

# **ECKMAN**

Practical Solutions for the Garden

Hand Push Lawn Mower, Lawn Scarifier &  
Lawn Aerator

(With Optional Roller) Model EKETC6

## **Instruction Manual**



**PLEASE READ AND SAVE THESE INSTRUCTIONS FOR FURTHER REFERENCE!**

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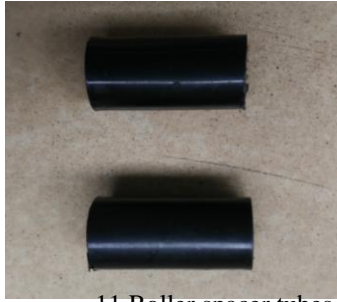
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## I. Parts List

PART NO.	NAME	QUANTITY
		(PCS)
1	Mower cassette	1
2	Aerator cassette	1
3	Scarifier cassette	1
4	Foam padded top handle	1
5	Bar A	2
6	Lower handle	1
7	Bolt 35mm	6
8	Handle connection knob	6
9	Collection bag	1
10	Bag attachment strap	1
11	Roller spacer tubes	2
12	Roller	1
13	Bolt 25mm	2
14	Bolt 15mm	2

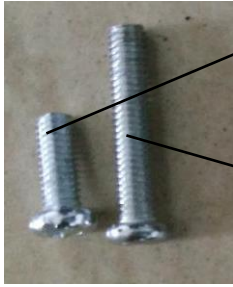




11. Roller spacer tubes



12. Roller



14

13

**BEFORE ASSEMBLY Firstly unpack and check all parts have been supplied. If you think any parts are missing, first check the packaging again before calling the Eckman helpline on 0844 441 3011**

## II. Specifications

Product Name: GRASSHOPPER(3-in-1 Mower/Aerator / Scarifier , With Optional

Roller) Model: EKETC6

Carton Size: 590x480x430mm

Product Size: 570x670x1190 mm

Net weight (with all accessory cassettes): 16.6 kgs

Gross weight: 19.7 kgs

The capacity of collection bag(fabric material) : 30.4 Litres

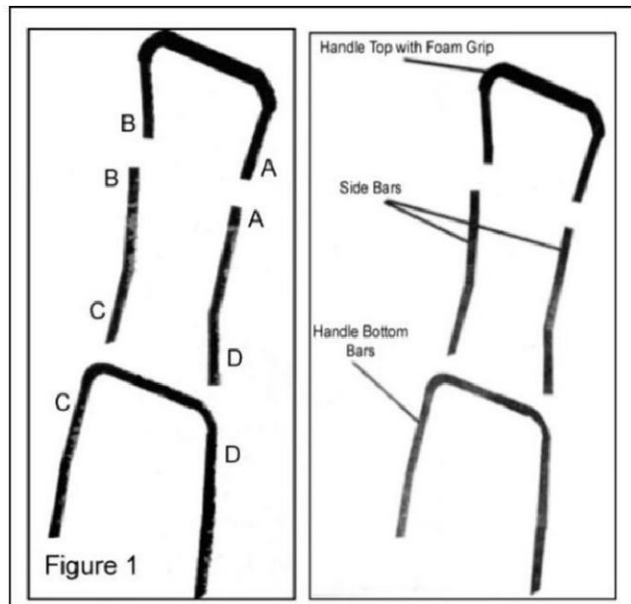
Working width of accessories 344mm (13 ½")

Cutting height adjustment range:14-36mm

## III. Assembly Instructions

**Step 1** Attach the side bars to the handle bottom bars using the knobs, bolts and washers supplied as illustrated in Figure 1..

**Step 2** Attach the handle top with Foam Grip to the Side bars using the knobs, bolts and washers as illustrated in Figure 1..

