

Sweep System - Power

Engine

Make John Deere 4045
Type 4 cylinder, turbocharged diesel
Displacement 276 cu in (4.5 L)
Horsepower 115 (86 kW) @ 2400 RPM
Torque 291 ft-lbs (395 Nm) @ 1400 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

Electrical System

Voltage 12 volt
Sweeper Battery Rating 1000 CCA
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
Speed 4000 RPM
Blower Rating 20,000 CFM (567 m³/min.)
Blower Construction abrasion resistant 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 14 in (355 mm)

Control Hydraulic raising and lowering
Hose Connection Quick disconnect type near pickup head at lower area of suction hose
Hose Construction Flexible rubber steel reinforced
Full Width Center Broom

Dust Extraction Blower (Clean Air)

Direct drive hydraulic
Max Speed 3500 rpm
Construction Aluminum
System on/off switch Console-mounted
Dust dump valve External

Exhausted-Air Filtration System

Federal Signal patented VR Filter System
 Combination cyclone/baghouse in parallel conveying system
 Centrifugal airflow-forming type housing with conical dust collection hopper*
Filter Type Vertically-mounted, pleated filter bags
Filter Area 580 ft² (53 m²)
Filter Rating 99.97% @ 0.3 micron
Filter Cleaning Timed, reverse air pulse

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
Type Segment set disposable

Debris Hopper

Volumetric Capacity 8 yd³ (6 m³)
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 valve on right side of unit, in-cab dump
Hopper Screens Hinged, quick release, steel

Hydraulic System

Purpose Powers hydraulic motors on side brooms and activates hopper dump cycle and VR fan system
Hydraulic Pump Capacity 40 GPM (152 LPM) @ 2500 RPM
Hydraulic Pump Direct Gear Drive on auxiliary engine & belt drive on chassis engine
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 9
 Quick release brass for ease of cleaning or service.
 3 in suction tube
 6 (3 each) side brooms
Controls On-off switches in-cab
Filter 100 mesh, cleanable
Fittings Prestomatic Push-To-Lok type with thermoplastic tubing

Available Enhancements

Auxiliary Hydraulic System	Water System Air Purge	Aluminum Refillable Side Broom Segments
In Cab Controlled Side Broom Tilt	Variable Broom Speed	High Pressure Washdown with 24 in hand lance, 30 ft hose
Rotating Beacon or Strobe Light	Low Pressure Wash Down Capability	Extended Warranty
Light Guard	Automatic Lubrication System	
Diesel Cold Weather Start Aid-Auxiliary Engine	Rear Flood Light(s)	
Wandering Hose 8 in (203 mm) diameter, 9.5 ft (291 mm) long hydraulic hose including 5 ft (1524 mm) long catch basin nozzle	Hand-held Litter Hose	
	Front Spray Bar	
	Hopper Inspection Door	
	LifeLiner® Hopper Lining	
	Hopper Deluge Washout System	

Paint

Powder Coated, Standard Elgin white and gray

Chassis

Consult Factory

Warranty

Sweeper
1 year parts and labor
Engine
Consult Factory

Your Elgin Dealer is:



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