

# DROSER TS110

280  
550

Maintenance  
/ Repair  
/ Operating  
Hand Book



for



[www.terra-implements.it](http://www.terra-implements.it)



**MAINTENANCE-REPAIR AND OPERATING HAND BOOK**  
**OPERATING MANUAL SPARE PARTS CATALOGUE**





Dear Farmers;

It is important to complete the agricultural works and processes in time and as fast as possible. Performing higher-quality production in a shorter term is only possible through new and advanced production technologies.

In this sense, as DAMILANO GROUP we work on Modern agricultural machines in order to make your crops abundant and profitable.

As DAMILANO GROUP, which continuously make innovations and advancements for you to earn more while spending less effort, we are always at your side with our experience for more than a quarter century.

We always apply changes on our machines which we manufacture every year in accordance with technological developments of European firms and try to manufacture a better one than before.

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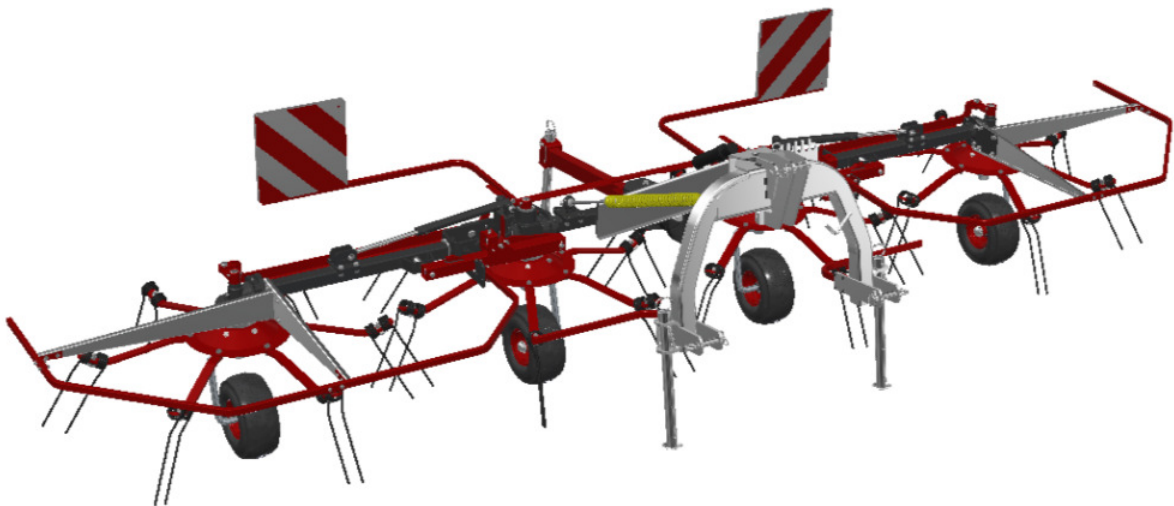
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## 1. INTRODUCTION

### 1a. Manual Content

This operating manual is prepared for you to run and operate your machine correctly and properly and utilize from its specifications completely. You dispose any potential problems and maintain your machine for a long physical life by following the instructions in the operating manual.

This operator's manual is an integral part of the safe operation of this machine and must be maintained until the end of its life at all times. READ, UNDERSTAND, and FOLLOW, the Safety and Operation Instruction contained in this manual before operating the equipment.



### 1b. Purpose of the instruction manual

This manual contains all the information necessary for a correct assemblage, use, operation and maintenance of the harrowing machine manufactured by TERRA-IMPLEMENTS.

These instructions provide a specific knowledge of the machine and of its features, of the necessary operations in order to identify and eliminate the most common defects and of the maintenance procedures. The illustrated spare parts catalogue allows identifying and procuring all the necessary spare parts to carry out the machine's scheduled and special maintenance.



The technical information contained in this manual is the property of TERRA-IMPLEMENTS and must be treated as confidential. It is therefore forbidden to divulge or to reproduce such data, even partially, without TERRA-IMPLEMENTS written authorization.









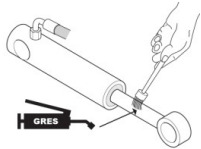
## 1c. Keeping the instruction manual

This manual should be kept in a good condition and should be stored in the proper manual canister so as to allow quick consultation whenever necessary.

## 1d. Warning symbols and their meanings

Particular symbols have been used in this manual to emphasize risks and/or dangerous situations as well as to catch the operator's attention on a particular operation or prescription. The same signs are placed directly on the implement.

### THE SIGNAGE IN THE MAINTENANCE, REPAIR AND OPERATING HAND BOOK AND THEIR MEANINGS :

		
<p>Attention</p>	<p>20 Km/h Speed Limit</p>	<p>Important and Considerable Point</p>
		
<p>While Pulling the Machine by a Tractor Nothing Can be Loaded or Pulled by the Machine</p>	<p>It is Dangerous and Forbidden for Machines Wider than 3 Meters to be on any Highway</p>	<p>Please, Check Whether There is any Loose Bolts or Nuts, if any Please Tighten</p>
		
<p>Please, Lubricate any Grease Nipples</p>	<p>Please, Lubricate by Using Thin Oil</p>	<p>If, the Machine Will Not Run for a Long Time, Please Lubricate the Hydraulic Lift Shafts</p>

**THE SIGNAGE ON THE MACHINE AND THEIR MEANINGS**



Read the Maintenance Book Before Running the Machine.



Always Stop the Engine Before any Maintenance.



Do not stand between the Machine and Tractor while they are connected.



Do not come close to turning parts, they can cut your hand.



It is dangerous and forbidden to get on the machine.



Thrown object hazard, do not approach the machine. Keep a safe of at least 50 meters from the machine.



Risk of injury, wait until the machine has completely stoppe before approaching.



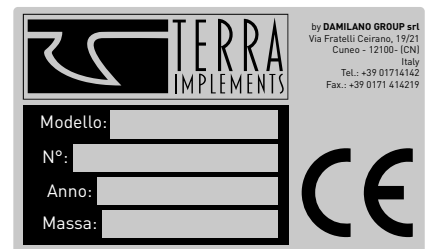
Keep away from rotating elements to prevent serious injury or death.



Please, lift and lower the machine only through these point.



CE Mark



The Product Detail and Factory Introduction Label

**1e. Warning simbols and their meanings**

Depending on the type of job to be carried out, the operators must be equipped with the appropriate protective equipment such as:



Safety gloves



Safety glasses



DROSERA

## 2. GENERAL INFORMATION

### 2a. Manufacturer identification data



**damilano**  
**group**



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## 2b. Description

The Drosera has been developed for customary agricultural operations ("intended use") to the exclusion of all others. This tedder has the ability to ted mown fodder crops or widespread crop swaths. The tedder is equipped with two wheels positioned closely behind the tines to follow ground contours accurately.



Any other type of use is considered as contrary to the intended use, therefore the manufacturer accepts no liability for any damage resulting from this misuse. Any risks resulting from non-intended use must be born solely by the user.



Never allow children to play on or around Tractor or Implement. Children can slip or fall off the Equipment and be injured or killed. Children can cause the Implement to shift or fall crushing themselves or others.

## 2c. Technical Data



ROTARY TEDDERS MODELS		TOWED TEDDERS		TEDDERS	
		280	550	280	550
Requested power	HP	18/25	30/35	18/25	30/35
Max. speed of PTO shaft	r.p.m.	540	540	540	540
Width in transport position	m.	2,85	3,00	2,85	3,00
Weight	kg.				
No. of rotors	No.	2	4	2	4
No. arms for rotors	No.	6	6	6	6
Tyres			/		/
Tyres 15 x 6.00-6		/	standard	/	standard
Inflation pressure	bar.	2,0	2,0	2,0	2,0
Permanent noise level	dB	70	70	70	70

### 3. SAFETY

#### 3a. General Warnings




The first section of this manual includes a list of Safety Messages that, if followed, will help protect the operator and bystanders from injury or death. Read and understand these Safety Messages before assembling, operating or servicing this Implement. This equipment should only be operated by those persons who have read the manual, who are responsible and trained, and who know how to do so responsibly.

- Read and follow all the warning and instruction decals placed on the machine, as an additional safety guarantee. All the decals placed on the machine are shown in this manual with an explanation of their function 
- Keep the manual handy to check operational running. If the manual becomes lost or damaged, order a copy from Terra-implements.
- Avoid wearing loose clothing. The operator must wear clothing that is as tight-fitting as possible.
- Always keep the machine in excellent condition in order to avoid the risk of accidents.
- Before starting up the machine always check that there is nobody (or children) in the vicinity. Always ensure adequate visibility.
- Carrying people or other things on the machine is strictly forbidden. 
- Always connect the tedder correctly to the tractor to ensure adequate stability.
- Observe the highway code as regards transport dimensions. Check the road transportation equipment such as signaling panels, light and check all the protective casing.
- The remote controlled devices (ropes, chains, etc.) must be positioned in such a way that they do not trigger any unintentional operation in any working on transportation stages.
- Take care to avoid sharp turns. On bends pay attention to the articulated three point linkage of the tedder that must always be fixed to the relative bracket.
- Beware of the risk of pinching on the opening or closing of the external rotors, carefully follow the instructions indicated in this manual.
- Warning, no person must be allowed to stand or move between the tractor and the machine.
- This implement may be wider than the Tractor. Be careful when operating or transporting this equipment to prevent the Implement from running into or striking sign posts, guard rails, concrete abutments or other solid objects. Such an impact could cause the Implement and Tractor to pivot violently resulting in loss of steering control, serious injury, or even death. Never allow the Implement to contact obstacles.
- Be careful when transporting the Implement using the tractor. Turn curves or go up or down hills only at a low speed. Slow down on rough or uneven surfaces.


