Redexim

Turf-Tidy 5000



USER MANUAL

Translation of the original user manual

Version: UM141.180.013EN-2605

Applicable to: A141.180.013 Turf-Tidy 5000

SCAN FOR MANUALS & PRODUCT REGISTRATION

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EU - DECLARATION OF CONFORMITY

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declare that this "EU DECLARATION OF CONFORMITY" has been issued under our full responsibility and applies to the following product:

TURF-TIDY 5000 WITH MACHINE NUMBER AS INDICATED ON THE MACHINE AND IN THIS MANUAL,

to which this declaration relates, complies with the provisions of:
2006/42/EC Machinery Directive

and the standards:

- **ISO 12100:2010** Safety of machinery - General principles for design - Risk assessment and risk reduction
- **ISO 13857:2019** Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs
- **ISO 4254-12:2012** Agricultural machinery - Safety - Part 12: Rotary disc and drum mowers and flail mowers

Zeist, November 18, 2025

C.H.G. de Bree
Redexim B.V.

UK - DECLARATION OF CONFORMITY

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declare that this "UK DECLARATION OF CONFORMITY" has been issued under our sole responsibility and applies to the following product:

TURF-TIDY 5000 WITH MACHINE NUMBER AS INDICATED ON THE MACHINE AND IN THIS MANUAL,

to which this declaration relates, complies with the provisions of:
S.I. 2008 No. 1597 HEALTH AND SAFETY The Supply of Machinery (Safety) Regulations 2008
and with the standards:

- **ISO 12100:2010** Safety of machinery - General principles for design - Risk assessment and risk reduction
- **ISO 13857:2019** Safety of machinery - Safety distances to prevent hazard zones being reached by upper and lower limbs
- **ISO 4254-12:2012** Agricultural machinery - Safety - Part 12: Rotary disc and drum mowers and flail mowers

Zeist, November 18, 2025

C.H.G. de Bree

FOREWORD

Congratulations on the purchase of your Turf-Tidy 5000. For safe and sustainable operation of this machine, it is necessary to read and understand this user manual. Without full knowledge of the contents, it is not possible to work safely with this machine.

This machine is not self-propelled. It is the responsibility of the user to use the correct tractor or other towing vehicle. The user must check the combination of towing vehicle and machine for various aspects, such as noise level and safety risk. In addition, the user instructions for the vehicle and parts to be used must be observed.

All information and technical specifications are the most recent at the time of publication of this document. Design specifications are subject to change without notice.

In this user manual, the term “user” refers to any person operating the machine described herein.

If you have any questions or uncertainties about this manual or the machine in question, please contact your point of sale or dealer.

This document is a translation of the original user manual. Upon request, the original user manual is available in Dutch.

WARRANTY CONDITIONS

The warranty applicable to this product is described in the "General Terms and Conditions of Sale and Warranty", under Article 12 "Warranties", and is available on the Redexim website. You can use the QR code or URL below.

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1 SAFETY INSTRUCTIONS

This machine is designed for safe use. This is only possible if the safety instructions described in this manual are followed entirely.

Read and understand the user manual before you start using this machine. Failure to use the machine as described in the manual may result in injury and/or damage to the machine.

This user manual contains instructions that are numbered in sequence. These instructions must be followed in sequence.

The following signs are used in the manual:

 Safety instructions

 Tips or notes

1.1 User obligations

The machine is intended exclusively for use on cultivated fields. Any other use is considered improper use. The manufacturer accepts no responsibility for any damage resulting from this, and all risks associated with this are entirely at the user's expense.

All persons designated by the owner to operate, maintain, or repair the machine must have read and fully understood the operating manual, especially the chapter on safety regulations.

Any changes to the machine that adversely affect safety must be rectified immediately.

Before using the machine, the user is obliged to check it for visible damage and defects.

For safety reasons, no modifications or additions to the machine (except for modifications approved by the manufacturer) are permitted. If changes have been made to the machine, the current CE/UKCA marking becomes invalid and a new CE/UKCA marking must be obtained.

Judicious use also includes following the manufacturer's instructions for use, maintenance, and repair.

The user is responsible for ensuring the machine and towing vehicle can be safely combined and they meet the requirements described in the technical data (see chapter 2). The combination must be assessed for noise, safety, risk, and ease of use. If the combination does not meet these requirements, do not install or use the machine until a valid combination is achieved. Redexim is not liable for the use of invalid combinations.

Wear appropriate clothing when working with the machine. Wear certified safety shoes, long pants, tie up long hair, and do not wear loose-fitting clothing.

In addition to the instructions in this user manual, the generally applicable safety and health regulations must also be followed.

When using the machine on public roads, the relevant traffic regulations apply.

When transporting the machine over public roads, the hopper should be empty.

1.2 Maintenance, repair, and adjustment

Keep a record of repairs.

If the machine is used, maintained, or repaired by unqualified persons, there is a risk of injury to both the user and third parties. This must be avoided!

For safety reasons, use only original Redexim parts for maintenance or repairs.

Repair work on the machine may only be carried out by authorized technical personnel.

During maintenance, adjustment, and repairs, it is necessary to secure the machine against rolling and/or sliding away.

Used oil/grease is harmful to the environment; dispose of it in accordance with local regulations.

1.3 Use of the machine

Connect the machine to the towing vehicle in accordance with the specifications below.

Be aware of the risk of injury!

Do not operate the machine if the protective covers and safety stickers are missing.

Never crawl under the machine. If necessary, tilt the machine safely to work on the underside.

Inspect hydraulic lines regularly, where fitted. Replace them immediately if you detect signs of damage or wear.

All machine operators must be fully familiar with its functions and controls.

Before every use, do the following:

- Inspect the machine for loose bolts, nuts, or other components and secure them, if necessary.
- Ensure you have a clear and unobstructed view of both the immediate and surrounding area.

2 TECHNICAL DATA

Specification	Turf-Tidy 5000
Recommended vehicle	45 HP tractor
Tractor connection	Towing ring and Pin (DIN eye)
Tow hitch pressure	750-1260 kg (1.653-2.756 lbs)
Vehicle hydraulics	1 double acting valve 1 single acting valve
Wheel size	26 x 12
Wheel speed rate	40 km/h
Tire pressure	2.4 bar (34.81 psi)
Working width	1.8 m (5.9 ft)
Working depth (Scarifying)	0-30 mm (0-1.2")
Working height (Mowing)	0-80 mm (0-3.15")
Working speed (Scarifying)	1-5 km/h (0.6-6 mph)
Working speed (Mowing)	1-2 km/h (0.6-1.5 mph)
Working speed (Leaf collecting)	1-8 km/h (0.6-5 mph)
Capacity (Scarifying)	Max. 7500 m^2/h (80729 ft^2/h)
Capacity (Mowing)	Max. 3000 m^2/h (32292 ft^2/h)
Capacity (Leaf collecting)	Max. 12000 m^2/h (129167 ft^2/h)
PTO speed	Max. 540 RPM (CCW) Sweeping up to 300 RPM
Distance between the blades	40 mm (1.6") / 20 mm (0.8")
Weight	2550 kg (5620 lbs)
Hopper capacity	5 m^3 (6.54 cu yd)
Dimensions (LxWxH)	1.85 x 1.88 x 1.57 m (6 x 6.16 x 5.15 ft)
Oil gearbox	GL5 80W90 (1.7 L / 1.8 qts.)
Grease bearings	EP2
Standard blades	Scarify blade 2 mm (0.078") with carbide tip (48 pieces)
Optional blades	- Scarify blade 3 mm (0.118") with carbide tip (48 pieces) - Flail blade (48 pieces) - Back-to-back flail blade (96 pieces)

	- Paddle flail blade
Machine options	- Caster wheels - Brush rotor - Double lip drawbar

Table 1

3 GENERAL DESCRIPTION

The Turf-Tidy 5000 is a combination machine for harrowing, mowing, and sweeping surfaces.

4 SAFETY STICKERS

The safety stickers are affixed to the machine. These safety stickers must always be clearly visible and legible. If damaged, the stickers must be replaced (*Fig. 1*).



Fig. 1

 921.280.402	- During maintenance, adjustment, and repairs, the engine of the towing vehicle and the PTO must always be turned OFF. Block the assembly to prevent it from rolling away/sliding. - Maintain a minimum distance of 4 m from the machine during operation, except for the operator in the towing vehicle. - Keep all persons away from the danger zone while the machine is operating. Moving parts can cause injury.
 900.280.402	Users must read and understand the user manual before operating the machine.
 941.280.000	The machine may only be operated up to the maximum PTO-speed.
 A0002440	During maintenance, adjustment, and repairs on the inside of the machine, the hydraulic cylinders **MUST** be blocked and locked with the safety locks.
 A0002438	Be aware of the crushing hazard. Always lock the opened hopper to prevent unintended movements.

5 INITIAL INSTALLATION

Prepare the machine for use as follows (*Fig. 2-1* and *2-2)*:

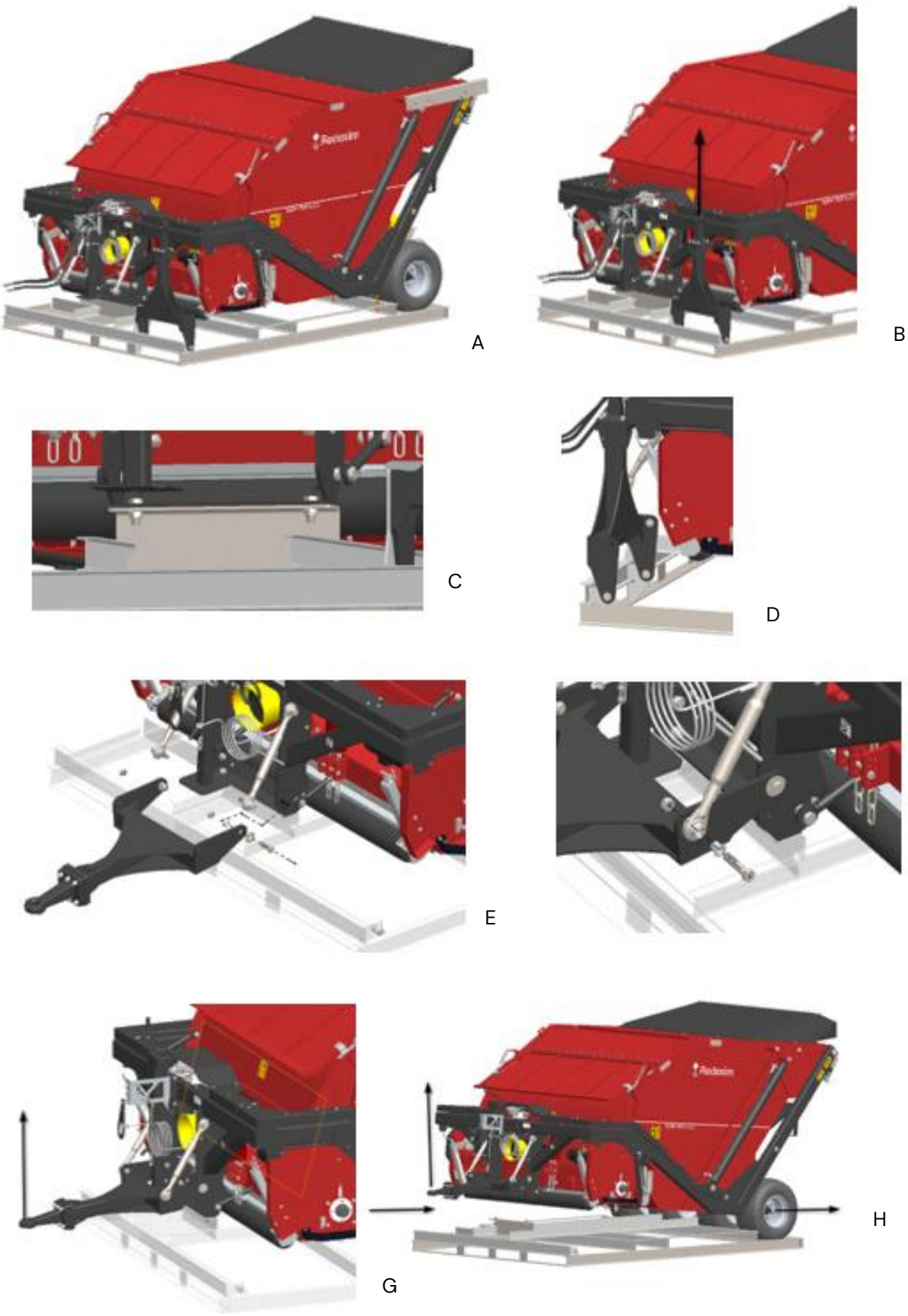


Fig. 2-1



Fig. 2-2

⚠ **Ensure the cable/crane can lift at least twice the tow hitch pressure of the machine. For the tow hitch pressure information, see chapter 2, Technical Data.**

⚠ **Keep a safe distance. The machine may turn or shift during lifting.**

⚠ **Never crawl under the machine.**

⚠ **Be aware that the profiles of the transport frame can be sharp. Take appropriate safety measures.**

1. Make sure the pallet (4) supporting the machine is level (A). Make sure there are at least 5 meters of clear space behind the pallet.
2. Release and remove the straps (2) for the transportation wheels (3).
3. Remove the transportation wheels (3) by removing the R-clips, tube and the wheels themselves. These are to be disposed of with the transportation frame.
4. Release the two straps (5) securing the PTO bracket (6) and remove the PTO (7) and bracket (6) from your working area until the machine is connected to the tractor.
5. Unscrew the bolts that hold the drawbar (1) (D) in place and lift the drawbar from the pallet (D).
6. Unscrew the bolts that hold the machine down (C) on the pallet but keep the bolts in place.
7. Reattach the crane with the two straps to the drawbar. Then, lift the drawbar horizontally and move it into position for attachment to the machine (E).
8. Attach the drawbar to the desired connection holes, as specified in the tractor's connection requirements. There are two holes available for the lower drawbar attachment, and two holes are available for the upper drawbar attachment. The lower drawbar attachment is recommended.
9. Insert the bolts through the frame. Make sure the bushes are placed between the frame and the drawbar, so that the drawbar can rotate freely (E).

10. Connect the adjustable links by using bolts and bushes. For these connections, place the bushes on the outside (F).
11. Tighten all bolts and fasteners and apply the correct torque.
12. If required, install the double-lip kit onto the drawbar (see also *Fig. 3*).
13. Attach the crane to the DIN-eye, ensuring it is secured to support the drawbar load (G).
14. Lift the front of the machine at least 50 cm (20 in") to ensure sufficient clearance when unloading it from the pallet.
15. Move the crane toward the rear of the pallet until the machine begins to roll slowly. Continue moving carefully until the machine completely rolls off the pallet and the jack stand is positioned behind the pallet (H).
16. Lower the crane gradually, until the machine is level.
17. Place the machine onto the jack stand, as described in chapter 6.1.
18. Remove the crane only after the machine is fully stable and securely supported.
19. Remove the transport protection (9 and 10) from the machine.
20. Remove the pallet, PTO bracket (6), the transportation wheels (3) and the remaining transport protection (9 and 10). Dispose of all materials in accordance with the local regulations.
21. Set the dust cover (11) upright and secure the bolts.
22. Attach the machine to the tractor drawbar connection, as specified in the tractor's user manual.
23. Measure the required PTO shaft length as specified in its own user manual. If necessary, change accordingly.
24. Connect the hydraulic hoses as follows (see *Fig. 4* – 13, 14):
    a. as a pair - for lifting the hopper (13)
    b. as single-operating line - for lifting the rotor unit (14)
25. Place the rope connected to the transport hooks of the frame inside the tractor cabin.
26. Place the rear-camera monitor inside the tractor cabin.
27. Check the following points:

⚠ **Make sure the machine and tractor are on a level surface.**

⚠ **Beware of overhead objects.**

Checkpoints
Secure loose parts properly.
Presence and legibility of safety stickers. Replace them if damaged or missing.
Check the grease points. If necessary, apply grease.
Check the oil level in the gearbox and top up the oil, if necessary.
Check the V-belt tension.
Connect the machine to the tractor and let the machine run for 5 minutes. Watch and listen for unusual movements and noises.
Check that the machine hydraulics function properly, as follows: • Lower and lift the rotor unit. • Lift and tilt the hopper completely.

