



# TUFSWEEP650M

## MANUAL FLOOR SWEEPER

### USER MANUAL



Please read this manual before using the TUFSWEEP650M

All Errors & Omissions Excused – Specification May Change Without Notice – Please Refer To [www.v-tuf.co.uk](http://www.v-tuf.co.uk) For the Latest Version

## UK CA DECLARATION OF CONFORMITY

We



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Declare under our sole responsibility that the new machine:

Model

tufSWEEP 650M

Type

to which this declaration relates, conforms to the provision of:

Supply of Machinery (Safety) Regulations 2008  
Electrical Equipment (Safety) Regulations 2016  
Electromagnetic Compatibility Regulations 2016

Lincoln, 12/05/2025

Daniel Büchner

## Using the manual

### Using the manual

This manual has been written by the Manufacturer and is an integral part of the machine. The manual is intended for the end user. It includes a description of how to use the sweeper and its technical specification. The user must be aware of this information as it enables the sweeper to be used safely, with knowledge of its operating principles and limits. It also contains information on transport, handling, starting up, adjustment, assembly, maintenance and, finally, dismantling of the sweeper.

### Keeping the manual

The manual must be kept carefully throughout the useful life of the sweeper, including during disposal. The manual must be kept in a dry location near the sweeper and must always be available for qualified personnel and the operator. Please note that the manual reflects the technical situation at the moment in which the sweeper is put on sale and may not be considered inappropriate in the case of updating. The Manufacturer reserves the right to modify products and the manual at any moment without being obliged to update previous products and manuals, unless the modifications concern a risk to the health and safety of people or damage to things.

## General safeguards




### Working in complete safety

The safety instructions contained in this use and maintenance manual cover the various operations which may be performed on the sweeper. Safety symbols are included in the text at points which require particular attention. It is extremely important to follow these safety instructions at all times. Failure to do so could cause injury to persons and/or damage to the machine or other equipment. In consideration of this, a number of fundamental safety instructions are given below:

- **Please read and make sure you understand this section of safety instructions before installing, operating, carrying out maintenance on or repairing the sweeper.**
- **Read and follow the safety instructions contained in the text with reference to specific operations.**
- **Be aware of and respect the safety instructions in this manual, general accident prevention rules and safety regulations**

### Safety signs

The symbols given below are adopted in the use and maintenance manual to draw the operator's attention to the corresponding information. The symbols are used to warn personnel of danger or possible sources of danger. Make sure you understand them. Failure to pay attention to the symbols could result in personal injury, death and/or damage to the sweeper or equipment. The warnings may be of three types as described in the table below:

	A triangle with a border
	Indicates instructions relating to actual or possible dangers
	A circle with a diagonal bar
	Indicates instructions relating to prohibited actions.
	Solid circle
	Indicates information which must be read and respected.
<b>Danger signs</b>	
<b>Prohibition signs</b>	
<b>Obligation signs</b>	

Depending on the information to be communicated, the warnings may contain symbols which, through an association of ideas, help understand the type of danger, prohibition or obligation.

### Danger signs



**Generic danger.** This sign is used to draw attention to dangerous situations which could result in damage to persons, animals and things. Failure to respect the instructions associated with the warning may represent a danger

### Prohibition signs



**Generic prohibition.** This sign is used to draw attention to certain manoeuvres, operations or behaviours which are prohibited. Failure to respect the prohibitions associated with this sign could result in damage to things, animals and people.

### Obligation signs



**Generic obligation.** This sign is used to draw attention to instructions which must be respected by the operator. Failure to respect the instructions associated with this sign could result in damage to things, animals and people.



**Obligation to use particular P.P.D.** This warning is used to draw attention to the obligation to use particular personal protection devices while carrying out the operations. Failure to respect the instructions associated with this signal could result in serious damage or the death of the operator.



