DRAMM—



Hydra SprayTrax Owners Manual

Model HYDRAE-ST50 Model HYDRAE-ST100

Model HYDRAG-ST50

Model HYDRAG-ST100

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Hydra SprayTrax™ Hydraulic Sprayer

5.5 HP Honda Gasoline Motor 5.5hp, 2,450RPM
1.5 HP 1,750RPM electric motor 115v/230v, 13.6a/6.8a
See Serial Label for Configuration
Serial Number

Limited Warranty

Dramm Corporation warrants, to the extent of the purchase price, that the Hydra SprayTrax™ will be free from defects in materials and workmanship to the original purchaser for a period of six months. Parts subject to wear are not covered under this limited warranty. Defects or damages due to the misuse, non-observance of safety standards, or non-observance of EPA chemical guidelines are not covered under this limited warranty. Please read and follow the instructions and heed warnings stated in the operating manual and on the Hydra SprayTrax™.

The Honda Motor is covered by a 2 year warranty by Honda Motor Corp. A copy of this warranty is included in the enclosed Emission Control sheet in the motor manual.

Dramm Corporation makes no other further warranty, expressed or implied, and all other or further warranties, including any warranties of merchantability or fitness for a particular purpose are expressly excluded.

In no event shall the manufacturer(s) or Dramm Corporation be liable for loss of product, profit or any other special, incidental or consequential damages including, but not limited to, plant damage, property, or persons.

Dramm Corporation makes no warranty, expressed or implied, in regard to the efficacy of any pesticide or other chemical which may be applied using the Hydra Sprayer.

This warranty begins on the date of original purchase. This warranty is void if there is no proof of purchase or warranty registration on file. Mail the warranty registration card to the Dramm Corporation and keep the bill of sale or invoice. If warranty service is required, please contact Dramm at 920.684.0227 or visit. www.dramm.com/service

This warranty begins on the date of original purchase. If warranty service is required visit:

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WARNING

Hydra SprayTrax
Model: HYDRAG-ST50 HYDRAG-ST100
Model: HYDRAE-ST50 Model HYDRAE-ST100

- Clean after every use with warm soapy water and then rinse with clean water.
- Wear protective clothing; respirator, hood, gloves and boots when mixing and spraying chemicals.
- Do not spray into the wind. Avoid the drift of solution sprays.
- Do not direct the spray or spray gun at yourself or anyone else.
- Be certain all hoses and connections are secure prior to using the Hydra.
- Avoid dry operation, since the spray solution acts as a pump lubrication.
- Relieve the pressure before removing the hoses or spray gun.
- Apply all chemicals according to EPA Guidelines.

- Store in a clean, dry location— away from children and unauthorized personnel.
- Remove all hoses and drain the pump prior to storage.
- Do not drag the hoses over sharp objects or bend excessively.
- Repair or replace all damaged or broken hoses before using the Hydra SprayTrax.
- Before servicing the unit, disconnect the Hydra SprayTrax from the power source.
- Do not store mixed chemicals. Use all of the chemical mixture immediately.
- Do not adjust the Pressure Regulator Valve past its stop.

Introduction

The Dramm Hydra SprayTrax[™] is a hydraulic sprayer that offers a variety of flow rates with a variety of pressures to allow for maximum flexibility. The Hydra can apply all formulations of chemicals including insecticides, fungicides, Insect growth regulators, plant growth regulators, and disinfectants. The Hydra can output all formulations without damage or corrosion to the pump.

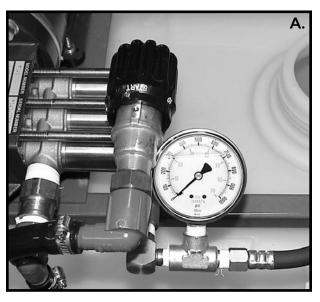
The Dramm Hydra SprayTrax includes either a 1.5 HP electric motor or a 5.5 HP Honda gasoline motor and a close-coupled pump capable of 4gpm electric or 8 gpm gas and 550psi, 50 or 100 gallon tank, maneuverable SprayTrax™ cart with self-tracking axle design, a convex reel with a separate lock and variable drag system, 250 feet of high pressure spray hose, and a variable pattern trigger spray gun.

