

ECKMAN

Practical Solutions for the Garden

ELECTRIC VACUUM/BLOWER/MULCHER MODEL EKELV2 (MK11) INSTRUCTION MANUAL



CE

PLEASE READ & SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

Any questions or problems? Call the Eckman helpline on : 0844 441 3011 or go to www.eckman.co.uk










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This appliance is designed solely to blow and vacuum dead leaves in private gardens.

Any other usage that is expressly not permitted in this manual may damage the appliance and constitute a serious hazard for the user.

Meaning of the Warning Symbols

	<p>WARNING: Read the instruction manual carefully Important safety instructions to follow</p>
	<p>WARNING: Always wear:</p> <ul style="list-style-type: none"> - Safety shoes - Ear defenders - Eye protection - Safety gloves
	<p>Switch off the appliance and remove the plug from the mains socket before carrying out any maintenance</p>
	<p>Disconnect the plug from the mains socket if the cable is tangled or damaged</p>
	<p>Do not use in rain Do not expose to moisture</p>
	<p>Keep people present at a distance Keep all third parties out of the way</p>
	<p>Do not place hands in the rotating appliance when connected to the mains</p>
	<p>Double insulation</p>
	<p>Selective collection of household electric and electronic waste</p>

General Safety Warnings



WARNING

Read all the safety warnings and all instructions in order to familiarise yourself with the controls and how to handle the appliance correctly.

Failure to follow warnings and instructions can lead to electric shock, fire and/or serious injury.

Keep all warnings and instructions for future reference.

Electrical Safety

- a) It is recommended that you plug the appliance into a socket equipped with a residual current device (RCD), the tripping current of which is lower or equal to 30 mA.
- b) Do not expose tools to rain or damp conditions.
- c) Ensure that you use extension cords (multi-plug adapter or extension) compatible with outdoor use and that are resistant to bad weather conditions (In accordance with CEI 60320-2-3)
- d) Do not mistreat the cable. Never use the power cable to carry, pull or unplug the tool. Keep the cable away from heat, lubricants, sharp edges or moving parts.
- e) Do not carry / transport the appliance using the cable.
- f) Always direct the cable towards the back, away from the operating appliance
- g) Before using, check the power cable and extension lead for signs of damage or wear. Do not use the appliance if it is damaged.
- h) If the cable becomes damaged during use, disconnect it immediately from the power supply.
NOT TO TOUCH THE CABLE BEFORE HAVING DISCONNECTED IT FROM THE POWER SUPPLY.
- i) If the power cable is damaged, it must be replaced by a special type of cable or unit, available **from the manufacturer or its after-sales service.**

Personal Safety



INSTRUCTIONS TO FOLLOW BEFORE USE

- a) This appliance is not designed for use by persons (including children) with reduced physical, mental or sensory abilities, or people with no prior experience or knowledge of this appliance, unless they have been given prior supervision and instruction concerning this appliance by a person responsible for their safety.

- b) NEVER allow children to use the appliance. Local laws and regulations may set a minimum age limit for users.
- c) It is advisable that you supervise children to ensure they do not play with the appliance.
- d) NEVER allow people unfamiliar with these instructions to use the appliance.
- e) Do not handle if you are tired or are under the influence of drugs, alcohol or medication. Take regular breaks.
- f) Always ensure that you wear the following personal protection equipment:
 - Eye protection.
 - Ear defenders
 - Protective face mask to avoid irritations due to dust
 - Safety shoes equipped with non-slip soles
 - Long, robust trousers
- j) Dress in suitable clothing; do not wear baggy clothing or jewellery that may get caught in the air intake.
- k) Keep long hair away from air intakes. Tie hair up or cover it.
- l) Never use the appliance with defective protectors or without safety devices, for example, the debris collector must be in place.
- m) Always check the appliance before using in order to avoid any risks, and do not use the appliance if it is not assembled completely.



INSTRUCTIONS TO FOLLOW WHEN USING

- a) NEVER operate the appliance when third parties, particularly children or animals, are in close proximity. Switch off the appliance when people approach the work area.
- b) Be aware of open doors and windows when using and ensure to blow debris away from them.

The user is responsible for injuries or harm caused to other people or their possessions.

