



# VT651 Specification Sheet

**SERIES** VT651

**SUBJECT** Technical Information and Data

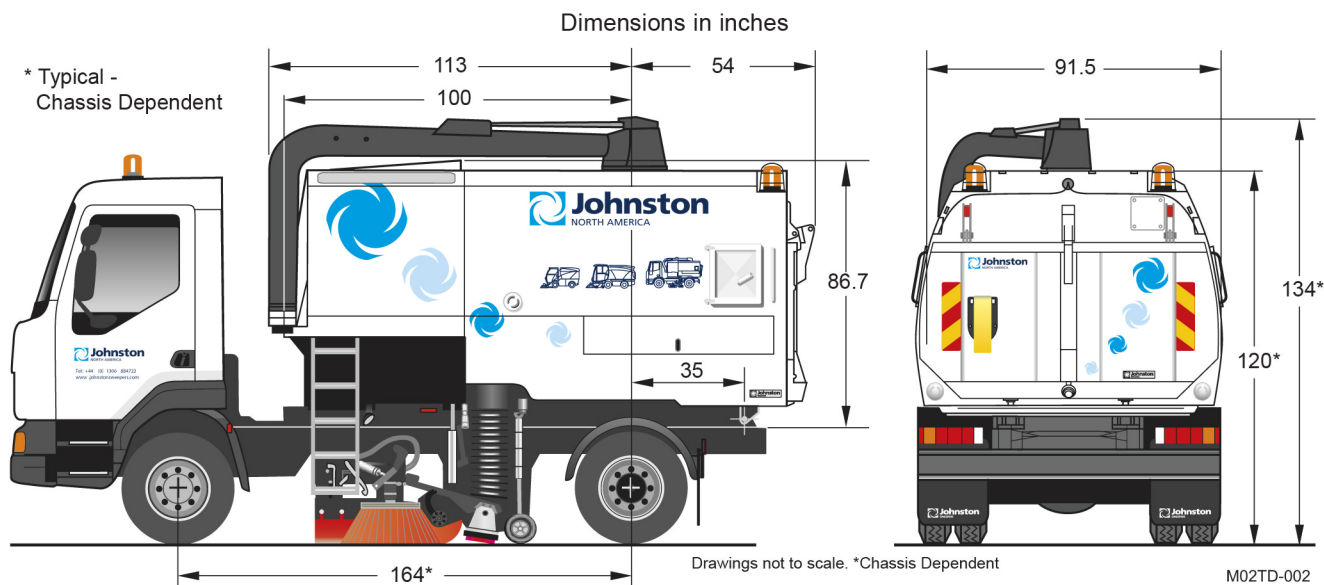
## VT651 SWEEPER

Sheet 1 of 2

Revision Number: 02-14

Date: 02/20/2014

Reference: JNA 022014



### Data and Performance Information

Capacities	
Hopper voided volume	8.5 yd <sup>3</sup> nominal
Fuel tank	50 gallons
Water tank	415 gallons
Hydraulic system	20 gallons

Engine Data	
Model	JCB Ecomax 444
Cubic capacity	4 litres
No. of cylinders	4
Gross rated power	74 HP
Maximum torque	295 ft/lbs @ 1250 rpm
Legislation compliance	US EPA Tier 4 Final
Operational rpm	Variable 1500-2000 rpm
Sump capacity	3 gallons (US)
Ambient temperature	120°F worldwide approval
Cold start capability	-4°F

Sweeping Equipment	
Gutter Broom (GB)	28 inches
Wide Sweep Broom (WSB)	16 X 50 inches
GB life expectancy	80 accumulated working hours
WSB life expectancy	150 accumulated working hours
Nozzle trunking diameter	10 inch I.D.
Nozzle width	30 inches

