

FALCIATRICE A DISCHI

**ROTARY MOWER
FAUCHEUSE A
DISQUES
SEGADORA DE DISCOS
SCHEIBENMÄHER**

2040 - 2050

2060 - 2070

CE



COD. 014989 ed.1-2003



Prima di iniziare ad operare, leggere attentamente le istruzioni per l'uso

Read these operating instructions carefully before using the machine.

Avant de commencer le travail, lisez attentivement les consignes d'utilisation

Antes de empezar a operar con la máquina, leer atentamente las instrucciones para el empleo

Bevor Sie mit der Arbeit beginnen, lesen Sie diese Betriebsanleitungen aufmerksam durch

I Istruzioni per l'uso e manutenzione

GB Operating and Maintenance Manual

F Manuel d'utilisation et d'entretien

E Instrucciones de empleo y mantenimiento

D Betriebs- und Wartungsanleitung

ITALIANO	Pagina	5
ENGLISH	Page	26
FRANÇAIS	Page	47
ESPAÑOL	Página	68
DEUTSCH	Seite	89

Dati riportati nella targhetta di identificazione della macchina
Data shown on the machine identification plate
Données figurant sur la plaque d'identification de la machine
Datos expuestos en la placa de identificación de la máquina
Daten, die auf dem Typenschild Ihrer Maschine stehen

Modello della macchina:
Machine model:
 Modèle de machine:
Modelo de la máquina:
 Modell der Maschine:

Anno di costruzione:
Year of fabrication:
 Année de fabrication:
Año de fabricación:
 Baujahr:

Numero di matricola:
Serial number:
 Numéro de série:
Número de matrícula:
 Seriennummer:

Data di consegna della macchina:
Date of delivery:
 Date de livraison de la machine:
Fecha de entrega de la máquina:
 Auslieferdatum der Maschine:

Concessionario di zona:
Dealer:
 Concessionnaire:
Concesionario de zona:
 Bezirks-Vertragshändler:

Officina autorizzata dalla nostra Ditta a cui rivolgersi per eventuali interventi di assistenza
Technical assistance centre authorised by our Company to be contacted for all technical assistance needs
 Atelier de réparation agréé par notre Société
Taller autorizado por la nuestra empresa a contactar para eventuales intervenciones de asistencia.
 Vertragswerkstätte unserer Firma, die für die Ausführung der Servicearbeiten zuständig ist



ENGLISH

TABLE OF CONTENTS

SECTION 1: General information	24	3.2.1 Hydraulic connections	34
1.1 Information about the manual	24	3.2.2 Driveline assembly	35
1.2 Information about the machine	25	3.3 Transport on the roads	36
1.2.1 Machine identification	25	3.3.1 Transport position	36
1.2.2 Proper uses	25	3.4 How to check the lifting capacity and stability of the tractor	37
1.2.3 Precautions	25	3.5 Adjustment	37
1.2.4 Identification of the main components	25	SECTION 4: Operation	38
1.3 Technical specifications	26	4.1 Work position	38
1.3.1 Technical specifications	27	4.2 During work	39
1.3.2 Tractor requirements	27	4.3 Difficult work conditions	39
1.3.3 Packaging for shipment	27	4.4 Safety release	39
1.4 Noise level	27	SECTION 5: Maintenance	40
1.5 Packing and transport for delivery	27	5.1 Belt conditions	40
1.6 Storage	28	5.2 Discs and knives	41
1.7 Demolition and scrapping	28	5.3 How to top up the lubricating oil	42
SECTION 2: Safety notes	29	5.4 How to grease the mechanical components	42
2.1 Safety regulations and accident prevention	29	5.5 Storage	43
2.2 Symbols used	31	5.6 Check-control troubleshooting	43
2.3 Position of safety decals on machine	32	SECTION 6: Warranty	44
SECTION 3: Installation and operation	33	6.1 Warranty period	44
3.1 Safety regulations when hitching to the tractor	33	6.2 Warranty conditions	44
3.2 Coupling to the tractor's 3-point hitch	34	SECTION 7: Spare parts	44

SECTION 1

General information

1.1 INFORMATION ABOUT THE MANUAL

This manual contains all the information and indications considered necessary to enable the user to know, correctly use and normally service “**Mower 2040, 2050, 2060, 2070**” (also called machine in the text) manufactured by our Company, also called Manufacturer in the text.

Along with the declaration of conformity, this manual must be considered an integral part of the machine supplied by the Manufacturer and must accompany it throughout its working life until the time it is demolished.

If the manual is not consigned with the machine or is lost, a new copy must be ordered from the Manufacturer and will be provided within the shortest possible time.

This manual contains all the instructions required in order to use and service the machine. The correct operation of this latter and the length of time it lasts depend on good maintenance and care during use.

Remember to **carefully read this operation and maintenance manual** and to strictly comply with the instructions given before using, checking or operating with the machine in any way.

If the texts or tables are difficult to understand, or the drawings/diagrams are not sufficiently clear, please contact the Manufacturer where operating/servicing experts or the technical documentation staff will immediately give you all the explanations you need.

The Manufacturer is at the complete disposal of users, dealers and anyone else involved, with a view to providing active collaboration and help in understanding the entire manual.

Information and explanations about dangerous situations are given in the instructions provided in **SECTION 2 “Safety”**, in compliance with the current laws in merit.

This Manual has been compiled according to the standards in force at the time of printing. It is an integral part of the machine and must accompany this latter together with the Declaration of Conformity if the machine itself is sold.

Some of the illustrations in this manual depict parts or accessories that may differ from the ones on your machine. Some of the components could have been omitted from the illustrations to make them clearer.

The subjects discussed are those explicitly established by “Directive 98/37/EC” and by the relative technical standards.

The instructions in this manual are dedicated to the professional user who must possess specific knowledge about how to drive the tractor to which the machine is hitched and who must be authorized and appropriately trained.

The technical information in this manual is the property of the Manufacturer and is of a confidential nature.

Only use genuine spare parts and accessories. Besides voiding the warranty, use of spurious spare parts can represent a danger hazard as well as reducing the life and performances of the machine.

1.2 INFORMATION ABOUT THE MACHINE

The Manufacturer chooses the materials used to produce the machine to suit the specific use for which this latter has been designed and built: substantially different uses can lead to damage to persons and property as well as preventing the machine from operating correctly.

Strict compliance with the conditions of use, repairs and maintenance as specified in this manual is an essential part of the envisaged use of the machine.

Use of the machine for purposes other than those for which it has been designed and which are not indicated in this manual relieves the Manufacturer from all direct or indirect liability in merit.

Arbitrary modifications to this machine relieve the Manufacturer from all liability for damage or injuries of even a serious nature, to operators, third parties and property.

Correct use of the machine, strict compliance with the instructions given in this manual and application of all the precautions required to prevent danger situations will help you to avoid accidents and injuries, will allow the machine to operate better and for a longer time and will reduce breakdowns to the minimum.

The Manufacturer declines all and every objective and subjective liability deriving from failure to apply and comply with the regulations indicated in the manual.

1.2.1 MACHINE IDENTIFICATION

Each machine is provided with an identification plate (1 fig. 1) bearing the following data:

- **Manufacturer's name and address;**
- **"CE" marking;**
- **A) Serial number;**
- **B) Weight of the machine.**
- **C) Type of machine.**
- **D) Year of manufacturer.**

The data on the identification plate of the machine should be copied into the last page of this manual and must always be stated when spare parts and/or assistance are required.

The standard machine is supplied with:

- Operation and maintenance manual for the machine;
- "CE" declaration of conformity.

1.2.2 PROPER USES

The machine described in this manual has been designed built and protected to be solely used in agriculture for mowing the grass of stable lawns and meadows, as well as alfalfa and other forage crops.

The machine is hitched to the tractor by means of the **three-point hitch** and moves over the ground thanks to the turning discs that support the blades operated by the power take-off of the tractor.

The machine consists of a structure whose working component is formed by a bar that supports the discs to which the fast spinning knives are connected.

The crops are therefore cut owing to the effect of the kinetic energy of the knives against the base part of the stems that opposes greater flexural strength.

The machine is not suitable for use in sectors other than that of agriculture.



WARNING

The machine must be used by one single operator. Use differing from the one specified above is considered improper.

This machine is usually used during the day. The tractor's lighting system must be used if, in exceptional situations, the machine must be used at night or when the visibility is poor.

1.2.3 PRECAUTIONS

Take the following precautions before working with the machine:

- make sure that there are no large stones or pebbles in the soil where the work is to be carried out (diameter larger than approx. 10 - 15 cm / 3.93 - 5.9 inches);
 - make sure that there are no tree stubs on the ground that project more than approx. 10 cm / 3.93 inches and with diameters of more than approx. 10 - 15 cm / 3.93 - 5.9 inches;
 - make sure that there are no metal objects of any type on the ground, particularly netting, cables, ropes, chains, pipes, etc.;
 - carefully apply and comply with the instructions concerning the adjustment of the height of the machine from ground level. make sure that there are no bystanders within the range of action of the machine and up to 50 meters / 1968 inches away;
 - never work close to the ground when the soil is wet or the crop could be damaged. Such action would also impair the efficiency and balance of the machine.
- In these cases the knives become excessively worn and there is a notable power draw from the engine.
- Lengthy jobs close to the ground tend to harden the soil, worsening its characteristics and spoiling it for future crops.

1.2.4 IDENTIFICATION OF THE MAIN COMPONENTS (FIG.1)

- 1 Machine identification plate
- 2 Three-point hitch
- 3 Lift link hitch
- 4 Driveline support
- 5 Hydraulic pipe support
- 6 Protective cover frame
- 7 Protective cover
- 8 Transmission belt casing
- 9 Hydraulic cylinder
- 10 Stabilizer stand
- 11 Knife discs
- 12 External shroud
- 13 Reinforcing bar (5-6-7 discs)
- 14 External shroud disc
- 15 Adjustment spring 1
- 16 Adjustment spring 2
- 17 Frame locking hook

- 18 Overdrive
- 19 Safety release
- 20 Safety chain
- 21 Power take-off + protective cowling
- 22 3-point hitch Tiller – Mounting frame
- 23 Crossbar
- 24 Shield bar
- 25 Side lock for mechanical shields

1.3 TECHNICAL SPECIFICATIONS

The MOWERS are available in four versions (*models 2040, 2050, 2060, 2070*), with different power, weight and dimensional specifications (see **chapters 1.3.1, 1.3.2 and 1.3.3**).

The machines have been designed and built with an eye to high quality and reliability, in full compliance with the

standards in force and with accident prevention a prime concern.

The machines have been designed to work in the heaviest duty conditions: see **chapters 1.2.2 and 1.2.3** for the precautions to take before using the machine.

The machine is equipped with a safety release that prevents breakage and damage caused by impact against large obstacles.

The ball joints allow the machine to turn through 30° and to automatically re-engage by reversing a short distance.

Standard supply includes the driveline with free wheel, the automatic release device, two sets of knives (a long set and a short one) and a sprung suspension to reduce the load bearing on to the ground.