Assembly & Preparation

Your Spraytrax comes to you ready to spray. After removing the sprayer from the crate, check the tank for any additional parts and accessories. Connect the spray gun to the hose using the quick disconnect. Your machine is now ready for use.

START UP

- I. Either switch on the electric motor or Pull-start the Honda motor by setting the motor speed to fast & engaging the choke. for more on motor operation see the motor manual pg 15.
- Fill the sprayer to the desired level. Do Not operate the sprayer empty for more than a few seconds. The water acts as a coolant and lubricant for the pump and damage may occur.
- Start the sprayer with the pressure control knob in the START position. (A). Do Not attempt to start the sprayer under pressure as this will stall the motor and cause an overload condition.
- 4. After starting the sprayer allow it to run with the pressure control knob in the start position. This will remove any air from the system, which can harm the pump.
- Engine speed should not exceed 3,500 RPM. Maximum speed should be set using the adjusting screw located directly above the throttle lever of engine.



NOTE

- Always start and shutdown your sprayer with the pressure regulator in the START (priming) position.
- · Keep inlet filter clean.
- Always rinse the tank and flush the pump with clean water after each use.

Operation

SPRAY OPERATION

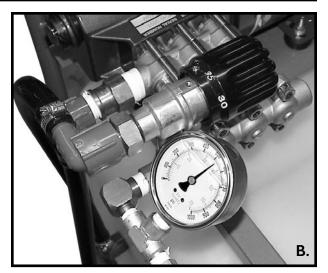
- I. After following the start up, to increase the spray pressure, turn the pressure control knob to the desired setting. (B) You may use any of these settings for spraying, as the unit will operate properly at all settings.
- 2. To begin spraying, pull the lever to the gun. A latch is provided to hold the level open to reduce operator fatigue. (C)

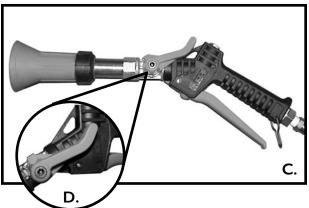
CAUTION: Do not direct the spray at yourself or others, as injury may occur. On higher pressure settings, the spray stream may cut or inject spray under your skin. Always wear proper personal protective gear when spraying.

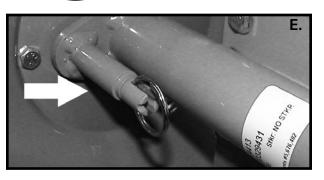
- 3. Spray Pattern: Adjustment of the spray pattern is made using the lever on the side of the gun. The pattern will adjust from a straight stream to a fine cone mist. (D)
- 4. Hose Reel: The Hydra MultiSpray comes standard with a variable drag lockable hose reel. The reel may be locked in position to prevent the hose from unwinding further than wanted. (E) The variable drag on the reel places variable tension on the reel to prevent freewheeling of the reel during unwinding. The drag has a lever to activate it. A nut allows for tension adjustment. (F)

SHUT-DOWN

- After spraying until the tank is empty, turn the unit off.
- 2. Add clear water to the tank. Start the machine and spray until empty flushing out the pump hose and gun.
- 3. Clean any residue from the unit.
- 4. Return the regulator to the START position.
- 5. Store the unit in a clean dry place.
- 6. Do Not allow the unit to freeze as any water left in the unit will expand and damage the machine.







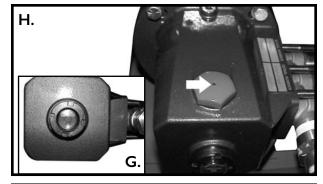


Chemical Mixing Procedure

- I. Fill the sprayer tank at least 3/4 full with water ONLY.
- 2. Dilute (mixing to dissolve) chemicals with water in a 5 gallon bucket. Never put concentrated chemical formulations directly into the tank without diluting with water.
- 3. Start sprayer with pressure regulator in START (priming) position to beginagitation process prior to adding chemical to sprayer tank.
- 4. Pour chemical and water mixture (slurry) into the sprayer tank, filled 3/4 full of water, after agitation has begun.
- 5. Fill remainder of sprayer tank with water.