- a) Only operate the appliance during daylight or with the aid of good artificial light.
- b) It is recommended that you use rakes and brooms to loosen debris before blowing/vacuuming.
- c) Do not insert objects or your hands into the rotating parts of the appliance that produce the suction.
- d) Keep all cooling air-vents clear of any debris.
- e) Never blow debris or point the appliance in the direction of any people present.
- f) Do not vacuum damp or wet materials, or liquids.

- g) Disconnect the appliance from the power supply when checking the appliance, in the event of blockages or if it vibrates abnormally.
- h) Do not rush. Remain in a stable and balanced position at all times.
- i) Always be sure of your steps on slopes. Strap the appliance to yourself using the accessory designed for this purpose.
- j) Walk; never run when holding the appliance.

Recommendations

- k) It is recommended that you slightly dampen dusty surfaces or that you use a mist blower.
- l) It is recommended that you use the intake/outlet tube at its maximum length to be able to reach the ground with the air flow.
- m) It is recommended that you operate the appliance only at reasonable times, not too early in the morning and not too late in the evening, which may disturb neighbours. Keep to the times set by local regulations.



INSTRUCTIONS TO FOLLOW AFTER USE

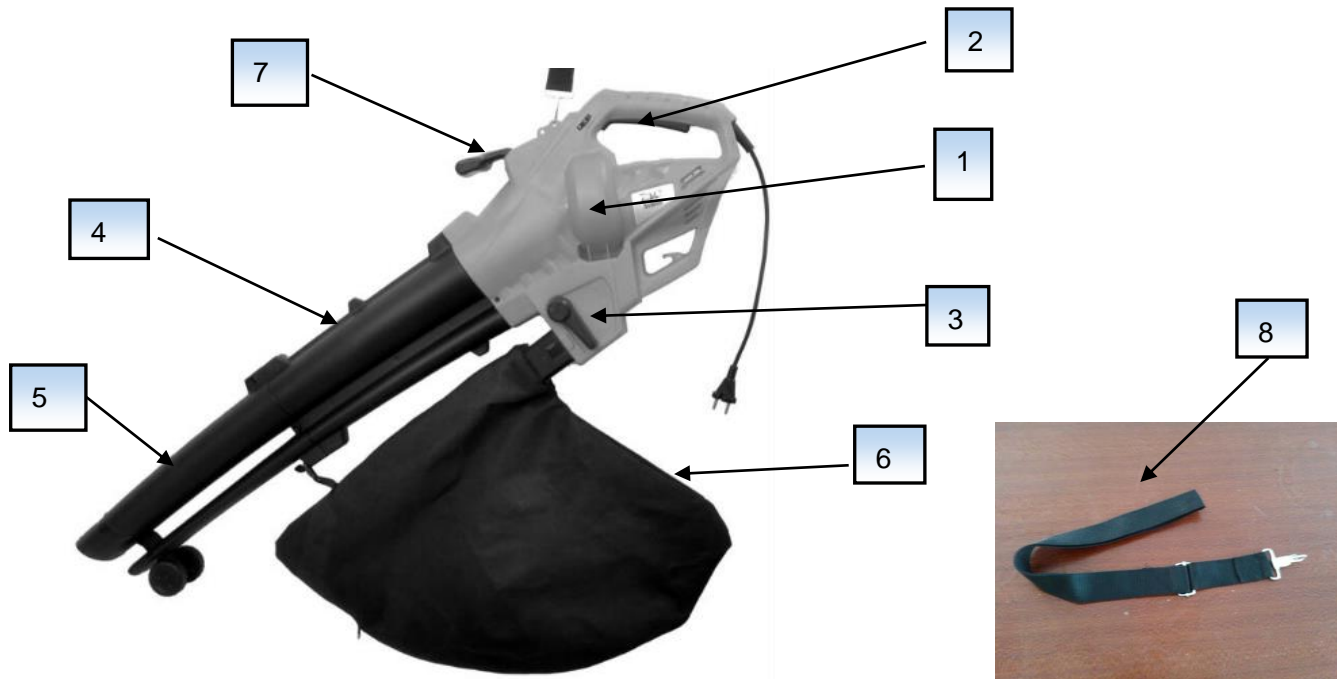
- a) Disconnect the appliance from the power supply after use.
- b) Clean the appliance adequately following the precautions described in chapter 6.

