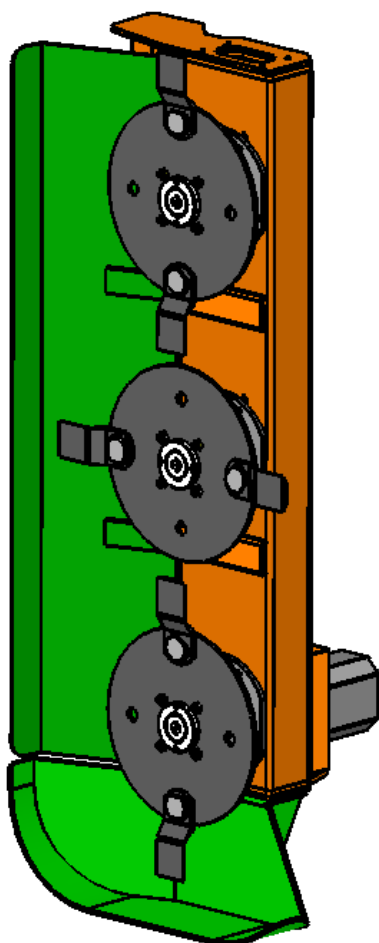


CUTTING SYSTEM 500

Synchronous



MAX. ROTATION SPEED:
2500 rpm

TRANSLATION OF THE ORIGINAL USER'S MANUAL AND SPARE PARTS LIST

It is very important to follow the operating instructions

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1-/ Declaration CE of Conformity Concerning Equipment Covered by Self-Certification

2-/ FOREWORD

All our equipment is designed with the greatest care and manufactured with the best components, resulting in extreme reliability:

- Top-performance motor providing high output with proven durability.
- Blades machined from special steels for extra strength.
- Cutters featuring a special sharpening system and heat-treated for extra hardness.

The result is a range of ultra-professional tools tested to strict standards and suited to the toughest jobs.



**To minimise operating hazards
and avoid incorrect operation
it is essential for hedge cutter users
to familiarise themselves
with this handbook**

3-/ INTRODUCTION

You are now in possession of your new **hedge cutter**. Thank you for choosing our product. We hope it provides you with the total satisfaction you are entitled to expect from high-performance equipment.

The operating, maintenance and spare part manual contains the information you need in order to:

- benefit from the best operating conditions and advanced technical features of your equipment,
- obtain optimum operation through the simple **but thorough** application of maintenance recommendations,
- remedy as quickly as possible small operating problems not requiring specialist attention.

The short time you spend reading this manual will be more than rewarded by the information you gain from it. If some points are still not clear, our after-sales technicians will be pleased to provide any additional information.

4-/ SAFETY INSTRUCTIONS:

4-1/ Signification of the pictogram in the notice



WARNING

This symbol is used to draw your attention to the safety and proper operation of your machine:
It is necessary to observe all safety measures mentioned.



**Mandatory wearing protection
gloves**



**Mandatory wearing safety
shoes**



Mandatory wearing a hard hat



**Mandatory wearing a hard hat,
protection glasses and hearing
protection**

4-2/ General safety instructions

Following the measures introduced by articles R4323-55 and R4323-56 of the Labour Code, driving this machine is strictly reserved for personnel who are trained and designated by name.

4-3/ Checking the conformity of the pruner before starting the machine:

- **Always** check that the cutter bar is correctly fitted to the machine
- **Always** check the condition of the blades and sharpen or replace them if necessary
- **Always** replace damaged discs as soon as you notice vibration. These must always be replaced **in pairs**, to keep the plate balanced,
- **Always** check that the flail discs are balanced and ensure that they are not buckled
- **Always** check for the presence of covers and protective casings and that they are secure.
- **Always** ensure that all safety symbols on the machine are legible, clean them and replace them if necessary
- **Always** check the condition of hydraulic hoses and ensure that there are no leaks
- **Always** check that related components are greased. (bearings and joints)

4-4/ Prior inspection of the work area

Always inspect the work area to check for the possible presence of wire, metal posts, large stones, bottles and other dangerous objects. remove these objects before starting work,

- **Always** ensure that the ground on which the pruner will be moving is stable during cutting operations.
- **Always** ensure that slopes and banks on which the pruner will move do not lead to a loss of stability and cause the machine to overturn
- **Always** note the presence of raised obstacles, particularly electrical cables: in this case, always determine the category of cable, notify the driver, and check the instructions: **(In France)**

*For power lines of less than 50 KV, the minimum working distance to respect is 3m.

*For power lines of greater than 50 KV, the minimum working distance to respect is 5m.

See local regulations in force.

4-5/ General operating instructions

- **Always** keep other people away from the machine and set out a safety perimeter with a radius of 10m around the machine during coupling and uncoupling operations.
- **Always** keep people away from the machine during cutting operations and create a safety perimeter of 100m around the machine to prevent branches from falling or being ejected. Place warning signs to indicate pruning equipment in operation,
- **Always** ensure that people gathering branches and other objects have the appropriate personal protective safety equipment.
- **Always** ensure that people gathering branches and other objects respect and ensure that others respect the safety perimeter.
- **Always** switch off the rotating discs or blades when carrying out manoeuvres not related to cutting: arm movements, reversing, positioning the cutter etc.
- **Always** fold the arms of the machine fully into transport position when travelling along the road and fit the blade protection cover.
- **Always** deactivate the rotation power take-off before switching off the pruner's engine.
- **Always** clean the cutting equipment at the end of each working day: remove branches, leaves and any accumulation of sawdust.

4-6/ Site safety instructions:

When working with the cutter, there is the risk of flying plant debris and falling branches, particularly in the cutting tool's axis.

To avoid these risks, it is necessary to stop anyone from entering the **safety zone**, this being a circle with radius of 100m around the hedge-cutter.

> *Site personnel, pedestrians and cyclists:*

- For site personnel, always wear personal protective equipment (helmet, gloves, glasses etc.), the safety zone can be reduced to 50m.
- Excluding site personnel, it is necessary to ensure that no other people (pedestrians, cyclists etc.) are within an area with a radius of 100m around the hedge-cutter. If people enter the zone, the operator must stop working momentarily to allow enough time for these people to leave this zone.

> *Other vehicles:*

- Other vehicles passing through the safety zone is strictly prohibited while cutting is in progress.

> *Homes alongside the site.*

When homes are inside the safety zone, inform residents of cutting operations and, for their safety, of the need to remain off balconies or terraces, to close windows and shutters and to not leave the house in order to avoid any harm linked to potential flying debris.