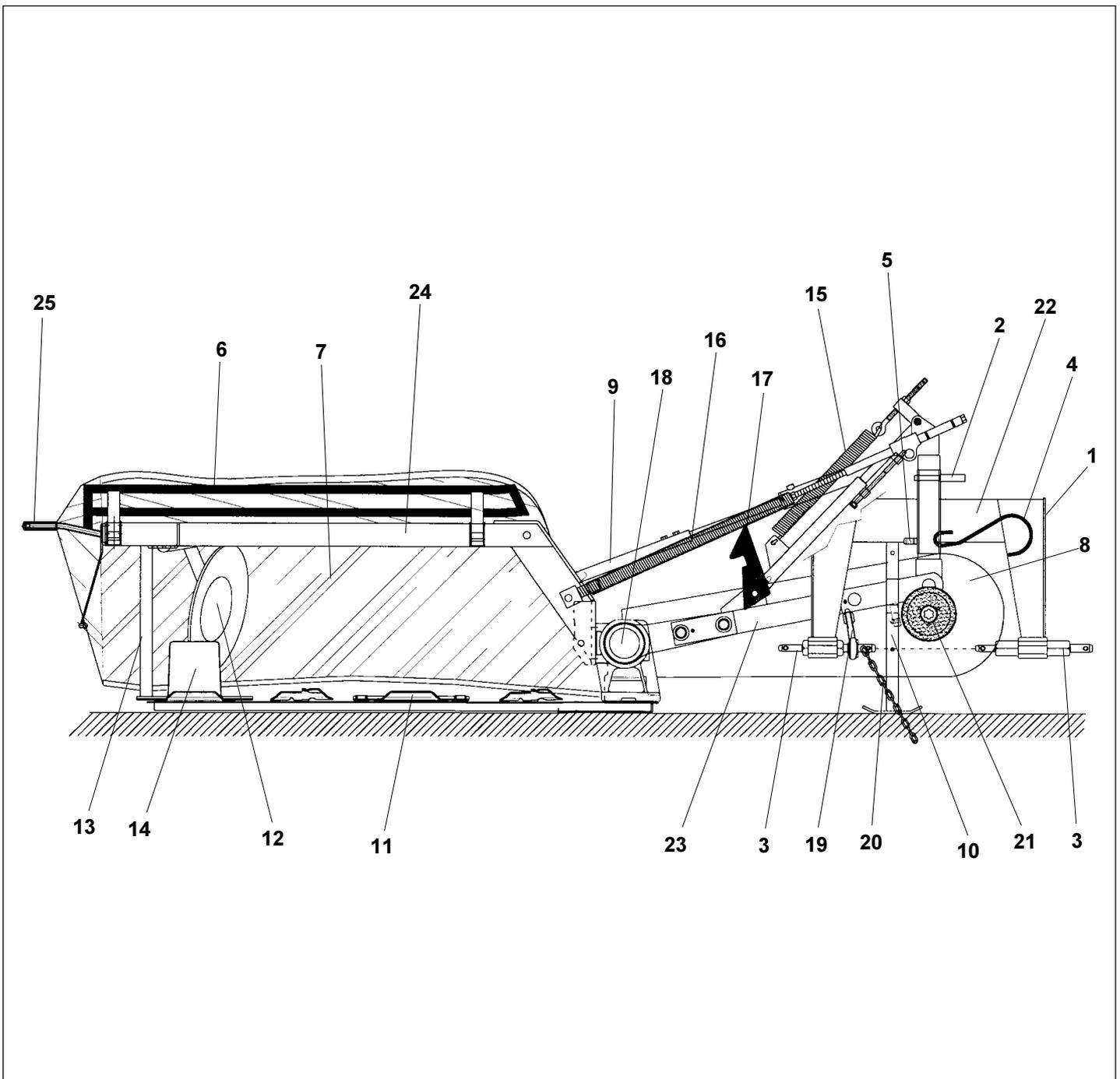


Fig. 1

1.3.1 TECHNICAL SPECIFICATIONS (FIG.2)

	2040	2050	2060	2070
3-point hitch.....class	I - II	I - II	I - II	I - II
Number of disks.....n°	4	5	6	7
Number of tines for disk.....n°	2	2	2	2
Disk rotation speed				
for PTO=540..... rpm	3080	3080	3080	3080
Minimum power rating.....kW-HP	26 - 35	30 - 40	34 - 46	38 - 52
(A)-Working width.....mm-inch	1650 - 64,96	2100 - 80,70	2400 - 94,48	2800 - 110,23
(D)-Transporting width.....mm-inch	1350 - 53,14	1350 - 53,14	1350 - 53,14	1350 - 53,14
(B)-Machine width.....mm-inch	3490 - 137,40	3890 - 153,15	4290 - 168,89	4690 - 184,64
(C)-Machine lenght.....mm-inch	1250 - 49,21	1250 - 49,21	1250 - 49,21	1250 - 49,21
(E)-Machine height.....mm-inch	1390 - 54,72	1390 - 54,72	1390 - 54,72	1390 - 54,72
Total weight (*)..... kg	465	505	545	585

(*) excluding cardan shaft.

1.3.2 TRACTOR REQUIREMENTS

PTO..... rpm	540
Minimum power rating.....kW-HP	da 26-35 a 38-52 according to model
Maximum pressure hydraulic system..... bar	160
Single-acting spool valve.....n°	1

1.3.3 PACKAGING FOR SHIPMENT

The weights of the rectangular shaped packages standard / on pallet and the dimensions are listed below:

Package	(*)Weight (kg)	Length (mm)/(inch)	Width (mm)/(inch)	Height (mm)/(inch)
n°1 mower with 4 disks	515 / 525	2500 / 98.42	740 / 29.13	740 / 29.13
n°1 mower with 5 disks	550 / 560	2500 / 98.42	740 / 29.13	740 / 29.13
n°1 mower with 6 disks	595 / 605	2650 / 104.3	740 / 29.13	740 / 29.13
n°1 mower with 7 disks	650 / 660	3050 / 120.0	740 / 29.13	740 / 29.13

(*) overall weight of the pack including the cardan shaft.

1.4 NOISE LEVEL

The noise level issued by the machine is checked for all models.

In view of the measurements taken in the various positions examined, the operator must use individual protective equipment to safeguard the hearing.



WARNING

It is obligatory to use individual protective equipment to safeguard the hearing.

However, there are other factors that can influence the level of sound exposure, such as the characteristics of the place of work, the length of exposure and the presence of other sources of noise.

The information about the level of noise issued by the machine will help the user or employer to evaluate the relative risks and dangers.

Noise level: dB(A) 87

1.5 PACKING AND TRANSPORT FOR DELIVERY

To facilitate shipment and reduce transport costs, the machines are supplied by the Manufacturer PARTIALLY DEMOUNTED in packages crates.

If the machine must be transported over a long distance, it may be loaded on a truck or railway freight wagon.



WARNING

Use a crane or lift trucks of an adequate carrying capacity to lift and handle the packed machine, in compliance with the common safety norms.

Consult **chapter 1.3.3** for the weights and dimensions table.

1.6 STORAGE

If the machine is to remain idle for a long period of time, it must be stored in a sheltered place, protected against adverse weather conditions and covered to prevent dust from building up.

Before it is stored, it is advisable to thoroughly clean all parts of the machine and to adequately lubricate all the mechanical components to protect them from rust.

- Pull out the bearing stand and set it in position;
- thoroughly wash the machine;
- generally inspect the machine to see whether there is any structural damage or deep abrasions in the paintwork. Make sure that all the safety decals are applied in their original positions, that they are undamaged and legible;
- have any breakage, abrasions or damage repaired. Any damaged decals should be immediately replaced;
- replace any broken or damaged protective covers with genuine spares;
- grease all mechanical parts, the fastening pins and the driveline coupling head (see **SECTION 5 "Maintenance"**);

- if possible, store the machine in a sheltered place and rest it on wooden planks to keep it stable;

-cover the machine with a tarpaulin tied in place.

Recovered used oil must not be thrown away indiscriminately. According to the current laws, it is classified as special waste and as such, must be taken to special disposal centers.

Contact your nearest authority.

1.7 DEMOLITION AND SCRAPPING

If the machine is scrapped, it must be disposed of in an authorized dump. Comply with the local laws in merit.

- Recover any used oil and take it to an authorized center for disposal.

- Separate the plastic or rubber parts and the electrical and electronic materials before the machine is scrapped.

- The parts consisting solely of plastic, aluminium and steel can be recycled if taken to the appropriate disposal centers.

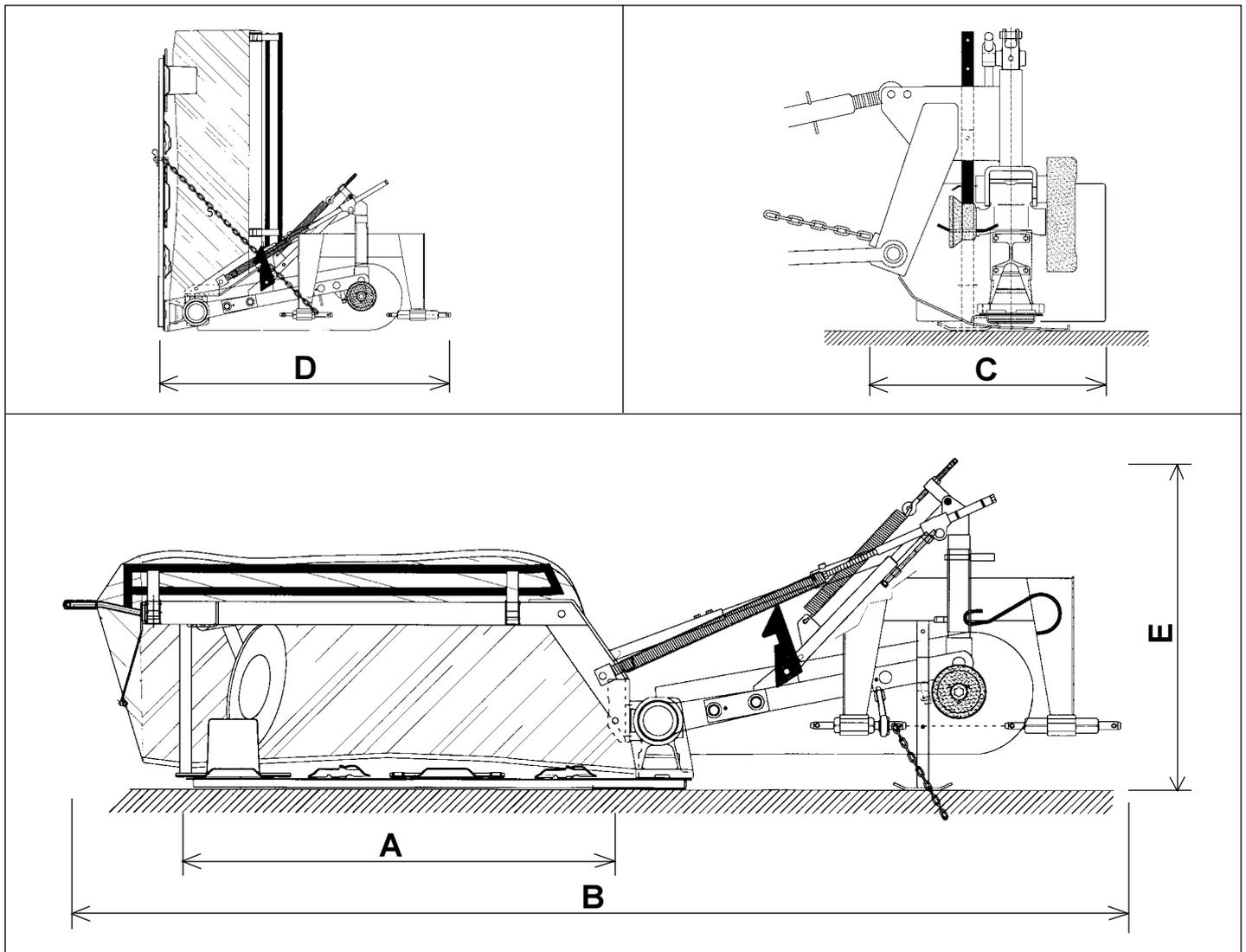


Fig. 2

SECTION 2

Safety notes



WARNING

THE FOLLOWING PRESCRIPTIONS ARE FOR YOUR SAFETY: THEY MUST THEREFORE BE READ CAREFULLY, MEMORIZED AND APPLIED EVERY TIME YOU USE THE MACHINE.

