

Sweep System - Power

Engine

Make John Deere 4045TF275
Type 4 cylinder, turbocharged diesel
Displacement 276 cu. in. (4.5 L)
Horsepower 115 (86 kW) @ 2500 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 containing:
 Tachometer, hour meter, oil pressure, fuel, voltmeter, coolant temperature, spray water level gauge, hopper up, hopper rear door open, full load indicator
Reverse Lift
Sweep/Transport (idle down and speed resume)

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 automatic adjusting 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 11 in (254 mm)

Control Hydraulic raising and lowering

Vacuum Enhancer Electrical, in-cab control

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

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

Oil Cooler Standard

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

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

Filter 100 mesh, cleanable

Fittings Prestomatic Push-To-Lok type with thermoplastic tubing

Available Enhancements

Auxiliary Hydraulic System

In Cab Hopper Dump Controls

In Cab Controlled Side Broom Tilt

Rotating Beacon or Strobe Light

Light Guard

Automatic Lubrication System

Diesel Cold Weather Start Aid-Auxiliary Engine

Wandering Hose 8 in (203 mm) diameter, 9.5 ft (2591 mm) long hydraulic hose including 5ft (1524 mm) long catch basin nozzle

Water System Air Purge Caster Wheels for Pickup Head

Variable Broom Speed Automatic

Lubrication System

Rear Flood Light(s)

Hand-held Lifter Hose

Front Spray Bar

Right-side Hopper Inspection Door

Left-side Hopper Inspection Door

LifeLiner® Hopper Lining

Hopper Deluge Washout System

Aluminum Refillable Side Broom Segments

Auxiliary Water Tanks

one 140 gal capacity or two 140 gal capacity for total capacity of 520 gal

High Pressure Washdown with 24 in hand lance, 30 ft hose

Extended Warranty

Side Air Blast(s)

Low Pressure Washdown Capability

PM-10 Compliant

LED Clearance Lighting

Paint

Powder Coated, standard Elgin white and gray

Chassis

Consult Factory

Warranty

Sweeper
1 year parts and labor
Engine
Consult Factory

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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

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