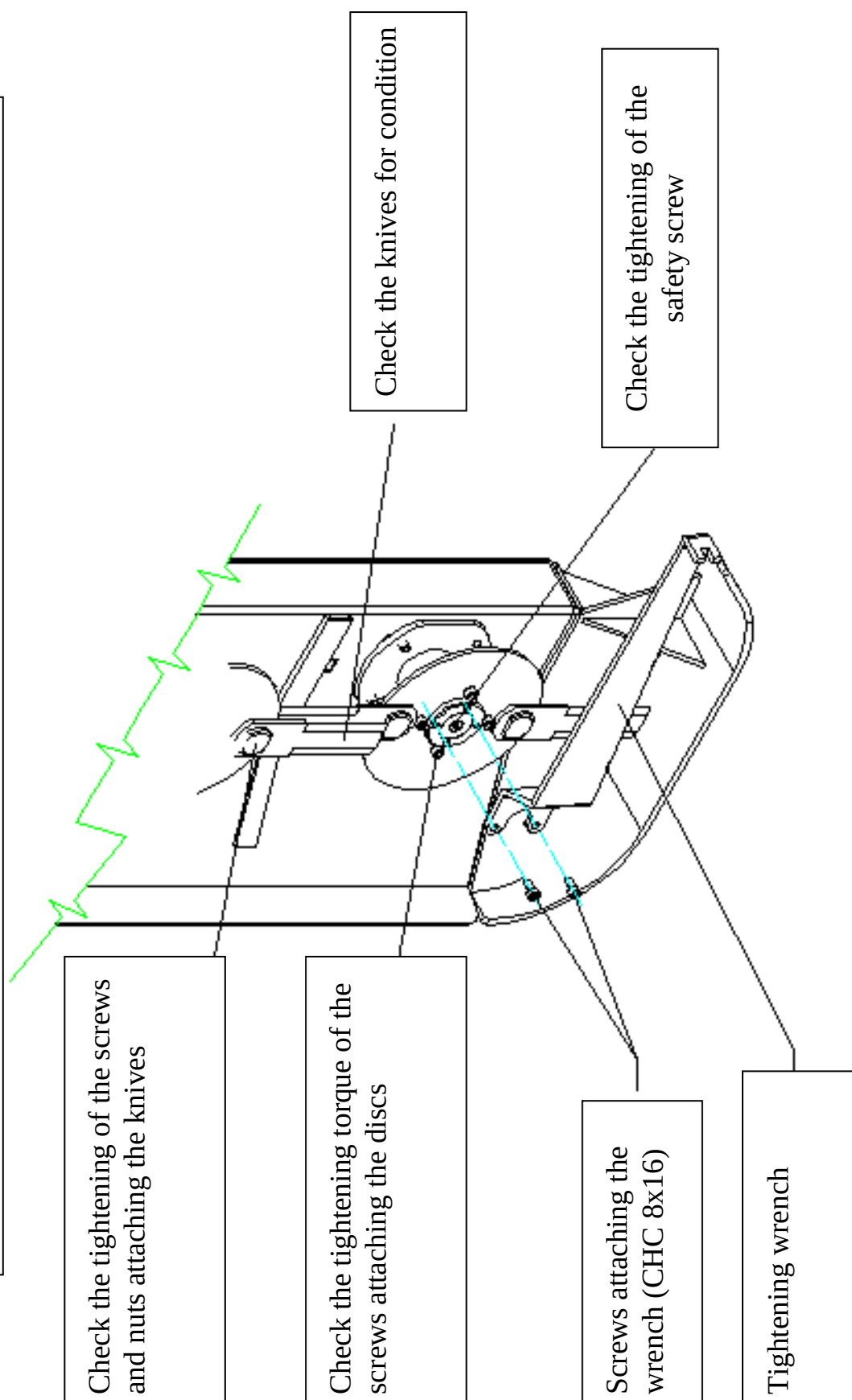
4-7/ Maintenance instructions

- **Always** position the carrying vehicle and machine on flat, stable ground in an open environment to carry out any maintenance operations.
- **Always** wear personal protective equipment for maintenance operations.
 - > Gloves, safety shoes, safety glasses
- **Always** cut the power from the carrying vehicle and activate the parking brake before carrying out any work on the pruning equipment:
 - > Switch off the carrying vehicle's engine.
- **Always** respect all general safety standards in addition to the recommendations given in this manual.
- **Always** use a specialist technician to carry out any maintenance operations other than those described in this manual.
- **Always** keep the blades in good, sharp condition. Replace the blade fixing nuts and bolts each time that they are removed,
- **Always** check that the nuts and bolts on the cutting equipment are securely screwed in before each use.
- **Always** be very careful to follow the procedures described in the manual dismounting and mounting the blades.
- **Always** clean the pruner fully at the end of each working day.
- **Always** replace worn or defective parts with original parts.

4-8/ Contraindications

- **Never** allow non-accredited or untrained people to use this pruning equipment.
- **Never** use this pruning equipment or carrying vehicle under the influence of alcohol.
- **Never** use the machine without setting out the site markings.
- **Never** use the machine during strong winds: maximum: 40 Km/h
- **Never** use the pruning equipment during a storm: risk of lightning
- **Never** work in reverse.
- **Never** stand below the cutting component regardless of its height.
- **Never** continue using the hedge cutter bar when a wire or similar objects have wound themselves around a disc.
- **Never** use cutters that no longer cut. These must always be replaced **in pairs**, to keep the discs balanced,
- **Never** cut branches larger than those recommended in this manual.
- **Never** use the cutter bar without the lower shoe
- **Never** use the pruning equipment without the rear protective casing
- **Never** overhang a traffic zone without having first stopped access
- **Never** travel along the road without having first installed the blade protection cover.
- **Never** leave the blade rotating during manoeuvres with the carrying vehicle when not cutting (changing road, reversing, changing direction etc.)
- **Never** use the pruning equipment at night, nor if light levels do not allow the operator to clearly see the end of the cutting tool.
- **Never** carry out maintenance operations not described in this manual.
- **Never** use spare parts that do not originate from the manufacturer.

BEFORE EACH USE, CHECK THE TIGHTENING OF THE DISCS AND THE KNIVES



5-/ Safety stickers

5-1/ Stickers signification



E1



ROTATIVE TOOLS :
objects and debris are likely to be projected.
Maintain a safe distance relative to the cutter bar.
REF: 25.550.002



E2



Helmet, goggles and hearing protection are mandatory in the work area.
REF: 25.550.017



E3



Anchor for handling.
Réf. 25.550.018



E4



RISK OF CUTS:
Saw blades are cutting tools. Warning when handling and while the cut.
(Ref. 25.550.029)

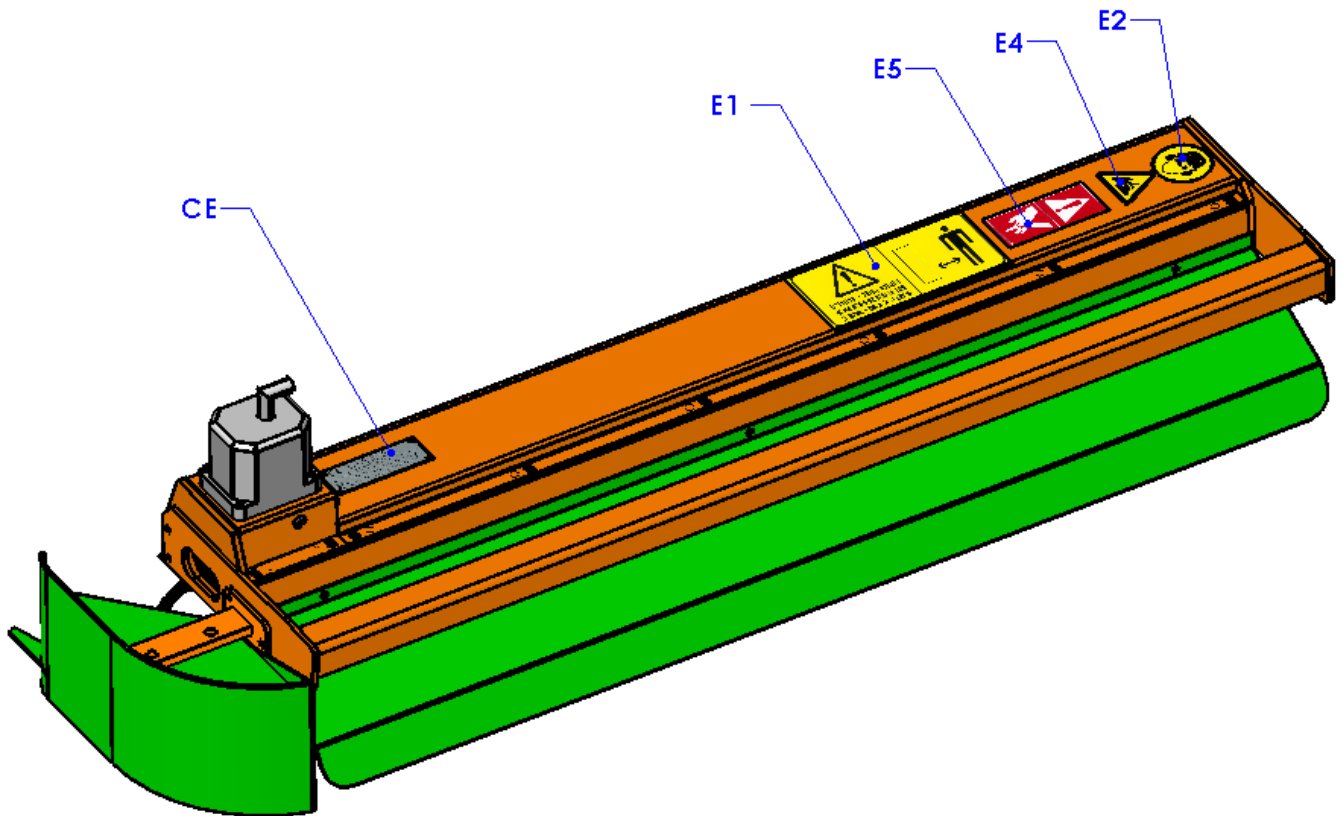


E5



RISK OF CUTS:
Knives are cutting tools. Warning when handling and while the cut.
(Ref. 012866 et 25.550.035)

5-2/ Stickers location on the cutting bar



5-3/ Location of the CE plate.

Information you will find in the plate :

- Designation
- Type
- Serial number
- Year of fabrication
- Weight
- Rotation speed of the plates
- Maximal pressure

6-/ DESCRIPTION OF EQUIPMENT

The synchronous 500 is destined to cut hedges. The toothed belts allow the knives of two plates working in the same plane. Your hedge will be perfectly plane.

The cutting bar 500S need to work at 2500rpm (linear speed: 65 m/s).

It's mounted with flail plates, 2 angled knives, diameter 415 mm.

Dimensional specifications:

	3500S	4500S	5500S
Number of flail plates	3	4	5
Cutting length Lc	1.15 m	1.51 m	1.87 m
Dimensions A (mm)	1215	1580	2300
B (mm)	490		
C (mm)	420		
Weight	66 kg	85 kg	110 kg

Hydraulic specifications:

Flow rate	20 l/min	28 l/min	35 l/min	42 l/min	55 l/min
Gears motor	8 cc	11 cc	14 cc	17 cc	22 cc
Operating pressure	170 bar	170 bar	150 bar	130 bar	100 bar

Motor filter 10 µm
 Drive power 13.5 Hp
 Max. pressure on motor drain 2.5 bar

If the pressure of the loader is higher than recommended, it's imperative to use a pressure limiter.

The motor can operate in the two ways of rotation.

By the way, if a pressure limiter is mounted on the cutting bar, it will operate only in one way.