6 CONNECTING AND DISCONNECTING THE MACHINE

You must proceed with caution when connecting and disconnecting the machine. Follow the instructions below:

⚠ **Connecting the tractor to the lower tow hitch connection is recommended.**

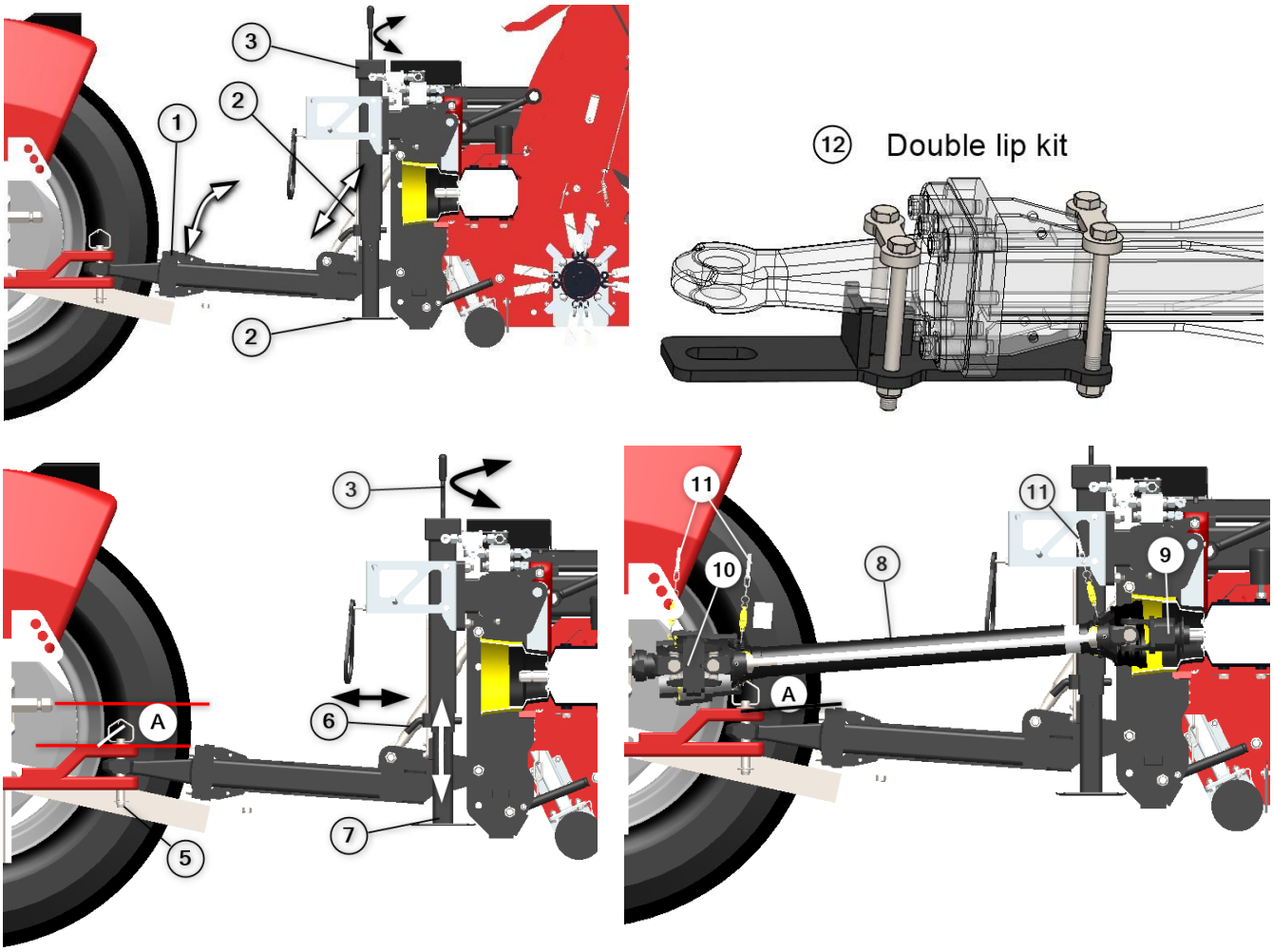


Fig. 3

6.1 Connecting the machine

Before connecting the machine, check the following points:

- Check that the machine is not damaged and safe to connect and use.

⚠ **Check especially the PTO and hydraulic hoses for damage.**

- Check for loose parts and tighten them, if necessary.
- Check that all safety stickers are present, undamaged, and legible on the machine.
  Never use the machine with damaged or illegible stickers.
- Check if there is enough space available between the connection and the PTO (A) to connect the PTO and lower the rotor unit into working position (*Fig. 3*).
- Make sure to use a pin that can be properly secured and does not interfere with the height (A).

After reversing the tractor up to near the drawbar, do the following (*Fig. 3*):

1. Adjust the drawbar angle and drawbar height (1) until it levels up with the required tractor connection by either:

    a. Adjusting the jack stand height (2), by rotating the jack stand lever (3).
    b. Adjusting the jack stand angle, by rotating the adjustable links (4) to retract or extend.

    ⚠ **Always secure the links with the fixation lips.**

2. Reverse the tractor until the holes of the drawbar and the tow connection line up. Then, insert the connection pin (5) into the hole. If the tractor's connection has only a single connection bar, use the double lip kit (12).

⚠ **Ensure the tractor and machine cannot move during coupling.**

⚠ **Before connecting the machine, make sure to turn OFF the tractor engine and remove the key.**

⚠ **Always secure the connection pin against unwanted removal (5).**

3. Lower the jack stand height by rotating the lever (3) until the drawbar fully rests on the coupling and the jack stand foot (7) is above ground.
4. Remove the jack stand pin (6) and lift the foot until it reaches the highest position hole. Then, place the jack stand pin (6) back onto the hole.
5. Rotate, if needed, the jack stand lever (3) until the jack stand foot is in the required position.
6. Connect the PTO (8) to the tractor with the safety device (9) on the machine side, the wide angle (10) on the tractor side, and all chains of the guards connected (11) to the machine and tractor.
7. Refer to the PTO user manual to verify the correct PTO length. Always store the PTO manual with the present user manual.

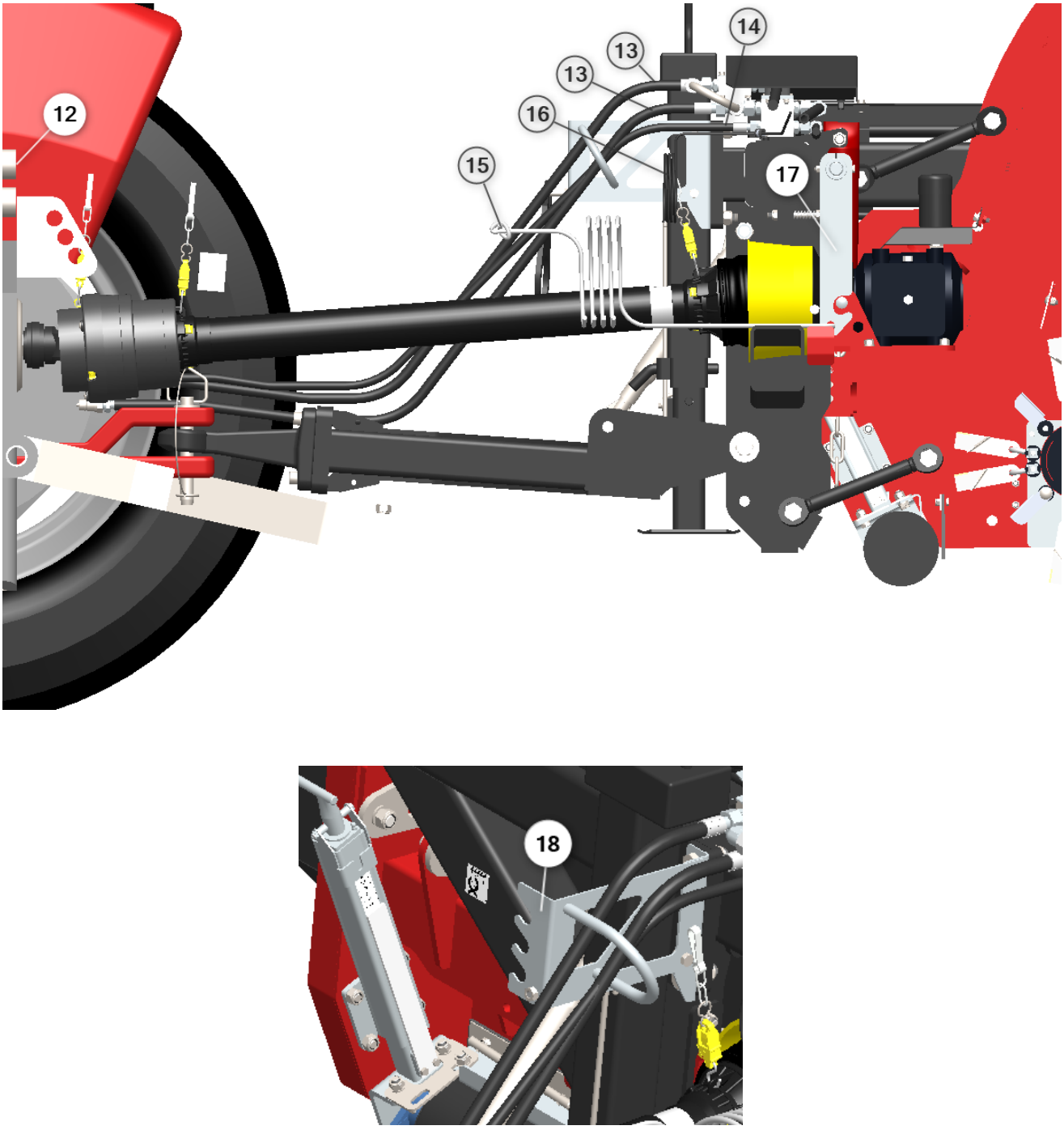


Fig. 4

8. Connect the hydraulic hoses (13) of the hopper as a pair to the tractor's hydraulic connections (12) and the hydraulic hose of the rotor unit (14) in another connection *(Fig. 4)*.
9. Install the rear-camera monitor mount in the tractor cabin. Place the monitor in the mount. Connect the camera wire (16) to the monitor and connect the 12V power cable to the tractor's 12V socket.
10. Connect the rope (15) that operates the transport safety hooks of the rotor unit (17) into the tractor cabin. Make sure the rope is not pulling the hooks.
11. Use the notches in the bracket (18) to store the hydraulic hoses (*Fig. 4*).

6.2 Disconnecting the machine

To disconnect the machine, follow the steps below (*Fig. 3 and Fig. 4*):

1. Drive to the location where the machine is to be disconnected.
2. Lift the rotor until it sits in the transport hooks (17).

⚠ **Ensure the storage location has a stable surface that can support the machine and the machine cannot slide.**

⚠ **Ensure the machine and tractor cannot move during uncoupling.**

⚠ **Before stepping off the tractor, make sure to turn OFF the tractor engine and remove the key.**

3. Depressurize the hydraulic system, if needed.
4. Disconnect the rear-camera cable (16) and the 12V power cable from the tractor cabin (*Fig. 4*).
5. Disconnect the rope (15) that operates the transport safety hooks of the rotor unit (17) from the tractor's cabin. Make sure the rope is not pulling the hooks.
6. Remove the hydraulic hoses from the tractor's connectors (12) and place them into the storage bracket (18).
7. Place the cables and the rope onto the cable storage (*Fig. 4-1*).

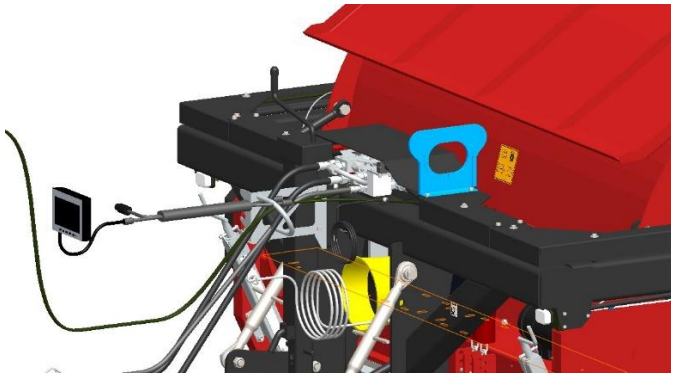


Fig. 4-1

8. Disconnect the PTO's chains (11) from the tractor.
9. Disconnect the PTO (8) from the tractor.
10. Place the PTO in the PTO bracket.
11. Remove the jack stand pin (6) and lower the foot until it reaches the lowest position hole. Then, place the pin back onto the hole.
12. Rotate the jack stand lever (3) until the machine is no longer resting on the tractor's connection. Rotate further until the drawbar is between the connection lips or the connection lip is between the drawbar and the double lip.

⚠ **Check again that the machine is stable on the ground.**

13. Remove the connection pin (5). If the pin can't be removed easily, the machine has shifted and the location may not be stable enough.

7 TRANSPORT

The user is responsible for transporting the machine on public roads. Check the national traffic regulations before transporting the machine. Given the weight of the machine, it is not advisable to drive faster than 20 km/h (12.4 mph) with the rotor unit raised. Higher speeds can lead to dangerous situations and cause damage to the machine and tractor.

