

**DO NOT USE EQUIPMENT BEFORE READING THIS SECTION**

## **WARNING** **HIGH PRESSURE SPRAY** **CAN CAUSE SERIOUS INJURY.**

**Maximum Working Pressure 3000 psi, 210 BAR**

An airless spray gun requires that fluid be introduced to it at very high pressure. Fluids under high pressure, from spray or leaks, can penetrate the skin and inject substantial quantities of toxic fluid into the body. If not promptly and properly treated, the injury can cause tissue death or gangrene and may result in serious, permanent disability or amputation of the wounded part. Therefore, extreme caution must be exercised when using any airless spray equipment. **IF YOU ARE INJECTED, SEE A PHYSICIAN IMMEDIATELY. DO NOT TREAT AS A SIMPLE CUT!**

**NOTE TO PHYSICIAN:** Injection into the skin is a serious, traumatic injury. It is important to treat the injury surgically as soon as possible. Do not delay treatment to research toxicity. Toxicity is a concern with some exotic coatings injected directly into the blood stream. Consultation with a plastic surgeon or a reconstructive hand surgeon may be advised.

- 1) Handle the spray gun carefully. NEVER point the gun at yourself or anyone else. NEVER permit any part of your body to come in contact with the fluid stream of either the gun or any hose leak. ALWAYS keep the gun trigger safety lever in a locked position when not spraying. ALWAYS use a tip safety guard.
- 2) NEVER attempt to force the flow of fluid backward through the gun with your finger, hand or hand-held object against the gun nozzle. This is NOT AN AIR SPRAY GUN.
- 3) NEVER attempt to remove tip, disassemble or repair equipment without first doing the following:

### **PRESSURE RELEASE PROCEDURE**

- A. Set trigger safety in a locked position.
- B. Shut off pump and unplug electrical cord.
- C. Release fluid pressure from entire system and trigger gun.
- D. Reset trigger safety in a locked position.

- 4) Before flushing system, always remove spray tip and adjust fluid pressure to lowest possible setting.
- 5) Tighten all fluid connections before each use. NEVER exceed 3000 psi with this unit. Make sure that all accessory hoses, connections, swivels and so forth can withstand the high pressures which develop. NEVER exceed the pressure rating of any component in the system.
- 6) **WARNING:** The paint hose can develop leaks from wear, kinking, abuse, etc. A leak is capable of injecting fluid into the skin, therefore the paint hose should be inspected before each use. NEVER attempt to plug a hose with any part of your body, adhesive tape or any other makeshift device. Do not attempt to repair a spray hose, instead replace it with a new grounded hose. Use only with hoses that have spring guards. NEVER use less than 50' of hose with this unit.
- 7) Be sure that the airless equipment being used and the object being sprayed are properly grounded to prevent static discharge or sparks which could cause fire or explosion. **WARNING:** ALWAYS hold the gun against metal container when flushing system with tip removed, to prevent static discharge.
- 8) ALWAYS keep the working area around the pump well ventilated. Additionally, the pump itself should be a minimum of 25' from the spray area. If these instructions are not followed there is the possibility of fire or explosion with certain materials. ALWAYS follow the coating or solvent manufacturers safety precautions and warnings. Never spray flammable material near open flames, pilot lights or any source of ignition.
- 9) ALWAYS wear spray masks and protective eyewear while spraying. Additional personal protective equipment may be required depending on the type of material being sprayed and conditions of ventilation. Always contact supplier of material for recommendation.
- 10) Keep all extension poles clear of electrical wires.
- 11) NEVER alter or modify any part of this equipment; doing so could cause it to malfunction.
- 12) NEVER leave equipment unattended. Keep away from children or anyone not familiar with the operation of airless equipment.

# REPAIR AND SERVICE

## GENERAL REPAIR & SERVICE NOTES

**WARNING:** Before proceeding, follow the Pressure Relief Procedure outlined on page 1. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts, or electric shock. Always unplug the sprayer before servicing!

The following tools are needed when repairing this sprayer. Complete Tool Kit Available. Product No. 700-840

Phillips Screwdriver	3/8" Allen Wrench
Needle Nose Pliers	5/16" Allen Wrench
Adjustable Wrench	3/16" Allen Wrench
Rubber Mallet	1/8" Allen Wrench
Flatblade Screwdriver	

1. Before repairing any part of the sprayer, read the instructions carefully, including all warnings.
2. When disconnecting wires, use needle nose pliers to separate mating connectors.

**CAUTION:** Never pull on a wire to disconnect it. Pulling on a wire could loosen the connector from the wire.

3. Test your repair before regular operation of the sprayer to be sure that the problem is corrected. If the sprayer does not operate properly, review the repair procedure to determine if everything was done correctly. Refer to the Troubleshooting Charts to help identify other possible problems.
4. Make certain that the service area is well ventilated in case solvents are used during cleaning. Always wear protective eyewear while servicing. Additional protective equipment may be required depending on type of cleaning solvent. Always contact supplier of solvents for recommendations.
5. If you have any further questions concerning your TTI airless sprayer, call TTI Customer Service Department at 800-526-5362.

## PUMP SECTION REPAIR & SERVICE

See Figures 7 & 2

**WARNING:** Before proceeding, follow the Pressure Relief Procedure outlined on page 1. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts, or electric shock. Always unplug the sprayer before servicing!

1. Remove safety plate #127, Figure 7.
2. Stop the sprayer at the top of its stroke so that the piston is in its highest position.
3. Remove the pressure relief tube assembly #129 with a wrench and the syphon hose #131 by pulling up hose assembly and unthreading counterclockwise.
4. Tilt pump back for easy access to pump section.

