

IDENTIFICATION

Owner:.....
.....

Address:
..... No

City: State:

Machine Model:

Serial Number:

Year of Manufacture:

Invoice No:

Date / /

Authorized Distributor



WARRANTY CERTIFICATE

1. JUSTINO DE MORAIS, IRMÃOS S/A - JUMIL, guarantees that the agricultural instruments and their respective parts, manufactured by **JUMIL** itself, herein simply referred to as **PRODUCT**, are free of manufacturing or material quality defects.

2. The issues pertaining to the granting of Warranty shall be ruled by the following principles:

2.1. The warranty contained in this Certificate will be valid:

a) For the period of six (6) months, beginning from the date of the effective delivery of the **PRODUCT** to the farmer;

b) Only for a brand new **PRODUCT** directly purchased by the farmer from an Authorized Dealer or **JUMIL**.

2.2. With the exception of the following sub item, the warranty granted to the farmer will be provided through an Authorized **JUMIL** Dealer.

2.3. If the **PRODUCT** is sold to the farmer by a dealer that is not a JUMIL Dealer, the right to Warranty shall subsist, in this case, directly exercised before **JUMIL**, in the terms of the Certificate.

2.4. The warranty shall not be granted in the event of any damage to the **PRODUCT** or its performance caused by:

a) Operator negligence, imprudence or lack of skill;

b) Failure to obey use and maintenance instructions and recommendations contained in the Instructions Manual.

2.5. Likewise, the Warranty shall not be granted if the **PRODUCT**, after sold, undergoes any transformation or modification, or is employed for any purposes other than the ones for which the **PRODUCT** is originally destined.

2.6. The **PRODUCT**, when changed or substituted under this Warranty shall be of the property of **JUMIL**, and must be surrendered, upon fulfillment of the applicable legal requirements.

2.7. In fulfillment of its policy of continued evolution, **JUMIL** permanently submits its products to improvements and modifications, without any obligation to continue the manufacture of products or models previously sold.

JUSTINO DE MORAIS, IRMÃOS S/A

TABLE OF CONTENTS

1 - INTRODUCTION.....	04
2 - PRODUCT PRESENTATION.....	05
3 - SAFETY NORMS.....	06
4 - TECHNICAL SPECIFICATIONS.....	08
5 - OPTIONAL ITEMS.....	10
6 - PRODUCT COMPOSITION	10
7 - PRODUCT ASSEMBLY	10
8 - PREPARATION FOR USE	11
8.1 - PREPARING THE MACHINE	11
8.1.1 - TIRE PRESSURE	11
8.2 - PREPARING THE TRACTOR	12
8.3 - COUPLING THE MACHINE TO THE TRACTOR	12
8.3.1 - ADJUSTING THE CARDAN TO THE TRACTOR AND THE MACHINE	13
8.4 - CARDAN ASSEMBLY	14
8.5 - CARDAN SHAFT COUPLING	15
8.5.1 - SIDE CARDAN	15
9 - ADJUSTMENTS	16
9.1 - LEVELING THE MACHINE	16
9.2 - CUTTING HEIGHT ADJUSTMENT	16
9.2.1 - JM TRIMAX - TIRE	16
9.2.2 - JM TRIMAX - ROLLER	17
9.3 - WORK POSITION ADJUSTMENT	18
9.4 - ADJUSTING BELT TENSION	19
10 - OPERATION	20
10.1 - BALANCING THE ROTOR SHAFTS	20
10.2 - WORK SPEED	21
10.3 - PROCEDURES FOR CHANGING KNIVES	21
10.4 - KNIFE WEAR	22
11 - MAINTENANCE	23
11.1 - HYDRAULIC CYLINDER	23
11.2 - CHANGING REPAIR KITS	23
11.3 - INSTALLING THE PISTON GASKET	23
11.4 - INSTALLING THE ROD GUIDE GASKET	24
11.5 - INSTALLING THE GUIDE AND PISTON ON THE ROD	24
11.6 - FINAL INSTALLATION	24
11 - LUBRICATION	25
11.1 - LUBRICATION OBJECTIVES	25
11.2 - LUBRICATION SYMBOLS	25
11.3 - TABLE OF LUBRICANTS	26
12 - INCIDENTS, TROUBLESHOOTING	29
PARTS CATALOGUE	31

1 - IINTRODUCTION

Congratulations, you have purchased an implement manufactured with the latest technology and efficiency available in the market, guaranteed by the renowned brand **JUMIL**.

