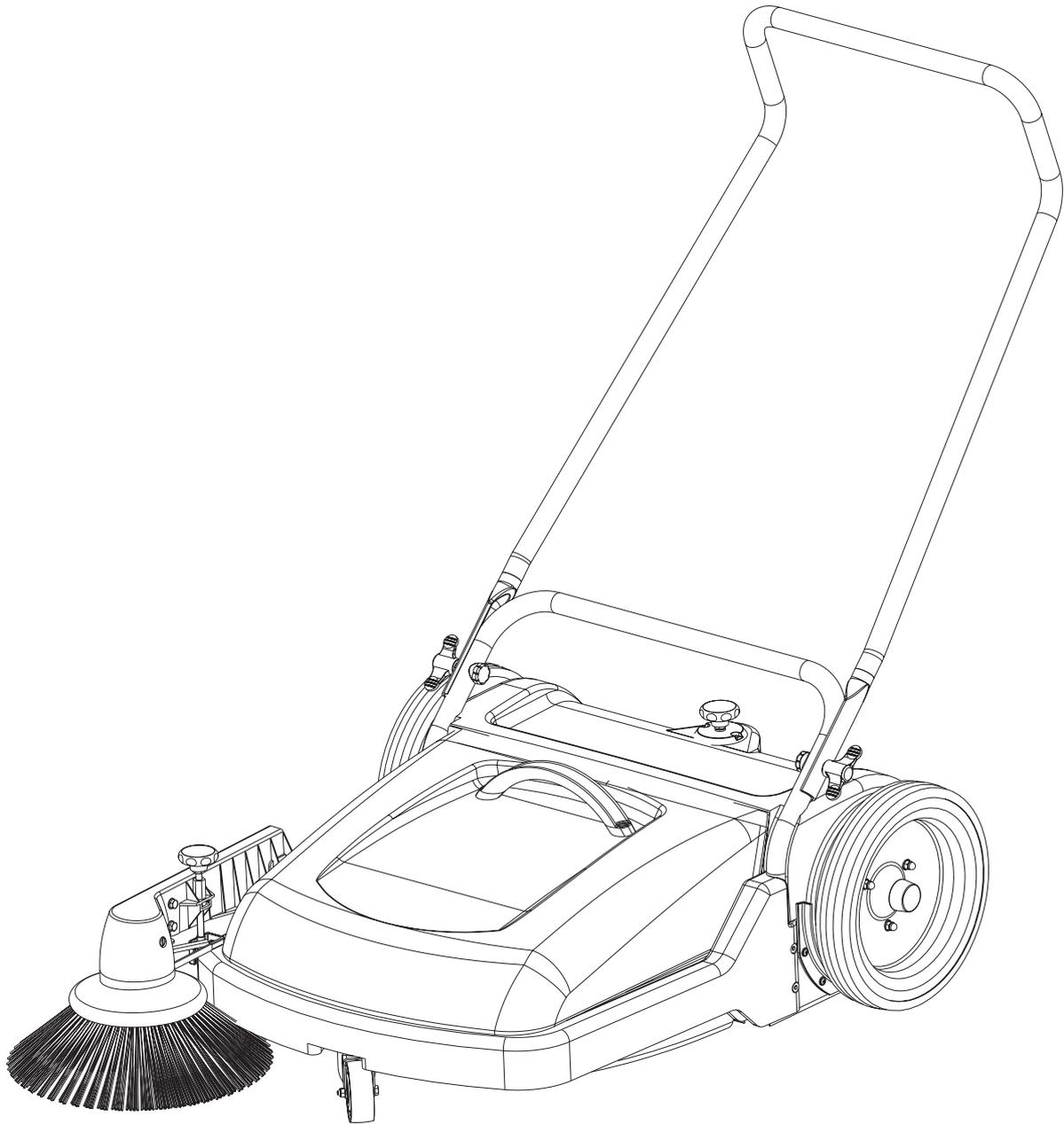


Hako



FLIPPER +



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Instruction Manual

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Preface

Dear Customer,

It is our desire that the excellent properties of the Flipper + should justify the confidence you demonstrated in making this purchase. Before first operation of your Flipper + read these instructions carefully. They will inform you in detail about the operation of the item and contains valuable information on operation, service and maintenance.

Flipper + machine is an ideal machine to clean outdoors in large and medium areas like Offices, Hospital, Restaurant, Shopping Complexes and many commercial applications.

The exclamation mark symbol



has been used in this manual at several places and identifies particular areas that are of essence for your safety. Please pass all safety instructions on to other persons operating this machine.

The symbol,



has been used in the manual in several places and identifies particular areas that the operator should be cautious.

The symbol,



has been used in the manual in several places and identifies particular areas that the operator should note at the Time of operation.



Prior to first operation, read the manual carefully and strictly comply with the instructions contained.

Please be advised explicitly that we cannot accept any legal claims out of the contents of this manual.

If repair work has to be performed, make sure that only genuine spare parts are used since genuine spare parts only may guarantee continuous and dependable operation of your machine.

Valid as for September 2010

Hako Australia Pty Ltd.
6 Pike Street, Rydalmere NSW 2116 Australia
Ph - +61 2 9684 2433
Fax - +61 2 9684 2278
Web - www.hakoaustralia.com.au

Introduction

Proper Use

The Flipper + machine has been exclusively designed for floor cleaning, such as dry sweeping. Whatever sort of use beyond the specified range will be deemed improper use the manufacturer can not be held liable for consequential damages.

The term of proper use also includes compliance with the manufacturer's instructions about operation, maintenance and repair.

The Flipper + may be used, serviced and repaired by persons only that are familiar with the machine and are aware of possible hazards involved. The appropriate Accident Prevention Regulations as well as applicable general regulations about safety and health at work will have to be complied with.

Modifications made to the Flipper + in absence of the manufacturer's consent will relieve the manufacturer from a possible liability for consequential damage.



This machine is not suitable for evacuation of dusts, which are explosive or dangerous to health.

Notes on Warranty

The terms of the sales contract apply. Damages are not subject to warranty if they are due to non-compliance with the maintenance and service provisions.

Any maintenance work has to be performed by an authorized Hako service workshop and confirmed in the "Maintenance certificate" which is the warranty document.

The following is excluded from warranty:

Natural wear and tear after overload, damages caused by inexperienced handling and unauthorized modification of the machine.

Moreover, any claim for warranty expires if damages at the machine are caused by fitting of parts or accessories without Hako's prior and explicit consent or by non-compliance with the maintenance instructions.