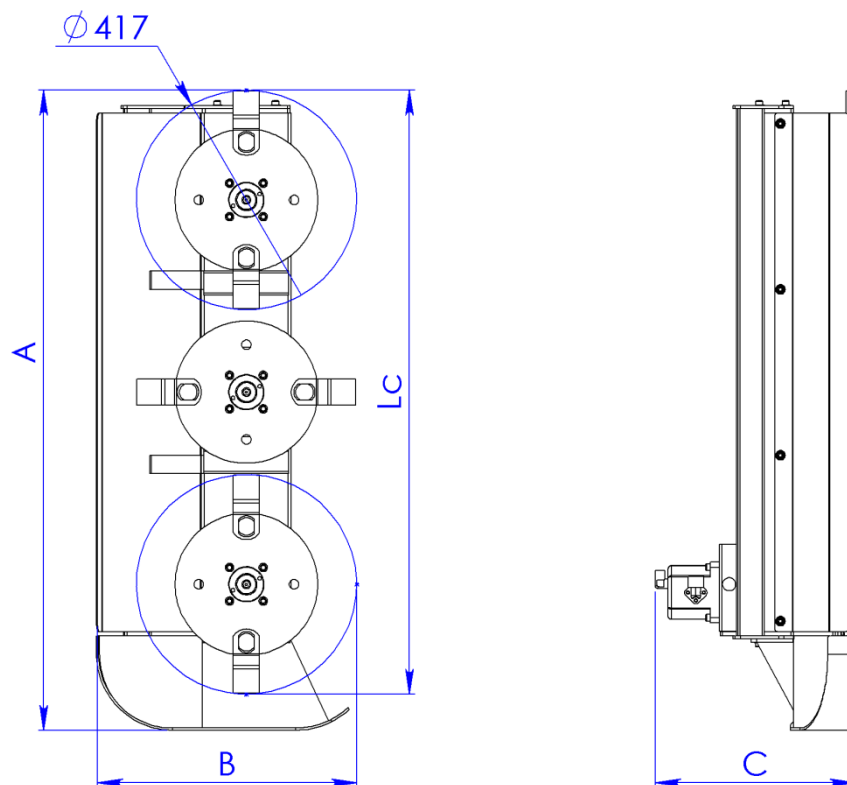
Recommended uses:

Flail plate: - cutting green wood: branches Ø25 mm,
 - cutting dry wood: branches Ø20 mm.

It is essential to choose the suitable cutting tool for the work to be carried out.

High-quality work and user safety can only be achieved if the cutting tools are correctly serviced. Likewise, blunt cutting edges make a greater demand on the hydraulic and mechanical components and causes them to wear out more rapidly. Parts damaged under these circumstances will not be covered by the guarantee.

**This cutting system 500 Synchronise can only be used with flail plat.
It's forbidden to use saw blade on this equipment**



7-/ INSTALLATION AND START-UP

7-1/ Handling



The cutter bar must be equipped with the blade guard during all handling and moving.



7-2 / Installation procedure

Mechanical adaptation

The cutter bar 500 has on the rear of the housing, a beam 50 of square fixing or 70 mm. This allows you to set the cutter bar to the desired height. The adaptation of the carrier is done through a system of vee clamps.

If necessary, a special adaptation can be drawn up on request from the technical department of Coup'Eco



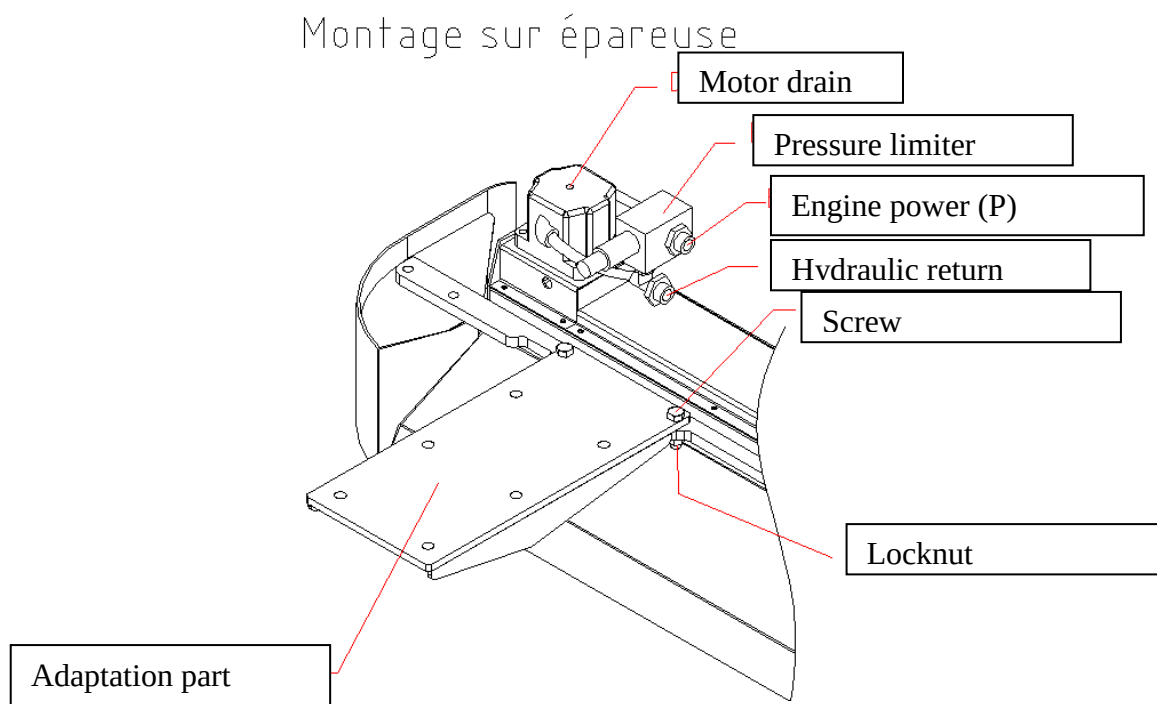
Only use fitting plates provided by the manufacturer (in the contrary case guarantee couldn't apply)

Hydraulic connection

The engine requires a direct drainage back to the reservoir.

It can be powered in two ways.

If the engine is equipped with a pressure or a flow regulator kit, make sure the hydraulic power is made in the right direction



Only use hydraulics kits provided by the manufacturer (in the contrary case guarantee couldn't apply)

7-3/ Choice of the cutting element

Use the flat plate to cut branches up to Ø 20 mm

7-4 / Start procedure:

First of all, it is imperative that the user take cognizance of the manual

If the tractor does not have a post of driving protected, the user must be equipped with:



- **Dust proof goggles**
- **Hard hat**
- **Hearing protection**
- **Gloves**

For the first start, don't forget the elementary instructions (reefer p.12)

Make sure nothing and nobody is close to the cutter bar.

Each time the hedge cutter is started up, apply the following basic rules:

- Remove the blade protection casing.
- Check that there is no obstacle or person near the blade.
- Start up the hedge cutter with the thermal motor operating at reduced speed.
- Operate the equipment for 5 minutes at a mid-range speed to bring the oil and transmission up to temperature (blades rotating at 1500 rpm).
- To start working, set the tractor motor speed to the value recorded during calibration.

8-/ WORKING WITH THE HEDGE CUTTER

8-1/ Choosing the Rotation Direction

- For vertical cutting, the blades and plates must cut in an upward direction for the best cutting quality.
- For horizontal cutting, the blades and plates must rotate in such a way that debris is thrown away from the user.



Our general recommendation is to box in the cabin for protection against flying debris and falling branches.

8-2/ Choosing the Forward Speed

The forward speed depends on the type of vegetation and its density. It also depends on the condition of the terrain over which the tractor is moving. For denser vegetation with larger branches the forward speed must be slower. Similarly, the forward speed must be reduced over uneven terrain. In general, we recommend a forward speed of 0.1 to 0.3 kph.

8-3/ Precautions during use

- * **First of all**, inspect the work area or hedge to check for wires, metal posts, large stones, bottles and other dangerous objects. Remove these objects before starting work.
- * It is preferable to start working from the bottom: the vegetation will then drop away vertically from the cut.

*If the length of the branches to be cut is greater than 30 cm, it is necessary to cut them in 2 times so that they can get under the baffle

* the feed rate must be very slow so that the cut branches have time to be ground and removed

WARNING: Working at ground level is strictly forbidden.

* WARNING: Poorly serviced blades and rotary flails will not cut well and will damage the hedge cutter transmission.

8-4/ Adverse Events during the cut

During the work of pruning you may be faced with different situations that can result in malfunction of the equipment or pruning equipment blocking.

8-4-1/ Jamming branches on the cutterbar

- Stop the progress of the carrier
- Decelerate of the carrier engine
- Immediately cut the hydraulic power of the cutter bar
- Put the cutting bar at the ground level with the cutter bar in vertical position, at the height reached by a man, and on a flat, stable and vacated land.
- Cut the rotation of the PTO.
- Put the electrical box off.
- Activate the parking brake and stop the carrier's engine
- Put the personal protective equipment: gloves, goggles
- Remove branches stuck with hands by rotating the trays (with the hand) if necessary.



9-/ AFTER THE WORK

Before the shutdown, it is essential to go down again the mode at least, and only after carrying out the cut of engine supply.

It is important that the feeding circuit of the engine is equipped with a limiting device of pressure calibrated (protection in the two directions of rotation). During a blocking, it is essential to reduce the mode of engine supply and to cut the engine supply at once. It is then necessary to carry out a reverse gear to give off the fail plats, then to give in rotation, catch of force to the idle.

In all cases, never increase, decrease or reverse brutally the hydraulic engine supply.

9-1/ Transport position

The hedge cutter is supplied with **a blade protection casing which must be fitted on the hedge cutter each time it is transported as soon as work stops.**

Before switching off the motor, it is essential to reduce the power take-off speed to the minimum. Only then can the motor power supply be switched off.

9-2/ Storage

Before switching off the hedge cutter, it should be left to run for 5 minutes with the blades facing upwards so that the roller bearing at the top of the bearing block is well lubricated.

Before switching off the motor, it is essential to reduce the power take-off speed to the minimum. Only then can the motor power supply be switched off.

Clean and grease the hedge cutter thoroughly, leave it to operate for 10 mn, then disconnect the hydraulic kits and fit the protective casings. Store in a dry place providing protection against knocks.

We also recommend wiping the blades with an oil-soaked rag before storage. This will protect them against rust and extend their operating life.

If the hedge cutter is removed from the verge cutter, it should be stored on a flat floor resting in horizontal position on two beams or a pallet, with the blades facing downwards.

If the hedge cutter is left on the verge cutter, store the verge cutter on a flat floor at an angle that guarantees its stability (see Verge cutter Storage).

If a part has to be removed, the openings left must be plugged to prevent foreign matter entering. The length of the machine's operating life depends on keeping the hydraulic circuit clean.

