CONTINUED FROM PAGE 1

C. INSTALLING THE ELECTRONIC CONTROLS.

For greater detailed information on the LSP Electronic Controller, refer to the LSP Electronic Controller Operation Instructions.

LSP ELECTRONIC PULSATOR

1. Install small Magnet on any part of the press or feeder that passes the same point on each revolution of the press.
2. Mount Electronic Sensor so that the Magnet passes within .125 inches of the Electronic Sensor and plug the Electronic Sensor into the electronic box.
3. The Solenoid Actuator has been factory installed on the PresSpray unit. Attach the plug from the Solenoid Actua tor cord into the Electronic Pulsator Box.
4. Insert Electric three prong Plug into 110 V electrical outlet.

PLC Unit

If customer uses their own PLC unit they must refer to the manufacturers instructions for installation information.

OPERATIONAL INSTRUCTIONS

A. **OPERATING THE LSP PresSpray**

1. *Refer to the Installation, Operation & Trouble Shooting Instructions that were supplied with the LSP PresSpray equipment.*
2. Follow the "Installation Instructions" up to the priming of the unit until the fluid is coming out of the Bleeder Valve void of air bubbles.
   a. PresSpray on a reservoir will be bled by gravity feed as long as the fluid is higher than the Bleeder Valve.
   b. PresSpray on a Bracket and Fed with a TransferPump must be force fed by the TransferPump. Turn air on to the Transfer Pump, 40 - 60 PSI is normally enough. Be sure to hold Towel over bleeder valve when bleeding. TransferPump will move lubricant under pressure and will spray out of the bleeder valve. The towel will contain it until the PresSpray is bled.

   Note: Even though the unit is bled, once the PresSpray starts actuating it is possible that air hidden and trapped in the PresSpray Inlet Line will dislodge and get into the PreSpray itself. If this happens the unit will malfunction and Step 2. will have to be repeated.

B. OPERATING THE LSP Electronic Pulsator

1. *Refer to the Installation, Operation & Trouble Shooting Instructions that was supplied with the LSP Electronic Controller for a complete overview of the unit.*
2. With the air on to the PresSpray, (60 to 80 PSI), and to the TransferPump, (40 to 60 PSI),(if one is used), manually actuate the Controller.
   a. Find the "Manual Button" on the Controller.
   b. Press the "Manual Button" and then release it. The PresSpray will actuate and move fluid through the distribution line toward the CompuSpray and the nozzles.
   c. Repeat the process until fluid is coming out of the nozzles in a clean spray pattern.

C. OPERATING THE COMPLETE CompuSpray SYSTEM.

1. The system is primed and the air and electricity is on.
2. The Directional Valve on the side of the CompuSpray Cabinet is used for shuting down the bottom nozzles in the cabinet if lubrication on the underside is not needed. The upper nozzles are always "ON" and cannot be shut "OFF".
3. Program the Electronic Controller by following the instructions in the Electronic Controllers, "Installation, Operation and Trouble Shooting", manual.
4. The press must be running so that the delay time and the actuations per cycle can be syncronized.

TROUBLESHOOTING INSTRUCTIONS

A. No Lubricant on the Coil Stock.	1. Check to make sure reservoir is not empty. If empty refill reservoir. 2. If using a TransferPump, check to see that it is functioning properly. 3. Check to see if the Electronic Controller or PLC is sending a signal to the PreSpray. *This can be done by touching the solenoid while the press is cycling, a clicking type feeling will be felt if Electronic Controller or PLC is working properly. If solenoid is not working check Trouble shooting instructions in the Electronic Controller manual or in the PLC manual.* 4. Check to see if the PresSpray is actuating when it receives a signal from the Electronic Controller or the PLC. *This can be done by touching the ejector while the elctronics is sending a signal. If there is no feeling while the electronics are working properly, the PresSpray needs to be checked out. The first thing that should be checked is that the air is on and at least 45 PSI. If the air is on, go to the PresSpray manual and follow the Trouble Shooting section.*
B.Lubricant Coating is not Even.	1. Check the lubricant, some water solubles and synthetics will not coat evenly, they will pool or puddle. 2. Check to see that there are no plugged nozzles. *This can be done by sticking a hand between the brushes while the unit is actuating to see if there is a spray pattern from the nozzles. If the spray pattern is bad remove the nozzle and make sure that the hole is shapped like a fish eye and that the ball in the check valve is in a good condition.*
C. Brushes are Worn.	1. Tighten adjusting screws on the right and left hand side of either brush bracket until brushes come together. 2. If brushes are worn to the point that they can not be adjusted enough to being brought back together, replace.