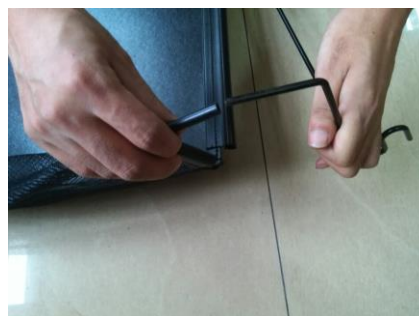


**Step 3** Attach handle bottom bars to mower by locating the holes at the end of each bottom bar over the lugs on the mower body. The bottom bars are sprung so this works best if you first fit one side then push the opposite bottom bar inwards and into place.



Bottom Handle Locating Lugs

**Step 4** Bag Assembly (The bag and frame are supplied pre-assembled per illustrations below.)



**Step 5** To attach the **grass** catcher, attach both sides of the support to the metal bar that's located at the bottom of the mower by the height adjustment levers (see picture below). Clip the strap to the hook at the rear of the catcher, loop the strap over the bottom bar of the handle and push through.. Adjust catcher height as required.



Fully Assembled

## How to assemble roller



**Step 1** Take off the two rear wheels's circlips(see photo as below) using supplied circlip plier.





**Step 2 Remove the wheels.**

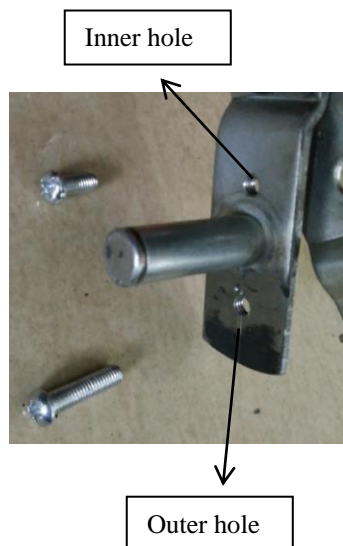


**Step 3 Attach roller.**

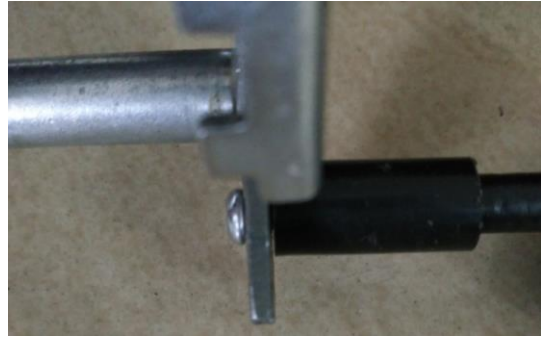
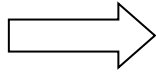
- a. attach **roller spacer tubes** to the both sides of roller.



- b. line up the two holes located on metal bar, long bolt for outer hole, short bolt for inner hole.



- c. Fit short bolt to inner hole fully, As this is used for fixing the roller adjustment lever for roller's four adjustment levels. **Then locate the long bolt just a bit through the outer hole and attach the roller with roller spacer tubes already fitted to the long bolt. Fully tighten the long bolt.**



d. The roller assembled is completed and ready for operation now .

## IV. Safety Guidelines

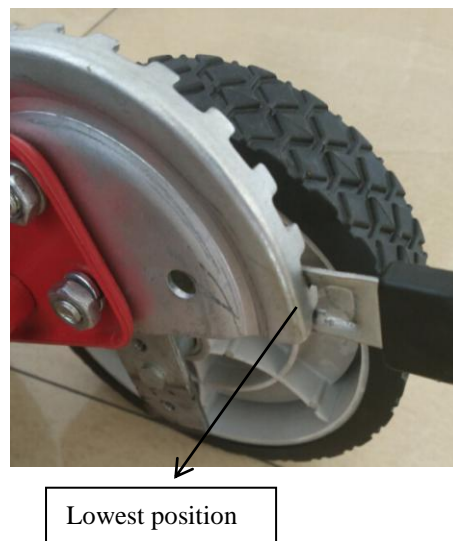
- Never allow onlookers to place hands, fingers or feet inside any of the accessories (mower/scarifier/aerator) whilst you are working.
- Take extra care and wear non-slip shoes if using this machine when the grass is wet.
- Do not use the machine whilst barefoot or if wearing sandals.
- **Walk** slowly, never run.
- Never intentionally strike or ram trees, fences etc. This can cause injuries and severely damage the machine. Your guarantee will be invalidated.
- Make sure that the equipment is in a safe operating condition before starting work..
  - Do not wear loose-fitting clothes when operating this equipment.
  - Only work in good lighting conditions.
  - Make sure you wear good protective gloves when fitting any of the attachments.
  - Do not use this equipment whilst under the influence of alcohol or medication that could make you drowsy.