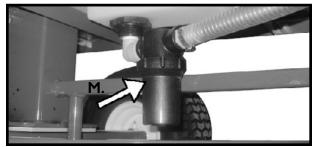
Maintenance & Cleaning

- I. Periodically check the pump oil level (G) If it is below the indication, add oil though the filler (H). Oil should be changed after the first 50 hours of operation. Use SC grade SAE10W-30 oil.
- 2. Periodically lubricate the grease fittings on the wheels with a good grade of bearing grease to extend the wheel bearing life.
- 3. Replace the spray gun tip every season. As the hole in the tip gets larger the spray pressure drops and degrades the quality of the spray. (K)
- 4. Thoroughly clean the in-line filter, tank and machine on a weekly basis.
- 5. To drain tank, rotate the drain valve (L.) 90° allowing flow from the drain hose. To completely drain tank, remove the lower housing of the in-line filter (M). *After draining, clean the filter, replace the housing and close the drain valve (L) to ensure that upon refilling the tank-the chemical will not drain out of the unit.

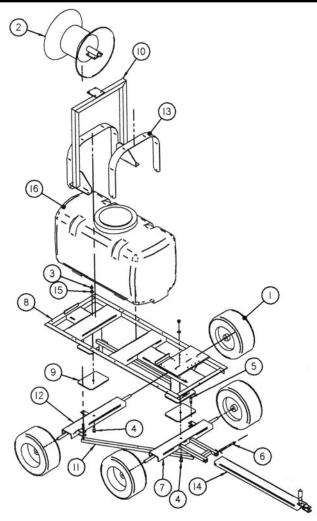






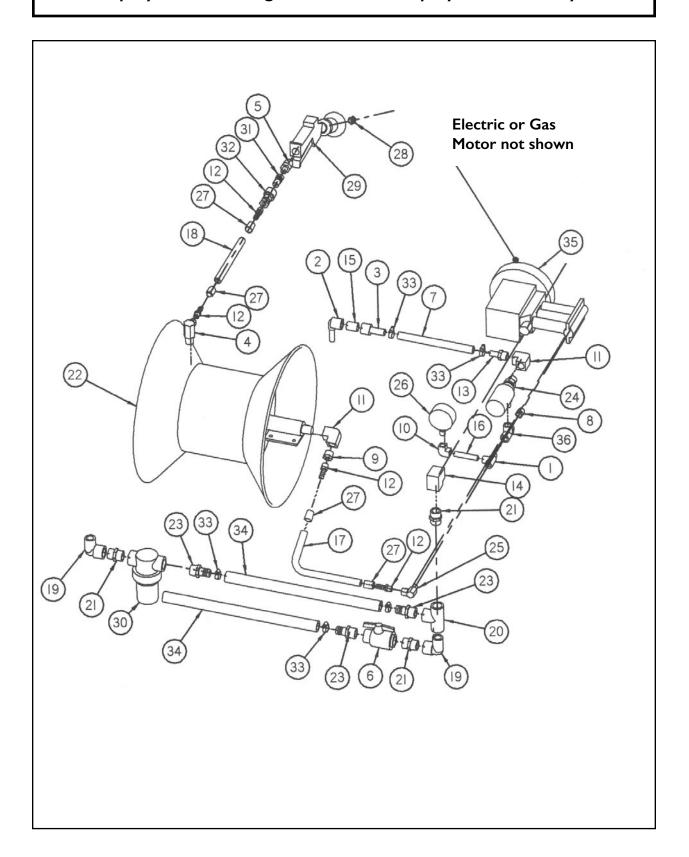


Hydra SprayTrax Cart Assembly



Item	# Part #	Description	Quantity
Ī	1353B970	Turf Wheel	4
2	4916	Hose Reel	1
3	90619A410	I/2" Lock Nut	2
4	91259A119	5/8 X 5/8 Shoulder Screw	2
5	97245A712	I/2 X I 3/4 Pin	2
6	98306A417	I/2 X 6" Pin	1
7	D11338	Front Axle	1
8	D11341	Trailer Frame	1
9	D11343	Pivot Plate	2
10	D11346	Reel Support	1
П	D11355	Tie Bar	1
12	D11357	Rear Axle	I
13	D11364	Tank Strap	2
14	D11391	Tongue	I
15	H33086	I/2 Washer	2
16	PCO 050-19S	50 Gal Tank	I

