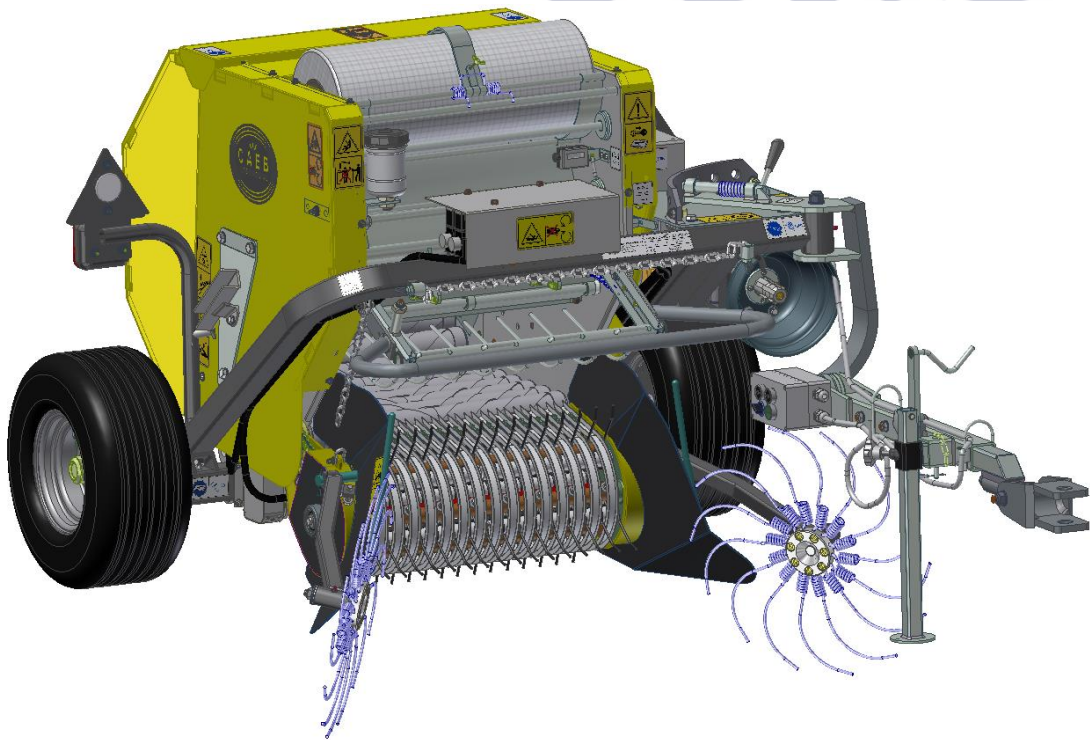




MOUNTAINPRESS 550TPL

MINI – ROUND BALER FOR STRAW AND HAY

 USA custom version 



USE AND MAINTENANCE MANUAL

Carefully read this manual before using the machine

INSTRUCTIONS TRANSLATED FROM THE ORIGINAL VERSION



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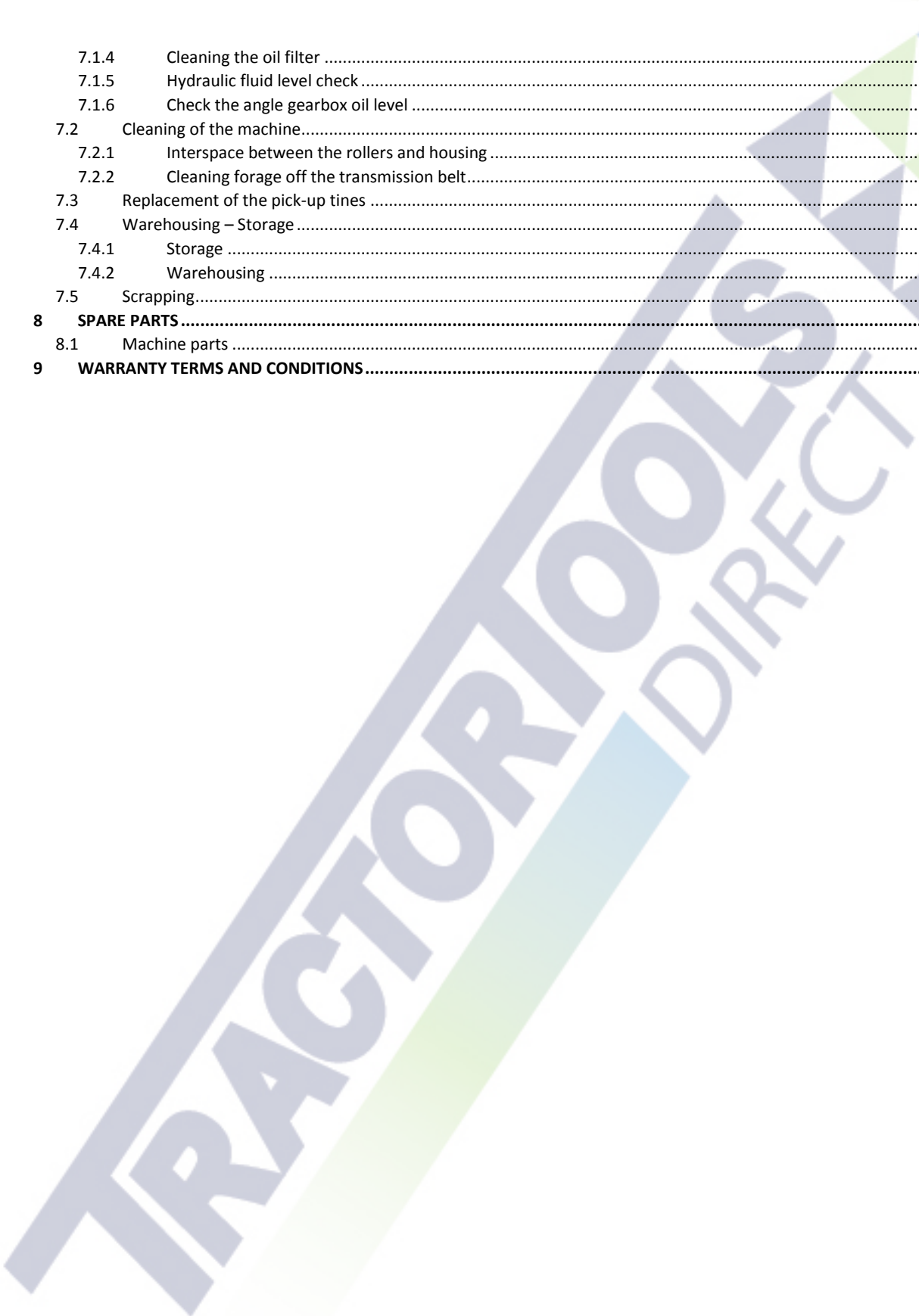
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1 INTRODUCTION

The mini round baler MOUNTAINPRESS 550TPL is an agricultural machine used in the collection and wrapping of round bales of hay, straw and other materials of agricultural origin with the same consistency.

Thank you for purchasing MOUNTAINPRESS 550TPL. We would like to compliment you on your excellent choice as your purchase will be an investment over time and will be a great help with your work.

The mini round baler was built with the best materials and assembled with the best technique in order to obtain maximum duration over time.

MOUNTAINPRESS 550TPL must be combined with two axle tractors of small size and low power. The width and height of the drawbar can be adjusted and the trailing system allows the machine to be towed both behind and at the side.

CAEB INTERNATIONAL is available to you for any need. It is recommended that you **carefully read this use and maintenance manual** and closely follow the indications outlined before any use, control and operation to be carried out using the machine and/or on the machine.

Some parts or accessories showed in the illustrations contained in this manual may differ from those in your machine, some elements may have been removed from the illustrations for the purpose of clarity.

This Manual has been drawn up in accordance with the standards in force at the time of printing.

This Manual, along with the Declaration of Conformity, is an integral part of the machine.

2 GENERAL INFORMATION

2.1 Information on the manual

Before starting to use the machine or perform any operation, carefully read this manual. If it is not fully comprehensible, refer to the manufacturer.

This manual is for use by the user, the maintenance technician and the seller of MOUNTAINPRESS 550TPL and has been drawn up according to the regulations in force at the time of printing. It is an integral part of the machine and must accompany it along with the Declaration of Conformity in the event of sale.

The purpose of this manual is indicating the use of the machine, its technical features and all that concerns the use, maintenance and safety of the machine itself.

It is mandatory to carefully follow all the safety standards reported herein, as well as any laws and standards in force in the country where the machine operates.

CAEB INTERNATIONAL reserves the right to carry out technical improvements that do not modify the method of use of the machine and do not reduce its level of safety. This manual should be considered valid also in the event of differences between the machine and the images shown herein.

The topics discussed in this manual relating to safe use of the machine are those expressly required by the "Machinery Directive 2006/42/EC" and by the relative technical standards.



This symbol together with the words:

DANGER! ATTENTION! WARNING!

is used to draw your attention to the safety and good functioning of the machine.

All the rules reported in this manual must be observed.

2.2 Information on the machine

Before leaving the manufacturing site, this specific model was subjected to a thorough testing to ensure maximum reliability.

This machine is a customized version of the MP 550TPL model for the United States market. This customized version differs by a few aspects from the original version. In particular, the drawbar and the hydraulic system have been modified and the lamps for road circulation are available as accessories.

The mini round baler on average takes 30 seconds to form the bale. The weight of the bale produced varies from 18 to 25 kg (40 to 55 lb) depending on the type of product collected; this weight can be changed by increasing or decreasing the degree of compaction. The height of the bale is 520 mm (20 in) with a diameter of around 550 mm (22 in). Normally the machine is supplied with a 1500 meter-(4921 ft) long reel which allows to make from 350 to 450 round bales.

2.2.1 Intended uses

The MOUNTAINPRESS 550TPL was designed and built exclusively for the collection of windrows of hay and straw, the compaction and wrapping of these products into cylindrical bales. The machine is not intended for use in sectors other than agriculture.

**WARNING!**

The machine must be used by a single operator.
Any use different from that specified is considered improper.

All the operations of collection, wrapping and unloading are controlled and directed by the operator directly from the control station.

2.2.2 CE marking and identification plate

Each machine has a plate bearing the CE mark, the data of the manufacturer, the model, year of manufacture and the weight of the machine (Fig. 1). The positioning of the identification plate is shown in Fig. 2. The serial number is stamped sideways on the drawbar frame (Fig. 2).

The CE mark and the EC declaration of conformity certify that the machine is built in compliance with the "Machinery Directive 2006/42/EC".



Fig. 1 Identification plate

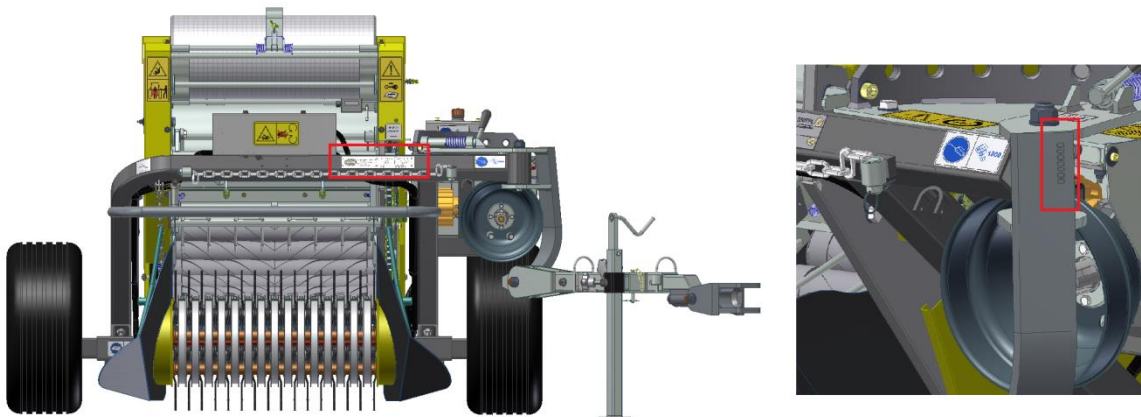


Fig. 2 Position of identification plate on the machine

2.3 Technical features

2.3.1 Components

The components of the machine on which the operator will operate during use are as follows:

A	Net wrapping roll	J	Push-button control panel
B	PTO cardan joint attachment	K	Pick-up
C	Drawbar	L	Bale pressure regulator
D	Side drawbar adjustment pin	M	Net length adjuster
E	Safety chain	N	Pick-up height adjuster
F	Support foot	O	Bale counter
G	Hydraulic oil tank	P	Cardan shaft support
H	Power supply cable	Q	Electrical cables support
I	Gathering wheel support		

