

# P35

Operation Manual  
&  
Spare Parts Book



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## **SET UP PROCEDURES**

1. Hook up the electric connection assembly to the vehicle's battery and position the inline on/off switch near the operator's seat.
2. Calculate the calibration needed for your spray application
3. Install the orifice needed. (The Blue Orifice is Pre installed)
4. Test the sprayer using clean water in the tank, start the engine, open both valves on the distribution head, and turn on the in line switch. Determine if both nozzles are required to cover the crop. (use of one or two nozzles makes little if any changes in the calibration)

## **MIXING AND USE PROCEDURES**

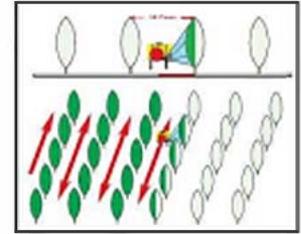
1. Fill Tank with 4 less gallons than the required amount for spraying to allow room to add the Pre Mixed (Do not add chemical yet)
2. Close the two valves on the distribution head.
3. Turn on the electric pump (Vehicle engine must be running)
4. Add mixed chemical into the opening of the tank.
5. Leave electric on until you arrive at the spray sight (Power is required for adgitation)

## **READY TO SPRAY**

1. Start engine on sprayer
2. Turn off the inline switch and open the valves on the distribution head
3. Set the spray head for the best angle for full coverage of the crop. It is best to keep the sprayer low and angle the head upwards to ensure full coverage of both sides of the leaf.
4. Adjust the throttle of engine until fine mist is created.
5. Turn on the inline switch and begin spraying.

# How to Calibrate A P35 Atomizer Sprayer

1. **“ER” Effective Range** – ½ the feet of Row Spacing up to 12 feet wide. In rows wider than 12 feet, use a constant of 6



2. **“M.P.H.”** - Check your actual tractor MPH. on the terrain you are spraying on. Set the tractor gear comfortable for spraying. Measure the distance traveled in 1 minute, divide by 88 will equal M.P.H.



3. **“G.P.A.”** - The P35 Atomizer sprayer provides more droplets for coverage, using the same amount of water as a high pressure sprayer. Allowing you to use less Gallon per Acre, on average the ratio is 4:1. The typical grower has found success using only 30 G.P.A. in a controlled canopy, with a targeted spray. We recommend 15-20-25-30 G.P.A.

