

SPX Series
Patriot Sprayer
SPX 4260

Troubleshooting Manual

86986705

CASE IH

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MAINTENANCE SCHEDULE

Recommended Break-In Maintenance

The following maintenance is only recommended as a first time required maintenance. Regularly scheduled maintenance is still required in addition to the break-in maintenance.

SERVICE POINTS	FREQUENCY IN HOURS						
	GREASE	DRAIN	CHECK	CLEAN	CHANGE	FILL	TORQUE
Hub Lubricant					50	50	
A/C Compressor Belt			50				
Gear Increaser Lubricant					100	100	

Recommended Maintenance Schedule

The following maintenance schedule is recommended at every time interval stated below.

SERVICE POINTS	FREQUENCY IN HOURS						
	GREASE	DRAIN	CHECK	CLEAN	CHANGE	FILL	TORQUE
Machine Care				10			
Liquid Tank				10			
Cab				10			
Trailing Arm Pivot Area				10			
Fuel Tank						10	
Engine Oil Level			10				
Hydraulic Oil Level			10				
Coolant Level			10				
Brake Operation			10				
Indicators, Switches, Lights			10				
Safety Equipment			10				
Wheel Nuts							10
Boom Cylinders and Joints	10						
Boom Parallel Linkage	10						
Strut and Axle Assembly (Hours vary see recommendation)	10						
Fuel Filter Water Drain		50					
Fuel Tank Water Drain		50					
Battery Connections			50				
Hub Lubricant Level			50				
Loose Bolts or Parts			50				

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SERVICE POINTS	FREQUENCY IN HOURS						
	GREASE	DRAIN	CHECK	CLEAN	CHANGE	FILL	TORQUE
Tire Pressure			50				
Engine Air Filter			50				
Radiator and Coolers				50			
Battery Top				250			
Hydraulic Hoses and Wiring Connections			250				
Air Intake Hoses			250				
A/C Compressor Belt			250				
Engine Coolant Mixture Level			250				
Engine Oil					250	250	
Engine Oil Filter					250		
Gear Increaser Lubricant					500	500	
Hub Lubricant					500	500	
Hydraulic Tank Fluid					500	500	
Hydraulic Return Filter					500		
Coolant Filter /Conditioner / Hoses					500		
Hydraulic System Breather					500		
Fuel Filter					500		
In-line Fuel Filter					500		
Fuel System Air Removal				500			
Spray System			500				
Cab Recirculation Screen					900		
Cab Air Filter					900		
Engine Air Filter (Primary/Secondary)					1200		
Coolant					2100	2100	

NOTE: *Be sure to completely read through the Maintenance section. There are important warnings and notes that apply to the items above.*

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QUICK REFERENCE TO TROUBLESHOOTING

The following chapter covers common problems that might occur on your vehicle with probable causes and suggested corrective action.

The troubleshooting listings are theoretical, systematic, searches for malfunctions in your vehicle. If all symptoms are known and properly diagnosed, it is relatively easy to determine what component is malfunctioning and what corrective action is required to restore your machine to proper operation.

Your sprayer consists of five major components not including optional equipment:

1. Engine
2. Hydraulic System
3. Electrical System
4. Liquid Spray System
5. Rate Controller

The sprayer has the following self-diagnostic equipment installed to simplify troubleshooting of the machine.

- Amp gauge
- Fuel gauge
- Engine temperature gauge
- Engine oil pressure gauge
- Air cleaner restriction indicator and light
- Hydraulic oil tank level sight gauge and light
- Hydraulic oil temperature gauge and light
- Hydraulic system charge pressure light
- Hydraulic oil return filter light
- Charge filter light
- Sparge pressure gauge
- Boom pressure gauge
- Foam Marker gauge

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CAPACITY (LOAD) TEST

The capacity of a battery is the ability to give current and maintain voltage. If the battery passes the capacity test, the battery is in satisfactory condition. However, the battery may need additional charging. When a battery is cold, below 80°F (27°C), the battery can have a lower discharge capacity. If a cold battery fails the capacity test, let the battery stand until the temperature reaches 80°F (27°C). Then test the battery again.

Procedure

1. Turn the load control knob on the tester to the OFF position.
2. Turn the voltage switch on the tester to 16 volts for a 12 volt battery.
3. Connect the tester wires as shown:

   Red clips to battery positive post.
   Black clips to battery negative post.

NOTE: *The wire clips from the volt meter side of the tester must contact the battery posts.*

4. Turn the load control knob clockwise until the ampere hour rating of the battery is reached. If the tester is not equipped with an ampere hour rating scale, set the load control at three times the ampere hour rating of the battery.

EXAMPLE: 180 amperes for a 60 ampere hour battery.