**Obligation to use suitable eye protection, hand protection and garments.**



**IMPORTANT- Failure to know and respect the signs and warnings could result in personal injury or damage to the sweeper or equipment.**

### Physical and intellectual requisites of the operator

No special qualification is required to use this sweeper. The operator needs to read this manual only. The operator must be intellectually capable of understanding and correctly applying the instructions and safety regulations contained in this manual and on the sweeper itself in written and symbolic form. He must be capable, including physically, of performing the required operations on the sweeper and of using it and performing maintenance in safety. The sweeper must be used by authorised operators only, instructed in its use and having read the manual.

### Incorrect or improper use

The sweeper is designed for use exclusively for the purposes and in the areas described in the relevant section of the manual. Use other than those described in this manual is considered incorrect or improper and therefore not in conformity with safety regulations.

## Operation and technical specification

### Using the sweeper

This SWEEPER is a professional appliance designed to clean dry industrial floors or dry asphalted surfaces (warehouses, outdoor and multi-storey car parks, laboratories in general, service stations, sports centres, camp sites and holiday villages, hotels, supermarkets, workshops) to remove solid material only, such as dust, soil, paper or similar by means of a brush in the frame of the sweeper and an external side brush which can be activated by the operator as required. The sweeper has a large debris collection bin.

The sweeper consists of the following elements:

- Welded folded steel chassis;
- System of external and internal brushes;
- Bin.

In the manual, the right, left, front and back of the sweeper will be referred to from the point of view of the operator holding the handlebar with controls.

### Conditions of use

The SWEEPER has been designed to perform the functions described in section of this manual only.

### Weight and size

The weights and sizes of the sweeper are given in the following tables.

Weight	
Weight	28
Dimensions	
Max. Le (Maximum length)	870
Max. Wdth. (Maximum width)	960
Max. H (Maximum height)	410

### Work parameters

The work parameters provide the information necessary to choose the most suitable sweeper for the specific needs.

Parameters	
Maximum theoretical productivity (m <sup>2</sup> /h)	1500
Cleaning width (mm)	650
Capacity of debris collection bin (l)	30
Length of centre brush (mm)	390
Diameter of centre brush (mm)	260
Diameter of side brushes (mm)	400
Brush material	PPL

## Safety parameters

### Residual risks

*In normal working conditions* there are no residual risks. There are, however, residual risks always present during normal working conditions **exclusively in danger zones** where access is prevented by means of fixed guards. These guards must under no circumstances be removed while the machine is in operation. Guards on transmission components may be temporarily removed in order to carry out adjustments or routine or extraordinary maintenance (for extraordinary maintenance, always contact a professional service centre). The residual risks arising under these conditions may be eliminated by adopting certain procedures. When using the sweeper, the operator must hold the handlebar in such a way as to have an adequate view of the path of the sweeper in order to avoid impact with obstacles (danger of tipping over) and people (injury to persons). The dust contained in the debris collection bin or captured by the air filter may be damaging to persons affected by chronic respiratory diseases. These persons must use suitable respiratory P.P.D.

### Guards

All dangerous areas are closed with guards and protective devices fixed to the chassis with screws making all hazardous areas inaccessible to the operator.

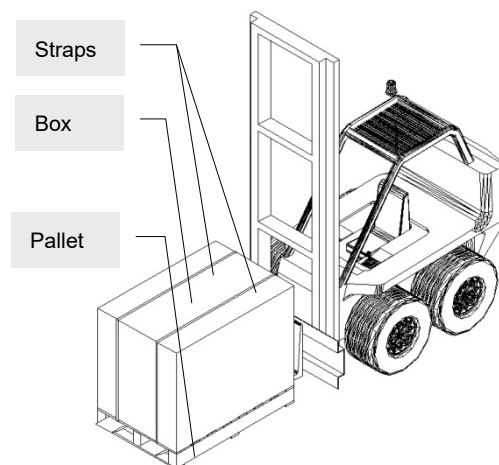
## Transport and installation

### Lifting and handling

**IMPORTANT- Follow the instructions below.**



The sweeper is delivered from the Manufacturer on a pallet and packed in a special cardboard box. Before unpacking, the machine can be transported and handled by means of a lift truck with a capacity of at least 200 kg.