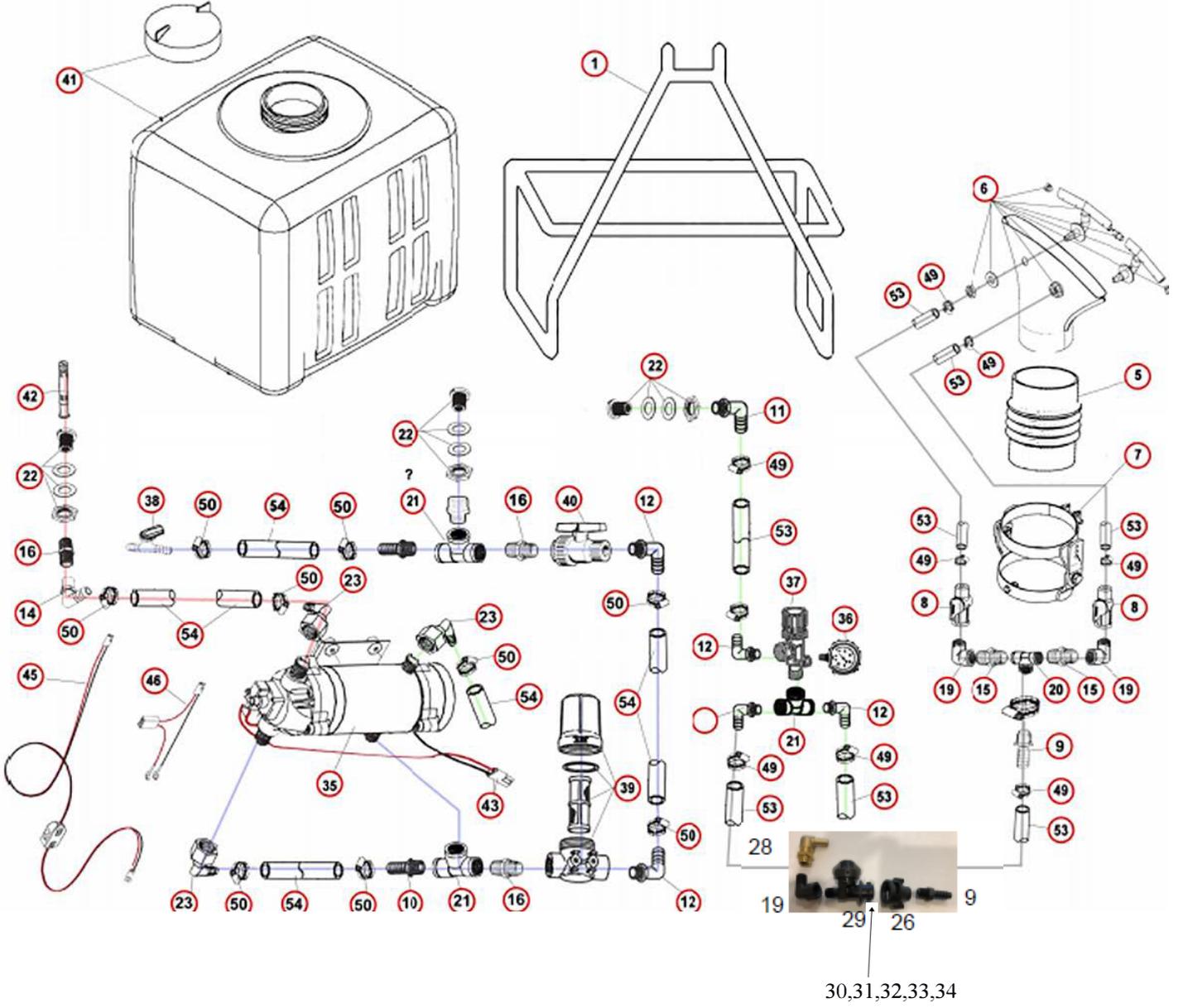
4. **FORMULA** Answer in G.P.M. (Gallons per Minute)

$$\frac{\text{G.P.A.} \times \text{M.P.H} \times \text{E.R.}}{500} = \boxed{\phantom{000}} \text{ G.P.M.}$$

5. **SPRAYHEAD CHART** Find the GPM below which most closely matched the number you determined in the formula above. Set the pressure gauge and insert the correct Orifice disc accordingly.

	PSI @ 20	PSI @ 25	PSI @ 30
D4 YELLOW	0.37 GPM	0.41 GPM	0.45 GPM
D5 BLUE	0.58	0.65	0.71
D6 RED	0.79	0.89	0.97
D7 BROWN	1.10	1.20	1.30
D8 GRAY	1.40	~	~

6. **MIXTURE DOSAGE** For application amount consult the label of the chemical that is being applied. Example: ( X lb's ) per Acre. Simply mix that amount in the GPA amount chosen during the Calibration to apply