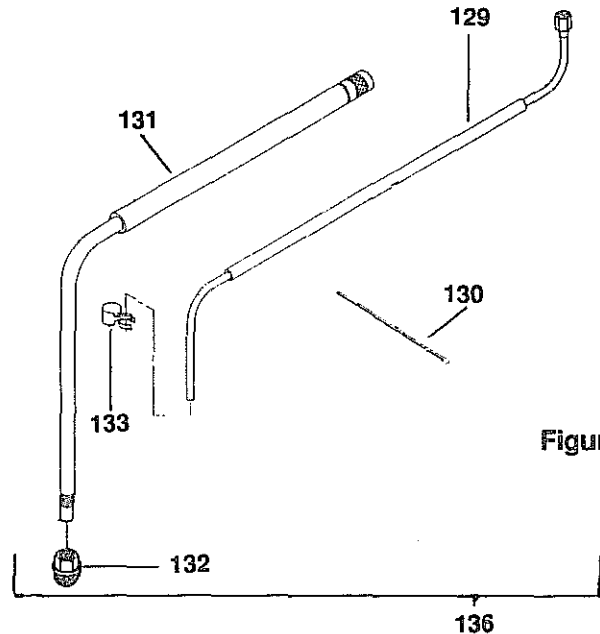


Figure 2

ITEM No	PART No	DESCRIPTION	QTY
129	700-847	BYPASS ASSY	1
130	700-742	HOSE TIE WRAP	1
131	755-114	SYPHON ASSY W/CLIP	1
132	700-805	10 MESH INLET SCREEN	1
	700-900	OPTIONAL 30 MESH INLET SCREEN	1
133	700-212	CLIP	1
136	755-113	SYPHON, TUBE & HOSE ASSY (Item Nos 129-133)	1

# PACKING REPLACEMENT

See Figures 4 & 3

1. Remove outlet cap screws #93 and 119 from rear of fluid section.
2. Remove screws #20 with a 3/8" allen wrench and safety plate #127
3. Slide pump section from connecting rod #14. If pump section will not slide off, use a screwdriver to lightly pry pump section down so that piston is clear to slide off.
4. Inspect polyethylene seal #89 on outlet manifold #88 after removing pump section. Clean or replace.
5. Place fluid section in a vice and remove screws #38 with a 5/16" allen wrench. Slide mount assembly #34 from fluid section.
6. Remove oil cup #15 and slide piston down through pump mount assembly #19 by lightly tapping on top of piston assembly #27. Clean and inspect piston for wear. Replace if necessary.
7. Remove packings #18 and 21 from pump mount assembly #19 and replace with a new set. **WARNING: Always insert packing with the raised side facing into pump mount assembly.**
8. Reattach oil cup #15 by lining up dowels. **WARNING: Make sure that the recessed section of oil cup is facing up and that the upper guide #16 is cleaned and undamaged.**
9. Insert assembled pieces #17, 18, 19 and 21 into a vice, leaving enough room to slide piston through bottom of pump mount assembly #19.
10. Using the piston guide tool (included in repacking kit) which slides over the top of the piston assembly #27, insert the piston through the bottom of pump mount #19 and tap lightly with a rubber mallet on bottom of piston until inserted.
11. Attach foot mount assembly #34 and secure with screws #38.
12. Align flats on piston so that it is perpendicular to assembly #19 and will line up when reattaching to connecting rod. This can be achieved by rotating the piston by placing a wrench on the valve housing assembly #26 and turning. **WARNING: Never use a wrench on the piston itself as this could cause damage to the piston and cause leakage.**
13. Slide assembled parts #34, 27, 21, 19, 18 and 17 onto connecting rod and secure with screws #20. Be certain that the outlet hole is facing towards outlet manifold #88.
- NOTE: Packings do not need to be adjusted.**
14. Screw outlet cap screws #93 and 119 into back of pump section and tighten securely. Be sure that the polyethylene gasket #89 is in place.
15. Reattach safety plate and add lubricant to oil cup.

ITEM No	PART No	DESCRIPTION	QTY
14	700-735	CRANK SLIDE & CONNECTING ROD ASSY	1
15	700-563	OIL CUP ASSY	1
16	700-587	UPPER GUIDE	1
17	700-600	OIL CUP ASSY	1
18	700-603	UPPER SEAL	1
19	750-020	PUMP MOUNT & DOWEL PIN ASSY	1
20	700-678	7/16-14 UN SCREW	2
21	700-601	LOWER SEAL	1

ITEM No	PART No	DESCRIPTION	QTY
22	700-580	PISTON ROD	1
23	700-881	GASKET	1
24	700-594	OUTLET VALVE RETAINER	1
25	700-585	OUTLET VALVE	1
26	700-609	OUTLET VALVE HOUSING & SEAT	1
27	700-598	PISTON ASSY	1
28	700-712	FOOT VALVE MOUNT	1
29	700-821	FOOT VALVE SEAL	1
30	750-062	FOOT VALVE RETAINER	1
31	700-583	INLET VALVE	1
32	700-608	FOOT VALVE HSG	1
33	702-007	FOOT VALVE ASSY	1
34	702-010	FOOT VALVE & MOUNT ASSY	1
35	700-211	PUMP SYPHON TUBE	1
36	700-201	O RING	1
37	700-213	PUMP SYPHON TUBE ASSY	1
38	700-611	3/16-16 UN SCREW	4
39	702-068	FLUID SECTION COMPLETE (Item Nos 15-19,21-34, 38)	1
32*	700-977	FOOT VALVE HSG	1
33*	702-119	FOOT VALVE ASSY	1
34*	702-123	FOOT VALVE & MOUNT ASSY	1
39*	702-015	FLUID SECTION COMPLETE (Item Nos 15-19,21-34,38)	1
Note:	702-130	REPACKING KIT (Item Nos 16,18,21,23,29,88)	1
	702-140	REBUILD KIT (Item Nos 16,18,21,23,25, 29, 31,88)	1