Use the machine, carry out the periodical inspections and maintenance operations in compliance with the current safety laws.

Failure to comply with the basic safety standards or to take the necessary precautions could lead to accidents when the machine is operated, serviced or repaired.

The machine has been designed and built to solely mow lawns, meadows and undergrowth. All other uses must be explicitly authorized by the Manufacturer in writing.

The Manufacturer is not liable for modifications to the machine that have not been authorized in writing by the Manufacturer itself.



WARNING

The Manufacturer declines all liability for damage caused by inadequate or improper use of the machine.

The machine must only be used by authorized, trained persons who are familiar with its operation and the relative dangers.

Contact the Manufacturer's technicians if in doubt.



CAUTION

Carefully comply with all the instructions given below.

2.1 SAFETY REGULATIONS AND ACCIDENT PREVENTION



CAUTION

Carefully check the machine before starting it up each time.

The Manufacturer cannot foresee all possible situations that could represent a potential danger. The recommendations in this manual and on the machine are not, therefore, exhaustive.

- It is essential for the operator to comply with all the instructions in this manual, as well as all the safety and accident prevention regulations of a general character.

- Do not operate the machine or carry out servicing work until you have read and understood the instructions.

- The decals affixed to the machine provide important indications: your safety depends on compliance with these instructions.

- Make sure that all the safety decals are legible. If necessary, clean them or replace them with new decals.



WARNING

The Manufacturer declines all liability if the **safety decals** supplied with the machine are missing, illegible or have been moved from their original positions.

If a decal is missing or damaged, a new one must be ordered. State the identification data of your machine as indicated on the identification plate when ordering new decals.



WARNING

Make sure that you are familiar with all the devices and functions and read this manual carefully before beginning to use the machine.

- Before using the machine, make sure that all the safety devices are in their correct positions and in a good condition. The protections must be immediately replaced if they are damaged.

In particular, regularly check the protective cover. The cover must be immediately replaced if it has been damaged in any way.

The safety devices of the machine, such as the cover and protections, are installed in order to prevent objects from being thrown up. It is therefore forbidden to approach this danger zone.



WARNING

Apply the parking brake, turn off the engine and remove the ignition key from the dashboard before you get off the tractor and before proceeding with any maintenance work.



WARNING

Make sure that there are no bystanders or animals within 50 meters of the machine before this is used. All bystanders must therefore move out of the area. Even more care must be taken when you work near roads or public places. Affix signs to warn of the danger.

- This manual must always be kept ready to hand so that it can be consulted when needed during work.

Order a replacement copy from the Manufacturer if it is lost or damaged.

- The machine must only be used by authorized, trained persons who possess a valid driving license.

- The machine has been designed for use by one single operator.

- Never work with the machine if you are tired, ill, or under the influence of alcohol, drugs or medicines.

- The operator must not wear clothing that could become caught up in moving parts of the machine (sleeves without fastened cuffs, belts, necklaces, bracelets, rings).



When using, servicing, repairing, moving or storing the machine, the operator must wear safety footwear, safety gloves plus ear protection and a dust mask if necessary.

- During use, the machine may give rise to dust, especially if the soil is dry. You are advised to use a tractor with a cab fitted with filters in the ventilation system. Failing this, wear a dust mask or mask with filter to protect your respiratory tract.

- Always check the cutting tools (knives and discs) before using the machine.

Missing knives and worn discs must be immediately replaced.

Only use genuine spare parts. When a disc or knife is replaced, always check to make sure that the fastening components (bolts, screws and nuts) comply with the Manufacturer's instructions.

- Make sure that the machine has not been damaged during transport. Immediately notify the Manufacturer if damage is discovered.

- Clean all deposits from the machine (rubble, tools, various objects) as these could impair its operation or injure the operator.



DANGER

It is absolutely forbidden to climb on to the machine or ride on it whilst it is moving.

- Make sure that the driveline has been correctly engaged whenever the machine is hitched.

- The machine must only be unhitched from the tractor on flat and compact ground. Make sure that the machine is at a standstill and stable before proceeding (use a suitable stabilizer stand).

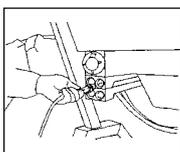


DANGER

Make sure that the driveline shields are undamaged.

- The shields must be immediately replaced if they are broken or damaged in any way.

CAUTION



Make sure that the hydraulic pipes have been correctly fitted, in compliance with the colour code that identifies them. Remember that if they are reversed, the movements they activate will be in the opposite direction to the ones controlled.

- Check the condition of the hydraulic pipes. They must be replaced if their condition has deteriorated (every 6 years at most).

- When the machine is not hitched to the power source, the hydraulic pipes and driveline must be fitted into their relative supports (4-5 fig. 1).



WARNING

Never ever get between the tractor and machine when the tractor engine is on and the power take-off is engaged.

WARNING

Make sure that the machine is at a complete standstill before moving near to it.



The user may only carry out the maintenance operations described in this manual.

- Modifications to the machine could lead to safety problems. In these cases, the user is the only person responsible for any accidents that may occur through such action.



Never tamper with, remove the protections and safety devices installed in the machine or render them ineffective.

They have been applied to safeguard the operator and others.



DANGER

When the machine is brought from the transport position to the work position and vice versa, you could be pinched or crushed by some of its parts. Take extra care when carrying out these manoeuvres and have all persons keep well clear of the danger zone.



Only use genuine spare parts supplied by the Manufacturer.

The Manufacturer declines all liability for:

- improper use of the machine, or use of the machine by untrained persons;
- seriously negligent maintenance;
- unauthorized modifications or interventions;
- use of spurious spare parts or parts that are not specifically designed for the model in question;
- total or partial failure to comply with the instructions;
- failure to comply with the safety regulations commonly applied in places of work;
- exceptional events.

2.2 SYMBOLS USED

The following symbols that appear in the manual have been used to call the operator's attention to potential dangers that may be present or that could occur, and to pertinent safety indications.

The following symbols used in the manual indicate danger or instructions that must be obligatorily complied with by the operator.



1. WARNING Before you use the machine, you must be familiar with all the devices, controls and functions. Read this manual carefully.



2. WARNING The adjustments and servicing operations must only be carried out with the machine at a standstill and the ignition key removed from the dashboard and after you have read the operation and maintenance manual.



3. WARNING – DANGER from fluids under pressure. Read the manual before beginning work. Consult a physician if you come into contact with harmful fluids.



4. WARNING Check the direction in which the tractor's PTO and its rate (540 rpm) before engaging the driveline.



5. WARNING – DANGER make sure that the machine is at a complete standstill before you move near it.



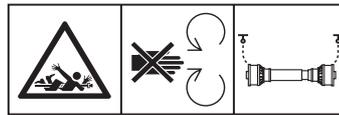
6. WARNING – DANGER of touching the knives. Keep your feet well away from the machine.



7. WARNING Material and/or objects could be thrown up. **Keep well away from the machine.** Keep at a safety distance of at least 50 m from the machine.



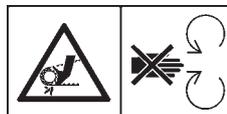
8. WARNING It is forbidden to climb on to the machine.



9. DANGER Danger of being caught up and dragged along. Keep your hands well clear of the transmission shaft whilst it is operating.



10. WARNING Do not get between the tractor and machine.



11. WARNING Do not remove or open the protective casings until the belts have come to a complete stop.



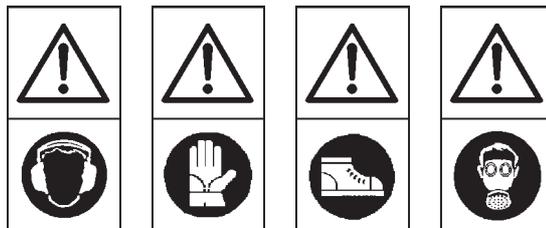
12. DANGER of crushing / cutting the hands. Keep at a safe distance away from the machine.



13. DANGER of being crushed by the mowing apparatus. Keep at a safe distance away from the machine.



14. WARNING Only lift and hitch the machine at the indicated points.



15. Use the required Personal Protective Equipment.



16. Greasing points chapter 5.4



2.3 POSITION OF SAFETY DECALCS ON MACHINE

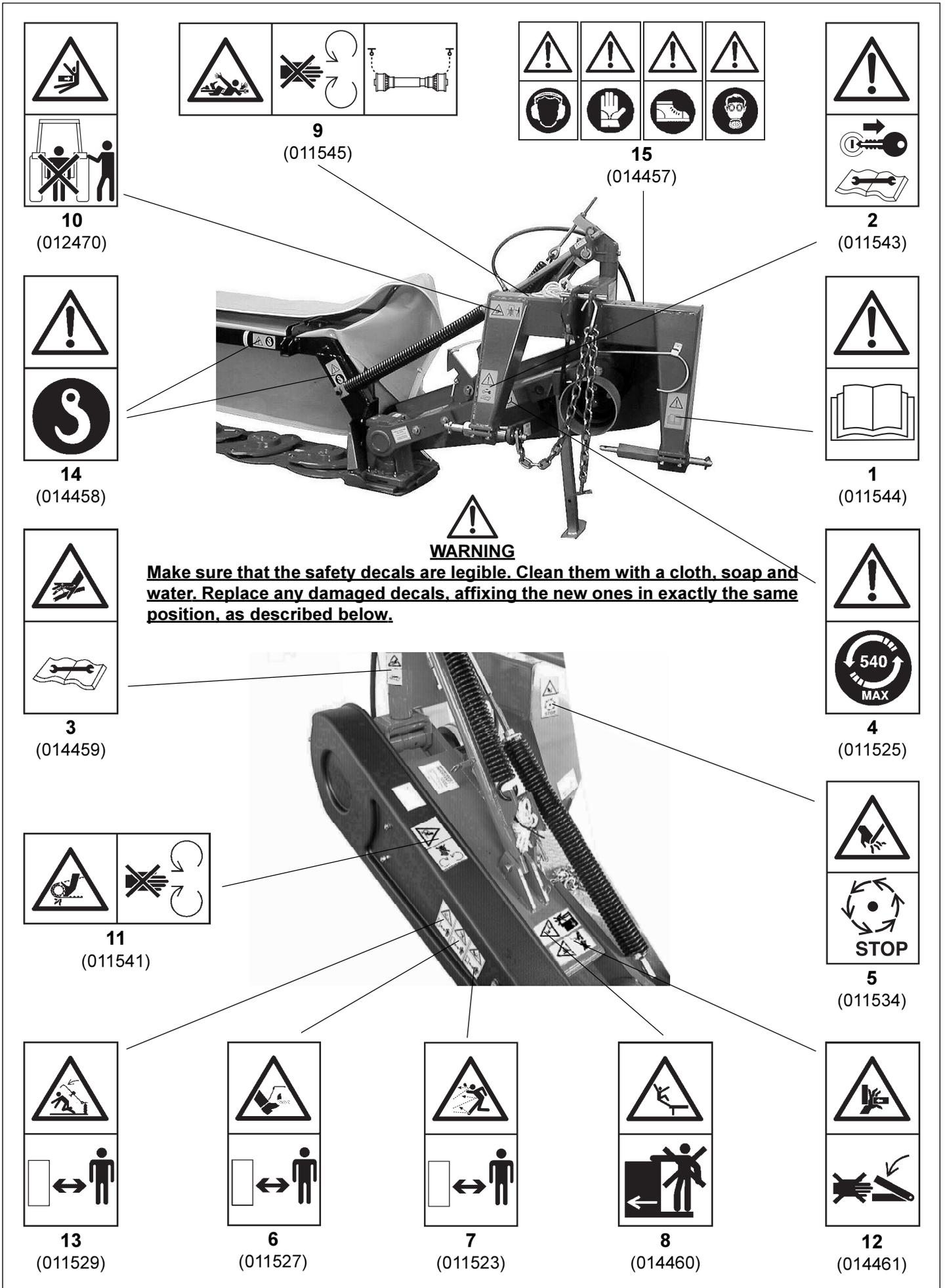


Fig. 3

SECTION 3

Installation and operation

First unpack the machine.