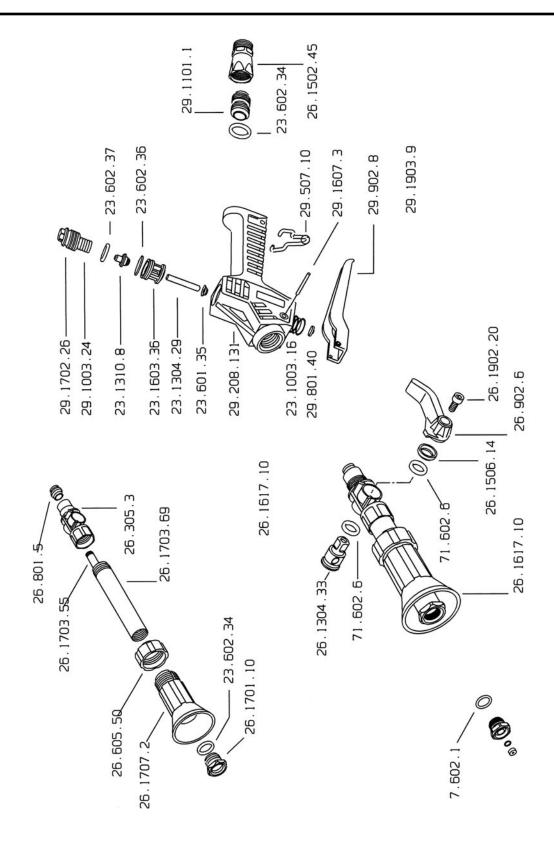
SprayTrax Plumbing, Hose Reel, and Spray Gun Assembly



SprayTrax Plumbing, Hose Reel, and Spray Gun Parts List

Item	# Part #	Description	Quantity
ı	127-B-04	I/4" Male Run Tee	I
2	1407-005	Elbow I/2 MNPT X I/2 Barb	I
3	1435-005	I/2 FPT to I/2 Barb	l
4	1501-08-04	1/2 X 1/4 Elbow	l
5	24SA 08X04	Reducing Nipple	1
6	2621-007 SPEARS	3/4 Ball Valve	l
7	2T05R0812	I/2" Tube	l
8	41277	3/8 X I/4 Bushing	1
9	42060	Bushing I/2 MPT X I/4 FPT	1
10	42068	I/4 Elbow	1
П	42070	I/2 Elbow	2
12	42780	I/4 X 3/8 Hose Barb	4
13	42800	Fitting I/2 Barb X I/2 MPT	1
14	46969	3/4 Brass Elbow	l
15	46971	Nipple 1/2 Brass Close	1
16	46991	2 1/2 LG Brass Nipple	1
17	478-3/8	3/8 I.D. Hose	1
18	478-3/8	3/8 I.D. Hose	1
19	48335K115	3/4 Elbow	2
20	48335K133	3/4 Tee	1
21	48335K174	3/4 Hex Nipple	3
22	4916	Hose Reel	I
23	5372K133	3/4 MPT X 3/4 Barb	3
24	546849	Unloading Valve	I
25	60UA04X04	I/4 X I/4 Male Swivel Elbow	1
26	7211	Gauge -0-1000 PSI	1
27	7FB-675L	Ferrule	4
28	8278005	Spray Tip	1
29	82840002	Geo 400 Spray Gun	1
30	98775K36	3/4 T-Strainer	1
31	FD45-1004-0404 MQD	Quick Disconncect Male	1
32	FD45-1005-0404 FQD	Female Quick Disconnect	1
33	H62004	Gear Clamp	5
34	K7130-12	3/4 Suction Hose	2
35	MSD 40	MSD 40 Pump	I
36	TEE		1

