



Verti-Air® 400

Redexim 

USER MANUAL



Translation of the original user manual
Versie: UM145400000EN-2423

Applies to:

- 145.400.000 Verti-Air® 400A
- 145.400.001 Verti-Air® 400B
- 145.400.002 Verti-Air® 400C
- 145.400.003 Verti-Air® 400D
- 145.400.004 Verti-Air® 400E

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scan for manuals and product registration

EU - DECLARATION OF CONFORMITY



We,

Redexim B.V.

Kwekerijweg 8

3709 JA Zeist, The Netherlands

declare that this “EU - DECLARATION OF CONFORMITY” is issued under our sole responsibility and belongs to the following product:

VERTI-AIR® 400 WITH MACHINE NUMBER AS INDICATED ON THE MACHINE AND IN THIS MANUAL,

to which this declaration refers, complies with stipulation of:

2006/42/EC Machinery Directive

and with the standards:

ISO 12100-1:2010 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 4254-1:2015 Agricultural machinery - Safety - Part 1: General requirements

Zeist, 03-01-2022

A handwritten signature in blue ink, appearing to read 'C.H.G. de Bree'.

C.H.G. de Bree

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UK - DECLARATION OF CONFORMITY



We,

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Kwekerijweg 8
3709 JA Zeist, The Netherlands

declare that this “UK - DECLARATION OF CONFORMITY” is issued under our sole responsibility and belongs to the following product:

VERTI-AIR® 400 WITH MACHINE NUMBER AS INDICATED ON THE MACHINE AND IN THIS MANUAL.

to which this declaration refers, complies with stipulation of:

**S.I. 2008 No. 1597 HEALTH AND SAFETY The Supply of Machinery (Safety) Regulations 2008
and with the standards:**

ISO 12100-1:2010 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 4254-1:2015 Agricultural machinery - Safety - Part 1: General requirements

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C.H.G. de Bree
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FOREWORD

Congratulations on your Verti-Air® 400 purchase. For safe and long-lasting operation of this machine, it is necessary to read and to understand this user manual. It is impossible to work safely with this machine without complete knowledge of the content of the user manual.

This machine does not operate independently! It is the user's responsibility to use the correct tractor or other towing vehicle. The user should check the combination of the towing vehicle and the machine with regard to various aspects, such as noise level and safety risks. In addition, the user should comply with the user instructions of the vehicle and spare parts that are used.

All information and technical specifications provided at the moment that this document is published are the most recent ones. Design specifications may be changed without prior notice.

You can contact your sales point or dealer if you have questions and/or if there are ambiguities in this manual or about the machine concerned.

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

WARRANTY CONDITIONS

The warranty, which applies to this product, is described in the "General sales and warranty conditions" under article 12 "Warranties" and is available on the Redexim website. You can use the QR code or URL below for this purpose.



<https://www.redexim.com/general-sales-and-delivery-conditions/>

PRODUCT REGISTRATION

Register your product with Redexim for faster technical support, notifications, exclusive news, offers and much more. You can use the QR code or URL below to do so.



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1. SAFETY INSTRUCTIONS

This machine is designed for safe use. This can only be achieved if you completely follow the safety instructions described in this manual.

Read and understand the manual before you start using this machine.

If the machine is not used as described in this manual, this can result in injuries and/or damage to the machine.

This user manual lists instructions that are numbered in sequence. You should follow this sequence. A

 is an indication of a safety instruction. A  means a tip and/or note.

1.1. Obligations of the user

This machine is intended for blowing away leaves on large areas only. Any other use is improper. The manufacturer will not accept any liability for damage resulting from improper use. All risks occurring with this are entirely at the expense of the user.

All persons assigned to operate, maintain and repair the machine by the owner must completely read and understand the operation manual and in particular the chapter of Safety Instructions.

Modifications to the machine that have a negative impact on the safety must be rectified immediately.

The user is obliged to check the machine for visible damage and defects before using the machine.

For safety reasons it is not permitted to make changes or adjustments to the machine (except those approved by the manufacturer). If modifications to the machine have been made, then the current CE / UKCA marking is cancelled. The person that has made these modifications has to apply for a new CE / UKCA marking himself.

Following the use, maintenance and repair instructions prescribed by the manufacturer is also considered proper use of this machine.

The user is responsible for the safe combination of the machine and the towing vehicle, which comply with the requirements as described in the Technical Data (see Chapter 2). This entire combination should be tested for noise, safety, risk and user friendliness. User instructions should also be drafted.

Dress appropriately during work activities with the machine. Wear sturdy shoes with steel toe caps, long trousers and tie up long hair. Do not wear loose clothing.

The general applicable health & safety (Dutch: ARBO) regulations must also be followed in addition to the instructions in this user manual.

Relevant traffic regulations also apply in case of using public roads.

1.2. Maintenance, repairs and adjustments

Keep a record of the repair activities.

When unskilled people use, maintain or repair the machine, this could result in injuries to the user and to third parties. This should be avoided!

Use only original Redexim parts for maintenance or repairs because of the safety of the machine and of the user.

Only authorised technical personnel may carry out repairs to the machine.

When carrying out maintenance, adjustments and repairs, it is necessary to block the machine in order to prevent it from sinking away, driving off and/or sliding off.

If a hydraulic installation is present, you should **always** make it pressure-free before working on this installation.

Used oil / grease is harmful to the environment. Dispose of these substances according to the regulations that apply in your location.

1.3. Using the machine

Attach the machine to the towing vehicle according to the regulations. Pay close attention to the risk of injury!

Never use the machine in the absence of protective guards and safety stickers.

Check the machine for loose bolts, nuts and components before every operation.

Check whether you have a clear field of vision – both close by and far away – before you start moving.

All persons that are going to operate the machine must be familiar with all the functions and control elements of the machine before starting any work activities.

Never crawl under the machine! If necessary, tip over the machine to work at the bottom side.

If present, check the hydraulic hoses regularly and replace these when the hydraulic hoses are damaged or appear old.