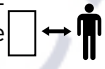
### 3b. Safety during linkage to the tractor



Make sure there are no persons (or children) near the tedder or tractor when you connect it to the tractor. Make sure the front axle weight of the tractor is sufficient and that you do not overload the tedder when it is in transport position.

- The operator and all support personnel should wear hard hats, safety shoes, safety glasses, and proper hearing protection at all times for protection from injury including injury from items that may be thrown by the equipment.
- Pinching and crushing hazard when bringing the to the transport and working position. Operate with the machine more carefully and keep others away from the area.
- Caution: do not stand between the tractor and the machine. Do not stand in the operational vicinity of the machine. 
- During transportation with the machine raised, always make sure that the control lever is locked in order to avoid accidental lowering of the machine.
- Use only drive shafts recommended by the manufacturer. Always make sure that the drive shaft guards are in good condition.
- Stop the engine and remove the ignition key and disengage the PTO before attaching or detaching the universal drive shaft. Always make sure that the drive shaft is correctly installed and perfectly secured. Prevent the rotation of the guards by using the chains provided.
- In the event of the use of a universal drive shaft complete with overload or freewheeling clutch it must always be installed at the machine end.
- Before engaging the universal drive shaft, make sure that the speed and the rotation of the PTO is compatible with the machine.
- Before engaging the PTO shaft ensure that everybody is clear of the machine.
- When the PTO is operation NOBODY must be in the vicinity of the universal drive shaft and the tedder. Never engage the PTO shaft when the tractor engine is switched off. Always disengage the PTO when the bend angle is critical. Operation to always be undertaken with the engine off and the main switch key (ignition key) removed.
- Always make sure that the hydraulic hoses are connected correctly.
- Depressurize the hydraulic system before you connect or disconnect hydraulic system.
- Make sure that there are not any foreign bodies in the machine (debris, tools, etc.) which could affect operation or cause injuries to the operator.
- Escaping fluid (hydraulic oil) under high pressure can penetrate the skin and cause serious damage.

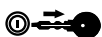
### 3c. Safety field

- Start tractor only when properly seated in the Tractor seat. Starting a tractor in gear can result in injury or death.
- NEVER use drugs or alcohol immediately before or while operating the Tractor and Implement. Drugs and alcohol will affect an operator's alertness and coordination and therefore affect the operator's ability to operate the equipment safely. NEVER knowingly allow anyone to operate this equipment when their alertness or coordination is impaired. Serious injury or death to the operator or others could result if the operator is under the influence of drugs or alcohol. 
- While working makes sure that no people or animals are within 50 m of the machine. When working near public roads or public places keep others away and be more careful. 
- Do not operate this Equipment with hydraulic oil or fuel leaking. Oil and fuel are explosive and their presence could present a hazard.
- Learn how to stop the tractor engine suddenly in an emergency. Never allow inexperienced or untrained personnel to operate the Tractor or Implement without supervision.




**PROLONGED EXPOSURE TO LOUD NOISE MAY CAUSE PERMANENT HEARING LOSS!** Tractors with or without an Implement attached can often be noisy enough to cause permanent hearing loss. We recommend that you always wear hearing protection if the noise in the Operator's position exceeds 80db. Noise over 85db over an extended period of time will cause severe hearing loss. Noise over 90db adjacent to the Operator over an extended period of time will cause permanent or total hearing loss.

### 3d. Safety after use

- Before leaving the tractor shut off the engine by removing the main switch key  (ignition key).
- Do not mount or dismount the Tractor while the tractor is moving. Mount the Tractor only when the Tractor and all moving parts are completely stopped.
- Prolonged operation may cause operator boredom and fatigue affecting safe operation. Take scheduled work breaks to help prevent these potentially impaired operating conditions.
- Never leave the Tractor and Implement unattended while the Implement is in the lifted position. Accidental operation of lifting lever or a hydraulic failure may cause sudden drop of unit with injury or death by crushing.
- Do not operate this equipment in areas where insects such as bees may attack you and/or cause you to lose control of the equipment. If you must enter in such areas, use a tractor with an enclosed Cab and close the windows to prevent insects from entering.

### 3e. Safety during maintenance

- Before maintenance, adjustment or cleaning, lower the machine to the ground, turn off the engine of the tractor, disengage power takeoff, set hand brake and remove the ignition key.
- Never attempt to clean, lubricate, repair, or adjust the universal drive shaft, unless the PTO shaft has been disengaged, the engine has been switched off and the main switch key has been removed.
- Once the universal drive shaft has been disengaged replace to PTO shaft guard.
- The machine must never be operated with a damaged or defective universal drive shaft.
- Always follow the instructions provided by the universal drive shaft manufacturer.
- Always read carefully and comply fully with the manufacturer's instructions when handling oil, solvents, cleansers, and any other chemical agent.
- KEEP AWAY FROM ROTATING ELEMENTS to prevent entanglement and possible serious injury or death. 
- Use a ladder or raised stand to access high spots which cannot be reached from ground level. Slipping and falling can cause serious injury or death.
- Use gloves and eye protection when servicing hot components. Contact with a hot surface or fluid can cause serious injury from burns or scalding.
- Do not check for leaks with your hand! High-pressure oil streams from breaks in the line could penetrate the skin and cause tissue damage including gangrene. To check for a hose leak, SHUT the unit ENGINE OFF and remove all hydraulic pressure. Wear oil impervious gloves, safety glasses and use Cardboard to check for evidence of oil leaks. If you suspect a leak, REMOVE the HOSE and have it tested at a Dealer. If oil does penetrate the skin, have the injury treated immediately by a physician knowledgeable and skilled in this procedure.
- Always maintain the safety signs in good readable condition. If the safety signs are missing, damaged, or unreadable, obtain and install replacement safety signs immediately.
- Do not modify or alter this Implement. Do not permit anyone to modify or alter this Implement, any of its components or any Implement function.
- Never attempt to lubricate, adjust, or remove material from the Implement while it is in motion or while tractor engine is running.

## 4. OPERATION

### 4a. Connect the Drosera to the tractor



Make sure there are no persons near the tedder when you connect it to the tractor.

Make sure the front axle weight of the tractor is sufficient (use front weights if necessary) and that you do not overload the Drosera when it is in the transport position.

#### Procedure:

1. Make sure the tractor is aligned with the tedder.
2. Make sure the three-point hitch arms of the tractor at an equal height.
3. Fit the lower arms to the linkage pins (cat. II) of the three-point hitch.
4. Attach the top link of the tractor to the machine with a category II top link pin.
5. Install the 3 parking jack to the top position. **(Figure 1)**
6. Secure the lower arms of the tractor with stabilization chains or rods, to eliminate any sideways movements.
7. Make sure the PTO shaft telescopes smoothly.
8. Connect the PTO shaft to the tractor PTO shaft.
9. Also check whether the PTO shaft remains clear of the headstock when the smallest possible bend is taken with the tractor. If not, make allowance for this when maneuvering and always take generous bends.
10. Remove the dust caps from the hydraulic hoses.
11. Connect the hydraulic hoses to a double-acting hydraulic tractor valve with floating position. Permitted maximum oil pressure: 21 MPa (210 bar).
12. If the machine has a lighting kit:
  - a. Connect the lighting plug to the tractor socket.
  - b. Make sure the lights work correctly.
13. Put the end of the control cord of the ram lock in the tractor cab.



The first time you connect the tedder to each tractor, refer to the instructions supplied with the PTO shaft and make sure the minimum and maximum overlap of the two parts of the PTO shaft is correct.



Always connect the safety chain of the PTO shaft to a rigid part of the tractor.

