Sweep System – SharedPower

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 in² (1119 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

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

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

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 (31 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
- Lights: Side broom, rear clearance, rear identification
- Reversing Safety: Electric back-up alarm, sweep components raise automatically
- Wiring Harnesses: Color coded, function stamped and labeled every 4 in (100 mm)

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 yd³ hopper
- Hopper inspection door(s)
- Hopper deluge washout system
- Hopper drain
- Auto-shutter
- High/low pressure washdown
- Auxiliary water tank capacities
- PM-10 water system
- Extended warranty

Paint

- Powder Coated
- Standard Elgin white and gray

Chassis

- Available on commercial cabover and 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

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