- **When the machine's drawbar is resting on the tractor's connection, at least 20% of the tractor's weight must be supported on the front axle.**
- **Always transport the machine with an empty hopper.**
- **When the machine is being transported on a trailer, it must be secured at the points illustrated in *Fig. 5,* according to 2014/47/EU and/or local legislation.**
- **Use undamaged tension straps with sufficient strength and with a minimum width of 50 mm.**
- **Always secure the machine properly on a trailer, in all directions.**
- **Make sure the rotor unit is locked in the transport hooks.**
- **Ensure the tire pressure is appropriate for the type of surface, surface conditions, and driving speed.**

 922.340.008	Securing points are located near these stickers, on both sides of the machine.

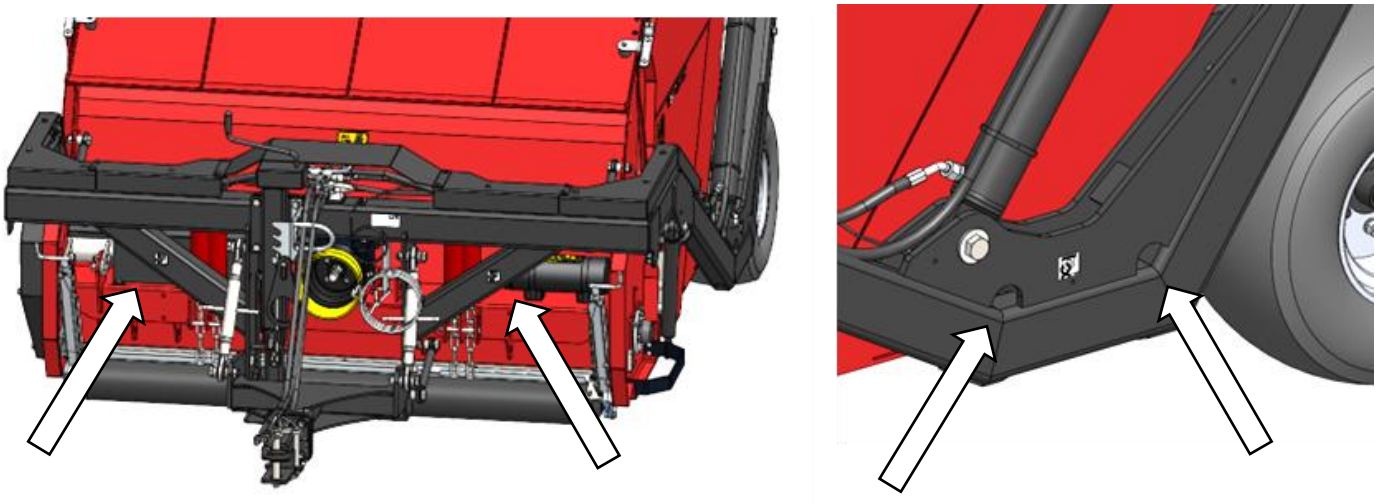


Fig. 5

8 COMMISSIONING THE MACHINE

8.1 Safety

Before the machine can be used, check the following points:

- Are there any loose objects on the field? Remove these first.
- Are there any slopes? The maximum inclination on which this machine may be used is 20 degrees.
- Are there any hard objects in the ground? If so, use the machine at an appropriate speed and adjust the working depth.
- Is there a risk of situations that distract the operator's attention? If so, the machine must **NOT** be used.
- Is there a risk of sliding or slipping? If so, postpone the operation.
- When the soil is frozen or very wet, postpone the work until conditions improve.
- Do not take sharp turns when the machine is resting on the ground.

8.2 Working speed

The maximum working speed of the machine depends on the ground conditions, working depth/height, and the desired result. The recommended maximum working speed is limited to 5 km/h (3.1 mph). Higher speeds are not recommended due to excessive wear and damage that may occur to the machine.

⚠ **If hard objects are to be expected in the soil, reduce the working speed.**

⚠ **The maximum working speed always depends on the working depth, soil conditions, and the desired result.**

8.3 Working depth/height setting

The machine can be used for scarifying, mowing, or leaf collecting. The working depth can be set in three different ways, as follows:

1. **Front roller**
   The front roller is the standard configuration, and it is used in most operating conditions.

2. **Rear roller**
   The rear roller can be used in the following situations:
   - When it is undesirable to compact material before removal.
   - When operating on highly uneven terrain, setting both the front and rear rollers as depth control helps reduce soil disturbance and damage.
   - When the rear roller is kept above ground level, airflow is increased, improving material pick-up efficiency.

3. **Swivel caster wheels (Optional)** (see also chapter 10.2)
   Swivel wheels are an optional accessory that improve manoeuvrability. They allow tighter turns and prevent the machine from being dragged sideways during flail mowing or sweeping operations.

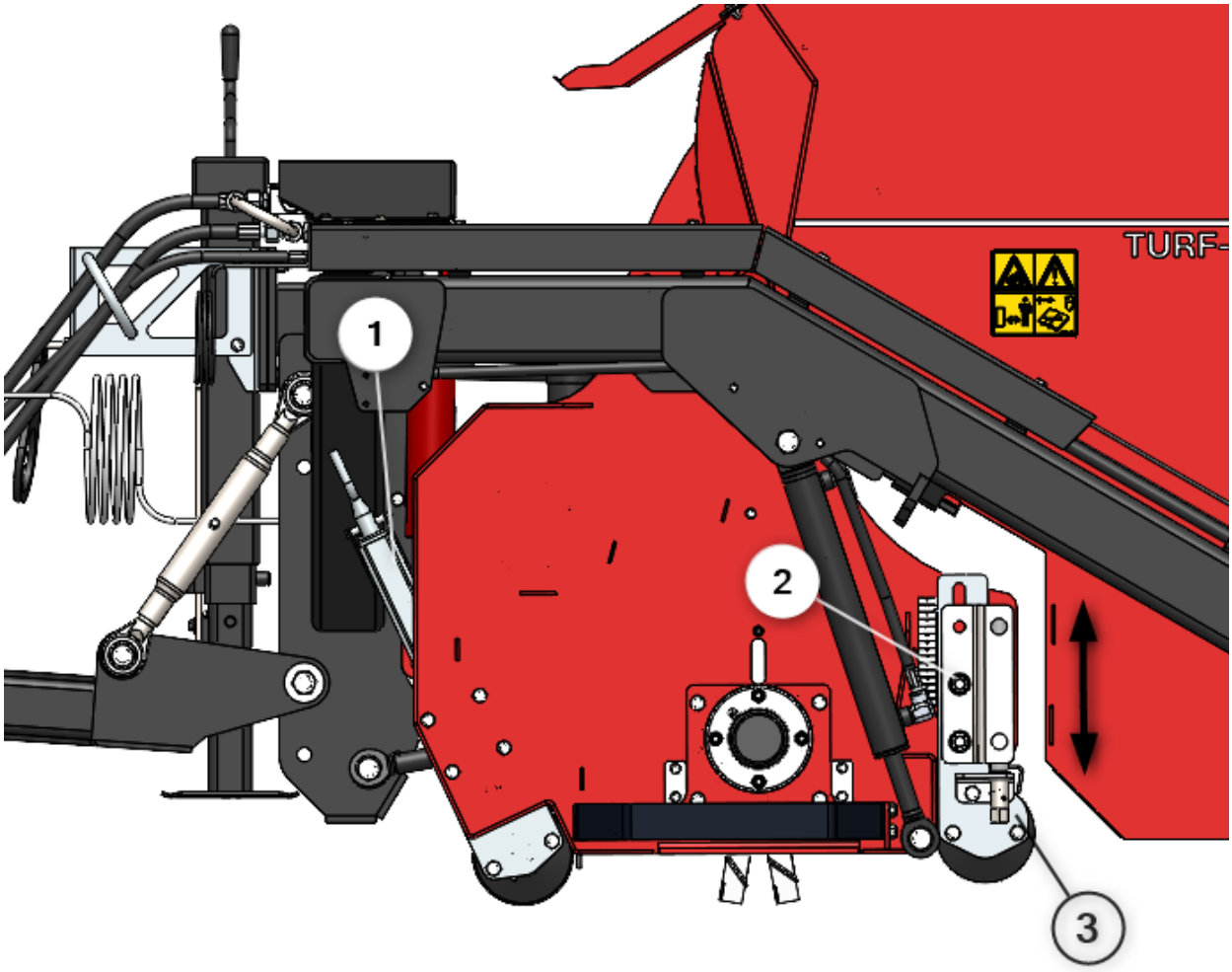


Fig. 6

Depending on the type of operation you need, set the working depth/height as follows:

Front roller (*Fig. 7*):

1. Tilt the lock plate (4) to unlock the adjustment mechanism and allow the lever (5) to rotate.
2. Rotate the lever CCW to raise the front roller, thereby increasing the working depth.
3. Rotate the lever CW to lower the front roller, thereby reducing the working depth.

⚠ **Always set left and right sides at the same height.**

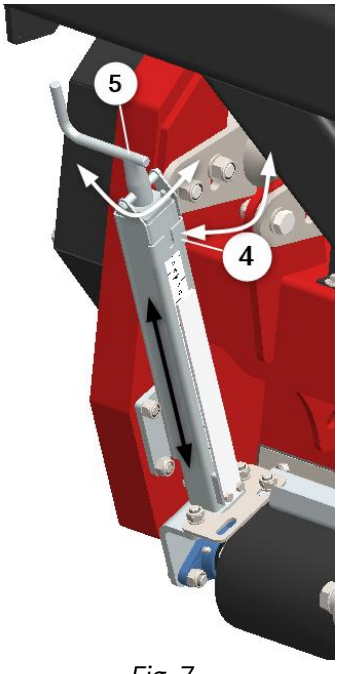


Fig. 7

Rear roller (*Fig. 8*):

1. Loosen the lock bolts (2).
2. Rotate the spindle (3) CW to raise the roller, thereby increasing the working depth.
3. Rotate the spindle (3) CCW to lower the roller, thereby reducing the working depth.
4. Lock the adjuster with the lock bolts (2).

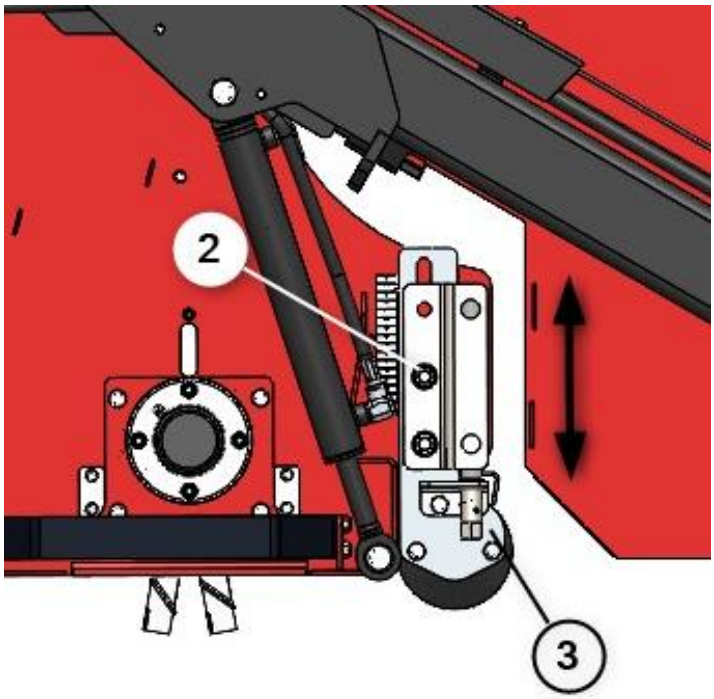


Fig. 8

⚠ **Always set left and right sides at the same height.**

☞ **When setting the depth for the first time always place the machine on a flat, hard surface. Also, set the depth above ground level. Check visually if the depth setting matches the result.**

☞ **Always test the settings on a short passage to verify if the machine produces the desired result. Take appropriate action in case the result is not acceptable.**

8.4 Start/Stop procedure

The start procedure is **VERY** important. Failure to follow the procedure as described below may result in serious damage to the machine.

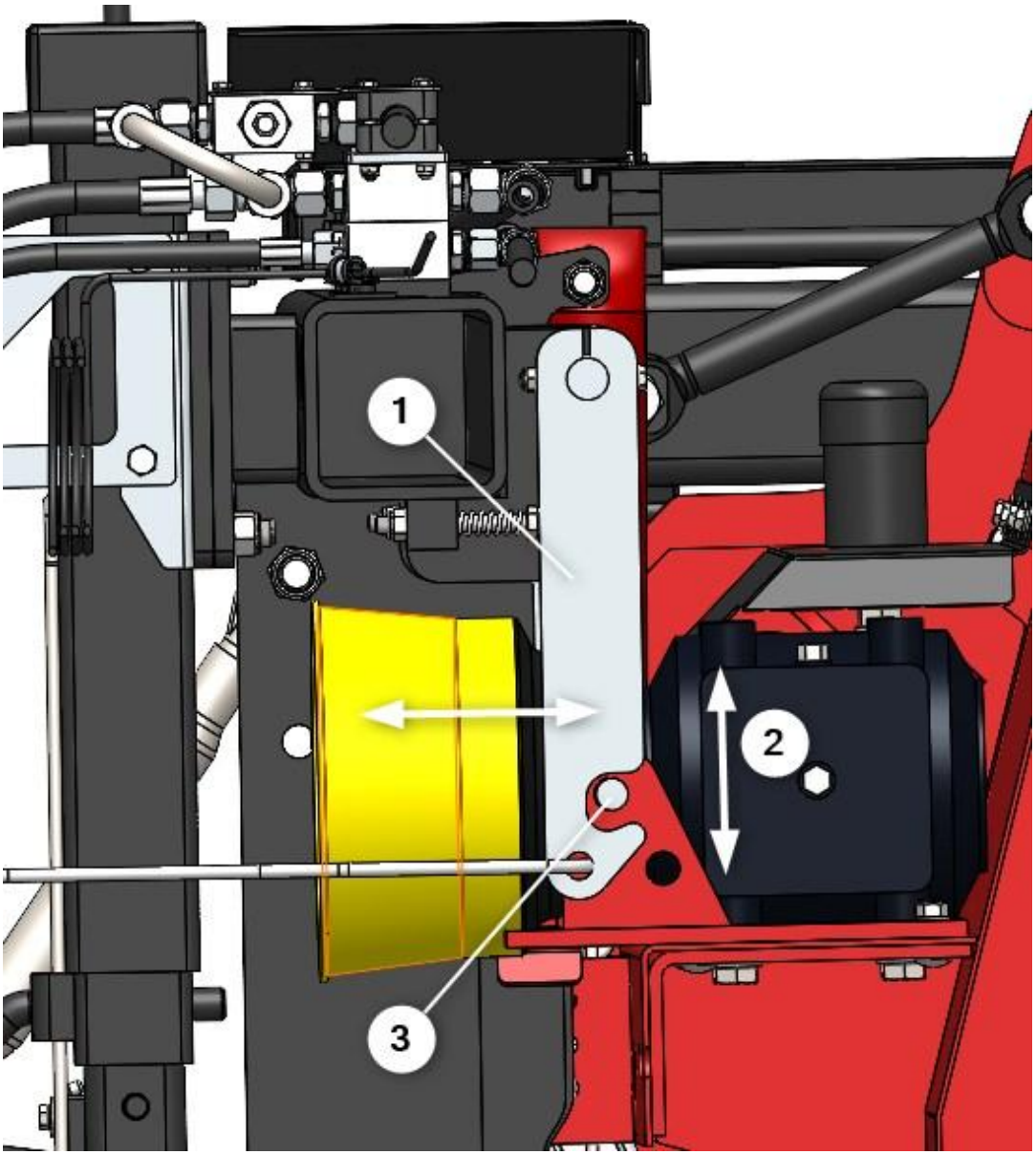


Fig. 9

To start, follow the steps below (*Fig. 9*):

1. Check the machine thoroughly for loose parts and make sure that all parts function properly.

⚠ **If any parts are loose or not functioning correctly, fix all issues before operating the machine.**

2. Check that the rearview camera gives a clear view behind the machine.
3. Drive to the location where the operation is to take place.
4. Raise the rotor unit up by applying pressure to the hydraulic cylinders.
5. Pull the rope to unhook the lock plate (1).

6. Lower the rotor unit by releasing the pressure from the hydraulic cylinders.
7. Release the rope.
8. Lower the rotor unit to just above the ground.
9. Set the tractor engine to approximately 1200 rpm.
10. Engage the PTO.
11. Put the tractor in the correct gear and drive forward.
12. While driving forward, carefully lower the machine to the set height while it is rotating. Keep the rotor unit floating by setting the hydraulic port to the floating position.
13. Increase the PTO speed to the maximum allowed value of 540 rpm for scarifying or 300 rpm for sweeping.
14. Test the machine over a short section of soil and assess whether the machine settings produce the desired result.

☞ **When scarifying, drive in straight lines to prevent damage to the soil.**

☞ **When you are about to make small radius bends or the rotor unit pushes too hard on the soil, the weight compensation needs to be adjusted, see chapter 9.6.**

☞ **When looking in the rearview camera, the result should be visible. If the machine leaves behind too much material, the hopper may be full. If you suspect the hopper is not full yet, check the machine for other issues.**

To stop, follow the steps below (*Fig. 9*):

1. Reduce the PTO speed.
2. Lift the rotor unit from the soil.
3. Disconnect the PTO.
4. Raise the rotor unit fully to engage the transport locks or raise it slightly to start a new pass.