N°	Code	Descrizione
1	P30-LSI.P30	BD Frame, P30 3PT w/skids
2	P30-Paint	P30-Powder coating Gloss Black
3	P30-exhaust tube	Tube 3" exhaust pipe 3" long..
4	P30-BL3A/1	CF-Engine/Blower assy...
5	P30-02.020.000	CI-Bellows..
6	P30-02.195.200C	CI-Fishtail Assy for P30
7	P30-02.046.000	CI-Swivel clamp, Ø85 [&P30]..
8	P30-20.202.200	CI-Valve, shut-off..
9	P30-3A1438	PB-Fitting, ¼" M.P. × 3/8" barb..
10	P30-3A1212	PB-Fitting, ½" M.P. × ½" barb..
11	P30-3EL1238	PB-Fitting, 'L', ½" M.P. × 3/8" barb..
12	P30-3EL1212	PB-Fitting, 'L', ½" M.P. × ½" barb..
13	P30-3EL3412	PB-Fitting, 'L' ¾" M.P. × ½" barb..
14	P30-3EL3412F	PB-Fitting, ¾" F.P. × ½" barb..
15	P30-3M14	PB-Fitting, ¼" NPT all thread nipple..
16	P30-3M12	PB-Fitting, ½" M × ½" M..
17	P30-8M3412 (62233)	PB-Reducer nipple, ¾×½" ..
18	P30-3RB3414	PB-Reducer bushing, ¾M×¾FM..
19	P30-3SE14	PB-Fitting, 'L', ¼" M.P. × ¼" F.P...
20	P30-3TT14	PB-Fitting, 'Tee' ¼" NPT..
21	P30-8TT12	PB-Tee, poly ½" schedule 80..
22	P30-60401	PB-Fitting, bulkhead ¾" double tap..
23	P30-803401	PB-Fitting, 'L' ½" F.P.T. × ½" barb adapter, pump..
24	P30-38027	PB-Cap, nozzle body..
25	P30-2266914PPB	PB-Fitting, 90° nozzle body, ¾NPT..
26	P30-QJ4676-90-¼NYB	PB-Adapter, QJ ¼" 90° Female NPT..
27	P30-CP18999ERP	PB-Gasket, split..
28	P30-6471A400TBD	PB-Nozzle body, 'L', 3/8" barb brass..
29	P30-QJ8360NYB	PB-Nozzle, anti-drip, 10 PSI..
30	P30-DVP4	PB-Orifice, #4 yellow..
31	P30-DVP5	PB-Orifice, #5 blue..
32	P30-DVP6	PB-Orifice, #6 red..
33	P30-DVP7	PB-Orifice, #7 brown..
34	P30-DVP8	PB-Orifice, #8 gray..
35	P30-4211-035	PB-Pump, ShurFlo 12V, 7GPM..
36	P30-GG60	PB-Gauge, pressure, 60PSI..
37	P30-2312012PP	PB-Pressure relief valve, ½" ..
38	P30-9408	PB-BallValve, ½" barb (drain)..
39	P30-AA12212PP16	PB-Strainer assy., ½"×16mesh inox..
40	P30-050SUBV	PB-Valve, ball, ½" (Arag)..
41	P30-47026	PB-Tank, 30 gal...
42	P30-33710019	PB-Jet agitator....
43	P30-47965	PB-Connector pair, flat 12V..
44	P30-DC784	PB-Flex Gard Wire Cover 3/8" ..
45	P30-SPT-SWH-9615A-1...	PB-'Wiring harness w/switch
46	P30-SPT-BCG-1215A-16G	PB- fuse Conector..
47	P30-01412	PB-3PT pin, Top Link, ¾" × 3½" ..
48	P30-002000 (80235)	PB-3PT pins, lower Cat I 7/8×5½" ..
49	P30-62602	PB-Clamp, ¼ × 5/8", N..
50	P30-62606	PB-Clamp, 5/16 × 7/8", N..
51	P30-HC067 "F"	PB-Snap grip Clamp .67"-.59" size F
52	P30-HC075 "G"	PB-Snap grip Clamp .75-.67 size G..
53	P30-8006	PB-Tubing, 3/8" Jiffy hose (per foot unit)..
54	P30-8008	PB-Tubing, 1/2" Jiffy hose (per foot unit)..

Optional Parts:

SPT-WHE-3016G - Dual Plug

SPT-WHE-96-16G - Extention 8 Ft.

Sprayer Engine illustrated parts list is available for download at [www.BDIMachinery.net/7](http://www.BDIMachinery.net/7)

# Witerize Procdure P35 Sprayer

1. Open the quick drain valve to drain the tank.



2. Twist the Quick Change Teejet orifice housing and drian out the hose connected to the spray head.



3. Un Screw the filter bowl and let drain.



4. Twist the thumb screws attached to the pump off and allow hoses to drain. Then run the pump for a few seconds to flush the water from inside the pump.



**CAUTION**  
Read directions  
before  
operating

**DANGER**  
  
Do not stand  
in front of  
machine while  
operating

**DANGER**  
  
DO NOT USE  
WITHOUT  
WEARING EAR  
PROTECTION

**DANGER**  
  
SAFETY  
SHOES MUST  
BE WORN

**DANGER**  
  
**HOT**

**DANGER**  
  
SAFETY  
GLASSES

**DANGER**  
  
Wear  
respirator  
while  
spraying

**DANGER**  
  
TOXIC  
CHEMICALS

**DANGER**  
  
WEAR GLOVES  
WHILE HANDLING  
CAUSTIC  
SOLUTIONS

**DANGER**  
FLYING  
OBJECTS 