2. TECHNICAL DATA

Type	400
Recommended vehicle	33HP with minimal lifting capacity 245kg (540lbs) 610mm (24") behind the lifting eyes
Required PTO power	25HP
PTO speed	540RPM CCW (type A) 1000RPM CW (type B) 1000RPM CCW (type D) 540RPM CCW (type E)
Hydraulic connections exhaust control	1x double acting
Requirements hydraulic drive (Type C)	Pressure: 170bar continuedly 187bar pulsating 204bar max Flow: 10,5l/min minimum 65 l/min max
Working speed	Depending on the conditions and the required result
Weight	245kg (540lbs)
Dimensions (LxWxH)	1.4x0,95x1,0m (55"x 37,4"x39,3")
Three-point system	Cat. 1-2
Fan diameter	383mm (15")
Aircapacity	285m ³ /min 10.064cu ft/min
Airspeed	225km/h (139mph)
Noise level	85 dB
Oil gearbox	80W90 GL5 (1.1L / 1.16qts)
Grease bearings	Ceran XM 220
Options	- Linkage Implement Triangle Cat. 0. - Linkage Implement Triangle Cat. 1,2,3.

3. GENERAL DESCRIPTION

The Verti-Air® 400 is a machine intended for blowing away leaves on large areas only.

The Verti-Air® 400 is a 3-point machine. You will need a tractor in order to use the Verti-Air® 400.

4. SAFETY STICKERS

Safety stickers are attached on the machine. These safety stickers must always be clearly visible and legible and must be replaced if they have become damaged (Fig. 1).`

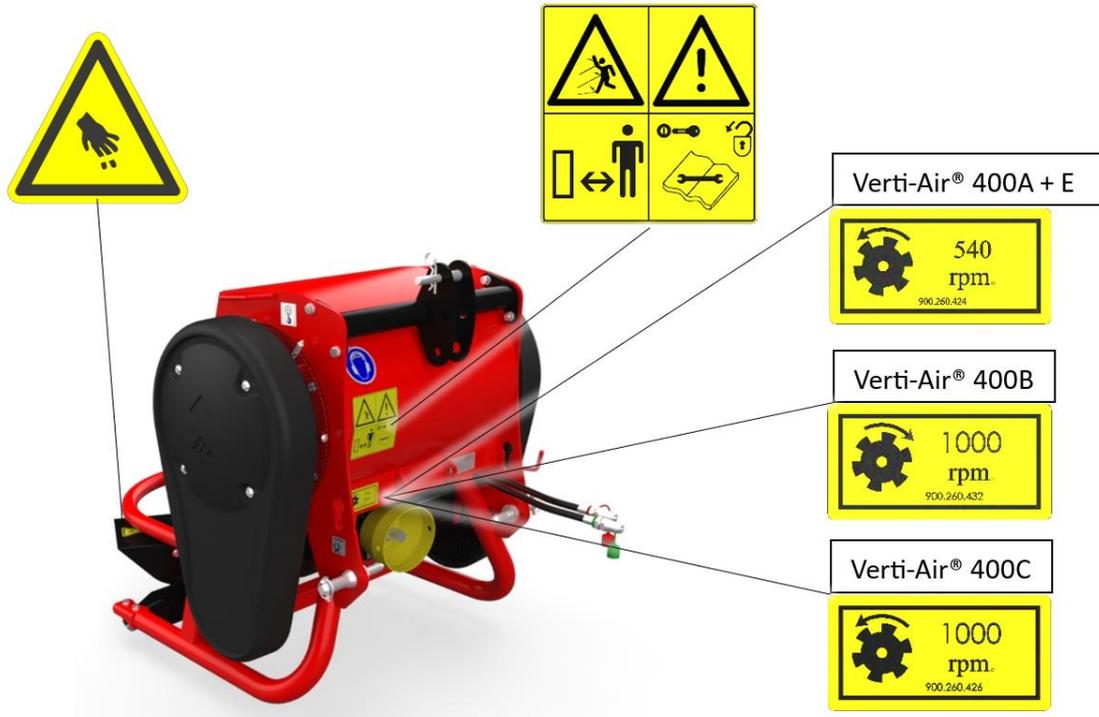


Fig. 1

 <p>933.280.402</p>	<ul style="list-style-type: none"> - Prior to using the machine, the operators of the machine must read the user manual carefully. - In case of maintenance, adjustments and repair, always switch OFF the engine of the towing vehicle and the PTO. Prevent the combination from driving and/or sliding away. - Keep a distance of minimum 4 metres if the machine is operating (except the operator sitting in the towing vehicle). - During operation, NO persons are allowed within the danger zone of the machine, because there is danger of physical injuries caused by moving components
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 <p>900.260.424</p>  <p>900.260.432</p>  <p>900.260.426</p>	<ul style="list-style-type: none"> - You can operate the machine safely, if the PTO does not exceed the stated rpm.
 <p>900.280.404</p>	<ul style="list-style-type: none"> - Be careful not to get any parts of your body jammed.
 <p>911.340.410</p>	<ul style="list-style-type: none"> - Use certified hearing protection when using the machine.

5. FIRST INSTALLATION

The machine should be prepared for use as follows (see Fig. 2 and Fig. 3):

⚠ Make sure that the cable/crane/lift can lift at least 2x the weight of the machine.

For the correct machine weight, see chapter 2 "Technical data".

⚠ Never crawl under the machine.

1. Remove the cross sections (1), PTO (2) and roller clamps (3) from the pallet.
2. Carefully lift the machine by the lifting points (4) to just above the pallet (6).

⚠ Keep a safe distance. The machine turns / slides away during hoisting / lifting.