Acceptance of the Machine

Upon arrival, check your consignment for possible transit damage. Please have the railway authorities or the freight forwarder confirm such damage and mail your damage report and waybill to:

Ours Address :
Hako Australia Pty Ltd.
6 Pike Street, Rydalmere NSW 2116 Australia
Ph - +61 2 9684 2433
Fax - +61 2 9684 2278
Web - www.hakoaustralia.com.au

General Safety Instructions



General Safety Instructions

Apart from the information contained in this manual, the generally applicable legal provisions for safety and prevention of accidents must be adhered to. Do not put this manual aside without having read it, even if you did already operate similar ground cleaning equipment before. Allow yourself the time to do so in order to save time at a later moment. The operator is responsible for all persons in the working area. Children have to keep clear of the Flipper + in operation. Nobody is allowed to stay in the zone of danger.

Machines with known defects must not be used. It is important to familiarize yourself with all accessories and controls, as well as their functions, before you start working. Avoid the mess of having to read this book while trying to run the machine.



Machine Safety

Floor cleaning machines may be run by qualified personnel only;

The machine may be used for cleaning such surfaces approved by the owner or this authorized representative.

Do not use the machine in wet and slushy areas.

Park the machine in a dry place.

Do not use the machine in areas where there is no properly paved roads.

Using the machine on public roads and places is not admitted.

Qualified personnel only are admitted to perform maintenance and repair work.



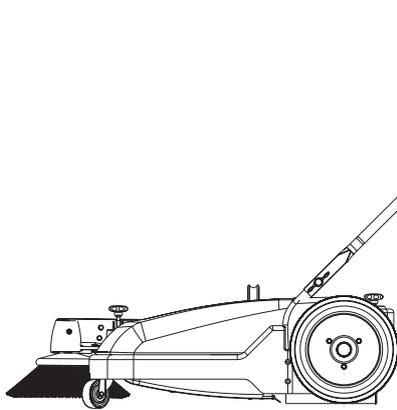
**Do not clean the machine by means of vapour jet or high pressure cleaning equipment.
Use of the machine in areas endangered by explosion hazard is not admitted.**

1.0 How to put the machine into operation

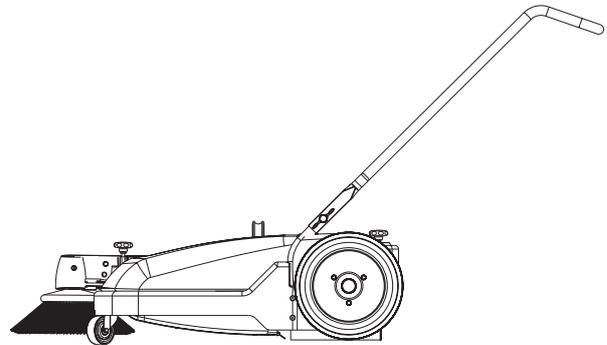
1.1 Assembly

For ease of packing, the handle and side brush assembly are packed separately. These parts must be installed before the machine is put into operation.

The handle is mounted by means of knobs (3 - fig on next page)
Handle can be fixed in two different positions as shown below.



