

# SERVICE MANUAL

## **Guardian™ SP.300F / Guardian™ SP.345F / Guardian™ SP.400F Tier 4B (final) Sprayer**

*Guardian™ SP.300F - PIN YGYM01022 and above; Guardian™ SP.345F - PIN YGYM01022 and above;  
Guardian™ SP.400F - From PIN YFYM00909 to YGYM01021; PIN YGYM01022 and above*

**Part number 48001084**

1<sup>st</sup> edition English

July 2016

*Replaces part number 47834791*





## **SERVICE MANUAL**

**SP.300F 2 wheel steer [YGYM01022 - ], SP.300F 4 wheel steer [YGYM01022 - ],  
SP.345F 2 wheel steer [YGYM01022 - ], SP.345F 4 wheel steer [YGYM01022 - ],  
SP.400F 2 wheel steer [YFYM00909 - YGYM01021], SP.400F 2 wheel steer  
[YGYM01022 - ], SP.400F 4 wheel steer [YFYM00909 - YGYM01021], SP.400F 4  
wheel steer [YGYM01022 - ]**

# Contents

---

## INTRODUCTION

Engine.....	10
[10.001] Engine and crankcase .....	10.1
[10.114] Pump drives .....	10.2
[10.216] Fuel tanks .....	10.3
[10.206] Fuel filters .....	10.4
[10.202] Air cleaners and lines .....	10.5
[10.500] Selective Catalytic Reduction (SCR) exhaust treatment .....	10.6
[10.400] Engine cooling system .....	10.7
[10.414] Fan and drive .....	10.8
Front axle system .....	25
[25.100] Powered front axle .....	25.1
[25.108] Final drive hub, steering knuckles, and shafts .....	25.2
Hydrostatic drive.....	29
[29.218] Pump and motor components.....	29.1
Brakes and controls .....	33
[33.202] Hydraulic service brakes .....	33.1
Hydraulic systems.....	35
[35.000] Hydraulic systems.....	35.1
[35.300] Reservoir, cooler, and filters.....	35.2
[35.220] Auxiliary hydraulic pump .....	35.3
[35.752] Hydraulic fan drive cooling system.....	35.4
[35.610] Machine leveling control system .....	35.5
Pneumatic system .....	36
[36.100] Pneumatic system.....	36.1
[36.908] Pneumatic suspension .....	36.2

<b>Steering</b> .....	<b>41</b>
[41.101] Steering control .....	41.1
[41.216] Cylinders .....	41.2
<b>Wheels</b> .....	<b>44</b>
[44.511] Front wheels.....	44.1
[44.520] Rear wheels .....	44.2
<b>Cab climate control</b> .....	<b>50</b>
[50.100] Heating .....	50.1
[50.104] Ventilation .....	50.2
[50.200] Air conditioning.....	50.3
<b>Electrical systems</b> .....	<b>55</b>
[55.000] Electrical system .....	55.1
[55.100] Harnesses and connectors.....	55.2
[55.015] Engine control system.....	55.3
[55.201] Engine starting system .....	55.4
[55.301] Alternator .....	55.5
[55.302] Battery.....	55.6
[55.640] Electronic modules .....	55.7
[55.050] Heating, Ventilation, and Air-Conditioning (HVAC) control system.....	55.8
[55.047] Steering control system .....	55.9
<b>Spraying</b> .....	<b>78</b>
[78.110] Chemical spraying.....	78.1
[78.111] Spraying pump .....	78.2
[78.120] Foam marking system.....	78.3
<b>Platform, cab, bodywork, and decals</b> .....	<b>90</b>
[90.151] Cab interior.....	90.1
[90.120] Mechanically-adjusted operator seat.....	90.2

[90.100] Engine hood and panels ..... 90.3

[90.116] Fenders and guards ..... 90.4

It's a preview. You can download the full file by clicking the link below.

<https://shopservicemanual.com/>

Service Manuals from 2\$