3. Remove the pallet (5) and lower the machine back onto the ground.
4. The machine is ready for its first use.

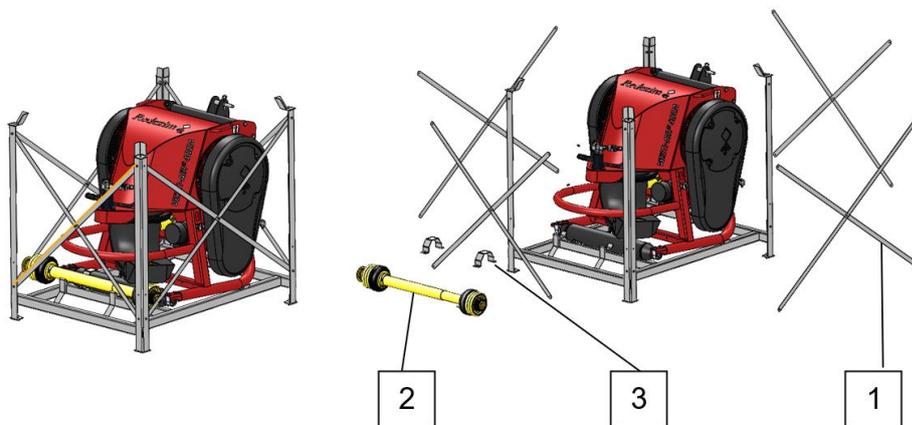


Fig. 2

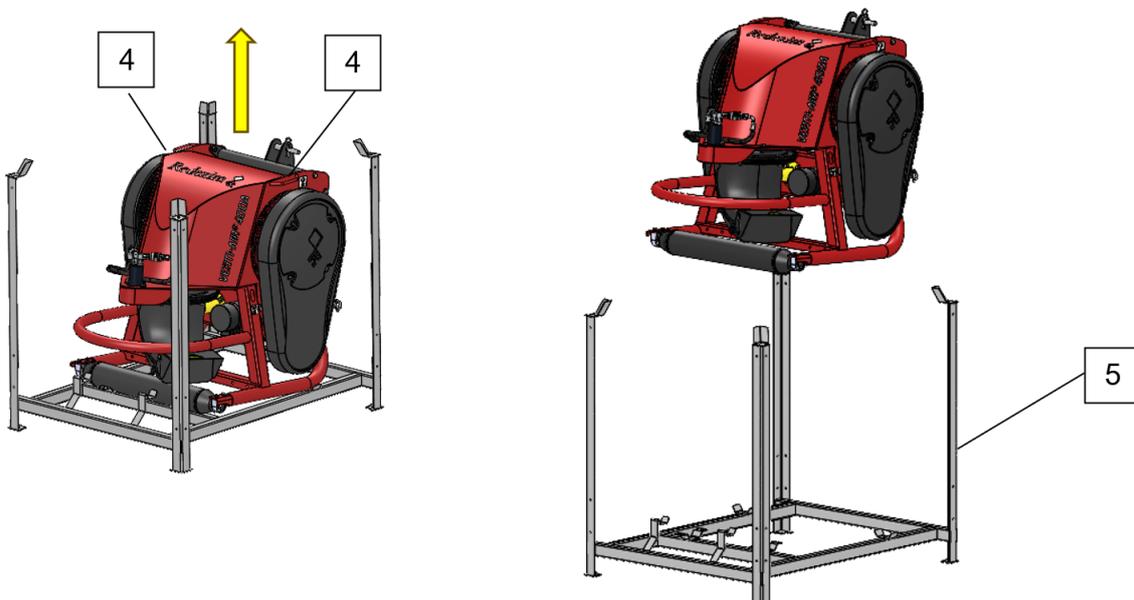


Fig. 3

6. THE PTO SHAFT

 The description below is only an indication of how to customise the PTO shaft. The instructions described in the specific manual supplied with the PTO shaft are always leading.

The PTO shaft is a very important component that takes care of the drive from the tractor to the machine. The PTO shaft ensures safe use of the machine on condition that it is properly installed and maintained. The PTO has its own CE certification and manual. These are delivered together with the PTO shaft. For specific adjustments see the details given on the PTO page in the parts book. Do not exceed the given values. This can lead to an unsafe situation and overload the machine, resulting in damage.