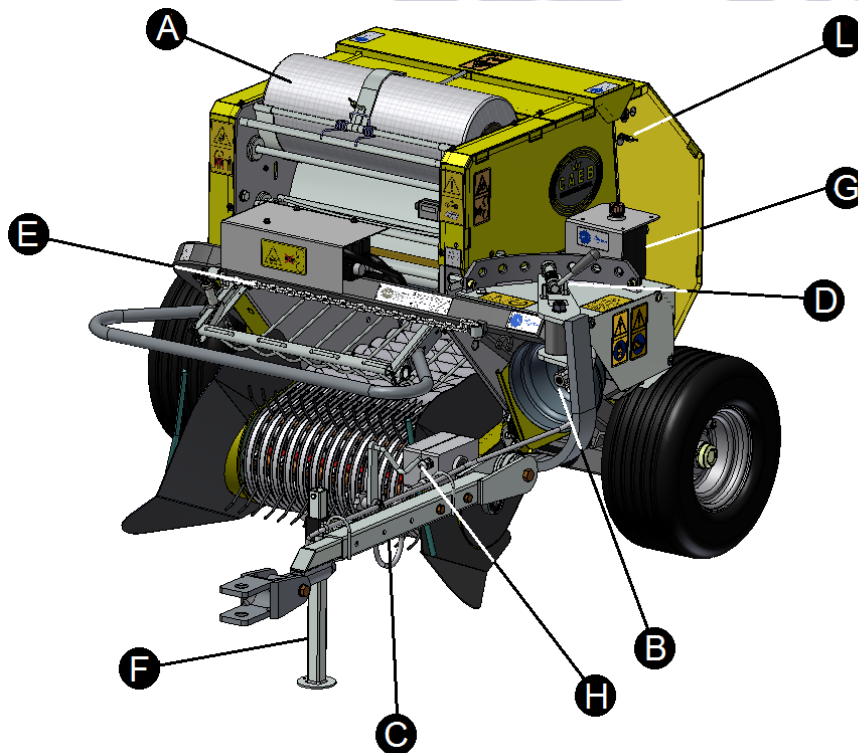


Fig. 3 Machine components

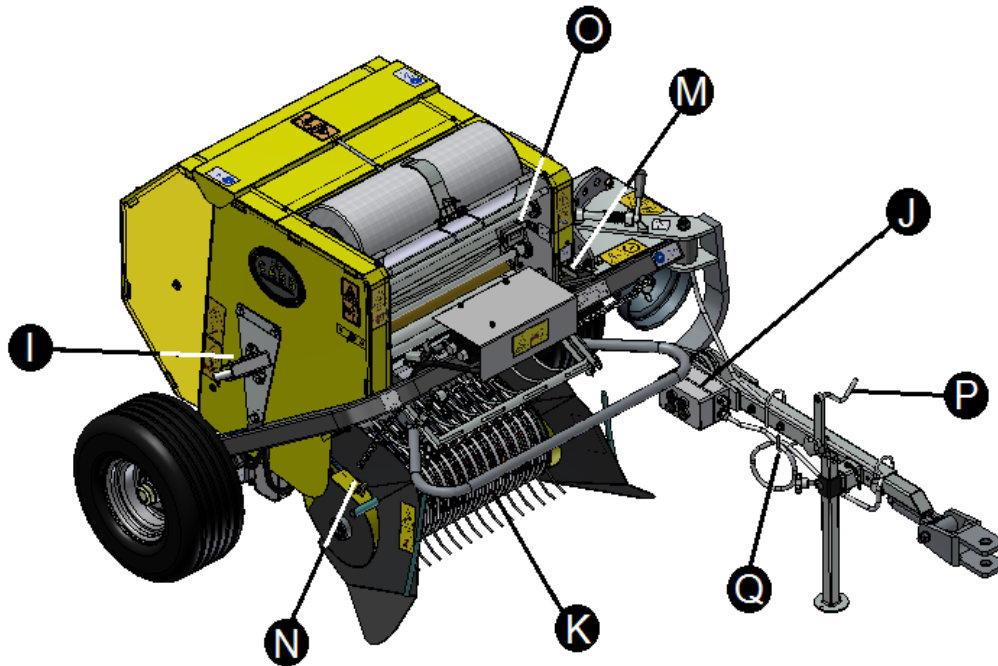


Fig. 4 Machine components

2.3.2 Technical Data

Height	1030 - 1130	[mm]	40 - 44	[in]
Width	1225 - 1700	[mm]	48 - 67	[in]
Length	1950 - 2250	[mm]	77 - 89	[in]
Machine weight	295	[kg]	649	[lb]
Tire type	18.5x8.50/8''			
Tire pressure	2.5	[bar]		
Minimum tractor power	15	[kW]	20	[HP]

Tab. 1 Manufacturing features of the machine

Round bale diameter	550	[mm]	22	[in]
Round bale height	520	[mm]	20	[in]
Round bale weight	18 - 25	[kg]	40 - 55	[lb]
Average time for bale formation (A)	20 – 30	[s]		
Average time for bale wrapping (B)	4 – 7	[s]		
Time needed for unloading (C)	6	[s]		
Total time per bale (A+B+C)	30 - 43	[s]		
Hourly production	1000 - 1600	[kg/h]	2200 - 3500	[lb/h]
Length of wrapping net	1500	[m]	4921	[ft]
Length of net per round bale	3.5 - 5.5	[m]	12 - 18	[ft]
Round bales per roll (average)	350 - 450	[-]		
Noise level	< 85	dB		

Tab. 2 Machine performance

2.4 Optional equipment

The optional equipment is generically specified when ordering the machine. In some cases it is also possible to modify the machine in a subsequent stage.

2.4.1 Lubrication

On request the machine can be equipped with an automatic chain lubrication system. The position of the lubrication tank is shown in Fig. 5.

2.4.2 Single drawbar coupling

If the tractor is equipped with a bell-shaped drawbar coupler (Fig. 6) the drawbar can be supplied with a single connection plate.

2.4.3 PTO counter-clockwise rotation

If the sense of rotation of the tractor's PTO is counter-clockwise (sense of rotation observed by looking at the PTO from the back of the tractor), the machine can be configured so that its operation is not compromised. This requirement must be specified when ordering the machine.

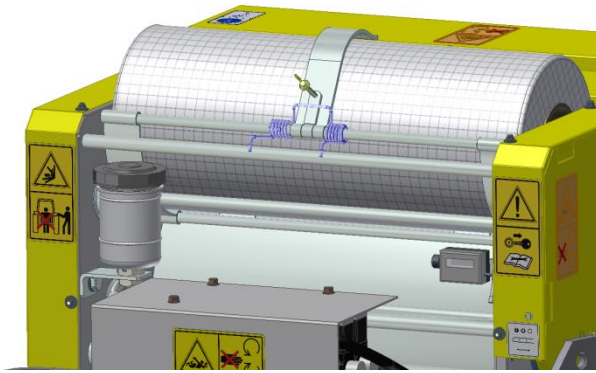


Fig. 5 Lubrication

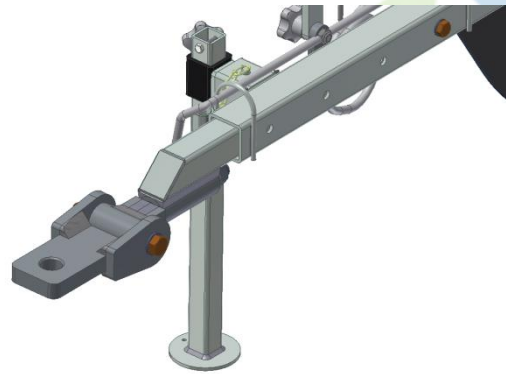


Fig. 6 Drawbar with single connection plate

2.5 Accessories

The accessories can be mounted on the machine at any time.

2.5.1 Gathering wheels

The gathering wheels allow to increase the collection width and therefore the productivity of the collection stages. The gathering wheels are mounted on the machine as shown in Fig. 7.

2.5.2 Lamps kit

The machine can be fitted with rear indicator lights (see Fig. 8). These are connected to the tractor's electrical system via a 7 pin plug that allows to indicate braking, changes in direction, etc.



Fig. 7 Gathering wheels



Fig. 8 Lamps kit

3 SAFETY MEASURES



WARNING!

The following safety measures are intended to protect your safety. You must read them carefully, memorize them and always apply them.

The warnings in this manual exclusively concern the intended and reasonably foreseeable uses of the machine. The indications shown below must be carefully observed and integrated with the good sense and experience of those who operate and are essential to prevent injury and accidents.

The machine must only be used by authorized, informed and trained staff.

The machine may only be used by one operator at a time.

CAEB INTERNATIONAL shall not be held liable for any changes to the machine not previously authorized by (in written form) by CAEB INTERNATIONAL.

Check that the machine is working correctly before each use.

3.1 Safety regulations

3.1.1 General advice

- In addition to the warnings contained in this manual, observe all the general safety and accident prevention standards.
- This manual must always be on hand so that it can be consulted to check the machine's operating cycle and the information on safety. In the event that this manual is lost or damaged, ask CAEB INTERNATIONAL for a replacement copy.



During use, maintenance and repair as well as storing operations of the machine, all operators must wear safety shoes with non-slip soles, work gloves and, if necessary, ear protectors.

- Do not work near the machine while wearing clothes that could be caught in one of the moving parts of the machine.
- Do not use the machine on harvests that are not suitable or in adverse atmospheric conditions.
- Always keep a first aid kit on hand.
- Never operate the machine if you are tired, ill or under the influence of alcohol, drugs or medicine.
- Check that the machine has not undergone damage during transportation, and if it has, immediately report to CAEB INTERNATIONAL.
- Before use read the tractor instructions manual.
- The operator must be able to use the tractor according to the safety standards' requirements and the highway code of the country where the machine is used.

- This customized version of MOUNTAINPRESS 550TPL is an agricultural machine **not approved** for road traffic.
- The machine is designed for use on sloping ground, but the user is still required to ensure an adequate safety margin to guarantee stability and prevent overturning. The speed must be adapted to the type of ground and the operator is responsible for choosing the appropriate speed to avoid any type of hazard.

**ATTENTION!**

The manufacturer shall not be liable for any damage caused by improper use of the machine.

CAEB INTERNATIONAL shall not be held liable for any objective and subjective responsibility if the standards outlined in this manual are not applied and observed and in the event of:

- Improper use of the machine, use by untrained personnel.
- Serious deficiencies in the maintenance outlined (see § 7).
- Use of a tractor that does not meet all the safety requirements, is unsuitable (see § 5.1) or used in an improper way.
- Direct or indirect damage deriving from breaks and/or wear of machine parts.
- Use of non-original spare parts.
- Failure to observe the common work/workplace safety standards.
- Exceptional occurrences.

3.1.2 Connection of the machine to the tractor

Before connecting the machine to the tractor make sure that the latter is in good maintenance conditions, that the tires are in a good condition and inflated to the suitable pressure, and that the brakes function correctly.

3.1.3 Machine operation**WARNING!**

Those who approach the machine enter the **hazard zone** and therefore are “exposed persons”. The operator must prevent anyone from entering the hazard zone and must always act with maximum caution.

**WARNING!**

In the event of collection in a mountainous or hilly area, the operator must proceed to the unloading of the round bale only when the machine is located on **flat ground**, since the unloaded round bale could roll causing considerable damage.

Check the machine before each start-up. Only begin work if the machine is in perfect conditions. Before using the machine make sure that the casing and the pick-up barrier (see Fig. 9) are positioned correctly and are in a good condition; if they become broken or damaged replace them immediately. The machine must not be left unattended when it is moving.

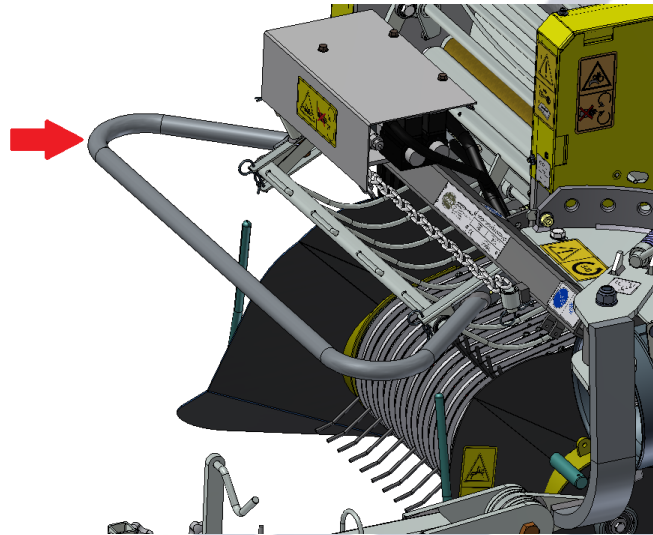


Fig. 9 Pick-up barrier

3.1.4 Clogging of the pick-up



WARNING!