Technical Specifications

TECHNICAL SPECIFICATIONS	
Voltage rating	230-240 V
Type of power supply and Frequency rating	50 Hz
Power rating	3000 W
No load speed	15,000/min
Air volume(vacuum)	13.2m ³ /min
Air Speed(blowing)	270km/h
Electrical protection class:	Class II
Appliance protection against penetration by solids and liquids	IP 20
Collector capacity	35 L
Net/Gross Weight	3.0/3.68 kg(with 10m BS cord)
SPL measurement uncertainty	kPa =3dB
SPL (Sound power level)	102 dB (A);
Vibration level	4.813 m / s ²
Measurement uncertainty	K=1.5m / s ²
Mulching Ratio	10:1

The total noise and vibration levels declared were measured in accordance with a test method from directive 2006 / 42 / EC.

Parts Identification



- | |
|----------------------------------|
| 1. Crankcase |
| 2. On/off switch |
| 3. Vacuum/blower selection lever |
| 4. Median vacuum/blower tube |
| 5. Wheeled vacuum/blower tube |
| 6. Collection bag |
| 7. Handle |
| 8. Shoulder belt |

Assembly

Warning!

The vacuum/blower must not be used or switched on until it has been fully assembled.

Assembly (Photo 1 & Photo 2)

Connect the two sections of tubes together using 1 x 50mm long screw provided and a Philips screwdriver.(see photo 1). Connect the whole vacuum/blower pipe into the outlet using the provided two screws(normal longer screw + one-way screw)by Slotted screwdriver (see photo 2) on both sides. Ensure the whole pipe is fully connected.

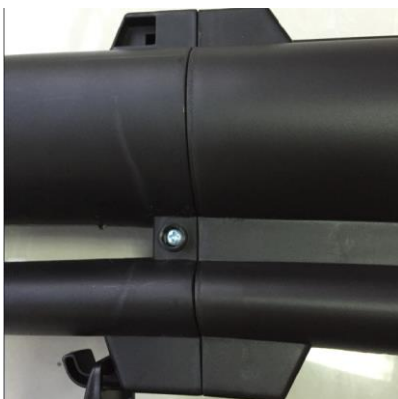


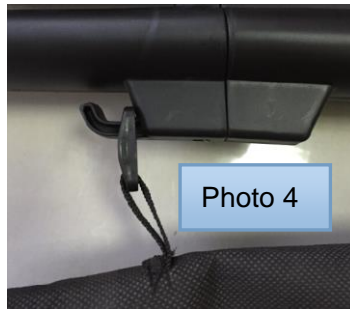
Photo 1



Photo 2

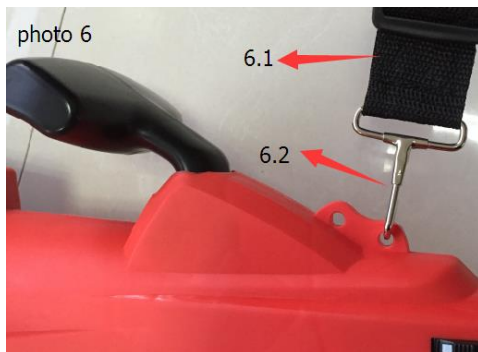
Fitting the collection bag (Photo3 & Photo4 &Photo5)

Fitting the collection by inserting the black connector into the hole on discharge port, the black connector is already fitted to the bag.(See photo 3). Attach the front of the collection bag to the hook of the vacuum/blower pipe using the bag retaining clip.(See photo 4 & 5)



Fit the shoulder strap (Photo 6)

The vacuum/blower is supplied with a shoulder strap (**Photo 6, 6.1**). This is fitted to the hole of the housing of motor as shown (**Photo 6, 6.2**). The shoulder strap is supplied to reduce fatigue and make operating the vacuum/blower more comfortable. It can be fitted in a position that suits the operator.



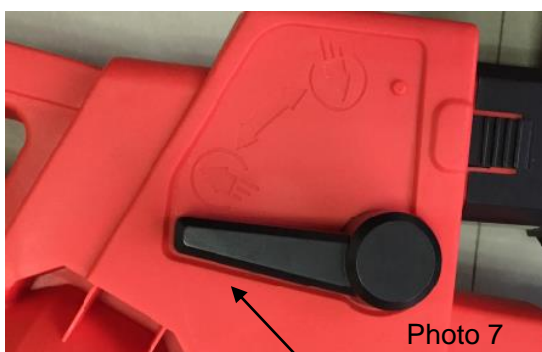
Before starting

Before operating the vacuum/blower, plug it in to the power supply ,and then switch it on. Ensure that the mains voltage is the same as the operating voltage indicated on the rating plate.