10-/ MAINTENANCE AND ADJUSTMENT

WARNING: **The belts are not covered by guarantee**

10-1/ Lubrication

- All the bearings are greased during assembly at the factory for a period of 150 hours.
- Greasing frequency: every 100 hours of operation.
- Quantity of grease: 18 grams per bearing (3 pump strokes).
- Approved grease: IGOL Rally GREASE with synthetic agents (420g pack)
- Use the grease gun designed for the purpose.
- The bearings should be greased with the equipment in the vertical position.
- Whenever work (maintenance, disassembly and reassembly) is carried out on the blades or rotary flails, apply grease to thread of the nuts securing the plates.

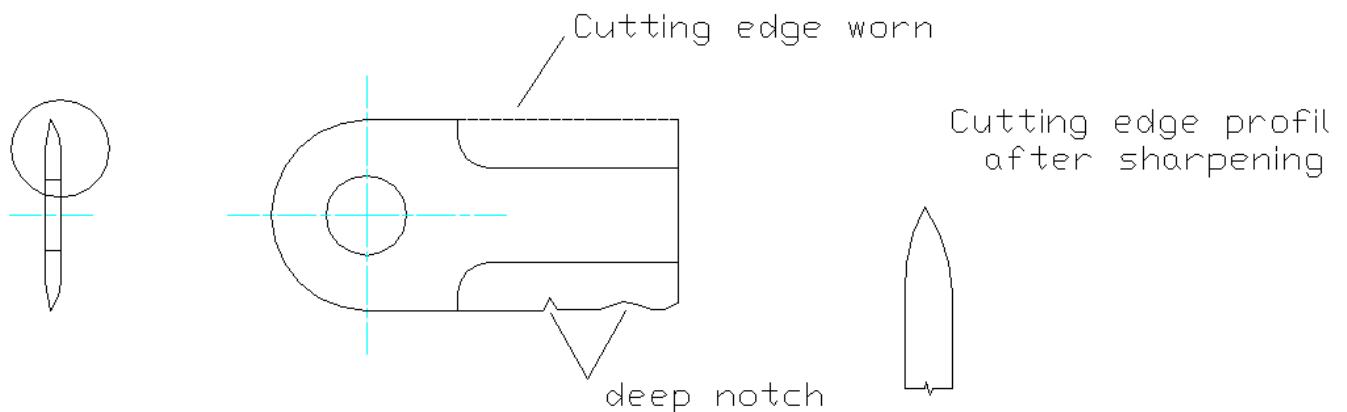
10-2/ Sharpening Flail Cutters



When using new cutters, whether on first start-up or after replacing, the cutting edge should be reworked with a fine file.

A well-sharpened cutter will make a cleaner cut and will have a longer life.
The condition of the flails should therefore be checked every day, replacing them if they are damaged (deep notches) or sharpening them if the cutting edge is marked.

If an obstacle (piece of metal, concrete post, stone, etc.) is struck during work, it is essential to stop and change the damaged flails.



10-3/ Change the knives

It is imperative to replace the bolts at each change of knives.



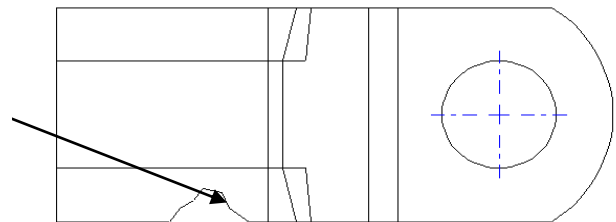
When replacing knives, it is imperative to change both of the same plate at the same time not to unbalance it.

Torque of screw knives: 11 m.kg

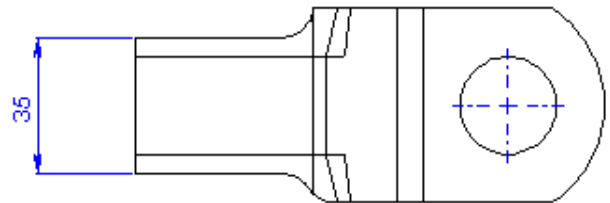
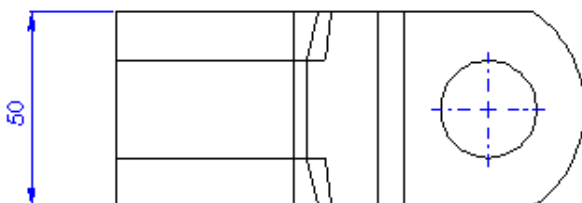
You need to replace the blades if:

- The cutting edge is too blunt for proper sharpening without altering the resistance of the body of the knife or presents deep breaches

Deep breach



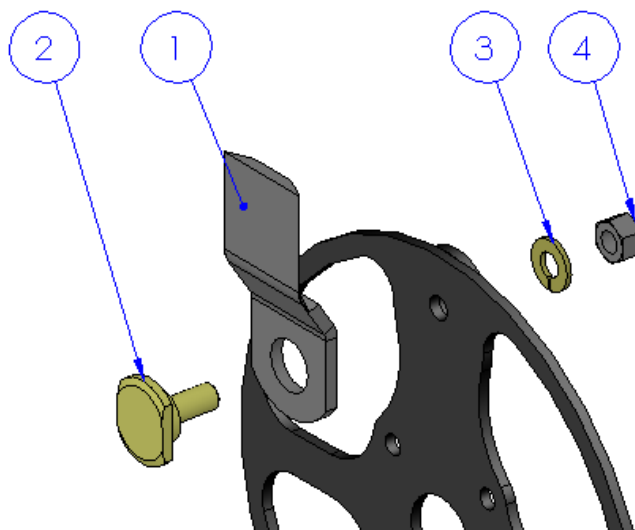
- you have reached the maximum allowed on the knife sharpening: measure the width of the knife to the closest location. If the width is less than 35 mm, replacing the knife





**When replacing knives, it is imperative to replace
the mounting bolts and washers knives**

Rep. 2, 3 et 4



**ATTENTION to the mounting
direction of the knife**

10-4/ Checking Belt Tension

- Place the equipment horizontally, preferably on the ground or on a stand.
- Remove the top cover
- Control belt tension: spacing blocks 364 mm.

If the tension is not correct:

- Unlock the two bearings (except motor bearing)
- Tighten the belt first by loosening the adjusting nut, starting with the bearing closest to the motor
- Tighten the bearing in question
- Do the same for the other belts ending with the landing extreme.



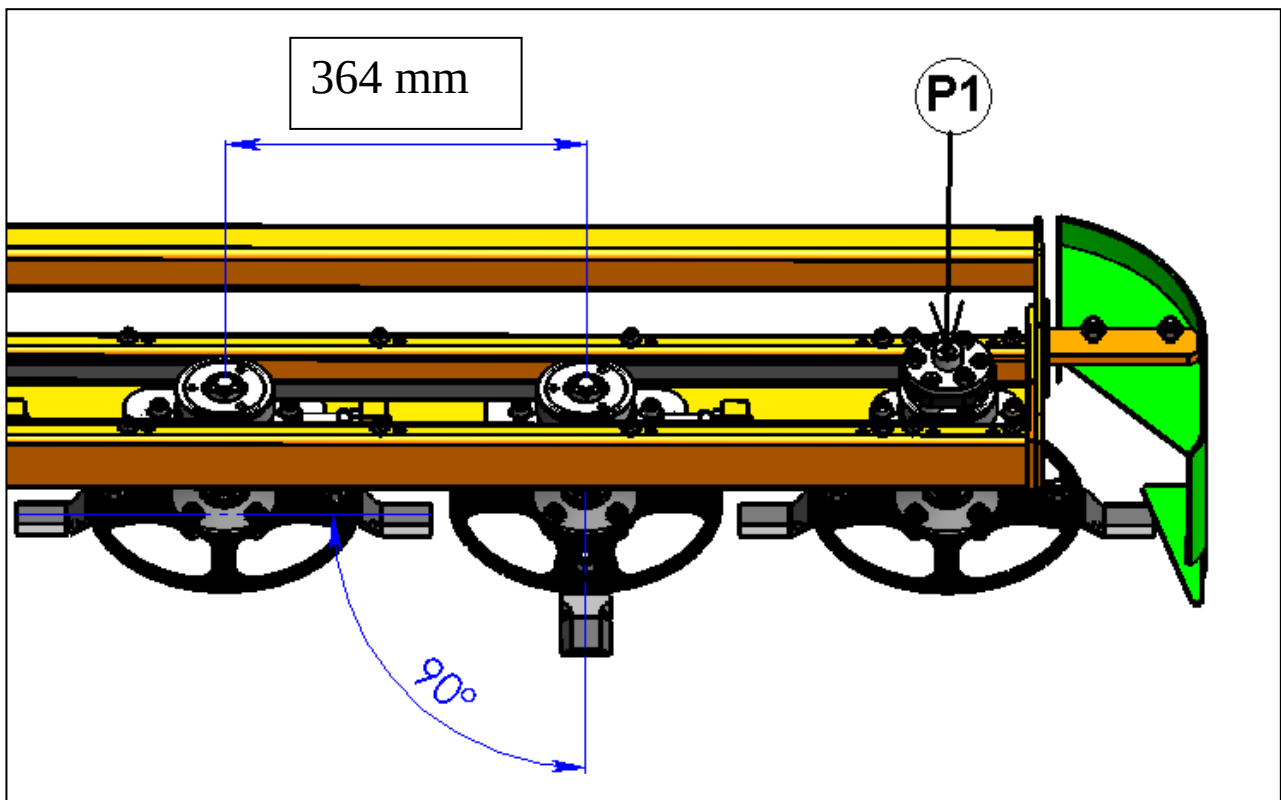
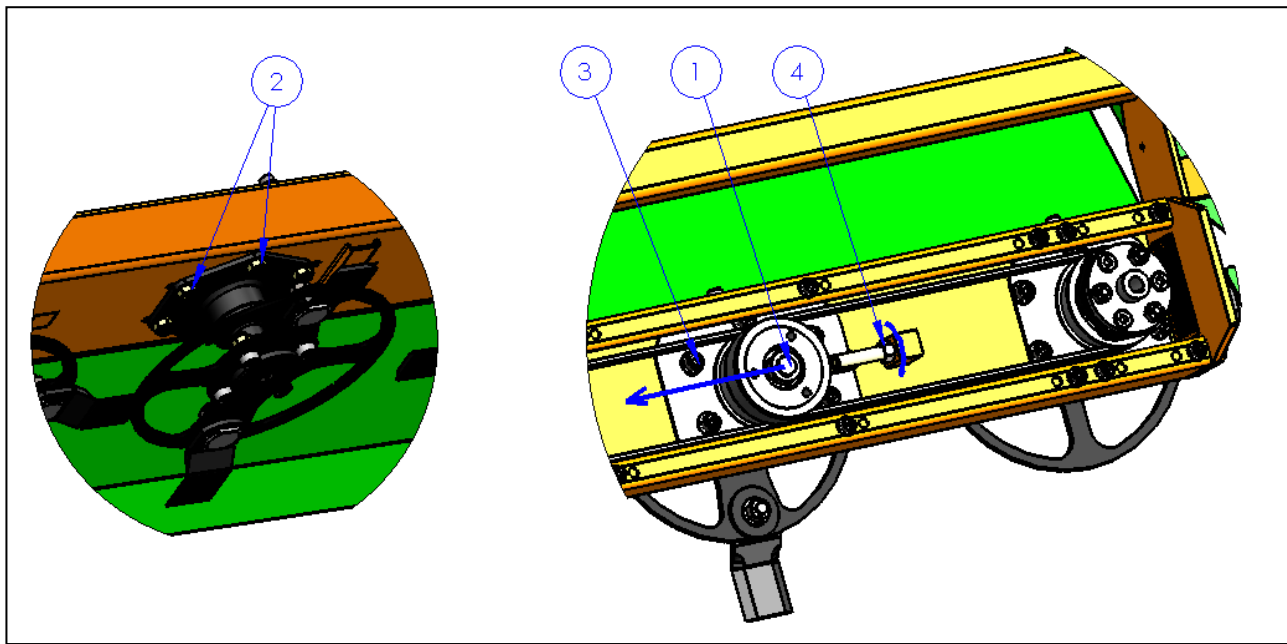
If the motor bearing is removed, it must be centred on the motor, before any other operation is carried out. **It must be in the axis of the motor** (no force should be required to remove or refit the motor)

