



Safety Instructions

Familiarize yourself fully with this product before use!

In the case that transport damages are detected when unpacking the unit, please inform your retailer and/or the shipping company.

Please read the operating instructions carefully before attempting to use this unit and heed the given instructions.

Use

The sweeping machine is only to be used when it is in good repair.

The machine is not suited for the sweeping of liquids. Please do not sweep any burning or glowing matters such as cigarettes, matches etc. When removing glass, metal or other materials from the waste container, please use robust gloves. This unit is not suited for the sweeping of materials that are dangerous to your health. Please heed the rules for accident prevention as well as the safety-relevant instructions in the operating manual! Operating the unit in rooms containing explosives is not allowed.

Operation

The operator may only use the unit in accordance with its intended use. During operation, the local conditions must be considered and attention must be paid to third persons, especially to children.

Maintenance

Repairs are only to be carried out by authorized service stations or by specialists who are familiar with all relevant safety regulations.

Accessory and spare parts

Only accessory and spare parts approved by the manufacturer may be used. The use of the original accessory and spare parts ensures a safe and trouble-free operation of the unit.

Environmental protection

All replacement parts and batteries are to be disposed of in accordance with the relevant environmental protection regulations.

Dear Customers,

Thank you for choosing one of our high-quality Bissell products.

The Bissell 677 is an especially efficient hand sweeping machine with a permanent brush drive that is simple to operate and can be used for all even and hard surfaces. The unique Turbo sweeping system with circular brushes and sweeping rolls guarantees double cleanliness. The circular brushes collect all kinds of dirt from the road, from fine dust to empty cans, wet leaves and even heavy garbage. The sweeping rolls collect fine dust, and, in addition, ensure the optimal overhead filling of the dirt container. In order to guarantee a long service life of your sweeping machine, the following operating instructions must be observed.

First start-up

Assembly of the sliding handle

Fold the the handle fitting (item 7.13) forward to an angle of 45° and pull it. Push the catch spring of the sliding handle (item.7.12) and connect the sliding handle (item.7.11) with the handle fittings (item 7.13) by engaging the catch spring. To fit handle to the sweeper frame (Pos 1.12) fold the handle forward to an angle of 45° towards the front brushes, the handle holder will snap into position. To fix the handle move the handle back to normal sweeping

Connect the battery cable



To avoid self-discharge the battery, the sweeper will be delivered with the positive terminal battery cable. Disconnect the battery before initial use. Without connected battery-cable, the sweeper keeps without electrical function and the battery can not be loaded.

For connecting the battery, open the hood (item 1.13) by pulling forward on the front lower edge of the hood and swinging upward. Open the battery holder. The wiring of the battery is done by attaching the battery cable to the connector tab on the battery. (Red = positive (+), black = negative pole (-) then attach the battery holder by pushing on and snapping. **Do not change the cables on the battery, otherwise the machine may be damaged and the warranty on the components expire.**

Charging the battery

Charge the battery prior to the first start-up. Please see the chapter "charging the battery".

Operation

Height adjustment of the brooms

The Bissell 677 sweeping machine is factory adjusted for even surfaces. The brush pressure can be freely adjusted with the adjusting button (item 1.11).

Step 1-2: new brushes for all even surfaces

Step 3-4: new brushes for wet leaves, sand, uneven floors (e.g. washed-out concrete)

Step 5-8: older brushes for readjustment of the worn brush parts.



Please ensure that the brushes rest only lightly on the floor. A lower brush position does not bring about better cleaning results and instead may increase the wear on the brushes.

Operation

Turn on the switch (item 10.01) and push the sweeping machine in front of you at normal walking speed (the brushes will point in the opposite direction) and **lift the sliding handle slightly**. Bumps with a height of 2-3 cm can be easily driven over by lightly pushing down on the sliding handle. After termination of the brushing process, turn off the switch (item 10.01) of the machine and recharge the battery.



The machine must be turned off as soon as the brushes start to spin slowly or the LED turn red –in order to prevent a total discharge and damage of the battery.
If the sweeper will be turned off by the electronics within a short time, the load at the motors is too high. Then check the brushes plates for free movement and no blockings, as jammed stones, coiled threads and so on. Remove all blockings before operation the sweeper.

LED display

In battery mode the battery charge status will be displayed at the LEDs next to the main switch of the sweeper.

Green LED: Normal sweeping mode, the battery charge is sufficient.

Red LED lights up: The battery charge is low. Stop and charge the battery with the charger.

Red and green LED blinking: The sweeper was due to low battery charge and switched off by the built-in electronics. Switch sweeper off and recharge the battery. After charging the normal operation is possible.

The machine can also be operated without its motor. In this case, simply push the machine without turning on the motor.

Overload protection

The motor is provided with an overload protection in order to prevent damage to the machine. In the case of an overload (jammed brooms) the machine turns off automatically. If this should occur, the first step is to remove the blockage in the brooms (e.g. due to spooled cords etc.). Thereafter, operation can be continued by restarting the motor.

Emptying the waste container

The waste container must be emptied at regular intervals in order to ensure efficient sweeping results. To open the waste container, pull the container handle (item 6.05) upward. After removing and emptying the waste container, replace it and lock it in by pushing down on the container handle.

Storage

The Bissell 677 sweeping machine can be best stored vertically. In this position, the brushes are protected against damage and the wear will be reduced.