To unpack the sweeper, remove the straps holding the cardboard box to the pallet and remove the box. Once the sweeper has been unpacked, it can be easily lifted by two people. A number of safety instructions relating to transport are given below.

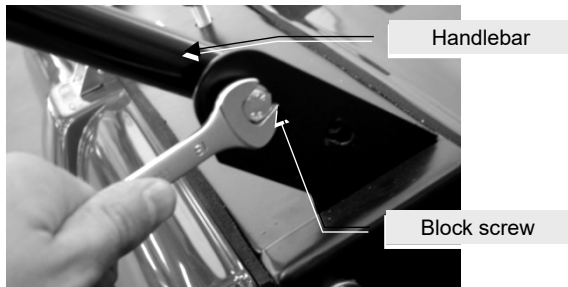
## Installation



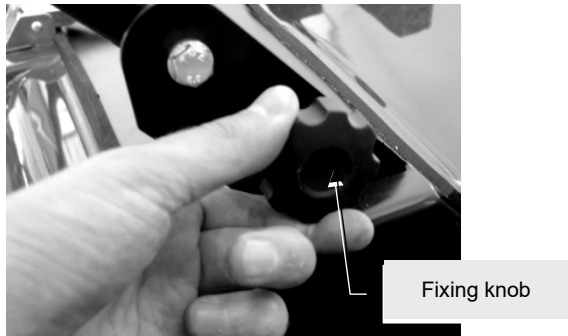
**IMPORTANT- Before proceeding with installation read the following warnings carefully.**

For packaging reasons, the sweeper is delivered with the side brush removed and the handlebar folded down. Before use, mount the side brush and handlebar.

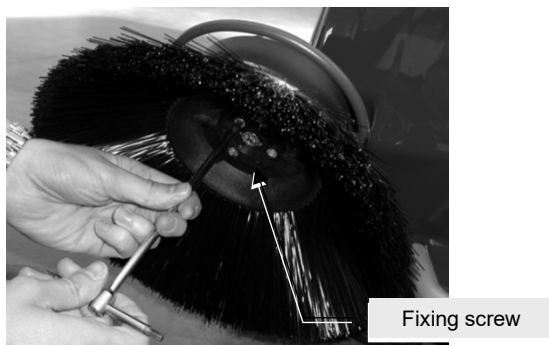
- Straighten the handlebar;
- Tighten the rotation block screw;



- Tighten the fixing knob;



- Tilt the side brush support and fix it by tightening the screws.



## Description

Below is a list of the contents of the package delivered to the customer. If one of the parts listed below is missing, contact the dealer immediately.

- 1 x sweeper;
- 1 x side brush;
- 3 x hex socket screws for fixing the side brush;
- 1 x sweeper use and maintenance manual.

## Operator instructions

### Training

All operators must be suitably trained, including with hands -on experience. This training should emphasise:

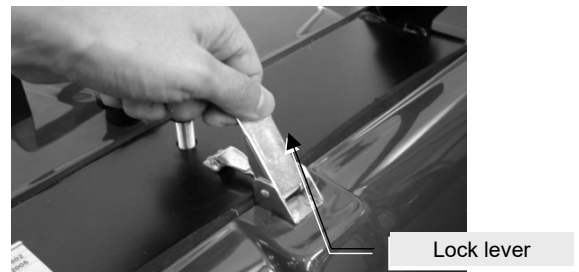
- That the machine may not be used on public roads;
- The need for attention and concentration while working;
- Do not use the sweeper on slopes of greater than 12%.
- Never use the sweeper with defective guards or without the safety devices.