☞ **When the automatic locking is not intended, move the pin (3) to the other hole.**

⚠ **Be aware that the rotor does not stop immediately but continues to spin for some time.**

⚠ **Make sure the pin (3) is back into the automatic locking hole after the work is completed.**

5. Move to the next location and start again, as described above.
6. When residue is no longer being picked up, which is visible in the rearview camera, the hopper is full.
7. Empty the hopper.

8.5 Procedure to empty the hopper

To empty the hopper, do the following (*Fig. 10*):

1. Drive to the location where the hopper can be emptied.
2. Reverse to the exact emptying location. You should be able to see the surrounding area clearly in the rearview camera.

⚠ **Only empty the hopper on a solid, level surface.**

⚠ **Check for overhead objects before tipping the hopper.**

⚠ **Ensure that there are no people present in the hazard zone of the machine.**

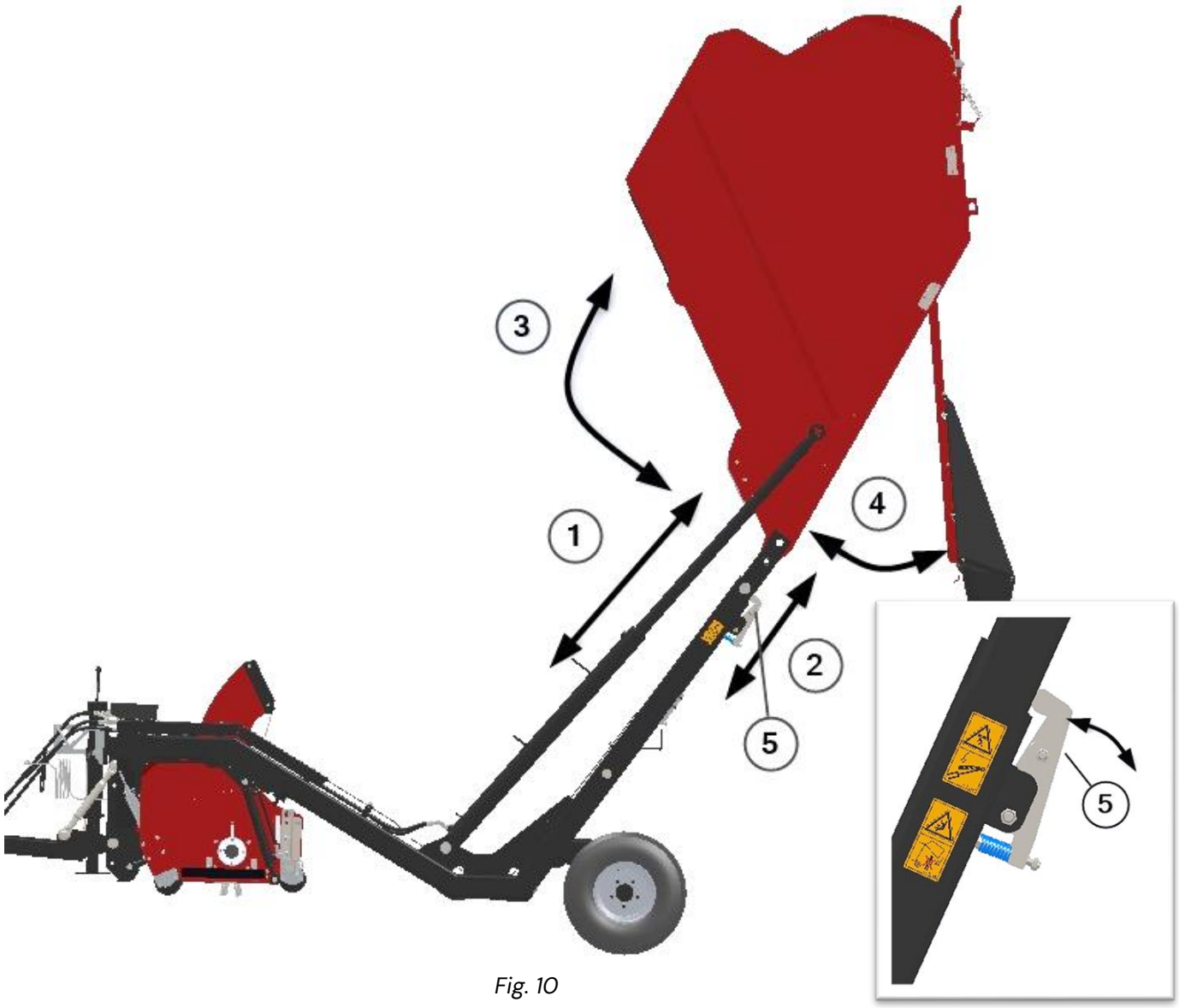


Fig. 10

3. Activate the connected hydraulic outlet of the tractor to raise the hopper. The following actions will take place:
    a. The hydraulic cylinder (1) extends.
    b. The inner frame tube (2) slides out.
    c. The automatic lock (5) engages.
    d. The hopper (3) tilts.
    e. The hopper top door (4) automatically opens.
    f. The residue falls out.
4. When the hopper is empty, retract the hydraulic cylinder by reversing the hydraulic oil flow. The following actions will take place:
    a. The hopper (3) first rotates back.
    b. The lock (5) automatically disengages.
    c. The inner tube (2) slides back in place.
    d. The hydraulic cylinder (1) retracts further in.
    e. The hopper (3) returns to the working position.
5. Drive slowly forwards until it is safe to speed up.

9 TECHNICAL INFORMATION

Generally speaking, the Turf-Tidy 5000 is not a complicated machine. Several technical items will be explained below. If you still have questions after reading this section, please contact your dealer, who will be happy to assist you.

9.1 Working within the hopper's reach

Before performing any work inside the frame, ensure the hopper is securely locked to prevent accidental lowering. To do so, follow the steps below (*Fig. 11*):



Fig. 11

1. Drive to the location where the machine is to be maintained.

⚠ **Ensure the storage location has a stable surface and the machine cannot slide.**

⚠ **Ensure the storage location has enough overhead height for the machine to fully extend.**

⚠ **Ensure there are NO objects in the storage location, at any height, that can move into the machine's reach, such as cranes, overhead doors, etc.**

⚠ **Turn OFF the tractor engine and remove the key.**

⚠ **Ensure the machine and tractor cannot start or move during operation.**

2. Fully lift the hopper until the holes for securing the hopper to the frame tube align (2).
3. Take both securing pins (1) from their holders.
4. Fully insert the pins (1) left and right through both the tube and the hopper.
5. Place in the R-clips. It is now safe to work within the frame.

9.2 Working inside the rotor unit

Before working inside the rotor unit, ensure that the hopper is raised and securely locked, and that the inspection lid is secured.

To do so, follow the steps below (*Fig. 12*):

⚠ **Ensure the rotor unit sits in the transport hooks.**

⚠ **Turn OFF the tractor engine and remove the key.**

⚠ **Ensure the machine and tractor cannot start or move during operation.**

⚠ **Ensure the hopper is safe and secured.**

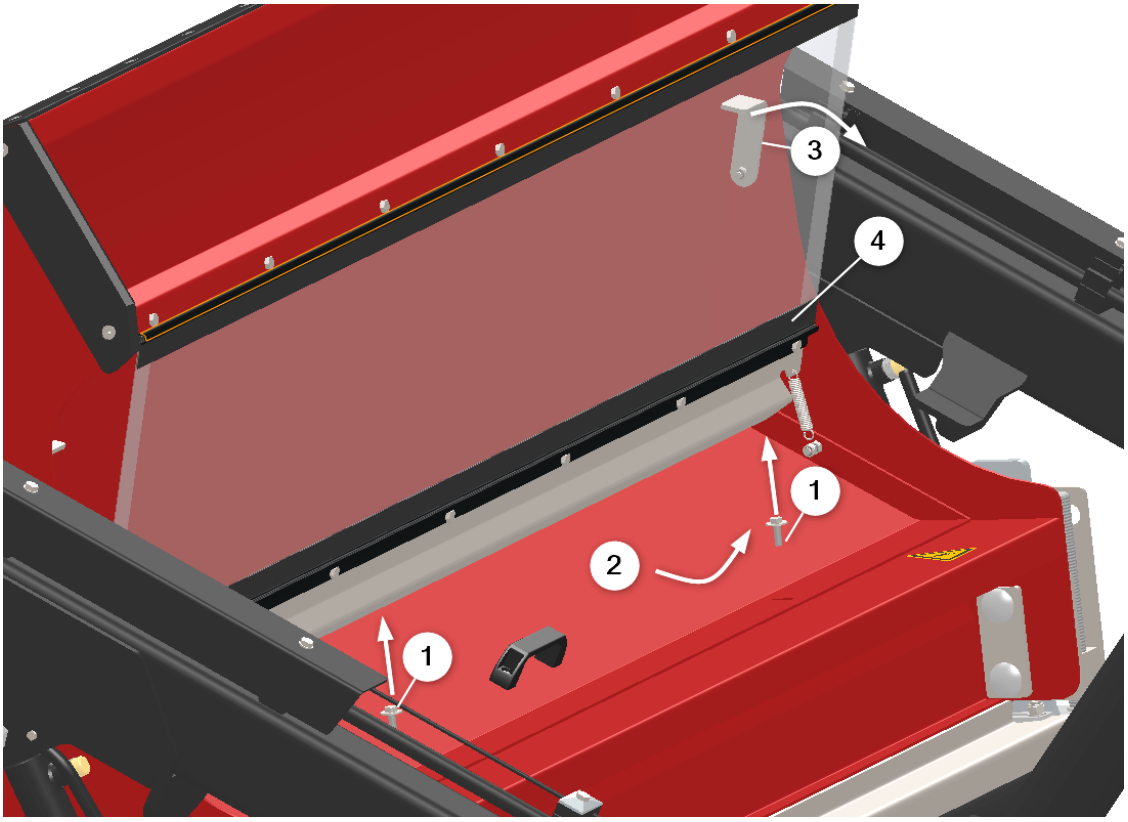


Fig. 12

1. Release the bolts (1) that secure the inspection lid (2).
2. Rotate the lid until the dust cover (4) can be folded away.
3. Rotate the lock plates (3) until they are in front of the dust cover.
4. Rotate the inspection lid (2) further up to the end of the stroke.
5. Rotate the lock plates (3) until the inspection lid (2) is secured.

The following figure shows the inspection lid in a safe position for work to proceed (*Fig. 13*).

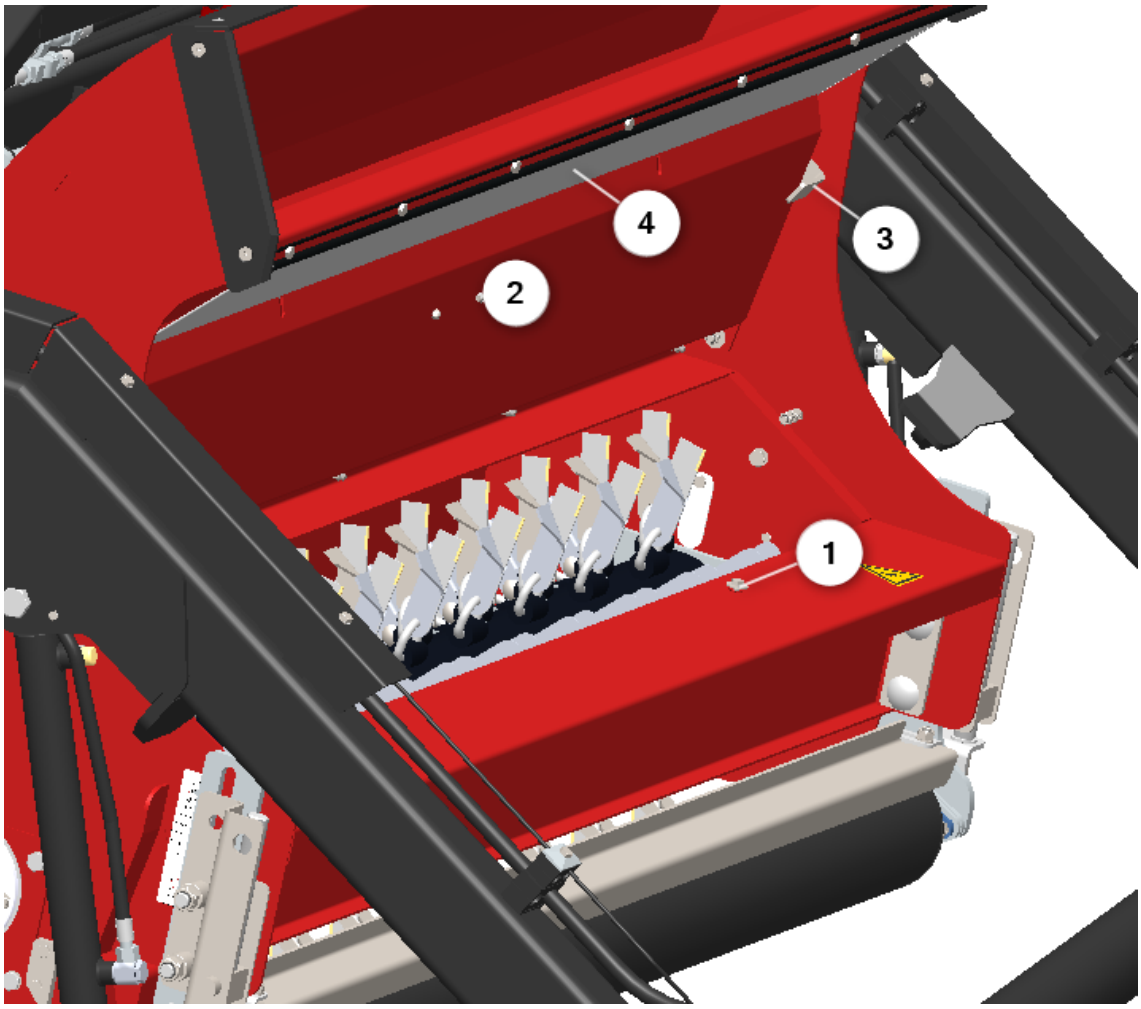


Fig. 13

9.3 Replacing/changing the blades

The machine can be equipped with different types of blades. When the blades are worn or when the machine will perform a different type of operation, you must replace the blades.