General Data	
Chassis requirement	28,600-35,000 lbs
Wheelbase	164" to 178" chassis dependent
Discharge height	42" chassis dependent
Discharge angle	55° nominal
Door opening angle	125° nominal
Hopper screen area	11.3 ft <sup>2</sup>
Water pump output	Up to 9 gal/min
Water pump pressure	50.75 psi
Hydraulic suction filtration	125 micron
Hydraulic return filtration	25 micron
Hydraulic pump displacement	Max output 7 gal
Sweeping speeds	2-10 mph (chassis dependent)

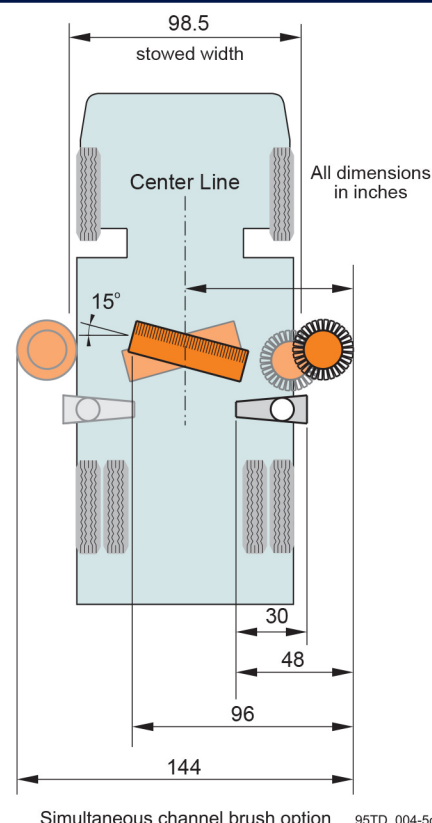
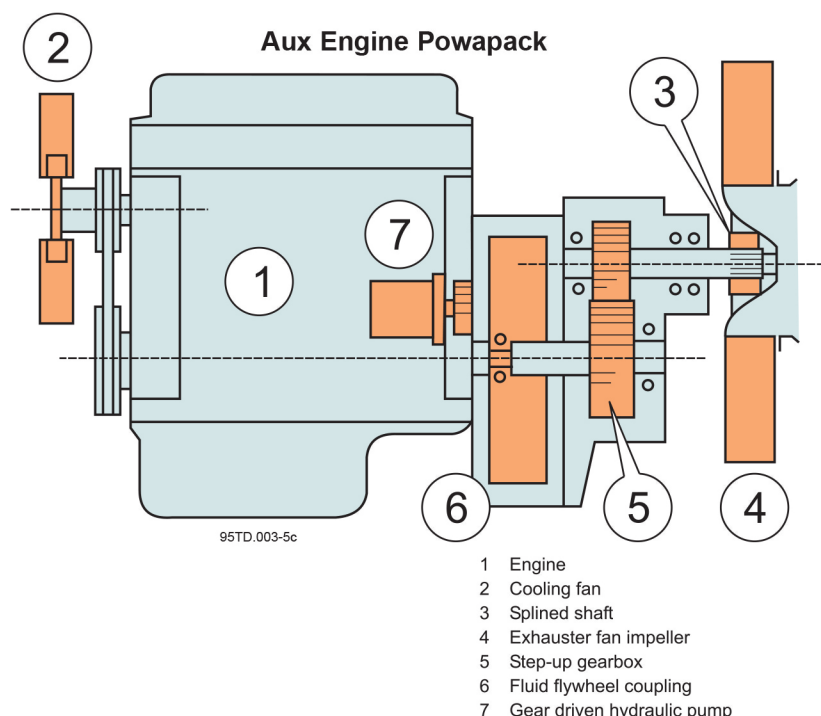
**Johnston North America Inc.**  
606 A&B Performance Road • Mooresville, NC 28115





# VT651 Specification Sheet

## Technical Specification



## Base Specification

### Performance Data

#### System Fan:

Operational speed variable between 2400 rpm - 3500rpm to suit operation. Driven from the auxiliary engine via step-up gearbox and fluid flywheel coupling.