INSTALLATION, OPERATION and TROUBLE SHOOTING

with REPLACEMENT PARTS LISTING for CompuSpray Models No. C-132 to C-148

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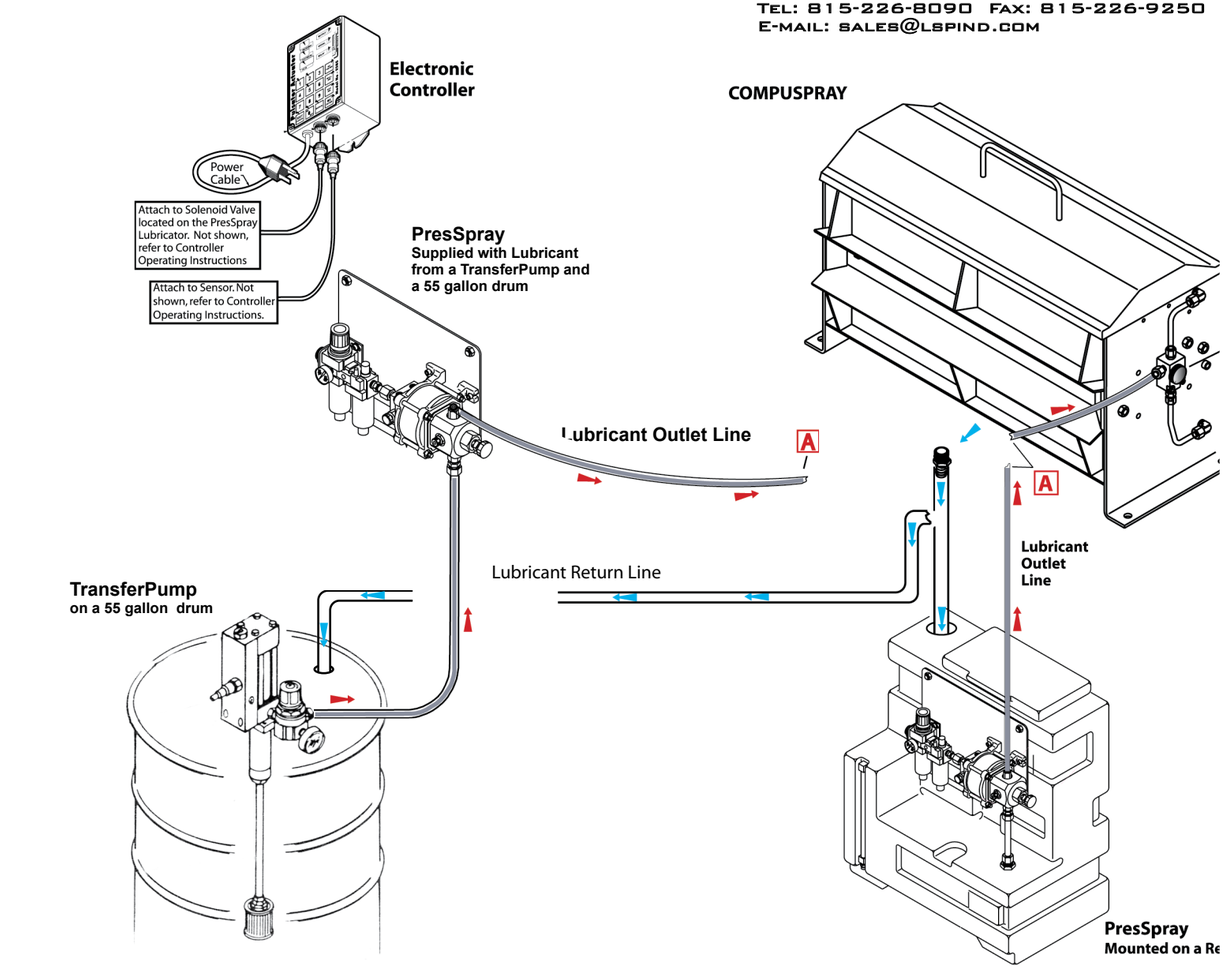


INSTALLATION INSTRUCTIONS

A. **INSTALLING THE CompuSpray CABINET.**

1. Locate the Cabinet at the exit side of the stock feeder with the inlet facing the feeder.
2. Center the inlet at the height of the coil coming out of the feeder. The outlet will be facing the press.

   The outlet is the side at which the nozzles are aimed.
3. Attach the Barbed Fitting and the Lubricant Return Tube to the threaded hole in the bottom of the CompuSpray.

B. INSTALLING A PresSpray SYSTEM.

For greater detailed information on the PresSpray refer to the PresSpray Operation Instructions.

PresSpray on a RESERVOIR.