\*FOR CANADA, EUROPE

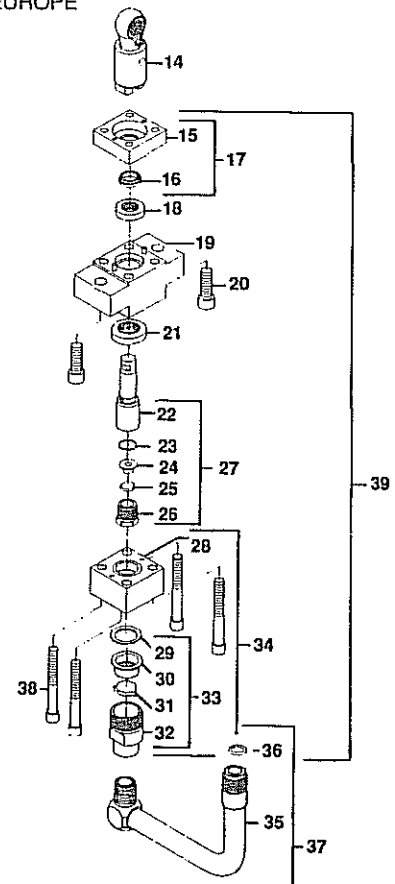


Figure 3

# SERVICE / REPLACEMENT OF CLUTCH ASSEMBLY

See Figure 4

**WARNING:** Before proceeding, follow the Pressure Relief Procedure outlined on page 1. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts, or electric shock. Always unplug the sprayer before servicing!

## Removal of Clutch Plate Assembly

1. Remove engine/motor assembly #81 by removing allen screws #54.
2. Slide fan assy #73 and clutch plate #72 from engine.
3. Inspect clutch plate #72 and clutch rotor assy #67 for wear. Replace if necessary.

## Removal of Clutch Rotor Assembly

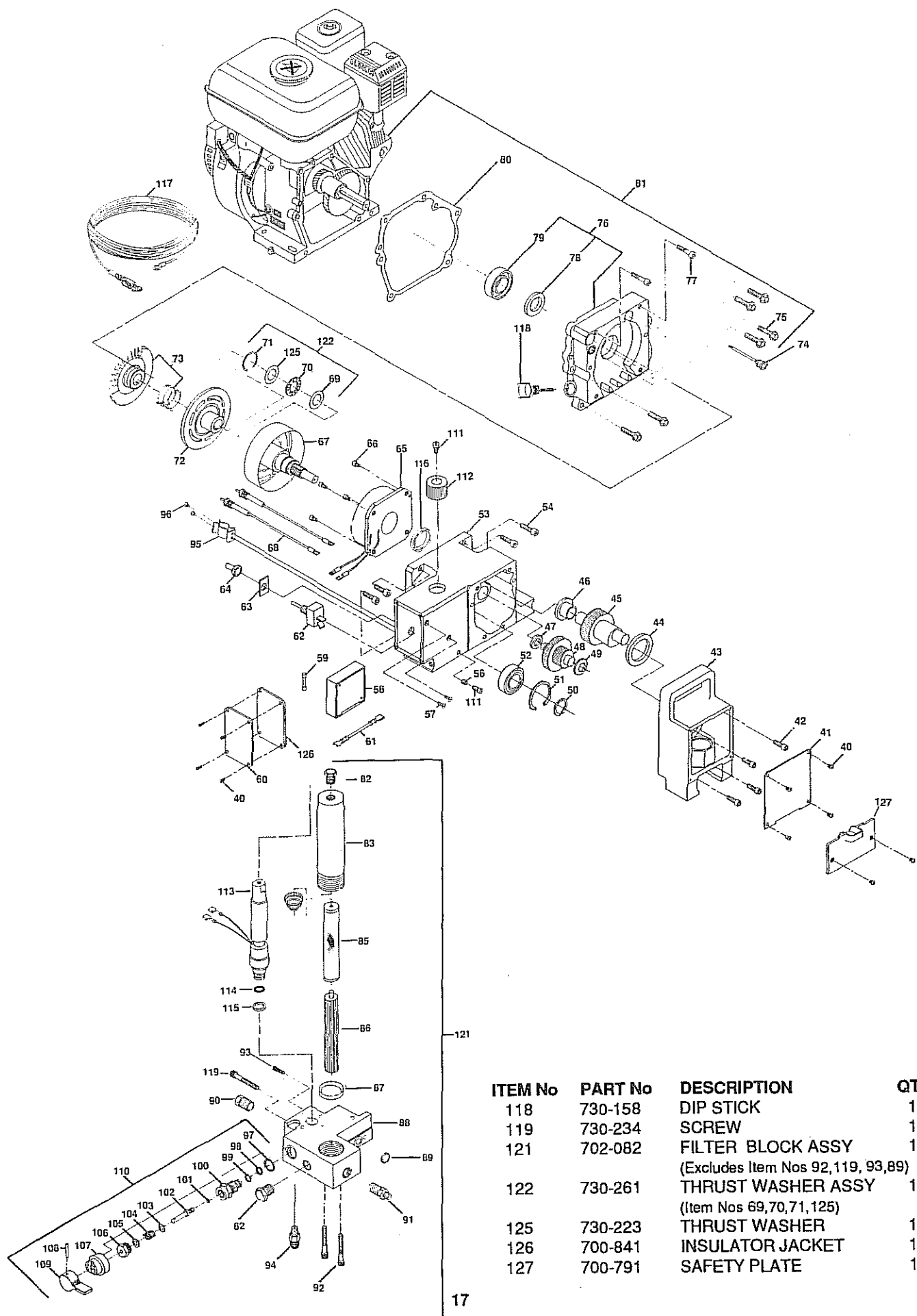
4. Follow steps 1-3 and remove rear mounting bolts #92 and 93 from rear of fluid section.
5. Remove front cover #41 and (4) socket head screws #42 located in pump housing assy #43.
6. Slide entire pump housing assy #43 from motor housing assy #53.
7. Remove crank shaft #45 and output pinion assy #48 from motor housing assy.
8. Remove snap ring #51 from clutch rotor assy #67 and slide rotor assy #67 from housing assy #53.