Start the vacuum/blower

Before starting the vacuum/blower, ensure that the median vacuum/blower pipe is fitted correctly.

Warning! Before selecting the vacuum or blower function ensure that the function selection lever is in the normal position and is not obstructed by debris from the previous time used. Select one of the two functions using the selection lever (See Photo 7), then switch on the machine by squeezing the trigger (See photo 8).



Switching the vacuum/blower off
function
selection lever



Trigger

To switch the vacuum/blower off, simply release the trigger.

Operating

Using the vacuum/blower

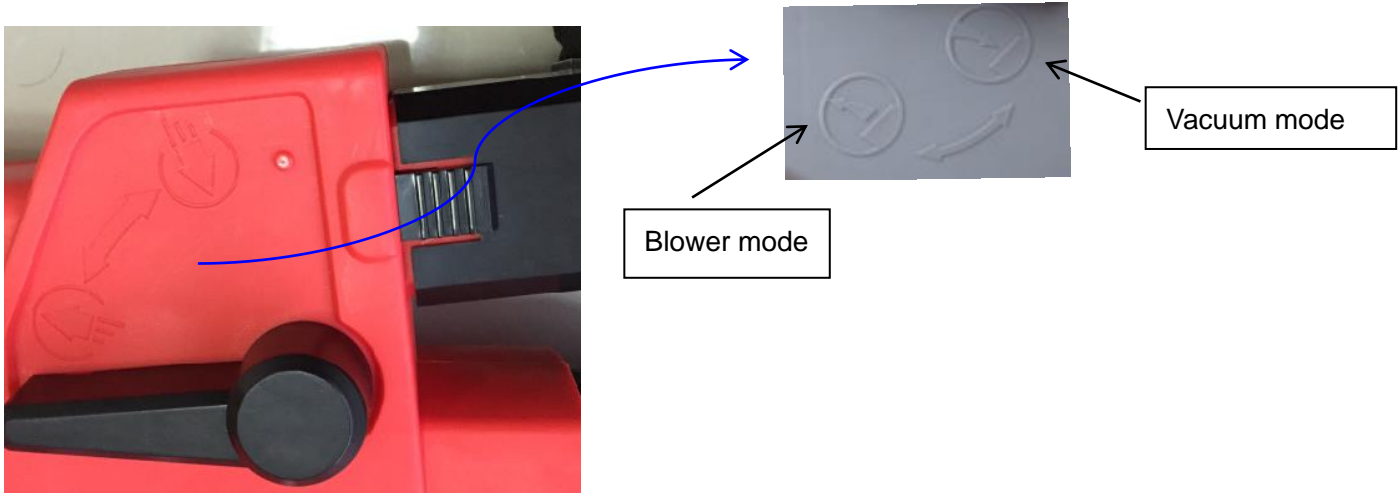
Do not try to vacuum damp debris; leave fallen leaves and other debris to dry before using the vacuum/blower. The vacuum/blower can be used to blow debris off of patios, paths, lawns, shrubs, edges and alleys. It can also vacuum leaves, paper, small twigs and wood chips. When the vacuum/blower is used in vacuum mode, the debris is sucked in through the tube suction nozzle. **It then passes through the mulching turbine and is then ejected into the collection bag.** This can help to provide excellent garden compost..

Warning! If hard foreign objects such as stones, metal, glass, etc. get sucked in, these will damage the suction turbine and invalidate your guarantee.

Important

Do not use the vacuum/blower to suck up water or very damp debris.
Never use the vacuum/blower without the collection bag.

Operating the vacuum/blower



Blower mode

Before beginning, remove all debris and objects likely to be thrown or get stuck or tangled in the vacuum/blower. Select the blower function using the selection lever (see photo 7), and then switch it on. Push it forward via wheels on the end of tube towards the debris you wish to remove.

Blow the debris into piles, and then use the vacuum function to break it up.