Assemble the parts supplied demounted, as described in the document **ENCLOSED** (with this manual) **“Assembly instructions”**.

Pay the utmost **ATTENTION** to the lifting, handling and transporting manoeuvres when the machine is being prepared.



The lifting, handling and transporting operations can be very dangerous unless they are carried out with the greatest attention: have all persons not involved in the actual work move away from the area and delimit the zone where the operations are to be carried out. Make sure that the available means are suitable. Do not touch hanging loads and keep at a safe distance away. The loads must not be raised more than 20 centimeters from the ground when transported.

Also make sure that the area in which the operations take place is clear and that there is a sufficient “escape route”, i.e. a free, safe zone to which the operators can quickly move if the load should fall.

WARNING



The safety hooks and ropes used to lift the machine must be of an adequate carrying capacity. They must be inserted into the points provided for lifting purpose, as indicated on the decals affixed to the machine.

Lift the machine with the utmost caution and move it slowly, without any sharp jolts.

There must be no one within the range of action of the lifting equipment, when the transporting operations are being carried out.

The machine can also be placed on a wooden pallet and tied to it. After this, it must only be transported by a lift truck.

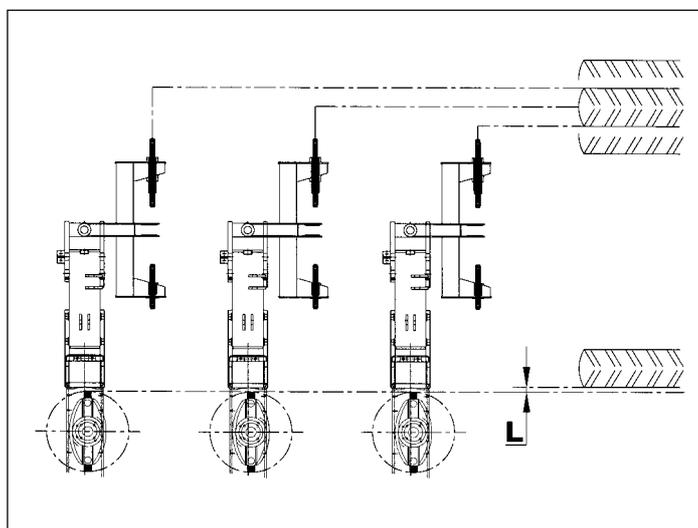


Fig. 4

It is advisable to have this operation done by qualified and specifically trained personnel (lift truck drivers, harnessing experts, etc.).

3.1 SAFETY REGULATIONS WHEN HITCHING TO THE TRACTOR



When the machine is used, serviced, repaired, transported on the roads or stored, the operator must wear safety footwear, safety gloves, ear protection, goggles and a dust mask to protect himself against the objects that may be thrown up or dropped by the machine as it operates.

Hitching the machine to the tractor could be dangerous. Take the utmost care throughout the entire operation.

The front axle of the tractor becomes lightened in relation to the weight applied the moment in which the machine is hitched:

the front axle load must be at least 20% of the empty weight of the tractor.

Before reversing with the tractor, make sure that the machine is in a stable and horizontal position.

Before you hitch the tractor to the three-point coupling, position the safety device of the tractor so that it cannot be lifted or lowered involuntarily or accidentally.

The tractor’s three-point hitch must match the machine or be adapted.

You could be injured in the link rod zone of the tractor’s rear power lift owing to the sharp points which could crush or cut. Only hitch and unhitch the machine on a compact, flat surface.

Do not use the external control to lift the implement. Lock the side stop of the linkage in the transport position.

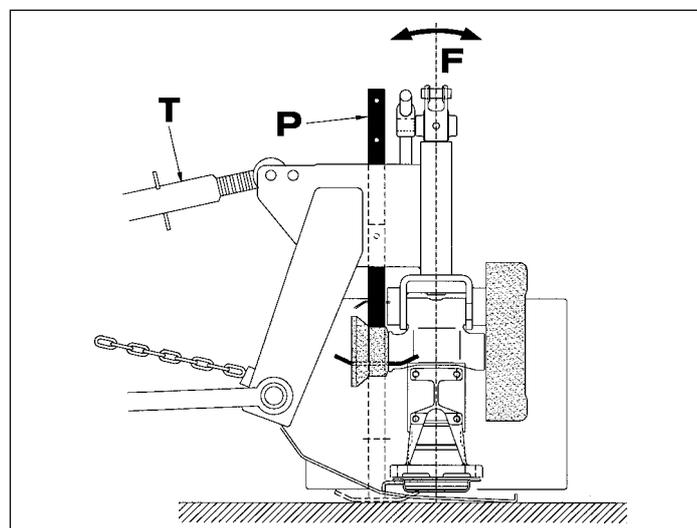


Fig. 5

3.2 COUPLING TO THE TRACTOR'S 3-POINT HITCH

The machine can be coupled to all types of tractor equipped with a universal three-point hitch. The pins of the 3-point hitch are mobile and can be adjusted for class 1 and 2.

Ensure that there is sufficient lighting in the work area if the visibility is poor and have all bystanders move at least 5 meters away from the hitching point.

Move near with the tractor until the power lift bars match the 3-point hitch of the machine, then couple the implement with the supplied pins.

The two ball ends must be set to the same height from the ground.

The machine can be adapted to tractors of different track widths. Make sure that distance **L** is about **100 – 150 mm / 3.93 - 5.9 inches** (fig. 4). If the hitch mounting frame needs to be moved, unscrew the 4 hex screws **M** on each link (fig. 6) and position the pins in the correct way.



WARNING
Insert and tighten the safety pins into the pin holes and make sure that they are well locked.

Connect the upper rod **T** of the tractor to the top third point of the tractor and adjust this correctly. The axis of fork **F** must be vertical to the ground (fig. 5).



WARNING
Insert and tighten the safety pins. Lock the safety device that prevents the third point from unscrewing.

Before hitching or unhitching the machine to/from the tractor's third point, make sure that the control lever position prevents the machine from being accidentally raised or lowered.

Push bearing stand **P** upwards and fix it in place with the pin and split pin (fig. 5).

Lift the machine a few centimeters from the ground and lock the side movement with the side rods of the power lift bars.



WARNING
Park the tractor on flat ground to prevent the side load exercised by the machine from bearing on the rods.

3.2.1 HYDRAULIC CONNECTIONS



WARNING
The circuit is under high pressure.

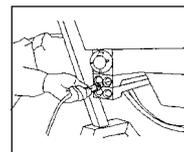
Before beginning any maintenance work on the hydraulic system, turn off the engine (if it is on), apply the hand brake, remove the ignition keys from the dashboard and lower the machine to the ground.

Make sure that all pressure has been relieved from the tractor's hydraulic circuit.

Connect the hydraulic pipes with quick couplings to the tractor after having checked to make sure that all the fittings are clean and in an excellent condition.

Inspect the hydraulic pipes regularly and replace any damaged or worn ones. These pipes must be replaced by competent technicians in compliance with the technical instructions given by the Manufacturer.

CAUTION



CAUTION
Make sure that the hydraulic pipes have been inserted properly and that their colour codes have been complied with. Remember that if they are reversed, the movements they activate will be in the opposite direction to the ones controlled (e.g. lifting-lowering).

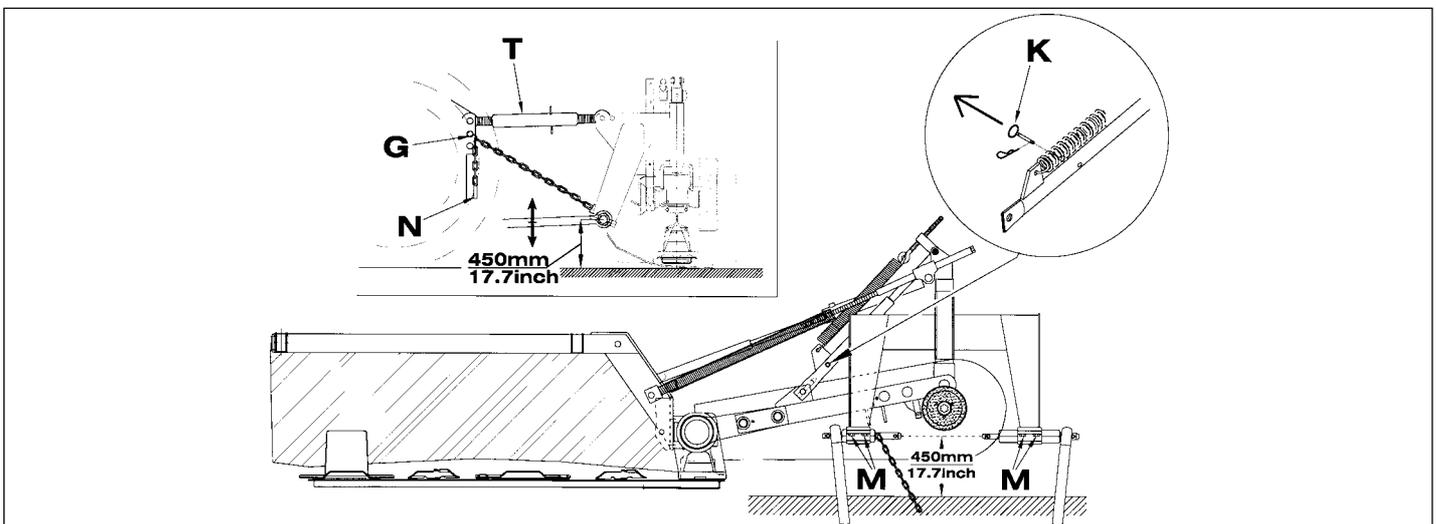


Fig. 6

Pressurize the hydraulic system, make sure that there are no leaks and that the connections have been correctly made. Leaking fluid (hydraulic oil) at high pressure can penetrate under the skin and cause serious damage. If this should happen, immediately seek medical assistance in order to prevent the risk of serious infection.



WARNING
The hydraulic cylinder is supplied without hydraulic oil. Fill the entire circuit with oil and carry out at least two manoeuvres “fully to the right-fully to the left” to make sure that the system has been connected correctly.

As soon as the mowing operations have terminated, the hydraulic pipes released from the tractor must be fixed in the supports provided for this purpose (5 fig. 1).

3.2.2 DRIVELINE ASSEMBLY

The telescopic driveline can be supplied by the Manufacturer along with the machine, depending on the technical matters established at the time of order.



The driveline is a mechanical component that can injure persons that get too near to it whilst it is operating. Take great care when working with this component.

Carefully read the driveline Operation and Maintenance Manual before using this component.

- After the machine has been connected to the tractor, connect the driveline to the tractor’s PTO (this must be done with the engine off and the ignition key removed from the dashboard).

- If the driveline supplied with the machine is not used, **make sure that the shields of the machine and tractor overlap the driveline guard by at least the distance established by the current laws in merit (5 cm / 2 inches).**

- Clean and lubricate the power take-off.