## Removal of Clutch Coil Assembly

9. Follow steps 1-8 and remove switch cover plate #60.
10. Disconnect wires from clutch starter #58 as indicated on clutch starter.
11. Remove (4) screws #51 from coil assy #65 and slide assy from motor assy #53.
12. To reassemble, reverse the procedures described above.

ITEM No	PART No	DESCRIPTION	QTY
40	700-653	SCREW	10
41	700-562	COVER	1
42	700-681	SCREW	4
43	750-008	PUMP HSG ASSY	1
44	700-680	THRUST WASHER	1
45	730-360	CRANK SHAFT	1
46	730-088	THRUST WASHER	1
47	700-688	THRUST WASHER	1
48	730-167	OUTPUT PINION ASSY	1
49	700-514	THRUST WASHER	1
50	730-144	SNAP RING	1
51	750-016	SNAP RING	1
52	750-015	BALL BEARING	1
53	755-115	MOTOR HSG ASSY	1
54	730-148	SCREW	4
56	710-127	SET SCREW	1
57	730-145	SCREW	2
58	730-060	CLUTCH STARTER	1
59	730-146	5 AMP FUSE	1
60	710-147	SWITCH COVER PLATE	1
61	700-748	SWITCH TO STARTER WIRE	1

ITEM No	PART No	DESCRIPTION	QTY
62	700-646	TOGGLE SWITCH	1
63	700-775	ON/OFF PLATE	1
64	700-645	RUBBER BOOT	1
65	730-149	COIL ASSY	1
66	730-150	SCREW	4
67	730-152	CLUTCH ROTOR ASSY	1
68	730-151	ELECTRICAL CONNECTOR	2
69	730-155	THRUST WASHER	1
70	730-154	THRUST BEARING	1
71	730-153	THRUST WASHER	1
		RETAINER	
72	730-140	CLUTCH PLATE ASSY	1
73	730-157	CLUTCH FAN ASSY	1
74	730-184	ELECTRICAL CONNECTOR	1
75	750-051	SCREW	6
76	750-086	ENGINE MOUNT	1
		(Incl. 78,79)	
77	750-018	SCREW	2
78	750-043	ENGINE OIL SEAL	1
79	750-044	ENGINE BEARING	1
80	750-042	GASKET	1
81	755-117	ENGINE ASSY	1
		(Incl. 74-80)	
82	710-069	PLUG	2
83	730-006	MAXI FILTER HSG	1
84	730-083	FILTER SPRING	1
85	730-067	FILTER CARTRIDGE	1
86	730-018	FILTER CORE	1
87	730-005	FILTER GASKET	1
88	702-081	FILTER HSG	1
89	700-804	PUMP OUTLET GASKET	1
90	730-195	3/8" PLUG	1
91	490-006	1/4" NIPPLE	1
92	700-685	SOCKET HEAD SCREW	2
93	700-681	CAP HEAD SCREW	1
94	700-699	PRESSURE RELEASE FITTING	1
95	755-135	CLIP	1
96	225-002	SCREW	2
97	700-537	GASKET	1
98	221-012	O-RING	1
99	222-012	O-RING	1
100	700-755	BY-PASS HSG	1
101	700-721	O-RING	1
102	700-752	BY-PASS VALVE STEM	1
103	700-706	WASHER	2
104	700-698	SPRING	1
105	700-705	WASHER	1
106	700-731	BY-PASS VALVE	1
		RETAINER	
107	700-754	BY-PASS CAM BASE	1
108	700-759	DOWEL PIN	1
109	700-697	BY-PASS VALVE HANDLE	1
110	700-757	BY-PASS VALVE ASSY	1
		(Item Nos 97-109)	
111	700-784	SCREW	2
112	700-771	ADJUSTMENT KNOB	1
113	710-049	PRESSURE CONTROL	1
114	700-499	O-RING	1
115	700-483	GASKET	1
116	730-172	CLUTCH SEAL	1
117	730-165	GROUND WIRE	1



ITEM No	PART No	DESCRIPTION	QTY
118	730-158	DIP STICK	1
119	730-234	SCREW	1
121	702-082	FILTER BLOCK ASSY (Excludes Item Nos 92, 119, 93, 89)	1
122	730-261	THRUST WASHER ASSY (Item Nos 69, 70, 71, 125)	1
125	730-223	THRUST WASHER	1
126	700-841	INSULATOR JACKET	1
127	700-791	SAFETY PLATE	1

## SERVICE /REPLACEMENT OF INLET VALVE

See Figure 3

1. Remove lower foot valve and mount assembly #34 by removing screws #38 with a 5/16" allen wrench.
2. Place lower valve mount assembly #34 in a vice and remove foot valve assembly #33 with a wrench.
3. Remove valve retainer #30 and inlet valve #31. If unable to remove, unscrew pump syphon tube assembly #37 and poke valve and retainer free from bottom of housing assembly #32, using screw #38. Tap screw with a hammer if necessary.
4. Clean and inspect valve #31, reverse or replace if showing wear or damage. Rubbing lightly on fine sandpaper can remove any dried paint.
5. Clean valve housing assembly #32, check for wear or damage. Replace if necessary.
6. Reattach foot valve assembly #33 to #28 and secure tightly with a wrench. Reattach syphon tube assembly #96.

