

# VT652 Sweeper

SERIES VT652

ISSUE NUMBER 01-19

REFERENCE JS 0119



140" w/boom 126"



91.5"

113" CA  
178" WB  
276"

## Data & Performance

### Sweeping Equipment

Gutter broom (GB)	28"
Wide sweep broom (WSB)	16 x 50"
GB life expectancy	80 accumulated working hours
WSB life expectancy	150 accumulated working hours
Nozzle trunking diameter	10" I.D.
Nozzle width	30"

### Engine Data

Model	JCB Ecomax 444
Cubic capacity	4 litres
No. of cylinders	4
Gross rated power	74 HP
Maximum torque	295 FT/LB @ 1250 RPM
Legislation compliance	US EPA Tier 4 final
Operational RPM	Variable 1500-2000 RPM
Sump capacity	3 gallons (US)
Ambient temperature	120°F
Cold start capability	-4°F

### Capacities

Hopper usable volume	8.5 yd <sup>3</sup>
Hopper construction	9 gauge stainless steel <b>LIFETIME WARRANTY NO PRORATION</b>
Fuel tank	50 gallons
Water tank	415 gallons
Hydraulic system	20 gallons

### General Data

Chassis requirement	33,000-35,000 LB
Wheelbase	164 - 178" (chassis dependent)
Discharge height	42" (chassis dependent)
Discharge angle	55° nominal
Door opening angle	125° nominal
Hopper screen area	2150" <sup>2</sup>
Water pump output	Up to 9.2 GPM
Water pump pressure	50.75 PSI
Hydraulic suction filtration	125 micron
Hydraulic return filtration	20 micron
Hydraulic pump displacement	Max output 7 GPM
Sweeping speeds	2-10 MPH (debris dependent)

We are **THE ONLY** sweeper manufacturer to offer an all-inclusive warranty (2 years/2,000 hours) and an "entire debris hopper" constructed of stainless steel as a standard with a **LIFETIME WARRANTY**.

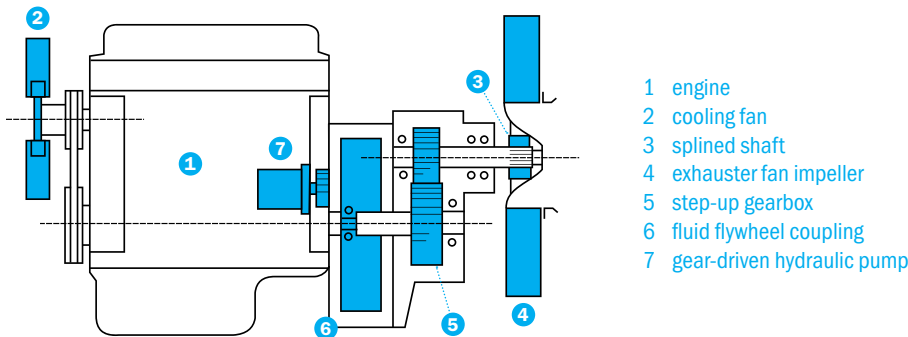


**Endless Sweeping Solutions™**

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## Technical Specifications

### AUX ENGINE STEP-UP GEAR BOX SYSTEM



- 1 engine
- 2 cooling fan
- 3 splined shaft
- 4 exhaust fan impeller
- 5 step-up gearbox
- 6 fluid flywheel coupling
- 7 gear-driven hydraulic pump

### Fan Drive System 5-YEAR WARRANTY

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

Step-up gearbox ratio: 1:1.79

### Gutter Broom

In-cab down pressure and variable speed controls (0-200 RPM) -unhanded design

### Nozzle

H.D. alloy constructed rubber lined cast aluminum nozzle with 10 in I.D. inlet and tool free adjustment -unhanded design.

### Wide Sweep Broom

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

### Dust Suppression System

Dust suppression spray nozzles located at suction nozzle (4), gutter brooms (8) and (4) front spray bar.

Cab-controlled water purging system.

### Electrical System

12 Volt

All external loom connections are certified IP67 and IP65 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 housing controls for the main sweeping functions is mounted on the door side.

### In Cab Noise

<68 dB(A) (chassis dependent)

### Exterior noise/ Sound power level

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

### Stainless Steel In My Body LIFETIME WARRANTY

Complete Hopper Constructed of 9-Gauge 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 "Lifetime Warranty" in the industry

### Debris Body LIFETIME WARRANTY

Body comprised 8.5  $\text{yd}^3$  of hopper & integral water tank. Fabricated from heavy duty 9 gauge stainless steel plate.

Cowling is lined with 1.25" soundproofing material.

Water tank incorporates anti-surge baffles and filled via a type 'A' water hydrant fill. A twin H.D. diaphragm pump is able to run dry. Water-tight twin lock rear door latching system with de-watering function. Two heavy-duty body side access doors.

Hydrant wrench and fill hose.

Hopper floor has transfer port for use as street flusher.

11" rear discharge chute, twin rear LED beacons with guards, automatic deploying multi-position body propping mechanism and side storage lockers are standard features.

Service ladder with cat walk.

### Options

- JCB Ecomax 444 NRMM Tier 4 125 HP @ 2200 RPM.  
Max torque 324.5 FT/LB @ 1300 RPM.
- John Deere 4045T Tier 3b. Flex Gross power 115 HP.  
Max torque 355 FT/LB @ 1500 RPM.
- Camera monitoring system.
- In-Cab Gutter Broom Lateral Control.
- PM10 dust suppression system.
- In-Cab Gutter Broom Tilt Control.
- Pneumatic vibrating hopper screens.
- Powascrub - In-Cab wide sweep broom down pressure control.
- Supawash - high pressure washing system  
8.5 gal/min @ 1500 PSI. Handlance, hose reel, front and nozzle spraybars.
- 8" top-mounted catch basin cleaner with hydraulic power assist and 270° operation.

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