If the pick-up gets **clogged**, never try to unclog it while the round baler is running.

Never not try to extract or directly introduce the products into/out of the pick-up with your hands or feet while the round baler is running. If the pick-up gets clogged, follow the procedure outlined in this manual.

3.1.5 Maintenance



WARNING!

When carrying out **maintenance** of parts inside the machine, use the suitable device to prevent accidental closure of the door.

The right cylinder (with respect to the direction of travel) for door opening is equipped with a locking device (as shown in Fig. 10). For carrying out maintenance operations of the parts inside the machine, open the machine door, stop the power take off, lift and rotate the locking device. To prevent disconnection of the device, insert a spring type split pin (Fig. 11).



Fig. 10 Locking device



Fig. 11 Hole for spring type split pin

3.2 Safety pictograms and symbols










WARNING!

Ensure that the safety pictograms are legible. If they are dirty, clean them using a cloth, water and soap. **Replace damaged labels**, placing the new ones in the correct and original position.

The safety signs affixed to the machine provide a series of indications that are essential to your safety.

3.2.1 Pictograms on the machine

	<p>1 - WARNING!</p> <p>The operations of adjustment and maintenance must be carried out after having read the manual of use and maintenance, with the engine switched off and the parking brake on.</p>
	<p>2 - WARNING!</p> <p>Danger of crushing and dragging. Do not place yourself between the tractor and the machine when the machine is running.</p>
	<p>3 - WARNING!</p> <p>Danger of catching and dragging. Keep hands away from the moving parts.</p>
	<p>4 - WARNING!</p> <p>Danger of crushing. Do not place yourself between the machine and a fixed obstacle while the bale is being unloaded.</p>
	<p>5 - WARNING!</p> <p>Danger of catching and dragging of limbs. Keep away from the pick-up and do not try to remove the clogging while the engine is running.</p>
	<p>6 - WARNING!</p> <p>Danger of catching and dragging. Keep hands away from the moving parts.</p>
	<p>7 - WARNING!</p> <p>Danger of crushing and shearing of hands. Keep away.</p>

	<p>8 - WARNING! Ejection hazard, do not unload the bales on sloping ground.</p>
	<p>9 - WARNING! Danger of ejection and crushing, prevent the door from closing during inspection and/or maintenance operations.</p>
	<p>10 - WARNING! Danger of crushing, pay attention to the drawbar during the adjustment of the machine working angle.</p>
	<p>11 - WARNING! Danger of incorrect operation of the machine, use transmissions that guarantee the speed of 540 revolutions per minute is reached at the PTO.</p>
	<p>12 - WARNING! Use the required Personal Protective Equipment (safety shoes and work gloves).</p>

Tab. 3 Safety pictograms

	<p>13 - Lubrication point and frequency in number of bales produced</p>
	<p>14 - Lubrication point and frequency in number of bales produced</p>
	<p>15 - Greasing point and frequency in number of bales produced</p>

	<p>16 – Periodical maintenance and frequency in number of bales produced</p>
	<p>17 - Wrapping turns adjustment</p>
	<p>18 - Parking brake</p>
	<p>19 - Pick-up adjustment chain</p>
	<p>20 - Wheel inflation pressure</p>
	<p>21 - Drawbar adjustment</p>
	<p>22 - Bale counter</p>
	<p>23 - Lifting point</p>
	<p>24 - Safety chain</p>

Tab. 4 Control pictograms

3.2.2 Position of the pictograms on the machine

In the following images (Fig. 12, Fig. 13 and Fig. 14) the position of the pictograms introduced in §3.2.1 (Tab. 3 and Tab. 4 is indicated)

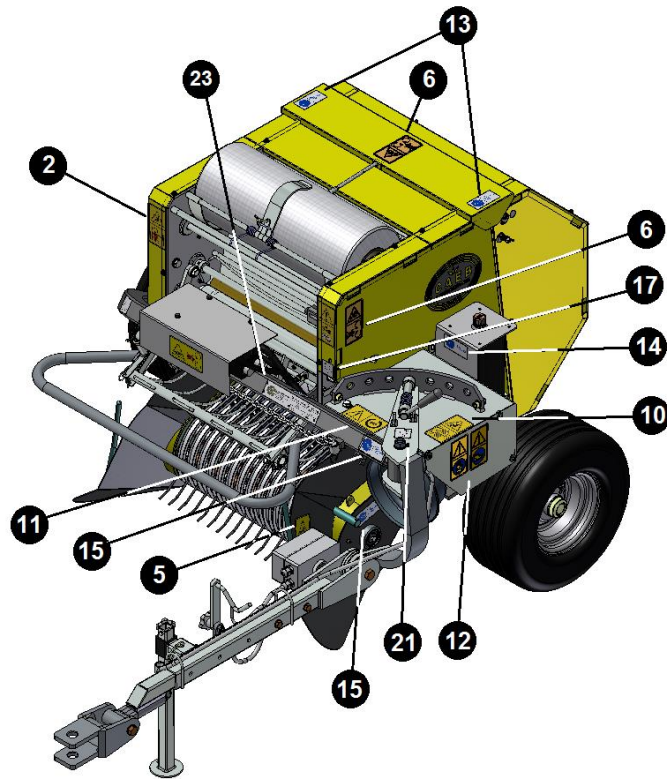


Fig. 12 Numbered position of pictograms, front right view

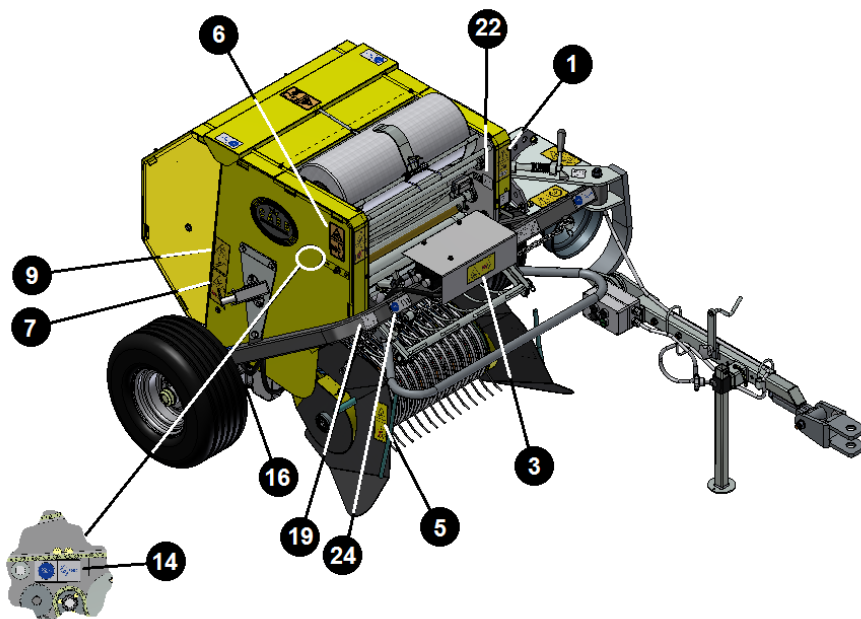


Fig. 13 Numbered position of pictograms, front left view

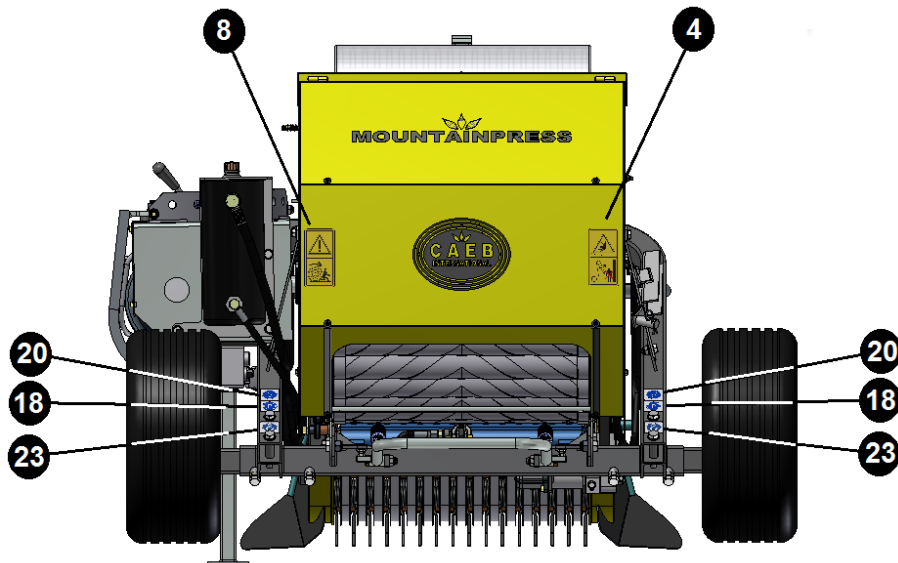


Fig. 14 Numbered position of pictograms, rear view

4 LIFTING, TRANSPORTATION, HANDLING



WARNING!

Pay maximum attention and caution during loading and unloading of the machine. These operations must be carried out by qualified staff.



WARNING!

Before lifting the machine, check that the lifting system and the relative equipment (ropes, cables, hooks, etc.) is integral, certified and suitable for the weight of the machine.



WARNING! DANGER!

During the lifting of the machine, it is forbidden to pass or stop under the suspended load or leave the lifting device unmanned while the load is suspended. Do not make the machine sway and only lift it as little as necessary.

4.1 Harness diagram for loading, lifting and transporting

The following instructions should be observed for correct handling of the machine:

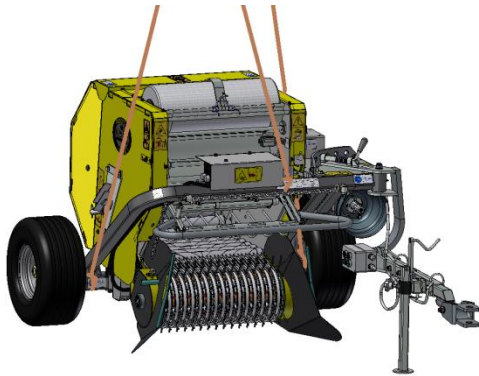


Fig. 15 Lifting harness

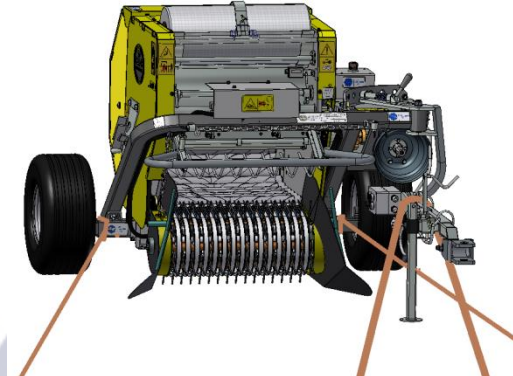


Fig. 16 Securing methods

- Use cables or webbing straps suitable for lifting and certified for the weight of the machine.
- Ensure the cables are intact.
- Ensure the machine is well-balanced during the lifting.
- The recommended securing points are on the frame close to the wheels and near the identification plate.
- When lifting the machine using a crane, the operator must remain at a safe distance from the suspended machine; this safety distance must be proportional to the length of the cable used.
- If the machine needs to be loaded on another means of transport (for example a trailer), apply the parking brakes on both wheels (see §7.4.1), secure it tightly and fasten it to the platform with anchor lines as indicated in Fig. 16.

5 CONNECTION TO THE TRACTOR

5.1 Technical features of the tractor


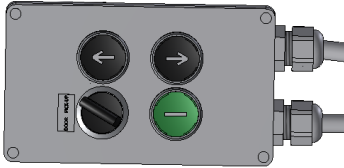
The tractor must have the following features to ensure correct coupling with MOUNTAINPRESS 550 TPL:

- An engine with power equal to 15 kW (20 HP) as a minimum.
- The power take off must be type DIN 9611 1" 3/8 Z6 and must rotate at a speed of 540 revolutions per minute in the counter-clockwise direction. MOUNTAINPRESS 550TPL can be combined with any tractor by using a suitable angle gearbox, the make, type and model of the tractor that will be coupled to the machine must therefore be specified. The type of connection can also be modified after purchasing the machine.
- Electrical system 12 VDC available to supply an electric current of 28 A for 3 seconds.
- Braking system suitable and in good working order.
- The cardan shaft used must have a minimum power equal to the 2nd category and must be used in full compliance with the safety provisions relating to the cardan shafts.