## SERVICE/REPLACEMENT OF UPPER (OUTLET) VALVE

See Figure 3

1. To clean or replace upper valve, remove valve housing assembly #26 while piston assembly #27 is still attached to pump. This will prevent the piston from rotating.
2. Remove valve retainer #24 and outlet valve #25. Clean and inspect along with housing #26. Reverse or replace if worn or damaged. Use fine sandpaper to remove dried paint.
3. Reattach assemblies #32, #25 and #26 to piston #22 and secure tightly with a wrench.

## SERVICE/REPLACEMENT PRESSURE RELIEF PRIME VALVE

See Figure 5

**WARNING:** Before proceeding, follow the Pressure Relief Procedure outlined on page 1. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts or electrical shock. Always unplug the sprayer before servicing!

1. Remove dowel pin #108 from bypass valve handle #109. Push out pin as shown in Figure 5.
2. Remove handle #109 and bypass cam #107.
3. Using a wrench, loosen bypass housing #100 and unscrew. Inspect O-Rings #99 and 98.
4. Unscrew bypass valve retainer #106 and remove bypass valve stem #102.
5. Inspect ball on end of stem #102 and seat, located in bypass housing #100. Clean or replace, if damaged. Inspect O-Ring #101.
6. When reinstalling, screw completely assembled assembly into filter block except #107, 109 and 108 and

tighten securely with a wrench. Make sure that both washers #105 and 103 are properly in place.

7. Install bypass cam #107 over bypass retainer #106, lubricate with grease. Line up cam #107 with filter block #88.

8. Using dowel pin, line up stem #102 with hole on handle #109. Secure handle with dowel pin #108.

9. Important: If handle #109 rotates 360 degrees, check pin on cam #107.

## SERVICE/REPLACEMENT OF FILTER

See Figure 5

**WARNING:** Before proceeding, follow the Pressure Relief Procedure outlined on page 1. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts or electric shock. Always unplug the sprayer before servicing!

The pump and gun filter should be cleaned or replaced after each use.

**NOTE:** If spraying heavy-bodied materials such as blockfiller, remove all filters from system.

### PUMP FILTER -- See Figure 5

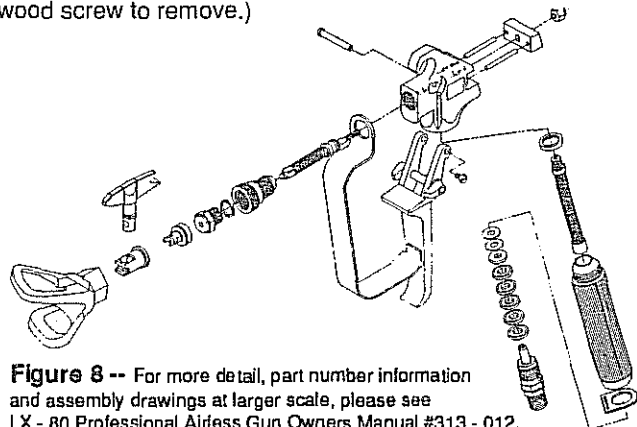
1. Unscrew filter housing #83.
2. Remove filter cartridge #85. Clean or replace.
3. Inspect seal #87. Clean or replace.
4. Reattach filter housing #83. Secure with a wrench.

### GUN FILTER --

**WARNING:** Follow all safety precautions as described in high pressure warning section before proceeding. If your spray gun leaks or spits at the tip when you release the trigger, the needle or seat is worn or damaged or dirty and must be replaced or cleaned.

#### Replacement or Removal of Filter:

1. First pull down on trigger safety guard and swing away from handle.
2. Unscrew handle from spray head.
3. Unscrew filter from spray head.  
(NOTE: Left handed thread, turn the filter clockwise to remove.)
4. Screw new or cleaned filter into the head. (Turn counter clockwise.)
5. Reattach handle to head and secure safety trigger guard. (NOTE: If filter breaks off in the head, use a small wood screw to remove.)



**Figure 8 --** For more detail, part number information and assembly drawings at larger scale, please see LX - 80 Professional Airless Gun Owners Manual #313 - 012.

ITEM No	PART No	DESCRIPTION	QTY
82	710-069	PLUG	2
83	730-006	MAXI FILTER HSG	1
84	730-083	FILTER SPRING	1
85	730-067	FILTER CARTRIDGE	1
86	730-018	FILTER CORE	1
87	730-005	GASKET	1
88	702-081	FILTER HSG	1
89	700-804	PUMP OUTLET GASKET	1
90	730-195	3/8" PLUG	1
91	490-006	1/4" NIPPLE	1
92	700-685	1/4-20 UN SCREW	2
93	700-681	1/4-20 UN SCREW	1
94	700-699	PRESSURE RELEASE FITTING	1
97	700-537	GASKET	1
98	221-012	O-RING	1
99	222-012	O-RING	1
100	700-755	BY-PASS HSG	1
101*	700-721	#005 O-RING	1
102	700-752	BY-PASS VALVE SYSTEM	1
103	700-706	WASHER	1
104	700-698	SPRING	1
105	700-705	WASHER	2
106	700-731	BY-PASS VALVE RETAINER	1
107	700-754	BY-PASS CAM BASE	1
108	700-759	DOWEL PIN	1
109	700-697	BY-PASS VALVE HANDLE	1
110	700-757	BY-PASS VALVE ASSY	1
113	761-140	PRESSURE CONTROL	1
114	700-499	O-RING	1
115	700-483	GASKET	1
119	730-234	1/4-20 UN SCREW	1
121	702-082	FILTER HSG ASSY (Excludes Item Nos 89,92, 93,119)	1
*	700-897	OPTIONAL PTFE O-RING	1
**	700-890	BY-PASS O-RING TOOL	1