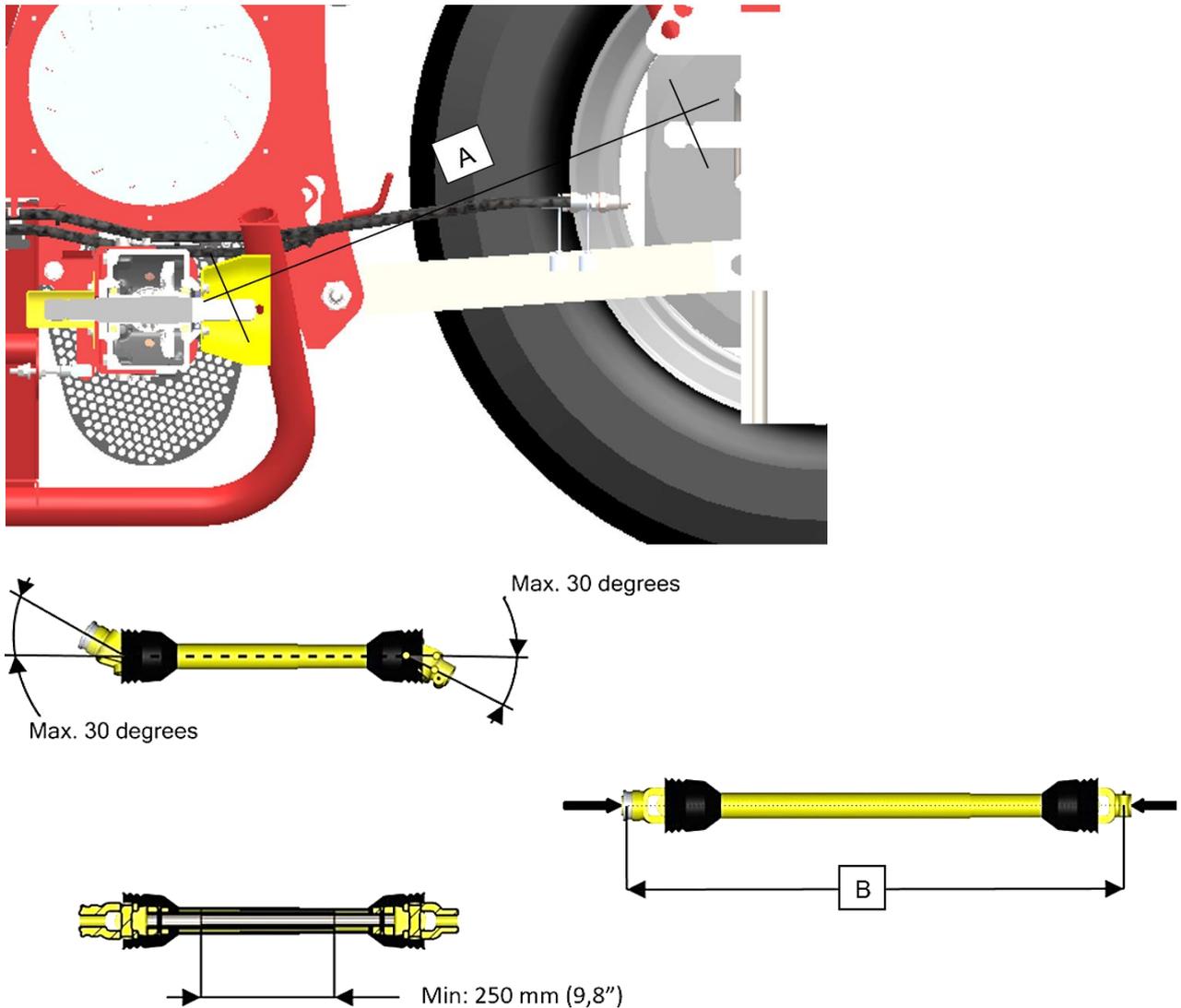


Fig. 4

6.1. Length of the PTO shaft

The length of the PTO shaft is very important. If it is too long, it can damage the drive of the tractor and/or the machine. If the overlapping length of the cylinders becomes less than 250 mm (9.8") at any time, it can damage the PTO shaft. The required length changes when the machine is lifted or when a different tractor is used! If a new machine is purchased or if another towing vehicle is used, the length of the PTO shaft should be checked and, if necessary, shortened (Fig. 4).

1. Measure the distance 'A' (from groove to groove) between the tractor's PTO and the machine's connection point, when the machine is horizontal on the ground and the tractor is attached.
2. Measure the distance 'B' of the PTO shaft in its shortest position from the locking pin to the locking bolt.
3. Divide the PTO shaft in two parts and remove the protection cap at both ends.
4. The ends of the cylinders *and* the protection caps should be shortened: $(B-A) + 125 \text{ mm}$ (4.9").
5. Smooth off all components and then assemble all components. For this purpose, use lubrication grease.
6. Mount the PTO shaft including the slip coupling at the machine side.
7. Attach the other end of the PTO shaft to the tractor.
8. Check the overlap of the cylinders.



Never use the machine if it has a damaged PTO protection cap. First replace the protection parts.



If the PTO is not shortened correctly or used in combination with a different vehicle this may cause damage to the gearbox.

6.2. Using the PTO shaft

The following items must be checked for correct use of the PTO shaft:

1. The angle of the rotation points should always be smaller or equal to 30 degrees during work activities.
2. The PTO shaft of the tractor must be parallel to the PTO shaft of the machine.
3. The overlap of the cylinders must always be minimum 250mm (9.8").
4. Never use the machine if it has a damaged PTO protection cap.
5. See the PTO manual for information about lubrication.

7. ATTACHING AND DETACHING THE MACHINE

Attaching and detaching the machine has to be done carefully. Follow the instructions below:

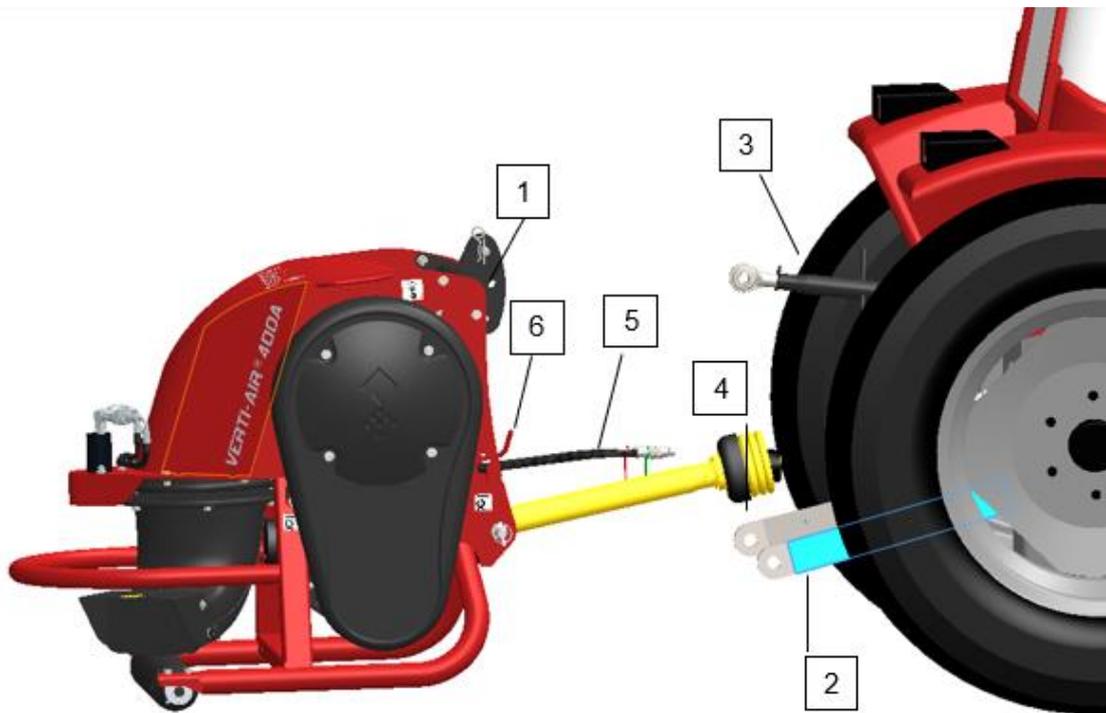


Fig. 5

7.1. Attaching the machine

Prior to attaching the machine, check the following points:

- Check whether the machine is undamaged and whether it is safe to attach and use the machine.
- Check fasteners for the correct fastening torque
- Check whether all safety stickers are on the machine and whether these are undamaged and easily readable.

The machine should be attached to the tractor in the following manner (Fig. 5):

1. Remove the top 3-point pin (1) from the machine.
2. Carefully drive the tractor backwards until the lifting arms (2) can be attached to the machine.



Make sure that the tractor and the machine cannot move while you are attaching them.



Switch off the tractor engine *before* attaching the machine.

3. Attach the lifting arms (2) to the machine using the 3-point pins. Lock the pins using the clips.
4. Set the stabilizer of the lifting arms (2) to 100 mm lateral stroke.
5. Mount the top rod (3) onto the tractor and attach it to the machine. Adjust the length of the top rod until the PTO-shaft of the machine is horizontal.