5.2 Connection of the machine

The connection of the MOUNTAINPRESS 550TPL is illustrated as follows:

	<p>Adjust the vertical angle of the drawbar according to the height of the coupling on the tractor so that the machine is horizontal. Loosen the bolt and screw it tightly when the operation is complete.</p>
	<p>Adjust the horizontal angle according to the working configuration desired (machine on the side or in line with the tractor) using the relative lever-pin.</p>
	<p>Adjust the length of the drawbar, unscrewing the two fixing bolts so that the machine is positioned at a distance compatible with the length of the cardan shaft. Fix the two bolts so as to securely lock the two parts of the drawbar.</p>
	<p>Connect the eye to the tractor hook ensuring the correct fixing.</p>
	<p>Disconnect the support foot, secure it at half length and in a horizontal position so that no disturbance is caused during the work stages.</p>
	<p>Connect the cardan shaft of a suitable length to the PTO of the tractor and to the machine. Fix the safety chains to the eye on the machine and to the tractor body.</p>

	<p>Connect the electrical cable to the tractor's power supply. The client is responsible for carrying out the electrical connection in compliance with the current standards.</p>
	<p>Place the pushbutton control panel (Ref. J in Fig. 4) on the tractor. A magnet on the lower part facilitates positioning.</p>

5.3 Road use

The configuration of the machine for road use is shown in Fig. 17. It is necessary to place the drawbar in the central position, rotate the support foot to the horizontal position, raise the pick-up and shorten the pick-up height adjustment chain and connect the safety chain to the drawbar. In the event that the machine is equipped with gathering wheels, the left gathering wheel should be dismantled and housed in the appropriate stand.

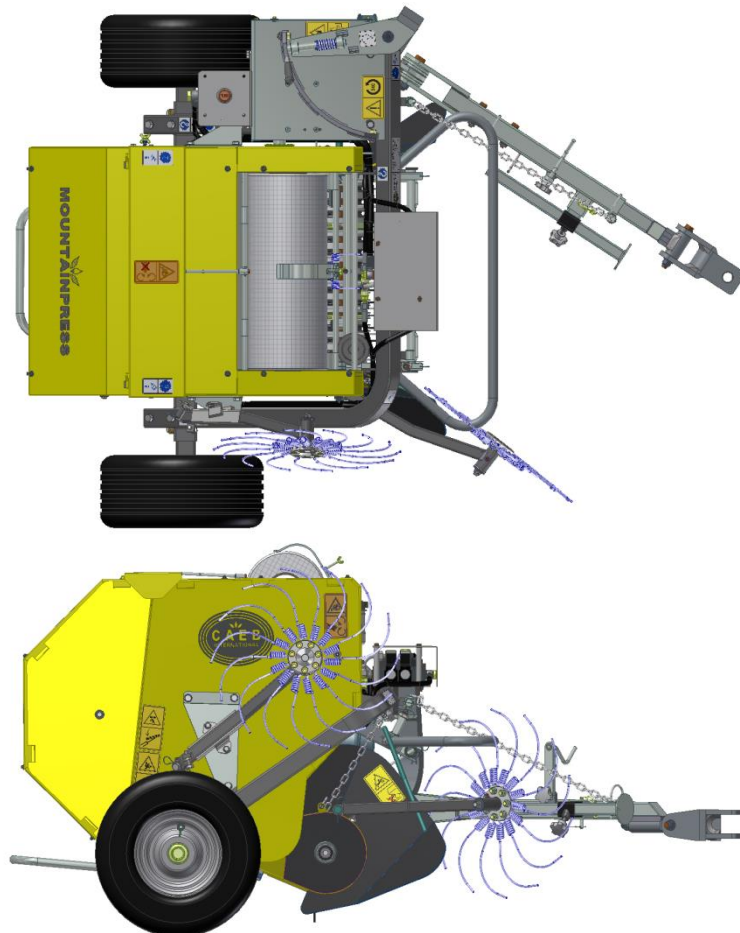


Fig. 17 Configuration for road use

6 MACHINE USE

**WARNING!**

Before use provide for greasing and lubrication according to the methods indicated in §7.1.

**WARNING!**

Always use the suitable Personal Protection Equipment (safety footwear with non-slip soles, work gloves and, if needed, ear protectors).

**WARNING! DANGER!**

The housings must also remain bolted to the structure of the machine, they must be intact and free from structural anomalies. The pick-up barrier of the pick-up must always be installed correctly.

6.1 Machine adjustment and controls

6.1.1 Wheel adjustment

The machine can be configured to work at different heights with respect to the ground. To do this the wheel groups can be mounted in four different ways. The machine needs to be lifted for the assembly of the wheel group (see §4.1).

After having lifted the machine, loosen the screws shown in Fig. 18 and slip off the wheel group. Direct the tube of the wheel group according to the desired configuration (the four possible configurations are shown in Fig. 19, Fig. 20, Fig. 21 and Fig. 22). Tighten the screws before resting the machine on the ground.

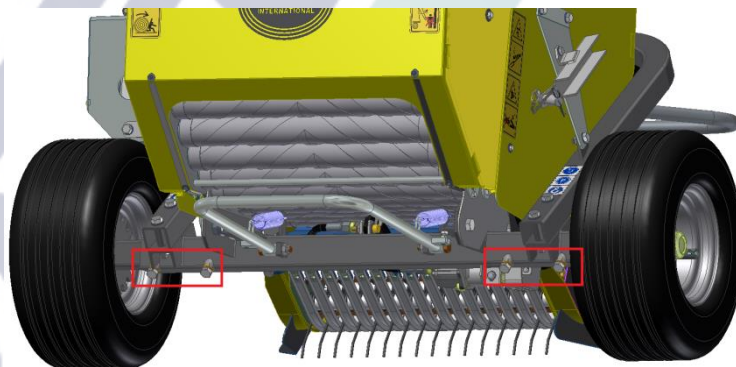


Fig. 18 Wheel adjustment screws



Fig. 19 Machine behind (standard)



Fig. 20 Machine in front



Fig. 21 Machine low



Fig. 22 Machine high

The size of the axle track can also be adjusted to improve the side stability (larger track) or allow collection on narrow ground (smaller track). The maximum size of the track is 1700 mm (67 in, Ref. **A** in Fig. 23) and each wheel must not protrude from the machine by more than 520 mm (20 in, Ref. **B** in Fig. 23). The same operations described above should be performed for the adjustment of the track.

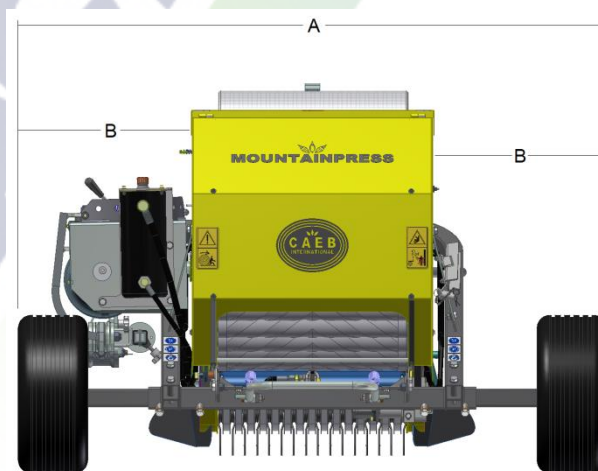


Fig. 23 Maximum size of the track

6.1.2 Adjustment of the drawbar

The machine must be hooked to the tractor adjusting the trailer drawbar so that it is parallel to the ground. The distance between the tractor and the round baler can be modified by adjusting the length of the drawbar.

6.1.3 Adjustment of the pick-up

The pick-up must operate a few centimeters (about one inch) from the ground, the minimum height can be adjusted with the relative chain (Ref. **A** in Fig. 24), so that it adapts to various types of land. For lifting the pick-up, turn the switch to the position "PICK-UP" (Ref. **A** in Fig. 25) and press the button "UP" (Ref. **C**). Adjust the minimum height chain as you need and then press the button "DOWN" (Ref. **D**) on the pushbutton panel (Ref. **D**) to release the pick-up.

6.1.4 Wrapping control

The wrapping of the bale is controlled by pressing the button "WRAP" (Ref. **B** in Fig. 24) for three seconds. An extended pressing of the button can cause overloads of the electric system.

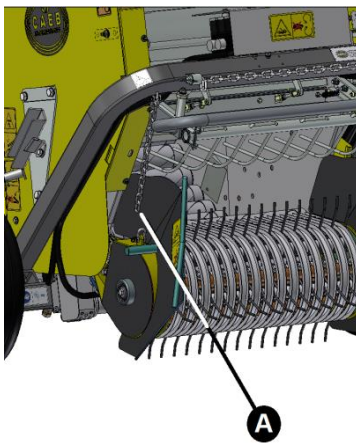


Fig. 24 Pick-up adjustment chain

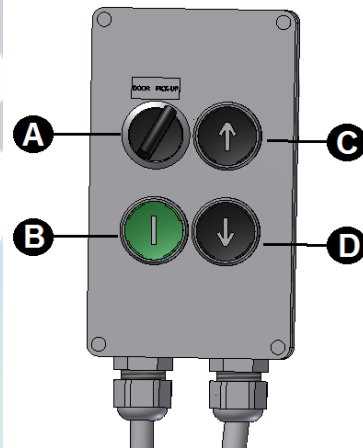


Fig. 25 Pushbutton control panel

6.1.5 Round baler pressure regulator

The pressure regulator (Ref. **L** in Fig. 3) allows to change the degree of compaction of the product collected inside the compacting chamber. This adjustment should be carried out according to the quantity and type of product collected. Generally the degree of compaction should be increased for dry products and decreased for damp products. Turn the wing nut clockwise to increase the degree of compaction of the bale.

6.1.6 Adjustment of the wrap net turns

The number of wrapping net turns to bind a round bale can be modified by operating the lever **A** (Fig. 26) securing it at different points on the pin **B** (Fig. 26).

The lever can be placed in three different positions (Fig. 27):

POSITION A (lever all out)	1st hole →	from 3 to 5 turns of net
POSITION B (intermediate)	2nd hole →	from 2 to 3 turn of net
POSITION C (lever all in)	3rd hole →	from 1 to 2 turns of net

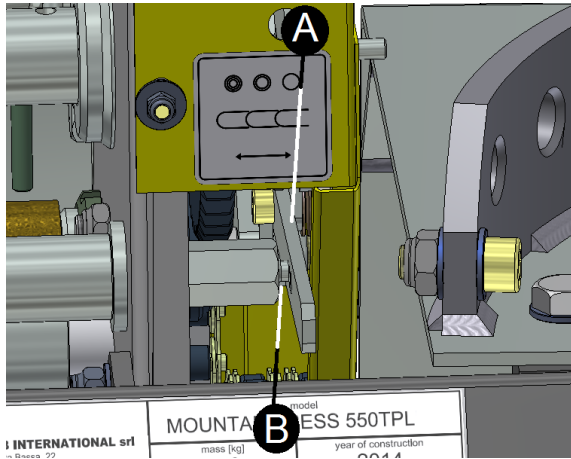


Fig. 26 Adjustment lever A, fixing pin B

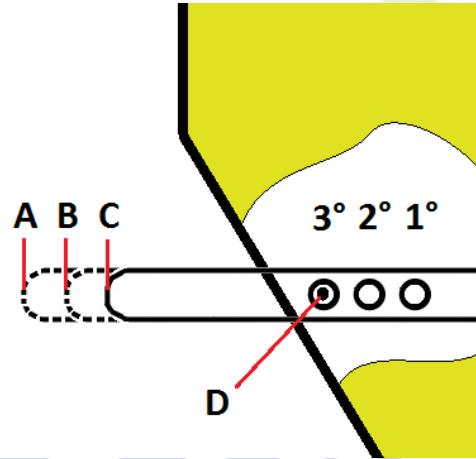


Fig. 27 Positions of the net turns adjustment lever

6.1.7 Door opening and closing

The door opening and closing is controlled hydraulically. Turn the switch to the position "DOOR" (Ref. A in Fig. 25) and press the button UP (Ref. C in Fig. 25) to open the door. Press the button DOWN to close it.

6.1.8 Round bale counter

The round bale counter, located in the front part of the machine, displays the partial number of round bales wrapped. The counter can be reset by rotating the small wheel located on the side of the counter (Fig. 28).