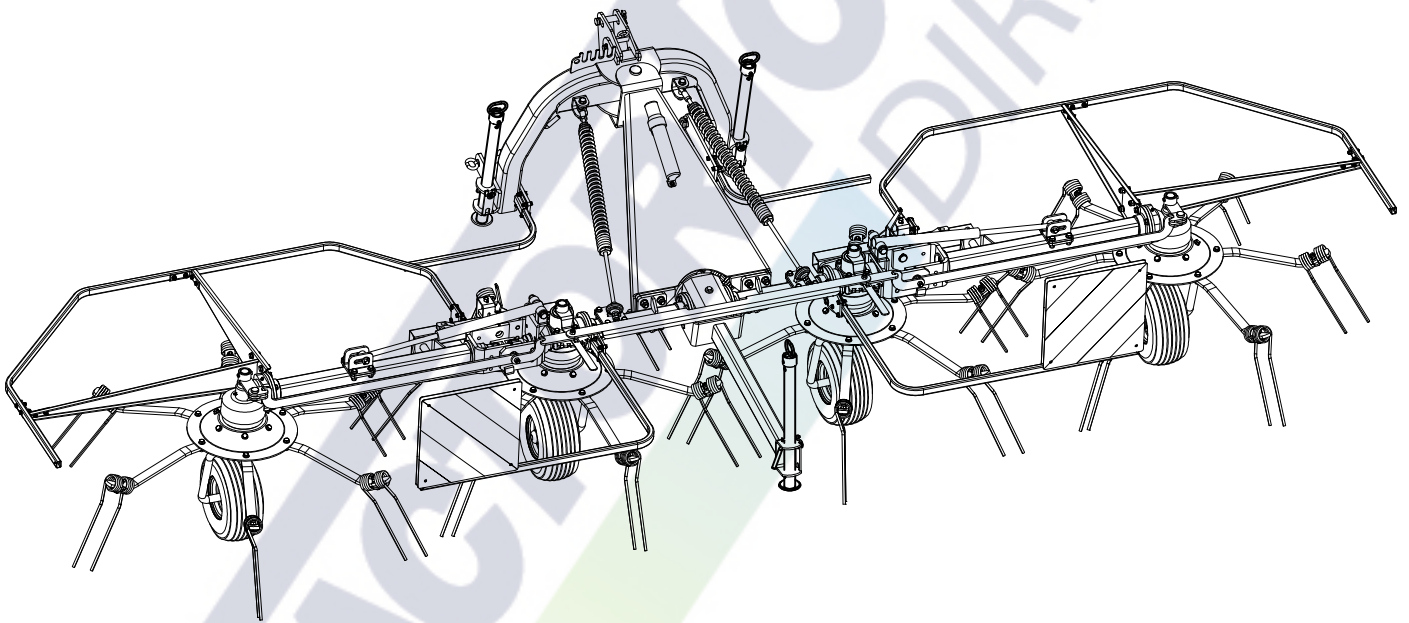
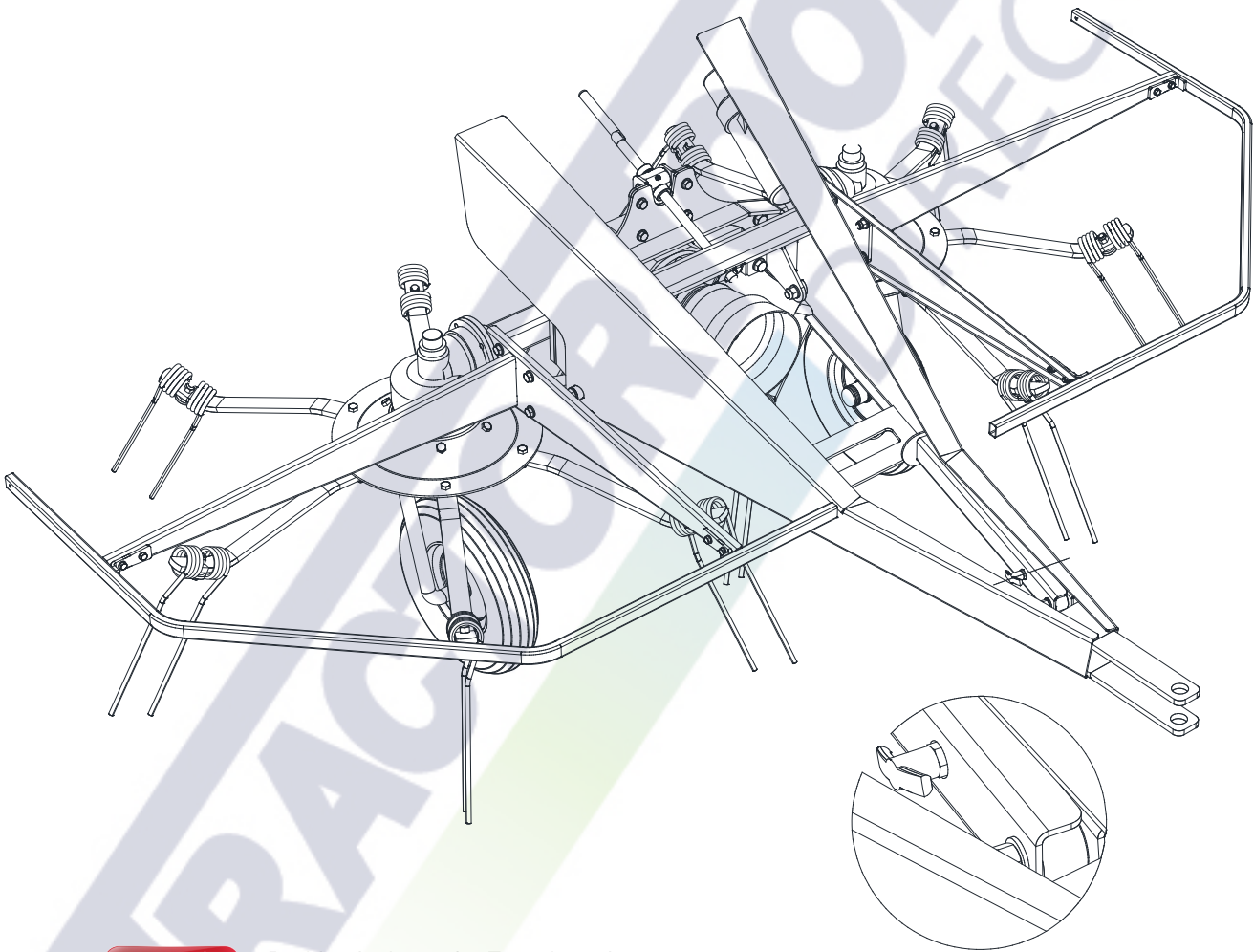


Figure 1 Parking jacks up.



For towed version:

1. Connect the tedder drawbar to the lower central link point.
2. Install the parking jack to the top position. **(Figure 2)**
3. Adjust the crank to the correct working/transport position and inclination. **(Figure 4,5)**



**Figure 2** Parking jacks up for Towed version.

#### 4b. Adjust the rotor angle

##### Procedure:

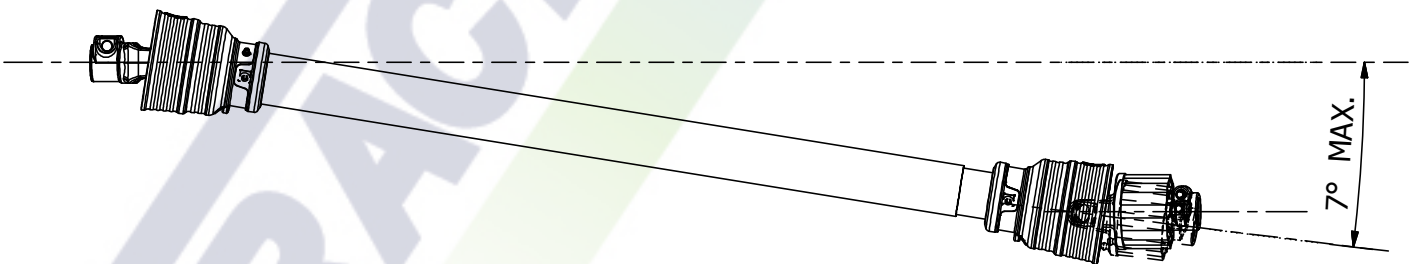
1. Make sure:
  - The tedder is connected to the tractor.
  - The tedder is in the working position.
  - The hydraulic system is set to the floating position.

Make sure the height adjustment of the tines is not too low. This results in an excessive load and causes the tines to wear or break.

2. Use the top link of the headstock to change the rotor angle.
3. Make sure the tines slightly touch the ground.



The maximum value of the PTO shaft angle is 7°. NEVER exceed this limit value. (Figure 3)



**Figure 3** Maximum value of the PTO shaft.

## 4c. Adjust the rotor angle for towed version

### Procedure:

1. Make sure:
  - The tedder is connected to the tractor.
  - The tedder is in the working position.
2. Use the top link of the headstock to change the rotor angle.

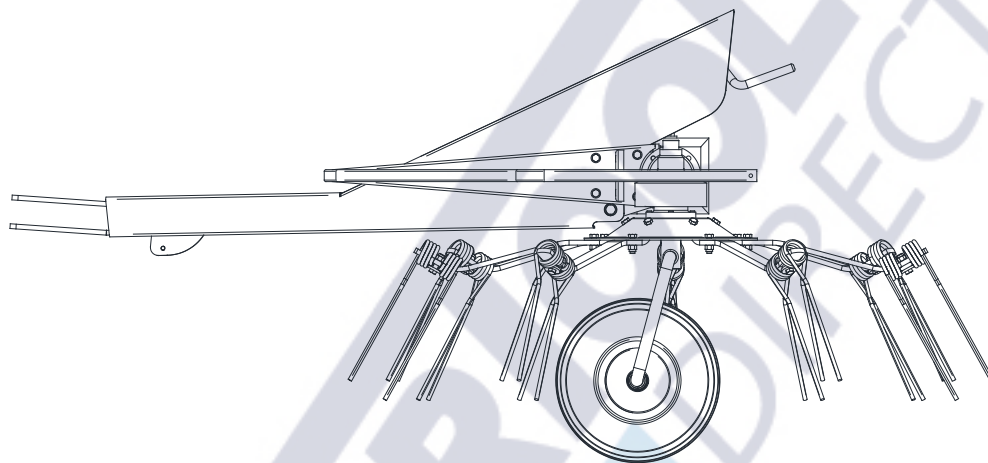


Figure 4 Limit position off the rotors-crank at the end of stroke.