## V. Height Adjustments

### 1) Wheels height adjustments

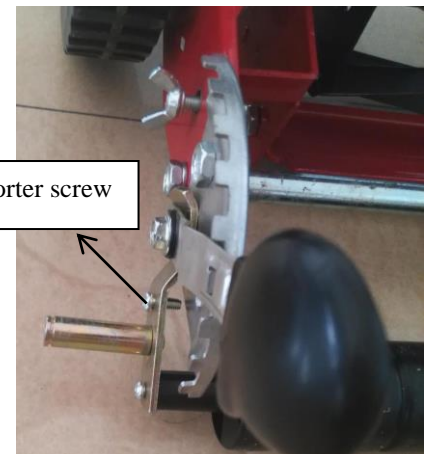
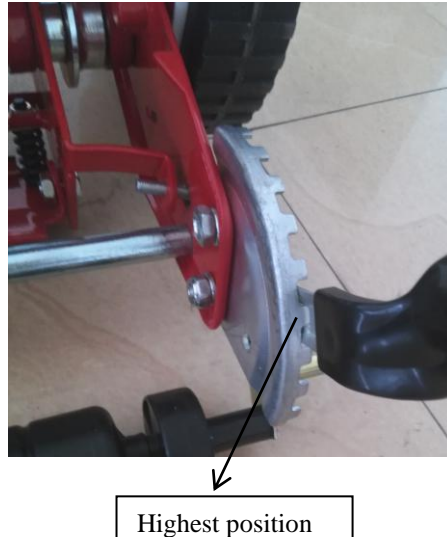
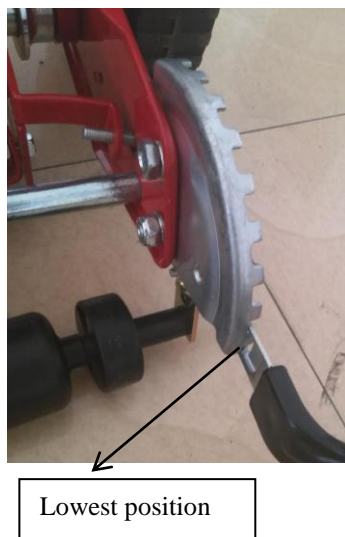
The height of the machine above the ground can be adjusted by moving the height adjustment levers to the required position. To **set** the lowest position, one at a time pull the adjustment levers located next to the smaller wheels and move them to their highest position. To **set** the highest cutting position, move the adjustment levers one at a time to their lowest position .



NOTE: The two height adjustment levers must be set to the same height positions.

### 2) Roller height adjustments

The Roller height can be adjusted by moving the height adjustment levers to the required position. This is same as above wheels height adjustments. The only difference is roller height only has four height grades, The function of the shorter screw is to prevent the user from setting the adjustment lever on the fifth height grade or above. (see photos as below)



## VI. Mower Blade Calibration Adjustments

The blades on the push mower are all calibrated prior to leaving the factory and generally do not require adjustment. However adjustments may be required only if you notice a rough, uneven cut; the mower is **difficult** to push, or the mower simply does not cut the grass. Please note before proceeding, adjusting the blades is a very sensitive procedure. A turn(**adjustment**) of 1/16 is considered a major adjustment! **Carefully follow the procedures below.** Proper calibration is achieved when the cutting blades are adjusted so that the rotating cutting reel ever so slightly comes in **even contact along the entire length of the cutting bar** **,creating a shearing or scissor-like effect.**



**WARNING** The cutting bar and the rotating reel blades can be damaged if they are adjusted too close to each other.

### 1. Loosening the blades

The cutting bar must be moved away from the rotating cutting reel by turning the spring loaded screws equally counter clockwise. **Be sure to loosen both spring loaded screws on both sides of the mower the same amount of turns (see Figure 2).** Use very fine adjustments!