### Controls

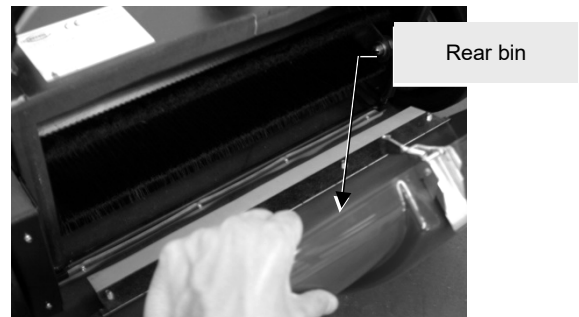
The operator controls the sweeper by means of the handlebar. Moving the sweeper causes rotation of the wheels which transmit the motion by means of a gear, belts and pulleys to turn the centre and side brushes.

### Operations at the end of the session

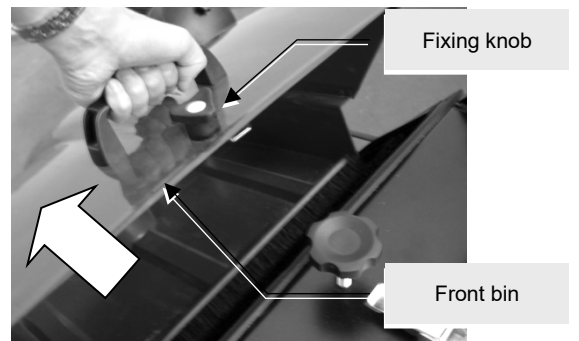
- After sweeping, empty the front and back bins;
- For the rear bin, lower the lever locking the clip fixing the bin to the sweeper;



- Release the clip and remove the bin;



- For the front bin, turn the fixing knob and remove it by the handle.





## Routine maintenance

### Safety rules for routine maintenance

Routine maintenance involves a series of simple operations to be performed at regular intervals and according to the manufacturer's instructions. The Manufacturer has reduced the number and complexity of routine maintenance operations to enable them to be performed by personnel without technical expertise or complex equipment. It involves above all:

- Adjusting and replacing belts;
- Replacing parts subject to wear;
- Cleaning external surfaces and internal parts.



**The dust contained in the debris collection bin or captured by the air filter may be harmful to persons affected by chronic respiratory diseases. They should wear suitable P.P.D.**

### Safety regulations for cleaning the sweeper

**All cleaning operations must be performed with the sweeper stationary.**

When cleaning the sweeper or its components, the following precautions must be observed:

**Do not clean plastic surfaces with alcohol, detergent or solvents. Dispose of cleaning materials in respect of current legislation. Do not dispose of the materials used or cleaning residues in the environment. To clean, use water or compressed air and soft cloths.**

**IMPORTANT- During cleaning, personnel protection devices must be worn**



**IMPORTANT -- Do not use solvents to clean the sweeper as there is a risk of fire due to electrostatic discharges caused by rotation of the brushes.**

### Safety regulations for repairs and extraordinary maintenance

The Manufacturer recommends contacting authorised service centres for all operations over and above normal routine maintenance.



**All operations must be performed by qualified personnel with the necessary technical skills to perform the operations in the maximum safety and in respect of current legislation.**

It should be noted that the warranty offered by the manufacturer is invalidated if:

- The instructions given in the "use and maintenance" manual are not scrupulously respected;
- Repairs or maintenance are performed by unqualified personnel;
- Non-original spare parts are used;
- Unsuitable tools are used.



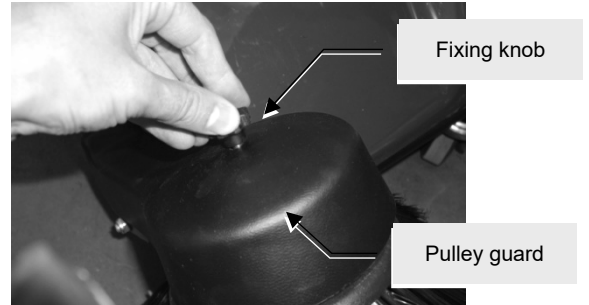
**IMPORTANT - The customer is responsible for verifying that original parts only are used when carrying out repairs. The use of nonoriginal spare parts could jeopardise the safety of the sweeper.**