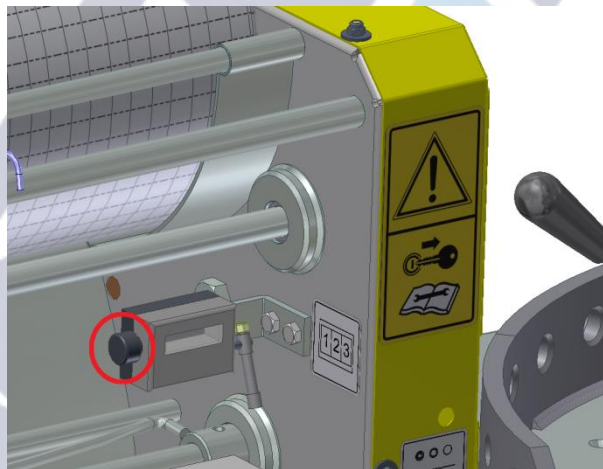


Fig. 28 Location of bale counter and reset wheel

6.2 Assembly of gathering wheels

The gathering wheels are assembled on the side guards of the pick-up. These guards have protruding pins (Ref. B in Fig. 29) on which the wheel support (Ref. A) is inserted; a spring type split pin (Ref. C) secures the wheel assembly. The sloping of the gathering wheels with respect to the pick-up can be adjusted using the screws (Ref. D). The wheels must be assembled so that the springs are in contact with ground as indicated in Fig. 29.

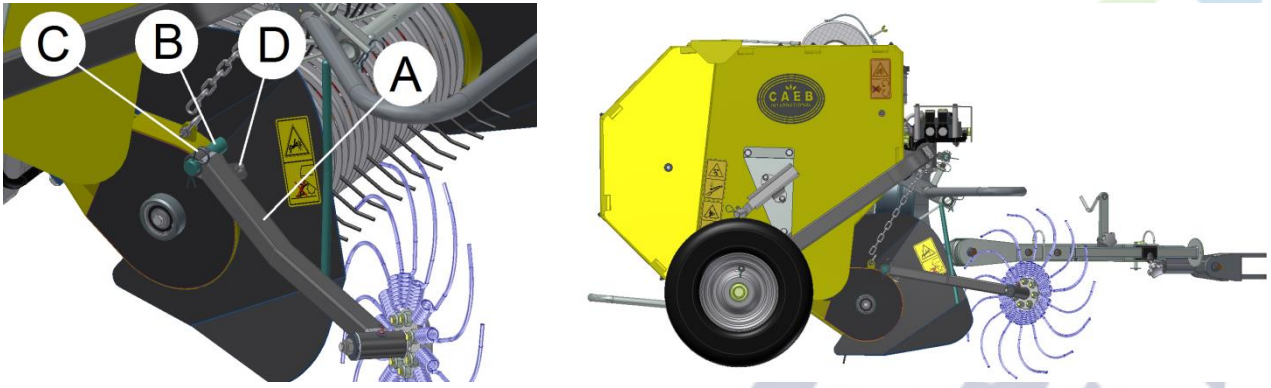


Fig. 29 Assembly of the gathering wheels

6.3 Use of the MOUNTAINPRESS 550TPL

MOUNTAINPRESS 550TPL moves when operating, loading the material from the windrow. Select the forward speed depending on the quantity of the material and the accessibility of the ground, taking into account that the forward speed must not exceed 2.5 km/h (1.5 mi/h)).

The MOUNTAINPRESS 550TPL is fitted with a torque limiter which activates if the machine exceeds the stress limit set. Repeated interventions of the torque limiter could cause wear which compromises the functioning of the transmission parts. Check that the power of the tractor is compatible with the values indicated in paragraph § 2.3.2.

For the correct use of the machine consult the following table:

	<p>Ensure that the length of the windrow is not greater than the length of the pick-up. Proceed along the windrow with the machine loading the material. The gathering wheels allow the collection of distributed material in larger windrows.</p>
	<p>When the alarm activates the bale is formed and ready for wrapping.</p>
	<p>Press the tractor clutch pedal stopping machine progress (but leaving the PTO inserted) and if needed (on a sloping ground) apply the tractor parking brake.</p>

	<p>Press the “WRAP” button for three seconds with the PTO inserted to start the wrapping and net cutting process. It is important not to hold the green button down for more than three seconds to prevent the electrical system from overloading.</p>
	<p>After around five seconds the wrapping is complete and door can be opened to unload the bale.</p>
	<p>When the bale has been unloaded close the door.</p>

Table 5 – Operating instructions for collection and baling

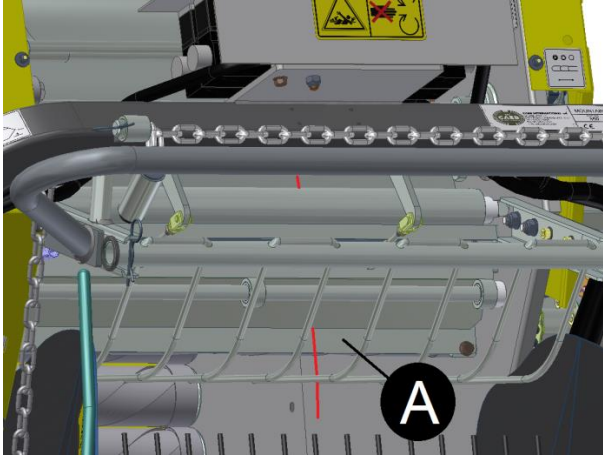
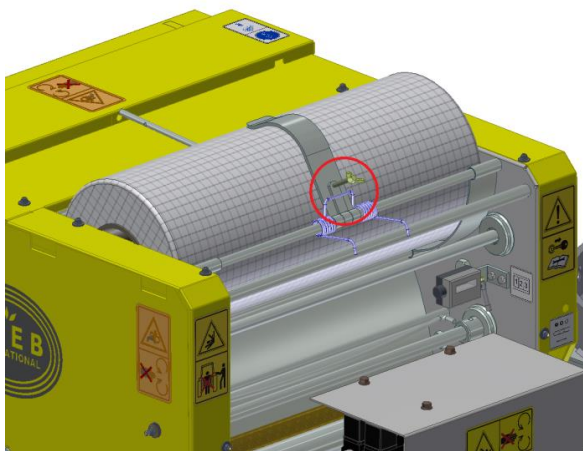
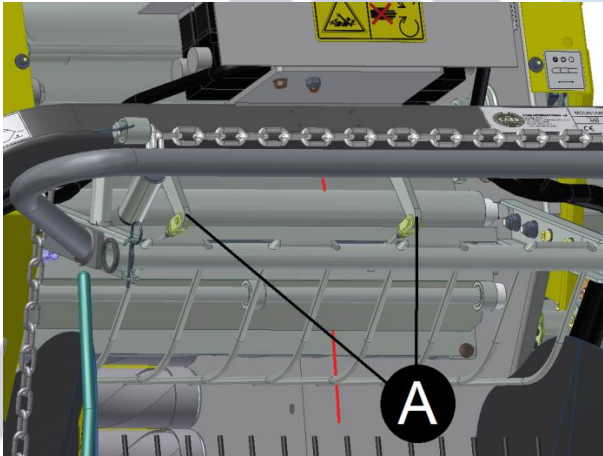
During the collection stage of the machine, do not make sharp turns with the PTO inserted because this would damage the cardan shaft transmission and the angle transmission group. If this maneuver is necessary, disconnect the PTO and turn.

If the work obtained is not satisfactory, review the machine adjustments.

In order to avoid clogging, take great care to ensure that during the collection the forward speed is not excessive, that the windrows are not irregularly shaped and that there are no foreign bodies in the product to bale.

6.4 Replacement of the net roll

	<p>After having removed the reel from the net compartment, position the new roll on the upper level of the machine unrolling the net by about 70 cm and ensuring that the net unrolls from the bottom part of the roll A.</p> <p>Insert the net following the path indicated through the two parts B, above part C until it reaches the two drive rollers D.</p>
--	--

	<p>Insert the net between the drive rollers and rotate the metal one manually until the net comes out of the lower part of the zone indicated as A.</p>
	<p>Position the net roll and act on the wing nut indicated in the figure to adjust the braking pressure of the roll.</p>
	<p>Pull the net that comes out from the rollers arranging it uniformly along the whole length of the drive rollers. Use one hand to hold the net taut and act on one of the points A with the other hand to cut the excess net.</p>

6.5 Troubles, causes and troubleshooting

While using the machine some problems may arise. The following tables (Tab. 6, Tab. 7 and Tab. 8) list the problems with their causes and solutions. In the event that the proposed solutions are not effective, contact the CAEB INTERNATIONAL after-sales service or your retailer.

Wrapping		
Troubles	Causes	Solutions
The net is rolled up on the rubber roller	Dirty drive rollers	See § 6.5.5
	Net pressed between the rollers due to inactivity	
The net does not enter the compacting chamber and is bundled up between the roller and the cutting compartment	Cutting counterblade that blocks the exit of the net	See § 6.5.2
	Net passage compartment dirty or blocked	Clear and clean the net cutting compartment
The net continues to turn without the cutting being carried out	The WRAP button has not been pressed for the necessary time	Repeat the procedure from the start holding the WRAP button down on the pushbutton panel for at least three seconds
The net is only partially cut by the blade	Incorrect blade adjustment	See § 6.5.6
The net tightens at the centre of the round bale	Net roll mounted in wrong position	Check that the net follows the right path (see § 6.4)
	Net rolled in a non-uniform way on the roller	Temporary net roll winding fault
	Roll brake spring not tight enough	§ 6.5.1
The net only wraps one part of the bale	Collection of undesired material during the wrapping stage	Take care not to collect material during the wrapping stage
The wrapping is not carried out	The protection fuse of the MP 550TPL has blown.	Replace the fuse located inside the pushbutton control panel
	The protection fuse of the tractor (if present) has blown	Replace the fuse of the electrical system that supplies the push-button control panel
	Normal wear of the brake lining of the wrapping disc	See § 6.5.4
The net wraps around the bale before the wrapping stage	Normal wear of the wrapping disc lining	See § 6.5.4

Tab. 6 - Wrapping stage troubles

Collection		
Troubles	Causes	Solutions
The forage turns on the rollers	Insufficient forage in the compacting chamber	Insert a sufficient quantity of forage in the chamber to prevent it from falling between the rollers and wrapping them
	Surface damage of the rollers	Identify the roller and use a file to smooth down the damaged part
	Extremely damp forage	Material unsuitable for the formation of bales
The forage stops at the start of the compacting chamber	Insufficient collection forage	Continue with the collection of forage so that the forage that has accumulated is pushed inside the chamber
Clogging between the working zone of the pick-up and the machine compacting chamber	Forward speed too high during during collection	See § 6.5.3
	Very irregular windrows	
	Presence of foreign bodies in the product to press	
The torque limiter disengages	The compacting pressure of the bale is too high	Reduce the compacting pressure
	Presence of a foreign body in the compacting chamber	Stop the cardan shaft and check that there are no foreign bodies, also by manually emptying the compacting chamber, and remove them
The pick-up cannot turn	Presence of a foreign body in the material inlet	Stop the cardan shaft and check that there are no foreign bodies and in case remove them

Tab. 7 - Collection stage troubles

Controls		
Troubles	Causes	Solutions
The hydraulic controls do not respond	Electrical connectors not attached	Check that the electrical connectors on the solenoid valves are intact
	Insufficient hydraulic fluid	Check whether there is fluid in the tank
	Oil filter clogging	See § 7.1.4
	No voltage	Check that the fuses are intact
	Slipping of the transmission belt	Check the transmission belt tension
The door misaligns during the opening stage	Lack of hydraulic fluid	Check the presence of oil inside the tank. Fill up the oil tank.

Tab. 8 - Control troubles

6.5.1 Adjustment of the brake plate spring

Adjust the spring of the brake plate, tightening it based on the decrease in the net roll diameter (Fig. 30)

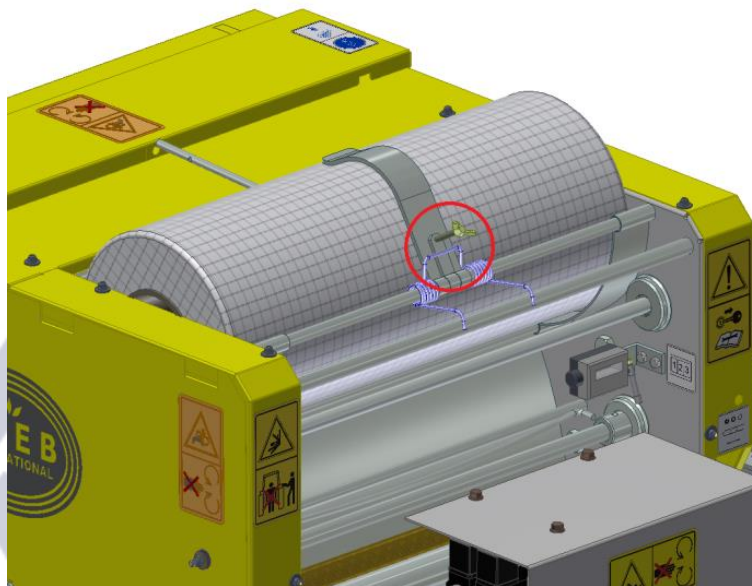


Fig. 30 Brake plate adjustment

6.5.2 Counterblade return springs

The return springs (Ref. B in Fig. 31, one per side) of the counterblade (Ref. A) must be free and clear. If they are not, get rid of the cause (dirt, etc).