Vacuum mode

Before beginning, remove all debris and objects likely to be thrown or get stuck or tangled in the vacuum/blower. Select the vacuum function using the selection lever (see photo 7), and then switch it on. Push it forward via wheels on the end of pipe, towards the debris you wish to vacuum. Do not push the end of the tube into the debris, as this risks blocking the suction tube and reducing the effectiveness of the appliance.

Vegetable materials, such as the leaves, contain a large amount of water. This is why they can stick to the inside of the suction tube. To limit this problem, leave vegetal debris to dry for a few days before vacuuming.

Maintenance, Storage & Servicing



WARNING

Disconnect the machine from the power supply before cleaning or carrying out any routine maintenance.

Only store the machine in a dry place, protected from light and ice.

Keep the machine out of reach of children

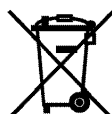
- a) Keep all nuts, bolts and screws fitted to the machine to ensure that it remains in good working condition.
- b) Never leave debris in the vacuum/blower or in the collection bag. This can be dangerous when the vacuum /blower is next operated. Remove and empty the collection bag. Check that the function selection lever is normal and not obstructed by debris. Brush the area surrounding the turbine and the inside of the vacuum/blower pipe to remove debris. Do not use any type of cleaning solvent on the plastic parts of the machine.
- c) Replace worn or damaged parts using replacement parts and original accessories. Any damaged or worn parts must be replaced in order to keep the vacuum/blower in good working condition.

Have repairs carried out by a qualified person using only identical replacement parts.

Protecting the environment



WARNING



Do not dispose of electric and electronic equipment waste among unsorted municipal waste, but use the selective collection points available.

For more of information on how to recycle this appliance, contact your local authority or waste collection site before disposing of it.

GUARANTEE

This product is guaranteed for a period of 12 months from date of purchase. Any modification or misuse of this machine will invalidate your guarantee. Your statutory rights remain unaffected.

EC DECLARATION OF CONFORMITY

The undersigned, as authorised by: Ningbo DoWell Tools Co., Ltd

Declares that the following equipment manufactured by Ningbo DoWell Tools Co., Ltd has been tested and conforms to the Directive: -

2006/42/EC, 2006/95/EC, 2004/108/EC

and are manufactured in accordance with the following standards or standardized documents:

2006/42/EC-Annex I, EN 60335-1:2002+A1+A2+A11+A12+A13+A14+A15, prEN 60335-2-100

EN 55014-1:2006+A1, EN 55014-2:1997+A1+A2, EN 61000-3-2:2006+A1+A2, EN 61000-3-3:2008

of the European Parliament and of the council on the approximation of the laws of the Member States relating to the noise emission in the environment by equipment for use outdoors.

Equipment Category - (As defined in the Directive)

Product Name: Leaf blower/vacuum

Model: DT2200 (ECKMAN MODEL NO.: EKELV2 MK11)

Description: 230-240V, 50HZ, 3000W, Class II

The technical documentation is kept by: Ningbo DoWell Tools Co., Ltd

Add: 9# Yunhuan Road, Industrial Park, Simen Town, Yuyao city, Zhejiang Province, China

The conformity assessment procedure followed was in according with Council Directive 2006/42/EC relating to machinery.

Guaranteed Sound Power Level: -----102dB

A copy of this certificate has been submitted to the European Commission and to EU Member State: the United Kingdom

Place of Declaration: Ningbo, Zhejiang 315145, P.R. China

Date: December, 2015

Signed by:

Position in Company: GENERAL MANAGER

(Manufacturing Factory Stamp)