10-5/ Changing the Belts

procedure:

- Remove the upper casing lantern engine + engine also
- Loosen the two bearings, except motor bearing (rep.2 and 3)
- Remove old belts
- Thoroughly clean the inside of the cutter bar
- Check the condition of bearings and bearing seals
- Inspect the pulleys and ensure the cleanliness of the gorge
- Put the belt through
- Put the two other belts ensuring that the two plates knives successive have an offset of about 90 °
- The principle of voltage is the same as that described above: a spacing of 364 mm is adjusted.

After working on the cutter bar that required the removal of the covers, it is imperative to back the covers with all the screws



10-6/ Tightening torque for CL 8.8 screws

Screw M8	1.94 m. kg
Screw M10	3.87 m. kg
Screw M12	6.75 m. kg
Screw ½ (flail screw)	11 m. kg
Nuts M24x150 (grooved wheel nut)	28 m. kg

10-7/ Troubleshooting

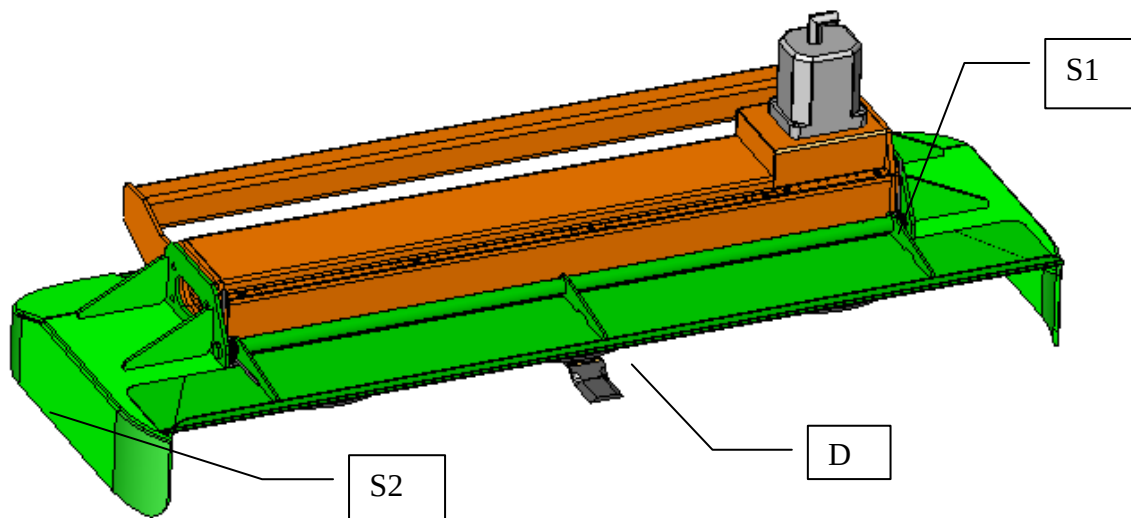
FAILURE	CAUSES	REMEDIES
Damaged belts	- Working with flails on thick wood - Using incorrect flails plat rotation speeds (2500 rpm) - Too fast or too slow	- Determine the exact cause - Change the damaged belts
Damage to a bearing: Broken rod	- Violent impact with an obstacle - Bearing seized: Incorrect lubrication	- Remove the bearing and repair: be careful to change all damaged parts
None of the bearings turn	- Check that the hydraulic supply to the motor is correct. - Motor cotter broken - Flexible coupling destroyed.	- Check machine connection and circuit - Change the cotter. Check condition of shaft and ½ coupling - Change the coupling and check condition of other parts
Unusual noise in the hedge cutter	- Coupling damaged - Grooved wheel loose	- Change the coupling and check condition of other parts - Check the condition of the grooved wheel, cotters, shaft and grooved wheel insert and re-tighten correctly.
Leak on motor shaft	Motor drainage pressure	- If couplings are used for connection, check they are fitted correctly. - Check that drainage is direct to the tank without passing through the filter. - Check that the drainage pipe is not damaged, pinched, etc.

11-/ DEFLECTOR OPTION

Your cutter bar can be optionally equipped with a deflector kit.

This kit is composed by:

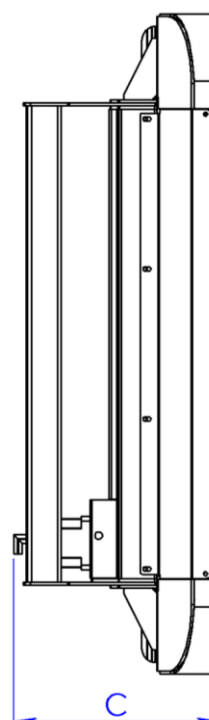
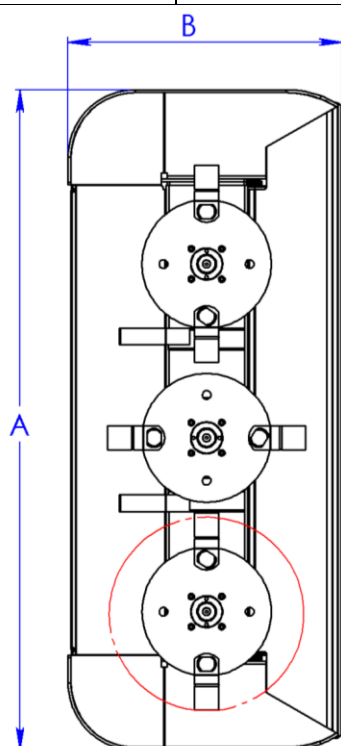
- A lower special shoe **S1**
- A upper shoe **S2**
- A front deflector mounted on springs **D**



The security perimeter around the cutter bar can be reduced to 50 m. when the cutter bar is equipped with the full spoiler kit.

Features of the cutter bar with deflector kit:

	3500S+Kit Déf.	4500S+Kit Déf.	5500S+Kit Déf
Dimensions A (mm)	1400	1750	2200
B (mm)	570		
C (mm)	430		
Weight	90 kg	115 kg	140 kg



12-/ GUARANTEE CONDITIONS

- The guarantee provided by COUP'ECO is for a duration of **1 (one) year** from the date that the equipment is made available at our factory. It only covers manufacturing defects confirmed by our own examination and only commits us to dispatching parts for those recognised as being faulty (excluding labour) and without liability to pay compensation for down-time.

- Faulty assemblies or subassemblies must be returned to the after-sales service within 8 days of the incident, accompanied by a guarantee request:

**Complete and not dismantled
for a STANDARD
REPLACEMENT request**

**Complete and not dismantled
for a GUARANTEE
request**

- Carriage and packing costs for faulty parts, as well as new parts replaced under guarantee will be entirely at the buyer's expense.

- Repair or replacement of parts during the guarantee period does not extend its period of validity.

- All faulty parts replaced by a new part remain the property of COUP'ECO.

- The seller shall not be liable to pay compensation to the buyer for damage suffered, such as:

- Personal injuries,
- Damage to goods other than those covered by the contract.

