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Operating Instructions

GECKO STAR 2.0 115V, Wood Floor Sanding Edger
GECKO STAR 2.0 (R) 115V, Wood Floor Sanding Edger

USA
USA

#67301
#83668



Instructions #84114



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1. Introduction

Dear Customer,

Thank you for your purchase of the the PALLMANN GECKO STAR 2.0 sanding edger, the perfect choice for quality and performance. The PALLMANN GECKO STAR 2.0 combines high performance sanding with the ease and comfort of user operation.

This operating manual contains information which is important for the operation of the GECKO STAR 2.0 sanding edger



Caution!

Please read this operating manual carefully, and ensure that all users read this manual before operating the machine.

Observing the safety instructions protects against situations that may endanger health and safety and helps to prevent improper use of the machine.

Before using the tool, familiarise yourself with its operation.

Once you have started to use it, it is too late!

Do not allow persons to operate this machine without the proper training or skill.

1.1 Legend

Important instructions relating to safety and damage prevention are indicated in this operating manual by the following symbols.



General hazard warning



Warning of hazardous electrical voltage



Warning of explosion



Hearing protection required



Dust mask protection required



Read the manual/instructions



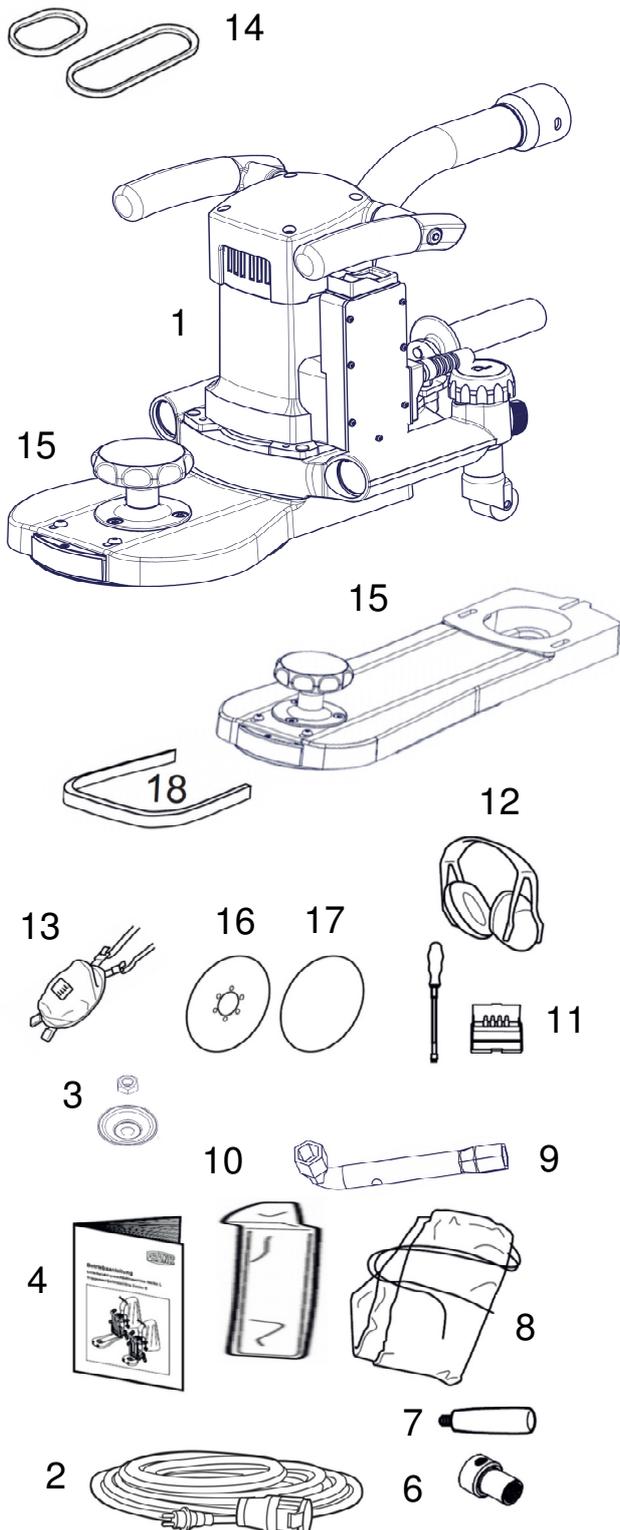
Hazardous waste



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2. Scope of delivery

The following are contained in the scope of delivery:



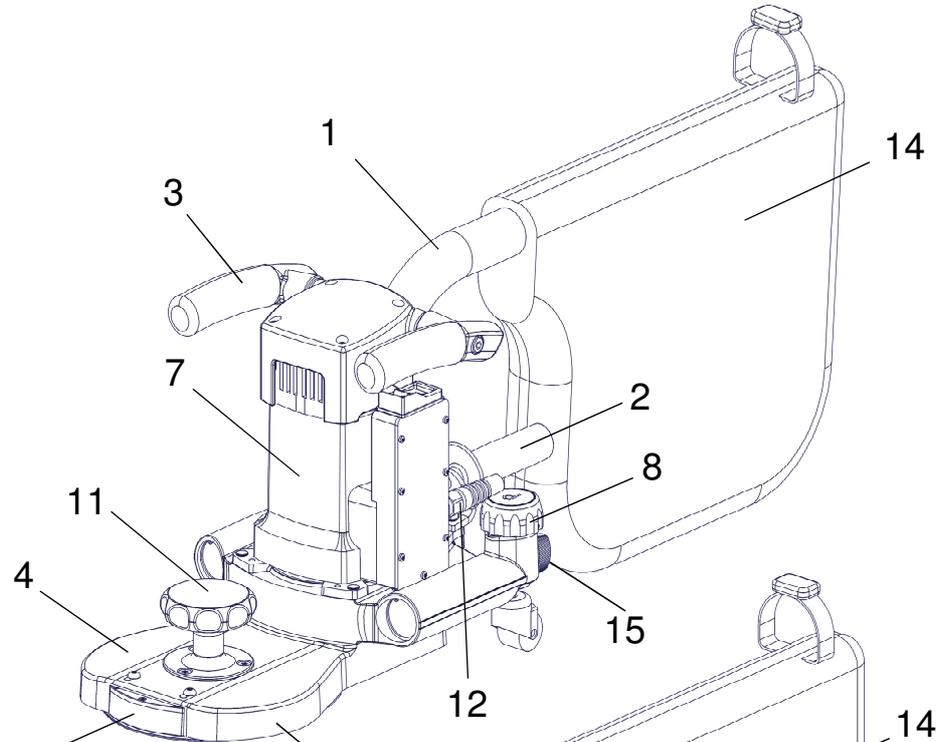
- 1 GECKO STAR 2.0 / 7" edge sander
- 2 Cord
- 3 Sandpaper mounting nut
- 4 Operating manual
- 5 Short dust tube
- 6 Adapter for dust containment
- 7 Rear handle, screw-in
- 8 Dust Bag
- 9 Socket wrench
- 10 Tool Bag
- 11 Screwdriver with bit socket
Bit box with TX10, 20, 30, 40
- 12 Hearing protection
- 13 Dust Mask
- 14 Additional drive belt
- 15 Short Sanding attachment
- 15 Long sanding attachment (optional)
- 16 Spare fasteners
- 17 Additional sanding pad
- 18 Additional hook-and-loop sanding pad



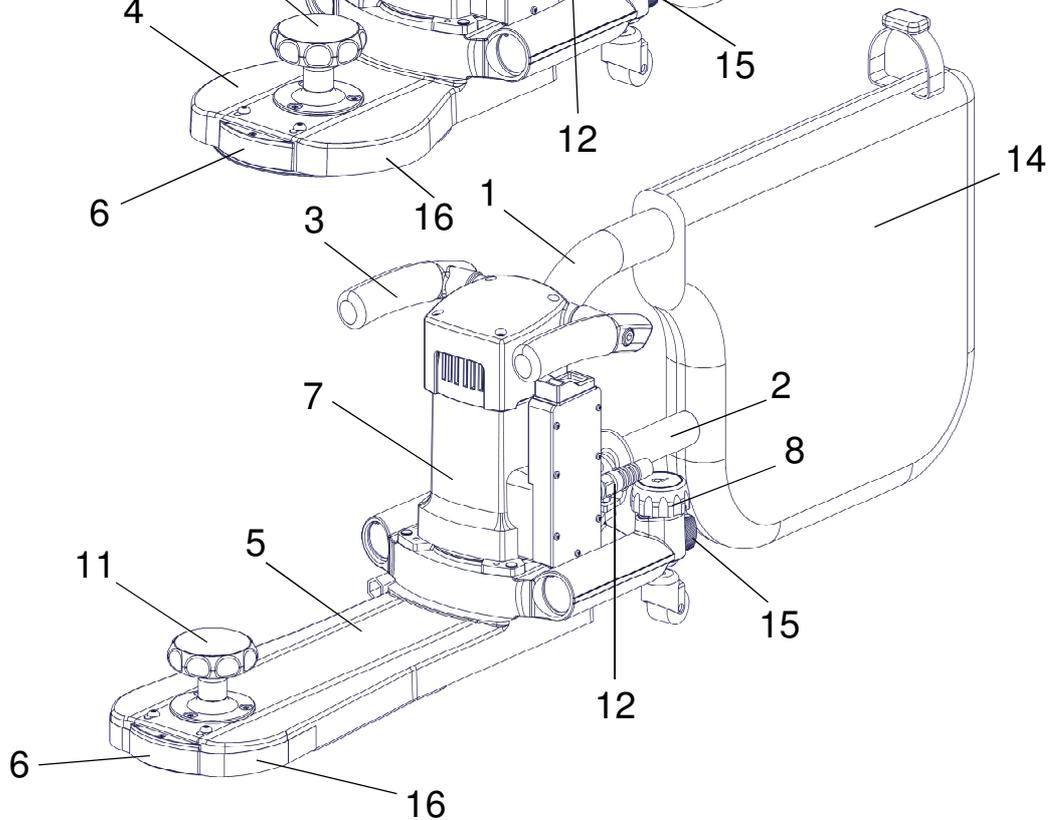
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3. Description of the GECKO STAR 2.0 and GECKO STAR 2.0 (R) - 7" sander

Gecko Star 2.0



Gecko Star 2.0 (R)



3.1 Important parts

- | | | | |
|---|---------------------------|----|---------------------------------------|
| 1 | Dust tube | 9 | Locking pin for dust tube (not shown) |
| 2 | Rear handle | 10 | Drive belt (not shown) |
| 3 | Top handle | 11 | Front handle |
| 4 | Sanding attachment, short | 12 | Cord |
| 5 | Sanding attachment, long | 13 | Switch |
| 6 | Sliding wall protection | 14 | Dust bag |
| 7 | Motor | 15 | Set screw |
| 8 | Wheel adjustment | 16 | Hook-and-loop tape |



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3.2 Technical specifications

Supply voltage, USA	115 V, 60Hz
Power consumption.....	2.4HP
Sanding disc speed.....	4200 rpm
Sanding plate Ø.....	7"
Vacuum port	1 1/2" / 1 3/8"
Weight.....	24 lbs
Wheel height adjustment.....	1/2" Vertical Adjust

3.3 Safety devices

Restart protection

If the power supply is interrupted while the GECKO STAR 2.0 is running, i.e.: main power cord is disconnected, the electronic restart protection function ensures that the machine will not start up by itself when power is resumed

Over-temperature shutdown

The over-temperature shutdown function protects the motor from overheating and damage occurring to the motor. The machine will switch off if a critical temperature is reached. The machine can be restarted after a cooling down period of a few minutes.