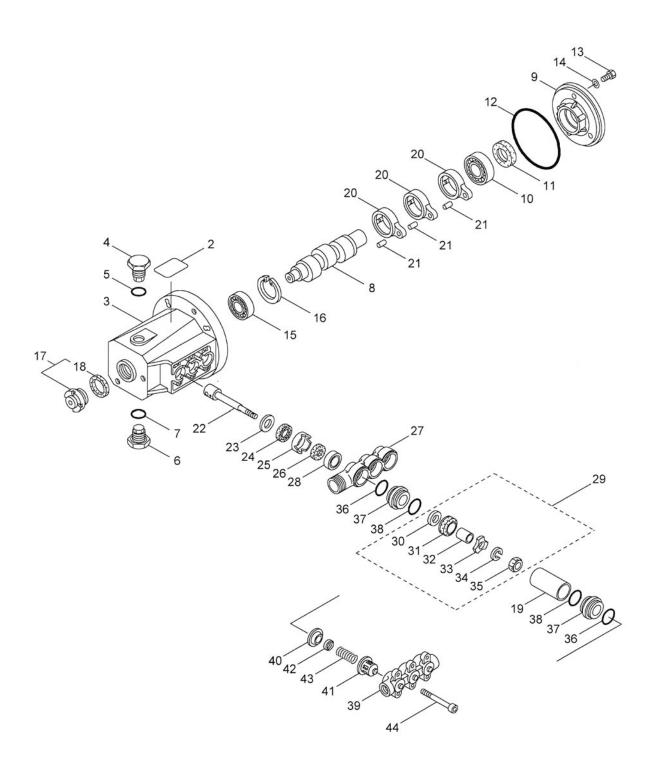
SprayTrax Spray Gun



Spray Gun Parts List Model MSO40

Part #	Description	Quantity
23.1003.16	Trigger Spring	I
23.1304.29	Push Pin	1
23.1310.8	Plug	I
23.1603.36	Flow Regulator Body	I
23.602.34	O-Ring	2
23.602.36	O-Ring	I
23.602.37	O-Ring	I
26.1304.33	Directional Switch	1
26.1506.14	Spacer	I
26.1617.10	Complete Flow Tube Assembly	1
26.1701.10	Nozzle	I
26.1703.55	Narrow Pattern Tube	1
26.1703.69	Flow Tube	1
26.1707.2	Spray Shield	1
26.1902.20	Screw	1
26.305.3	Spray Pattern Control Body	I
26.605.50	Wing Nut	1
26.801.5	Spacer	1
26.902.6	Spray Pattern Control Valve	1
29.1003.24	Spring	1
29.1101.1	Nipple	1
29.1607.3	Trigger Pin	1
29.1702.26	Plug	1
29.1903.9	Complete Trigger Valve Assembly	I
29.208.131	Valve Body	1
29.507.10	Trigger Locking Clip	1
29.801.40	Stopper	1
29.902.8	Trigger	1
71.602.6	O-Ring	I

