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

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 12 ³/₄ in (324 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

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 vd³ (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 Hydraulic levers on right side of unit

Hopper Screens Hinged, quick release, steel

Hvdraulic System

Purpose Powers hydraulic motors on side brooms and activates hopper dump cycle Hydraulic Pump Capacity 7.7 GPM (29 LPM) @2500 RPM 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 (21, with optional centerbroom) Quick release brass for ease of cleaning or

7 in pickup head (12 if with centerbroom)

3 in suction tube

6 (3 each) side brooms

Controls On-off switches in cab, manually adjustable valves

Filter 100 mesh, cleanable Fittings Prestomatic Push-To-Lok type with thermoplastic tubing

Available Enhancements

•Alt fuel package

reinforced

- •Glycol recovery system
- •FSX Airport Application 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
- Centerbroom in pick-up head
- 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 nozzle
- Aluminum refillable side broom segments
- 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:

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Effective 7/16 Specifications subject to change without notice