### 2. Tightening the blades

The cutter bar must be moved closer the cutting reel by turning the spring loaded screws equally clockwise. **Be sure to tighten the spring loaded screws on both sides of the mower the same amount same of turns(see Figure 2).** Use very fine adjustments!

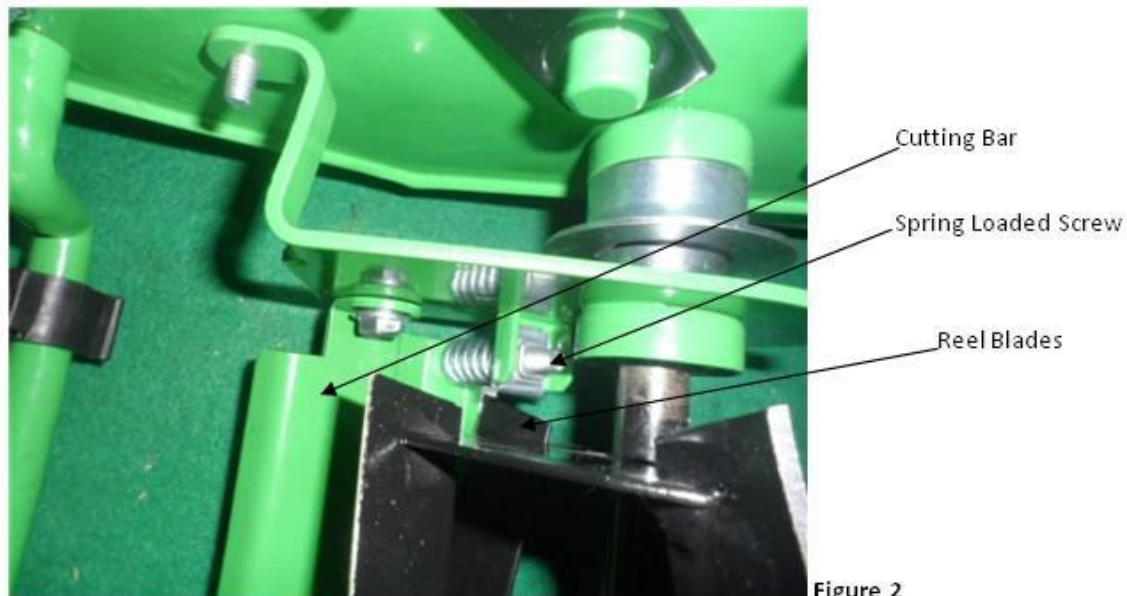


Figure 2

### 3. Checking the adjustments

a). Turn the mower upside down.

- b).Insert a piece of paper between the cutter bar and the reel blades and carefully turn the reel blades by hand.
- c).All blades should slice the paper evenly along the entire length of the cutter bar while the reel turns smoothly.
- d).If the mower has an intermittent cut, adjustment should be made to the appropriate sides of the blades to attain proper cutting action. **Remember, only adjust in tiny increments.**

#### 4.General care

To extend the life of the equipment, clean, lightly oil and store the machine and accessories during inclement weather. Minimum care is required to ensure smooth operation. To avoid damage to the cutting blades, keep the area to be mowed free from any debris like small stones. For best results regularly apply oil or lubricant to the machine, accessories, bearings and any other moving parts.