1. Position the Reservoir lower than the CompuSpray and close enough so that the Lubricant Return Line can be placed in the hole in the Reservoir.
2. Attach the shop air to the PresSpray Air Inlet Fitting.

   Refer to the PresSpray Operating Instructions for proper size air line.
3. Attach the LSP Heavy Wall Tubing, no other type of tubing is recommended for this application, between the PresSpray Solution Outlet and the CompuSpray Solution Inlet.

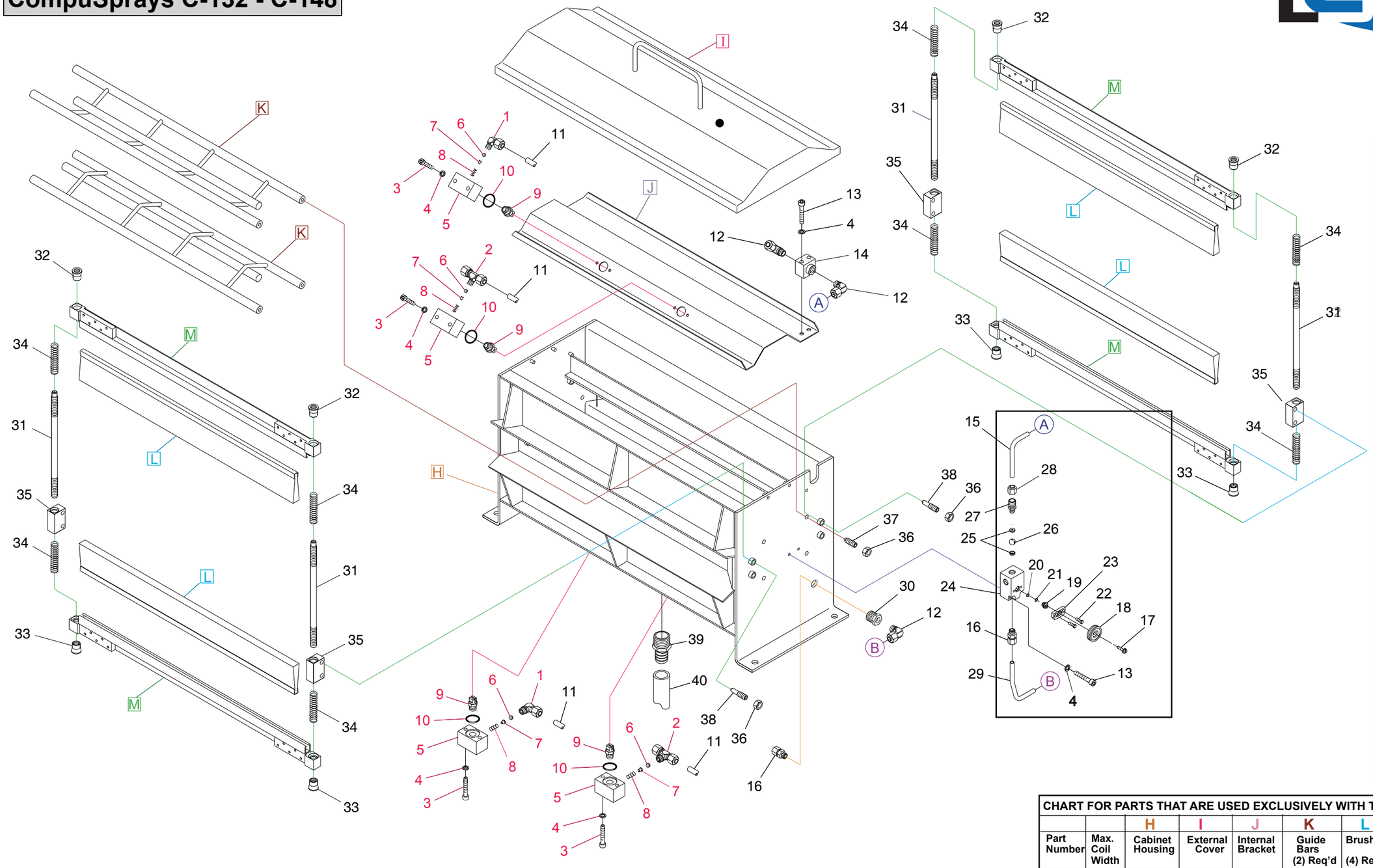
PresSpray on a BRACKET and Fed with a TRANSFER PUMP.

1. Reservoir, supplied by the end user must be positioned in a close proximity to the CompuSpray so that the Lubricant Return Line can be placed in the Reservoir. 2. The Transfer Pump is positioned close to the Reservoir on a wall or a bracket attached to the reservoir.
3. The Lubricant Inlet Tube from the TransferPump is placed in the Reservoir so that it reaches the bottom of the Reservoir.
4. Repeat steps 2 and 3 from the "PresSpray on a Reservoir" section.