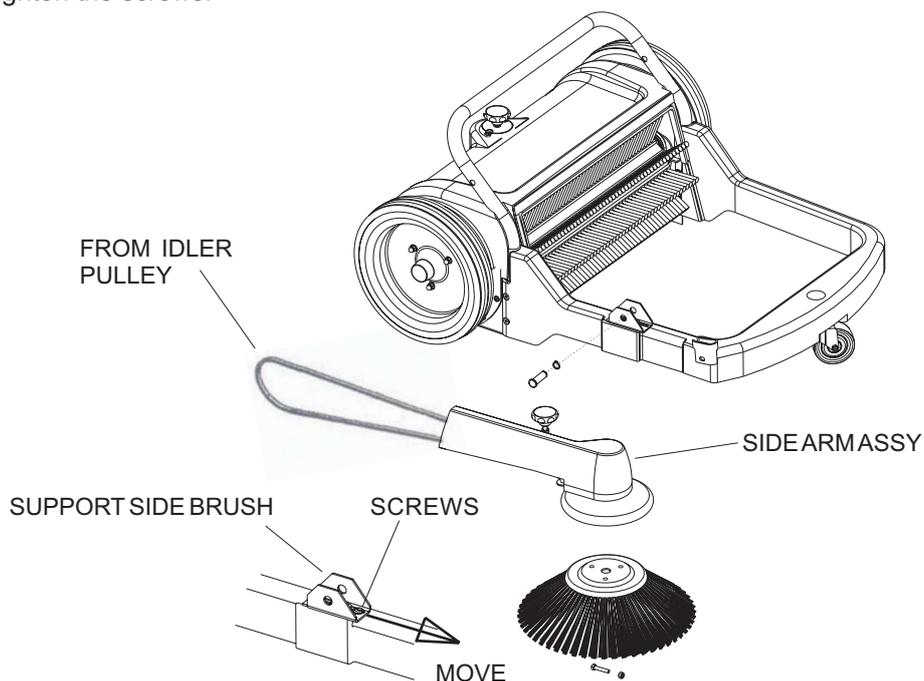
Handle position 1



Handle position 2

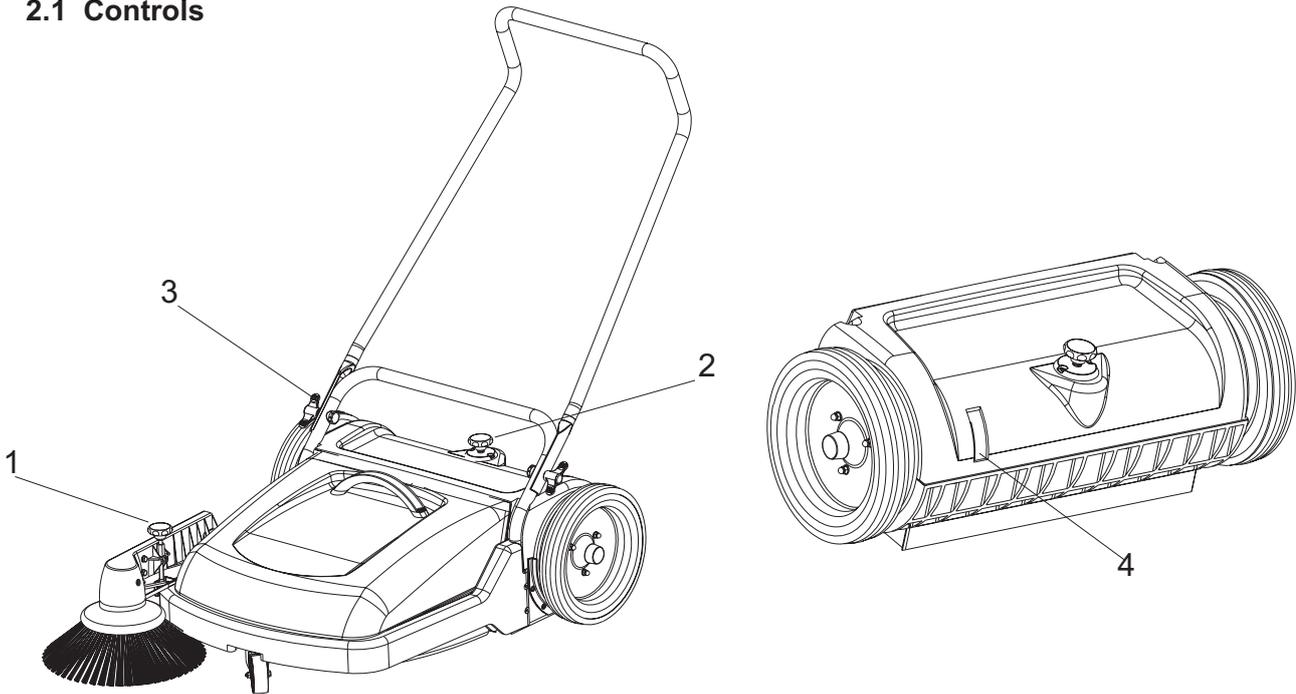
1.2 Side Brush Assembly

1. Mount the side broom to the brush plate on the side arm assembly using hex head bolt and nylock nut.
2. Position the V-Belt from the side arm assembly around the pulley attached to the backside of the right wheel. In order to do this it will be necessary to twist the V-Belt. The lower loop of the v-belt should be coming from the idler pulley (not from the broom pulley).
3. Attach the side arm assembly to the support side brush on the frame by aligning the bushing in the side arm with holes in the sides of the support side brush and inserting a pin. Secure the pin in place by inserting a retaining ring into the groove in the pin.
4. Check for proper rotation and operation of the side broom. The broom should rotate counter clockwise when the sweeper is pushed forward-if not the v-belt was installed incorrectly. If the belt slips the tension can be adjusted by loosening the 2 screws that attach the support side brush to the frame, move the bracket forward, then re-tighten the screws.



2.0 Operation

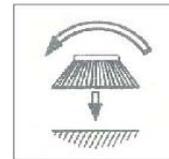
2.1 Controls



1. Pressure adjustment knob for Side Brush

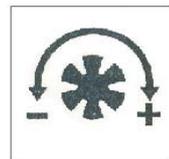
Used for setting of the side brush. The side brush may touch the floor only by its one third section, so as to throw the swept matter into the machine.

The castor wheel is to keep the pre-set working height of the side brush.



2. Pressure adjustment knob for Main Brush

Used for setting of the main brush pressure. The pressure must be set so as to assure perfect cleaning operation.



3. Knobs

Used to secure the handle to the machine or to reposition it.



Excess pressure will cause unnecessary wear of the brush and increased load for the operator.

4. Main Brush Pressure Reading Scale

Indicates the pressure at which the main brush has been set.

Setting must be performed as described below :

Set the main brush by turning the knob clock-wise to increase the pressure, at this position the scale should read '5' .

Starting with this setting, the main brush pressure can be increased to meet the requirement. (As the brush wears out)

Turn the knob in counter-clockwise direction to reduce the main brush pressure according to the requirement.



2.2 Operation of the Flipper +

The Flipper + operates with two brushes. The side brush takes dirt from the side into the reach of the main brush. The main brush maintains its direction of rotation to throw the dirt into the hopper in forward direction of the machine.

2.3 Overcoming Obstacles

In case of normal obstacles coming in the way of sweeping the Flipper + should be pressed down at the handle. This will cause the two brushes to lift off from the floor and the machine can easily surmount these obstacles.

2.4 Emptying of Hopper

The hopper can be easily lifted by using the handle provided. The hopper is secured to the machine by means of the frame. The hopper must be in direct contact with the brush compartment in order to prevent leakage of dirt.

2.5 Renewal of Brush Assemblies

The main brush consists of a brush shaft with two brush core assemblies fastened with six self tapping screws.

The brush cores can be replaced as below:

- Unscrew the self tapping screws
- Pull the brush core assembly to the front (broom viewed from user side) to remove it from the brush shaft.



When reassembly of the brush ensure the split pins are fixed in the holes to guide the brush.

2.6 Rubber Sealing Aprons

The rubber aprons avoid leaking of the dust produced by the brush. Damaged or used aprons cannot fulfill this task any longer and must be replaced.

2.7 Greasing of the Main Wheels

For cleaning and greasing of the wheel axle and the gear ring, the main wheels must be removed as described below.

1. Remove hood, remove the bolt and domed cap nut from the wheel and pull the main wheel.
2. Unscrew the gear cover and apply grease in the gear area.
3. Reposition the main wheel.

2.8 Replacement and Tensioning of the V-belt

1. Lift up the side brush arm
2. Loosen the clamp screw and pull out the side brush from the brush arm.
3. Place the V-belt through the brush arm and put it on the V-belt pulley on the brush shaft
4. Push the side brush back into the brush arm and re-tighten the clamp screw.
5. Place V-belt into the groove of the right-hand main wheel.

When the brush arm is put down, the V-belt must be tensioned so as to allow a perfect drive transmission, if necessary re-tighten by shifting of the side brush arm bearing.

2.9 Replacement of the Side Brush

The side brush can be replaced after removing hex-bolts from the side brush.

2.9.a Regaining of Bristles

If the bristles have been bent inwards in transit the side brush must be placed on a flat base, the bristles pointing outward and a weight must be placed on the plate. The bristles will regain their correct position gradually.

If the bristles have been bent outwards, bring them together apply a rubber band around the bristles and allow it to stay for sometime. The bristles will regain their correct position gradually.



Refer figure on page 3 for point 2.8 and 2.9.