To replace or change the blades, follow the steps below (*Fig. 14*):

⚠ **Before entering the machine, make sure the hopper and inspection lid are secured.**

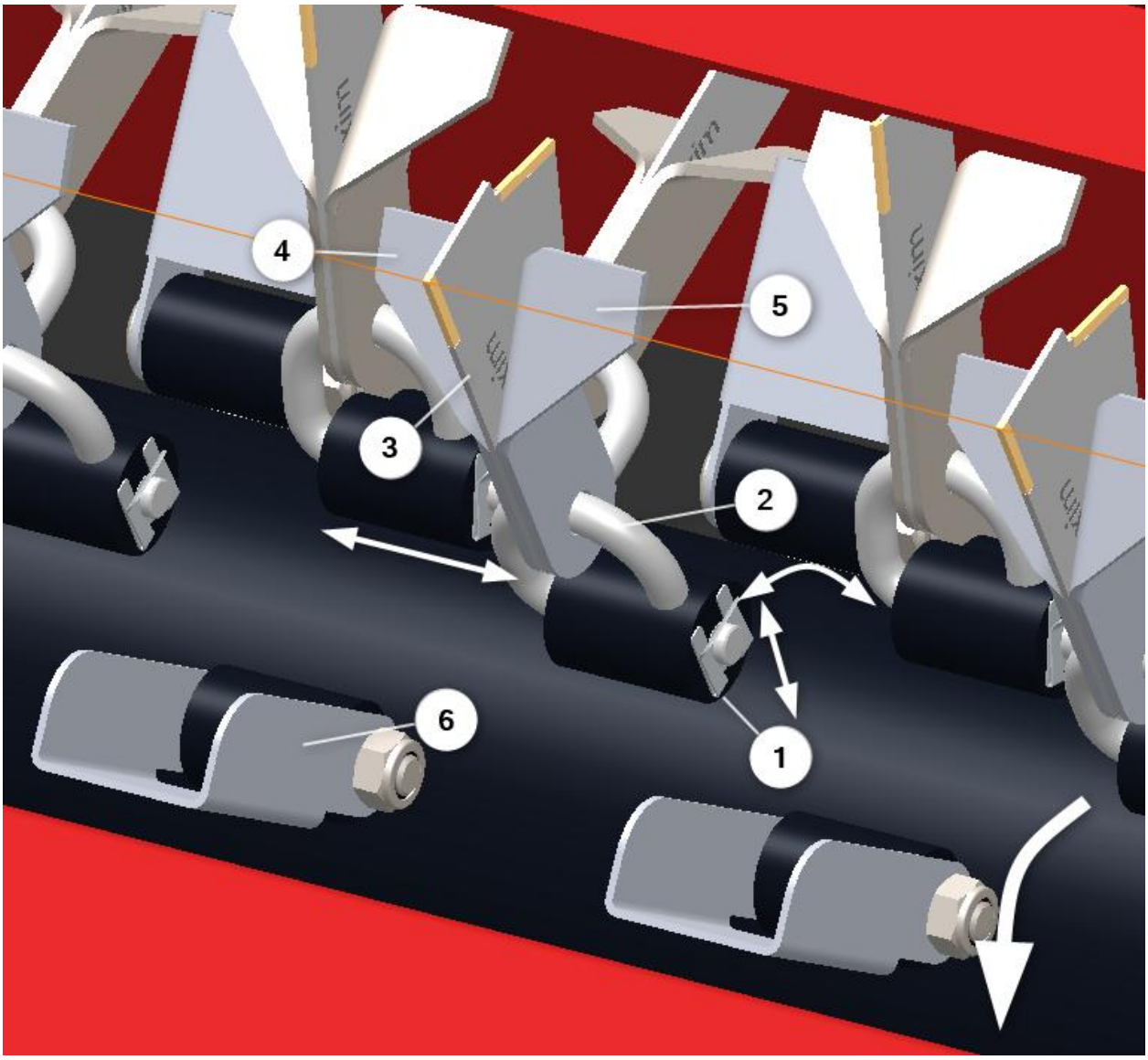


Fig. 14

1. Gently fold the H-connector (1) until it can be removed from the hook (2).
2. Slide out the hook.
3. Replace the scarify blade (3) and/or the wind paddles (4 and 5).
4. Slide the hook back in.
5. Place the H-connector back.

⚠ **Check the H-connectors and the blades for correct mounting.**

⚠ **It is essential to equip the rotor with a complete set of identical blades to maintain proper balance. Missing or mismatched blades can cause imbalance and result in machine damage.**

☞ **When replacing the blades, make sure to order a complete set of H-connectors for proper installation.**

☞ **After replacing the blades, check that all items are installed in the correct direction of rotation and let the machine work on a small area.**

The blade hooks can be inserted in two positions (*Fig. 15*):

a. With the opening facing left, creating a spacing of 40 mm.
b. With the opening facing in combination left and right, creating a spacing of 20 mm.

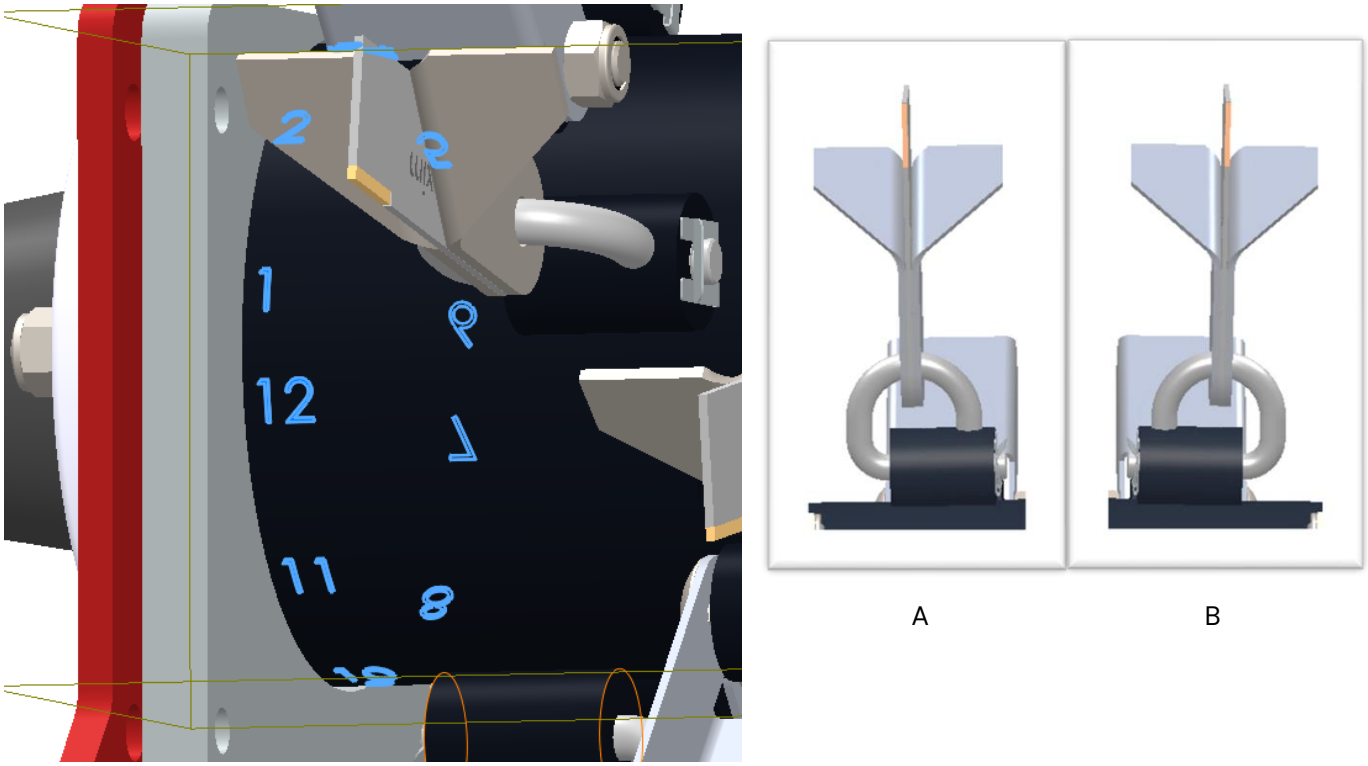


Fig. 15

- The row numbers are indicated on the rotor and range from 1 to 12.
- The windvanes are installed in rows 2, 5, 8, and 11.
- Spacing 40 mm: the blade hooks in rows 1, 3, 4, 6, 7, 9, 10 and 12 are installed with the closed side facing to the left (row numbers side) (A)
- Spacing 20 mm: the blade hooks in rows 1, 3, 4, and 12 are installed with the closed side facing to the left (row number side) and the blade hooks in rows 6, 7, 9, and 10 are installed with the openings facing opposite directions (B).

6. When finished, close the inspection lid and reattach the fasteners in reverse order from opening.
7. Check the dust shield for proper refolding.
8. Step away from the inside of the frame, remove the safety pins and store them back in the right place.
9. Start the tractor and fully lower the hopper.
10. Check that the rotor unit is still in the transport locks.
11. Start the PTO and run the rotor on full RPM for 1 minute.
    a. If excessive vibration occurs, not all blades were installed.
    b. If the test run was successful, the machine is ready for use.

9.4 Tensioning the V-belts

During operation, the V-belts may loosen and wear over time. Check the V-belt tension regularly and adjust it as required.

The belt tension can be inspected without removing the cover, by using the slotted inspection holes (see *Fig. 16* and *Fig. 17*).

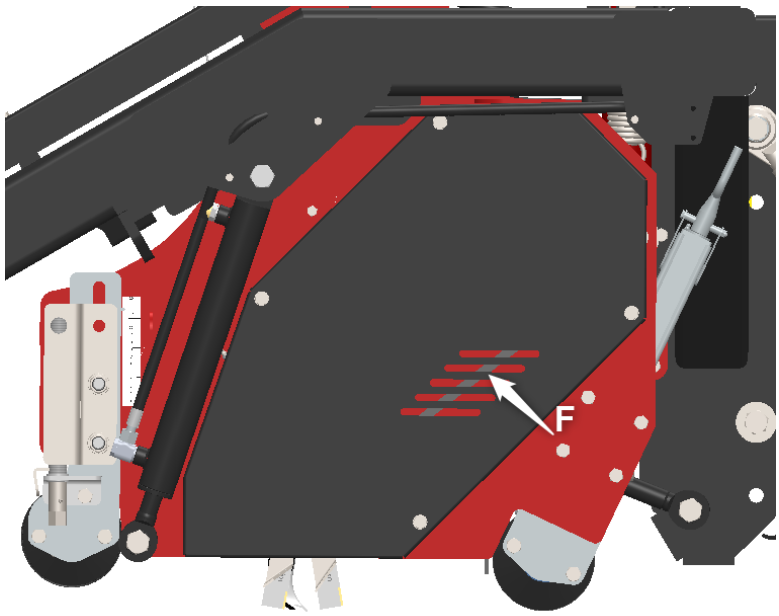


Fig. 16

- Apply a pressure of 3.5 kg (7.72 lbs) perpendicular to one V-belt.
- When the tension is correct, the compression is about 4.5 mm.
- When the compression exceeds 4.5 mm, the V-belts need tensioning.

⚠ **Ensure the rotor unit sits in the transport locks.**

⚠ **Turn OFF the tractor engine and remove the key.**

⚠ **Ensure the machine and tractor cannot start or move during operation.**

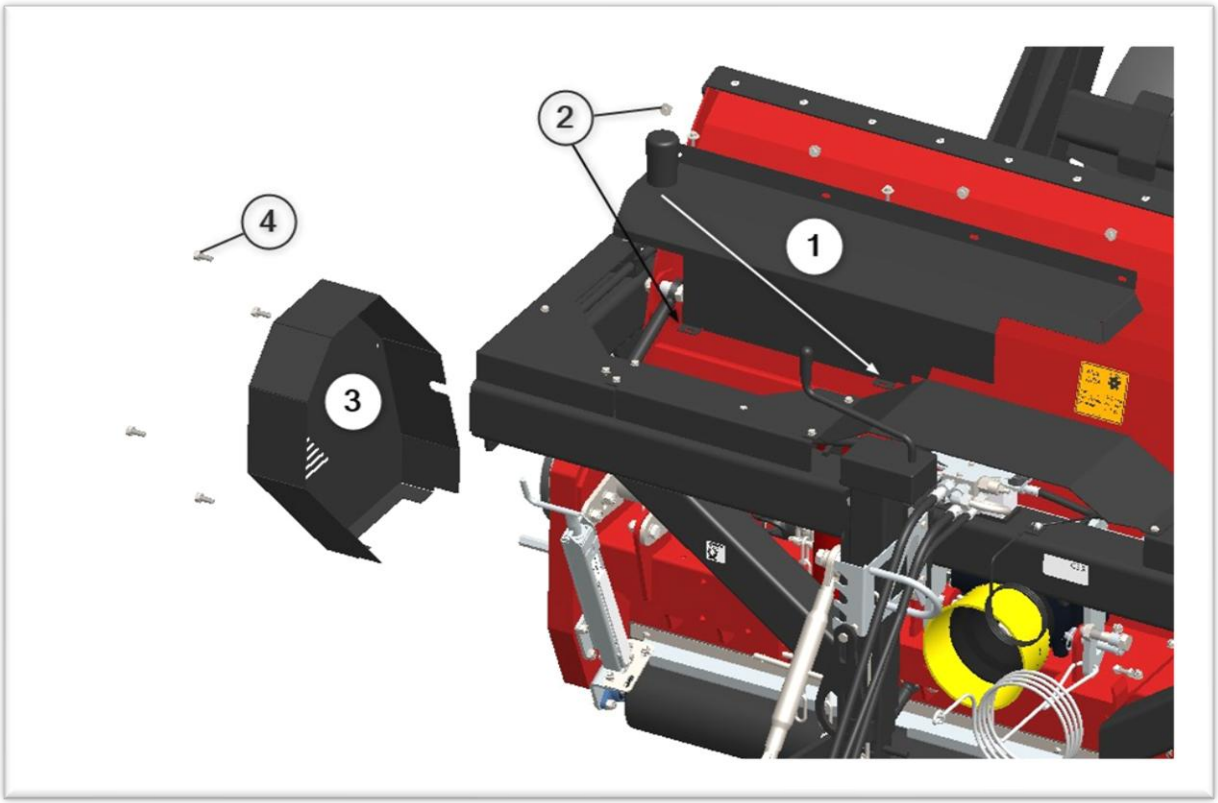


Fig. 17

To tension the V-belts, follow the steps below (*Fig. 17*):

1. Remove the drive cover (3) by removing the bolts.
2. Remove the safety guard (1) by removing the bolts.
3. Loosen the V-belt tensioner bolts (7) one turn and the upper spanner nut (6) as much as needed.
4. Tighten the lower nut until the compression is at the correct value and therefore the tension is correct.
5. Tighten the upper spanner nut (6).
6. Tighten the tensioner bolts (7).
7. Place the covers (1 and 3) back.

9.5 Replacing the rotor

The Turf-Tidy 5000 is supplied as standard with a harrowing rotor. If a sweeping rotor is required, the complete rotor assembly must be replaced.