Step-up gearbox ratio: 1.79:1

#### Gutter Broom:

Quick release brush system with infinitely variable speed up to 200rpm (cab controlled).

#### Nozzle:

H.D. alloy constructed rubber lined cast aluminium nozzle with 10 in I.D. inlet and tool free adjustment.

#### Wide Sweep Broom:

Quick release brush system with a nominal 160rpm rotation speed.

#### Dust Suppression System:

Dust suppression sprays located at suction nozzle (4), gutter brooms (4) and across front of vehicle (4).

Pressadrain water purging system.

#### Electrical System:

12 Volt

All external loom connections are certified IP67 rated. Waterproof and Dustproof.

#### Controls:

Center cab mounted master control panel with Johnston Video Monitor (JVM) providing information on a wide range of sweeper functions plus data capture download. Up to

four optional cameras can also be viewed on the JVM screen. Separate palm rest controller for the main sweeping functions is mounted on the door side.

#### In Cab Noise:

<68 dB(A) generally (dependent on chassis selection).

#### Exterior noise / Sound power level:

$L_{WA}$  79 dB(A) for standard power engines measured in accordance with EC directive 2000/14/EC.

#### Body & Cowl

- Body comprises of hopper & integral water tank. Fabricated from heavy duty 9 gauge stainless steel plate.
- Cowling is lined with 1 1/4 soundproofing material.
- Water tank incorporates anti-surge baffles and filled via a type 'A' water hydrant fill. A twin H.D. diaphragm pump runs continuously and is able to run dry. Water tight twin lock rear door latching system with de-watering function. Two body side access doors.
- Plug in hopper floor as transfer port for use as street flusher.
- Rear discharge chute, twin rear caged beacons, automatic multi position body propping mechanism and side storage lockers are standard features.

## Optional equipment

- JCB Ecomax 444 NRMM Tier 4 125 Hp @ 2200 rpm. Max torque 324.5 ft/lbs @ 1300 rpm.
- John Deere 4045T Tier 3b. Gross power 115 HP. Max torque 355 ft/lbs @ 1500 rpm.
- Camera monitoring system.
- In-Cab Gutter Broom Lateral Control.
- PM10 dust suppression system.
- In-Cab Gutter Broom Tilt Control.
- Pneumatic hopper screens.
- Powascrub - In-Cab wide sweep broom down pressure control.
- Supawash - high pressure washing system 8.5 gal/min @ 1500 psi. Hand lance, hose reel, front and nozzle spraybars.
- 8" boom mounted Wanderhose with hydraulic power assist option.
- Water recirculation.

#### Nirosta® In My Body

- Complete Hopper Constructed of Stainless Steel
- We exclusively utilize Nirosta® Stainless Steel
- Better corrosion resistance than mild steel
- Abrasion resistance better than mild steel
- Abrasion resistance better than 304 stainless steel
- Complete Stainless Steel Water Tank
- Superior corrosion and abrasion resistance
- Lowest ownership costs and best warranties
- Only "Life-Time Warranty" in the industry

*A comprehensive range of additional options is available. Please ask for details.*

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606 A&B Performance Road • Mooresville, NC 28115