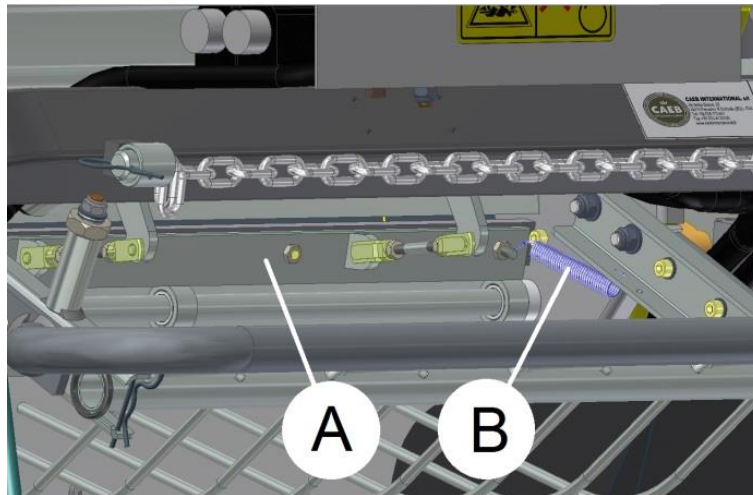


Fig. 31 Counterblade return springs

6.5.3 Baler clogging

Pull the clutch lever of the tractor, disconnect the power take off, stop the tractor and apply the tractor's parking brake. Remove the conveyor rake of the pick-up by pulling off the spring type split pins (Fig. 32), remove the excess forage from the pick-up and remount the rake.

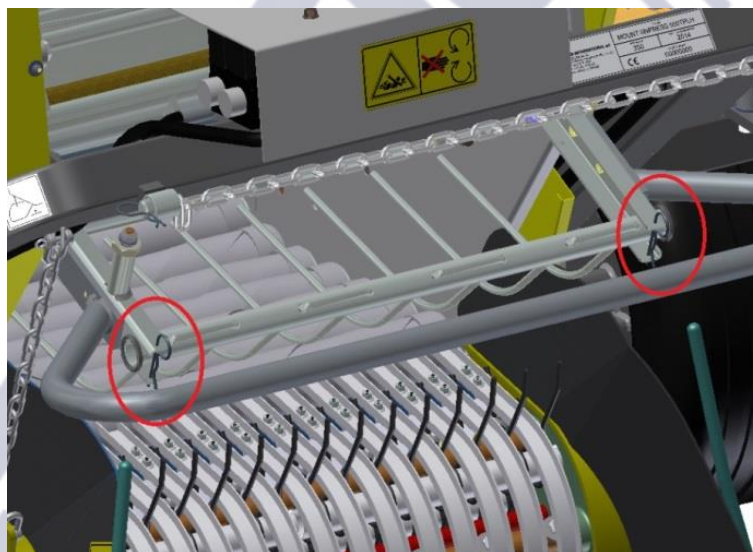


Fig. 32 Position the rake's spring type split pins

6.5.4 Worn lining

Tighten the nut shown in Fig. 33 until it is locked, without tightening too much.

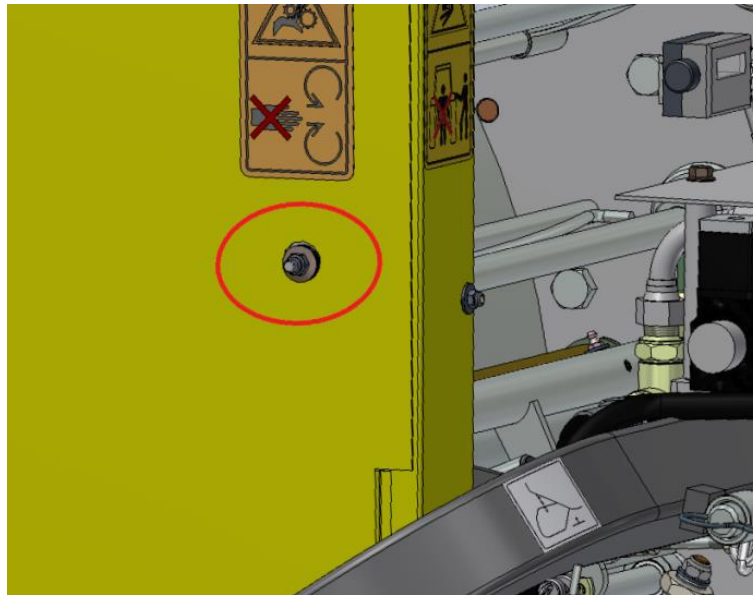


Fig. 33 Nut of the wrapping brake disc

6.5.5 Disengagement of the drive rollers

Manually turn the camshaft (Ref. **A** in Fig. 34) clockwise (looking at the flat surface of the cam **A**) until the two drive rollers (Ref. **B** and **C**) are in neutral (Fig. 34). Unwind the net from the rubber roller (Ref. **B**) and wind it up on the net roll. Check that the net is positioned correctly (see § 6.4). Do not cut the net with blades or sharp tools: the rubber drive roller might be damaged.

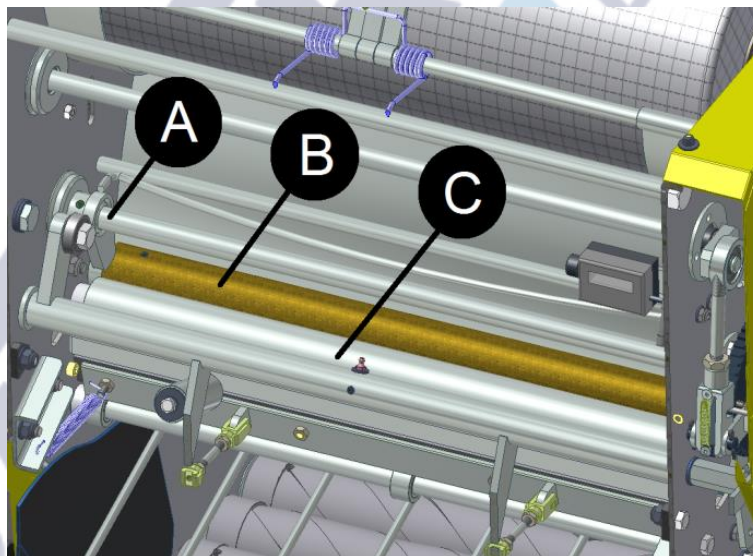


Fig. 34 Putting the drive rollers in neutral

6.5.6 Counterblade adjustment

The counterblade (Ref. **A** in Fig. 31) must come into contact with the blade uniformly. Loosening the nuts (Ref. **B** in Fig. 35) and rotating the threaded rod (Ref. **A**) clockwise or counter-clockwise allows you to adjust the inclination of the counterblade. When pushing the points indicated with both hands (Ref. **C**) the counterblade advances and comes into contact with the blade: you must feel the contact at the same time with both hands.

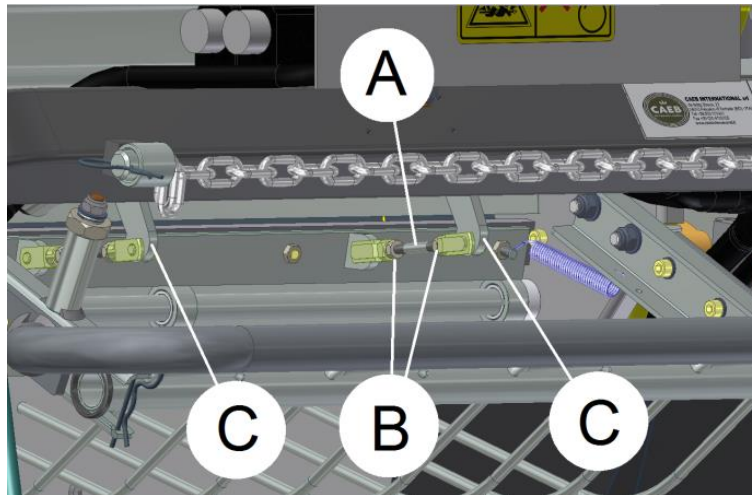


Fig. 35 Adjustment of the counterblade plate

7 ROUTINE AND PREVENTATIVE MAINTENANCE

A good routine maintenance keeps the operating costs of the machine low and allows the maximum use of its potential.



WARNING!

Any work of maintenance, adjustment and cleaning must be carried out with the engine of the tractor switched off and with the parking brake applied.

In the event of failure, the operator must immediately stop the tractor, check the nature of the trouble and proceed with any interventions on the machine before using it again.



WARNING!

For the maintenance operations always use the suitable Personal Protective Equipment (safety shoes with non-slip soles and work gloves) and arrange all the forms of accident prevention outlined for the type of operation underway.

- It is recommended that all the nuts and bolts are checked for tightness every eight hours of effective work.
- For particular interventions or for the replacement of damaged parts not considered in this Manual, you must contact CAEB INTERNATIONAL after-sales service or its retailers.
- Only use original spare parts supplied by the manufacturer.
- Keep the machine free and clear from foreign bodies (debris, tools, other objects) which could damage it and its operation or cause harm to the operator.
- The use of pressurized air or water to clean the machine is not recommended as it could damage the machine bearings.
- Follow Tab. 9 to perform the maintenance

Frequency *	Intervention	Paragraph
Every three hours of work	Lubricate the transmission chains of the rollers	§ 7.1.2
	Check the presence of forage in the belt housing	§ 7.2.2
Every 30 hours of work	Grease the points indicated on the machine	§ 7.1.1
Every 50 work hours	Lubricate the transmission chain of the pick-up	§ 7.1.3
	Lubricate the net insertion chain	
	Lubricate the eccentric motion transmission chain	§ 7.1.4
	Clean the oil filter	
Every 300 hours of work	Change the oil of the angle gearbox	§ 7.1.6
At the start of the season	Grease the points indicated on the machine	§ 7.1.1
	Check the oil level of the angle gearbox	§ 7.1.6
	Check the level of hydraulic fluid in the tank	§ 7.1.5

Tab. 9 Maintenance summary table

* 30 hours of work correspond to a production of around 1800 bales.

7.1 Greasing and lubrication

The greasing and lubrication points are shown in Fig. 37 and Fig. 38.

7.1.1 Greasing of points outlined

Greasing with lithium-based grease of the points shown in Fig. 37 after every 30 hours of effective work. It is good practice to clean the greasing heads to remove mud or other residues as a precaution before using them to inject lubricating grease.

7.1.2 Lubrication of roller transmission chains

Every 3 hours of work lift the mobile housing (Ref. **B** in Fig. 36), unlocking the spring clip (Ref. **A**) and lubricate the roller transmission chains (Ref. **C**). If the machine is equipped with an automatic lubrication system, it is not necessary to carry out this operation.