The purpose of this manual is to guide you in the correct operation of this product, allowing you to obtain the best performance and benefits from the equipment. It is for this reason that we recommend you read this manual attentively before starting to use it.

Keep this manual in a secure location for easy consultation.

JUMIL and its dealer network will always be ready to provide you with the required technical clarifications and instructions needed for your equipment.

2 - PRODUCT PRESENTATION

For long had the market requested it and **JUMIL** did its research with farmers from the most varied regions to develop and proudly present the new **TRIMAX EVOLUTION** machines.

It is a machine specially developed to fulfill the needs of medium and large-scale farmers using tractors in the range of 75 HP.

Various concerns were observed during its development in order to fulfill the many design requirements:

The **TRIMAX EVOLUTION** choppers and disintegrators are supplied with a work width of 1,380 mm, 1,580mm, 1,780mm and 2,300mm, being ideal for disintegrating the remains of cultivations and stalks such as hay, foliage, corn fibers, harvest leftovers, baccharis rufescens, Angolan grass, brachiaria, cotton stalks and others.

Types of Razor: **Curved Razor** with a 50° angle, used in the grinder. **Straight Razors** equipped with blades in-between the knives, which work as a fan, used for dry fodder. **Straight Razors** for use in the cutting of materials with much fiber.

Our Research and Development, Product and Processes departments used the latest design elaboration, two and three-dimensional (2D and 3D) structural analysis techniques, and the most advanced CAD and CAE software.

After several tests conducted in the most varied types of soils and conditions, we are certain that this equipment will fulfill all of your needs.

In case of any doubts, contact our **TECHNICAL SERVICES** department through phone number 55- 16 - 3660-1061, or through our website: **www.jumil.com.br**

3 - SAFETY NORMS

JUMIL, by building its Agricultural Machines and Implements, has the main objective of assisting HUMANITY in developing a better QUALITY OF LIFE. However, at the use of these implements, there are two main precautions to be RESPECTED:

DO NOT DESTROY THE UNIVERSAL BIOLOGICAL BALANCE BY EXECUTING INCORRECT AGRICULTURAL JOBS.

DO NOT CONSENT TO THE MACHINE DESTROYING IT. STRICTLY FOLLOW THE SAFETY NORMS. DON'T BE NEGLECTFUL!

1) Always use the proper footboards to climb up or down from the tractor;

2) Upon putting the engine into operation, be properly seated on the operator's seat and **ABSOLUTELY AWARE** of the full knowledge of managing the tractor and the implement. Always leave the gear on neutral position, disconnect the Power Take-Off and place the hydraulic commands on neutral position;

3) Do not run the engine in closed spaces as the exhaust fumes are toxic;

4) When maneuvering the tractor to interlock with implements or machines, ensure that there is enough space and that no person is close by; execute the maneuvers at **IDLING SPEED** and be prepared to brake in an emergency;

5) When operating implements **ACTUATED BY THE POWER TAKE-OFF**, (engage, disengage, or regulate) **TURN OFF THE POWER TAKE-OFF, STOP THE ENGINE AND REMOVE THE KEY FROM THE IGNITION. NEVER FAIL TO OBSERVE THESE NORMS!**

6) Require from your dealer the **PROTECTION COVER OF THE CARDAN SHAFT**;

7) When using slack clothes, observe the utmost caution; do not go too near to the **CARDAN SHAFT, BELTS, CHAINS OR GEARING IN MOTION**;

8) Do not make adjustments while the machine is in motion;

9) When working with implements or machines, it is expressly prohibited to transport anyone other than the operator on both the tractor and the implement, except in the existence of a suitable seat or platform for such purpose;

10) When working in sloppy terrain, proceed with extra caution, seeking to always maintain the required stability; and in case of an unbalance setting in, reduce acceleration, keep the equipment on the ground and turn the tractor's wheel toward the direction of descent;

11) On descents, keep the tractor in gear always, using the same gear you would use when going up;

12) Except on specific occasions, the brake pedals should be interconnected (not independent);

13) If after locking in an implement to the three-point system of the tractor hydraulics, check if the front is too light, close to lifting (tilting) and place the necessary weight on the front;

