# Sweep System - SharedPower

# Shared Power System\* (Patented Issued 4/21/2015 US# 9,010,467 B2)

Chassis power is used to boost system performance by providing power to the auxiliary engine; either through excess horsepower available from the chassis engine or by reclaiming energy from chassis regenerative braking.

# Sweep System-Components

# **General Specifications**

Measured sweeping path (with 36" side broom): Suction nozzle only 32 in. (813 mm) Suction nozzle and one side broom 52 in. (1320 mm) Suction nozzle and extension broom 78 in. (1981 mm) Suction nozzle, extension, and one side broom 95 in. (2413 mm) Dual suction nozzles, side brooms and extension broom 144 in. (3658 mm)

#### Blower

Drive Fluid coupler and 5-groove banded power belt with adjustable idler pulley Blower Construction Hardox brand steel Blower Housing 10 gauge (3.4 mm) steel, rubber-lined for extended wear

#### Vacuum Nozzle and Hoses

Nozzle Width 32 in. (813 mm) Pickup Area 174 in<sup>2</sup> (1119 cm<sup>2</sup>) Construction Abrasion resistant steel components Hose Connection Quick disconnect type at lower area near vacuum nozzle Hose Construction Flexible rubber, steel reinforced Hose 11 in. (280 mm) inside diameter

# **Side Broom**

Diameter 28 in (711 mm) WB Chassis Specific

36 in (914 mm) WB Chassis Specific Construction Steel plate Speed Constant Drive Hydraulic motor, protected by relief valve Mounting Free floating trailing arm

# Available Enhancements

- Front spray bar
- Aux. lighting packages
- In-cab side broom tilt
- Variable broom speed
- Auxiliary hydraulic system
- Wandering hose
- 8 in (203 mm) diameter
- Auto lubrication system • LifeLiner® Hopper System
- Stainless steel hopper
- 10 yd<sup>3</sup> hopper
- Hopper inspection door(s)
- Hopper deluge washout system
- Hopper drain
- Auto-shutter
- · High/low pressure washdown

## **Auxiliary Engine**

Make John Deere 4045T Tier 4 Final Type 4 cylinder, turbocharged diesel Displacement 276 cu. in. (4.5 L) Horsepower 74 (55 kW) @ 2400 RPM Torque 224 ft-lbs (304 Nm) @ 1600 RPM Oil Filter Spin-on full flow Air Cleaner Dual safety element dry type Auto Shutdown For Low Oil / High Temp **Electronic Throttle** 

### **Instrumentation / Controls**

Rocker switches in central console gauges: Tachometer, hour meter, oil pressure, fuel, voltmeter, coolant temperature, spray water level gauge, hopper up, hopper rear door open, full load indicator Memory Sweep Sweep resume feature

#### Side Broom Cont.

Motion Pneumatically inward/outward, raised/lowered Tilt Adjustment Inward/outward, forward/backward Digging Pressure/Wear Control Pneumatic in cab Type Segment set disposable Material Tempered steel wire

#### **Extension Broom**

Diameter 16 in. (406 mm) Length 54 in. (1372 mm) Speed Constant Drive Hydraulic motor, protected by relief valve Digging Pressure/Wear Control Pneumatic outside cal Lift Control Pneumatic from control panel Type Polypropylene prefab, disposable Location Center of sweeper

### **Debris Hopper**

Volumetric Capacity 8.0 yd<sup>3</sup> (6.0 m<sup>3</sup>) Floor Angle 10° Dump Angle 50° Construction 10 gauge (3.4 mm) steel sides and top, 1/4" gauge (6.4 mm) steel floor Lifting Double acting hydraulic cylinder Hopper Dump Door Hydraulic open/close and lock/unlock Full Load Indicator Weight actuated with in-cab warning light Hopper Screens Hinged, quick release, steel Safety Prop Steel bar under body and outside rear door Lights Side broom, rear clearance, rear Hopper Dumping Controls Push button on right side of unit In Cab Dumping Controls Standard

### **Spray Water System**

Auxiliary water tank capacities

• PM-10 water system

• Extended warranty

Water Tank Construction Dual polyethylene, removable

### Chassis

Powder Coated, Standard Elgin white

Available on commercial cabover and conventional Consult factory.

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## Spray Water System Cont.

Water System Capacity 335 gal. (1268 L) standard **Pump Type** Twin diaphragm with run-dry capability with HI and LO selectable pump speeds. System Flow 8 GPM (30 LPM) (2 - 4 GPM Pumps) System Pressure 40 PSI (2.8 bar) Spray Nozzles (Quick Disconnect Type) 7 inside each suction nozzle 4 at extension broom 3 at each side broom (36" broom) Controls On/off at control panel Filter 100 mesh, cleanable Anti-Siphon Fill Standard Hydrant Fill Hose 16 ft. 8 in. (5080 mm) with coupling

## **Hydraulic System**

Purpose: Powers hydraulic motors on side broom, extension broom, and hopper cycle Hydraulic Pump Capacity 8.3 GPM (31 LPM) @ 2500 RPM, each section (16.6 GPM Total) Hydraulic Pump Direct gear driven, tandem type Reservoir Capacity 23 gal (87 L) Filter 10 micron, spin-on type with in-cab restriction indicator

## **Electrical System**

Alternator 95 amperes Battery 12 volt, 1000 CCA identification Reversing Safety Electric back-up alarm, sweep components raise automatically Wiring Harnesses Color coded, function stamped and labeled every 4 in (100 mm)

# Warranty

1 year parts and labor

Engine **Consult Factory** 



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