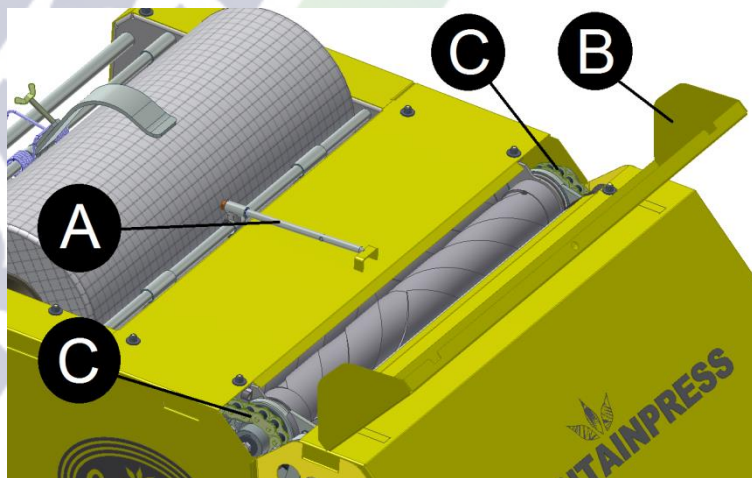


Fig. 36 Lubrication points of the roller transmission chains

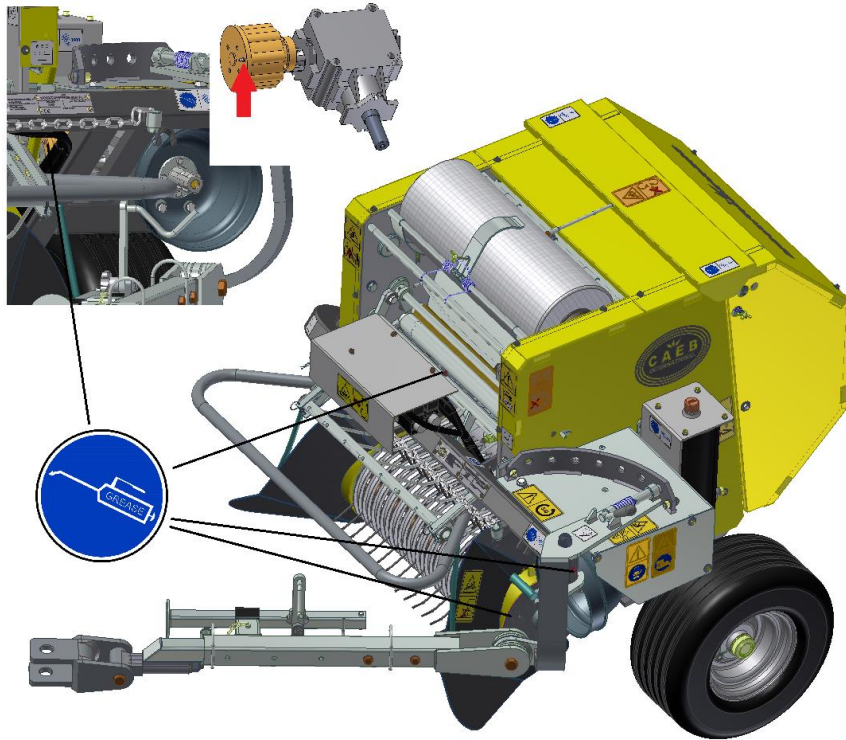


Fig. 37 Greasing points

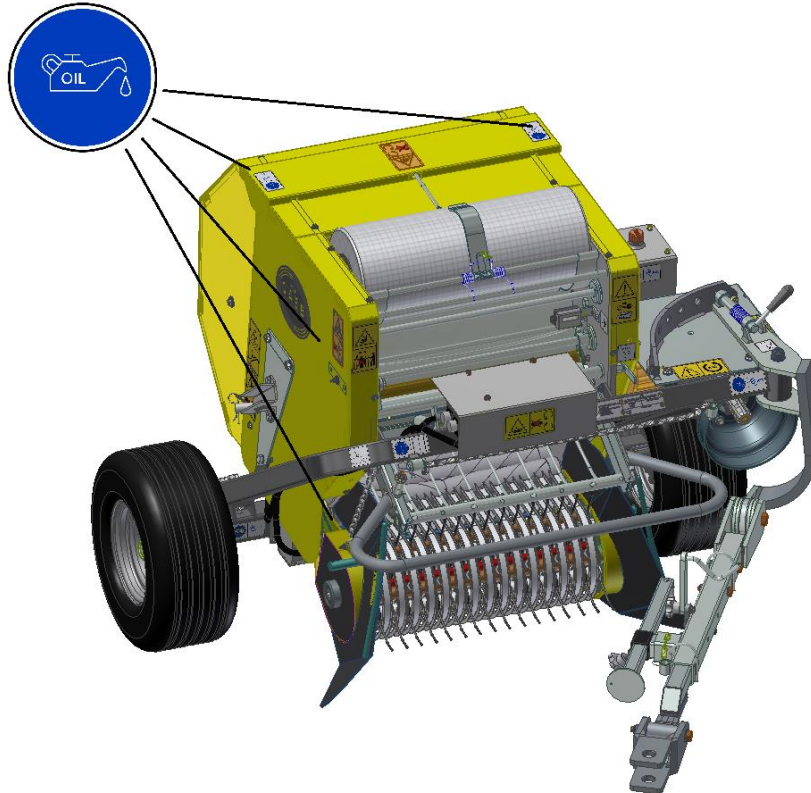


Fig. 38 Lubrication points

7.1.3 Transmission chain lubrication on the left side of the machine

Every 50 hours of work lubricate the transmission chains performing the following operations:

	<p>Unscrew the 4 fixing screws of the side panel.</p>
	<p>Remove the housing that covers the right side with respect to the direction of travel.</p>
	<p>Lubricate the transmission chain of the pick-up, taking care not to lubricate the pulley or the belt.</p>
	<p>Lubricate the net insertion chain, taking care not to dirty the right brake disc with oil.</p>
	<p>Lubricate the eccentric motion transmission chain taking care not to dirty the brake disc just below with oil.</p>
	<p>Replace the housing tightening the 4 fixing screws.</p>

Table 10 - Transmission chains lubrication procedure

7.1.4 Cleaning the oil filter

To clean the oil filter the oil tank must be dismantled. Unscrew the four screws indicated (Ref. **A** in Fig. 39), paying attention to the sealing gasket (Ref. **B**). The filter is located in the lower part of the tank (Ref. **C**) and can be simply slipped off the support on which it is mounted.

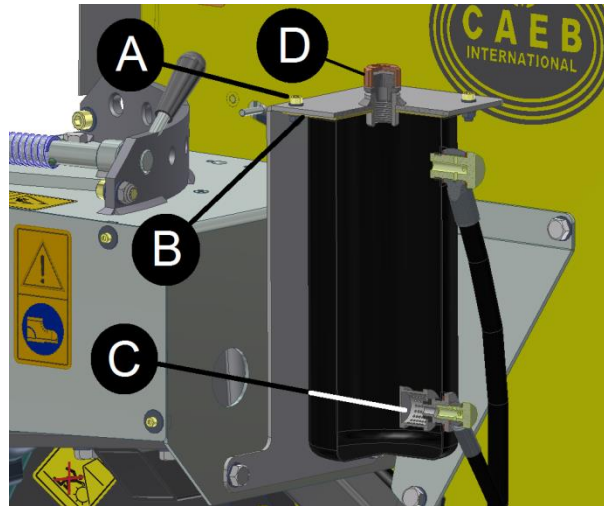


Fig. 39 Oil filter position

7.1.5 Hydraulic fluid level check

To check of the hydraulic fluid level you must unscrew the filling plug (Ref. **D** in Fig. 39): insert a dipstick in the filling plug and checking that the level is between 20 and 27 cm. If the level is lower than this add some ISO 46 hydraulic fluid.

7.1.6 Check the angle gearbox oil level

There is a hole on the angle gearbox housing that allows the gearbox plug to be unscrewed using an allen key (Fig. 40). Unscrew the plug while the machine in a horizontal position to prevent any oil leak. Check that the oil level is flush with the filling hole and if the oil level is low add more until the level of the hole is reached. Use SAE 90/140 type oil.

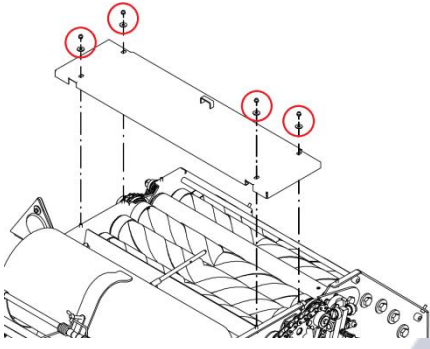
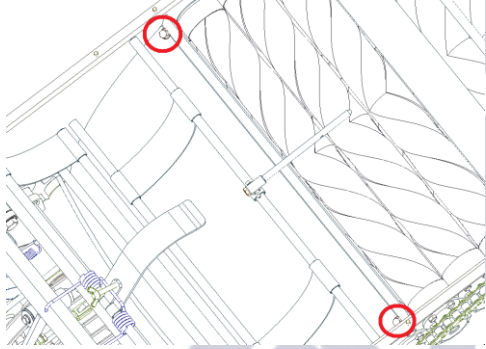
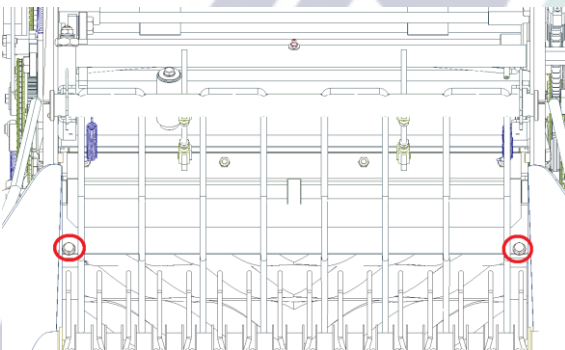


Fig. 40 Angle gearbox oil plug

7.2 Cleaning of the machine

7.2.1 Interspace between the rollers and housing

Following the collection of damp forage, the material accumulated between the rollers and the housing could lead to the rusting and blocking of the rollers. The cleaning of the interspace is carried out before leaving the machine at a standstill (after the collection of damp material) by performing the following operations:

	<p>Dismantle the upper housing taking care not to lose the 4 washers and the 4 nuts.</p>
	<p>Unscrew the two fixing screws in the upper part of the housing, they are positioned behind the supports of the net roll.</p>
	<p>Unscrew the two fixing screws in the lower part of the housing, at the start of the material loading mouth. Slip off the housing from above and remove the material accumulated. Once the cleaning is finished remount the housing.</p>

7.2.2 Cleaning forage off the transmission belt

Every 3 hours of effective work check that the protective housing of the oil pump transmission belt is free and clear from any material. In the event that there is material accumulated, use compressed air to remove it. The point at which the compressed air should be directed is shown in Fig. 41.

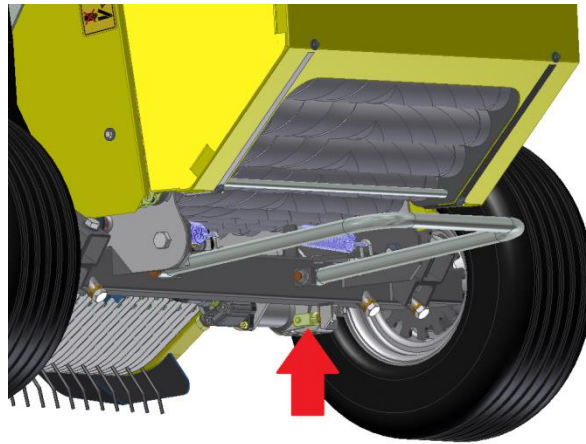
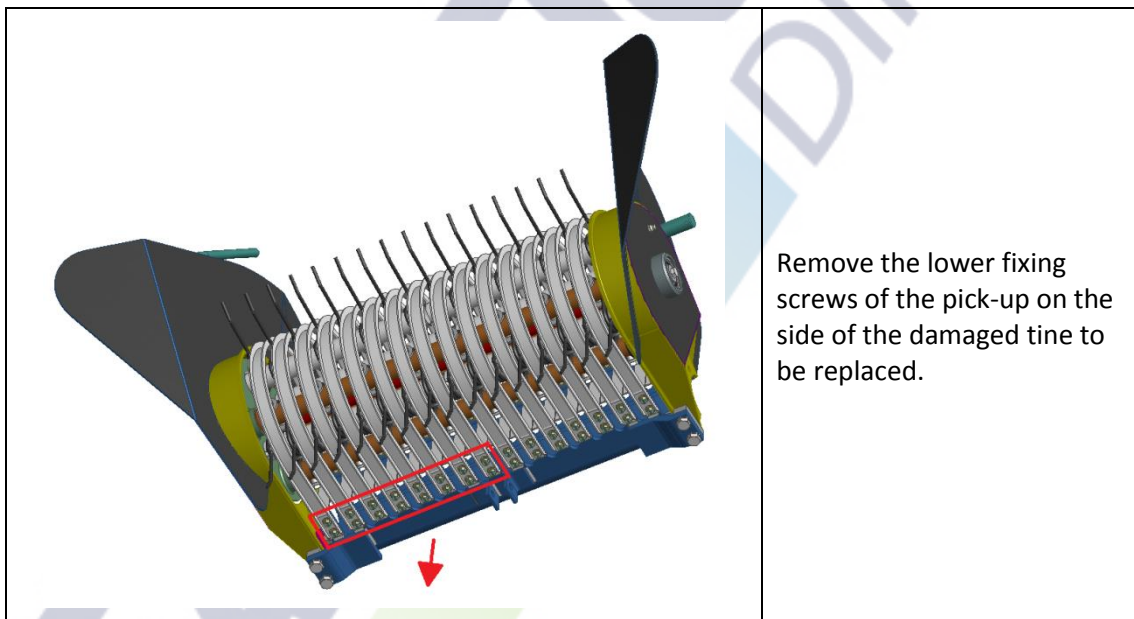


Fig. 41 Belt cover housing cleaning point

7.3 Replacement of the pick-up tines

If the pick-up tines are damaged they can be replaced. The tines are mounted in groups in the pick-up: to replace a tine, the group in which it is mounted must be disassembled. The following figures show the procedure; for purposes of simplicity only the pick-up is shown.