## Routine maintenance

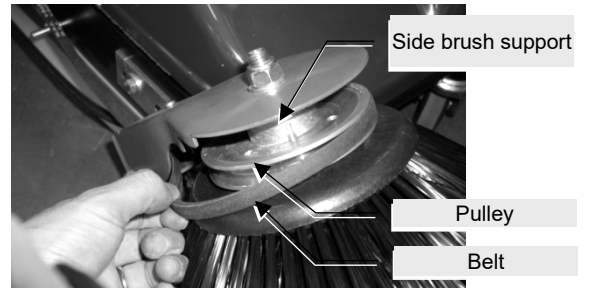
### Replacing the side brush belt

The movement is transmitted to the side brush by means of a belt from a pulley attached to the right wheel of the sweeper. To replace in the event of wear:

- Remove the pulley guard by unscrewing the fixing knob.

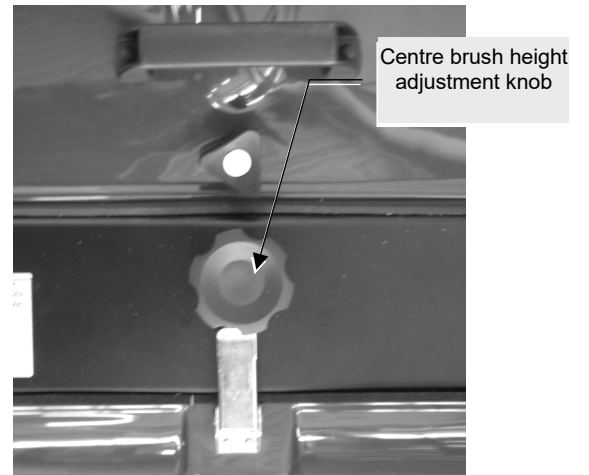


- Tilt the side brush support and remove the belt from the two pulleys.



### Adjusting the height of the centre brush

To adjust the height of the centre brush, use the knob on the top of the sweeper.



### Replacing the side brush

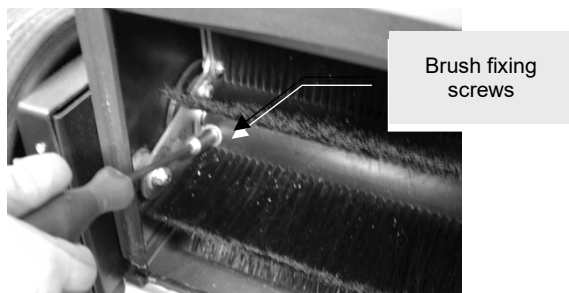
When the side brush is worn, it can be replaced following the procedure in paragraph "Installation" describing mounting of the side brush.

### Replacing the centre brush

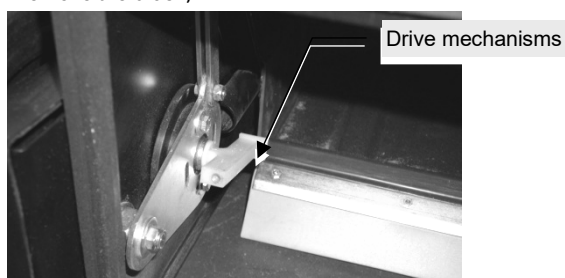
To replace the centre brush, follow this procedure:

- Remove the rear debris collection bin;
- Tilt the sweeper;
- Rotate the brush until you can see the two hex head screws fixing it to the drive mechanisms ;