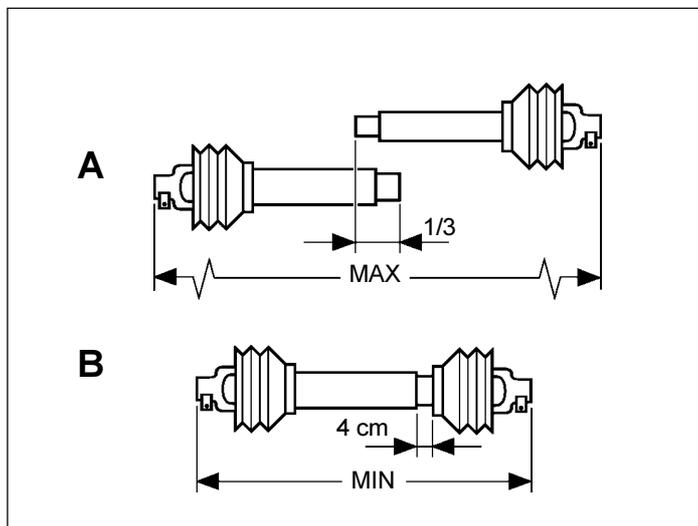


Fig. 8

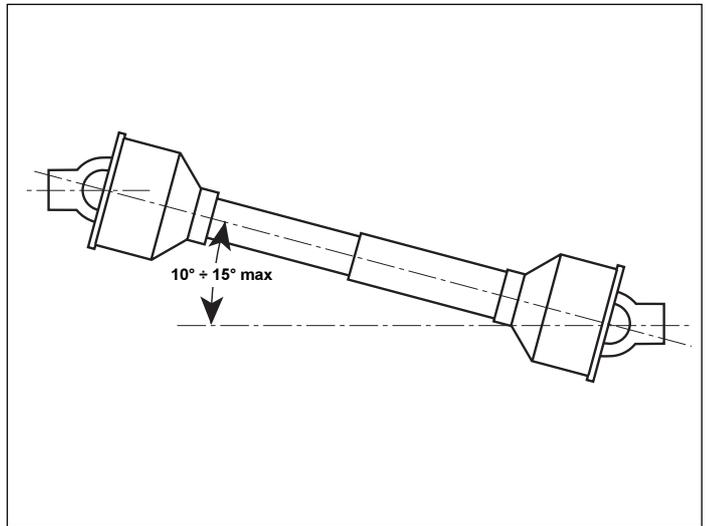


Fig. 7

- Periodically grease the driveline as indicated by the manufacturer (see the driveline Operation and Maintenance Manual).

- Bear in mind the direction in which the driveline is mounted. Comply with the assembly direction prescribed by the manufacturer and indicated on the outer tube covering of the shield (tractor symbol on the external tube of the driveline towards the PTO of the tractor itself).

- Connect the anti-rotation chains to the machine and tractor to prevent the shields from turning with the driveline.

- Make sure that the safety lock that prevents the driveline from extending (button, ring nut, etc.) is correctly inserted and locked in its housing.



CAUTION
Make sure that the PTO speed setting is 540 rpm since the machine is designed to operate at this speed.

Only use drivelines with CE marking to ensure that the machine is used correctly and safely.

Only use drivelines with undamaged shields.

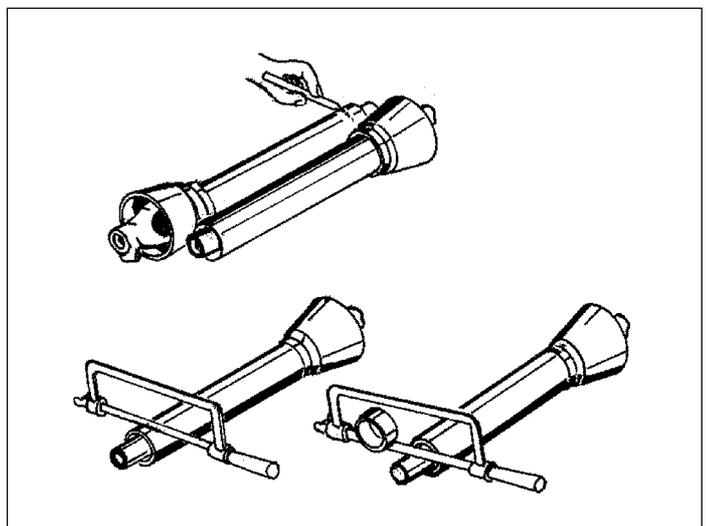


Fig. 9

The driveline must operate at the least possible angle. This will ensure that both the driveline and machine last as long as possible.

Always disengage the PTO when the driveline operates at an excessive angle (never more than 10-15 degrees - Fig. 7) and when it is not used.

The length of the driveline must suit the type of tractor used. When the driveline is fully extended in any operating condition, the telescopic tubes must overlap for at least 1/3rd of their length (A Fig. 8).

When fully inserted, the play must be at least 40 mm / 1.57 inches (B Fig. 8).

The driveline must be shortened if this is not possible:



Handle all parts with the utmost care. Never place your hands or fingers between one part and the other. Wear safety garments such as gloves, protective footwear and goggles.

This operation must be carried out with the utmost care as the driveline will have to be replaced if the telescopic shafts are shortened to an excessive extent.

- remove the two halves of the driveline.
- place the two parts of the driveline side by side and mark the portion of the shield that must be removed (if the driveline must be shortened by 40 mm / 1.57 inches, then 40 mm / 1.57 inches must be taken from each of the two telescopic tubes).
- use the two portions of cut shield as a reference so that the two telescopic shafts are shortened in an equal way.
- grind the edges of the tubes, eliminate any burrs and thoroughly grease the telescopic tubes.



The driveline shafts and/or their shields must not be modified in any other way.

Make sure that the driveline is suitable for transmitting the power required by the machine. Contact an Authorized Assistance Center if in doubt.

When the driveline is disengaged from the tractor's PTO, it must ALWAYS be placed on its support (4 fig. 1).



The driveline must always be connected to the tractor's PTO last and disconnected first, at the end of work.

The Manufacturer declines all liability for damage caused by an incorrectly fitted or used driveline.

3.3 TRANSPORT ON THE ROADS



Proceed in the following way if the machine must be transported on the roads:

Strictly comply with the Highway Code regulations. If the width of the machine projects beyond the width of the tractor, fit on signs to warn of the extra width or use a bar with rear indicator lights.

As well as complying with the Highway Code Regulations, remember that great care must also be taken of any special prescriptions indicated in the tractor's log book when driving on the roads. Choose an appropriate speed, especially with mounted implements that project to a considerable extent at the front or rear or when the road is crowded, winding or steep.

To avoid unbalancing, drive at a moderate speed, especially on irregular road surfaces or steep slopes.

The behaviour of the tractor on the road, its turning and braking capacities are influenced by the implements mounted.

When driving on to a road after work, check to make sure that the tyres and soil working tools are clean to prevent the road surface from being dirtied with soil or other material.

3.3.1 TRANSPORT POSITION

Comply with the following procedure to adapt the machine to the **transport position** (fig. 10) (beginning from the **work position** fig. 6):



Make sure that there are no bystanders within the range of action of the bar.

Fig. 6:

- Raise the machine from the ground with the tractor's hydraulic power lift.
- Stop the engine and remove the ignition key. Disengage the PTO.

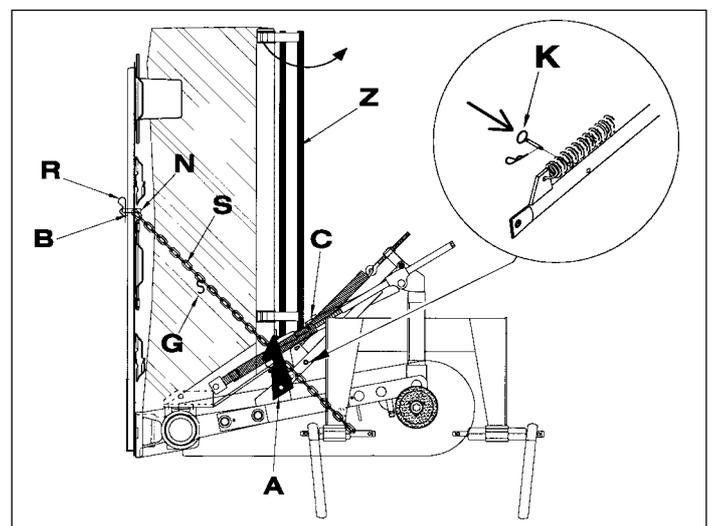


Fig. 10

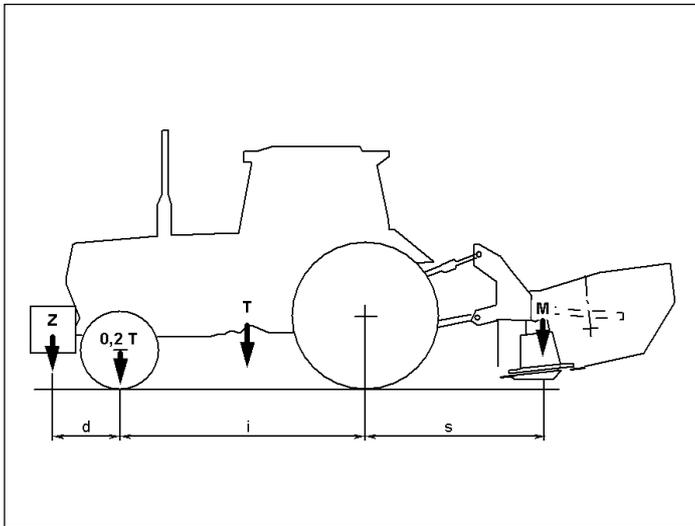


Fig. 11

3.4 HOW TO CHECK THE LIFTING CAPACITY AND STABILITY OF THE TRACTOR

Check the lifting capacity and stability of the tractor by means of the following formula. Apply ballast at the front if necessary.



CAUTION

It is obligatory to check the lifting capacity and stability of the tractor to prevent it from tipping up and/or losing wheel grip.

$$M X s < 0.2 T X i + Z (d + i)$$

$$M < 0.3 T$$

(fig.11):

- i** = tractor wheelbase
- d** = distance of the front axle from the ballast
- s** = rear axle overhang of the machine
- T** = weight of the tractor + 75 kg (operator)
- Z** = weight of the ballast
- M** = weight of the machine

3.5 ADJUSTMENT

Correct **adjustment of the work height** of the machine will allow you to work with excellent results. It also improves the efficiency of the machine-tractor complex, notably reducing the wear on the knives.



WARNING

Park the tractor on flat ground to prevent the side load of the machine from bearing on the rods. Stop the engine and apply the brakes before making the adjustments.

Adjust spring 1 by means of check nut C1 to lighten the bar on the inner side (X). Adjust spring 2 by unscrewing check nut C2 and using rod P (remember to lock check nut C2 once the adjustments have been made) so as to lighten the bar on the outer side (Y) fig.12.

- Get off the tractor and wait until all moving parts have come to a complete stop.

Fig.10:

- Fold the front part of the protective cover upwards, turning the front holder Z after having disengaged the side safety lock (25 fig. 1).
- Fit pin K into the crossbar return (remember to remove it when the machine is required for work).
- Get back on the tractor and close the mowing bar by operating the tractor's valve system, then hydraulic closing cylinder C until safety clip A has fastened.
- Chain S should be detached from its work position (fig. 6) and connected to the bar in point B using pin N and plug R, to ensure safety during transport.



WARNING

It is absolutely essential to fit the safety chain in position before transporting the machine on the roads.

During transport with the machine raised, always make sure that the control lever is locked to prevent the machine itself from accidentally lowering.