 **If the machine is not correctly mounted behind the tractor, different PTO angles can cause vibrations in the machine's drivetrain. These vibrations can damage the machine.**

6. Connect the PTO (4) between the machine and the tractor. (free-running clutch on machine side)
7. Connect the hydraulic hoses (5) to the tractor.

 **Make sure that the 3-point pins are locked using the clips.**

8. Start the tractor and lift the machine.

7.2. Detaching the machine

The machine should be detached in the following manner: (Fig. 5)

1. Take the attached machine to the storage location.

 **Make sure the storage location has a stable level surface and can support the machine weight.**

 **Make sure that the tractor and machine cannot move uncontrolled.**

 **Switch off the tractor's engine and PTO before getting off the tractor.**

2. Place the machine gently onto the surface.

 **Check again if surface can support the machine weight.**

3. Disconnect the top rod (3) and remove this.
4. Disconnect the lifting arms (2).
5. Disconnect the hydraulic hoses (5) from the tractor and store these.
6. Disconnect the PTO shaft (4) from the tractor and place this onto the support (6).
7. Start the tractor and drive carefully away from the machine.

8. TRANSPORT

The user is responsible for transporting the machine on public roads. Verify the national legislation regarding the regulations. In view of the machine's weight, it is not advised to drive faster than 20 km/h (12.4mph with a raised machine). Higher speeds can lead to hazardous situations and result in damage to the machine and tractor.



When the machine is raised off the ground, the front shaft of the tractor has to support minimum 20% of its weight.

If the machine is not transported by being towed by the tractor, the machine may be secured / hoisted at the following points (Fig. 6):

 <p>141850</p> <p>922.340.008</p>	<p>Fixation points located near these stickers.</p>
 <p>133808</p> <p>953.340.000</p>	<p>Hoisting points located near these stickers.</p>

1. Hoisting points (2x), for hoisting the machine.



Keep a safe distance, the machine may turn or slide away during hoisting.

2. Points for securing the machine (4x), are positioned at both sides of the machine.



Fig. 6

9. PUTTING THE MACHINE INTO OPERATION

9.1. Safety

Before starting to use the machine, check the following:

1. Are there any loose objects on the field, other than what this machine is intended for? Remove them first or keep a sufficient distance from them.
2. Are there are persons within the danger zone of the machine, postpone the work or keep sufficient distance.



Check the compatibility of the drive system and vehicle at first use. Working at full PTO rpm in the wrong driving direction (CCW or CW) may cause damage to the rotor.



If the machine cannot be operated safely, postpone the work.

3. Are there slopes? The maximum slope is 20 degrees for this machine. Always work from the top down.
4. Make sure to always have the working area in sight.
5. Are there firm object above ground? If so, use the machine with adjusted speed and work around them or lift the machine.



The rear roller of the Verti-Air® 400 is Anti-scalp protection and not for dept control; the machine should be operated a little above ground.

6. Is there danger of objects or distraction of the driver? If so, the machine CANNOT be used.
7. Is there danger for sinking/sliding away or damaging the soil? If so postpone the work.
8. Do NOT make sharp turn when the machine is touching the ground.

9.2. Running-in period

Your machine has been tested in the factory. The drive has been running at 540 rpm for at least 10 minutes and the V-belts have been adjusted to the correct pre-tension. This does not change the fact that the V-belts continue to require your attention during the running-in period and still need to be adjusted. It is important not to overload the drive system on the first day of work. The drive needs to set even more, especially the V-belts.

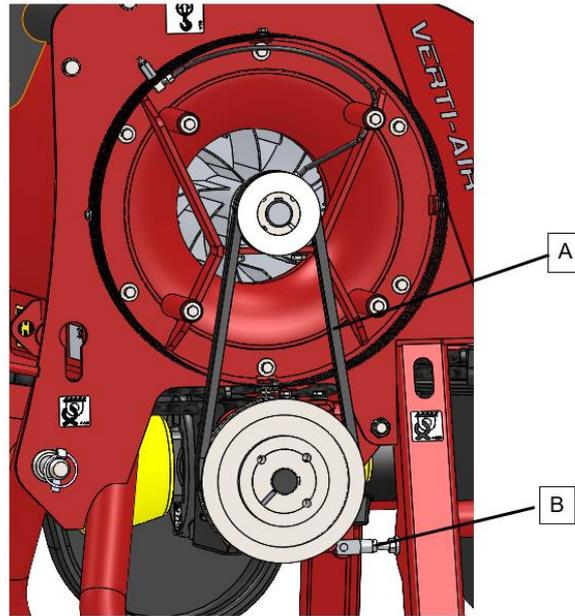


Fig. 7

Therefore, after the first day, the V-belts should be readjusted (Fig. 7).

1. Turn off the tractor and remove the key from the ignition. Remove the V-belt guard and check the V-belt tension at location A.
2. If necessary, adjust it with the adjustment bolts (2x) (B).
3. Check for loose bolts etc.
4. Apply loctite to the bolts (m8 4x) and mount the side cover.

The procedure should be repeated according to the maintenance schedule (12.1).

You can also depress the V-belt by placing a 50x150x12mm L-shaped tool or Allen key between the protective caps and pressing it against the belt.

9.3. Working speed

The maximum working speed of the machine depends on the desired result, the situation of the environment and is limited to 12 km/h (7.5 mph). A higher speed is not recommended due to excessive wear and possible damage of the machine.



If the circumstances require, the working speed should be reduced.

9.4. Start/Stop procedure

The start procedure is very important. If this procedure is not executed as described below, it might result in serious damage to the machine.

The start procedure is as follows:

1. Check the machine for any loose components and look whether all components function properly.



If loose components are observed or components do not function properly, the problems must be solved before using the machine.



Always lower the machine carefully.

2. Drive to the location where the work should take place.
3. Lower the machine until floating just above ground.
4. Rotate the exhaust to the desired direction.
5. Adjust the tractor engine to around 1200 rpm.
6. Switch ON the PTO.
7. Put the tractor in the correct gears and drive forwards.
8. Increase the PTO's revolutions to the maximum allowed value as stated on the machine (540 or 1000RPM) or until the material is properly removed.