Carbon brush protection

The GECKO STAR 2.0 is equipped with a turn-off carbon brush protection. If the carbon brushes have reached their wear limit, the machine switches off and can only be turned on by the switch. Damage will occur to the motor if operation of the machine is continued. Bring your machine to a service center to replace the carbon brushes after machine has switched off due to protection.

4. Intended use

The sanding edger GECKO STAR 2.0 is suitable for dry sanding of stairs, landings, and floors. Other use is not permitted.



Caution!
Never carry out wet sanding operations with the GECKO STAR 2.0
(Fatal hazard from electrical shock)!

5. Safety

5.1 General information

The following safety instructions guard against injury and prevent improper use of the tool. All users of this tool and persons involved in its assembly, maintenance or repair must have read and understood the contents of this operating manual before beginning their work. Particular attention should be paid to the sections featuring additional symbols.

5.2 Improper use

The GECKO STAR 2.0 is not suitable for brushing, polishing, or any similar purpose. Failure to adhere to this can cause serious personal injury and damage to property.



5.3 Original parts and accessories

Original parts and accessories have been especially designed for the GECKO STAR 2.0. Failure to use original parts and accessories will impact the safety and integrity of the sanding machine.

5.4 Safety instructions for before and during operation

Before use, always check all parts of the tool for damage and wear. Parts which are placed under severe stress, such as the sanding plate, are particularly susceptible to breaking off and cracks. The damaged parts must be replaced immediately with new ones.



Caution

All parts which are subjected to excessive wear, such as sanding plates, belts, etc. are not covered by any kind of warranty.

During operation, never set the tool down while the sanding plate is running. The GECKO STAR 2.0 may only be placed down when it has come to a complete stop.



Caution!

Never sand towards the cord. If you sand over the electrical cord, there is fatal risk of electrical shock.

5.5 Approved clothing



Caution!

Wear suitable workwear! Do not wear loose clothing while operating or working on the GECKO STAR 2.0. Loose clothing may be caught by moving parts.

5.6 Noise emissions from the tool

The following emissions values have been measured for the GECKO STAR 2.0 edge sander in accordance with EN 60745:

Sound pressure level (Lpa)	Idling	90.9 dB	Under load	92.6 dB
Sound power level (LWA)	Idling	101.9 dB	Under load	103.6 dB
Measuring inaccuracy:	+ / -		1.5 dB	

The noise generated by using the tool is dependent on various factors. Local conditions, such as the size of the room and the properties of the floor surface have an impact on noise emissions.



Caution! Wear hearing protection!! The levels of noise generated by this machine are damaging to the operators hearing. While operating the tool, you must wear hearing protection. Hearing protection is provided in the tool bag



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5.7 Hand/arm vibration

The following vibration levels have been measured, in accordance with EN 60745:

Long sanding plate	Vibration emissions value:	ah/DS	< 8.8 m/s ²
	Measuring inaccuracy:	K	= 1.5 m/s ²
Short sanding plate	Vibration emissions value:	ah/DS	< 8.8 m/s ²
	Measuring inaccuracy:	K	= 1.5 m/s ²

The vibration level stated corresponds with the principal use of the electrical tool. If the machine is used for other purposes, with other insertion tools or if the maintenance is inadequate then the vibration level may be different. This can increase the vibration loading throughout the complete working period.

5.8 Safety instructions for handling dust



Caution!

Extremely fine sanding dust! Wear a dust mask! Always wear a dust mask when sanding wood floors. Use the dust mask which is supplied in the tool bag.

Saw dust is created while using the machine as intended for sanding of wood floors. Wood floors that have waterproofing agents, solvents, or waterborne coatings can create dust that may cause allergic reactions. Sawdust from various species of wood are classified as carcinogens.

The tool has a connection (Ø 1 1/2" / 1 3/8") for an external vacuum cleaner or a dust bag, without which the tool should not be operated (C). Only operate the machine with the separation device intact. (See 6.3)



Caution! Risk of fire and explosion! No smoking!

No sources of ignition may be present in the areas where sanding is taking place!

Ventilate the area properly!

When combined with an ignition source and the oxygen present in the air, sawdust can cause fires and explosions.

Sanding metal parts, e.g. nails, can produce sparks which are blown into the dust container in the vacuum cleaner along with the sawdust. There is a risk of fire even hours later as hot embers can smolder.

Each time the tool is brought to a stop, and when the work is complete, the sanding dust inside the vacuum cleaner must be immediately disposed of in a fireproof, non-combustible container. The container must be sealed with a fireproof, non-combustible cover.

Only store the container in an outdoor location.



Caution!

When disposing of sanding dust, always wear a dust mask



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6. Operation of GECKO STAR 2.0



Caution!

Fatal risk due to power surge! Before start-up, check the power cord for damage ! Never operate the tool with a damaged power cord.

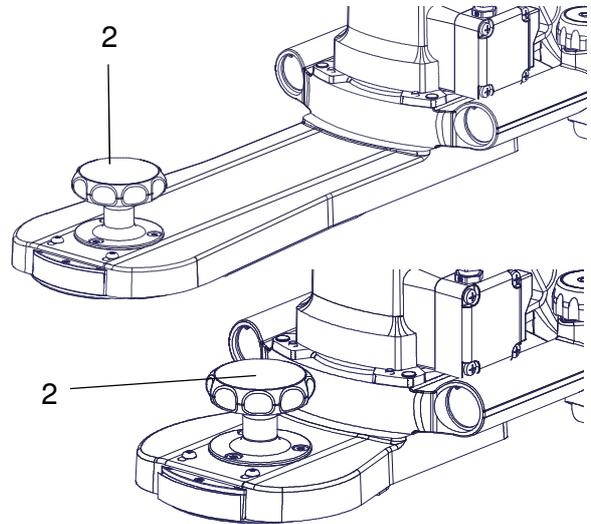
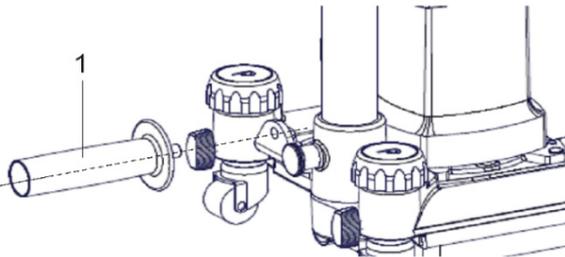


Caution!