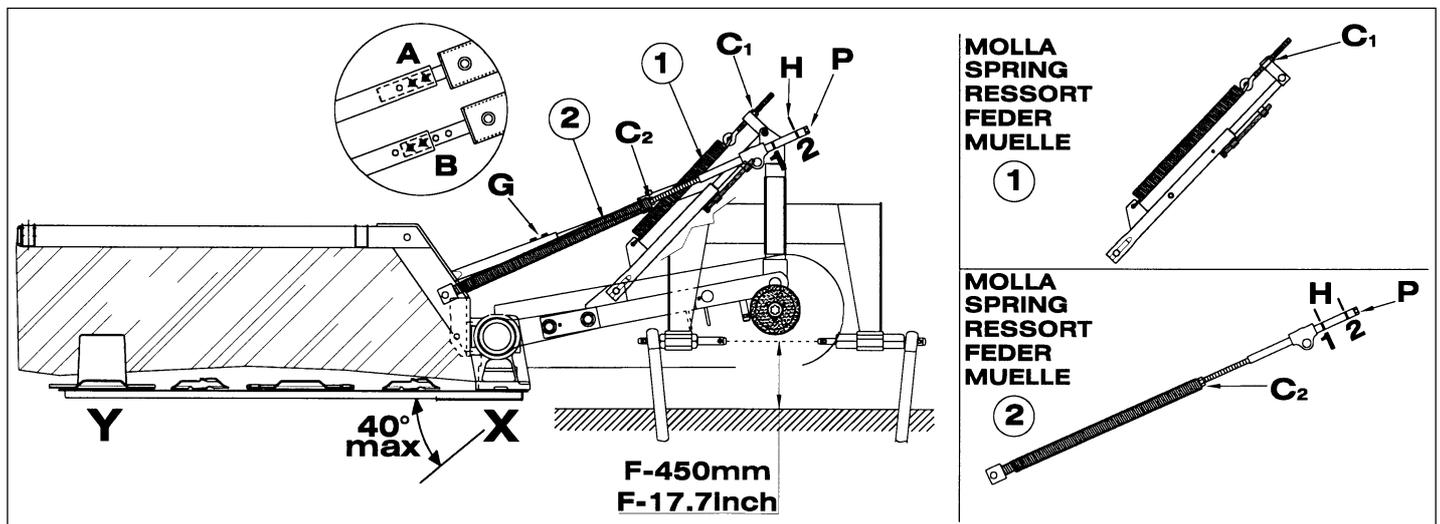


Fig. 12

The **cutting height** can be regulated by means of the tractor's third-point idler (fig. 14).

Adjust the outer **shroud** depending on the windrow (fig. 13).

Proceed in the following way to **mow with the bar tilted downwards** (max. 40°) (fig. 12):

- for 4 and 5 discs, slacken off rod **P** of spring **2** until the mowing bar slants to the required extent.
- for 6 and 7 discs, move pin **H** on rod **P** from position **1** to position **2** and then adjust the tension of spring **2**.
- Adjust the length of the cylinder by moving its fastener **G** along the extension, passing from position **A** to position **B**.

If you must work with the bar slanted (banks, ditches) for long periods of time, it is advisable to set it to the horizontal position after every half hour's work and to keep it there for a few minutes.

By and large, the quality of the work and the power required depend on:

- the type of product;
- the type of knives used;
- the cutting height;
- the ground speed of the tractor.

SECTION 4

Operation



DANGER

THE OPERATOR MUST BE SEATED IN THE DRIVING SEAT OF THE TRACTOR WHEN THE MACHINE IS WORKING SINCE ONLY FROM THAT POSITION IS HE ABLE TO ACT CORRECTLY. BEFORE HE LEAVES THE DRIVING SEAT, THE OPERATOR MUST STOP THE MACHINE, APPLY THE PARKING BRAKE AND TURN OFF THE TRACTOR ENGINE.

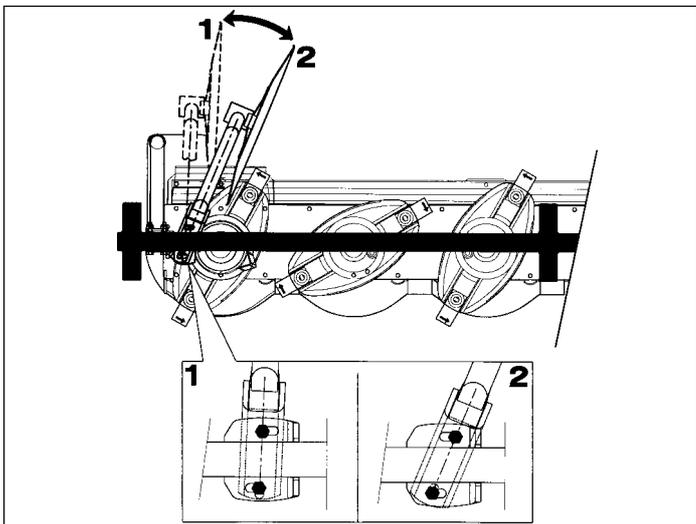


Fig. 13



Always use the appropriate Personal Protective Equipment (safety footwear, gloves, ear protection and dust mask).

Before using the machine, make sure that all the safety devices are in their correct positions and in a good condition. The protections must be immediately replaced if they are faulty or damaged. In particular, the protective cover must be checked regularly. It must be immediately replaced if it is damaged in any way.



WARNING

Make sure that there are no bystanders or animals within 50 meters of the machine before starting it up.



CAUTION

Before use, check the level of the oil in the transmission unit and top it up if necessary (see chapter 5.4).

Before beginning work, the machine must be adjusted in order to obtain an optimum position on the job (**SECTION 3 "Installation and operation"**).

Make sure that the knives are in a good condition.

4.1 WORK POSITION

Proceed in the following way to switch to the **work position** (fig. 6) (from the **transport position** fig. 10):



WARNING

Make sure that there are no bystanders within the range of action of the bar.

Fig.10:

- Detach pin **N** of safety chain **S** from the disc bar;
- From the tractor, release the safety clip **A** (with the relative rope), and lower the disc bar (with the hydraulic position) to the horizontal position.

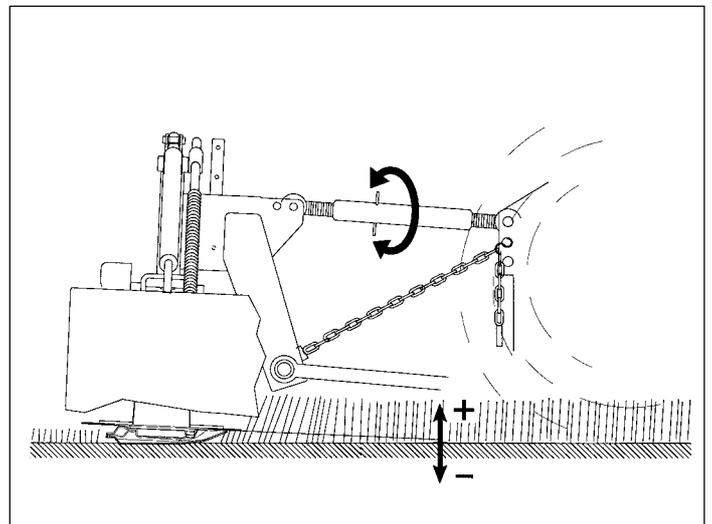


Fig. 14

Fig. 6:

- Remove pin **K**.
- Lower the machine using the tractor's power lift until an adequate work position has been reached (**450 mm / 17.7 inches**).
- Fix the adjuster chain alongside the tractor's third point using clip **G** positioned at an appropriate distance on the chain.
- Fold the front part of the protective cover downwards, turning front holder **Z** (fig.10) after having disengaged the safety side lock (25 fig. 1).
- Make sure that the driveline is engaged and the shield fixed with the chains.

4.2 DURING WORK



CAUTION

Make sure that the PTO speed setting is 540 rpm since the machine is designed to operate at this speed

Cover a short distance and check to make sure that a satisfactory job has been done. Check the adjustments made to the machine if this is not the case.



WARNING

Constantly check to make sure that there are no persons or animals within the range of action of the machine as stones and other sharp materials may be thrown up by the knives as they spin.

For the best possible result, it is advisable to proceed at a speed between 5 and 15 kph approx. adapting this to the conditions of the soil and the crop.



WARNING

Always check to make sure that the ground speed suits the conditions or work and that it can never be a potential source of danger.

Do not make sharp turns with the machine on the ground and do not work in reverse.

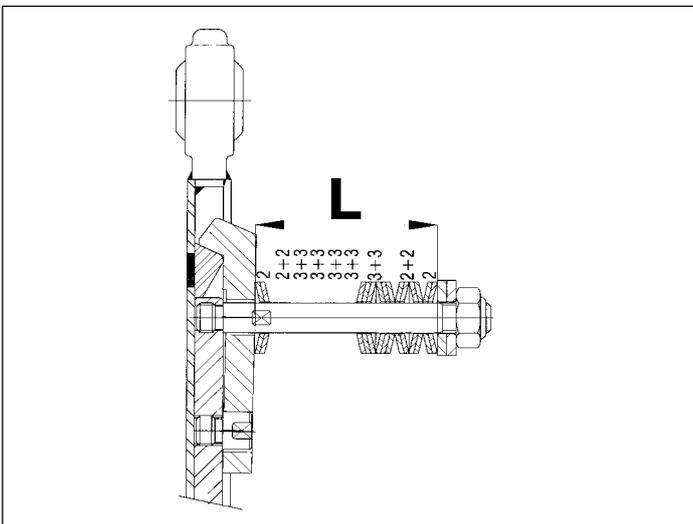


Fig. 15

Always lift the machine when changing direction and turning after first having disengaged the PTO.

WARNING



Apply the parking brake, turn off the engine, remove the ignition key from the dashboard and wait until all moving parts have come to a complete stop before getting off the tractor and before all adjustments and servicing work are carried out.

During use, the machine may give rise to dust, especially if the soil is dry. You are advised to use a tractor with a cab fitted with filters in the ventilation system. Failing this, wear a dust mask or mask with filter to protect your respiratory tract.

4.3 DIFFICULT WORK CONDITIONS



WARNING

Do not mow on stony ground. The protective cover must always be down to prevent objects from being thrown up. When the work conditions are particularly difficult or the ground is irregular, it is advisable to take the following precautions:

- Reduce the speed of the tractor,
- Make sure that the knives are free to turn.

4.4 SAFETY RELEASE

If the cutting components (disc) hit against an obstacle during work, the safety release immediately retracts the mowing bar and notably dampens the impact received.

Immediately stop the engine and disengage the PTO of the tractor. Reverse a few meters to fit the safety release back in place. To start the machine working again, make sure that the safety release has been regulated and that the cutting components have not been damaged in any way.

Keep the device in a perfectly efficient condition by lubricating it frequently and checking it to make sure that it operates correctly.

The spring must be adjusted to the following lengths (fig.15):

- bar with 4-5 discs L = 98 – 100 mm / 3.82 - 3.9 inches
- bar with 6-7 discs L = 95 – 97 mm / 3.75 - 3.8 inches

Length **L** must never be less than 95 mm / 3.75 inches.

SECTION 5

Maintenance

The recommended routine maintenance criteria illustrated are based on the Manufacturer's experience and advice and suggestions from the customers.

These criteria are not exhaustive and can be integrated, also with the collaboration of our customers who we thank in advance.

Good routine maintenance keeps running costs down and also allows you to get full use out of all the potential offered by the machine.

The frequencies given are those indicated by the Manufacturer for the most usual operating conditions. Substantially different situations may require the maintenance work to be carried out more or less frequently, depending on the specific case in question.