	<p>Remove the upper screws and the bands.</p>
	<p>Remove the fixing screws of the tines of a group as indicated in the figure and remove the tine group.</p>
	<p>Use pliers to put out of shape the support tube of the tine group (Ref A in figure) and slip the damaged tine off.</p>
<p>Replace the damaged tine and shape the tube to prevent the tines from slipping off. Perform the operations in reverse order to mount the pick-up.</p>	

7.4 Warehousing – Storage

7.4.1 Storage

Before unhooking the MOUNTAINPRESS 550TPL from the tractor, position it on flat ground, apply the parking brake on both wheels, rotating the pin by 90° and positioning it in the lowest slot, then lower the support foot Fig. 42, Fig. 43 and Fig. 44). Lock the support foot by tightening the knob. The machine can only be detached from the tractor after having checked that it is stopped and stable.

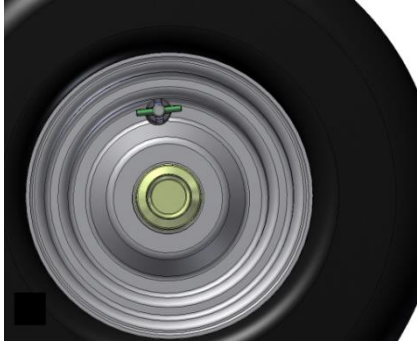


Fig. 42 Parking brake off



Fig. 43 Parking brake on



Fig. 44 Support foot

7.4.2 Warehousing

The end of season cleaning is essential since the inactivity of the machine for long periods of time could compromise the good functioning of the mechanical components.

Before storing the machine for long periods of time the following operations must be carried out:

- Remove the side panels and clean all the dirt deposited on the sides with a detergent.
- Lubricate and grease the mechanical components according to that indicated in paragraph § 7.1.
- Remove the products remaining inside the compacting chamber.
- Carefully clean the outside of the machine by spraying diluted oil with diesel fuel.
- Carry out a general visual inspection of the machine to identify any structural damage, detect any deep abrasions on the paint coating, check that the safety pictograms are present, intact and legible.
- Check that the bolts are tight.

7.5 Scrapping

At the end of its useful life the machine should be disposed of in suitable landfills observing the legislation in force.

Before scrapping, you must separate the recyclable parts in plastic or rubber, aluminum, steel and electrical and electronic material.

Retrieve any used oil and dispose of it in the suitable recycling centers.

8 SPARE PARTS

To replace any parts of MOUNTAINPRESS 550TPL, the client must exclusively use original spare parts, ordering them directly to CAEB INTERNATIONAL or to authorized retailers. Non-original spare parts will invalidate the warranty and could reduce the life and performance of the machine.

When carrying out the order, the client must specify the data recorded on the machine's identification plate, in particular:

- Serial number
- Model
- Year of manufacture

8.1 Machine parts

Fig. 45 and Fig. 46 indicate the macro groups to be specified to identify the parts needed. In the assistance stage more detailed document will be provided for identifying the components.

CAEB INTERNATIONAL guarantees the spare parts for a minimum period of **5 years after the production of the model is discontinued.**

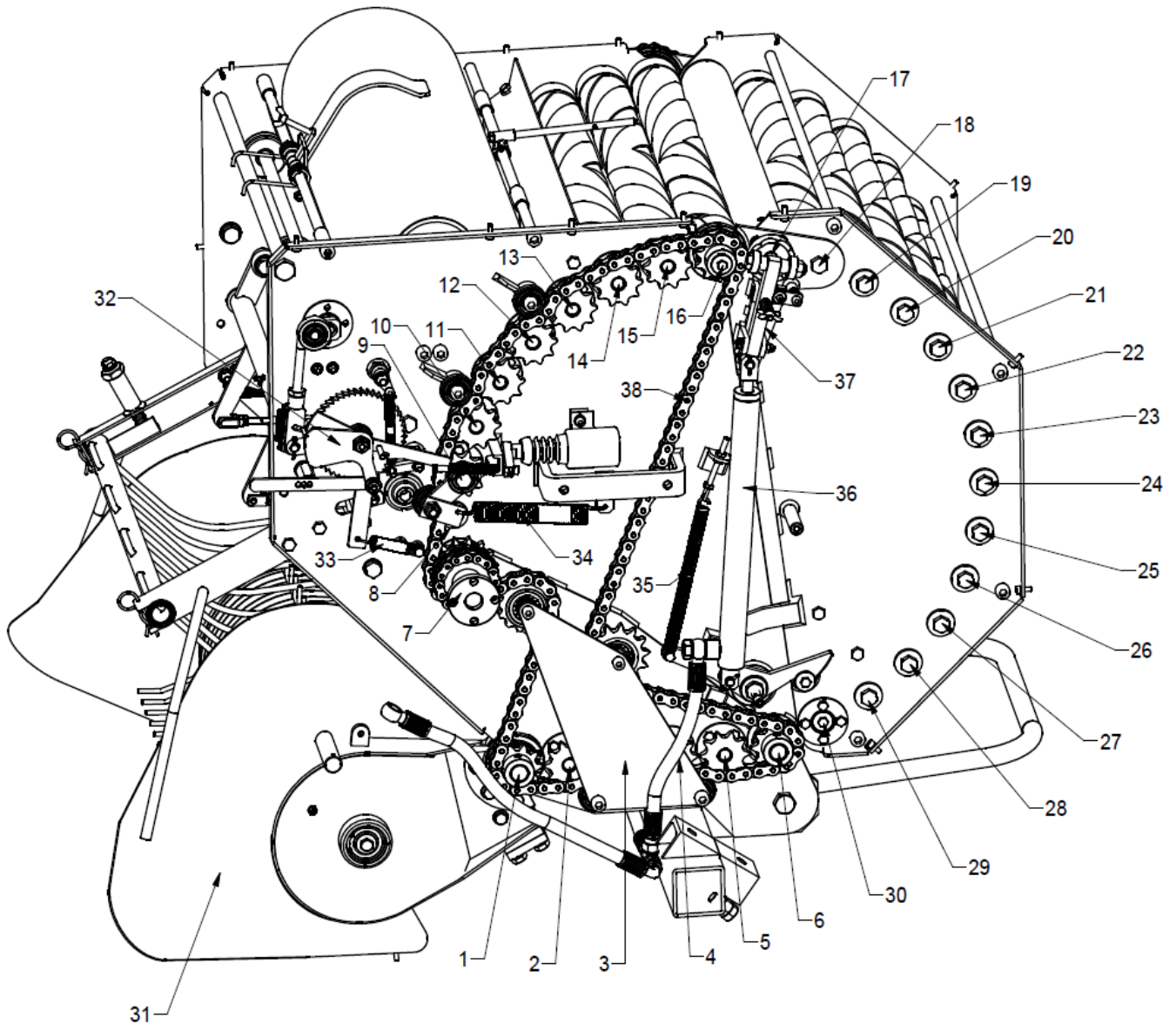


Fig. 45 Right side macro groups identification numbers

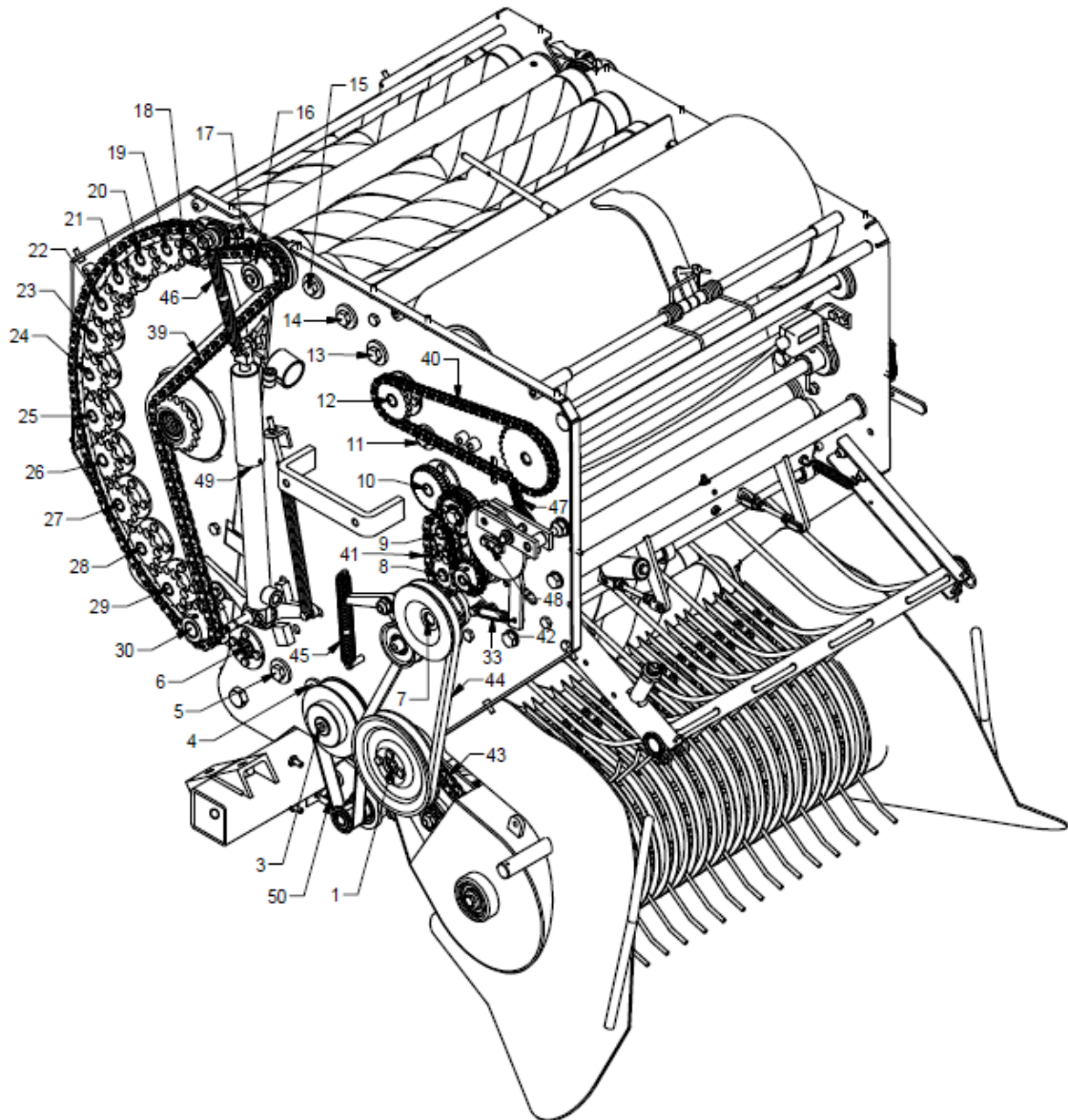


Fig. 46 Left side macro groups identification numbers

9 WARRANTY TERMS AND CONDITIONS

- 9.1 The Products are subject to a warranty period of 12 (twelve) months starting from the delivery date.
- 9.2 The warranty does not refer to consumable materials.
- 9.3 Possible defects shall be notified to CAEB INTERNATIONAL S.r.l. in writing within 8 (eight) days from their detection. Later notifications will not be accepted as claims under warranty.
- 9.4 CAEB INTERNATIONAL S.r.l. undertakes to examine the Products supplied and, should the existence of defects be found to be attributable to CAEB INTERNATIONAL S.r.l., it will provide for replacement or repair, depending on its choice, after the Customer will have made the Products available to CAEB INTERNATIONAL S.r.l.. The Products repaired or replaced will be subject to a 6 (six) month warranty starting from the repair or replacement date.
- 9.5 The warranty only includes the free of charge replacement of the defective Product. The labour costs shall be borne by the Customer. This will in no case be entitled to claim for damages and reimbursements, costs, expenses and damages for downtime machines, production losses and any other damage,
- 9.6 The existence of defects in the Products delivered does not entitle the Customer to stop or postpone the payments due to CAEB INTERNATIONAL S.r.l.
- 9.7 In the following cases the Customer will not be entitled to invoke the warranty: (a) if the Customer has not paid punctually and fully the Price of the Products; (b) if the supply of the Products or part of it has been repaired without prior consent of CAEB INTERNATIONAL S.r.l., has been moved from the place where it had been originally installed without the involvement and/or prior written consent of CAEB INTERNATIONAL S.r.l.; (c) if the Customer has used the Products or any part of the supply of Products without following the maintenance instructions of CAEB INTERNATIONAL S.r.l., included those contained in the user handbook; and/or the Products have not been installed by CAEB INTERNATIONAL S.r.l. or by subjects authorized by CAEB INTERNATIONAL S.r.l.; (d) normal wear and tear; (e) modification, removing or cancellation of the Product serial number.
- 9.8 The present warranty is exclusive and supersedes all other warranties whether expressed or implied.



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