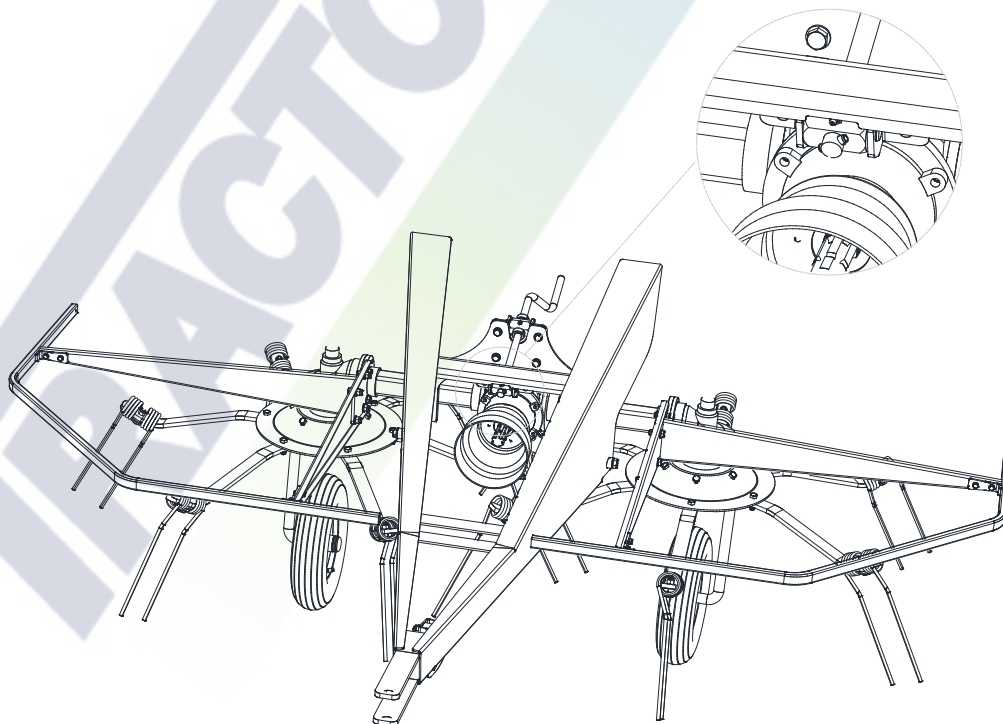


Figure 5 Mechanical end stop, and crank.

#### 4d. Disconnect the Drosera from the Tractor



Always position the tractor on solid ground before you disconnected the tedder from the tractor.



Make sure there are no persons near the tedder when you disconnected it from the tractor.

The tedder can be disconnected from the tractor in the transport position and in the working position.

#### Procedure:

1. When disconnect in transport position, make sure the wheel supports of the center rotors are in closet position to the dish. This ensures the most stable position for the tedder.
2. Switch off the tractor engine and release the pressure from the tractor hydraulic system.
3. Disconnect the PTO shaft from the tractor PTO and attach the PTO shaft to the provided mount.
4. Position the parking Jack to the lowest position (**Figure 6**).
5. Make sure the parking jacks are locked.
6. Disconnect the top link from the headstock.
7. Disconnect the hydraulic hoses from the tractor hydraulic system.
8. Install the dust caps on the hydraulic hoses.
9. Put the hydraulic hoses to the support on the headstock.
10. Disconnect the lighting electrical cable from the tractor if applicable.
11. Attach the lighting electrical cable to the support on the tedder headstock.
12. Remove the end of the ram-lock control cord from the tractor cab.

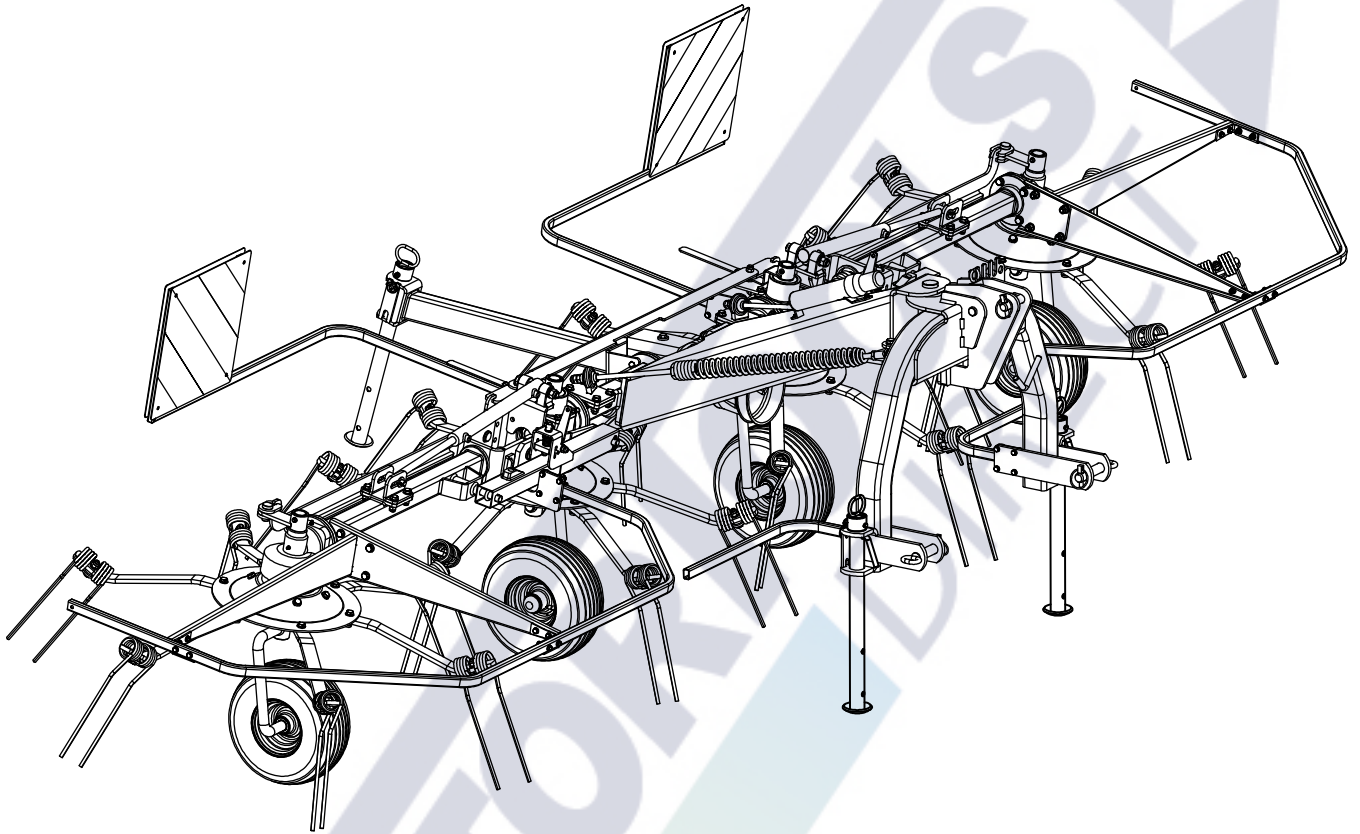
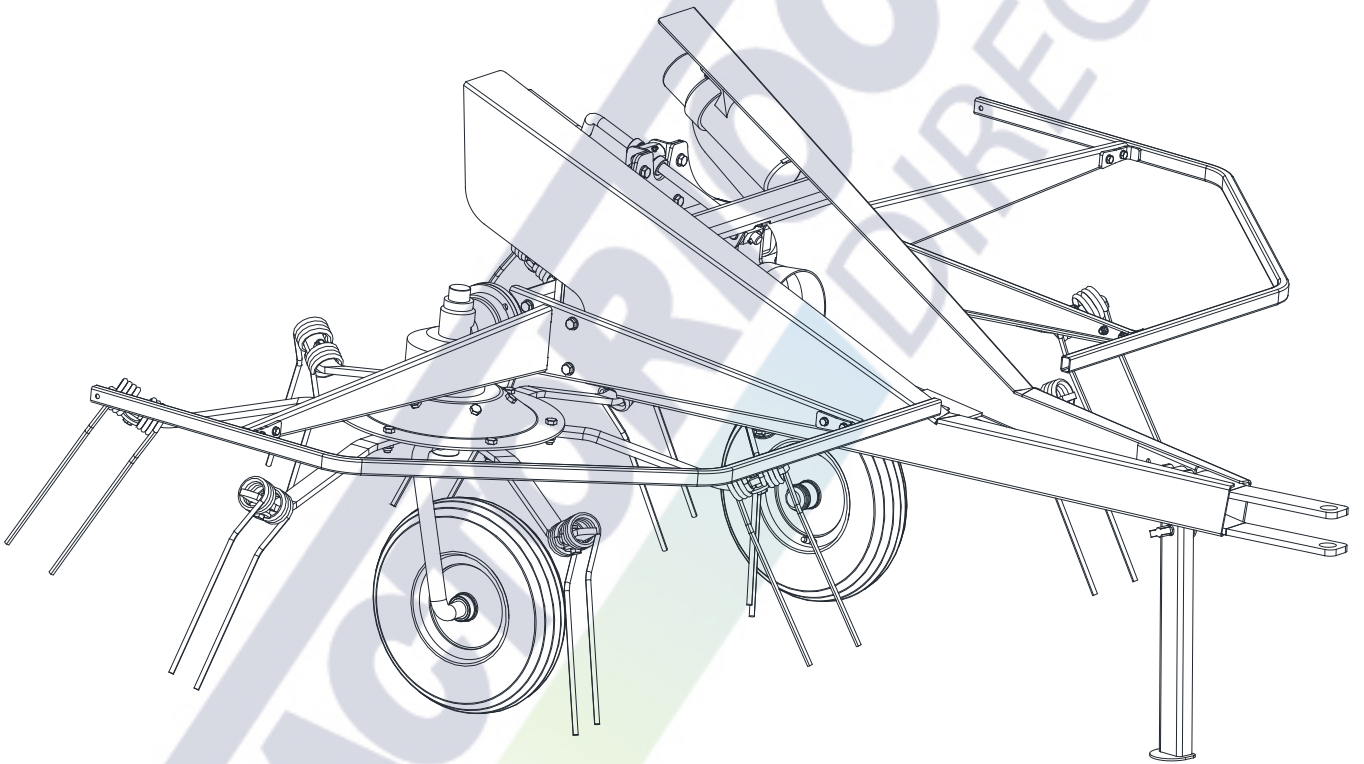