14) When leaving the tractor, leave the gear on neutral position, lower the implements that are lifted, place the commands of the hydraulic system on neutral position and apply the parking brake;

15) When leaving the tractor inactive for a long period, in addition to the procedures of the previous item, stop the engine and engage first gear if facing up and reverse gear if facing down;

16) STRICTLY OBEY ALL SAFETY NORMS ELABORATED BY THE TRACTOR'S MANUFACTURER;

17) OBSERVE EXTREME CAUTION WHEN HANDLING TREATED SEEDS, REQUESTING THE ASSISTANCE OF AN AGRONOMIST. DO NOT HANDLE TREATED SEEDS BARE HAND;

17.1) WASH HANDS AND PARTS OF THE BODY THAT HAVE BEEN EXPOSED WITH PLENTY OF WATER AND SOAP AT THE END OF EACH WORK SHIFT, ESPECIALLY BEFORE EATING, DRINKING OR SMOKING;

17.2) Do not throw treated seed and/or pesticide leftovers close to drinking water wells, waterways, rivers and lakes;

17.3) Destroy empty packings;

17.4) Keep the original packings always closed and somewhere dry, ventilated and in places of difficult access to children, negligent persons, and animals;

17.5) Avoid skin contact;

17.6) Before using pesticides, READ THE LABEL AND FOLLOW THE INSTRUCTIONS.

18) When driving with the implement on roads/highways, observe the following additional precautions:

a) If the machine is equipped with line markers, the arms should be lifted and fastened, with the disks turned inward.

b) Implements with width below or equal to 3 meters may circulate on roads as long as carrying the proper signaling devices - consult the Road Traffic Authority or Highway Police Department of your state.

c) Implements that cover the rear signaling lights of the tractor should have their own alternative rear lights.

ATTENTION

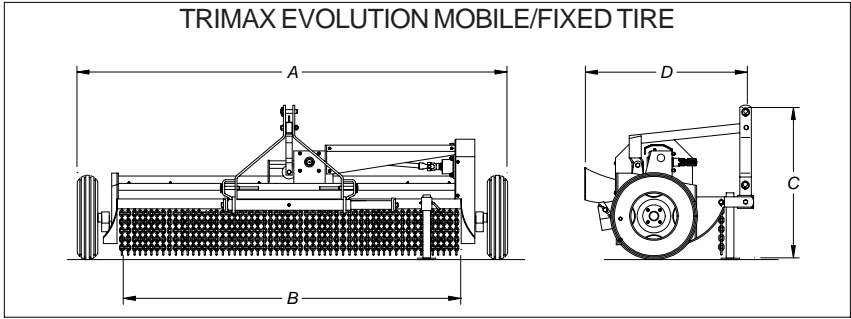
When you receive your JUMIL Implement, attentively check for the components that accompany the machine and attentively read the warranty certificate on the first page of the instructions manual.

4 - TECHNICAL SPECIFICATIONS

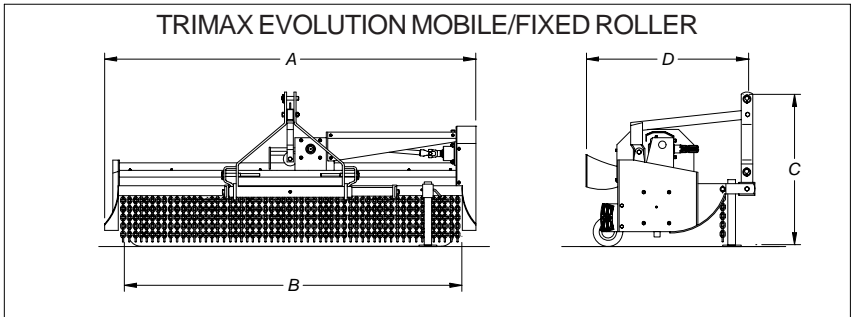
Model	JM TR-E 1600	JM TR-E 1800	JM TR-E 2000	JM TR-E 2500
<i>Cutting width mm</i>	1380	1580	1780	2300
<i>Cutting height</i>	0-150	0-150	0-150	0-150
<i>Required power</i>	45	45	45	45
<i>Quantity of knives</i>	44	48	56	76
<i>Yield ha/hr</i>	1.30	1.40	1.50	1.85
<i>Approx. weight Kg</i>	550	610	660	800

Note: The cutting height for **JM TRIMAX ROLLER** is 20 to 150mm.