To replace the rotor, follow the steps below (*Fig. 17* and *18*):

⚠ **Before starting the work, ensure the machine is stable and the rotor unit is raised into the transport locks.**

⚠ **Be aware that the rotor weighs 150 kg!**

☞ **Disconnect the machine from the tractor and replace the rotor within reach of a crane. Use trolleys to move the rotors.**

☞ **Use the jack to change the height of the rotor unit up to level, when needed.**

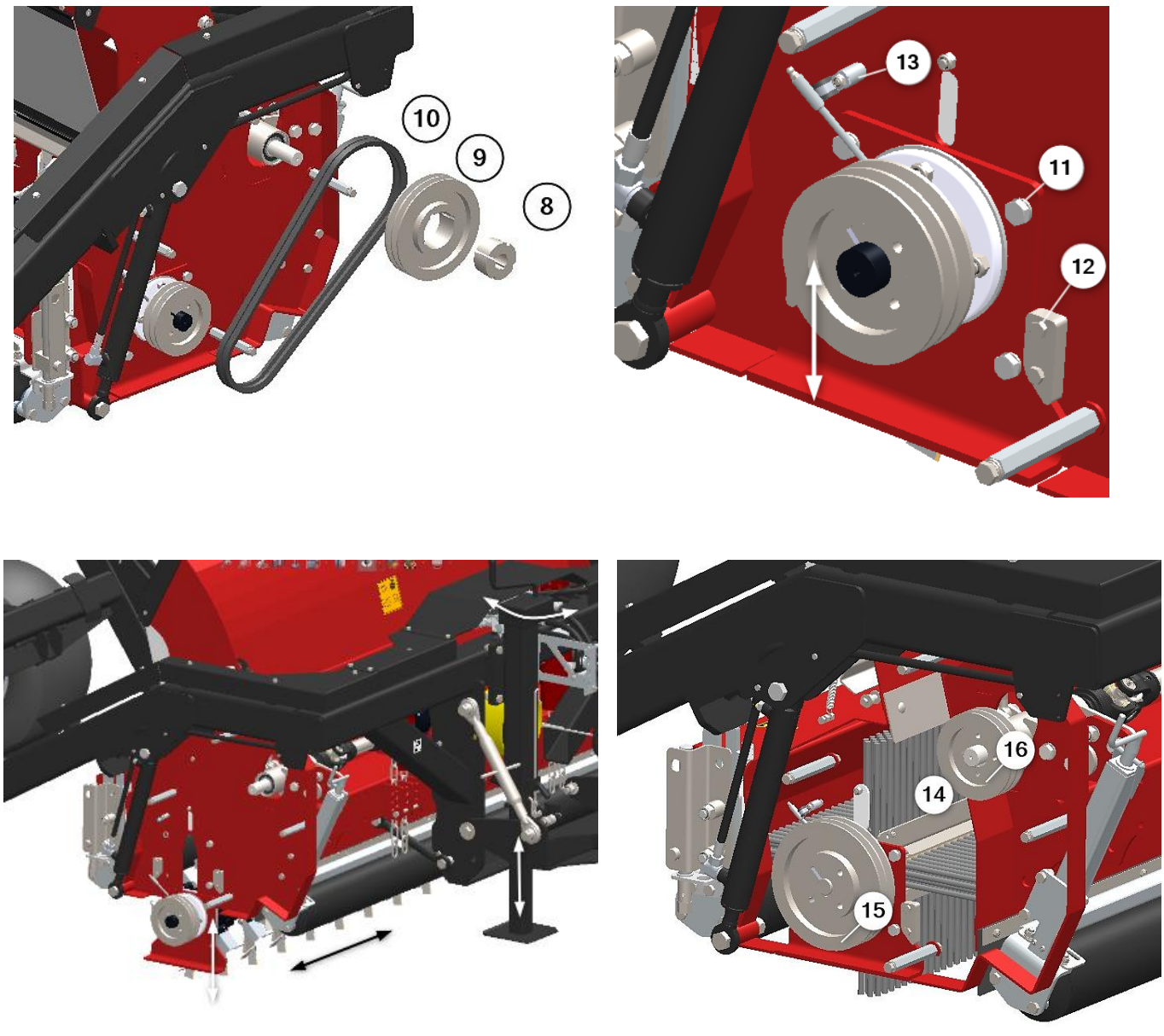


Fig. 18

1. Remove the drive cover (3) by removing the bolts.
2. Remove the safety guard (1) by removing the bolts.
3. Loosen the V-belt tensioner bolts (7) one turn and the upper spanner nut (6) as much as needed.
4. Remove the upper V-belt pulley (8 and 9) and the V-belts.
5. Remove the clamp that holds the grease nipple (13) in place.

⚠ **Support the rotor before proceeding. The next step will leave the rotor unsupported.**

6. Adjust the jack-lever to support the rotor and prevent it from falling.
7. Remove the 4 bolts (11) that hold the rotor in place.
8. Leave the locator strips (12) in place.
9. Lift the machine and remove the rotor.
10. Place the new rotor in the same manner into the rotor unit. The position of the rotor is correct when the outside plates sit on the locator strips.
11. When fitting a brush rotor, install the pulley diameters opposite to those used on the harrowing rotor. The large pulley must be mounted on the rotor, and the small pulley on the drive shaft. Also, please note the following:

    - The taper-lock bushes are not interchangeable, which prevents incorrect assembly.
    - When installing a harrowing or mowing rotor, the use of a new set of fasteners is recommended.

12. Align the pulleys and tighten the taper lock with the required torque.
13. Place the V-belts onto the pulleys and tighten the V-belts, as described in chapter 9.4.
14. Make sure to secure all tensioner bolts.
15. Rotate the rotor by hand a couple of turns to ensure correct installation and alignment. The machine is now ready for use.

9.6 Weight compensation

When making tight turns during operation, reduce the load on the rotor unit. If the load is not reduced, the rotor unit may shift sideways, which can cause damage to the rotor unit, the lifting mechanism, and the surface. Adjusting the rotor unit downforce also controls how well the unit follows ground contours and helps prevent scalping on uneven terrain.
If the standard setting does not provide the desired result, adjust the downforce as described in the following steps (*Fig. 19*). Increasing the spring load will decrease the downforce applied to the rotor unit.

⚠ **Before starting the work, ensure the machine is stable and the rotor unit is raised into the transport locks.**

⚠ **Ensure the location has a stable surface and the machine cannot slide.**

⚠ **Ensure the rotor unit sits in the transport hooks.**

⚠ **Turn OFF the tractor engine and remove the key.**

⚠ **Ensure the machine and tractor cannot start or move during operation.**

1. Adjust the spring load by inserting the bolts (2) through the correct chain shackle (3).
2. The fine tuning of the weight compensation can be achieved by inserting the bolts in another hole on the rotor unit. Always adjust both springs equally.

☞ **Fine-tuning can also be used to compensate for the additional weight on the drive side.**

☞ **When the spring load increases, the downforce of the rotor unit decreases. Therefore, you can take sharper turns without damaging the machine or the field.**

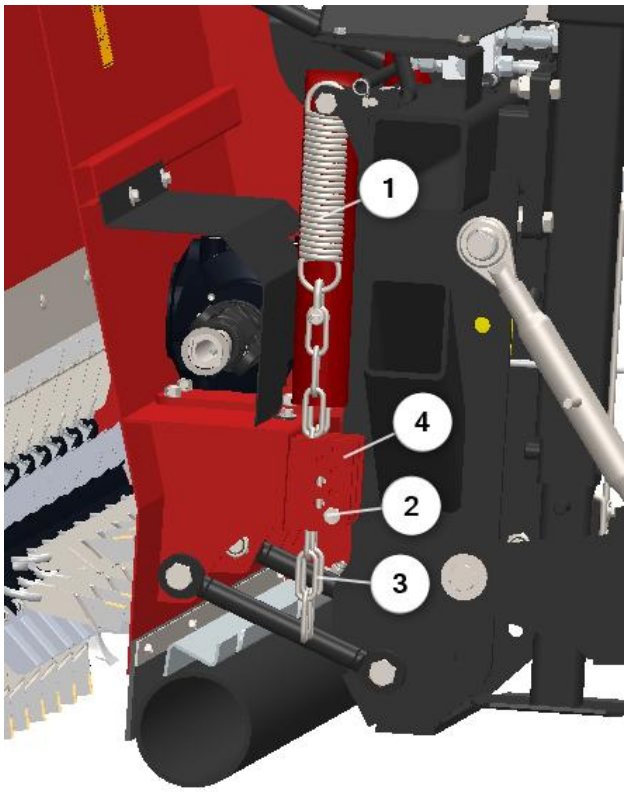


Fig. 19

9.7 Dust cover

The machine is equipped with a dust cover above the filter that redirects dust in the airflow into a horizontal direction, preventing it from being discharged directly upward (*Fig. 20*).

A dust shield positioned at the front of the hopper further ensures that the airflow is directed correctly.

When required, the top dust cover can be folded inward. Upon starting the machine, the airflow will automatically raise the cover. If this does not occur, the cover can be manually positioned upright.

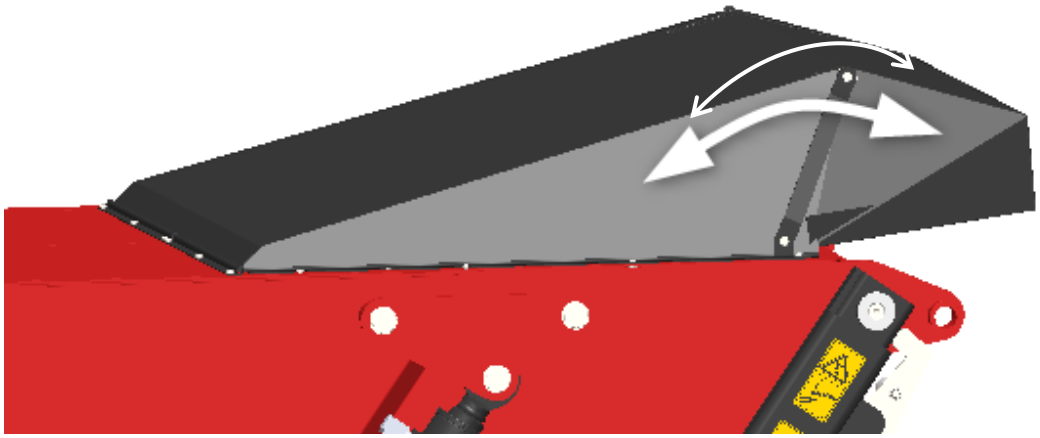


Fig. 20

10 OPTIONS

10.1 Blades

The Turf-Tidy 5000 has 2 mm (0.08") thick harrowing blades (1) as standard. The standard wind paddles (2) come in left and right versions (*Fig. 21*). You can also opt for fitting 3 mm (0.11") thick harrowing blades.

The Turf-Tidy 5000 can also be used as a flail mower. There are two types of flail blades available for this application, the Back-to-back flail blades (3) and the Paddle flail blade (5).

- Harrowing blades (1)
- Standard wind paddles (2)
- Back-to-back flail blades (3)
- Standard flail blades (4)
- Paddle flail blade (5)

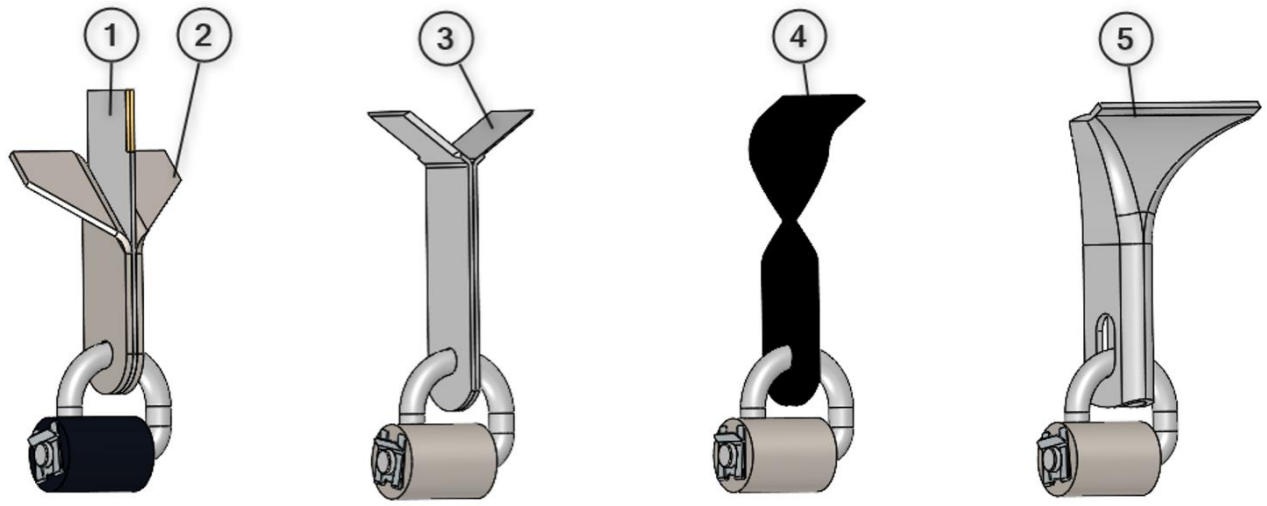


Fig. 21

For the quantities and item numbers, see the parts manual.
For the blade assembly instructions, see chapter 9.3.

10.2 Caster wheels

The Turf-Tidy 5000 rotor unit can optionally be equipped with a front wheel set. Using the front wheels instead of the front roller allows sharper turning during operation.

You can also use the front wheels to adjust the working height for mowing and sweeping applications instead of the standard front roller.

To adjust the height, simply move the shims from one side of the support (2) to the other (*Fig. 22*).

The front wheel set is available as a kit. For components and part numbers, see the parts manual.

⚠ **Use the swivel caster wheels on hard surfaces only. Otherwise, both the surface and the machine may become damaged.**

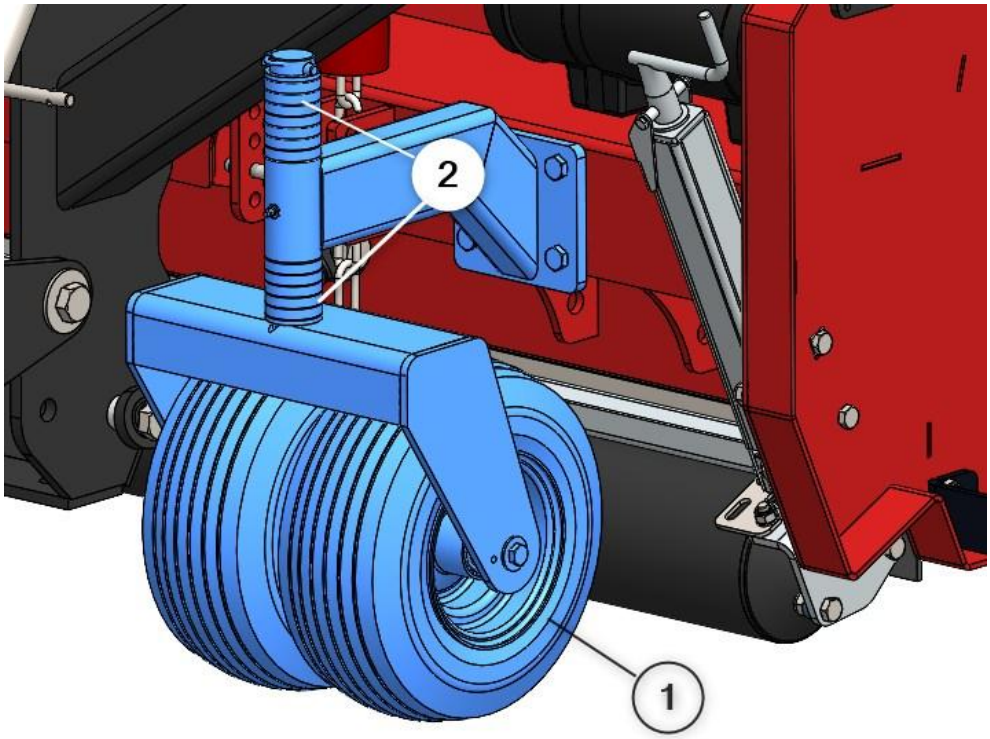


Fig. 22

10.3 Brush rotor

The Turf-Tidy 5000 can also be used as a sweeping machine. A brush kit (1) must be installed to convert the machine (*Fig. 23*). See chapter 9.5 for instructions and refer to the parts manual for details.