Make sure that the GECKO STAR 2.0 is plugged into the proper voltage outlet.

6.1 Installation of the additional handle

1. Screw (1) the additional handle on at the rear of the machine.
2. On the **sanding attachment**, a star knob (2) can be screwed in for improved handling.



Note!

The additional handle allows the machine to be much more easily guided into inaccessible places. The additional handle is included as an accessory.



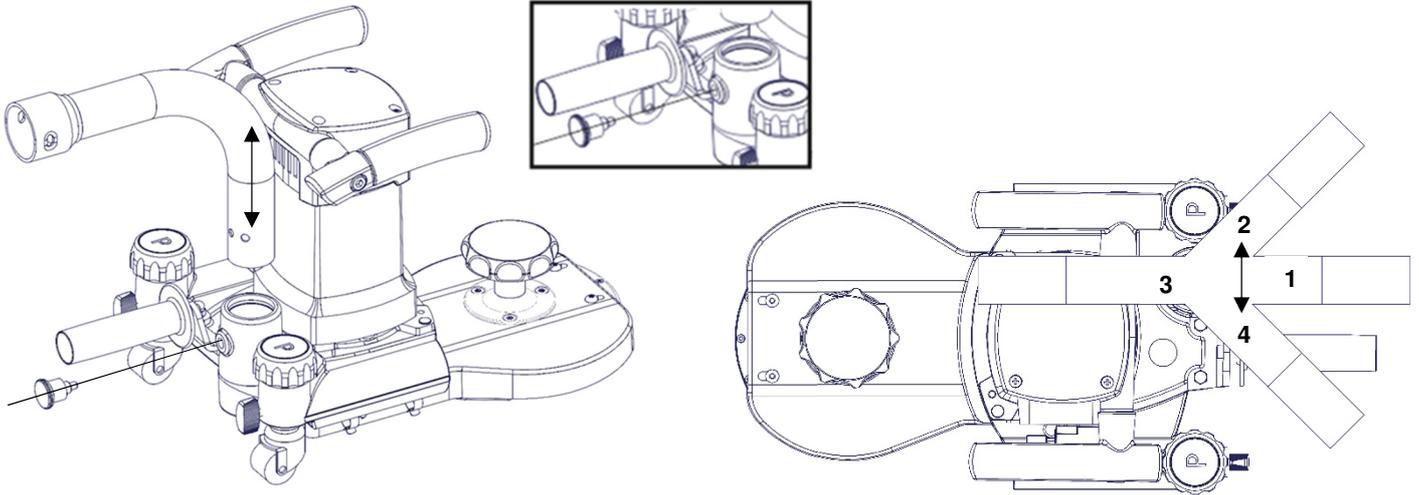
Caution!

Unintentional activation of the machine may present a danger. The machine must be switched off and the main cord unplugged for all work on the machine.



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6.2 Installation of the dust tube



Note!

The GECKO STAR 2.0 is delivered with the dust tube dismantled.



Caution!

Unintentional activation of the machine may present a danger. The machine must be switched off and the main cord unplugged for all work on the machine.



Note!

The dust tube has several drilled holes (2) at the end of the tube. The locking pin (1) latches into these holes and prevent the dust tube turning and loosening.

The dust tube can be fastened in four positions with the locking stud (F)



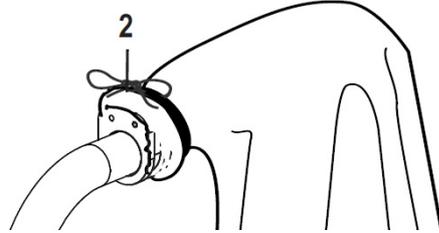
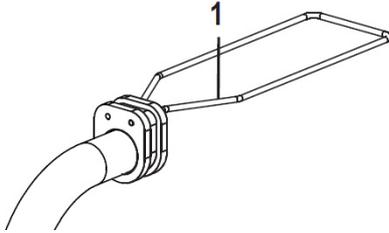
Caution!

Make sure the dust tube and the connection ports are dust free



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6.3 Installation of the dust bag



 **Caution!** Unintentional activation of the machine may present a danger. The machine must be switched off and the main cord unplugged for all work on the machine.

 **Caution!** Use original PALLMANN dust bags exclusively for the GECKO STAR 2.0. The dust bag must be installed firmly on the dust tube before sanding work begins.

Steps:

1. Pull the dust bag over the dustbag hanger (1).
2. Fasten the dust bag in place with the cord (2).
3. Fit the dust bag with the hanger onto the tube.

Check the dust bag prior to start up of the machine.
Switch on the machine and check the dust bag for leaks in the area of the dust tube connection.

6.4 Disposal of sanding dust / Emptying the dust bag

1. Remove loose dust by gently tapping on the dust bag.
2. Carefully open the draw cord on the dust bag and remove the bag.
Keep the dust bag opening closed.
3. Empty the dust bag outdoors into a non-flammable waste bin.

 **Caution! Risk of fire!**
Because of the fire risk, the sanding dust contained in the dust bag must always be disposed of immediately every time the machine stops or when sanding is completed. The sanding dust must be disposed of in a fireproof, non-flammable container. The container must be covered with a fireproof, non-flammable lid. Store the container only outdoors.