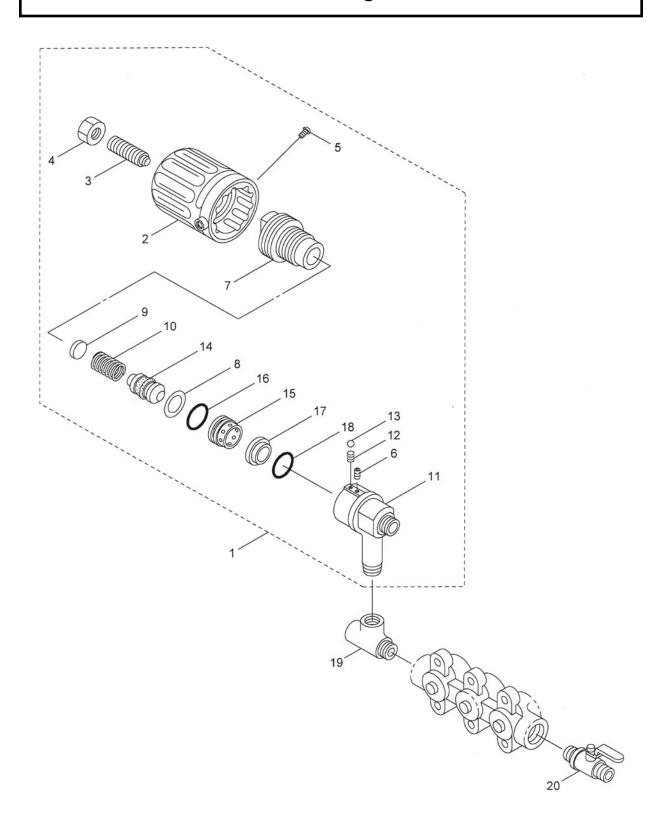
MSO40E Crank Case and Inlet Valve



Crank Case and Inlet Valve Parts List

1-1 354040 MSD40(5/8IN)	ltem #	Part #	Description	Quantity	
1-2		354040	MSD40(5/8IN)	I	
1-4	I-2	546000	Label	I	
1-5	I-3	546041	Crankcase	1	
1-5	I-4	044839	Oil Filler Cap	I	
1-6	I-5	014179		I	
1-8				1	
1-9				i	
1-10	1-8	546772	Crankshaft	I	
	1-9	044857	Bearing Case	1	
1-12	1-10	014488	Bearing	I	
1-14	1-11	044859		1	
1-14	1-12	014044	O-Ring	1	
1-15	1-13	089551		3	
1-16	1-14	150810	Seal Washer	3	
1-17	1-15	015710	Bearing	I	
1-17	1-16	012385		1	
1-18	1-17	092241		1	
1-20	1-18	044428		I	
1-21	1-19	541811	Cylinder Pipe		
1-22	I-20	045876	Connecting Rod		
1-23 020017 Washer 3 1-24 025461 Oil Seal 3 1-25 044869 Seal Retail 3 1-26 011402 Oil Wick 3 1-27 545944 Inlet Manifold 1 1-28 540670 U-Packingl3 3 1-29 639503 Inlet Valve Assembly 3 1-30 014122 Inlet Valve Seat 3 1-31 116121 Piston Packing 3 1-32 027348 Spacer 3 1-33 119917 Retainer, Piston 3 1-34 015849 Spring Washer 3 1-35 046365 Nylon Nut 3 1-36 023172 O-Ring 6 1-37 546860 Pipe Receiver 6 1-38 015862 O-Ring 6 1-39 544499 Discharge Manifold 1 1-40 044881 Valve Seat 3 1-41 044565 Retainer 3 1-42 043723 Discharge Valve 3 1-43 541062 Spring 3	1-21	016948	Piston Pin	3	
1-24	I-22	541809	Piston Pin	3	
1-25	1-23	020017	Washer	3	
1-26 011402 Oil Wick 3 1-27 545944 Inlet Manifold 1 1-28 540670 U-Packing I3 3 1-29 639503 Inlet Valve Assembly 3 1-30 014122 Inlet Valve Seat 3 1-31 116121 Piston Packing 3 1-32 027348 Spacer 3 1-33 119917 Retainer, Piston 3 1-34 015849 Spring Washer 3 1-35 046365 Nylon Nut 3 1-36 023172 O-Ring 6 1-37 546860 Pipe Receiver 6 1-38 015862 O-Ring 6 1-39 544499 Discharge Manifold 1 1-40 044881 Valve Seat 3 1-41 044565 Retainer 3 1-42 043723 Discharge Valve 3 1-43 541062 Spring 3					
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1-36 023172 O-Ring 6 1-37 546860 Pipe Receiver 6 1-38 015862 O-Ring 6 1-39 544499 Discharge Manifold I 1-40 044881 Valve Seat 3 1-41 044565 Retainer 3 1-42 043723 Discharge Valve 3 1-43 541062 Spring 3				3	
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I-40 044881 Valve Seat 3 I-41 044565 Retainer 3 I-42 043723 Discharge Valve 3 I-43 541062 Spring 3	1-38	015862		6	
I-41 044565 Retainer 3 I-42 043723 Discharge Valve 3 I-43 541062 Spring 3					
I-42 043723 Discharge Valve 3 I-43 541062 Spring 3					
I-43 541062 Spring 3					
I-43 541062 Spring 3			Discharge Valve	3	
I-44 544090 Cap Screw 6				3	
	I-44	544090	Cap Screw	6	