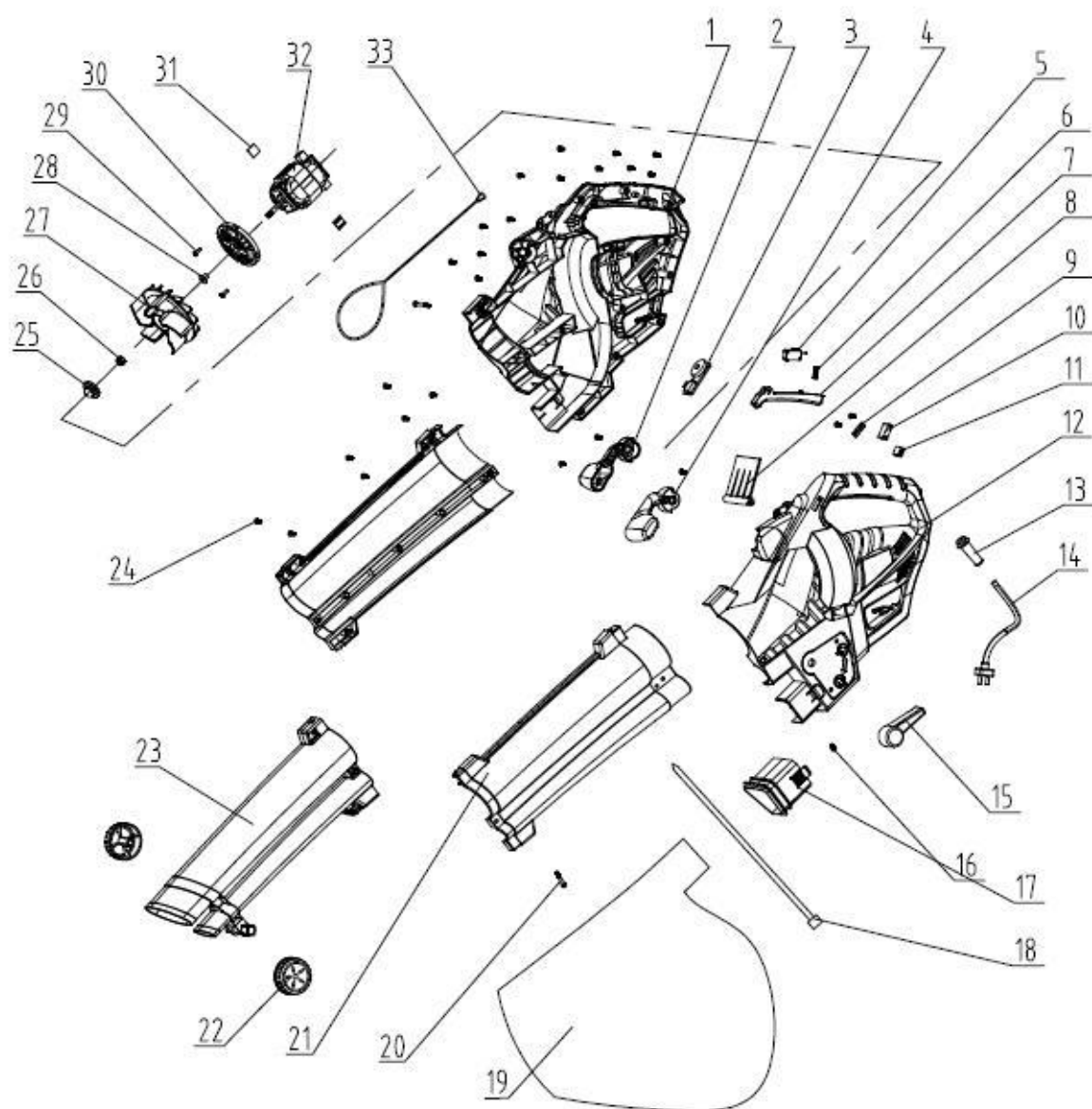


IMPORTED BY ECKMAN CO.,LTD

ADD: 29 WELBECK STREET,LONDON W1G 8DA, ENGLAND



Exploded View & Parts List



Item No.	Description	QTY.
1	Right housing	1
2	Right auxiliary handle	1
3	Speed control knob	1
4	Left auxiliary handle	1
5	Switch	1
6	Spring	1
7	Switch trigger	1
8	Blower and suck change board	1
9	Cable clamp	1
10	Capacitor	1
11	Wiring terminal	1
12	Left housing	1
13	Cable retainer	1
14	Cable	1
15	Blower and suck change trigger	1
16	Special screw	1
17	Bracket	1
18	Strip	1
19	Collection bag	1
20	ST4 X 50 screw	2
21	Left up tube	1
22	Wheel	2
23	Down tube	1
24	ST4 X 14 Screw	25
25	Stopple	1
26	M8 Lock nut	1
27	Impeller	1
28	Axle sleeve	1
29	M4X10 Screw	2
30	Motor bracket	1
31	Shock pad	2
32	Motor assembly	1
33	Shoulder belt	1