# VT801 Specification Sheet

**SERIES** VT801

**SUBJECT** Technical Information and Data

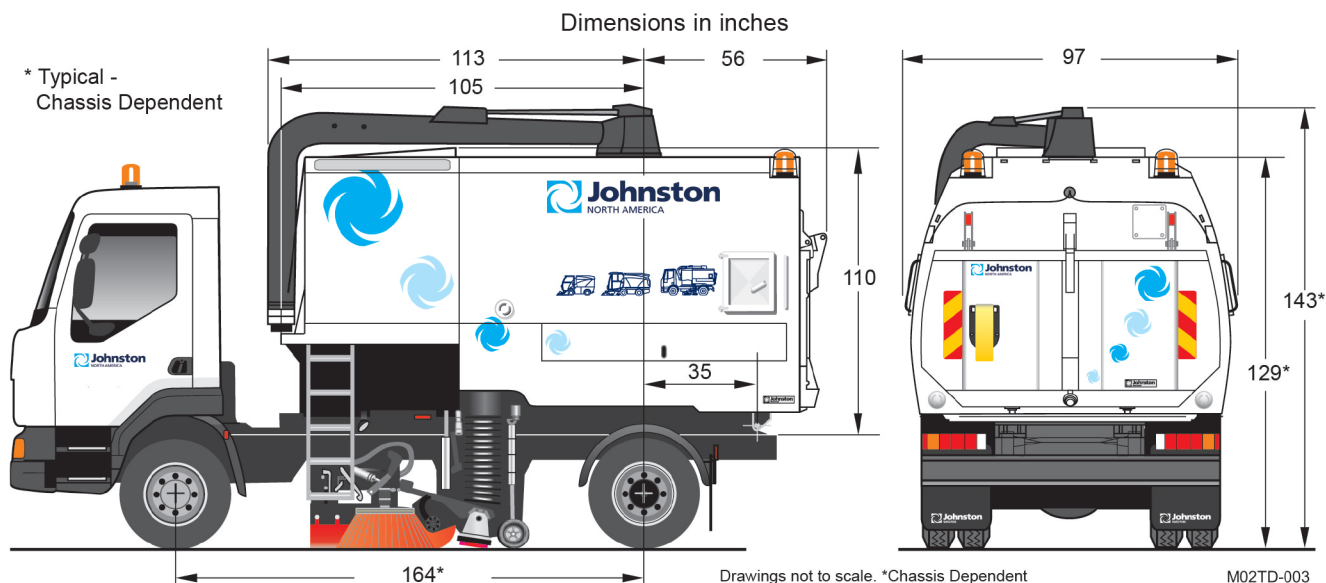
## VT801 SWEEPER

Sheet 1 of 2

Revision Number: 02-14

Date: 02/20/2014

Reference: JNA 022014



### Data and Performance Information

Capacities	
Hopper voided volume	10.5 yd <sup>3</sup> nominal
Fuel tank	50 gallons
Water tank	534 gallons
Hydraulic system	20 gallons

Engine Data	
Model	John Deere 4045 HF285
Cubic capacity	4.5 litres
No. of cylinders	4
Gross rated power	115 Hp
Maximum torque	406 ft/lbs @ 1500 rpm
Legislation compliance	US EPA Tier 3b
Operational rpm	Variable 1200-1500 & 1500-2000 rpm
Sump capacity	3 gallons
Ambient temperature	120°F worldwide approval
Cold start capability	-4°F

Sweeping Equipment	
Gutter Broom (GB)	28 inches
Wide Sweep Brush (WSB)	16 in x 50 in
GB life expectancy	80 accumulated working hours
WSB life expectancy	150 accumulated working hours
Nozzle trunking diameter	10 inch I.D.
Nozzle width	30 inches

General Data	
Chassis requirement	33,000-36,000 lbs
Wheelbase	164" - 182" chassis dependent
Discharge height	42 in (nom) chassis dependent
Discharge angle	56° nominal
Door opening angle	125° nominal
Hopper screen area	18.3 ft <sup>2</sup>
Water pump output	Up to 9 gal/min
Water pump pressure	50.75 psi
Hydraulic suction filtration	125 micron
Hydraulic return filtration	25 micron
Hydraulic pump displacement	Max output 7 gal
Sweeping speeds	2-10 mph (chassis dependent)

