

## Sweep System - Power

### Engine

**Make** John Deere 4045TF150  
**Type** 4 cylinder diesel  
**Displacement** 276 cu. in. (4.5 L)  
**Bore** 4.19 in (106.43 mm)  
**Stroke** 5.0 in (127 mm)  
**Compression ratio** 17:1  
**Horsepower** 99 HP (74 kw) @ 2,500 RPM  
**Torque** 274 ft-lbs (372 Nm) @ 1,400 RPM  
**Fuel tank capacity** 35 gal (132.5 L)

### Standard Accessories

Full flow oil filter, mechanical governor, dual safety element dry-type air cleaner with in-cab restriction indicator, fuel filter, counterbalanced, wet sleeve

### Instrumentation

**Panel** Full vision, illuminated  
**Gauges** Speedometer/odometer, tachometer, engine hour meter, engine temperature, oil pressure, voltmeter, fuel, hydraulic oil temperature and water fill

## Sweep System - Components

### General Specifications

**Wheel Base** 127.4 in (3236 mm)  
**Overall Length** 16 ft 0 in (4877 mm)  
**Height with cab** 9 ft 10.5 in (3010 mm)  
**Width outside tires** 8 ft 6 in (2591 mm)  
**Curb to curb turning radius** 15 ft (4572 mm)

### Sweeping path:

**One side broom** 8 ft (2438 mm)  
**Two side brooms** 10 ft (3048 mm)

### Weight:

**One side broom** 13,590 lbs (6170 kg)  
**Two side brooms** 14,290 lbs (6482 kg)

**Travel speed** Up to 20 mph (32 Km/h)

**Hydrostatic drive** Single foot pedal for forward/reverse

**Hyd service brakes**

### Tires:

**Front** 11R22.5 14ply (2)  
**Rear** 10R17.5 16 ply (2)

### Wheels:

**Front** Steel disk type  
**Rear** Dual steel disk type mounted on alloy steel axle  
 Sprung guide wheel

### Cab

**Type** ISO mounted

Structural steel tube frame

Sealed w/ 100% filtered air intake Sound insulated

**Doors** See-thru with sliding upper windows

**Opening** From rear

**Dust protection** Rubber gasket sealed

**Windows** Safety glass with tinted windshield and tinted sun visors, 360° visibility

Tinted upper glass

**Dome light**

**Heater pressurizer with defroster** Multi vent air dispursement

**Windshield wipers** 2 speed intermittent, with washers, stalk actuation

**Mirrors** Inside (1); outside, dual west coast with convex inserts and (2) 10 in. oval

**Seat(s)** 21" wide deluxe foam cushion with belt(s)

**Steering** Tilt and telescoping steering column

### Main Broom

**Diameter** 35 in (889 mm)

**Length** 66 in (1676 mm)

**Type** Prefab. disposable, polypropylene double wrapped at both ends

**Core** Steel reversible

**Digging pressure & wear control** in cab  
 Hydraulic float

**Lift control** In cab hydraulic raise and lower

**Drive** Hydraulic motor

**Mounting** Hydraulic cylinder suspended

**Speed** Variable with engine RPM

### Gutter Broom

**Type** Vertical digger

**Diameter** 36 in (914 mm)

**Disc construction** Steel plate

**Speed** Variable with engine RPM

**Flexibility** In-cab positioning hydraulic float

**Drive** Hydraulic motor

**Mounting** Free floating

**Adjustment** In/out (recoil spring), up/down

**Digging pressure/wear control**

Hydraulic, in cab, pressure sensing

**Broom material** Tempered steel wire

### Conveyor

**Type** Chevron cleat reinforced rubber belt

**Speed** Variable with engine RPM

**Flexibility** 9 in. (229 mm) oscillation for large object passage

**Drive** Hydraulic motor, chain and sprocket drive

**Bearings** Sealed self-aligning, re-lube

### Debris Hopper

**Capacity volumetric** 3.6 yd<sup>3</sup> (2.8 m<sup>3</sup>)

**Material volume** 3.5 yd<sup>3</sup> (2.6 m<sup>3</sup>)

**Hopper lift and dump control** Electro-hydraulic in-cab

**Maximum dump height** Up to 9 ft 6 in (2895 mm)

**Time to tilt hopper** 17 sec

**Time to retract to working position** 21 sec

**Design lift capacity** 9,000 lbs (4,080 kg)

**Frontal dumping** Standard

## Electrical System

Hot stamped and color coded wiring, alternator/regulator-unitized, 120 ampere, **Battery** - 12 volt, group 31, 925 CCA, 180 min. reserve. **Lights** - halogen sealed multiple beam headlights, combination stop and tail lights, adjustable side broom lights, directional signals with hazard switch. Safety horn, electronic back up alarm, sweep flashers.

### Hydraulic System

**Hydrostatic Drive** Electronically controlled

**Variable displacement pump**

**Variable displacement motor**

**Fittings** 'O' ring face seal type

**Reservoir capacity** 33 gal (106 L)

**Reservoir level** Externally readable

**Inlet strainer** 100 mesh

**Filter Return**, 10 micron absolute, full flow

**Filter restriction indicator** In cab

**Breather/Fill Cap** 10 micron

### Water Spray System

**Tank construction** Polyethylene

**Tank capacity** 220 gal (832 L)

**Fill hose** 16 ft 8 in (5080mm) with hydrant coupling

**Wash down** Integral cascade hopper/conveyor wash

**Pump** Diagram with run dry capability

**Spray nozzles** Atomizing, adjacent to each broom

**Controls** On/off, volume high/low in-cab

**Filter** Non-corrosive housing, 100 mesh screen

Cleanable anti-siphon fill standard.

### Brake System

#### Service

Multi Caliper Disc type

Hydraulically applied

Power Assisted

#### Park

-Wet Disc multi pack with spring applied

hydraulically released push/pull activation

-Interlock to prevent drive through if applied

## Available Enhancements

**Waterless Dust Control**

**Dual controls** - right and left side brooms, seats, and operator controls for operation from either side for sweeping in direction of traffic

**Remote adjustment**

Heated mirrors

**Side broom tilt**

**Automatic lubrication system**

**Lifeline® hopper liner**

**Air conditioner in-cab**

**Beacon light with protector**

**Strobe light with protector**

**Electric side broom tilt indicator**

**Broom hours and mileage recorder**

**Diesel cold weather start aid**

**Limb guards**

**Extended warranty**

**Sliding rear window**

**Litter hose**

**Front Broom**

## Finish

**Powder Coat:**

Undercarriage in standard

Elgin gray

Body in choice of

186 colors

Consult factory for color chart

## Chassis

Chassis is fully welded;

formed channel and

boxed tube style with

jack points

## Warranty

**Sweeper**

1 year parts and labor

**Engine**

Consult factory

**ELGIN**  
 Subsidiary of Federal Signal Corporation



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