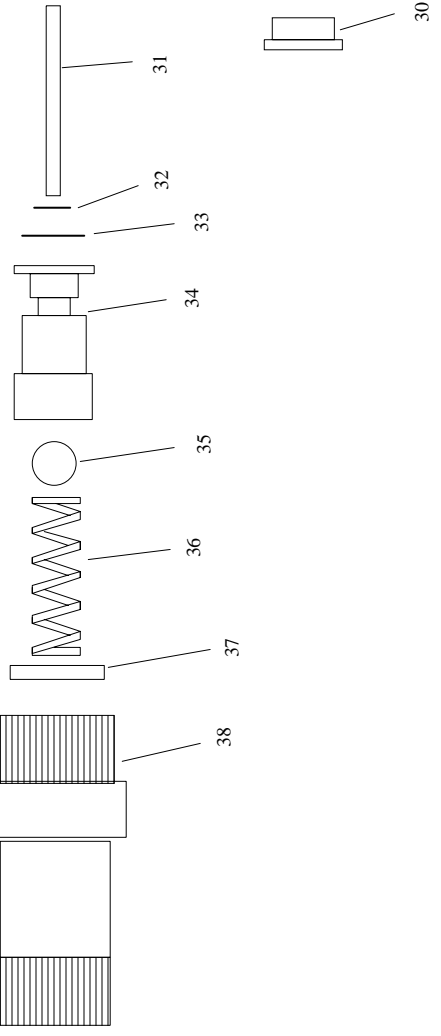
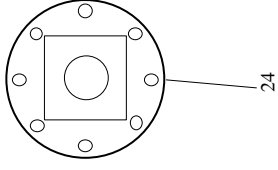
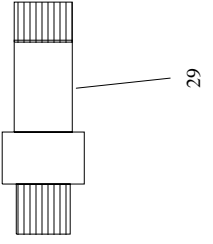
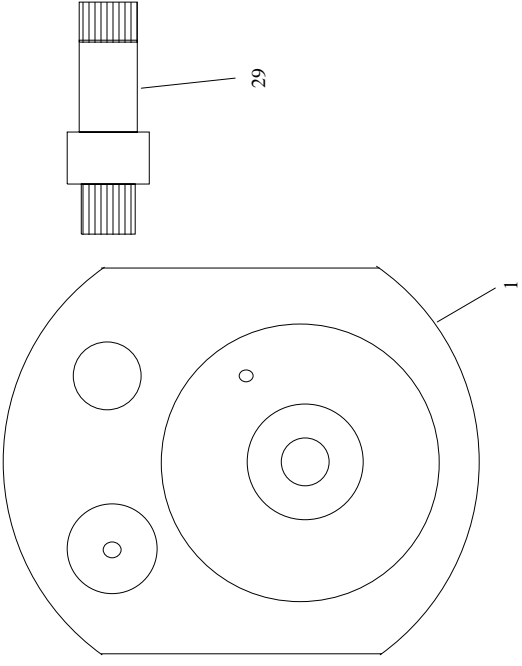
### **Disassembly Instructions**

1. Remove black protective boot part # 02-5462.
2. Remove material nozzle item # 24 from fluid body # 5.
3. Remove small metric set screw item # 43 with a 1.5 mm metric allen wrench.
4. Remove needle tip and locknut item # 44 and use needle packing nut tool item # 40 to remove packing nut.
5. Once packing nut is removed, un-screw needle counter-clockwise from needle fixing socket item # 42 and slide needle out along with packing assembly item # 7.
6. Remove stuffing box screw item # 6 with a 5 mm metric allen wrench, this will pull lower fluid body away from upper cylinder body. Be careful not to damage gasket item # 4.
7. Reassemble in reverse order.



KML-1000 Parts Breakdown





**PARTS BREAKDOWN LIST MODEL # KML-1000  
STAINLESS CONVENTIONAL PAINT SPRAY GUN**

<b><u>ITEM #</u></b>	<b><u>PART #</u></b>	<b><u>DESCRIPTION</u></b>
	KML-1010	Complete spray gun, 90' (medium striper)
	KML-1015	Complete spray gun, 90' (medium striper)
	KML-1020	Complete spray gun, 45' (large striper)
1	02-0032	Gun body SS
2	02-0033	Trigger
3	02-0054	Guide pin
4	02-0210	Gasket, nylon (45' models only)
	02-0021	Gasket, nylon (90' models only)
5	02-1054	Gun head w/ 45' fluid inlet
	02-0045	Gun head w/ 90' fluid inlet
6	02-0055	Stuffing box screw SS
7	02-0017	Teflon Packing kit (consists of A,B & C)
8	See chart	
9	02-0044	Needle spring
10	02-0022	O-ring gasket
11	02-0052	Gasket, copper – large (2)
12	02-0036	12mm nut
13	02-0051	Gasket, copper – small
14	02-0042	Lock nut for piston SS
15	02-0040	Piston check nut
16	02-0019	Piston cup
17	02-0039	Piston check ring
18	02-0038	Piston guide SS
19	02-0029	Piston spring
20	02-0030	Spring distance spring
21	02-0037	Cylinder cap
22	02-0020	Filter, 4 piece
23	02-0053	Nut, filter
24	See chart	
25	02-0046	Fixing nut, large
26	See chart	
27	02-0049	Fixing nut, small
	02-0049S	Fixing nut shroud
28	See chart	
29	02-0027	Control air fitting
30	02-0050	Body plug
31	02-0041	Guide valve pin
32	02-0018	Non-bleeder stem gasket
33	02-0025	Non-bleeder valve gasket
34	02-0035	Non-bleeder valve body
35	02-0043	Valve ball SS
36	02-0030	Non-bleeder valve spring
37	02-0024	Non-bleeder valve gasket, teflon
38	02-0028	Atomization air intake
39		
40	02-0048	Packing nut tool

41	02-0047	Packing nut
42	02-0034	Needle fixing socket

<u>ITEM #</u>	<u>PART #</u>	<u>DESCRIPTION</u>
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43	02-0026	Set screw, needle
44	02-xxxx	See chart below

For Model # KML1010

8	02-0010	Needle SS
24	02-0011	Material nozzle
26	02-0012	Air nozzle 15-25 cfm
28	02-0013	Exterior nozzle

For Model # KML1015

8	02-0063	Needle SS
24	02-0065	Material nozzle
26	02-0064	Air nozzle 15-25 cfm
28	02-0074	Exterior nozzle

For Model # KML-1020

8	02-0207	Needle SS
24	02-0065	Material nozzle
26	02-0064	Air nozzle 15-25 cfm
28	02-0074	Exterior nozzle

Other items not listed

02-0163	Needle Tip 7.5 (mn 6.8)
02-0110	Needle Tip 6.5 (mn 6.0)
02-0100	Needle shaft 1010 or 1015
02-0208	Needle shaft 1020
02-0101	Needle lock nut
02-5462	Protective boot
02-1001	KML Gun hanger

**For ordering parts, call 1-800-765-4637**

**KML gun/KML parts breakdown**