⚠ **The PTO speed must be reduced to 300 rpm, to prevent damage to the machine and the surface.**

⚠ **Check the working depth settings. Incorrect depth settings can cause serious damage to the surface and the machine!**

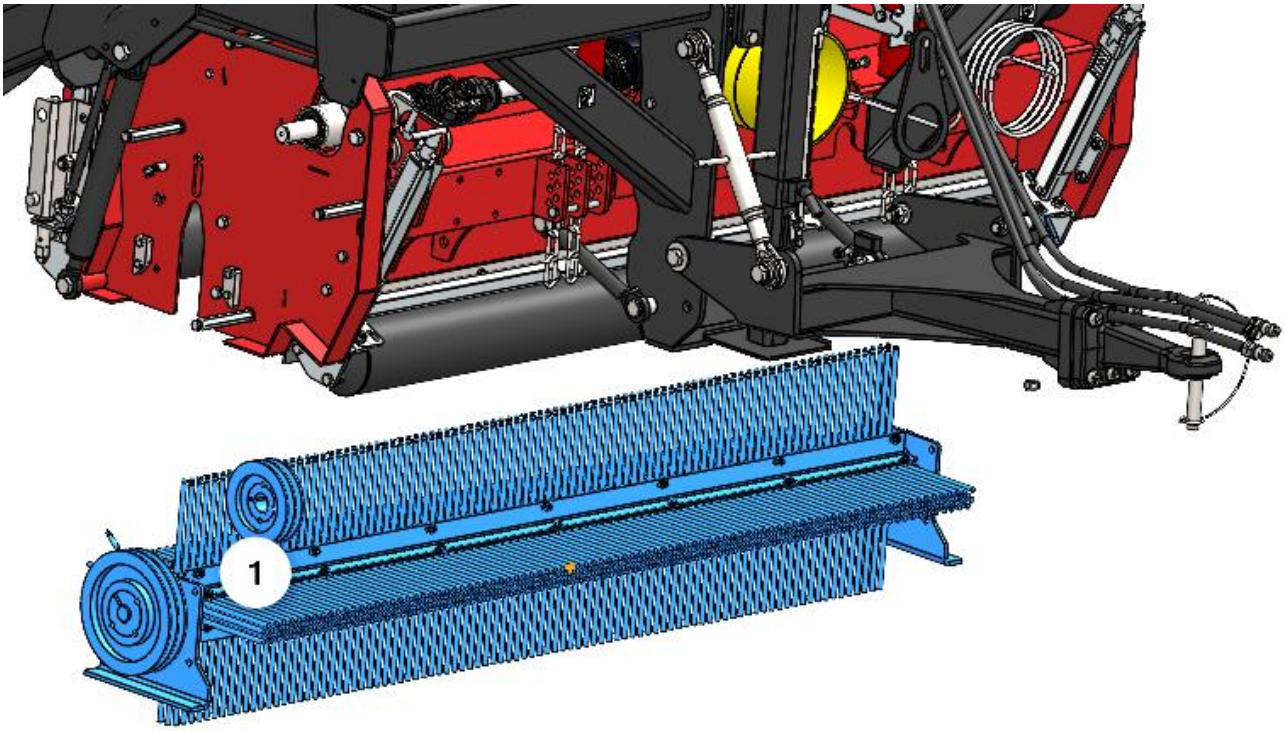


Fig. 23

10.4 Double lip drawbar

In addition to the DIN eye coupling (1), there is also a double lip kit (2) available for when the tractor's connection only consists of a single bar, as shown in *Fig. 24*.

The machine must always be securely connected to the towing vehicle, allowing only limited vertical movement.

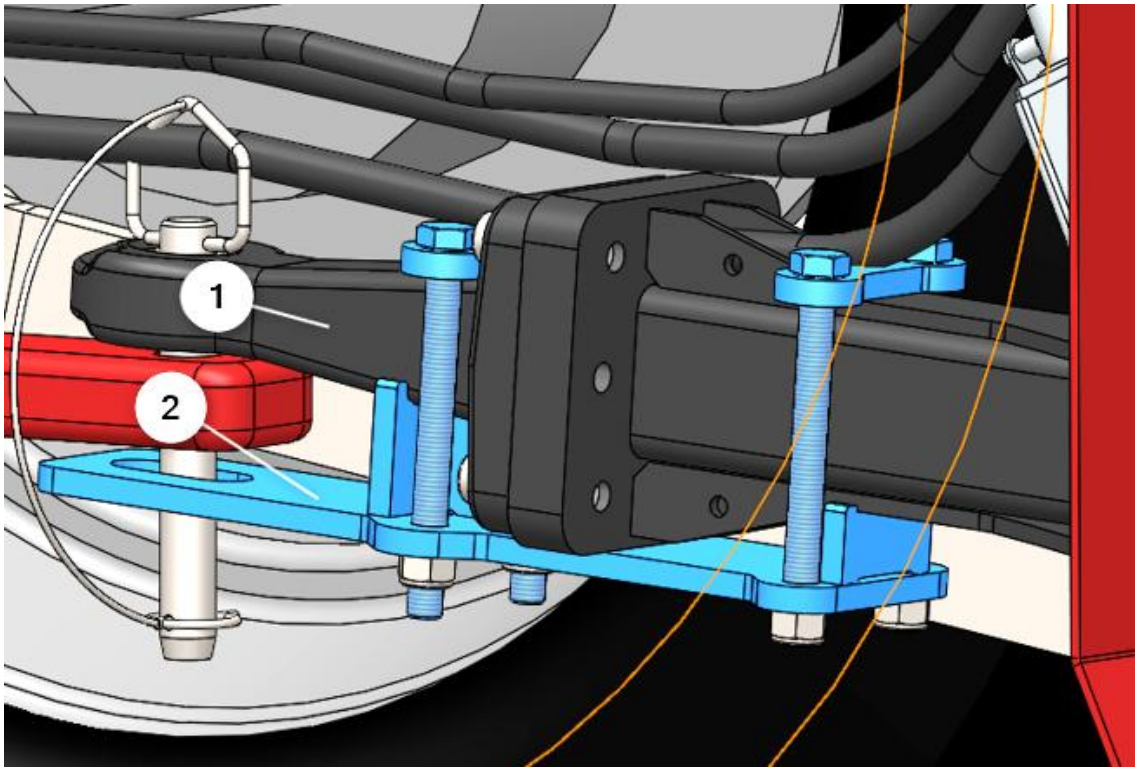


Fig. 24

11 MAINTENANCE

11.1 Maintenance schedule

Timeframe	Checkpoint	Work
Before each use	Check for loose parts.	Secure loose parts properly.
	General check	Connect the machine to the tractor and let the machine run for 5 minutes. Watch and listen for unusual movements and noises.
	Check for oil leaks and oil level in the gearbox.	Repair any leaks and, if necessary, top up the oil. For the procedure, see chapter 11.4.
	Safety stickers	Presence and legibility of safety stickers. Replace them, if damaged or missing.
	Loose parts around PTO	Secure the parts so that they cannot come into contact with the PTO.
	Visually check the tires.	Inflate tires up to the recommended pressure, depending on conditions and speed. If worn or damaged, replace the tires.
	Lighting system and reflectors	Check the marker lights, turn signals, brake lights, driving lights, licence plate light, and reflectors for presence, damage, and correct operation. If the lights do not function correctly, check the electrical connections, bulbs and/or marker lights. Replace or repair parts, if necessary.
	Rear-camera system	Check that the monitor, camera, cables, and connectors are present, undamaged, and functioning correctly. Clean the camera lens and monitor screen, if necessary.
After the first 20 operating hours (new or repaired)	Lubricate PTO, roller bearings.	Use 2 pumps of EP 2 grease. For the lubrication point locations, see chapter 11.3.
	Check for loose parts.	Secure loose parts properly.
	General check	Connect the machine to the tractor and let the machine run for 5 minutes. Watch and listen for unusual movements and noises.
	Check for oil leaks and oil level in the gearbox.	Repair any leaks and, if necessary, top up the oil. For procedure, see chapter 11.4.
	Loose parts around the PTO	Secure the parts so that they cannot come into contact with the PTO.
	Check V-belt tension.	For instructions, see chapter 9.4.
After the first 50 operating hours (new or repaired)	Change the oil in the gearbox/side drive.	For specifications and quantity, see chapter 11.4.
After every 50 operating hours	Lubricate PTO, roller bearings.	Use 2 pumps of EP 2 grease. For the lubrication point locations, see chapter. 11.3.
	Check the hydraulic hoses.	Check for wear and cracks. Replace, if necessary.
	Check for loose parts.	Secure loose parts properly.

	General check	Connect the machine to the tractor and let the machine run for 5 minutes. Watch and listen for unusual movements and noises.
	Check V-belt tension.	For instructions, see chapter 9.4.
After every 500 operating hours or 1 year	Change the oil in the gearbox.	Repair leaks and, if necessary, top up the oil. See chapter 2, Technical Data, Specifications.

Table 2

11.2 Cleaning

When using a high-pressure cleaner to clean the machine, observe the following rules:

- Do not use aggressive cleaning agents that could damage the machine.
- Maximum water pressure: 70 bar (1015 psi)
- Maximum water temperature: 50°C (122°F)
- Do not aim the jet of the high-pressure sprayer directly at the bearings, oil seals, lubrication points, and stickers.
- Maintain a minimum distance of 0.5 m (1.6 ft) between the head of the high-pressure cleaner and the surface to be cleaned.

☞ **To rotate the rotor when cleaning, disconnect the PTO and rotate it by hand using a lever.**

☞ **Lubricate the bearing points after cleaning the machine.**

☞ **Pay extra attention to keeping the hopper air discharge opening (1) clean, as this is very important for the machine to function properly (*Fig. 25*).**

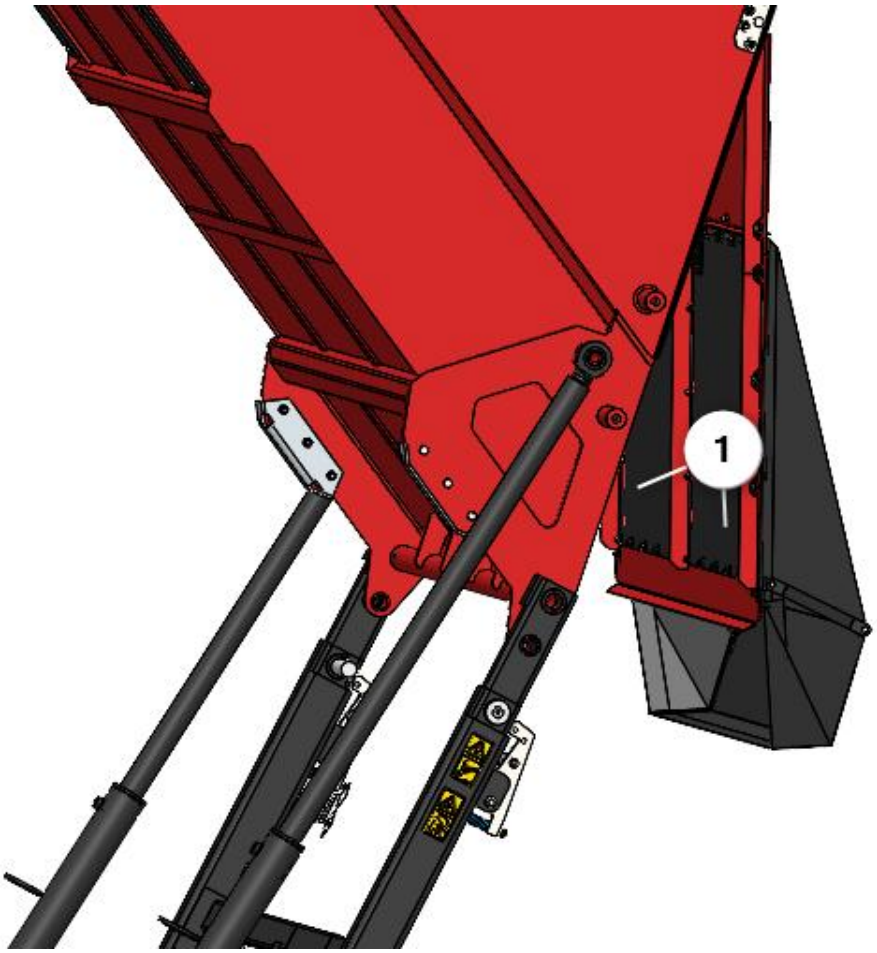
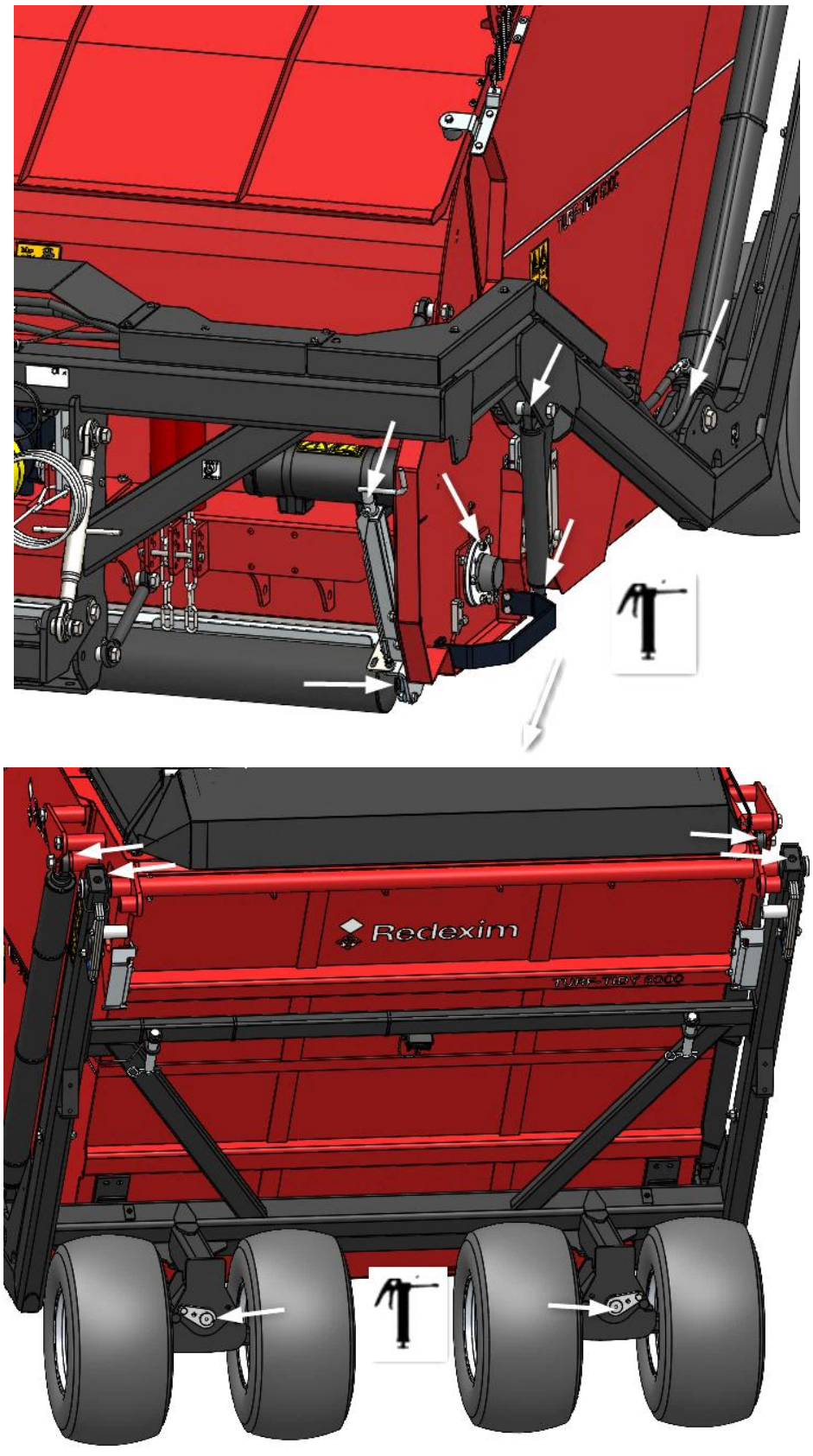


Fig. 25

11.3 Lubrication points

To ensure proper operation of the machine, all lubrication points on both sides of the machine must be lubricated periodically (*Fig. 26*). Lubricate the points according to the maintenance schedule (see Ch.11.1).