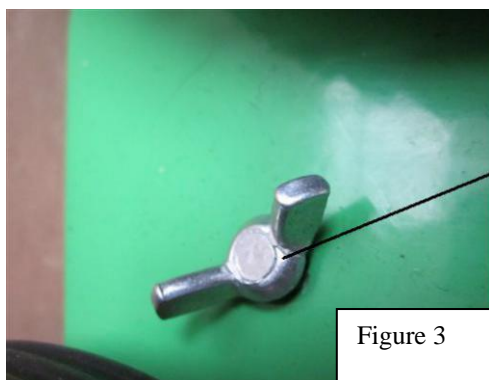


**WARNING** Keep cutter bar free from any debris.

## VII. Changing Accessory Cassettes

Fitting and changing accessory cassettes only takes a few moments provided you follow these instructions. This 3-in-1 machine is supplied with the mower accessory already fitted.

To remove the mower cassette, first unscrew the two butterfly bolts(see Figure3) (one on each side of the machine). After removing these two bolts, squeeze the spring loaded connectors(see Figure 4) inwards with two hands(remember to wear protective gloves) ,then pull out the mower cassette carefully(see Figure 5). You may find it easier to first remove the handle and set the adjustable height to maximum.



Butterfly bolt

Figure 3



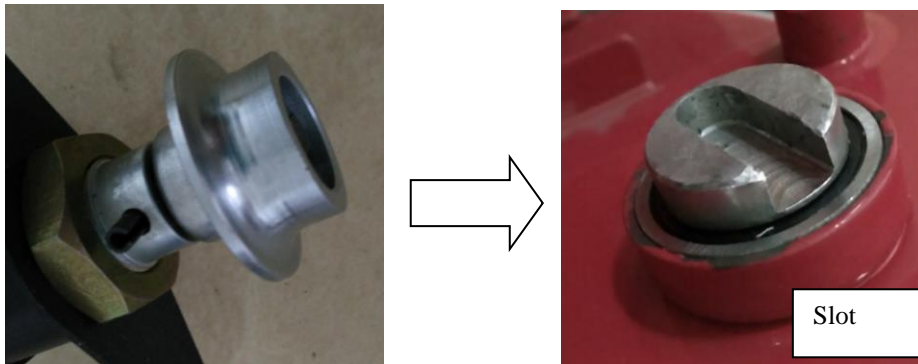
Figure 4 Spring loaded connector



**Figure 5**

**Take off the spring loaded connectors from mower cassette and fit them to aerator cassette or scarifier cassette, then squeeze the connectors inwards and fit to the slots. Ensure that both spring-loaded connectors are fully locked in place before attempting to use the machine.**

(All accessory cassettes are held in place with the wheel-drive mechanism via a spring loaded connector as in the picture below. There must be one spring-loaded connector at each end. These connectors **MUST** be fitted each time you fit any cassette.)