For the Hydraulic driven version you should engage the oilflow instead of the PTO.



**Always be aware of thrown objects. These objects may cause damage or injuries.
Lower PTO rpm if required.**

9. Check the result and adjust the RPM and driving speed if necessary.

The stop procedure is as follows:

1. Reduce the PTO rpm.
2. Disengage the PTO and lift the machine if necessary.
3. The impeller continues to run freely after the PTO is switched off.



Do not re-engage the PTO until the rotor has fully stopt rotating.

4. Go to the next location and start again as described.

10. TECHNICAL INFORMATION

In general the Verti-Air® 400 is not a complicated machine. A number of technical items will be explained. If you have further questions regarding this machine, please contact your dealer.

10.1. Hydraulic: changing the exhaust position

The blowing direction is controlled by a hydraulic motor with double connections for all types Verti-Air® 400, except type E. The speed of rotating is set and should not be altered.

The exhaust position is changed by using the hydraulics of the tractor.

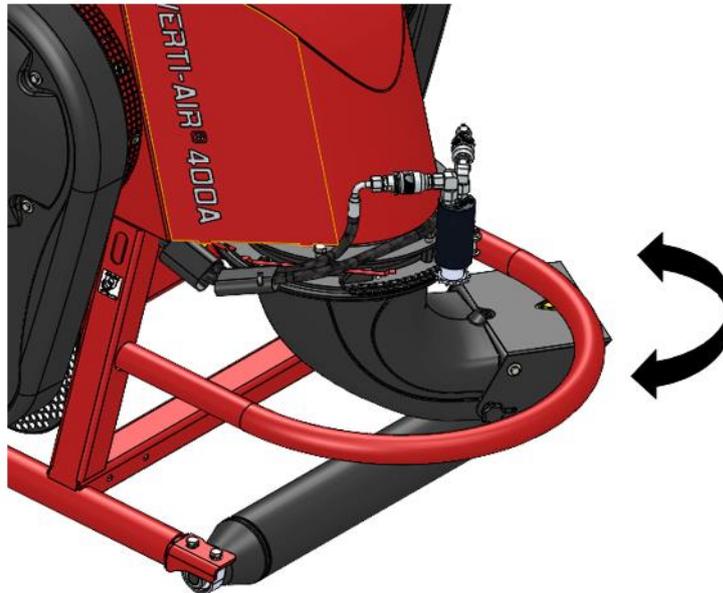


Fig. 8

10.2. Electric: changing the exhaust position

On the electric controlled version, Type E, the blowing direction is controlled by an electric motor. The speed of rotating is set and cannot be altered.

The exhaust position is changed by using the switch of the control box

11. OPTIONS

For the Verti-Air® 400 the following options are available

11.1. Implement Triangle Cat. 1,2,3

For easy attachment of the Verti-Air® 400 Implement Triangle Cat. 1,2,3 is available (Fig. 9). Itemnumber 245.000.008, see image below, this kit consists of the frame and the fastening materials needed.

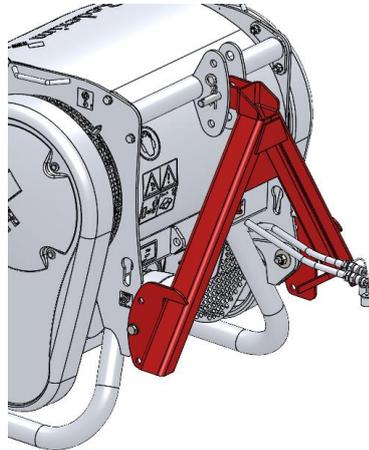


Fig. 9

11.2. A-frame Cat.0

For easy attachment of the Verti-Air® 400 to smaller vehicles the A-frame Cat.0 is available (Fig. 10). Itemnumber 245.000.010, see image below, this kit consists of the frame and the fastening materials needed.

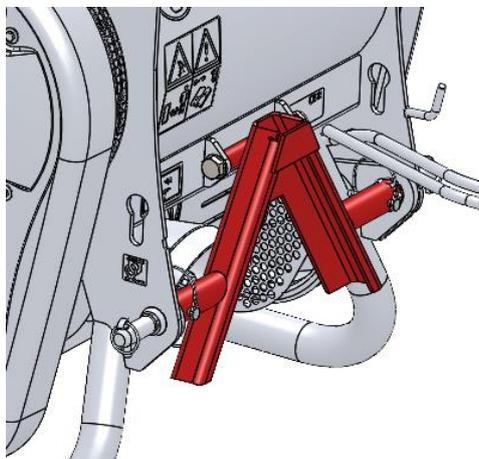


Fig. 10

12. MAINTENANCE

12.1. Maintenance schedule

Time schedule	Check point	Work activities
Before every use	Check for loose parts, bolts and nuts	Tighten loose bolts / nuts with the correct tightening moment
	General check	Attach the machine to the tractor and operate the machine for 5 minutes. Listen and observe any strange movements / sounds
	Check for oil leakage	Fix issues. If necessary, top up the oil in the gearbox with: 80W90 GL5 (1.1L / 1.16qts) or until level is reached
	Safety stickers	Presence and readability of the safety stickers. Replace these if not present or damaged.
	Loose hanging parts around the PTO.	Tighten the parts so that they cannot reach the PTO.
After the first 20 working hours (new or repaired)	Lubricate the PTO and bearings.	Use 2 shots of Ceran XM 220 grease. See Section 12.4 for the positioning of the grease points.
	Check the tension of the V-belts	If needed re-tighten the belts according to 12.2
	Check for loose parts, bolts and nuts	Tighten loose bolts / nuts with the correct tightening moment
	General check	Attach the machine to the tractor and operate the machine for 5 minutes. Listen and observe any strange movements / sounds
	Check for oil leakage and the oil level in the gearbox.	Fix issues. If necessary, top up the oil in the gearbox with: 80W90 GL5 (1.1L / 1.16qts) or until level is reached
	Loose hanging parts around the PTO.	Tighten the parts so that they cannot reach the PTO.
After the <u>first</u> 50 working hours	Change the oil in the gearbox.	Use 80W90 GL5 (1.1L / 1.16qts) Or until level is reached
After <u>every</u> 50 working hours	Lubricate the PTO and bearings.	Gebruik 2 Ceran XM 220 smeervet. Zie Hs.12.4 voor positionering smeerpunten.
	Check for loose parts, bolts and nuts	Tighten loose bolts / nuts with the correct tightening moment
	General check	Attach the machine to the tractor and operate the machine for 5 minutes. Listen and observe any strange movements / sounds
	Check the tension of the V-belts	If needed re-tighten the belts according to 12.2

After every 500 workhours or every year	Change the oil in the gearbox.	Use 80W90 GL5 (1.1L / 1.16qts)
	Check the tension of the V-belts	If needed re-tighten the belts according to 12.2
	General check	Attach the machine to the tractor and operate the machine for 5 minutes. Listen and observe any strange movements / sounds

12.2. V-belt Tension

Having the right amount of tension on the V-belt is of great importance in order to guarantee proper working and endurance of V-belts and the machine.
belt tension at location A, Fig. 7.