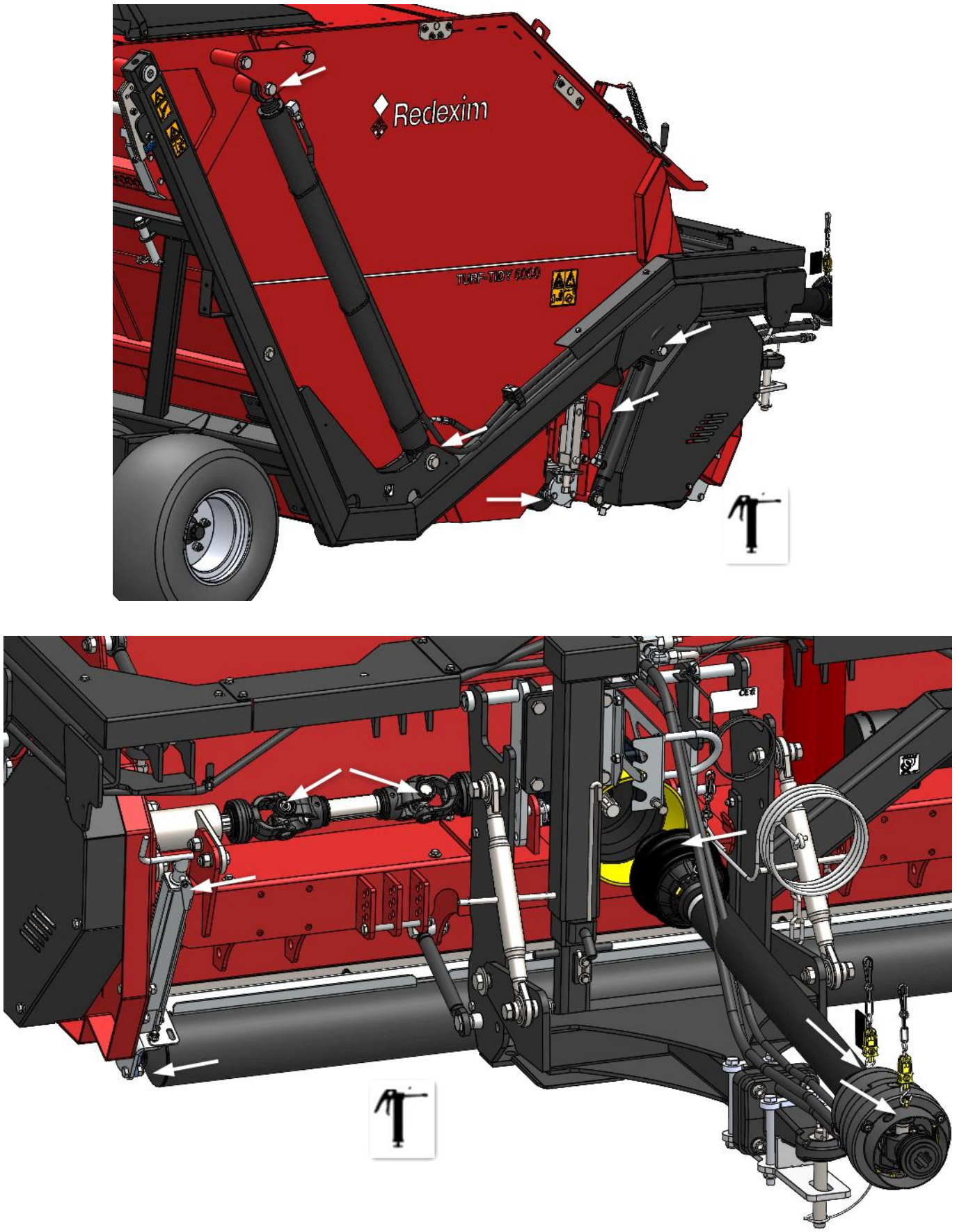


Fig. 26

11.4 Replacing the gearbox oil

From time to time, it is necessary to check the oil level or to replace the oil.
To do so, follow the steps below (see *Fig. 27* as a representation):

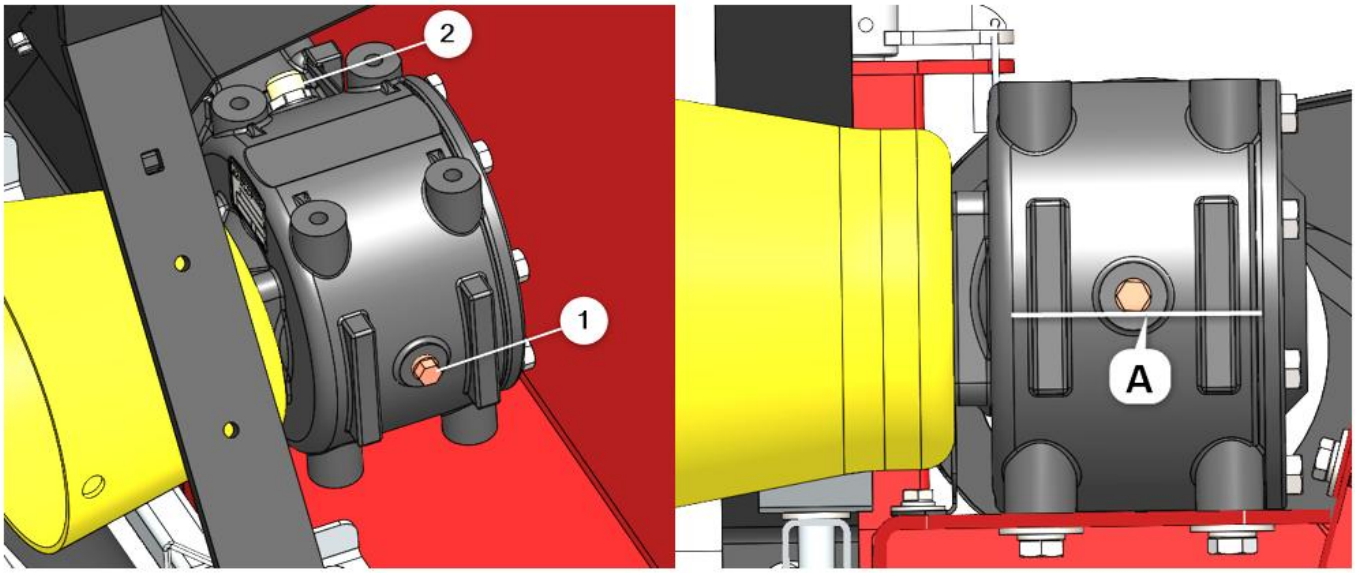


Fig. 27

11.4.1 Oil level check

⚠ **Ensure the storage location has a stable surface, then lower the machine. Make sure the machine cannot slide.**

⚠ **Turn OFF the tractor engine and remove the key.**

⚠ **Ensure the machine and tractor cannot start or move during the operation.**

⚠ **Be careful, the oil may be hot and harmful to the skin.**

⚠ **Waste oil/grease is harmful to the environment; dispose of it in accordance with local regulations.**

1. Make sure the machine is level/positioned straight.

☞ **Keep a cloth within reach to wipe away any leaked oil.**

2. Carefully remove the level plug (1) from the side of the gearbox.
3. Check the oil level (A), it should just reach the bottom of the hole.
4. If needed, remove the breather (2) and fill the missing quantity with GL5 80W90 oil.

11.4.2 Replacing the oil

⚠ **Ensure the storage location has a stable surface, then lower the machine. Make sure the machine cannot slide.**

⚠ **Turn OFF the tractor engine and remove the key.**

⚠ **Ensure the machine and tractor cannot be engaged or move during the operation.**

⚠ **Be careful, the oil may be hot and harmful to the skin.**

⚠ **Waste oil/grease is harmful to the environment; dispose of it in accordance with local regulations.**

1. Make sure the machine is level/positioned straight.

☞ **Keep a cloth within reach to wipe away any leaked oil.**

2. Remove the breather (2), (*Fig. 27*).
3. Drain the gearbox by using an oil suction pump.
4. Check the oil for contamination. Steel particles may indicate a problem.
5. Fill the gearbox with GL5 80W90 oil ±1.7 L (1.8 qt) through the breather hole (2).
6. Check the oil level by carefully removing the level plug (1).
7. When completed, install the level plug (1).
8. Install the breather (2).

11.5 Assembly instructions taper-lock bush

For the correct assembly and disassembly of the taper-lock clamping bush, please follow the procedures below (*Fig. 28*):

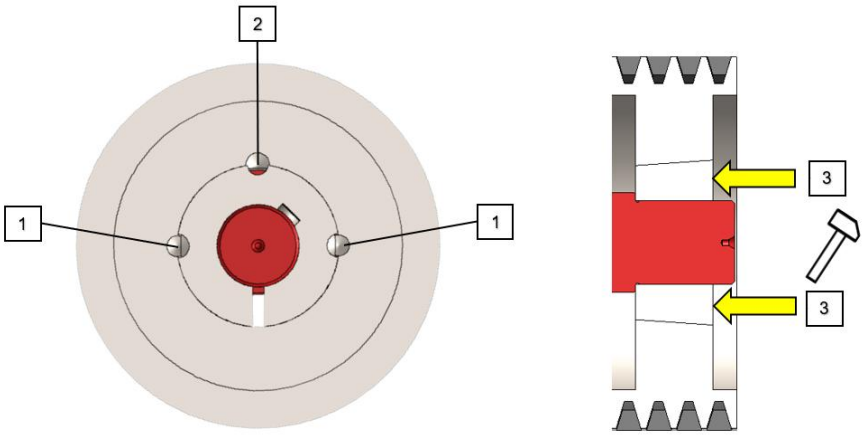


Fig. 28

Disassembly

1. Remove the socket-screws from position 1.
2. Apply oil to one socket-screw and place it in position 2.
3. Tighten the socket-screw up to the point that the clamping bush comes loose from the pulley.
4. Remove both parts from the axle.

Assembly

1. Thoroughly clean the clamping bush/pulley and axle, to remove grease and dirt.
2. Place the clamping bush in the pulley in the correct position. The three holes (1 + 2) of the taper-lock bush must be aligned with the holes of the pulley.
3. Apply oil to the socket-screws, insert them into the holes (1) and turn them hand-tight.
4. Place the pulley, including the taper-lock bush, over the axle and place in the required position.
5. Tighten both socket-screws evenly until the corresponding tightening torque is achieved.
6. Using a hammer and a wooden chock or adaptor ring, tap the outermost ring surface (3) of the clamping bush to settle the ring.
7. Tighten the socket-screws again, until the corresponding tightening torque is achieved. Repeat this once or twice.
8. Let the machine run for approximately one hour and check whether the torque setting of the socket-screws has not deviated. If this is the case, tighten the socket-screws until the corresponding tightening torque is achieved and repeat the procedure.

Clamping bush type	Tightening torque (lubricated)
1008/ 1108	6 Nm (4.4 lbf.ft)
1210/ 1215/ 1310/ 1315/ 1610/ 1615	20 Nm (14.8 lbf.ft)
2012	30 Nm (22.1 lbf.ft)
2517	50 Nm (36.9 lbf.ft)
3020/ 3030	90 Nm (66.4 lbf.ft)
3535	115 Nm (84.8 lbf.ft)

Table 3

11.6 Recommended torque values for standard bolt and nut assemblies

In the table below, the recommended torque values are listed for general bolt-nut combinations clamping metal parts (*Table 4*).

Note: If applicable, for critical applications inside the machine, the torque values will be clearly identified in a special section in the manual. These values are always leading over the general torque values mentioned in *Table 4*.

Before applying the torque values, always consider the following:

- The thread surface is clean on both the bolt and nut.
- Awareness of the difference in torque between dry and lubricated thread.
- Hardness of the clamped surface between the bolt head and nut which affects the installation.

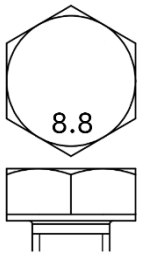
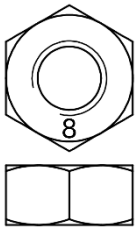
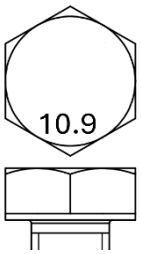
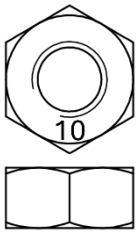
Thread size	Bolt class 8.8 and nut class 8				Bolt class 10.9 Bolt and nut class 10			
	 				 			
	Dry*		Lubricated**		Dry*		Lubricated**	
	Nm	lbf·ft	Nm	lbf·ft	Nm	lbf·ft	Nm	lbf·ft
M5 x 0.80	7.0	5.1	5.2	3.8	9,8	7.2	7.3	5.4
M6 x 1.00	11.9	8.8	8.9	6.5	16,8	12.4	12.5	9.2
M8 x 1.25	28.8	21.2	21.3	15.7	40,4	29.8	30.0	22.1
M10 x 1.50	56.7	41.8	42.0	31.0	79,8	58.8	59.1	43.6
M12 x 1.75	98.6	72.8	73.0	53.8	139	102	103	75,7
M14 x 2.00	157	116	116	85.8	221	163	164	121
M16 x 2.00	241	178	178	131	339	250	250	184
M18 x 2.50	337	248	248	183	473	349	349	258
M20 x 2.50	471	348	347	256	663	489	488	360
M22 x 2.50	638	471	468	345	897	662	658	485
M24 x 3.00	815	601	599	442	1145	845	842	621
M27 x 3.00	1184	873	867	640	1665	1228	1220	900
M30 x 3.50	1611	1188	1182	872	2265	1671	1662	1226

Table 4

* Dry means zinc plated bolt and nut without any lubricant.

** Lubricated means bolt and nut coated with a lubricant such as oil, grease, or a thread sealant in liquid state.

12 TROUBLESHOOTING

Problem	Possible cause	Solution
Machine vibrates.	Missing blades	Check and replace.
	Object between the blades	Remove the object.
	Rotor is out of balance.	Check for damage and/or material wrapped around the rotor.
	Rotor bearings are defective.	Check and replace.
	PTO angles are uneven.	Adjust the top link to an acceptable angle.
	PTO shaft RPM is too high.	Adjust the RPM.
	Working speed is too high.	Adjust the working speed.
	Surface is too hard.	Postpone work until conditions improve.
Rotor does not rotate.	V-belts are slipping.	Check tension and/or replace the V-belts.
	Malfunction in gearbox	Check the gearbox.
	Malfunction on driveshaft between gearbox and side drive	Check the driveshaft.
	Machine depth settings is too deep.	Reduce the working depth setting.
Crunching sound when machine is in operation	Bearings need maintenance.	Check the bearings, then grease or replace.
Insufficient material removed	Working depth/height setting is not correct.	Adjust the working depth/height setting. See chapter 8.3 for the procedure.
	Driving speed is too high.	Lower the driving speed.
	The hopper air discharge opening is clogged.	Clean the mesh of the air discharge opening. See chapter 11.2.
	V-belts are slipping.	Check the tension and/or replace V-belts.
	Blades are worn.	Replace the blades.
Poor field appearance after treatment	Working depth/height setting is not correct.	Adjust the working depth/height setting. See chapter 8.3 for the procedure.
	Surface is too moist.	Postpone work until conditions improve.
	Tire pressure is too high.	Adjust the tire pressure.
	Blades are worn.	Replace the blades.
	Operator did not drive in straight lines.	Drive in straight lines.
Camera malfunction	There is no image on the camera screen.	Check the connection cables and the power supply. Check if there is something blocking the view. There isn't sufficient outdoor light. Resume work when there is sufficient light.

Table 5



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