Caution!
When a third of the dust bag is filled with sanding dust at the latest, empty the dust bag. Otherwise, the dust absorption performance of the machine will deteriorate. The sanding dust must be disposed of in a fireproof, non-flammable container. The container must be covered with a fireproof, non-flammable lid. Store the container only outdoors.

 **Caution!**
Always wear a dust mask when disposing of the sanding dust. A dust mask is supplied as accessory with the machine.



6.5 Attachment and replacement of hook and loop backed abrasive discs



Caution!

Unintentional activation of the machine may present a danger. The machine must be switched off and the main cord unplugged for all work on the machine.



Caution! Risk of cutting injuries to the hands!

The grinding grains on the sanding discs have sharp edges. Wear protective gloves when changing the sanding discs.

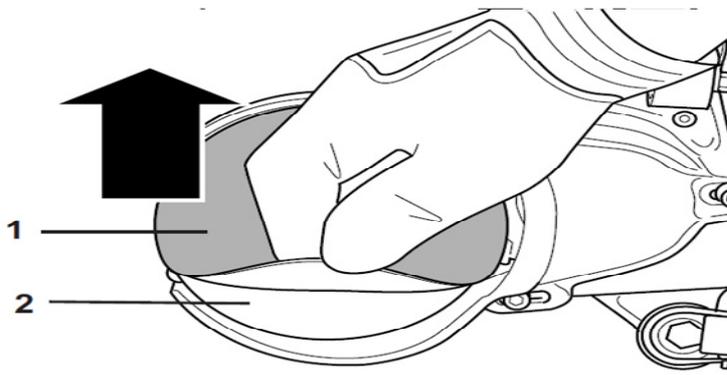


Caution!

The sanding disc must lie centrally on the sanding plate. Ensure that there is an even margin around the edge of the sanding disc.

Steps:

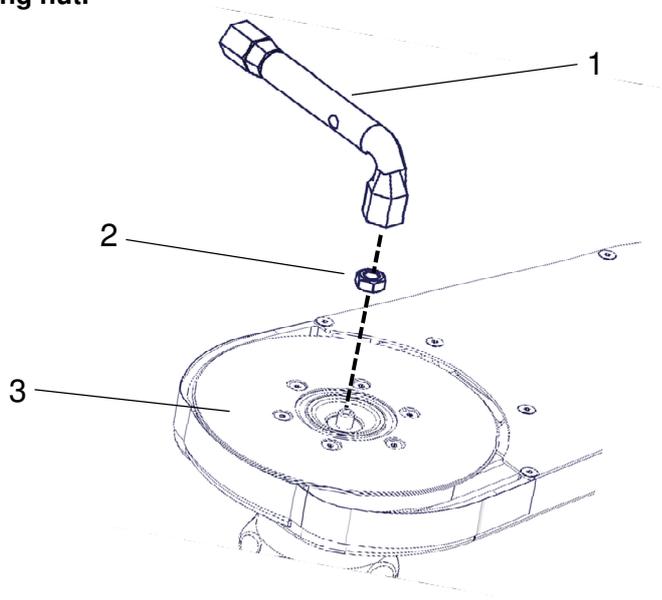
1. Switch the machine off.
2. Unplug cord from the main power supply
3. Lay the machine down on its side.
4. Take the used sanding disc (1) off the sanding plate (2).
5. Place a new hook and loop backed sanding disc centrally on the sanding plate and press the sanding disc on.





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6.6 Attachment and replacement of abrasive discs that are fastened on with the sand paper holding nut.



Caution!

Unintentional activation of the machine may present a danger. The machine must be switched off and the main cord unplugged for all work on the machine.



Caution! Risk of cutting injuries to the hands!

The grinding grains on the sanding discs have sharp edges. Wear protective gloves when changing the sanding discs.

Steps:

1. Switch the machine off.
2. Unplug the cord from the main power supply
3. Lay the machine down on its side.
4. Hold the sanding disc (3) firmly in place.
5. Unscrew the paper holding nut (2) with the socket wrench (1).
6. Remove the worn sanding disc.
7. Place the new sanding disc on and fasten this with the paper holding plate.
Tighten the paper holding plate down with the tube wrench (1).



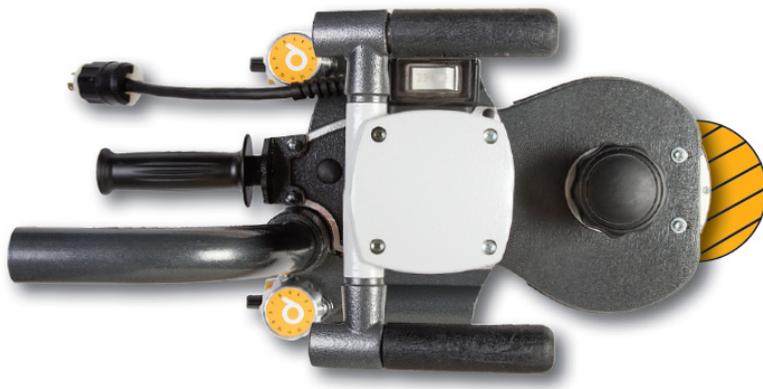
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6.7 WHEEL ADJUSTMENTS GECKO STAR 2.0 or 2.0 (R)

Note!

The best sanding results along with optimum machine control are achieved if the sanding attachment is set up such that approx. 1/3 of the sanding disc is in firm contact with the floor. In order to achieve this angle the height of the wheels can be adjusted. This lifts the machine at the motor side and sets the sanding attachment at an angle.

The pre-set wheel adjustment from the factory is Left Wheel at #8 and Right Wheel at #7. Further information on the wheel setting can be found below.



**Factory setting
cut pattern**

How to change the wheel setting:

1. Loosen black set screw
2. Adjust wheel setting to desired level from 1-12 (see chart below)
3. Tighten black set screw to secure new setting



Sanding Pressure Chart

Fine			Medium						Aggressive		
1	2	3	4	5	6	7	8	9	10	11	12



7. Operation



Caution!