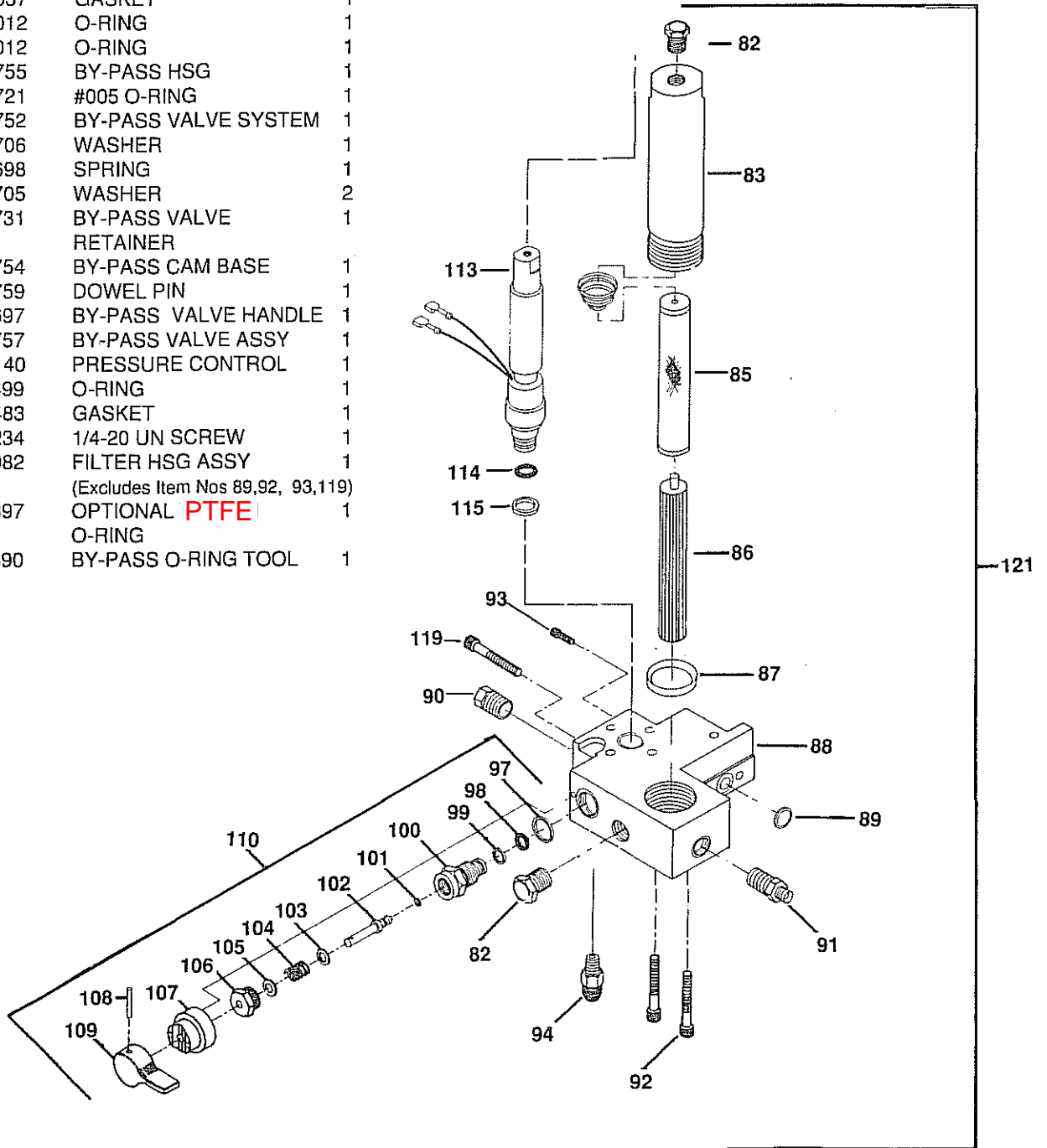


Figure 5

# PRESSURE SWITCH REPLACEMENT

See Figure 6

**WARNING:** Before proceeding, follow the Pressure Relief Procedure outlined on page 1. Additionally, follow all other warnings to reduce the risk of an injection injury, injury from moving parts or electric shock. Always unplug the sprayer before servicing!

1. Remove head cap screws #93 and 119 from rear of fluid section and bottom of filter block.
2. Remove filter block #87.
3. Remove switch cover plate #60, located near pressure switch and disconnect two red wires from clutch starter #58.
4. Remove screw #111 from pressure switch adjustment knob and slide knob off.
5. Remove screw #111 located on side of gear box housing #53 and using a 1/8" allen wrench remove set screw #56, until pressure switch #113 is able to slide down through. Feed electrical wires down at the same time.
6. Insert new switch assembly #113 into housing while carefully working the wires into the switch box. Using needle nose pliers, reconnect wires to motor starter.
7. Making sure that the switch assembly is fully inserted, tighten set screw #56 with a 1/8" allen wrench until the switch assembly is secure. Reattach adjustment knob #112.
8. Inspect O-Rings #114 and 115 on switch assembly. If properly in place, then install filter block #88 by lining up dowels. Secure with screws #93 and 119. Note: Make sure that the pump outlet gasket #89 is properly in place before installing filter block #88.
9. Install switch plate #60.
10. The pressure switch is factory calibrated so no adjustment is required.

