

Vacuum System-Shared 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, volt meter, coolant temperature, spray water level gauge, hopper up, hopper rear door open, full load indicator
Memory Sweep Sweep resume feature

Vacuum System-Components

Blower

Drive Fluid coupler and 5-groove banded power belt with adjustable idler pulley
Speed 2600 RPM
Blower Rating 30,000 CFM (843 m³/min.)
Blower Construction Abrasion resistant steel
Blower Housing 10 gauge (3.4 mm) steel, urethane lined for extended wear

Rear Vacuum Hose

Hose Connection Quick disconnect type at rear of hopper
Hose Construction Flexible rubber, steel reinforced
Hose 12 in. (305 mm) inside diameter
 164 in. (4166 mm) length

Articulated Hose Boom

Double articulated, both joints hydraulic powered
Hydraulic raise and lower
Lift Capacity 830lb - 1400lb depending on articulation
Boom Controls Wired pendant with up/down, left/right swing, and articulate, engine throttle control

Debris Hopper

Volumetric Capacity 10 yd³-13 yd³ (7.5 m³-10 m³)
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 Level Indicator
Hopper Screens Hinged, quick release, steel
Safety Prop Steel bar under body and outside rear door
Hopper Dumping Controls Push button on right side of unit
In-Cab Dumping Controls Standard

Spray Water System

Water Tank Construction Dual polyethylene, removable
Water System Capacity 335 gal. (1268 L) standard
Pump Type Triple diaphragm with run-dry capability
System Flow 23 GPM
System Pressure 290 PSI (20 bar)
Spray Wand with ball valve
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 boom, spray pump, 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
Lights Side broom, rear clearance, rear identification
Reversing Safety Electric back-up alarm, sweep components raise automatically
Blade Fuses Automotive style
Wiring Harnesses Color coded, function stamped and labeled every 4 in. (100mm)
LED Clearance Lighting Standard

Vacuum System-Components: If Equipped with Optional Sweep Gear Single Left, Right, or Dual

General Specifications

Measured Sweeping Path (with 36" side broom):
 Suction nozzle only
 35 in. (890 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)

Vacuum Nozzle and Hoses

Nozzle Width 35 in. (890 mm)
Pickup Area 333 in² (2148 cm²)

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

Extension Broom

Diameter 16 in. (406 mm)
Length 54 in. (1372 mm)
Speed Variable independent of engine speed
Drive Hydraulic motor, protected by relief valve
Digging Pressure/Wear Control Pneumatic outside cab
Lift Control Pneumatic from control panel

Type Polypropylene prefab, disposable
Location Center of sweeper

Side Broom

Diameter 36 in. (914 mm)
Construction Steel plate
Speed Variable independent of engine speed
Drive Hydraulic motor, protected by relief valve
Mounting Free floating trailing arm
Motion Pneumatically inward/outward, raised/lowered
Tilt Adjustment Inward/outward, forward/backward
Digging Pressure/Wear Control
 Pneumatic in cab
Type Segment set disposable
Material Oil tempered steel wire

Available Enhancements

- Side Broom Tilt
- Front Spray Bar
- LifeLiner® Hopper Liner
- Inspection Doors (10 yd)
- Rear Flood Light(s)
- Rotating Beacon Light
- Automatic Lubrication System
- Auxiliary Hydraulic System
- High Pressure Washdown ILO standard pump

Paint

Powder Coated,
 Standard Elgin white
 and gray

Chassis

Available on commercial
 conventional Consult
 factory.

Warranty

Sweeper
 1 year parts and labor
Engine
 Consult Factory

Your Elgin Dealer is:



Elgin Sweeper Company
 1300 W. Bartlett Rd.
 Elgin, Illinois, U.S.A. 60120-7529
 847-741-5370 Phone
 847-742-3035 Fax
 www.elginsweeper.com

Effective 4/17
 Specifications subject to change without notice.
 P/N 0705363-D