Figure 6 Parking jacks down.

For towed version:

1. Disconnect the tedder drawbar to the lower central link point.
2. Install the parking jack to the down position. **(Figure 7)**
3. Adjust the crank to the correct transport position and inclination.



**Figure 7** Parking jacks down for Towed version.

## 4e. Move the Drosera to the Working Position



Make sure there are no persons in the area when you move the tedder to the headland position.

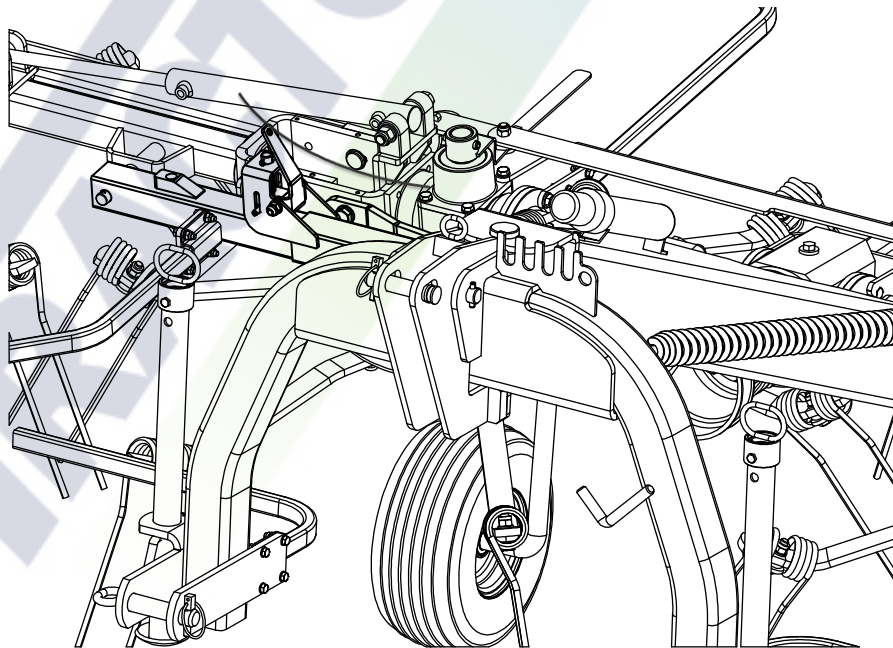
Always switch off the tractor engine before you leave the tractor cab.

### Procedure:

1. Make sure all rotor wheels are set to the same position.
2. Put double acting hydraulic tractor valve in lift position to relief the hook.
3. Pull the control cord from the tractor cab to disengage the locking hook. **(Figure 8)**
4. Operate the tractor hydraulic system to lower the two outer rotor segments to the B-position. **(Figure 9)**



Make sure that the ratio between PTO shaft speed and progressive speed is is.



**Figure 8** Disengage locking device.

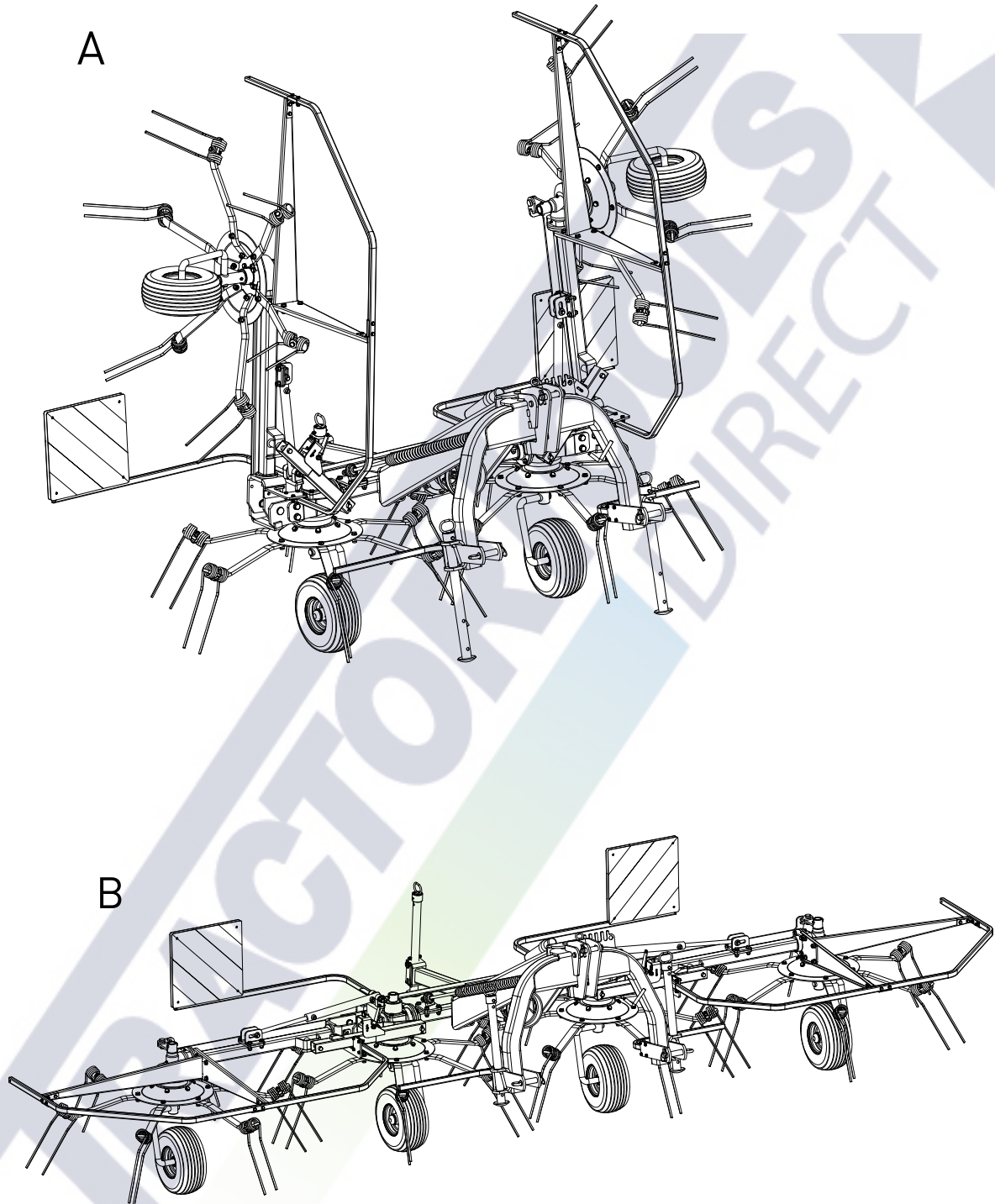
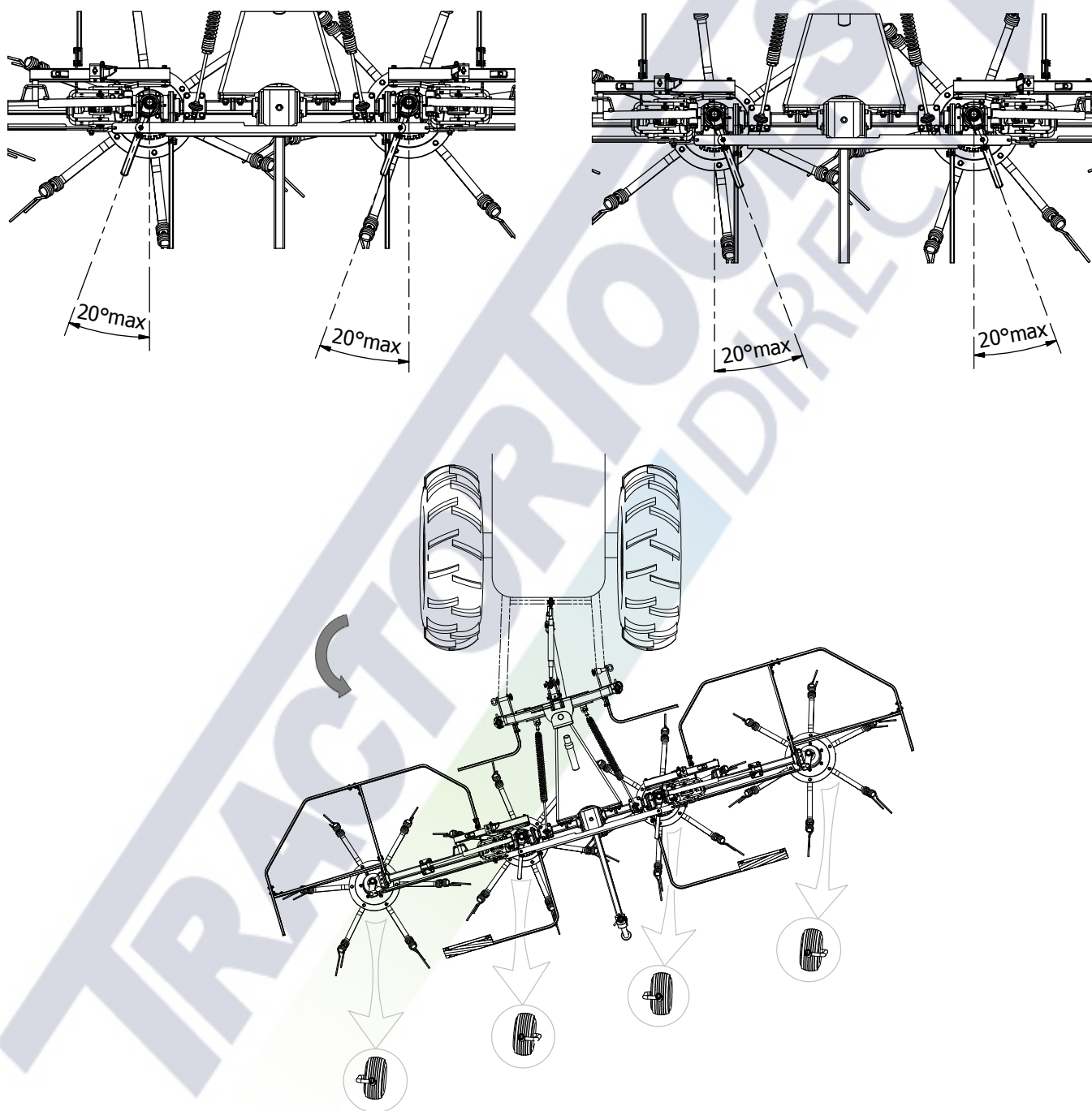


