

Sweep System - Power

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.

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, rubber-lined for extended wear

Pickup Head

Length 90 in (2,286 mm)
Head Area Approx. 2,700 in² (17,420 cm²)
Hose Diameters
Pressure 14 in (355 mm)
Suction 11 in (254 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

Debris Hopper

Volumetric Capacity 8 yd³ (6 m³)
Effective Dump Angle for FSX 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 Hydraulic levers on right side of unit
Hopper Screens Hinged, quick release, steel

Hydraulic System

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

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
7 in pickup head (12 if with centerbroom)
3 in suction tube
6 (3 each) side brooms
Push in grommets style for ease of removal for cleaning and service
Controls On-off switches in cab, manually adjustable valves
Filter 100 mesh, cleanable
Fittings Prestomatic Push-To-Lok type with thermoplastic tubing

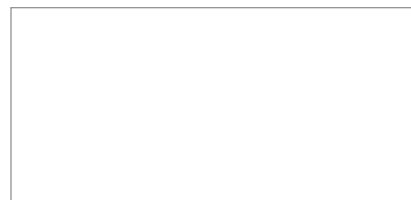
Available Enhancements

- Glycol recovery system
- MemorySweep®
- Broom hour meter
- In-cab hopper dump
- 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
- 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 nozzles
- Aluminum refillable side broom segments
- LED clearance lighting
- Front Spray Bar
- Low pressure washdown capability
- PM-10 compliant
- Extended warranty

Paint

Powder Coated,
Standard Elgin white and gray

Your Elgin Dealer is:



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Federal Signal Corporation is listed on the NYSE by the symbol FSS

Chassis

Consult factory.

Warranty

Sweeper
1 year parts and labor

Engine
Consult Factory



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Specifications subject to change without notice.
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