3.0 Technical Specification

| DESCRIPTION | UNIT | VALUE |
|------------------------------------|------|-------------------------------|
| WIDTH | mm | 725 |
| WIDTH WITH SIDE BRUSH | mm | 785 |
| HEIGHT WITH HANDLE | mm | 1020 |
| HEIGHT WITHOUT HANDLE | mm | 400 |
| LENGTH WITH SIDE BRUSH | mm | 1000 |
| LENGTH WITHOUT SIDE BRUSH | mm | 800 |
| WEIGHT WITH SIDE BRUSH GROUP | kg | 26 |
| DIAMETER OF DRIVE WHEEL | mm | 280 |
| SWEEPING WIDTH WITHOUT SIDE BRUSH | mm | 460 |
| SWEEPING WIDTH WITH SIDE BRUSH | mm | 650 |
| DIAMETER OF MAIN BRUSH | mm | 230 |
| MAIN BRUSH BRISTLE DIA | mm | 0.18 |
| BRUSH SPEED (THEORETICAL) | rpm | 273 at 4 kmph |
| SIDE BRUSH BRISTLE DIA | mm | 0.4 |
| V-BELT (SIDE BRUSH) | mm | 8 x 1680 |
| DIRT BOX CAPACITY | Lit | 40 |
| DIRECTION OF ROTATION FOR SWEEPING | | Forward |
| AREA COVERAGE | | Upto 2600 sq.mtr/hr at 4 kmph |

4.0 Maintenance Schedule



4.1 Maintenance Works

Compliance with our operating and maintenance instructions will ensure trouble free and smooth operation of the machine we have supplied.

If you are not capable of performing the works according to the maintenance schedule by yourself, please contact your Hako dealer. Our agents, who have trained staff and stock original Hako spares will be glad to perform those works for you.

In case of all enquires and when ordering spare parts, please quote the machine No indicated on the name plate and on the guarantee card. The nameplate is installed on the left side of the frame.



4.2 Maintenance Intervals

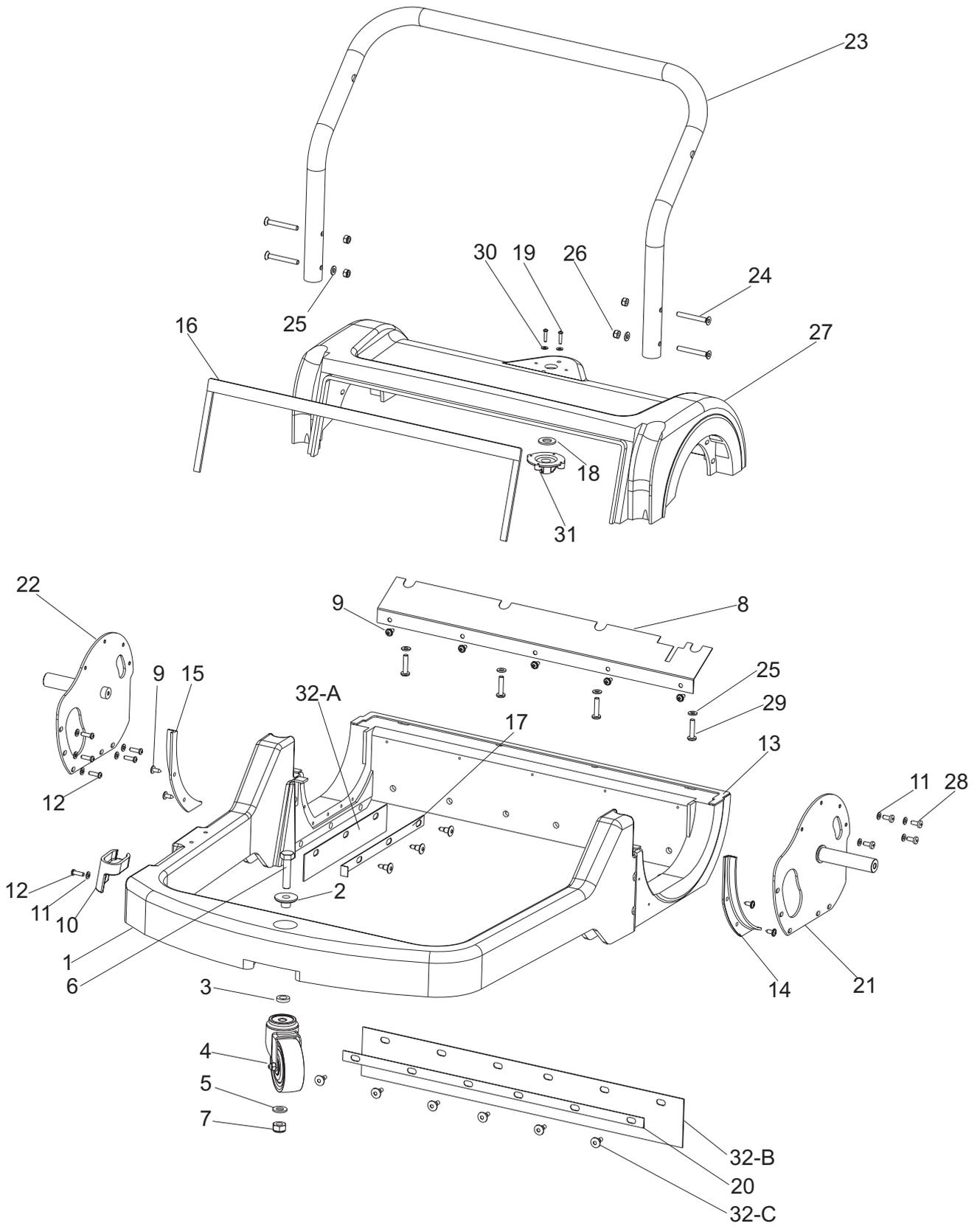
- | | |
|---------|---|
| Daily | - empty dirt box - clean the unit - check brushes and sealing aprons |
| Weekly | - remove the ropes, tapes etc entangled in the main brush shaft |
| Monthly | - grease the track wheels - check V-belt tension, if necessary, re-tighten |

5.0 Trouble Shooting



| TROUBLE | REMEDIAL ACTION |
|---|---|
| 1. Machine hard to push/pull | Decrease main brush pressure setting Grease main Wheels |
| 2. Sweeping unsatisfactory | Increase Main/Side Brush Pressure Clean Main/Side Brush Check Main Brush for loose bristles |
| 3. Traces of dirt left behind the machine | Check side/rear rubber sealings |
| 4. Side Brush not rotating | Check V- Belt for transmission. |