Each new machine must be checked **after the first 4 hours service**. Make sure that:

- the bolts are tightened correctly;
- the tension of all belts is correct;
- there are no leaks from any of the components of the hydraulic circuit;
- the transmission components are correctly lubricated.

Periodically and regularly repeat the following inspections which must also be obligatorily carried out **at the beginning of each season**:

- check/change the oil, lubricate/grease all necessary points, as described in the instructions;
- check the knives and relative fasteners for wear;
- make sure that the knives turn around themselves;
- check the protections for wear;
- correctly tension the belts;
- check to make sure that all bolts are well tightened.

Before beginning work in the field, make sure that the machine operates correctly and that there are no vibrations.

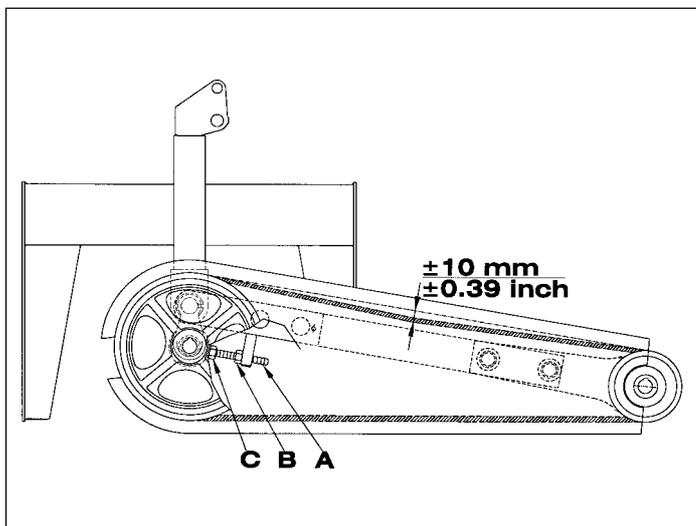


Fig. 16



CAUTION

If faults are discovered, the operator must immediately stop the PTO, remove the ignition key from the dashboard, get off the tractor, check how serious the fault is and then take the necessary action.



WARNING

The following operations must be carried out before any servicing work can begin:

- disengage the tractor's PTO;
- turn off the tractor engine, apply the hand brake and remove the ignition key from the dashboard;
- relieve the pressure from the hydraulic circuit;
- always use the appropriate Personal Protective Equipment (safety footwear, gloves, goggles);
- take all the accident preventing measures envisaged for the type of operation in question.

5.1 BELT CONDITIONS



WARNING

The belts gradually wear out and must all be replaced at the same time.

The belt tension must be checked regularly, particular after the first few hours of service. Proceed in the following way (fig.16):

- use idler **A** and loosen check nut **B**;
- tighten the belts by screwing head **C** of idler **A** until the belts give no more than **2 cm / 0.78 inches** in the central part.
- lock check nut **B** and fit the protective casings back in place.

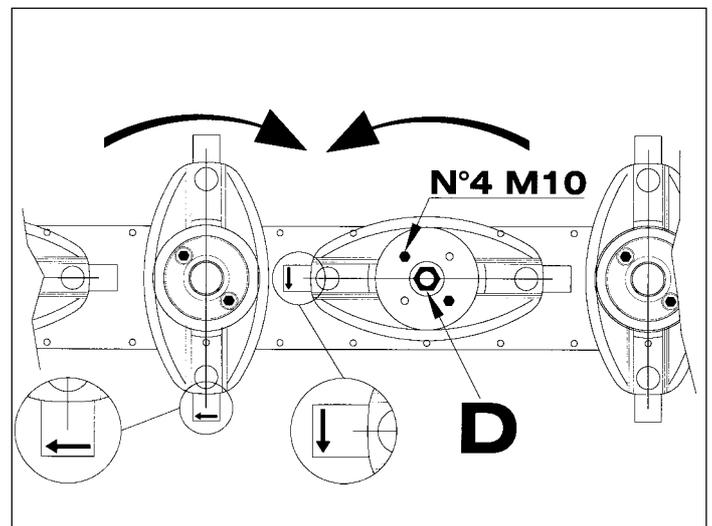


Fig. 17

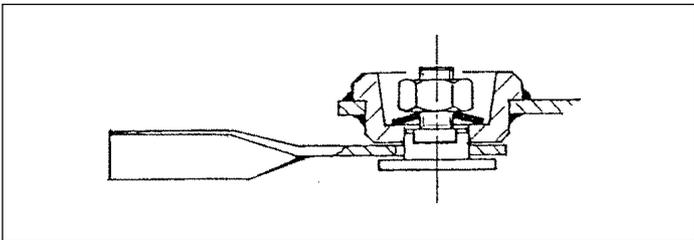


Fig. 18

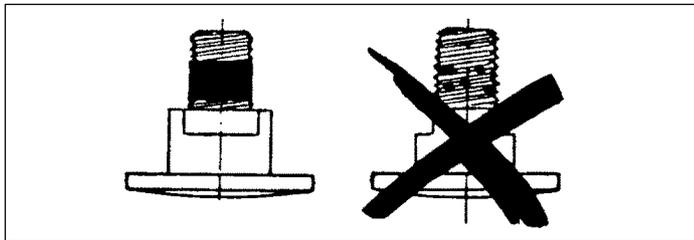


Fig. 22

5.2 DISCS AND KNIVES

Work on irregular ground can damage the knives to a greater extent (deformation and cracking), consequently increasing the risk of accidents, giving a poorer quality cut and with the risk of greater wear on the discs.

After the first time, the discs, knives and relative fastening components must be periodically checked after every 15-20 hours service. They must be checked more frequently if the ground where the mowing work is done is stony and always after hitting against an obstacle.

The oval discs are mounted on a support fixed by four M10 screws the tightness of which must be periodically checked. They must be positioned so that the greater axis of each is perpendicular to that of the adjacent disc (fig. 17).

The knives are fixed by means of a special self-locking screw and are locked by a spring washer and M10 nut. The concave part of the washer must point downwards and the nut must be tightened to a **7.5 kgm (75 Nm) torque value**, (fig. 18). Make sure that the disc **turns in the right direction!**

Worn knives must always be replaced or remounted on the same disc, using the 2nd cutting edge (if the wear is not excessive).

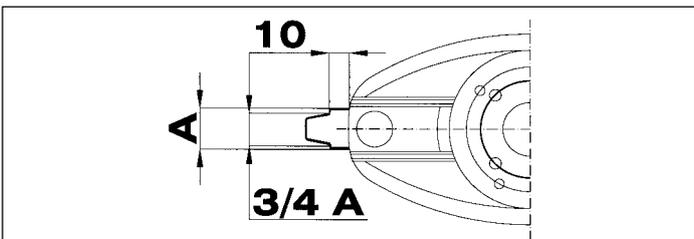


Fig. 19

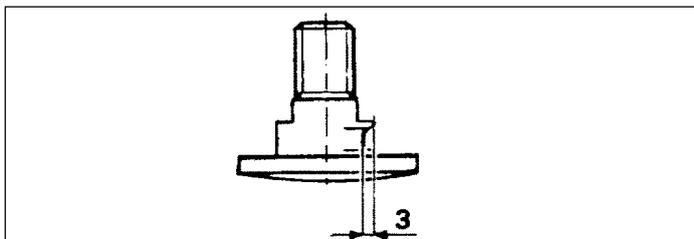


Fig. 23

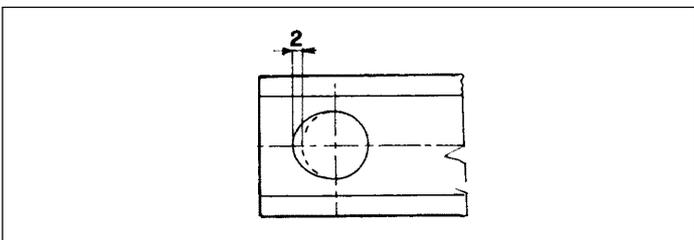


Fig. 20

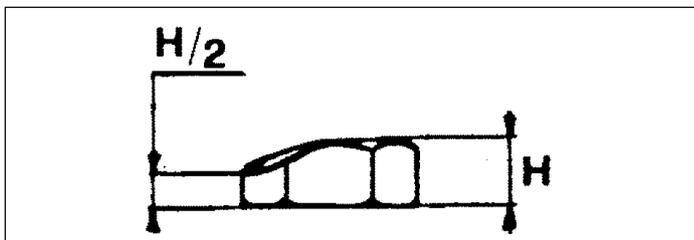


Fig. 24

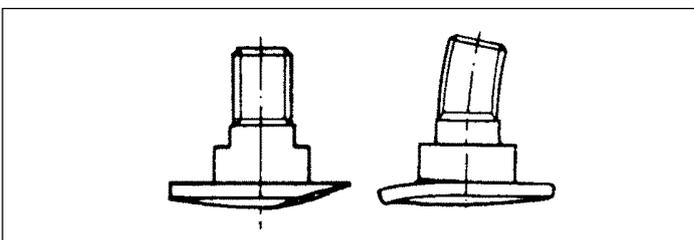


Fig. 21

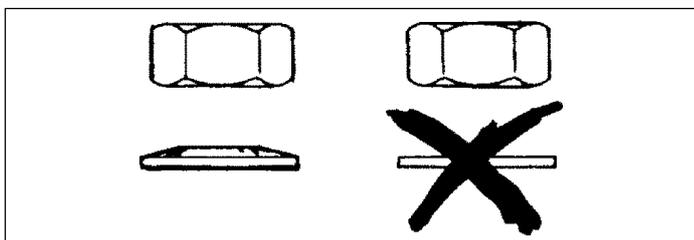


Fig. 25



WARNING

The knives must be replaced when:

- **they are worn:** if the width of the knife 10 mm / 0.39 inches - from the disc is $\frac{3}{4}$ of its original width (fig.19).
- **the hole has become ovalized:** if ovalizing exceeds 2 mm / 0.078 inches - the size of the original hole (fig.20).

Only use knives manufactured in compliance with ISO 5718.

The knife fastening components must be periodically checked. In particular, check their condition after they have hit against obstacles, whenever the knives are replaced and, generally, at the beginning and end of the season.



WARNING

The fastening components must be replaced when:

- the **screw that fixes** the knives has become curved or excessively worn under the head (fig.21).

- the **self-braking layer** of the fixing screw is missing or has become too worn (it is advisable to change the screw after it has been tightened 5 times), (fig.22).
- the **fixing screw** has become worn in the zone where it holds the knife: if the diameter is 3 mm / 0.11 inches less than the original diameter (fig.23).
- the **tightening nut** is worn: if the height of the nut is 1/2 the original height (fig.24).
- the **tightening nut** is inefficient: if the washer under the nut has become flattened (fig.25)



The worn or damaged parts must be replaced with genuine spares.

5.3 HOW TO TOP UP THE LUBRICATING OIL



Change the oil in the unit and bar after the first 10/15 hours service.
 After this first change, the oil must be changed after every 200 effective hours service and in any case once a year.
 During the period in which the mower is used, **check the level of the oil each day** and top it up if necessary.



Before proceeding with these inspections, stop the tractor engine, remove the ignition key from the dashboard and disengage the driveline transmission.