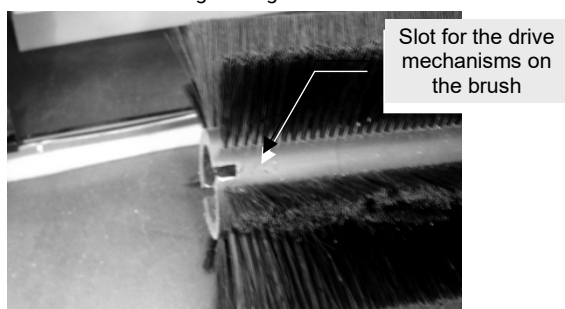
- Unscrew the screws;



- Remove the brush;



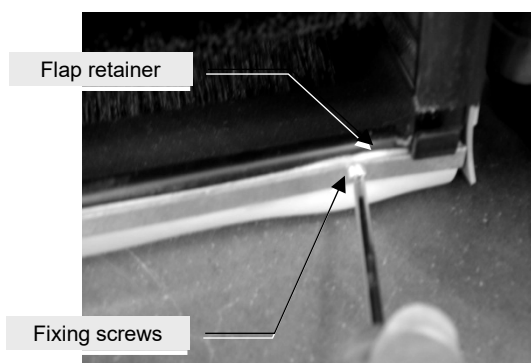
- Insert the new brush, making sure it fits on the drive mechanisms and tightening the lock screws.



## Flaps

After removing the debris collection bin, tilt the sweeper. Replace the flaps:

- Unscrew the screws fixing the flap retainer to the chassis of the sweeper;
- Remove the flap retainer;
- Replace the worn flap with the new one;
- Replace the flap retainer and fasten in place with the screws removed previously.



- Remove the fixing screws;
- Replace the worn flap with the new one;
- Replace the flap retainer and fasten with the screws;
- Replace the flap raising cable.

## Recommended spare parts

To guarantee efficient maintenance, the Manufacturer recommends that only the original spare parts listed in the annexed spare parts booklet should be used.


When ordering spare parts, specify the model of the sweeper, registration number, reference number of the component in the spare parts book and quantity.

## Storing the sweeper

If the sweeper is not used for a number of days, protect exposed parts (not protected by paint, surface treatment or plastic) with protective rust prevention oils. If the sweeper is not to be used for particularly long periods, you should also clean it thoroughly. After performing these operations, seal the sweeper inside an opaque black multilayer nylon bag together with a suitable drying agent (silica gel).

## Disposal

At the end of its useful life, you have to scrap and dispose of this product by taking it to a local differentiated waste collection center in conformity to law. Before scrapping, check the serial number

plate on the machine: if it has the symbol , it means that disposal is regulated by EU Directive 2003/96 (Waste Electrical and Electronic Equipment, WEEE). The user must inquire about the local electrical and electronic waste collection system and follow its instructions. Illegal disposal of this product with normal domestic waste can seriously harm the environment and health and is subject to administrative penalties.

## Table of regular maintenance

OPERATION	ON DELIVERY	AFTER USE	EVERY 10 HOURS	EVERY 50 HOURS	EVERY 100 HOURS	OTHER
Replace the belts					X	
Check belt tension				X		
Check the tightness of screws and nuts				X		
Check the condition of the brushes				X		
Check the condition of the flaps				X		

## Troubleshooting

The table below gives the most common problems which may arise during normal use of the SWEEPER. These problems are easy to resolve with operations classified as routine maintenance. If the problem is not present in the following table or cannot be eliminated following the instructions here, contact an authorised service centre.

<b>PROBLEM</b>	<b>CAUSE</b>	<b>SOLUTION</b>
The centre brush does not turn	Broken belt	Replace the belt
The sweeper does not clean well	Brushes worn	Check the state of wear of the brushes and if necessary replace
	Type of brushes not suitable for cleaning the type of floor and dirt present	Change type of brush with respect to those mounted as standard (OPTIONAL)
The side brush does not turn	Broken belt	Replace the belt
Dust comes out of the fan	Gas ket wear	Replace the gaskets
Brushes wear out too fast	Brush pressure too high	Adjust brushes
Dust is discharged during work	Flap rubber worn	Replace flaps



## NOTES

[illegible]



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