Spare Parts Manual

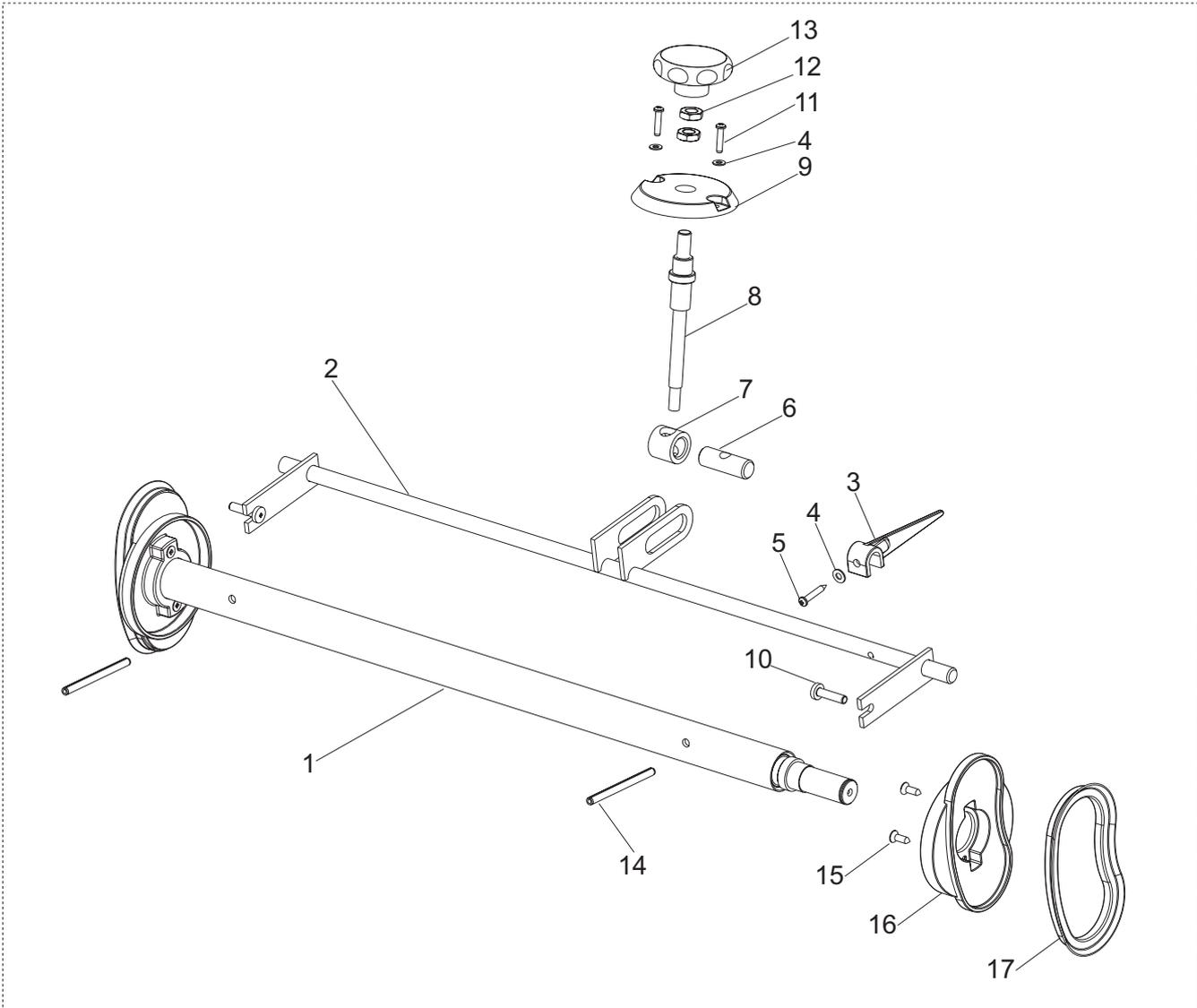
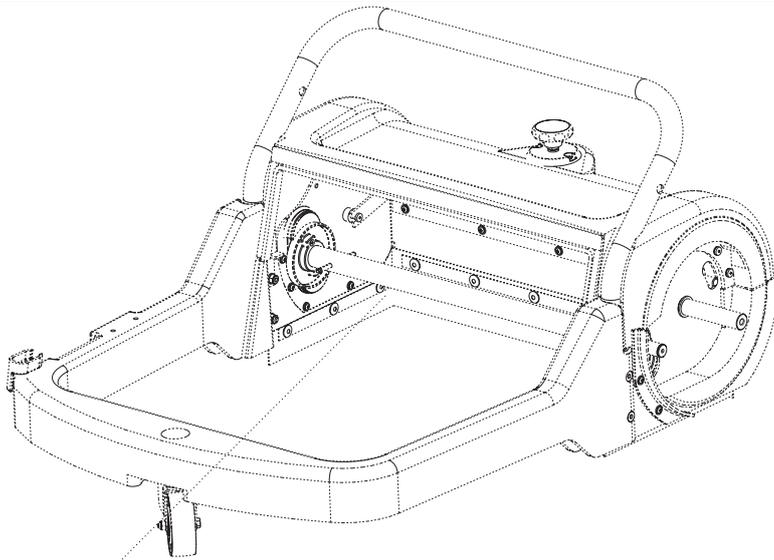


| 32 - 552180041-RUBBER STRIP KIT - FLIPPER + | | | |
|---|-----------|-------------------|-----|
| REF NO | PART NO | DESCRIPTION | QTY |
| A | 552130015 | SIDE RUBBER STRIP | 2 |
| B | 552130025 | REAR RUBBER STRIP | 1 |
| C | 881097 | ROCKET CLIP | 12 |

The above items will be supplied only as a kit.

FRAME GROUP**11**

| Sl.No | Part No | Description | Qty |
|--------------|----------------|-------------------------------------|------------|
| 1 | 552130007 | FRAME | 1 |
| 2 | 552130027 | STEPPED WASHER | 1 |
| 3 | 921007 | WASHER STEEL 10.5X18.0X4.0 | 1 |
| 4 | 922824 | CASTOR WHEEL ASSY (LOCAL) | 1 |
| 5 | 844101 | WASHER STEEL 10.5X20.0X2.0 | 1 |
| 6 | 802510 | HEX HEAD SCREW - STEEL 8.8 - M10X45 | 1 |
| 7 | 859106 | HEX NYLOCK NUT M10 | 1 |
| 8 | 552130051 | SPLASH SHIELD | 1 |
| 9 | 921131 | SELF TAPPING SCREW W/COLLAR 4.8X13 | 9 |
| 10 | 552130028 | HOLDER SIDE BRUSH ARM | 1 |
| 11 | 844051 | WASHER STEEL 5.3X10.0X1.0 | 19 |
| 12 | 837210 | CRPH SELF TAPPING SCREW 4.8X16 | 11 |
| 13 | 923255 | GASKET FRAME | 1 |
| 14 | 552130090 | CURVE PLATE LH | 1 |
| 15 | 552130091 | CURVE PLATE RH | 1 |
| 16 | 102544 | CASTELLATED GASKET | 1.5 m |
| 17 | 552130075 | SIDE STRIP HOLDER | 2 |
| 18 | 845204 | WASHER SS 304 12.5X24X2 | 1 |
| 19 | 926057 | CRPH SELF TAPPING SCREW 3.5X16 | 2 |
| 20 | 552130074 | REAR STRIP HOLDER | 1 |
| 21 | 552180034 | SIDE PLATE GROUP LH | 1 |
| 22 | 552180035 | SIDE PLATE GROUP RH | 1 |
| 23 | 552130055 | HANDLE | 1 |
| 24 | 828512 | HEX SOC CSK HEAD SCREW- STEEL M6X45 | 4 |
| 25 | 844061 | WASHER STEEL 6.4X12.5X1.6 | 8 |
| 26 | 859068 | HEX NYLOCK NUT-STEEL GR.8 -M6 | 4 |
| 27 | 552130008 | COVER | 1 |
| 28 | 817204 | CR PAN HEAD SCREW - STEEL M5X12 | 8 |
| 29 | 835709 | CRPH SELF TAPPING SCREW-6.3X30 | 4 |
| 30 | 844041 | WASHER STEEL 4.3X9.0X0.8 | 2 |
| 31 | 552130084 | BOTTOM COVER THREAD ROD | 1 |
| 32 | 552180041 | RUBBER STRIP KIT FLIPPER + | 1 |

