

## Sweep System – SharedPower

### SharedPower 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.

### 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

### Electrical System

**Voltage** 12 volt  
**Sweeper Battery Rating** 1000CCA  
**Sweeper Engine Alternator** 95 amperes

## Sweep System – Components

### General Specifications

#### Sweeping path:

**Pickup Head only**  
90 in (2,286 mm)  
**Pickup Head & one Side Broom**  
117 in (2,971 mm)  
**Pickup Head & two Side Brooms**  
144 in (3,658 mm)  
**Travel speed** Up to highway speed

### Blower

**Drive** Direct 5-groove banded power belt with adjustable idler pulley  
**Blower Construction** Hardox brand steel  
**Blower Housing** 10 gauge (3.4 mm) Steel, replaceable urethane-lined for extended wear

### Pickup Head

**Length** 90 in (2,286 mm)  
**Head Area** Approx. 2,700 in<sup>2</sup> (17,420 cm<sup>2</sup>)  
**Hose Diameters**  
**Pressure** 14 in (355 mm)  
**Suction** 12 3/4 in (324 mm)  
**Control** Hydraulic raising and lowering  
**Vacuum Enhancer** External, manually controlled  
**Hose Connection** Quick disconnect type near pickup head at lower area of suction hose  
**Hose Construction** Flexible rubber steel reinforced

### Side Broom

**Diameter** 42 in (1067 mm)  
**Disc Construction** Steel plate  
**Speed** Constant  
**Drive** Hydraulic motor, protected by relief valve  
**Mounting** Free floating trailing arm  
**Motion** Pneumatically inward/outward, raised/lowered  
**Adjustment** Inward/outward, forward/backward  
**Digging** Pressure/wear control pneumatic in cab  
**Sweep Position** Fully extended or in front of pickup head with optional full retract feature  
**Type** Segment set disposable

### Hydraulic System

**Purpose** Powers hydraulic motors on side brooms and activates hopper dump cycle  
**Hydraulic Pump Capacity** 7.7 GPM (29 LPM) @2500 RPM  
**Reservoir Capacity** 23 gal (87 L)  
**Filter** 10 micron, spin-on type

### Debris Hopper

**Volumetric Capacity** 8 yd<sup>3</sup> (6 m<sup>3</sup>)  
**Effective Dump Angle** 50 degrees  
**Dust Separator** Self-cleaning, centrifugal  
**Lifting** Hydraulic, two-stage telescoping cylinder

**Hopper Dump Door** Hydraulic open/close and lock/unlock

**Hopper Dumping Control** Push button on right side of unit  
In cab dumping controls standard  
**Hopper Screens** Hinged, quick release, steel

### Spray Water System

**Water Tank Construction** Polyethylene  
**Water Tank Capacity** 240 gal (908 L)  
**Fill Hose** 16 ft 8 in (5,080 mm)  
**Pump Type** Diaphragm with run-dry capability with HI or LO selectable pump speeds  
**Pump Capacity** 8 GPM (30 LPM)  
**Pump Pressure** 40 PSI (2.7 bar)  
**Spray Nozzles** Total of 16 (21, with optional centerbroom)  
Quick release brass for ease of cleaning or service  
7 in pickup head (12 if with centerbroom)  
3 in suction tube  
6 (3 each) side brooms  
**Controls** On-off switches in cab, manually adjustable valves  
**Filter** 100 mesh, cleanable  
**Fittings** Prestomatic Push-To-Lok type with thermoplastic tubing

## Available Enhancements

- Alt fuel package
- Glycol recovery system
- FSX Airport Application System
- MemorySweep®
- Broom hour meter
- Full broom retract
- In-cab vac enhancer control
- Enhanced water control
- 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
- Hopper inspection door(s)
- Hopper deluge washout system
- Hopper drain
- Centerbroom in pick-up head
- High/low pressure washdown
- Auxiliary water tank capacities
- Water system air purge
- PM-10 water system
- Caster pick-up head wheels
- Full-width magnet
- Cast aluminum side air blast nozzle
- Aluminum refillable side broom segments
- Extended warranty

## Paint

Powder Coated,  
Standard Elgin white  
and gray

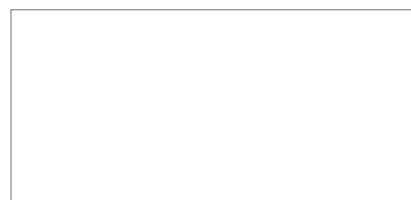
## Chassis

Available on commercial  
cab-over and conventional  
Consult factory

## Warranty

**Sweeper**  
1 year parts and labor  
**Engine**  
Consult Factory

Your Elgin Dealer is:



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