- The guarantee does not cover everyday wearing parts such as blades, cutters, hoses, etc. or parts damaged accidentally or as the result of inadequate maintenance or failure to follow equipment operating instructions.

- The guarantee expires:

- If replacements or repairs are made by third parties or the buyer himself, without the seller's written consent,
- If parts fitted by the constructor are replaced by parts from a different source,
- If equipment is modified or transformed in any way by any person.

- We reserve the right to make any modifications to our models that we consider necessary, without being under obligation to make these modifications on equipment already delivered.

- In the event of disputes concerning the supply or payment for it, the Commercial Court of SAINTES is the only competent court, regardless of conditions of sales and means of payment accepted, even if the dispute concerns the guarantee or if there are several defendants.

- By express agreement, we remain the owner of delivered goods until they are fully paid for, under the terms of Law No. 80.335 of 12 May 1980.

13-/ SPARE PARTS LIST

Whenever maintenance work is carried out on the hedge cutter, it is essential to contact us to avoid any wrong actions.

For top performance, use COUP'ECO spare parts. This will give users the benefit of the latest developments.

Buy your spare parts from the COUP'ECO original part constructor via your importer or regional approved dealer.

Always mention the type of machine, serial number and part reference number.

Developments made by our company may result in modifications to some parts mentioned in this manual. We always supply the most recent part if it is interchangeable with the previous model.

Please contact us for any additional information you require and also for special studies or products.



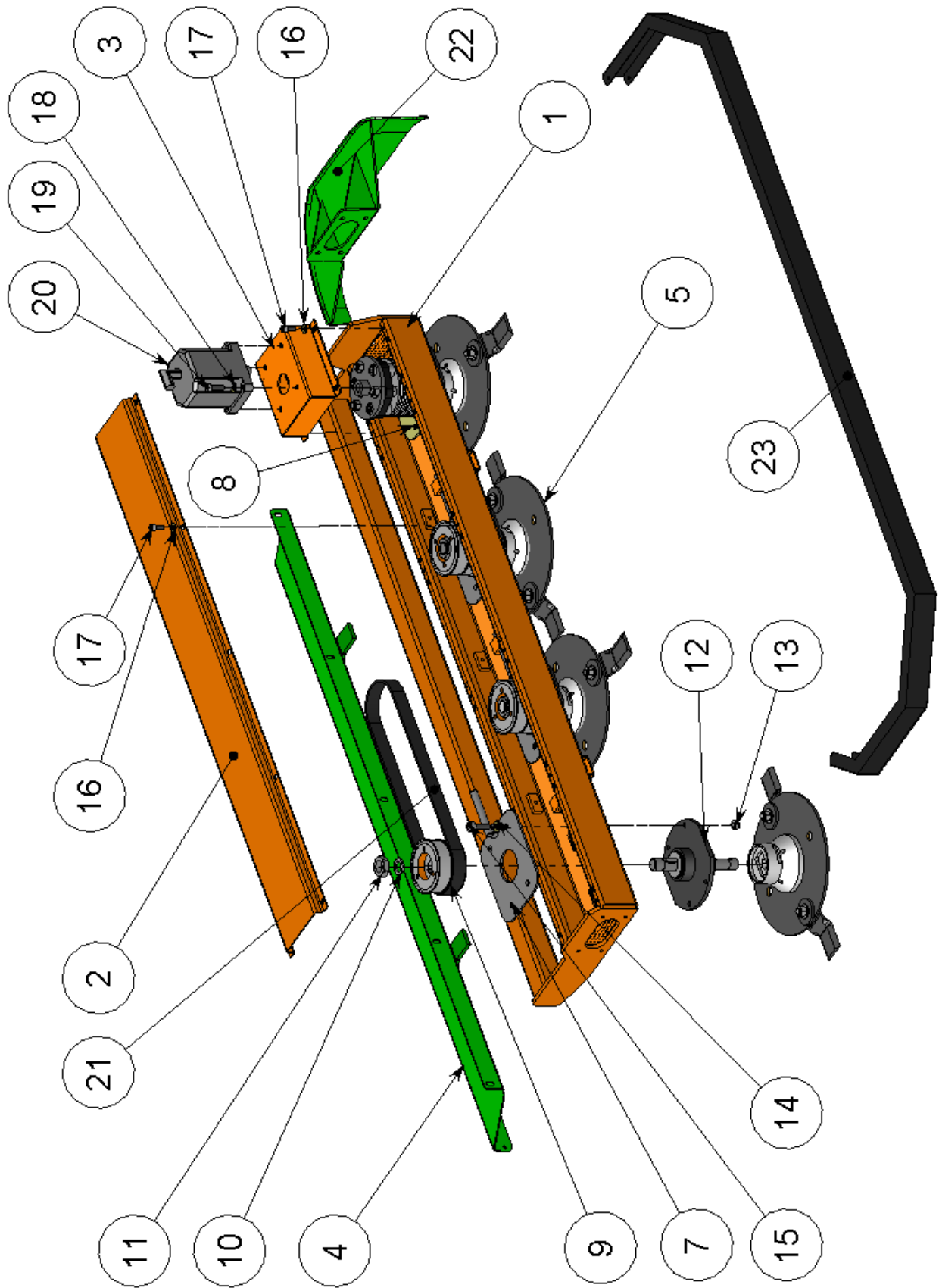
The constructor disclaims all responsibility if the equipment is used in a manner contrary to the recommendations made in this manual.

The user must observe general hygiene and safety rules.

Other measures may be required in addition to our advice and safety rules.

13-1/ Synchronise Edge cutter

Rep.	REF.			PART NAME
	3500 Synchronous	4500 Synchronous	5500 Synchronous	
1	30.510.300	30.510.400	30.510.500	Bare case
2	30.510.320P	30.510.420	30.510.520P + 30.510.522P	Hedge cutter cover
3	30.510.130			Motor seat
4	30.510.340	30.510.440	30.510.540	Rear protective casing
5	TH.440.026			Single disc with 2 knives
7	30.510.127			Bearing tensioning plate
8	30.510.125P			Bearing tensioning plate-motor
9	30.510.HTD			Double pulley Stel
10	21.046.502			NordLock washer NL 24
11	21.029.103			Nut, HM 24x150, bottom
12	30.510.240			Short Bearing
13	21.026.505			Locking nut M10
14	21.036.526			Contact washer 10x20
15	21.075.805			Screw CHC 10x35
16	21.036.529			Contact washer 8x22
17	21.075.701			Screw CHC 8x20
18	21.031.502			Thick washer 8
19	21.075.703			Screw CHC 8x30
20	21.620.800			Gears motor 8cc
	21.620.803			Gears motor 11cc
	21.620.804			Gears motor 14cc
	21.620.805			Gears motor 17cc
	21.620.807			Gears motor 22 cc
21	21.750.517			Toothed belt
22	30.510.160			Foot Hedge cutter
23	30.510.350C	30.510.450	30.510.761 + 30.510.762	Blade casing
				Other part not shown:
	30.511.3T50	30.511.4T50	30.511.5T50	Square support tube, 50 mm
	30.511.3T70	30.511.4T70	30.511.5T70	Square support tube, 70 mm
				Pressure limiter (option)