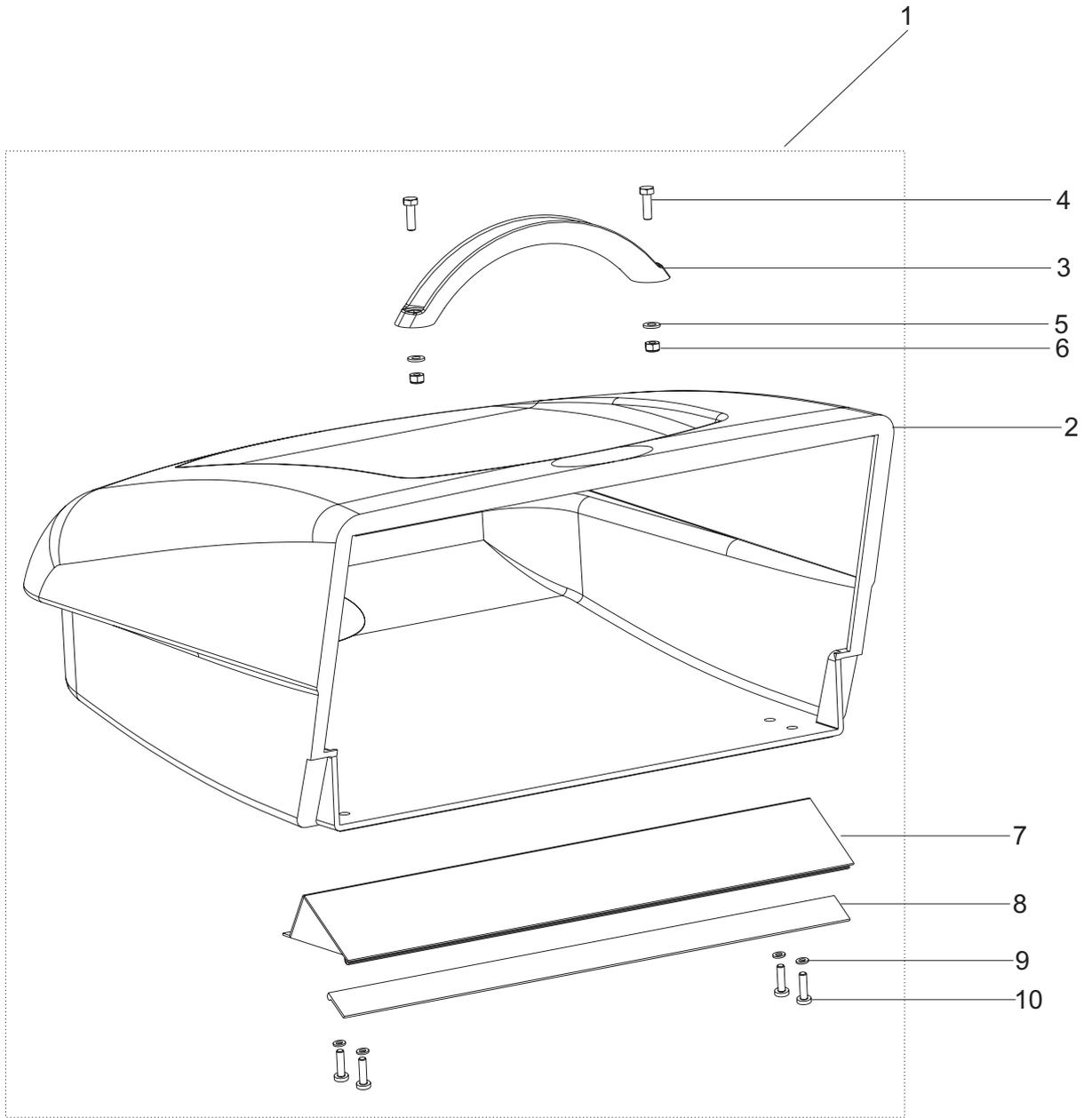


BRUSH SHAFT GROUP**13**

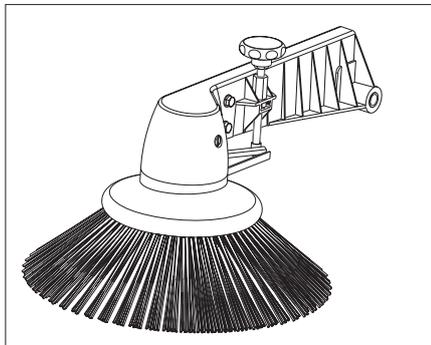
| Sl.No | Part No | Description | Qty |
|--------------|----------------|---|------------|
| 1 | 552180031 | BRUSH SHAFT GROUP | 1 |
| 2 | 552180033 | PRESSURE ADJUSTMENT GROUP | 1 |
| 3 | 552130089 | INDICATOR | 1 |
| 4 | 844041 | WASHER STEEL 4.3X9.0X0.8 | 3 |
| 5 | 836210 | CRPH SELF TAP SCREW 3.5X25 | 1 |
| 6 | 552130039 | TRUNNION SHAFT | 1 |
| 7 | 552130092 | SPACER THREAD ROD | 1 |
| 8 | 552180036 | THREAD ROD GROUP | 1 |
| 9 | 552130085 | TOP COVER THREAD ROD | 1 |
| 10 | 817207 | CR PAN HEAD SCREW STEEL -M5X20 | 2 |
| 11 | 926057 | CRPH SELF TAPPING SCREW- 3.5X16 | 2 |
| 12 | 833084 | HEX LOCK NUT STEEL M8 | 2 |
| 13 | 921776 | KNOB ASSY | 1 |
| 14 | 552130056 | SPLIT PIN 63 | 2 |
| 15 | 841110 | CRCSK SELF TAPPING SCREW- STEEL- 3.5x12.7 | 4 |
| 16 | 552130079 | BOOT | 2 |
| 17 | 552130080 | SEAL | 2 |