The right tension is achieved when you are able to impress a single V-belt between the pulleys, at location A, Fig. 7, approx. 8mm (0,3inch) inwards with the force stated below:

New V-Belts	4,8 kg (10,8lbs)
Normal run in belts	3,2 kg (7lbs)
If force is below	2.6 kg (5,7 lbs) tighten V-belt to 3.4 kg (7,5lbs)

Adjust it with the adjustment bolts (2x) (B).

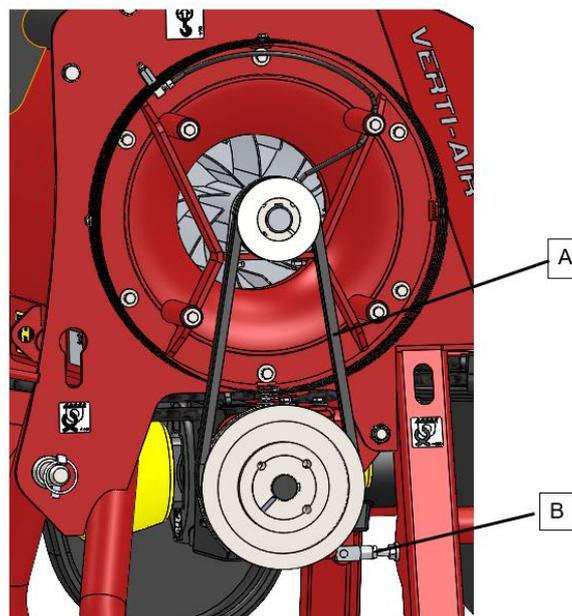


Fig. 11



Always replace all V-belts at the same time.



It is recommended to relief the V-belt tension if the machine is not being used for a longert time. Relief the tensioning bolt (B) a few turns.

12.3. Cleaning

If a high-pressure cleaner is used to clean the machine, then observe the following rules:

- Do not use aggressive cleaning agents that can affect 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 nozzle directly at the bearings, oil seals, lubrication points and stickers.
- Keep a minimum distance of 0.5 m (1.6 ft) between the head of the high-pressure cleaner and the surface you want to clean.



Grease the bearing points after cleaning the machine.

12.4. Lubrication points

To guarantee the proper functioning of the machine, the lubrication points (2x) at both sides of the rotor and the one on behind the pulley must be greased periodically (Fig. 12). Grease these points according to the maintenance schedule (12.1). for your convenience the lubrication points are accessible from outside the machine.