Figure 9 Transport to work. A) Transport position B) work position.



## 4f. Work position for field border and corners

To work close to the edges of the field, with the possibility of crop spreading towards the left or the right, the tedder may be set at an oblique position by pivoting the wheel axles adjusting the central crank. **(Figure 10)**



**Figure 10** Oblique position of the Tedder.

#### 4g. Move the Drosera in the Transport position



Make sure there are no persons in the area when you move the Tedder to the transport position.

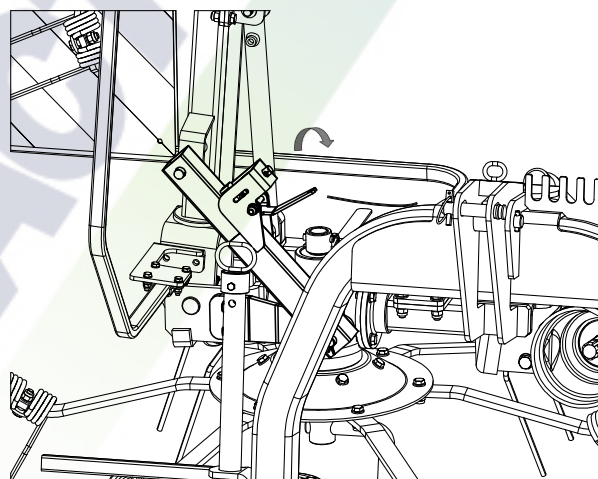
Make sure the front axle weight of the tractor is sufficient (use front weights if necessary) and that you do not exceed the permitted axle load when the Tedder is in the transport position.

Use all light and warning signals as defined by your local road traffic regulations.

Make sure the PTO shaft does not turn when the Tedder is in the transport position.

##### Procedure:

1. Operate the tractor hydraulic system to move the two outer rotor segments of the tedder upwards (A) until the locking hook is engaged (B). **(Figure 11)**
2. Move the wheel assembly of the two outer rotors to position A., to minimize transport width.
3. Lift the machine of the ground.



**Figure 11** Engage locking hook.

#### 4h. Start Tedding



Make sure no persons are near the Tedder when you engage the PTO.  
Make sure no persons are within a 25 m (27 yd.) radius of the tedder during operation.

**Do not operate the tedder without safety guards or covers, or if the safety guards or covers are damaged.**

#### Procedure:

1. Operate the tractor hydraulic system of lift the rotors to the headland position.
2. Put double acting hydraulic tractor valve in floating position.
3. Make sure the tines touch the ground over a distance of approximately 25 cm (9.8 in). Change the angle of the rotor in relation to the ground via the top link on the head stock.
4. Carefully engage the PTO at the lowest possible engine speed.
5. Slowly increase the speed of the PTO to 400-450 rpm.
6. Drive the tractor at a maximum speed of 15 km/h.
7. Lower the rotors to the ground.  
If necessary, stop the tractor, disengage the tractor PTO and:
  - Adjust the tines
  - Adjust the height of the rotor wheels
  - Adjust the rotor angle
8. The following tedding procedure is recommended:

**In case of windy weather conditions, drive the tractor up and down against the wind.**

- a) Drive the tractor up and down to ted the center part of the field (A). Keep a lane of approximately one working width free at the sides of the field.
  - b) Drive the tractor along the side of the field to ted sides (B).  
**(Figure 12)**
9. When tedding on the plot side, make sure that only the rotor height on the plot side is one or two positions lower than the other rotors.

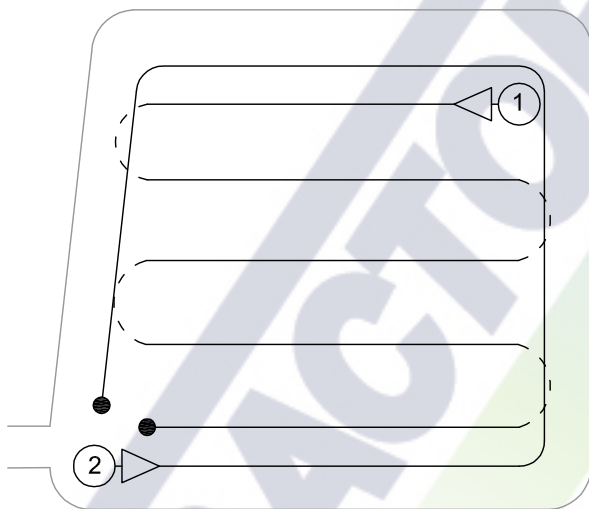


Do not drive the machine through the crop when the rotor is on the ground and not rotating. This causes damage to the tines and tine arms.

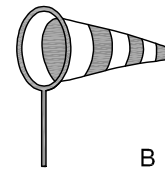
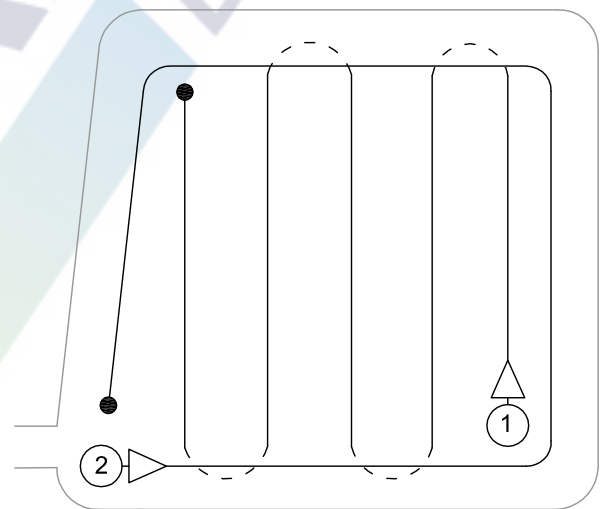
During the early stage of the process in particular, fast and airy tedding twice a day at a low rotor speed is better than intensive tedding at high rotor speed.



Always switch off the tractor engine before you leave the tractor cab.



A



B

**Figure 12** Recommended tedding procedure. A) Normal condition. B) Windy condition

## 4i. Move the Drosera in the Headland Position

### Procedure:

1. Operate the tractor hydraulic system to lift the tedder to the headland position.

The headland position lifts the rotors from the ground, so it is possible:

- To make operation adjustments after disengage the tractor PTO, if necessary.
- To drive to another position in the field.
- To make a turn at the side of the field.