Types of Knives: Straight and Curved.



Dimensions /Models	JM TR-E 1.600	JM TR-E 1.800	JM TR-E 2.000	JM TR-E 2.500
A	2250	2450	2650	3200
B	2360	1580	1780	2300
C	1200	1200	1200	1200
D	1300	1300	1300	1300



Dimensions /Models	JM TR-E 1.600	JM TR-E 1.800	JM TR-E 2.000	JM TR-E 2.500
A	2200	2400	2600	3150
B	1360	1560	1780	2300
C	1220	1220	1220	1220
D	1300	1300	1300	1300

5 - OPTIONAL ITEMS

DESCRIPTION	CODE
Roller Kit 1600	44.00.029-4
Roller Kit 1800	44.00.022-7
Roller Kit 2000	44.00.023-5
Roller Kit 2500	44.00.024-3
Wheel system Kit 1600	44.00.025-1
Wheel system Kit 1800	44.00.026-0
Wheel system Kit 2000	44.00.027-8
Wheel system Kit 2500	44.00.028-6

6 - PRODUCT COMPOSITION

Carefully check the following items that come with your machine:

CODE	DESCRIPTION	QTY
43.03.267	<i>Coupling Pin</i>	02
70.16.154	<i>Pin w/Collar 7/16"x1.3/4"</i>	02
43.02.080	<i>Front Cardan CC 5004/2</i>	01
43.02.968	<i>Jack Stand</i>	01

7 - PRODUCT ASSEMBLY

The machine leaves the plant already assembled and only requires following the preparation procedures to begin operation.

8 - PREPARATION FOR USE

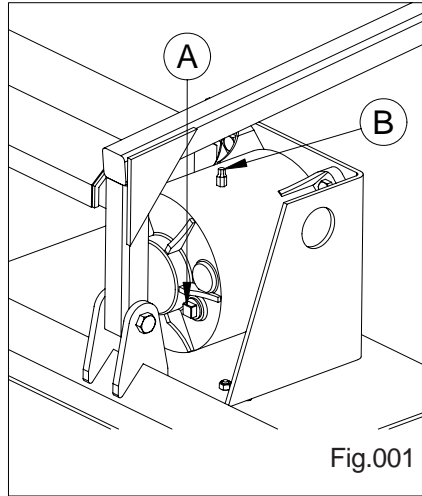
To put your **TRIMAX EVOLUTION** into operation you must fulfill the following requirements:

8.1 - Preparing The Machine

a) Check Oil Level

To check the oil level of the gearbox, remove the plug ("A" Fig.001), if the oil is below the indication (plug), it must be topped. To do this, just remove the vent ("B" Fig. 001).

Use the following oil specification - **SAE 140 API-GL5 OIL**



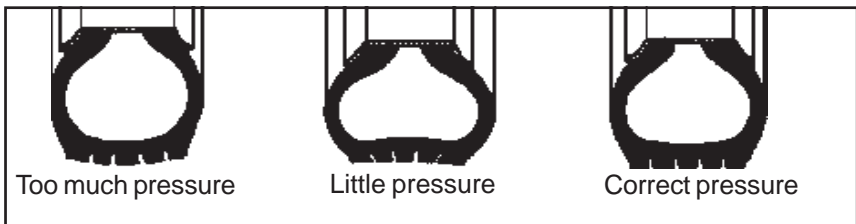
ATTENTION

It is necessary to check the oil level after about 100 work hours.

8.1.1 - Tire Pressure

For a lasting service life, the tires should contain the correct pressure. Lack of pressure or excess pressure leads to premature tire wear.

Check if the pressure of the TRIMAX tires is within the range of 44 pounds/inch.



8.2 - Preparing The Tractor

The tractor's state of preservation is of great relevance to the machine's perfect performance as it will integrate the machine through the coupling system installed on the three points.

Therefore, before coupling, it must be reviewed, in addition to the usual maintenance. Special attention must be given to the three-point hydraulic system, so as to obtain accurate response to the commands, and so that the vertical arms and third point can easily have their dimensions changed without need of tools.