NOTE: *If the battery being tested has been made for use in high temperature climates, set the load control at two and a half times the ampere hour rating of the battery.*

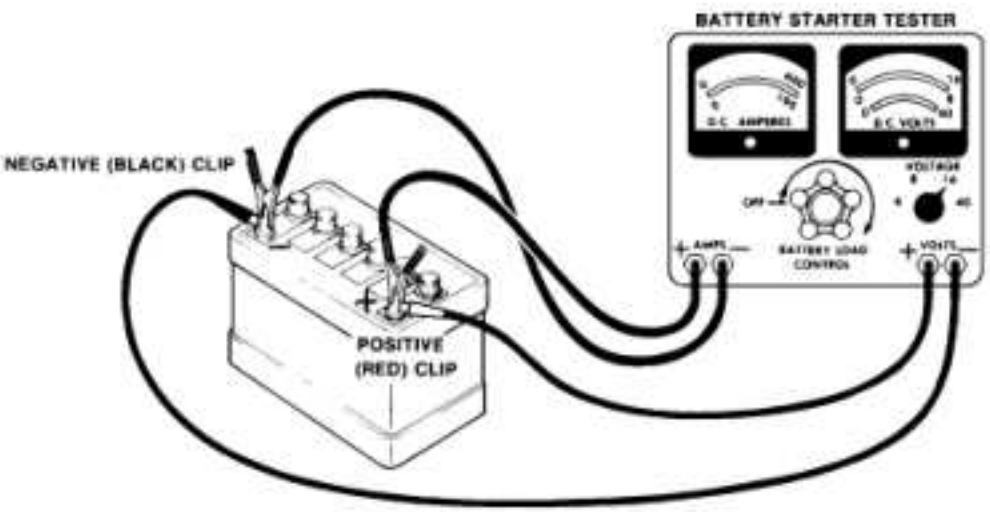
5. Only apply the load on the battery for 15 seconds. Check volt meter figure and turn load control counter-clockwise to the OFF position.

If the volt meter reading was in the green band or at least 9.6 volts for a 12 volt battery, the battery has good output capacity. Test the specific gravity of the battery and charge if necessary before putting in service.

If the volt meter reading varied by more than 0.1 volts, the battery has one or more defective cells.

If the volt meter reading was below 9.6 volts for a 12 volt battery, do the Three Minute Charge Test to see if the battery is discharged or defective.

CAPACITY (LOAD) TEST HOOK UP

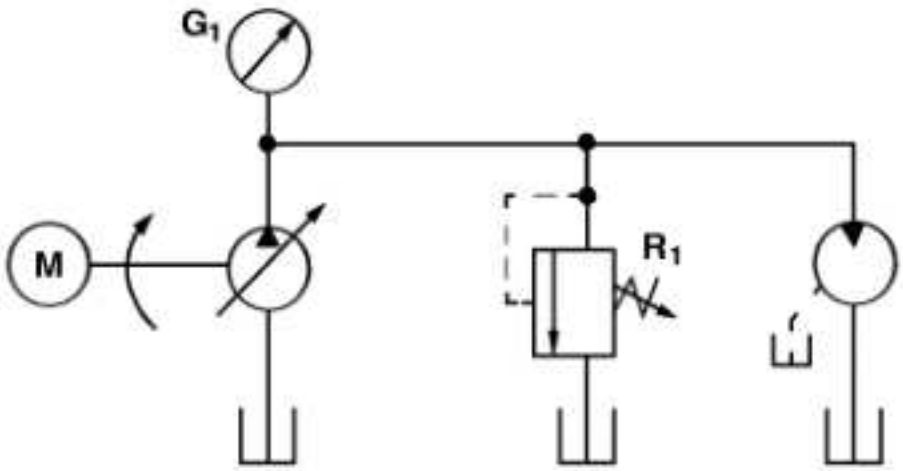


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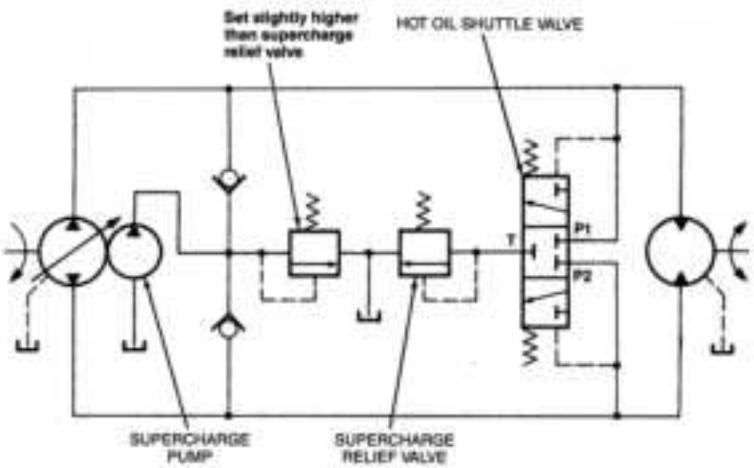
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HYDRAULIC SCHEMATICS AND DIAGNOSTICS

Open Loop



Closed Loop



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