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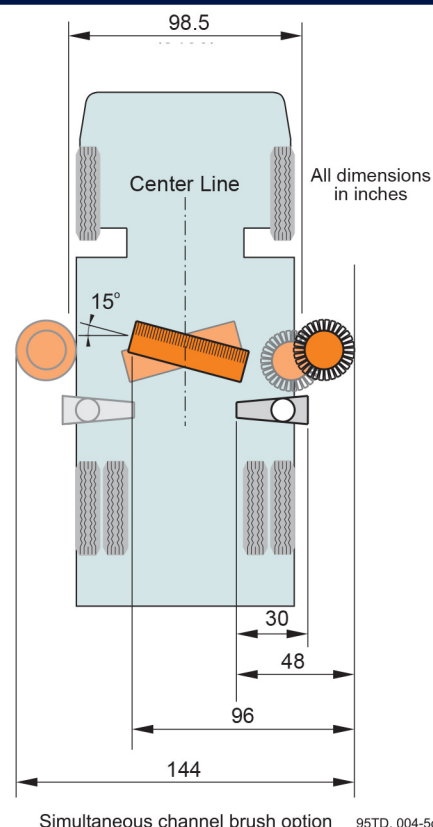
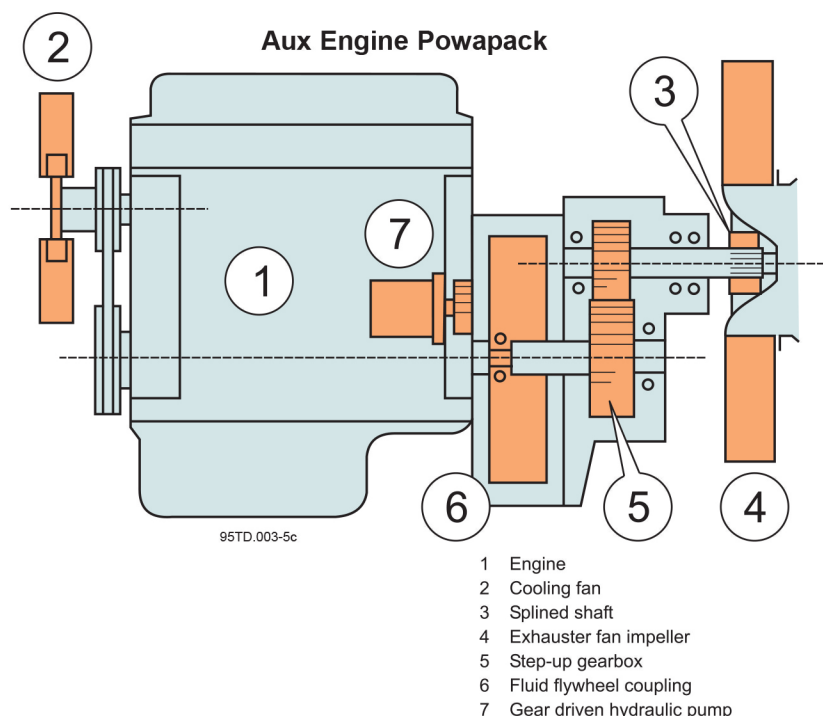






# VT801 Specification Sheet

## Technical Specification



## Base Specification

### Performance Data

#### Exhauster Fan:

Operational speed variable between 2400 rpm - 3500rpm to suit operation. Driven from the auxiliary engine via step-up gearbox and fluid flywheel coupling.

Step-up gearbox ratio: 1.79:1

#### Gutter Broom:

Quick release brush system with infinitely variable speed up to 200rpm (cab controlled).

#### Nozzle:

H.D. alloy constructed rubber lined cast aluminium nozzle with 10 in I.D. inlet and tool free adjustment.

#### Wide Sweep Broom:

Quick release brush system with a nominal 160rpm rotation speed.

#### Dust suppression system:

Dust suppression sprays located at suction nozzle (4), gutter broom (4) and across front of vehicle (4).

Pressadrain water purging system.

#### Electrical system:

12 Volt.

All external loom connections are certified waterproof & dust proof IP67 rated.

#### Controls:

Center cab mounted master control panel with Johnston Video Monitor (JVM) providing information on a wide range of sweeper functions plus data capture download. Up to

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<68 dB(A) generally (dependent on chassis selection).

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#### Body & Cowl

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## Optional equipment

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