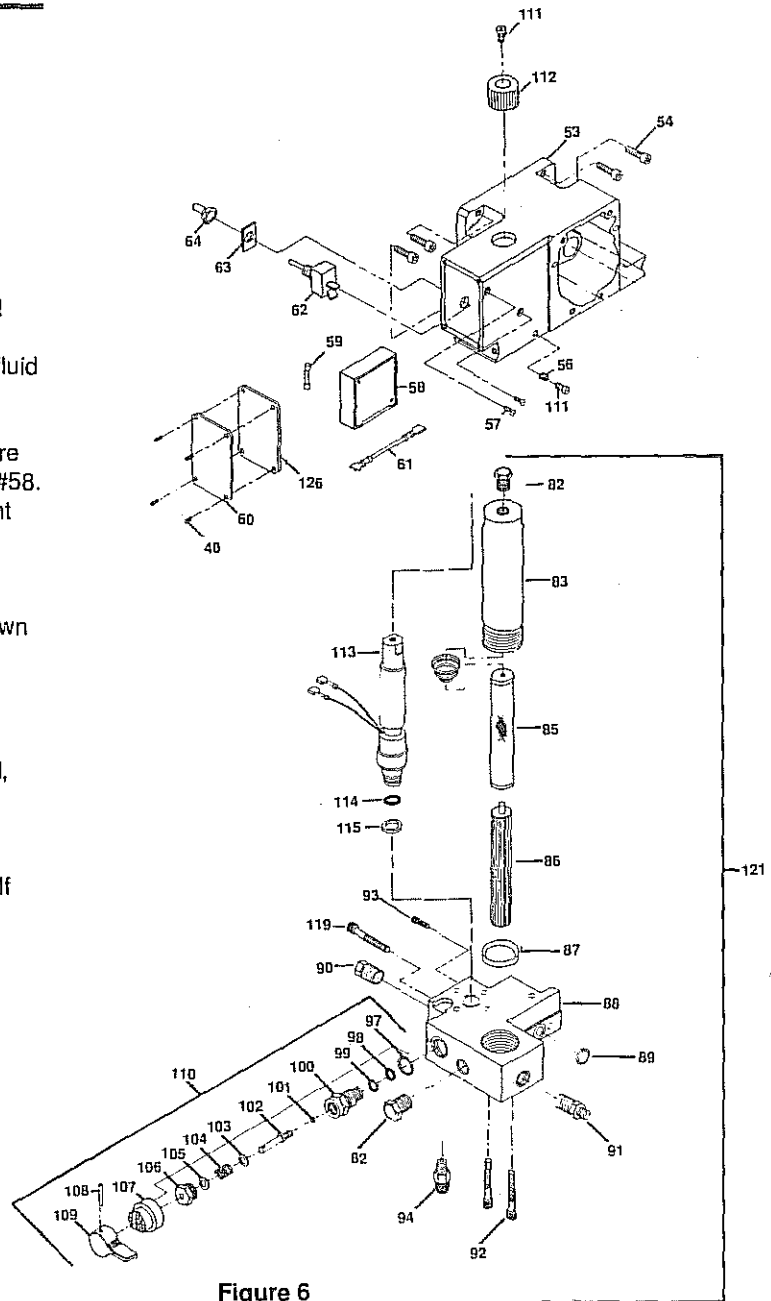


Figure 6

ITEM No	PART No	DESCRIPTION	QTY	ITEM No	PART No	DESCRIPTION	QTY
53	755-115	MOTOR HSG ASSY	1	88	702-081	FILTER HSG	1
54	730-148	SCREW	4	89	700-804	PUMP OUTLET GASKET	1
56	710-127	SET SCREW	1	90	730-195	3/8" PLUG	1
57	730-145	SCREW	2	91	490-006	1/4" NIPPLE	2
58	730-060	CLUTCH STARTER	1	92	700-685	SOCKET HEAD SCREW	2
59	730-146	5 AMP FUSE	1	93	700-681	CAP HEAD SCREW	1
60	710-147	SWITCH COVER PLATE	1	94	700-699	PRESSURE RELEASE FITTING	1
61	700-748	SWITCH TO STARTER WIRE	1	111	700-784	SCREW	2
62	700-646	TOGGLE SWITCH	1	112	700-771	ADJUSTMENT KNOB	1
63	700-775	ON/OFF PLATE	1	113	761-140	PRESSURE CONTROL	1
64	700-645	RUBBER BOOT	1	114	700-499	O-RING	1
82	710-069	PLUG	2	115	700-483	GASKET	1
83	730-006	MAXI FILTER HSG	1	119	730-234	SCREW	1
84	730-083	FILTER SPRING	1	121	702-082	FILTER BLOCK ASSY	1
85	730-067	FILTER CARTRIDGE	1			(Excludes Item Nos 89,92,93,119)	
86	730-018	FILTER CORE	1	126	700-841	INSULATOR JACKET	1
87	730-005	FILTER GASKET	1				



# GEAR REPLACEMENT

See Figure 7

**WARNING:** Before proceeding, follow the Pressure Relief Procedure outlined on page 1. Additionally, follow all other warnings to reduce risk of an injection injury, injury from moving parts, or electric shock. Always unplug the sprayer before servicing!