MSO40E Pressure Regulator Valve



Pressure Regulator Valve Parts List

ltem #	Part #	Description	Quantity	
2-1	546849	Pressure Regulator Valve	I	
2-2	540936	Grip	I	
2-3	088913	Cap Screw	I	
2-4	081039	Nut	I	
2-5	087483	Screw	2	
2-6	088912	Cap Screw	1	
2-7	106495	Guide	I	
2-8	106499	Washer	I	
2-9	541769	Retainer	I	
2-10	109298	Spring	I	
2-11	546500	Body	I	
2-12	107221	Spring	I	
2-13	106498	Ball	I	
2-14	543591	Piston Assembly	I	
2-15	103306	Sleeve	1	
2-16	019261	O-Ring	1	
2-17	543507	Valve Seat	I	
2-18	019261	O-Ring	I	
2-19	542258	Tee	I	
2-20	541796	Cock Assembly	I	

Troubleshooting

This power sprayer troubleshooting section shows how to diagnose and resolve problems that may occur in the course of normal operation. If you experience a problem, take the steps indicated for the applicable diagnosis. When you can't determine the cause of a problem or if you have any difficulty, please feel free to contact your nearest dealer or this company's sales office. Please have the following information ready: I. Model designation 2. Serial number 3. Description of problem (What happened? What were you doing when it happened? What were the conditions when it happened?) For items marked with *, please request adjustment or repair from your nearest dealer or from this company's sales office.

WARNING: Do not change the setting of the screw that is under the cap on the top of the pressure regulator knob. This screw absolutely must not be changed, since that will raise the pressure above rated specifications, damage the machine, and possibly cause injury.

Problem	Cause	Remedy
Suction is Low or Absent	 Suction strainer is blocked with debris 	Clear and clean
–Up to Suction Port	 Suction hose is damaged or crooked Suction hose connector gasket is bad Connection is bad 	Repair or replaceRepair or replaceConnect properly
–Suction & Pressure Parts (Cylinder Part)	 Debris is stuck in inlet or discharge valve Inlet or discharge valve is assembled improperly Inlet or discharge valve is damaged or worn Discharge valve spring is damaged Piston packing is damaged O-ring is damaged Seal & packing are damaged 	 Clean Assemble properly Repair or replace Replace Replace Replace Replace Replace Replace
-Pressure Regulator Part • Pressure Will Not Increase	 Pressure regulator valve lever in is RUN position Pressure regulator is stuck 	 Return lever to START position Disassemble & clean
-Suction & Pressure Part	 Insufficient liquid supplied to intake 	Diagnose under (I)
–Pressure Regulator Part	 Pressure regulator valve ball or valve seat damaged Pressure regulator valve rod is bad Pressure regulator valve spring bad Pressure regulator valve spring is damaged or weak 	ReplaceAdjust or replaceRepair or replaceReplace

Troubleshooting

Problem	Cause	Remedy
 Pressure Falls When Spray Gun is Opened -Nozzle 	Nozzle is wornNozzle sprays too much liquidIntake liquid amount is too small	ReplaceReplace with suitable nozzle
–Power Spray		Diagnose under (1)
Sprayer Hose Vibrates	 Pressure regulator valve works poorly 	Disassemble or adjust
	 Faults in intake or pressure assemblies (stopped up, slack) 	• Clean
• Noise	Loose or worn keyConrod bolt or other bolt is loose	Tighten or replaceTighten
	 Bearings are damage Pressure regulator valve is assembled wrong 	ReplaceAdjust
	Air is being drawn in	• Inspect
• Liquid or Oil Leak	O-rings are damagedSeal & packing are damagedOil seal is damaged	Replace Replace
	 Clamping or assembly are incorrect 	ReplaceDisassemble or adjust

Notes

Service

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