HANDLE & GEAR ASSY**15**

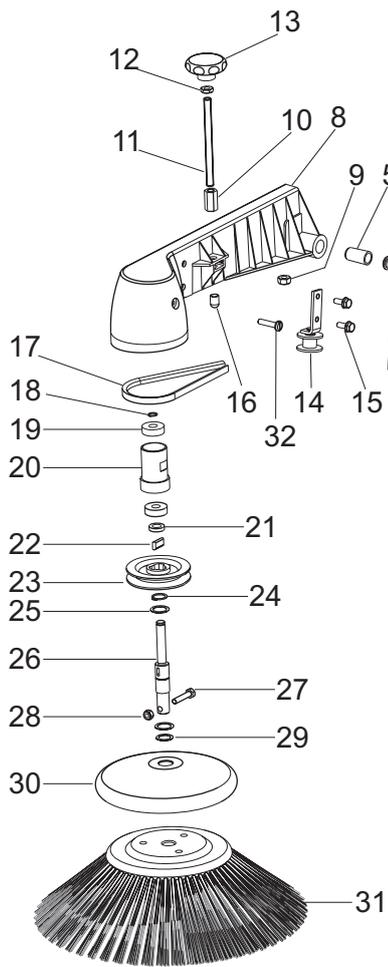
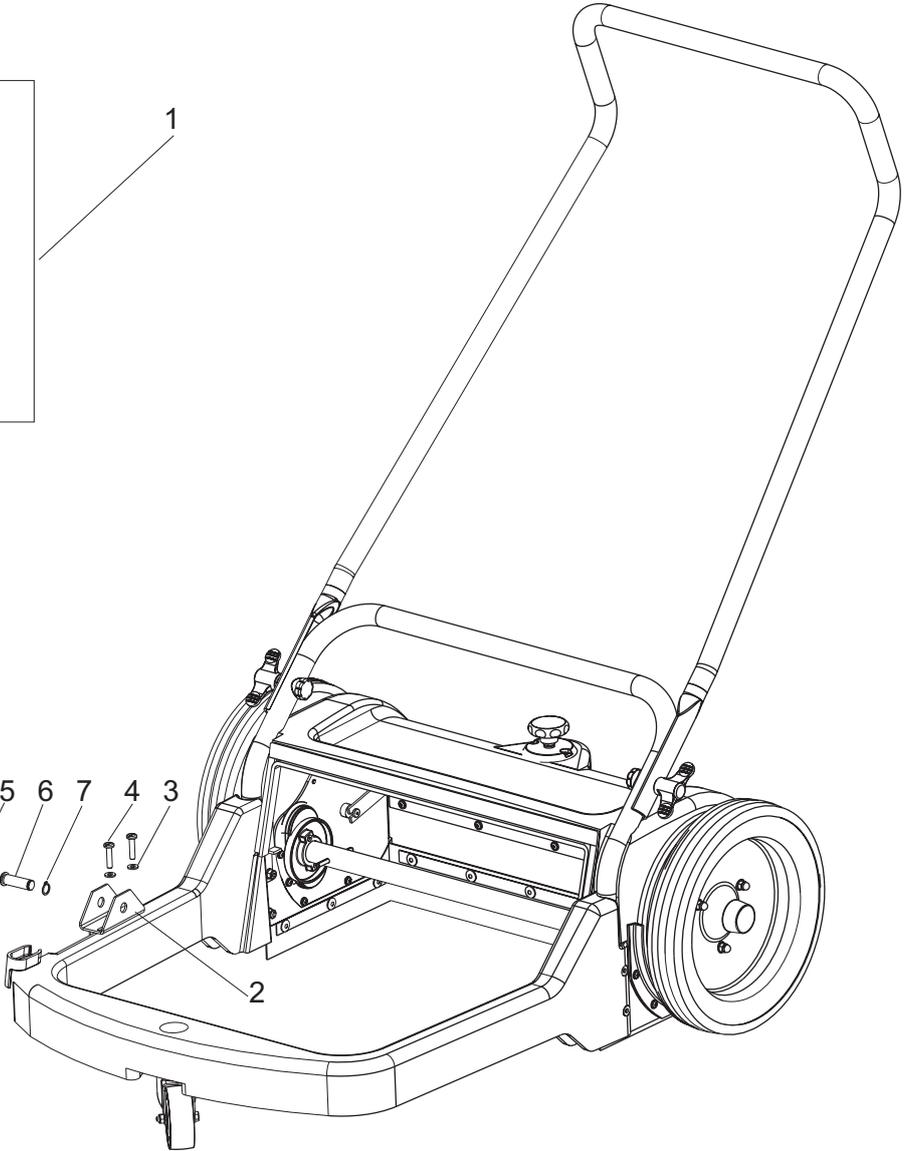
| Sl.No | Part No | Description | Qty |
|--------------|----------------|--------------------------------------|------------|
| 1 | 552130082 | GEAR COVER BOTTOM | 2 |
| 2 | 875010 | DG BALL BEARING 6003 2 RS | 2 |
| 3 | 923422 | CIRCLIP EXTERNAL A17 | 2 |
| 4 | 921065 | WASHER STEEL 16X22X1.5 | 2 |
| 5 | 552130044 | PINION | 2 |
| 6 | 921066 | WASHER STEEL 16X22X0.5 | 2 |
| 7 | 552130078 | WASHER STEEL 20X28X0.5 | 2 |
| 8 | 552180040 | GEAR ASSY | 2 |
| 9 | 552130083 | GEAR COVER | 2 |
| 10 | 926057 | CRPH SELF TAPPING SCREW-3.5x16 | 6 |
| 11 | 552130081 | PROTECTION DISK | 2 |
| 12 | 921006 | KEY | 2 |
| 13 | 552130009 | WHEEL RIM MM | 2 |
| 14 | 921077 | TYRE MAIN WHEEL | 2 |
| 15 | 844061 | WASHER-STEEL-6.4X12.5X1.6 | 6 |
| 16 | 838060 | DOMED CAP NUT-SS 304-M6 | 6 |
| 17 | 553530019 | WASHER WHEEL | 2 |
| 18 | 829407 | HEX SOC CSK HD SCREW - SS304 M8X20 | 2 |
| 19 | 552130067 | WHEEL CAP | 2 |
| 20 | 552180026 | BRUSH FLIPPER | 1 Set |
| 21 | 835708 | CRPH SELF TAPPING SCREW-STEEL-4.8x40 | 6 |
| 22 | 552130057 | UPPER HANDLE | 1 |
| 23 | 552130062 | KNOB ASSY MALE | 2 |
| 24 | 927872 | KNOB-HANDLE | 2 |
| 25 | 923429 | CIRCLIP EXTERNAL A16 | 2 |



