

## 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)

## 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 disbursement

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

## 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  
 Polyurethane 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

### 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

### 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 Chain drive

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 Positive hydraulic positioning with spring cushion float

Drive Chain and sprocket/gear

Adjustment Up/down

Digging pressure/wear control Hydraulic/spring

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

## Finish

Powder Coat:  
 Undercarriage in standard Elgin gray. Body in choice of 186 colors.  
 Consult factory for color chart.

## Chassis

Fabricated and welded heavy steel, 1/4 channel section and 3/8 sideplates, two tow hooks front and rear with jack points

Your Elgin Dealer is:



Printed in U.S.A. © 2007 Federal Signal Corporation  
 Federal Signal Corporation is listed on the NYSE by the symbol FSS

## 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 Twin 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

## Warranty

### Sweeper

1 year parts and labor

### Engine

Consult factory

**ELGIN**  
Subsidiary of Federal Signal Corporation

Subsidiary of Federal Signal Corporation

Elgin Sweeper Company  
 1300 W. Bartlett Road  
 Elgin, Illinois, U.S.A. 60120  
 847-741-5370 Phone  
 847-742-3035 Fax  
 sales@elginsweeper.com E-mail



Effective 1/07

P/N: 0705333-A

Specifications subject to change without notice