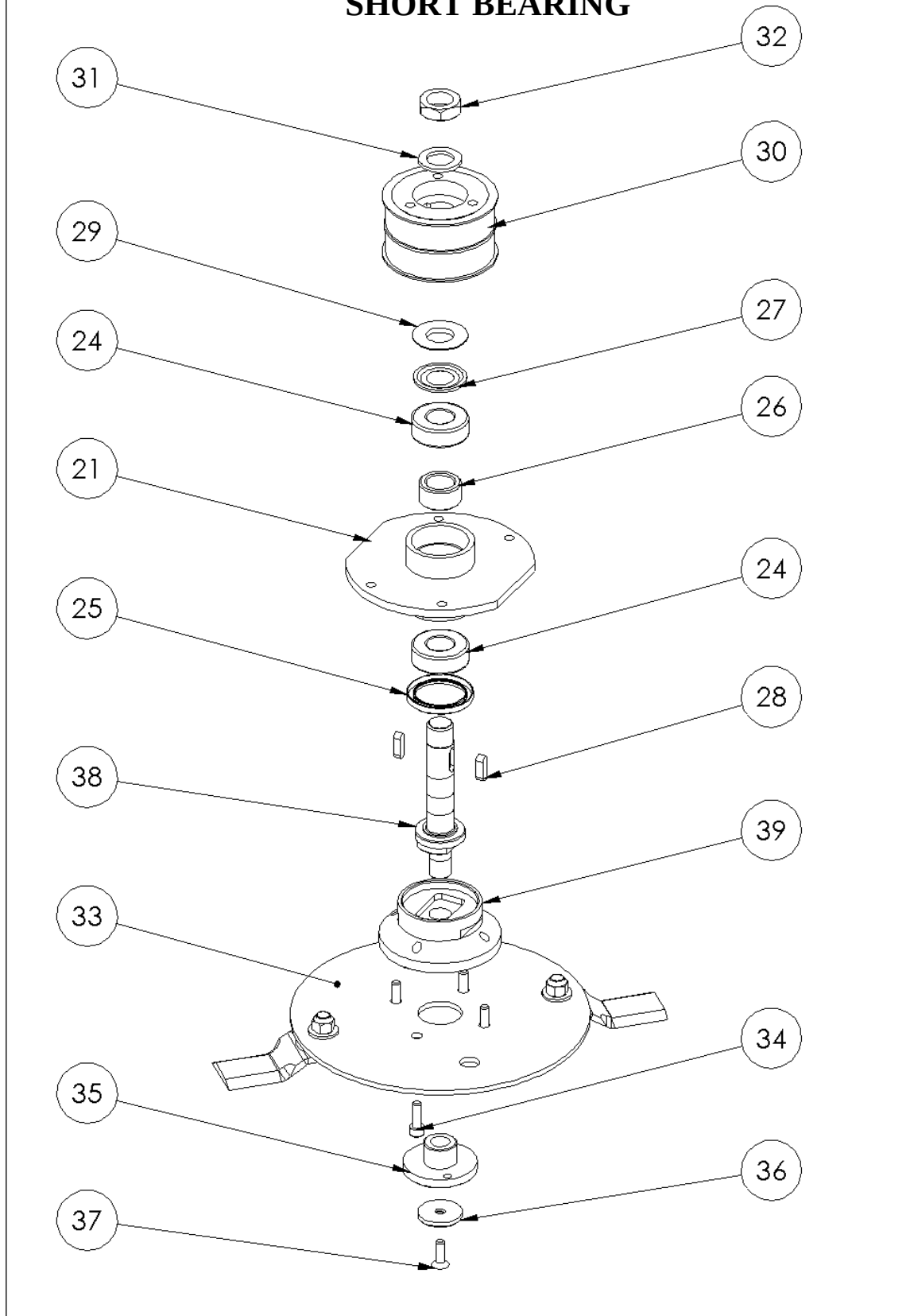


13-2/ Bearings mounting

REFERENCE	DESIGNATION	ITEM
	<i>Bearing mounting</i>	
30.510.213.02	Casing, 500	21
30.510.205.02	Short Shaft 500	38
30.510.219FB	Backing flange, 500, short offset	39
21.675.603	Bearing	24
20.581.808	Lip seal, 45x60x6.5 IE	25
30.510.204.02	Lubrication spacer, 500	26
21.675.505	Nylos seal	27
21.560.525	Key 8x7x25	28
30.510.207.02	Pulley spacer, 500	29
30.510.HTD	Double Pulley HTD39	30
21.046.502	NordLock washer NL 24	31
21.029.103	Nut, HM 24x150, bottom	32
TH.440.026	Complete Flails Plat Ø420	33
21.075.803	Screw, hex skt head 10x25	34
30.510.211	Tightening nut	35
30.510.212	Safety washer	36
21.085.108	Safety screw, TFHC ¼ x1'' UNF 10.9	37
21.020.506	M14 nut for tension plate	

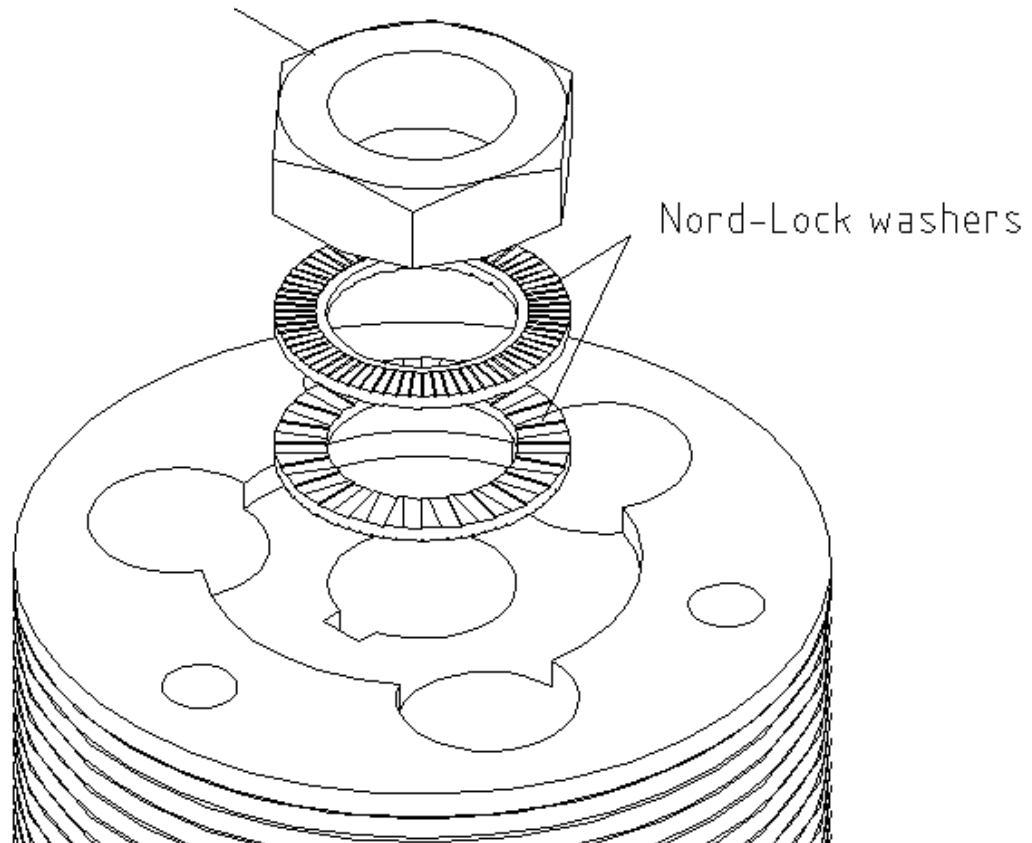
Synchronise BEARING

SHORT BEARING



Fitting the Nord-Lock washers

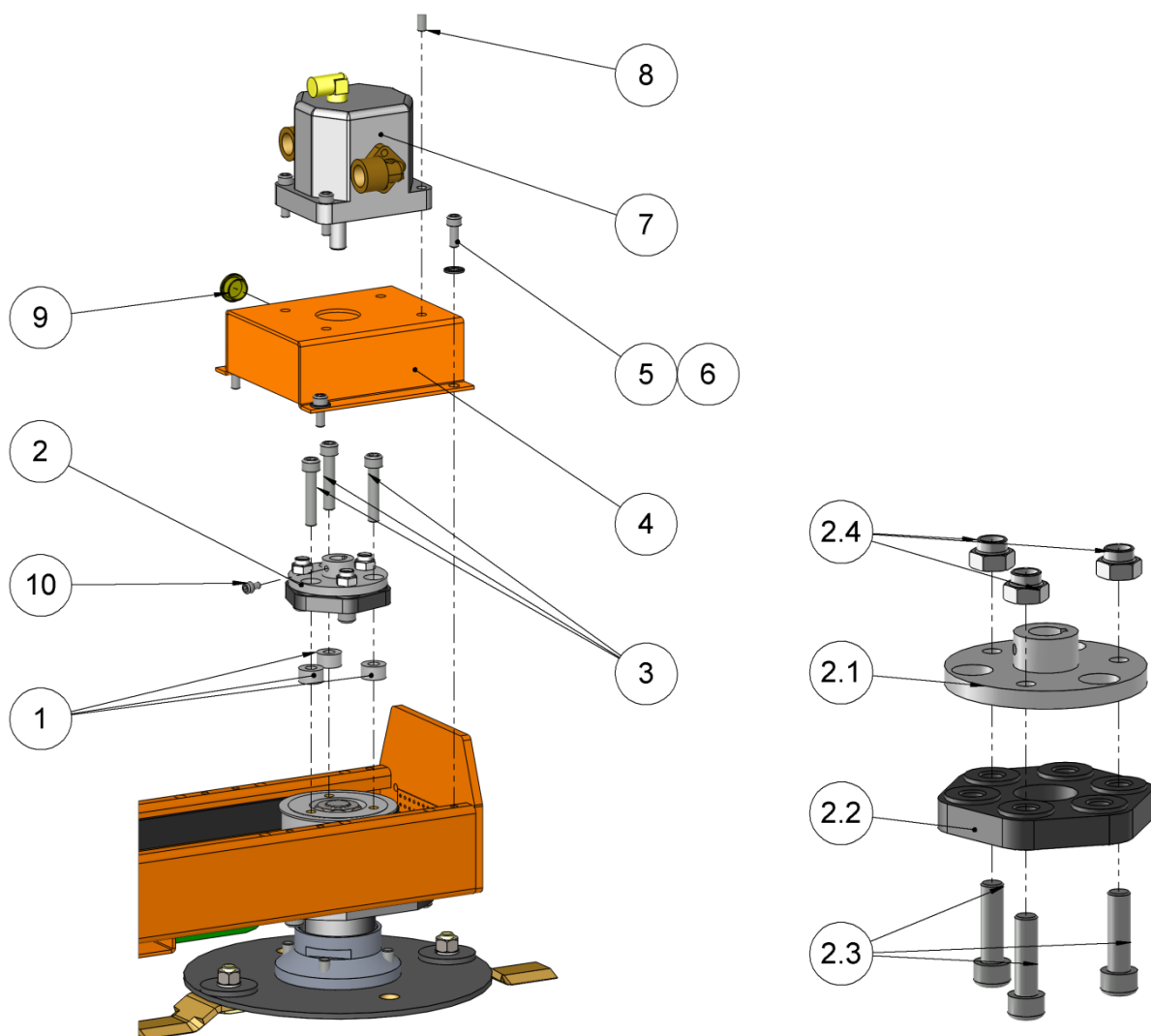
| Flat nut HM 24



- Nord-Lock washer fitting
(Installed in pairs)
- Note the direction (wide faces opposite)
- Do up the HM nut (tightening torque 28 m.kg)