Check the working area for loose boards. Any loose boards must be fastened down before sanding.



Caution! Risk of fire!

If the flooring has nails in it then these must be driven in deep enough before sanding starts to ensure that there is no risk of them being ground during the sanding work. Grinding nails can produce sparks that can cause a fire in the dust bag

7.1 Switching on and off

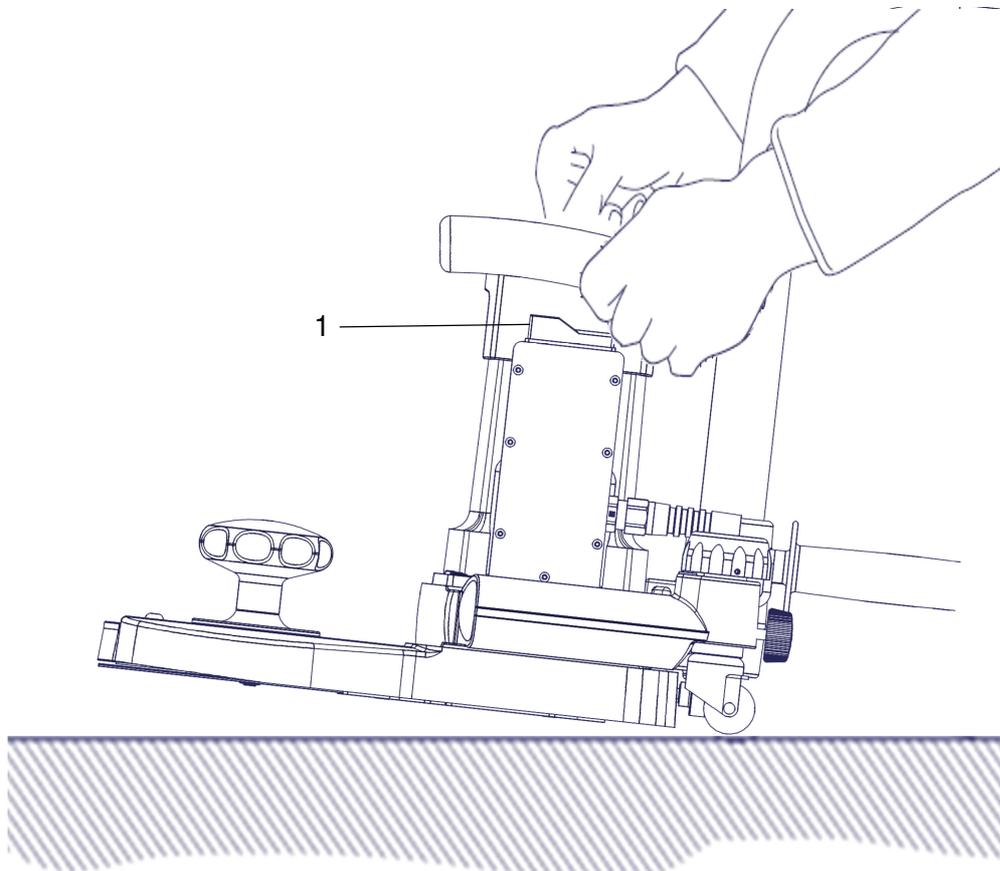


Caution! Risk of injury!

Hold the machine in both hands when switching on. The machine is equipped with a soft-start that increases the speed gradually. Thus there is enough time available to find the correct grip position.

Steps:

1. Tip the GECKO STAR 2.0 rearwards so that the sanding attachment is lifted off the floor.
2. Turn the machine on with the switch located at the top of the machine.





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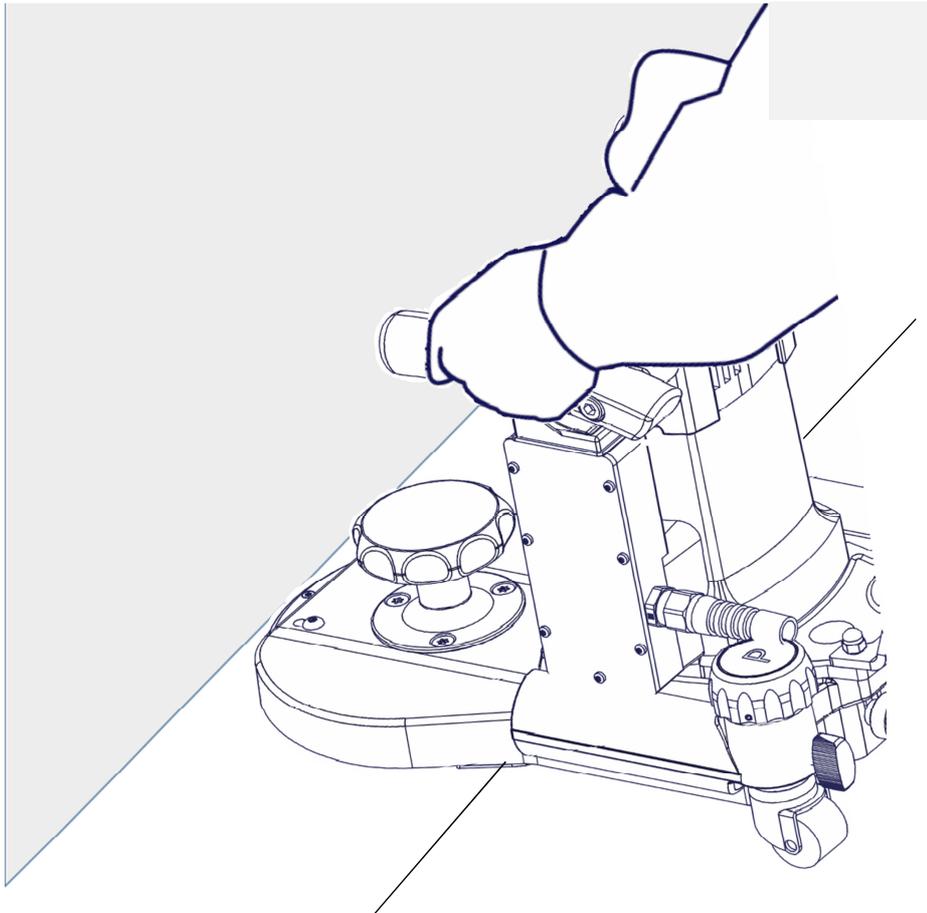
7.2 Sanding technique (N)



Caution!