| Sl.No | Part No | Description | Qty |
|--------------|----------------|------------------------------------|------------|
| 1 | 552180023 | HOPPER ASSY | 1 |
| 2 | 552130006 | HOPPER COLLECTION | 1 |
| 3 | 552130060 | HANDLE FLIPPER | 1 |
| 4 | 802307 | HEX HEAD SCREW - STEEL 8.8 - M6X20 | 2 |
| 5 | 844061 | WASHER-STEEL-6.4X12.5X1.6 | 2 |
| 6 | 859068 | HEX NYLOCK NUT-STEEL GR.8 -M6 -LOW | 2 |
| 7 | 552180032 | DUST RAMP GROUP | 1 |
| 8 | 552130063 | HOPPER RUBBER STRIP | 1 |
| 9 | 999161 | WASHER-STEEL-5.3X13X1.0 | 4 |
| 10 | 817207 | CR PAN HEAD SCREW - STEEL M5X20 | 4 |



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| Sl.No | Part No | Description | Qty |
|--------------|----------------|------------------------------------|------------|
| 1 | 552180025 | SIDE BRUSH GROUP MM | 1 |
| 2 | 921017 | SUPPORT SIDE BRUSH ARM | 1 |
| 3 | 844061 | WASHER-STEEL-6.4X12.5X1.6 | 2 |
| 4 | 835709 | CRPH SELF TAP SCREW STEEL 6.3X30 | 2 |
| 5 | 921107 | TAPER BUSH SIDE BRUSH ARM | 1 |
| 6 | 921013 | CLEVIS PIN SIDE BRUSH ARM | 1 |
| 7 | 923418 | CIRCLIP EXTERNAL A12 | 1 |
| 8 | 552130014 | MOLDED SIDE ARM | 1 |
| 9 | 833084 | HEX LOCK NUT STEEL M8 | 1 |
| 10 | 921018 | NUT SIDE BRUSH KNOB | 1 |
| 11 | 921011 | THREADED ROD SIDE BRUSH | 1 |
| 12 | 833084 | HEX LOCK NUT STEEL M8 | 1 |
| 13 | 921776 | KNOB ASSY | 1 |
| 14 | 921788 | IDLER BRACKET ASSY | 1 |
| 15 | 921133 | HEX HEAD SCREW M6x16/13 mm COLLAR | 2 |
| 16 | 921012 | PROTECTION CAP THREAD ROD | 1 |
| 17 | 921103 | V-BELT | 1 |
| 18 | 923427 | EXTERNAL CIRCLIP A10 | 1 |
| 19 | 875001 | BEARING 6000 ZZ | 2 |
| 20 | 921015 | BEARING HOUSING SIDE BRUSH ARM | 1 |
| 21 | 921007 | WASHER 10.5x18.0x4.0 | 1 |
| 22 | 921006 | KEY | 1 |
| 23 | 921014 | V-BELT PULLEY | 1 |
| 24 | 923429 | EXTERNAL CIRCLIP A16 | 1 |
| 25 | 921066 | WASHER 16.2x22x0.5 | 2 |
| 26 | 921141 | AXLE SIDE BRUSH | 1 |
| 27 | 802309 | HEX HEAD SCREW - STEEL 8.8 - M6X30 | 1 |
| 28 | 859066 | HEX NYLOCK NUT-STEEL GR.6-M6-LOW | 3 |
| 29 | 923250 | WASHER 14.2x20x0.5 | 1 |
| 30 | 923169 | DEFLECTOR ROLLER | 1 |
| 31 | 923783 | SIDE BRUSH | 1 |
| 32 | 552130102 | CRPH STS 6.3X30 MACHINED | 1 |

LIMITED WARRANTY

Hako Australia Pty Ltd warrants to the original purchaser/user that this product is free from defects in workmanship and materials under normal use and service for a period of one year from date of purchase. In addition, Hako Australia Pty Ltd will, at its option, honor labor warranty claims for the first 6 months from date of sale, provided such claims are submitted through and approved by factory authorized repair stations. Hako Australia Pty Ltd will, at its option, repair or replace without charge, except for transportation costs, parts that fail under normal use and service when operated and maintained in accordance with the applicable operation and instruction manuals.

This warranty does not apply to normal wear, or to items whose life is dependent on their use and care, such as belts, cords, switches, hoses, rubber parts, electrical motor components or adjustments. Parts not manufactured by Hako Australia Pty Ltd such as engines, batteries, battery chargers, hydraulic pumps, and tires are covered by and subject to the warranties and/or guarantees of their manufacturers. Please contact Hako Australia Pty Ltd for procedures in warranty claims against these manufacturers.

Special warning to purchaser - Use of replacement filters and / or pre-filters not manufactured by Hako Australia Pty Ltd or its designated licensees will void all warranties expressed or implied.

A potential health hazard exists without exact original equipment replacement.

All warranted items become the sole property of Hako Australia Pty Ltd or its original manufacturer, whichever the case may be.

Hako Australia Pty Ltd disclaims any implied warranty, including the warranty of merchantability and the warranty of fitness for a particular purpose. Hako Australia Pty Ltd assumes no responsibility for any special, incidental or consequential damages.

This limited warranty is applicable only in India, and is extended only to the original user / purchaser of this product. Hako Australia Pty Ltd is not responsible for costs or repairs performed by persons other than those specifically authorized by Hako Australia Pty Ltd. This warranty does not apply to damage from transportation, alterations by unauthorized person, misuse or abuse of the equipment, use of non-compatible chemicals, or damage to property, or loss of income due to malfunctions of the product.

If a difficulty develops with this machine, you should contact the dealer from whom it was purchased.

This warranty gives you specific legal rights, and you may have other rights, which vary from state to state. Some states do not allow the exclusion of limitation of special, incidental or consequential damages, or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

The logo for Hako Australia Pty Ltd, featuring the word "Hako" in a bold, orange, sans-serif font. The letter "H" is stylized with a horizontal bar extending to the right, and the letter "o" has a horizontal bar extending to the left, creating a sense of motion or a stylized "H" shape.

Hako Australia Pty Ltd.

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Rev - 0 09/10