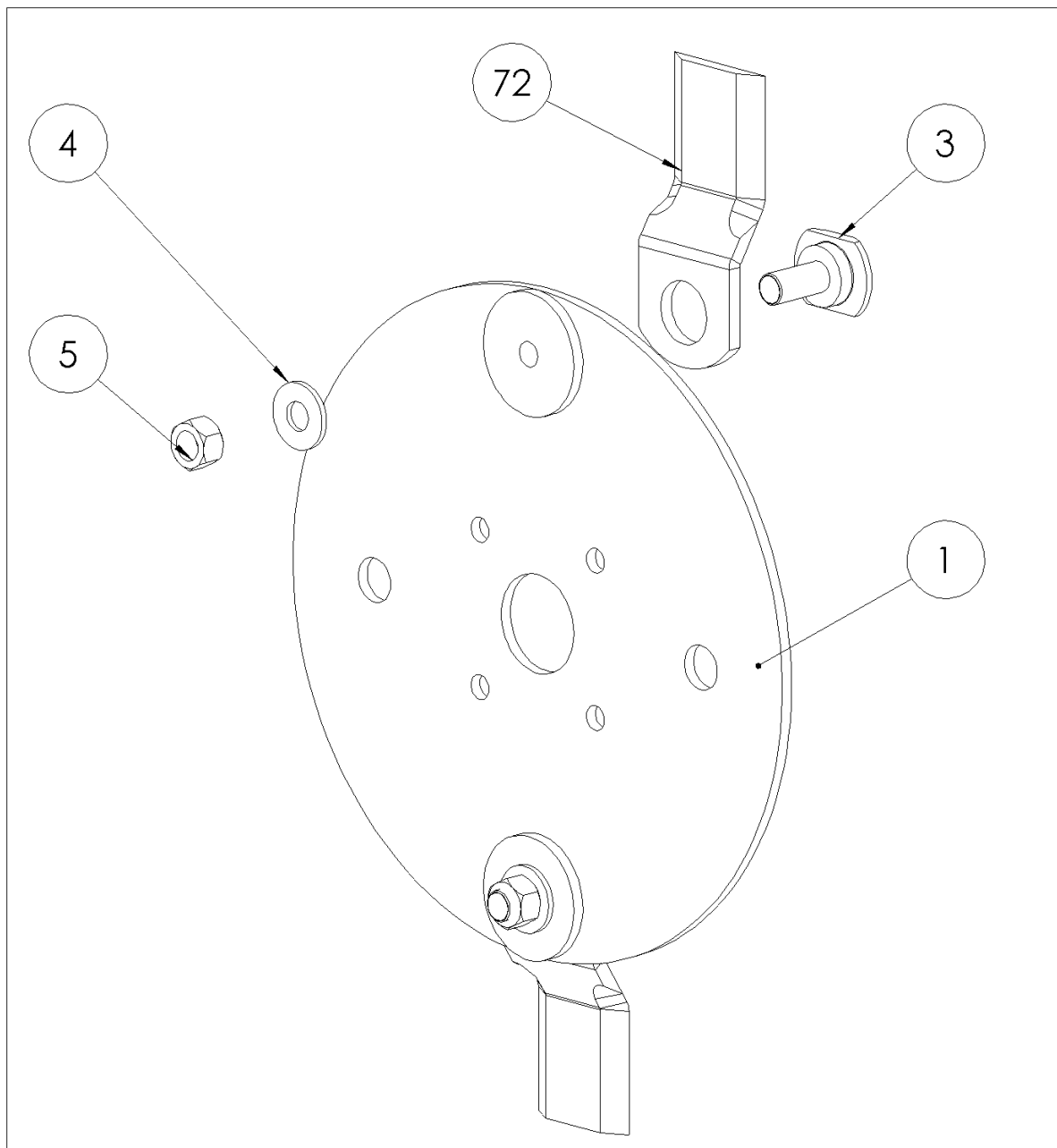
13-3/ Coupling fitting

REFERENCE	DESIGNATION	ITEM
	<i>Coupling fitting</i>	
TH.440.655	Coupling spacer	1
	Coupling 632	2
TH.440.653	Half coupling	2.1
21.667.501	Flector 632	2.2
21.075.805	Allen screw M 10 x 35	2.3
21.026.505	Locknut H M10	2.4
21.075.814	Allen screw M 10 x 50	3
30.510.130	Motor seat 500	4
21.075.701	Allen screw M 8 x 20	5
21.036.529	Contact washer Ø8	6
	Gears motor	7
21.075.703	Allen screw M 8 x 30	8
21.876.502	Cap 1/2 GPN 960/1257	9
21.075.601	Allen screw M 6 x 10	10



13-4/ Fitting discs

REFERENCE	DESIGNATION	ITEM
TH.440.026	Single disc with 2-side, 2-size knives	
TH.440.X61	Unequipped single disc	1
30.600.204	Complete bolt for knives (3 + 4 + 5)	2
30.600.202	Screw stamped 1/2 for knife	3
21.031.602	Grower washer, 1/2	4
21.025.502	Nut, HU 1/2 UNF	5
30.700.457	Angled knife, 2-side, 1-size	72



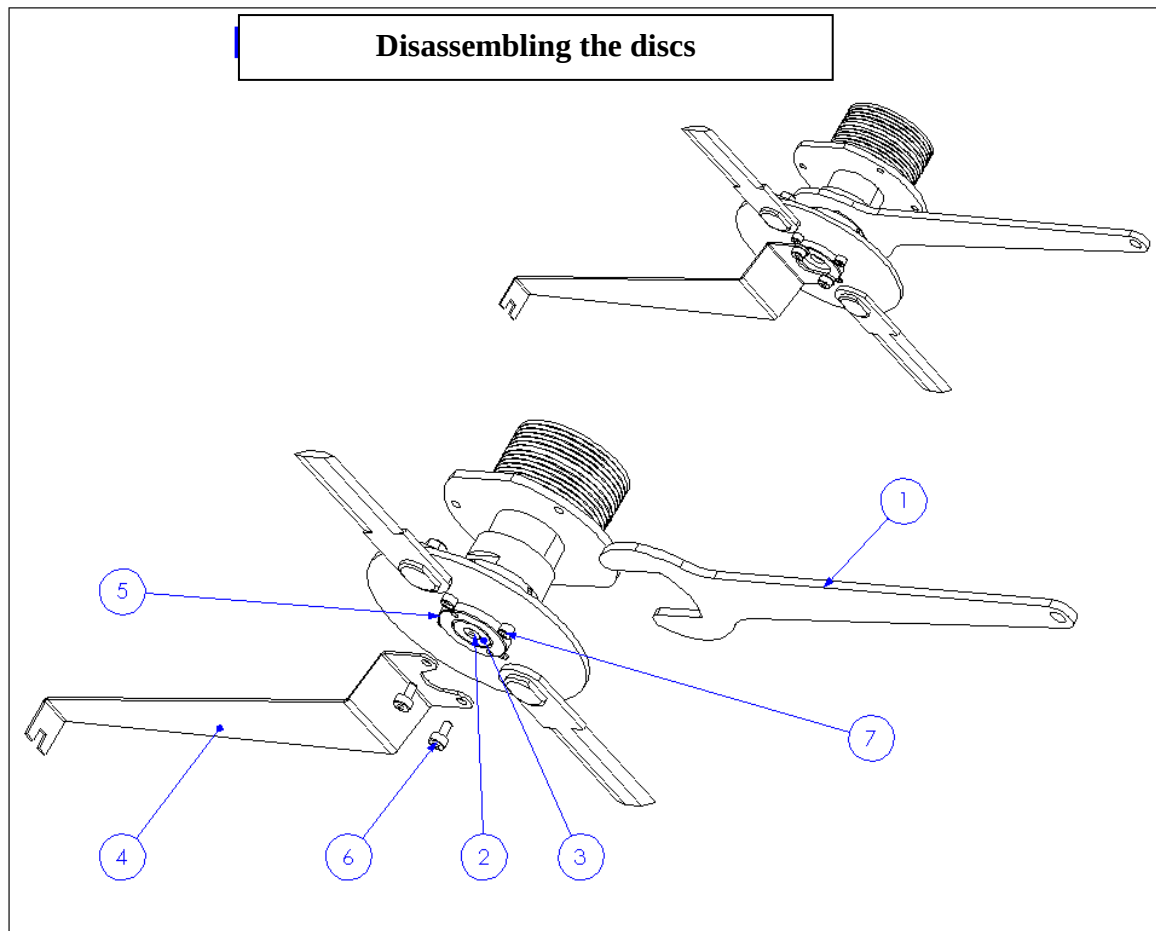
It is essential to replace the knife attaching bolts each time knives are replaced

13-5/ Tools

REFERENCE	DESIGNATION	ITEM
21.886.005	Straight lubricator M8x125	
30.510.222	Holding wrench	1
TH.440.918	tightening wrench	4
21.075.700	Allen screw 8x16	6
30.700.751	Allen key 8	
30.700.752	Allen key 6	
21.065.940	Hex head screw 12x20	

Procedure for removing discs

- Fit the holding wrench (*item 1*) in the slots of the backing flange
- Remove the safety screw (*item 2*) and safety washer (*item 3*)
- Attach the tightening wrench (*item 4*) to the tightening nut (*item 5*) with the 2 attaching screws (*item 6*)
- Unscrew the tightening nut
- Undo the disc attaching screws (*item 7*)
- Remove the disc



13-6/ Parts list, kit front spoiler edge cutter

Rep.	REFERENCE			DESIGNATION
	3500 Synchronous	4500 Synchronous	5500 Synchronous	
1				Synchronise edge cutter
2	Please refer to the part 10-1/ of the notice			Square support tube
3	FB.002.200.02			Button shoe
4	FB.002.210.02			Upper Shoe
5	FB.002.350	FB.002.300.02	FB.5500.300	Front Spoiler
6	FB.001.A03			Bending Torsion spring right
7	FB.001.A04			Bending Torsion spring left
8	Please refer to the part 10-1/ of the notice			Rear protective casing
9	21.036.529			Contact washer 8x22
10	21.075.702			Screw CHC 8x25
11	21.075.700			Screw CHC 8x16