Contnued on Page 4

Replacement Parts List for CompuSprays C-132 - C-148

LSP INDUSTRIES, INC.
ROCKFORD, IL 61104



Information in Red in the "Qty" is used by referencing the Red numbers in the lower chart. Go to whichever colum is indicated and use the number as shown for the specific unit to arrive at quantity used. In two cases, the quantities will be doubled.

No.	Qty	Part #	Description
1.	X	SET-035	FITTING, Comp: seat
2.	Y	SET-034	FITTING, T: seat
3.	X + Y x 2	SCR-067	SCREW, Socket hd.
4.	X + Y x 2	WAS-001	WASHER, Lock
4.	4	WAS-001	WASHER, Lock:
	in addition to the above.		
5.	X + Y	BRK-045	BRACKET, Nozzle
6.	X + Y	BAL-022	BALL, Check
7.	X + Y	EYE-002	EYELET, Flanged
8.	X +Y	SPG-036	SPRING, Compression
9.	X +Y	NOZ-10X	NOZZLE, Spray
10.	X +Y	RGO-061	RING, "O": Seal
11.	N	BLK-006	BULK TUBING
	see "N" below.		
12.	3	FIT-015	FITTING, Elbow
13.	4	SCR-083	SCREW, Socket hd.
14.	1	BRK-046	BRACKET, Adaptor
15.	1	TUB-307	TUBING, Copper
16.	2	FIT-021	FITTING, Compression
17.	1	SCR-006	SCREW, Button Hd
18.	1	MLD-051	CAP, Knob
19.	1	STM-002	STEM, Valve
20.	1	RGO-057	RING, "O": Seal
21.	1	RGB-032	RING, Backup: seal
22.	2	SCR-086	SCREW, Cap: soc hd
23.	1	PLT-0071	PLATE, Valve: on/off
24.	1	HSG-228	HOUSING, Valve
25.	2	SET-036	SEAT, Valve: on/off
26.	1	BAL-052	BALL, Valve: on/off
27.	1	OUT-014	OUTLET, Valve: 1/4 comp
28.	1	FIT-017	FITTING, Nut
29	1	TUB-308	TUBING, Copper
30.	1	ADP-069	ADAPTOR, Fitting
31.	4	ROD-018	ROD, Threaded: adjusable
32.	4	NUT-172	NUT, Adjust : left hand
33.	4	NUT-171	NUT, Adjust: right hand
34.	8	SPG-035	SPRING, Compression
35.	4	GID-018	GUIDE, Support
36.	16	NUT-055	NUT, Jam
37.	8	SCR-085	SCREW, Set: half dog
38.	8	SCR-223	SCREW, Modified
49.	1	FIT-092	FITTING, Barbed
40.	1	TUB-161	TUBING, Return

CHART FOR PARTS THAT ARE USED EXCLUSIVELY WITH THE INDICATED COMPUSPRAY.

Part Number	Max. Coil Width	H Cabinet Housing	I External Cover	J Internal Bracket	K Guide Bars (2) Req'd	L Brushes (4) Req'd	M Brush Holder (4) Req'd	N Tube Length	O Nozzle Type	X No. of End Nozzles	Y No. of Type T Nozzles
C-132	12 "	HSG-111	COV-021	BRK-051	401-GID-01	BRS-011	401-RET-01	2 FT.	NOZ-101	2	0
C-134	18"	HSG-112	COV-022	BRK-052	401-GID-02	BRS-012	401-RET-02	3 FT.	NOZ-102	2	2
C-136	24"	HSG-113	COV-023	BRK-053	401-GID-03	BRS-013	401-RET-03	4 FT.	NOZ-101	2	2
C-138	30"	HSG-114	COV-024	BRK-054	401-GID-04	BRS-014	401-RET-04	5 FT.	NOZ-102	2	4
C-140	36"	HSG-115	COV-025	BRK-055	401-GID-05	BRS-015	401-RET-05	5 FT.	NOZ-101	2	4
C-142	42"	HSG-116	COV-026	BRK-056	401-GID-06	BRS-016	401-RET-06	7 FT.	NOZ-102	2	6
C-144	48"	HSG-117	COV-027	BRK-057	401-GID-07	BRS-017	401-RET-07	7 FT.	NOZ-101	2	6
C-146	54"	HSG-118	COV-028	BRK-058	401-GID-08	BRS-018	401-RET-08	8 FT.	NOZ-102	2	8
C-148	60"	HSG-119	COV-029	BRK-059	401-GID-09	BRS-019	401-RET-09	9 FT.	NOZ-101	2	8