Charging the battery

The battery will be charged with the serial socket battery charger. Attention: charging is only to be carried out in a dry, well ventilated room with turned off machine. In order to charge the machine, insert the cable into the charging socket of the sweeping machine (item 10.02) and the line cord into a 110 - 230V outlet. After termination of the charging process, the power supply unit must be separated from the mains and the machine. The complete charging process takes approx. 7-8 hours. Always store the machine with charged battery in order to prevent a total discharge if the machine is stored without use for a long time. In the case of a long storage time, please recharge the battery every 2 month for 10h.



Attention: If you do want to store the sweeper for longer than 2 months please disconnect the battery to avoid discharging of the battery

Safety instructions for handling the battery



Only use the provided battery charger.
Prevent the occurrence of sparks when handling cables and electrical units.
Never short-circuit the battery poles.
Always keep batteries clean and dry.
Do not smoke and keep away unshielded flames and electrical sparks.
Do not eat and drink in the area of the battery charging station.
Do not open the battery by force and do not expose it to the sun
Maximum temperatures: Application: -15° C ~ 50° C
Charge: 0° C ~ 40° C
Storage: -15° C ~ 40° C

Maintenance

You have chosen a maintenance-friendly product.

The customer may only carry out maintenance work described in the following chapter. All other maintenance work must be done by an authorized dealer or by the manufacturer.

For all maintenance work, the sweeping machine must be turned off and be disconnected from the mains supply. Maintenance work with running motor is not allowed.

Brushes

The circular brushes, the sweeping roller and the drive system can be cleaned with water.

The brushes are made of polyamide. In the case that the brushes become twisted by inexpert storage, they can be readjusted by means of a hot air blower (such as a hair-dryer). Please do not use any unshielded flames or burners.

Cleaning of the unit

Please clean/wash the dust filters from time to time

WARNING: Built-up dirt can impede the manoeuvrability of the sweeping machine and adversely effect its operation. Maintaining your sweeping machine will ensure its operation and long life.



Please do not use any high-pressure cleaning systems.
Clean the machine dry or with a damp cloth. Remove grime, threads, hair etc. from the brushes, from the axles and behind the brush holder (Pos. 8.15). **Humidity may damage the electrical devices and may cause short circuits.**

Maintenance of the gears



In order to ensure an easy and wear-resistant operation, the brush gears (items 4.03 + 3.02) should be sprayed with the original Bissell lubricant spray from time to time. Never use any other oils or grease.

Exchanging brushes

The brushes are made of high-quality material. After using them many years, it may be necessary to replace them. We recommend replacing the complete brush set at the same time.

For the replacement of the circular brushes, set the height adjustment (item 1.11) to step 8 and place the machine in a vertical position. Make sure that the wheels are in a vertical position (wheel is at the inner part of the brush). Next, pull the tilted wheel (item 4L/R) strongly and remove it from the machine together with

the shaft. Strongly pull off the circular brushes (item 2L/R) together with the tooth sleeves and the clutch (item 3L/R) from the journal.

Note: On the inside of the frame (item 1.12) and on the inclined wheels and on the clutches (item 3.10) you will find markings for L and R. The circular brushes are marked on the bottom with L/// or R\\ depending on the direction of the bristles. During the assembly, make sure that the coordination is correct. The assembly is carried out in reverse order. Fit the circular brushes into the journal, insert the clutch (item 3.10) and the tooth sleeves and engage the tilted wheels (please make sure that the wheels are in the correct position) – and you are ready to go.

For the replacement of the **sweeping roll**, press on the stop bracket of the roll seating (item 8.15). During the assembly, ensure that the bristles are not pinched laterally and that the snap bracket is returned to its correct starting position.

What should be done when the unit does not run smoothly?

1. Check the sweeping pressure adjustment
2. Clean the unit and remove spooled cords etc.
3. Spray the gear parts with the special Bissell lubricant spray.
4. Make sure that the direction of rotation of the circular brushes (after repair) is correct

Disassembly of the sliding handle

To disassemble handle fold the handle forward to an angle of 45° towards the front brushes, and pull out the handle holder (Pos. 7.13) from the frame (Pos 1.12).

Guarantee

4 year warranty on the circular brooms

2 year warranty on all other parts in accordance with the EU regulations
(wear excluded)

Maintenance

Prior to each use

- Check the machine for damage
- Check the circular brushes and the brush rolls for jammed parts and deadlocked dirt particles that could hinder the rotation of the brushes
- ensure that the sweeping pressure adjustment is correct

After each use

- charge the battery
- empty the waste container

Additionally, every 10 operating hours

- clean gear (item 3 + 4) and spray it with Bissell lubricant spray

Additionally, every 50 operating hours

- check brushes for wear
- check gear for wear

Technical data

Bissell 677

Sweeping width	77 cm
Sweeping capacity	3800 m ² /hour
Container volume	50 l
Weight	20 kg

Battery

Voltage	12 V
Capacity	12 Ah
Weight	3,8 kg

Battery charger

Input voltage	110 - 230VAC /50 HZ
Output voltage	12 V
Charging limit voltage	13,8 V
Charging current	3500 mA
Operating temperature	0° C + 25° C
Storage temperature	-25° C 70° C
Weight	540 g