## 4l. Stop tedding



**Always switch off the tractor engine before you leave the tractor cab.**

### Procedure:

1. Stop the tractor.
2. Moves the Tedder to the transport position.
3. Disengage the PTO shaft.
4. Switch off the tractor engine.



**Wait for all moving parts of the Tedder to stop.**

## 5. MAINTENANCE

### 5a. General Maintenance

#### a1) Maintenance after operation

- Clean the Drosera. **(b1)**
- Make sure the tines and tine arms are tight and not damaged.
- Apply anti-corrosion agent to the bare metal parts.

#### a2) Maintenance every 8-10 working hours

- During the season check the lubricant level, top up if necessary with lubricant.
- Grease the drive line

#### a3) Maintenance every 50 working hours

- Grease the pivot points.

#### a4) Maintenance every 100 working hours

- Grease the PTO shafts.

#### a5) Maintenance every 250 working hours

- Make sure the hydraulic hoses are not damaged or worn. Replace if necessary.

#### a6) Maintenance every 500 working hours

- Replace the gearbox grease.

#### a7) Maintenance Before Prolonged Storage

- Apply anti-corrosion agent to the bare metal parts.
- Grease the PTO shafts
- Replace the gearbox grease

- Grease the pivot points
- Grease the drive line
- Make sure the tires meet the correct pressure
- Examine the Drosera for damage and defects. Repair or replace damaged parts.
- Examine the hydraulic system for leaks and damages parts. Repair or replace damaged parts.
- Examine the gearbox for leaks.
- Make sure all bolts and nuts are torque-tight.
- Make sure all safety decals are not damaged. Replaced if necessary.

## a8) Maintenance After Prolonged Storage

- Grease the PTO shafts. **(b2)**
- Grease the pivot points. **(b3)**
- Grease the drive line. **(b4)**
- Examine the deflection of the rotors. Adjust the stop bolts if necessary.
- Make sure the tires meet the correct pressure.
- Examine the Drosera for damage and defects. Repair or replace damaged parts.
- Examine the hydraulic system for leaks and damaged parts. Repair or replace damaged parts.
- Examine the gearbox for leaks.
- **Make sure all bolts and nuts are torque-tight.**
- Make sure all safety decals are not damaged. Replace if necessary.

## 5b. Preventive Maintenance

### b1) Clean the Drosera

#### Procedure:

1. Make sure the Drosera is in the working position
2. Use a water jet to thoroughly clean the Drosera.
3. Move the Drosera to the headland position.
4. Carefully engage the PTO at the lowest possible engine speed until all the water is removed from the rotors.
5. Apply anti-corrosion agent to the bare metal parts.



**Make sure the tines and tine arms are tight and not damaged.**

### b2) Grease the PTO Shaft

#### Requirements:

- Semi Hard Grease (NLGI  $\geq 2$ )

Refer to the part of documentation for detailed information to grease the type of PTO shaft. The important grease point for all type of PTO-shafts is described in the next procedure.

#### Procedure:

1. Verify the types of PTO shaft are on Drosera.
2. Grease the following grease points of the PTO shaft(s).
  - The grease nipple (A).
  - The profiled tubes (B). **(Figure13)**



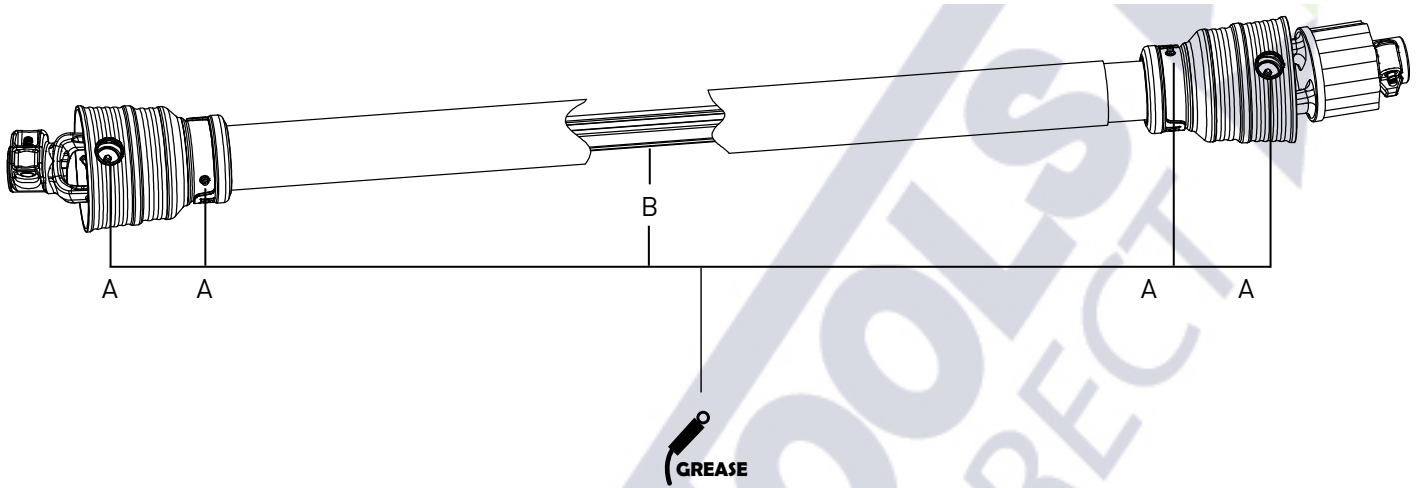


Figure 13 Grease points PTO shaft. A) Grease nipple. B) Profiled tube.

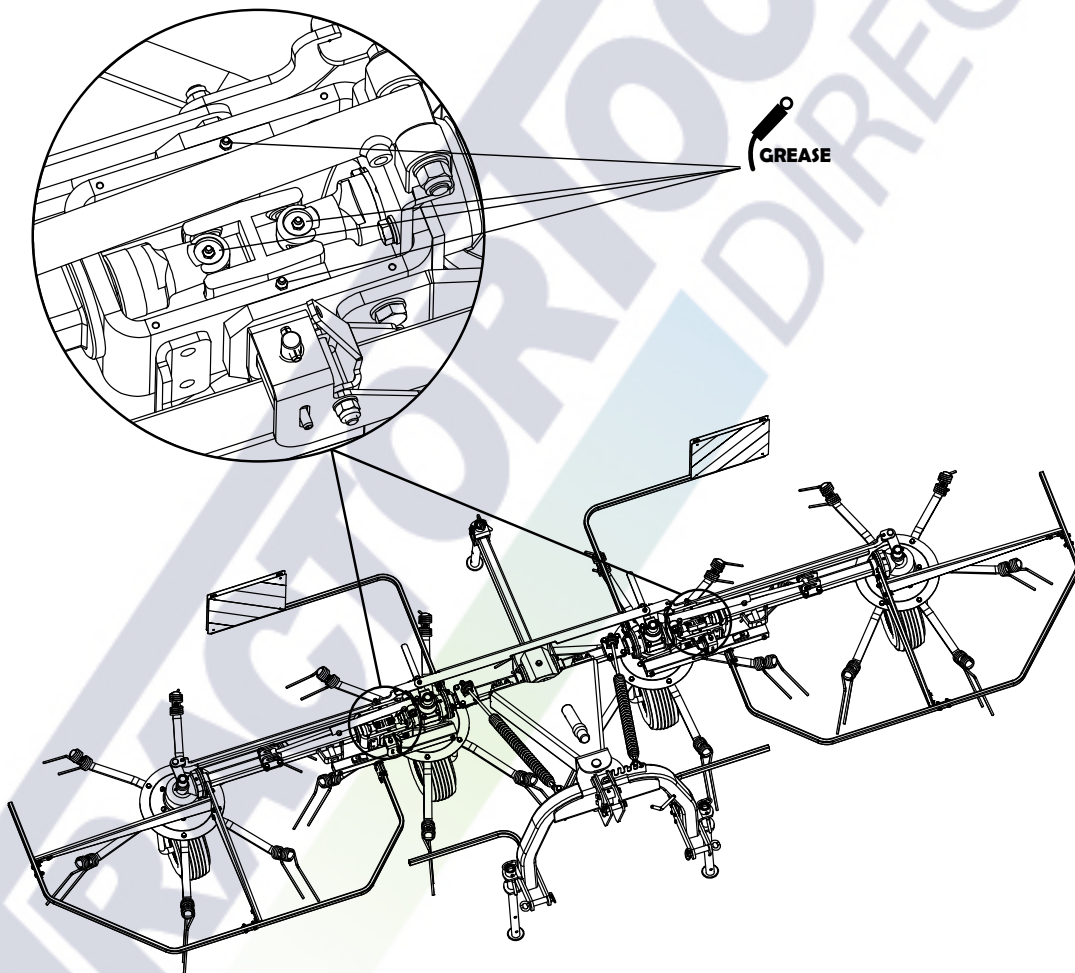
### b3) Grease the pivot points

**Requirements:**

- Semi Hard Grease ( NLGI  $\geq 2$  )

**Procedure:**

1. Grease the pivot points with the grease pump. **(Figure14)**



**Figure 14** Grease pivot points. 50h = grease after 50 hours.

## b4) Grease the drive line

### Requirements:

- Semi Hard Grease ( NLGI  $\geq 2$  )
- Synthetic Oil ( ISO VG220 )

### Procedure:

1. Grease the drive line on both sides with the grease pump.
  2. Lubricate with oil the middle part. **(Figure 15)**
- Make sure all safety decals are not damaged. Replace if necessary.