1. Remove safety plate #127, from front of pump.
2. Remove front cover #41.
3. Remove mounting bolts #93 and 119, from rear of pump.
4. Remove (4) socket head screws #42 and slide pump housing assembly #43 from gear box housing #53.
5. Inspect gears beginning with crank shaft assembly #45. Then output pinion gear #48.
6. Reassemble by reversing the above order. When reassembling, make sure that all washers are in place and that gears and bearings are properly lubricated.

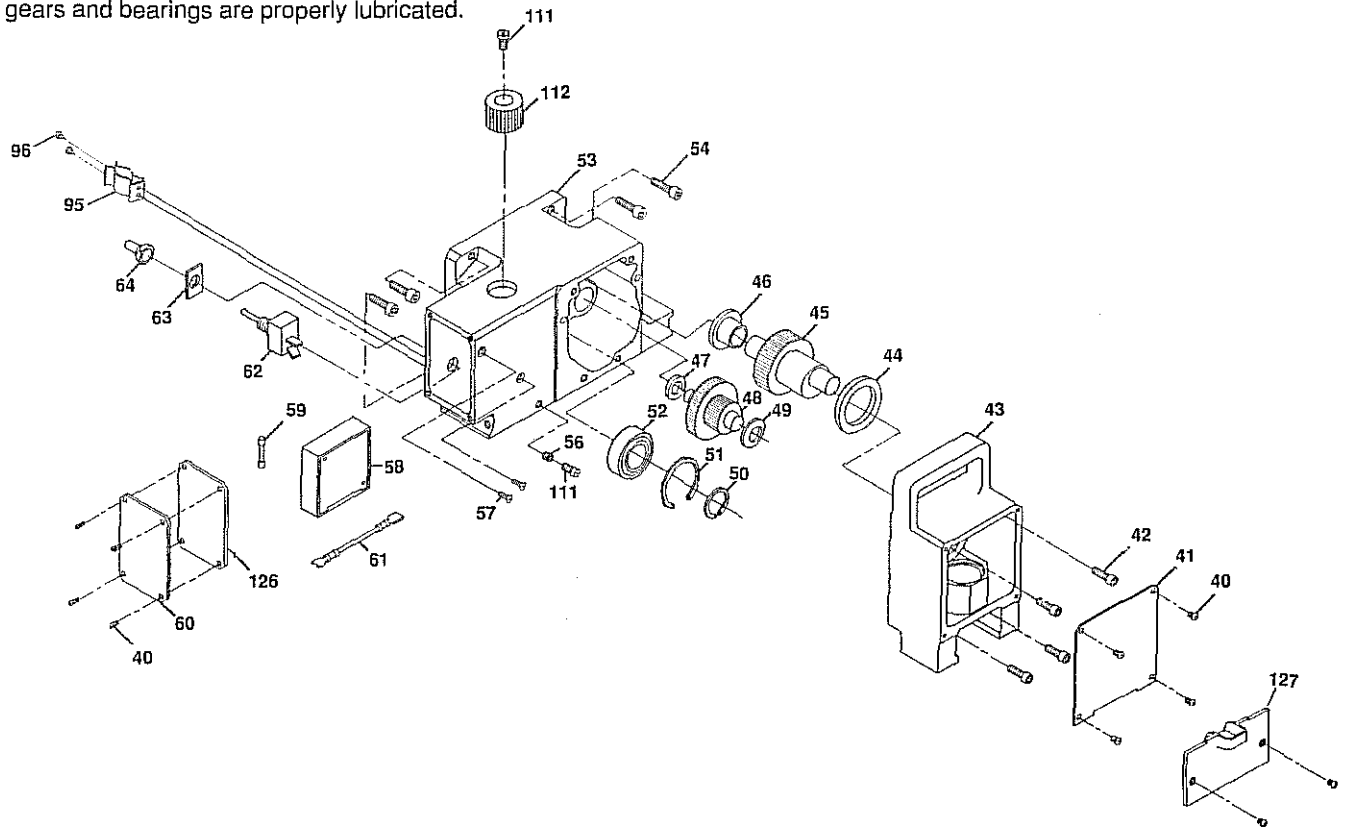


Figure 7

ITEM No	PART No	DESCRIPTION	QTY	ITEM No	PART No	DESCRIPTION	QTY
40	700-653	SCREW	10	56	710-127	SET SCREW	1
41	700-562	COVER	1	57	730-145	SCREW	2
42	700-681	SCREW	4	58	730-060	CLUTCH STARTER	1
43	750-008	PUMP HSG ASSY	1	59	730-146	5 AMP FUSE	1
44	700-680	THRUST WASHER	1	60	710-147	SWITCH COVER PLATE	1
45	730-360	CRANK SHAFT	1	61	700-748	SWITCH TO STARTER WIRE	1
46	730-088	THRUST WASHER	1	62	700-646	TOGGLE SWITCH	1
47	700-688	THRUST WASHER	1	63	700-775	ON/OFF PLATE	1
48	730-167	OUTPUT PINION ASSY	1	64	700-645	RUBBER BOOT	1
49	700-514	THRUST WASHER	1	95	755-135	CLIP	1
50	730-144	SNAP RING	1	96	225-002	SCREW	2
51	750-016	SNAP RING	1	111	700-784	SCREW	2
52	750-015	BALL BEARING	1	112	700-771	ADJUSTMENT KNOB	1
53	755-115	MOTOR HSG ASSY	1	127	700-791	SAFETY PLATE	1
54	730-148	SCREW	4				