The GECKO STAR 2.0 operates at a high sanding speed!

If you stay in one place for too long then this can cause dark burn marks on the floor.
Make sure that the GECKO STAR 2.0 is constantly moving when sanding!



In order to achieve optimum results when sanding with the GECKO STAR 2.0, the machine must be moved over the wood floor with a side to side and backwards and forwards motion. The design of the machine will allow for efficient sanding close to the wall.

7.3 Switching off the GECKO STAR 2.0 (M)

Steps:

1. To switch off the machine tilt the machine back so that the sanding attachment is lifted off the floor.
2. Turn the machine off using the switch.
3. Unplug the cord from the main power supply.
4. Dispose of the sanding dust in the dust bag immediately in a fireproof, non-combustible container. Seal the container with a fireproof, non-combustible cover and store it in an outdoor location.



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8 Replacing the sanding attachment



Note!

The GECKO STAR 2.0 (R) can be reconfigured by replacing the long sanding attachment with the short sanding attachment.

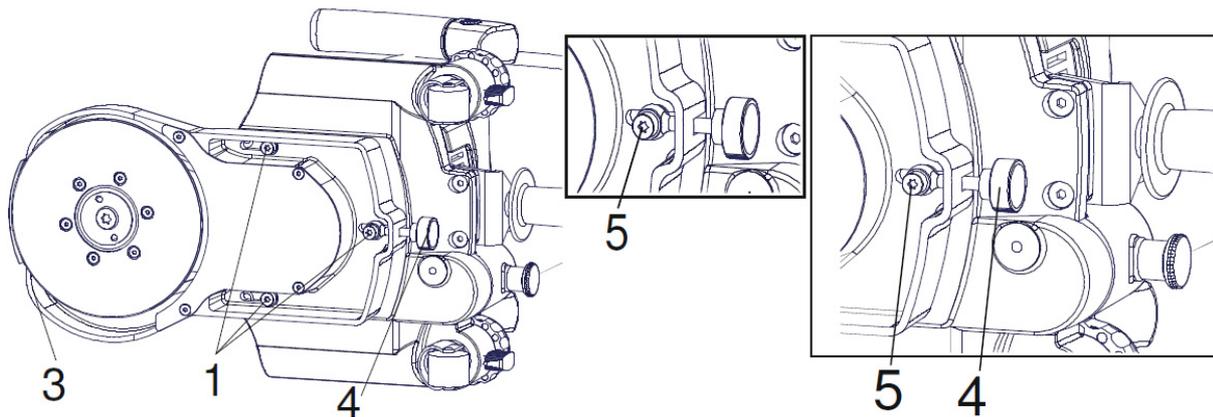


Caution!

Unintentional activation of the machine may present a danger. The machine must be switched off and the main cord unplugged for all work on the machine.

Steps:

1. Switch the machine off
2. Unplug the cord from the main power supply
3. Unscrew screws (1 = TX30) completely
4. Remove the sanding attachment (3)
5. Fit the new sanding attachment and drive belt to the machine
6. Loosely tighten screws, do not over tighten the screws
7. Turn the knurled nut (4) until the drive belt is tight, then tighten screws



9. Maintenance and care

The GECKO STAR 2.0 is largely maintenance-free. The lubrication of the roller bearings and of the gears is sufficient for the lifetime of the tool.

We recommend regularly blowing out the air inlets and outlets with compressed air while the tool is switched off. Failure to perform these maintenance checks could result in loss of dust containment.



Caution!

Poor maintenance can cause the motor to overload more rapidly, and lead to increased vibration and noise emissions.



9.1 Tightening drive belt

Note!

Ensure that the drive belt is sufficiently pre-tensioned to prevent the occurrence of damage. Check the pressure and the drive belt in constant intervals.

Steps:

1. Switch the machine off.
2. Unplug the cord from the main power supply
3. Loosen the screws (1) on the underside of the machine.
Do not unscrew the screws completely.
The sanding attachment must only be able to slide.
4. To tension the drive belt retighten the knurled nut (4).
5. Then tighten the screws at the same time.

9.2 Replacing wear parts

9.2.1 Replacing the drive belt, drive belt wheel, and the drive belt idler wheel.

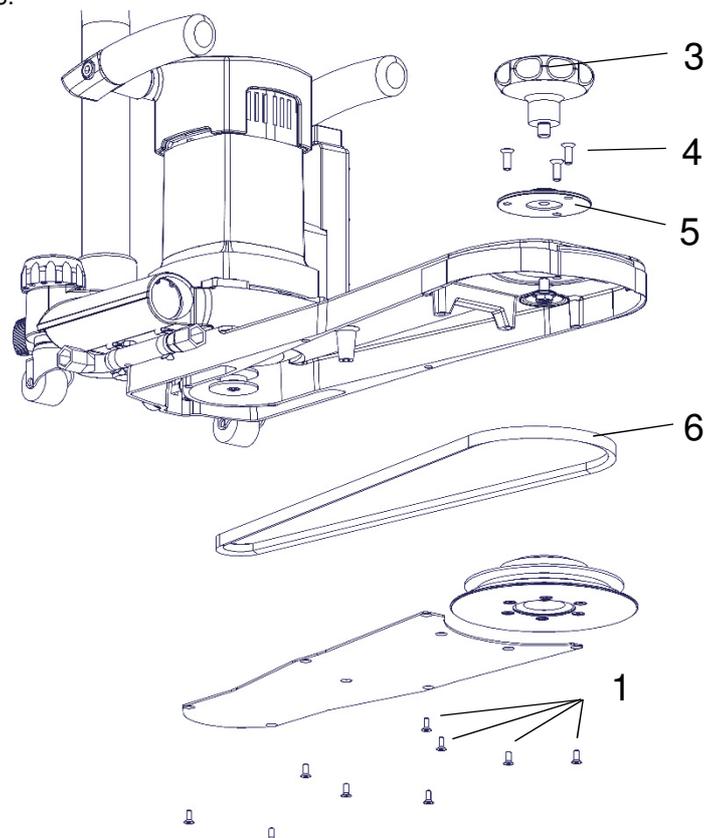


Note!