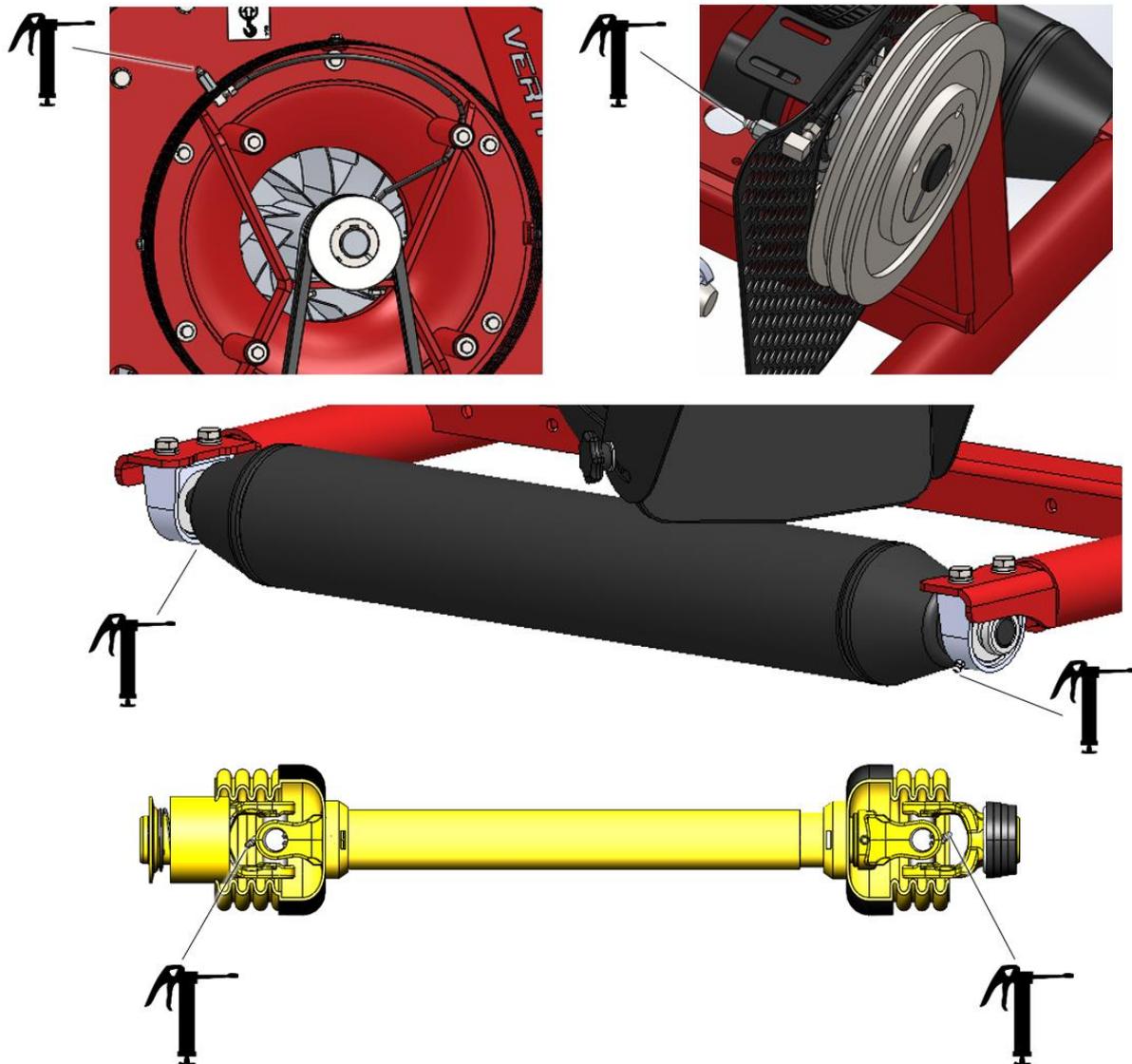


Fig. 12

12.5. Changing gearbox oil

The oil in the gearbox should be changed periodically, see maintenance schedule (12.1), proceed as follows:

1. For a few minutes, let the machine run above the ground so that the oil becomes warm.
2. Stop the machine and lower it onto the underground so that it is parallel to the underground.



Switch off the tractor's engine and PTO before descending.



Make sure that the tractor and the machine cannot move uncontrolled.



Never crawl under the machine !!! Watch out because the oil can be hot and injure the skin.



Used oil / grease is harmful to the environment. Dispose of these substances according to the regulations that apply in your location.

3. Make the gearbox accessible by removing the side cover, V-belts and drive cover and tilt the tensioner forward, see Fig. 13 and the partspage for details.
4. Remove the breather ((1) Fig. 14).
5. Suck the gearbox empty using an oil pump or - as an alternative - put a sufficiently large oil receptacle (more than 2,5 ltr. (0.66 gal.) under the plug (2) Fig. 15 and remove the plug (2).
6. Check the contamination of the oil. Steel particles in the oil might indicate a problem.
7. Mount the plug (2).
8. Fill the gearbox using the amount stated in the schedule through the opening of the breather (1).
9. Mount the breather (1).
10. Mount the drive cover and place the V-belts back.
11. Set the V-belt tension according to 12.2.
12. Mount the side cover and apply Loctite.

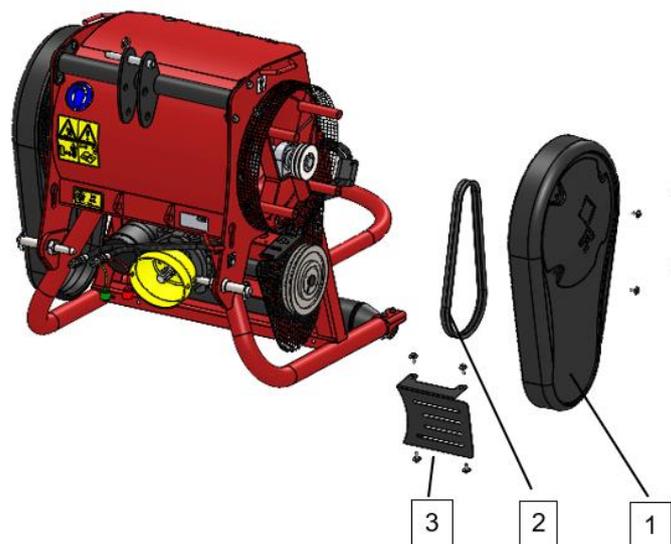


Fig. 13

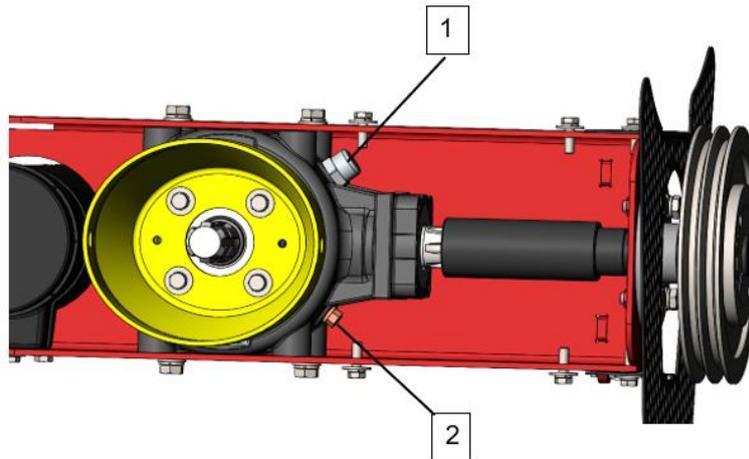


Fig. 14

13. TROUBLESHOOTING (PROBLEM ANALYSIS)

Problem	Possible cause	Solution
Machine vibrates.	<ul style="list-style-type: none"> - PTO shafts do not align - Wear & tear - V-belts have a tough spot after a long stand still 	<ul style="list-style-type: none"> - Change the length of the toplink until the shafts align. - Check the drive system and rotor. - Let the machine run for a longer period. - Replace V-belts
Material does not get blown away	<ul style="list-style-type: none"> - Inlet(s) are blocked - Exhaust is blocked - Drive rotation is wrong - Exhaust facing the wrong way 	<ul style="list-style-type: none"> - Remove material from mesh. - Reposition the exhaust flap. - Check the direction of rotation of the tractor and the machine. - Turn the exhaust.
Machine makes noise	<ul style="list-style-type: none"> - Drive rotation is wrong - V-belts slip - Wear & tear - Loose parts on machine 	<ul style="list-style-type: none"> - Check compatibility drive system and vehicle and act accordingly. - Check tension and V-belt quality and act accordingly. - Check the drive system and rotor. - Check machine for non-fixed items.
Oil leakage	<ul style="list-style-type: none"> - Hydraulics are leaking 	<ul style="list-style-type: none"> - Check hydraulics of machine for leakage and act accordingly
Exhaust does not turn	<ul style="list-style-type: none"> - Hydraulic motor does not work - Electric motor does not work 	<ul style="list-style-type: none"> - Check the hydraulic system. - Check the electric system.