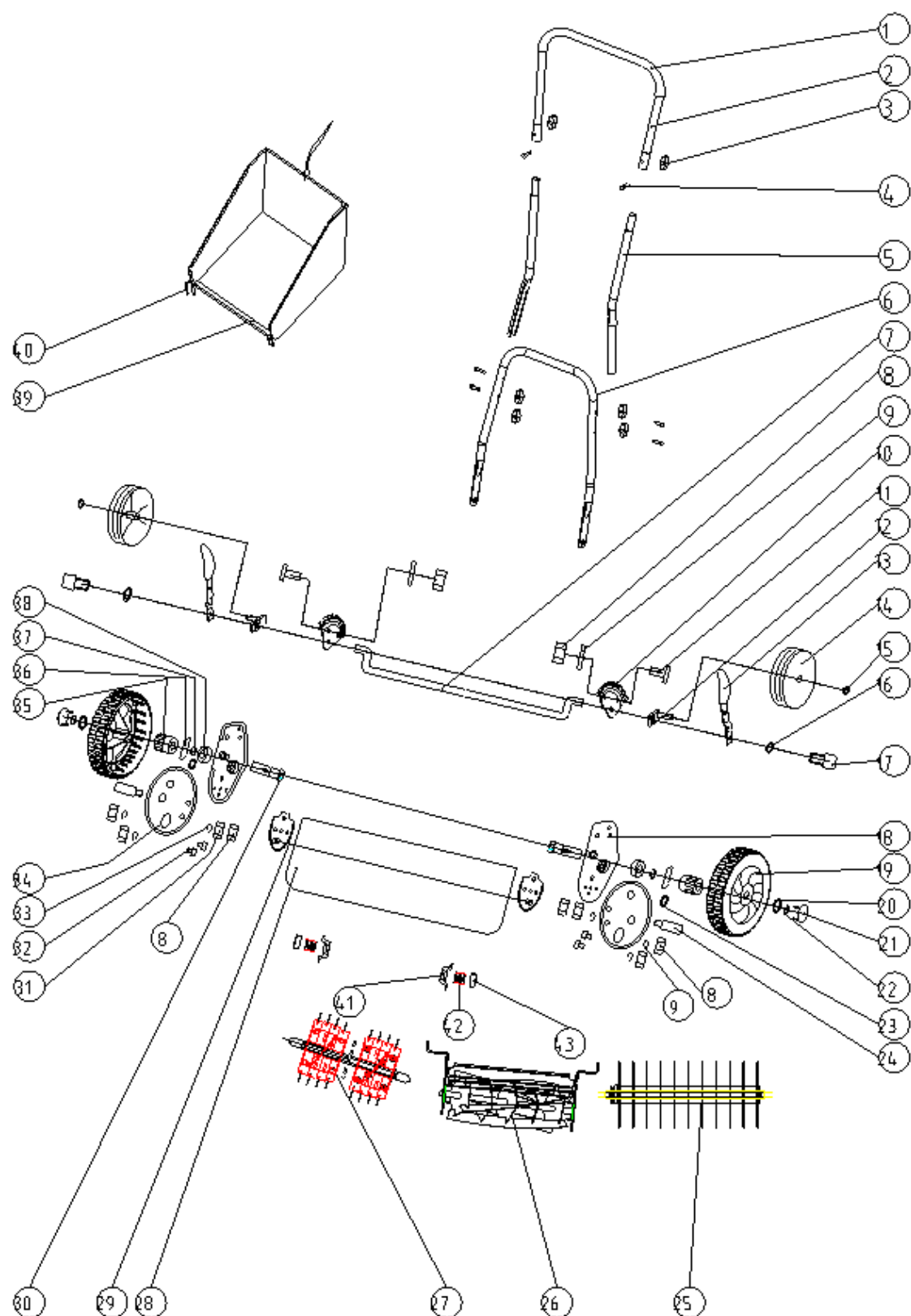
**Keep all connectors cleaned and well-oiled.**

## **VIII. Guarantee**

This product carries a 12 month guarantee from date of purchase for use only within the domestic environment. This guarantee covers defective parts and faulty workmanship and not misuse, abuse, using the product for purposes other than those for which it was

intended, or if the product has been modified in any way. Proof of purchase will be required. Your statutory rights remain unaffected.

## **Exploded view & Parts list**





NO.	NAME	NO.	NAME
1	handle set	25	scarifier cassette
2	handle	26	blade system
3	knob	27	aerator cassette
4	bolt M6X35	28	plate
5	connecting bar	29	cover plate support
6	fuselage bar	30	connecting shaft
7	rod for rear wheels	31	nut
8	inserted nut	32	bolt
9	washer	33	spring-loaded retainer ring
10	height adjustment plate	34	connecting plate
11	bolt	35	rack wheel
12	rear wheels supporting system	36	tongue piece
13	adjustment handle	37	retainer ring
14	rear wheels	38	bearing
15	split washer	39	collection bag
16	wave washer	40	support for collection bag
17	bolt	41	lock sleeve
18	mounting plate system	42	lock spring
19	wheel hub	43	spring-loaded base
20	washer		
21	wheel cap		
22	retainer ring		
23	anti-drop washer		
24	axle		