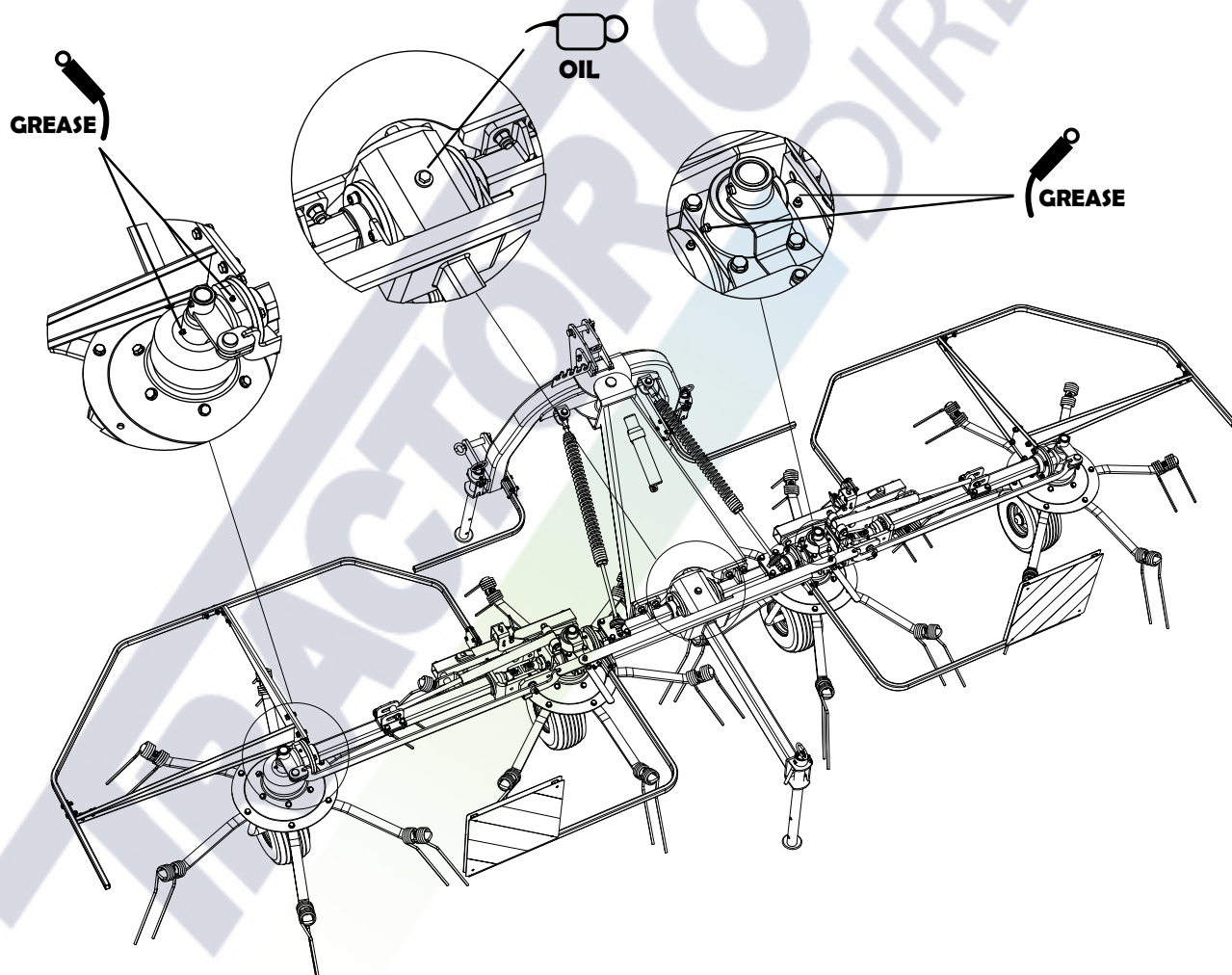
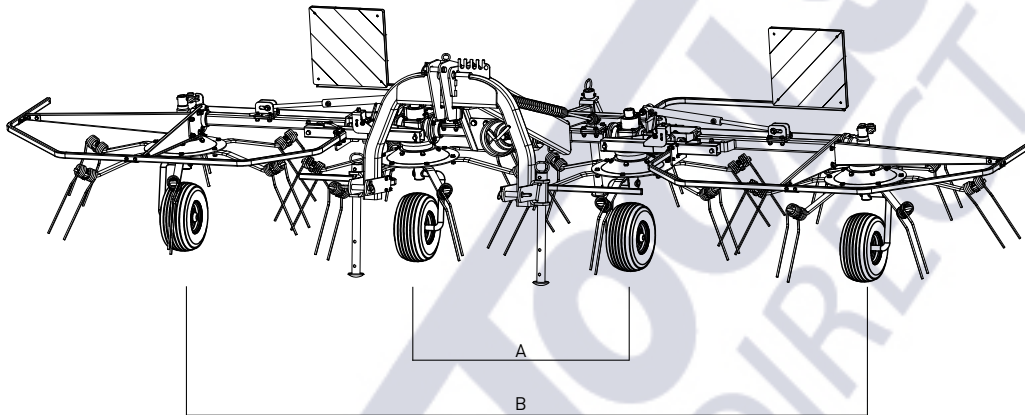


Figure 15 Grease after 10 hours.

**b5) Tyre pressure**



A= 275 KpA (2.75 bar)  
B= 150 kPa (1.5 bar)

**Figure 16** Tyre pressure diagram.

## 6. WARRANTY

The Manufacturer warrants its brand-new products for a period of 12 (twelve) months from the date of purchase. On receiving the machine, check to make sure it is intact and all parts accounted for.

Any complaints must be made in writing within 8 (eight) days of receipt of the machine.

The user's sole remedy under warranty shall consist in the repair or replacement free of charge of any parts proving to be defective subsequent to a thorough examination by the Manufacturer's engineering department (and does not include electrical parts or any implements).

Under no circumstances shall the repair or replacement of parts covered by the warranty extend the warranty period.

The purchaser may only enforce the warranty if the conditions concerning the warranty service, also featured in the supply contract, have been met.

### 6a. Exclusion from warranty

The warranty becomes void (in addition to those situations featured in the supply contract):

In the event of an incorrect manoeuvre attributable to the operator.

In the event the damage can be attributable to poor maintenance.

In the event the machine is altered, following repairs carried out by the user without the Manufacturer's permission or subsequent to the fitting of non-original spare parts, and the damage is the result of said alterations.

In the event the instructions featured in this manual have not been followed. Neither shall the warranty cover any damage resulting from negligence, carelessness, bad operation or improper use of the machine.

Neither shall the warranty cover any damage resulting from negligence, carelessness, bad operation or improper use of the machine.



The removal of the safety devices supplied with the machine shall automatically cause the warranty to become void and relieve the Manufacturer of any liability. In addition, the warranty shall become void in the event non-original spare parts are used. The machine, or parts of it, must be returned carriage free, even when under warranty.

**The warranty have to be required only from the dealership. No warranties will be accepted if sent directly from the farmer.**

## 6b. Instructions

1. Connect to the site: [www.terra-implements.it](http://www.terra-implements.it)
2. Select the section "Customer warranty" ([www.terra-implements.it/customer-warranty/](http://www.terra-implements.it/customer-warranty/)) (Figure 17)
3. Fill the form with all the required fields. (Figure 18)
4. Push "SEND". (Figure 19)



Figure 17

www.terra-implements.it/customer-warranty/

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### Customer Warranty

Home / Customer Warranty

Your Name (required)

Your Surname (required)

Your Email

Your Country (required)

Your Address

Your Phone

Figure 18

www.terra-implements.it/customer-warranty/

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-----MACHINE DATA (see manufacturer plate)-----

DEALER NAME(required)

MODEL(required)

SERIAL NUMBER(required)

YEAR(required)

UPLOAD THE INVOICE! (max 1Mb .jpg, .pdf or .png)  
Scegli file | Nessun file selezionato

Non sono un robot

**SEND**

Figure 19

**7. ASSEMBLY****8. PART LIST**

**All the components of the baler can be requested to the Manufacturer specifying:**

- Machine model.
- Serial number of the machine.
- Production year. Code of the part you need (you will find it in the spare parts book), description and quantity.
- Transport device. In case that this voice isn't mentioned, the Manufacturer doesn't reply in case of delay in the delivery. Freight costs are always at charges forward.
- Transport device. In case that this voice isn't mentioned, the Manufacturer doesn't reply in case of delay in the delivery. Freight costs are always at charges forward.

**The Manufacturer is always available for every kind of commercial and technical request you may have.**



DROSERA

TRACTORTOOLS  
DIRECT



**MAINTENANCE-REPAIR AND OPERATING HAND BOOK**  
OPERATING MANUAL SPARE PARTS CATALOGUE



**CONTACT**

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