If the drive belt needs to be replaced often due to wear or damage, then the cause of this could be that the sanding attachment drive pulley is damaged.

Steps:

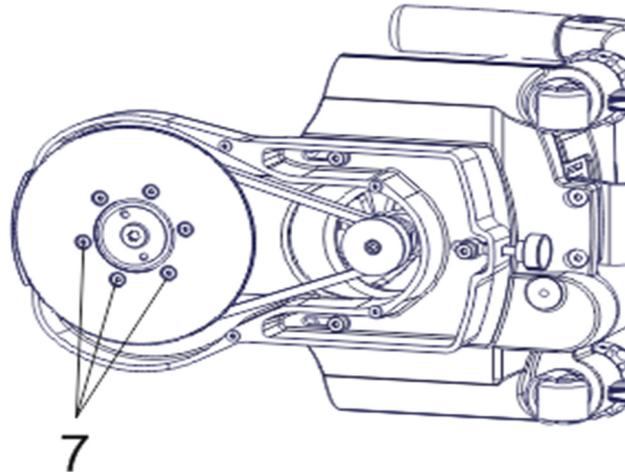
1. Switch the machine off.
2. Unplug the cord from the main power supply.
3. Loosen the screws (1 = TX20) on the drive belt cover plate and lift this off.
4. With machines with the long attachment the additional handle (3) must be unscrewed first. Loosen the screws (4 = TX30) on the bearing cover, and remove the bearing cover (5).
6. Now you can replace the drive belt (6), the belt drive wheel and the belt idler wheel.
7. Tension the drive belt (6) and screw the attachment together again in reverse order as described in point 8.





9.2.2 Replacing the spare fasteners

1. Switch the machine off.
2. Unplug the cord from the main power supply.
3. Loosen the 6 screws (7 = TX20) of the steel disc
4. Pull away the worn fasteners and remove any adhesive residue using a suitable thinning agent.
5. Tighten the replacement fasteners centering them into the proper locations.
6. Reassemble the disc again in reverse order.



10. Disposal



Power tools do not belong with household waste. Please observe the national legislation and recycle the packaging, accessories and tool accordingly.

11. Trouble-shooting

Problem	Possible Cause	Action Step
Machine does not start	Power supply interrupted Defective fuse Cord or plug defective parts replaced Brushes worn out or broken	Have proper repair technician replace faulty parts
Excessive dust produced while sanding	Dust bag is not properly attached Dust bag full	User to check fastening of dust bag Empty dust bag
Sanding ineffective	Sandpaper worn out Speed dropping Retightening V-belt Brushes worn out or broken	Change sandpaper Have proper technician replace faulty parts
Frequent replacement of the V-belt necessary	Belt pulley damaged	Have proper technician replace faulty parts
High level of vibration	Machine wearing parts worn out	Have proper technician replace faulty parts



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GECKO 2.0 or GECKO 2.0 (R) Warranty



To the purchaser of this unit:

Please read the warranty below. When communicating with us regarding your sander, always refer to both the model number and serial number, which appear on the spec plate and shipping carton. To activate your warranty, fill out the Warranty Registration and mail or fax back to UFLOOR Systems, Inc.

Limited Warranty

UFLOOR Systems Inc. warrants to the user-purchaser of this Pallmann® Sanding Machine for a period of one year from date of purchase that any part of the machine (with exceptions noted) that proves to be defective in material or workmanship will be repaired or replaced at our option, at no charge except for shipping to UFLOOR Systems Inc., or to an authorized representative of Pallmann® branded equipment.

THIS WARRANTY DOES NOT COVER DAMAGE RESULTING FROM NEGLIGENCE, MISUSE, ABUSE, ACCIDENTS, MODIFICATIONS, ALTERATION, OR USE WITH INADEQUATE POWER. ALSO NOT COVERED ARE PARTS AND ITEMS SUBJECT TO NORMAL WEAR AND TEAR, SUCH AS DRUMS, BELTS, WHEELS, DUST BAGS, BEARINGS, ELECTRICAL COMPONENTS, POWER CABLES, OR CONNECTORS except if defective at time of original purchase, which is to be determined by an authorized representative of UFLOOR Systems, Inc. owner of Pallmann® branded equipment.

THERE ARE NO OTHER WARRANTIES EXPRESS OR IMPLIED. Detach, fill out, and return the form below promptly to ensure a valid warranty. This warranty will be VALID ONLY if registered by the user-purchaser within 30 days of purchase or receipt of the machine.

GECKO 2.0 or GECKO 2.0 (R) Warranty Registration

Please Print

NAME _____ PHONE _____

COMPANY _____ TITLE _____

STREET _____ CITY _____ STATE _____

SERIAL # (located on motor) _____ CHASSIS # _____

DATE OF PURCHASE _____

COMPANY PURCHASED FROM _____ CITY _____ STATE _____

Mail, Fax, or E-mail this completed form to UFLOOR Systems Inc.,
14509 E. 33rd Place, Unit G, Aurora, CO 80011
Fax 720-374-2113 • info@pallmann.us