Overdrive unit (fig.26):

check the level with the relative dipstick on the fill plug (T), and with the bar in a horizontal position:

- T = oil fill plug, with dipstick and breather valve
- A = oil drain plug
- S = bar breather plug

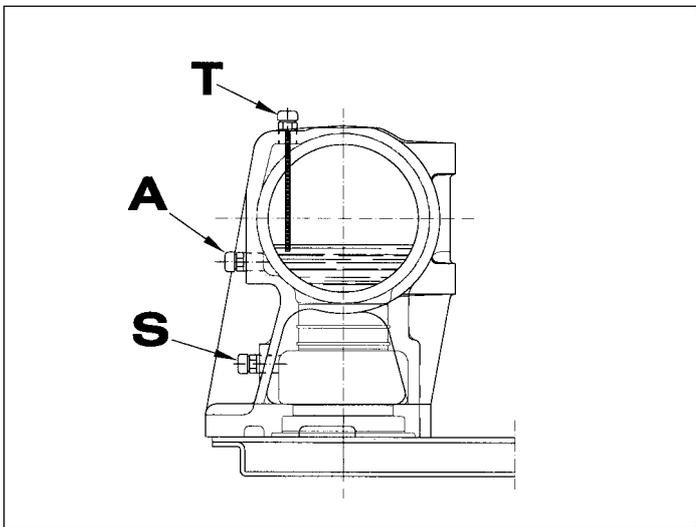


Fig. 26

use: **GEAR POWER ISO 150 oil - 0.8 liters**

Fill with oil with the bar in a horizontal position (plug T).
Drain the oil out with the bar in a vertical position (plug A).

Mowing bar unit (fig.27):

To check the level of the oil in this component, leave the bar in a vertical position for 5 minutes to allow the oil to flow downwards. The oil must reach the level of fill plug C.

- C = oil level checking and fill plug
- U = drain plug

Use: **GEAR POWER ISO 150 oil**

- bar with 4 discs: 1.7 liters
- bar with 5 discs: 2.2 liters
- bar with 6 discs: 2.7 liters
- bar with 7 discs: 3.2 liters

Fill with oil with the bar vertical (plug C). It should also be vertical when the oil is **drained** (plug U).

5.4 HOW TO GREASE THE MECHANICAL COMPONENTS

Before use and after every 8 hours effective service, you are advised to grease all the **articulations, supports, hinges, the points equipped with grease nipples** and the **safety release** (fig.28).

The **driveline** must also be greased regularly (Fig.28).
 Clean and grease the driveline before every long idle period.
 The protective tubes must be greased to prevent the plastic from becoming fragile in winter, when the temperature is low.

It is advisable to clean mud and other residues from the tops of the grease nipples before using them to inject lubricating grease.

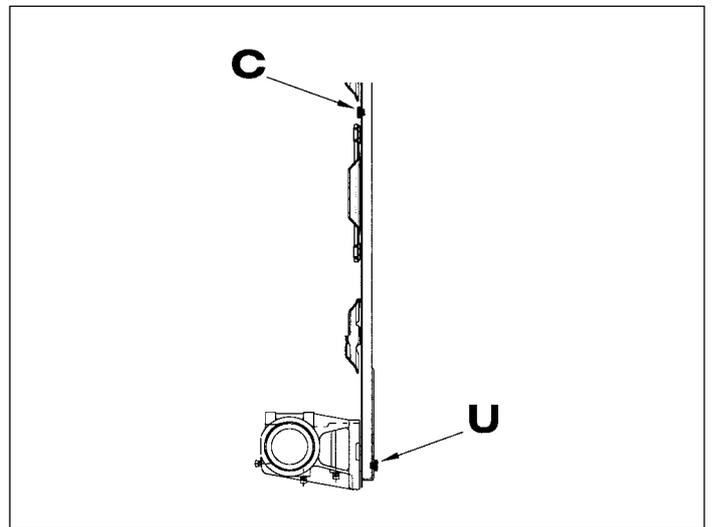


Fig. 27

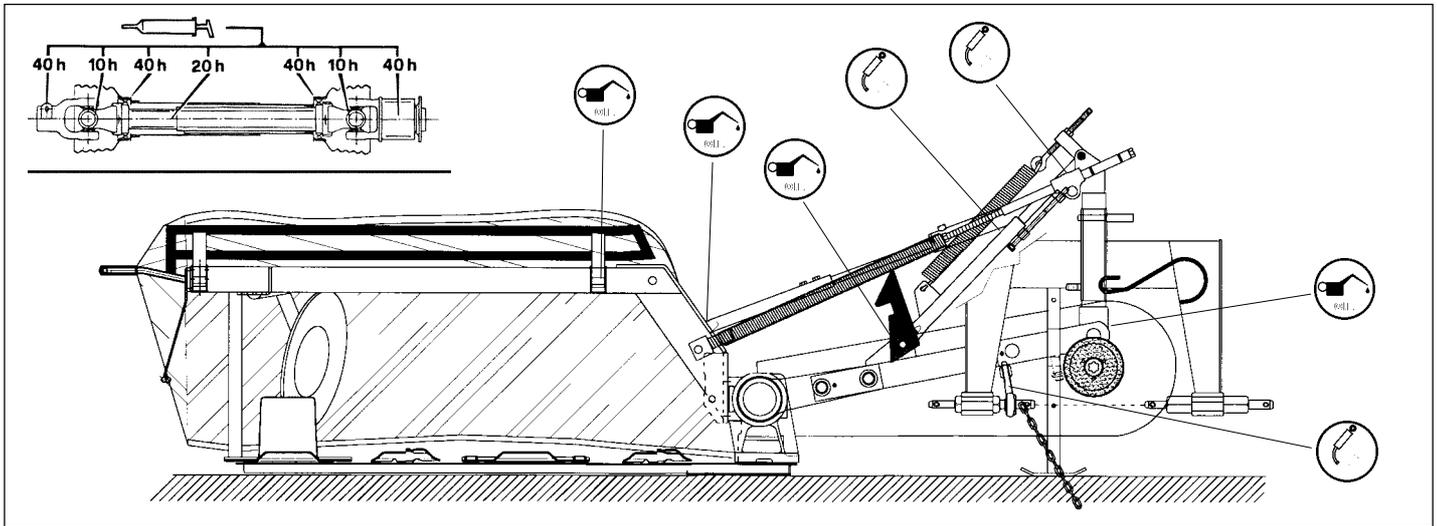


Fig. 28

5.5 STORAGE

- Clean the mower.
- Store the mower in a horizontal position (always lower the guards and cover).
- Change the oil in the overdrive and mowing bar as indicated in the instructions (quantity and type of oil).
- It is advisable to slacken off the transmission belts.

5.6 CHECK-CONTROL TROUBLESHOOTING

*** PROBABLE CAUSES**
—>RECOMMENDED ACTION

The mower vibrates too much during work:

- * The nylon bushes of the pivot are excessively worn or actually missing —> replace the bushes;
- * The crossbar pivot pin and/or the relative bushings are excessively worn —> replace the worn parts and lubricate regularly;
- * Excessive play on the discs —> make sure that the discs are fixed correctly and that self-locking nut **D** under the disc covers is tight, fig.17 (driving torque 18 Kgm = 180 Nm).

The mowing bar (disc carrier) fails to adapt to irregular ground in the correct way:

- * The height of the hitching framework that couples to the tractor is not regulated correctly —> check the setting as specified in **chapters 3.2, 3.5 and 4.1** (in particular: the two lower pins of the three-point hitch must be equidistant from the ground);
- * The mower pivots are not free to turn —> thoroughly clean and grease all articulations.

The mowing bar fails to lift parallel to the ground (even when the frame has been adjusted):

- * The perforated rod of the bar retracting cylinder is not regulated correctly —> adjust it correctly, by lengthening or shortening the rod with the relative screws.

Soil builds up between two adjacent skids in the front part of the bar:

- * The soil is too wet —> raise the tiller by means of the tractor's power lift in order to lighten the weight of the bar on the ground.
- * The bar weighs down too much on the soil —> the springs are not adjusted correctly;
- * The disc bar tilts too much —> adjust the bar tilt by means of the tractor's 3rd point idler (see **chapter 3.5**).

The safety device releases frequently:

- * Insufficient pressure exercised by the Belleville washers —> increase the compression of the springs by degrees (**chapter 4.4**).

The stubble is too high:

- * The disc bar is not slanting correctly —> increase the bar slant by means of the tractor's 3rd point idler.
- * The ground speed is too high —> lower the speed of the tractor.

The stubble height is uneven throughout the mowing width:

- * The mowing bar slants too much —> reduce the degree to which the bar slants;
- * The knives are excessively worn —> replace the knives;
- * The PTO speed is too low —> increase the PTO speed to 540 rpm and no more;
- * The ground speed is not correct —> increase or decrease the tractor speed to suit the crop height.

The stubble is too short:

- * The disc bar is not slanting correctly —> decrease the bar slant by means of the tractor's 3rd point idler.
- * The ground speed is too low —> increase the speed of the tractor.

SECTION 6

Warranty

6.1 WARRANTY PERIOD

The Manufacturer guarantees that the products are free from material and manufacturing defects for **one year** running from the date on which the machine is delivered, as indicated on the **Delivery and Warranty Certificate**.

The dealer or importer, or the purchaser must send the Delivery Certificate within 30 (thirty) days from the date of delivery. Failing this, all warranty rights become void.

6.2 WARRANTY CONDITIONS

- The obligations deriving from this warranty solely cover replacement and/or repair of those parts that, after inspection by one of the Manufacturer's technicians, are recognized as possessing material or manufacturing defects;
- The components that form the machine but that are not produced by the Manufacturer (e.g. protective covers, knives, belts, tyres, drivelines, hydraulic cylinders and spring tines) are not covered by this warranty. Refer to the warranty provided by the relative manufacturer.
- The defective parts must not have been altered, demounted by unauthorized persons and, moreover, the machine must have been used in compliance with the Manufacturer's instructions.
- There must have been no improper use, negligence or accidents;
- Transport and manpower costs sustained for repairing or replacing the defective parts are not covered by the warranty;
- No warranty given by persons other than the manufacturer shall be considered valid or binding;
- The manufacturer reserves the right to make modifications without prior notice and if these changes are made, shall not be obliged to modify previously manufactured products.

The warranty becomes void when:

- The fault is due to an incorrect manoeuvre;
- The fault is due to repairs carried out by unauthorized personnel or to use of spurious spares;
- The warranty peremptorily depends on compliance with the following rules by both the dealer and user or purchaser:
 - A- The warranty document must be returned within one month after the date of the mechanical fault.
 - B- The warranty document must be filled out with the following information in a legible way:
 - 1- Name and address of the Dealer and purchaser.
 - 2- Type and model of the machine.
 - 3- Serial number and year of manufacture.
 - 4- Date of delivery to the purchaser.
 - 5- Date of the damage.
 - 6- Number of hours or hectares of use of the machine.
 - 7- Power of the tractor used.
 - 8- Detailed description and presumed cause of the damage.
 - 9- Quantity and description of the damaged parts (use the references in the spare parts catalogue).

The damaged parts must be returned to the Manufacturer. The consequent transport costs are at the sender's charge. The warranty may never be transferred to another person

differing from the end purchaser without the Manufacturer's written consent.

The user agrees to accept the Manufacturer's decision whether to accept or refuse repairs under guarantee, which is final and irrevocable.

If repairs under guarantee have not been accepted, the dealer has fifteen days from the date on which the Manufacturer's letter is received to ask for the faulty parts to be returned. Once this period has elapsed, the defective parts will be destroyed.

In no case do dealers possess the right or power to make any decision on behalf of the Manufacturer.

The Manufacturer reserves the right to modify the machines it produces without prior notice and is not obliged to apply these modifications to machines that have been previously sold or that are on sale.

This warranty excludes all other explicit or implied legal or conventional liability of the Manufacturer.

The Manufacturer's liability may in no case exceed that described in the text above.

SECTION 7

Spare parts

Each machine has an identification plate affixed to the framework in the position indicated in **chapter 1.2.1** (1 fig. 1).

The information on the identification plate is essential when spare parts are ordered.



CAUTION

Only use genuine spare parts from the Manufacturer.