8.3 - Coupling The Machine To The Tractor

Now that you have properly prepared the tractor and the machine, proceed to coupling it. The three-point system of the hydraulic device allows a single person to carry out the coupling operation. Therefore, choose a flat site and proceed as follows:

Previously align the tractor and the machine and while in idling speed and on reverse gear, bring the tractor close to the machine until the arms of the hydraulic device, in lowered position, are aligned as much as possible with the machine's pins. Fit the anchor ring of the tractor's left arm in the machine pin and place the lock cotter pin, and then connect the arm of the third point to the machine's tower; to do this one may need to increase the arm's length and to do so, maneuver the central portion of the arm and not just the anchor ring portion which is closer to the machine. With this arm connected, and changing its length (usually reducing it), you will be able to move the machine until the pin from the right side of the machine is in the direction of the anchor ring of the tractor's right arm. Usually, the height does not match, and it will require changing the height of the arm, which is possible by means of a handle on the arm itself - this is the reason why the connection of this arm is left for the end.

Next, connect the cardan shaft through the pressure buttons on the crampon destined for the tractor and the machine.

ATTENTION

Before coupling the cardan between the tractor and the machine, make the necessary adjustments on the cardan.

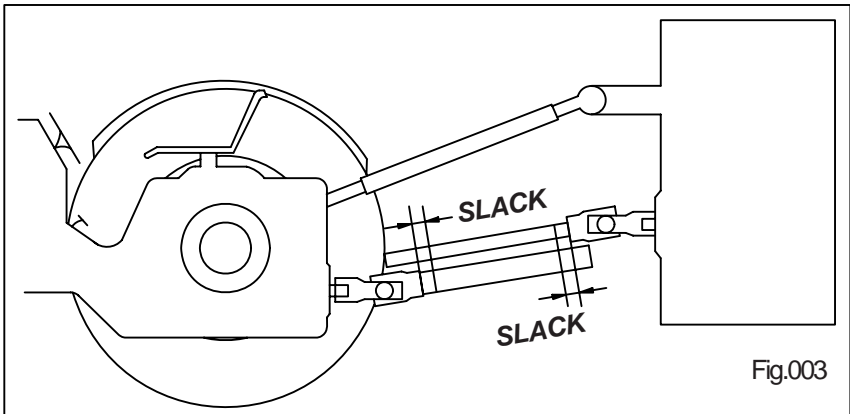
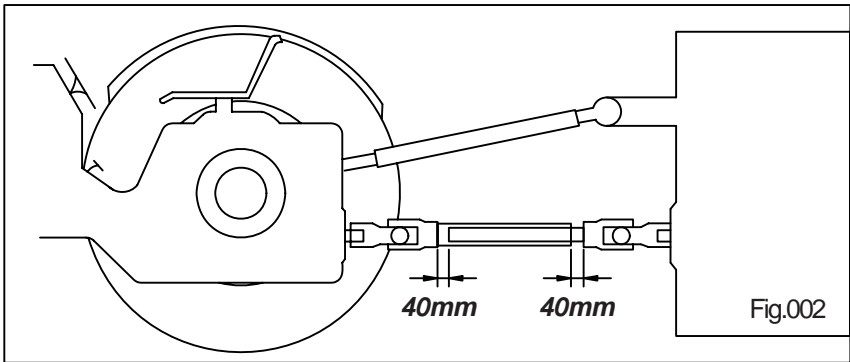
8.3.1 - Adjusting The Cardan To The Tractor And The Machine

For the proper functioning of the cardan, we recommend following the instructions below before starting the job:

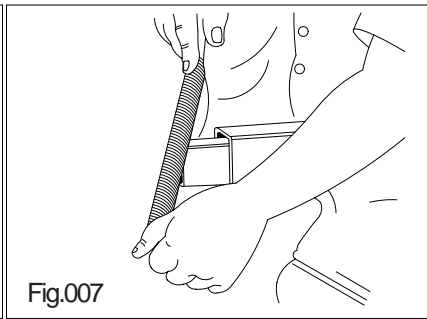
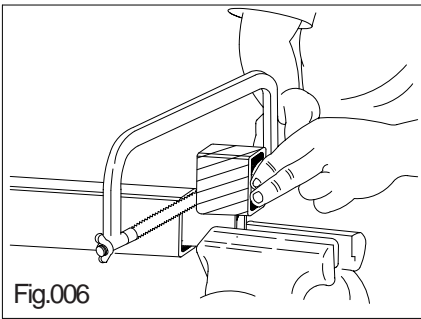
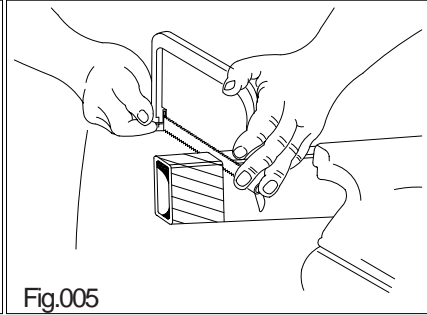
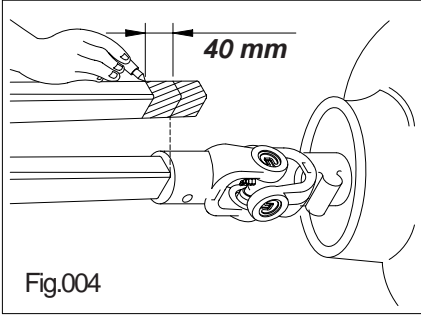
1- With the machine installed on the tractor, detach the shaft from the cardan pipe. By means of the respective pressure buttons, fasten the corresponding ends on the tractor and the machine.

2- Overlap one on the other and mark each to delimit the excess to be cut off. In addition to this marking, consider a 40 mm slack (Fig. 022). Do not cut yet.

3- Raise and lower the machine with the cardan disarmed (pipe and shaft overlapped) through the tractor's hydraulic system, checking if the marked slack - 40mm does not exceed the limit established, causing interference on the fork bodies, i.e. it should maintain a slack in any working position of the machine (Fig. 003)



4- After defining the spots to cut, shorten the internal and external protective pipes equally. Shorten the internal and external sliding profiles by the same length as the protective pipes. Remove all tips and rough edges and grease the sliding profiles.



8.4 - Cardan Assembly

To install the cardan (pipe and sliding profile), observe that the internal and external forks always remain aligned in the same plan. Otherwise, the cardan will be subjected to vibration, leading to premature wear of the crossarms.

ATTENTION

The size of the cardan should be verified and/or adjusted if required, whenever the tractor model and/or brand are changed. Failure to observe this may damage the machine and/or cardan.

8.5 - Cardan Shaft Coupling

To couple the cardan shaft into the tractor's power socket (TDP), first clean the cardan and grease the implement's shaft.

8.5.1 - Side Cardan

Check the tightness of the bolt fixing the side cardan sleeves, ensuring that it does not come loose when the implement is running ("A" Fig. 008).

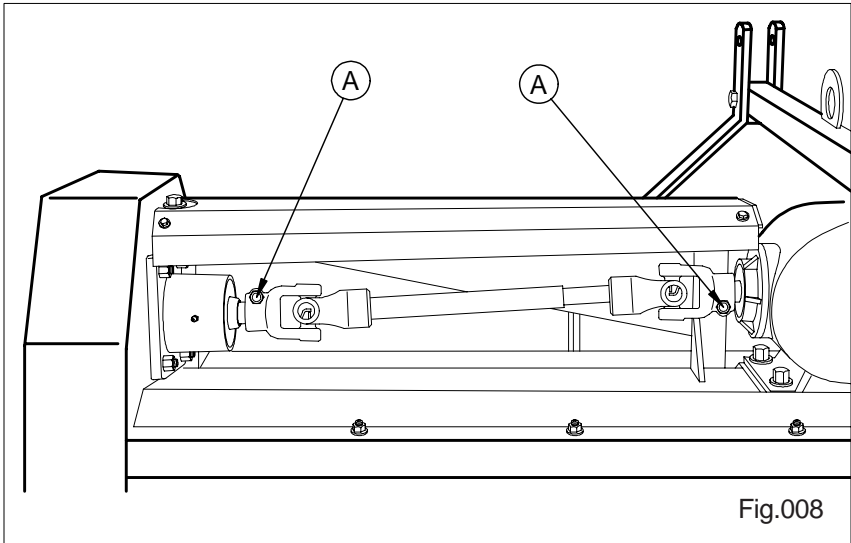


Fig.008

9 - ADJUSTMENTS

9.1 - Leveling The Machine

For the machine to run properly, it is necessary to leave it leveled in both ways (transversal and longitudinal). Leveling it transversally is achieved by means of the two hydraulic arms of the tractor in order to leave them with the same length.

The left arm is fixed while the right arm can have its length altered by means of a crank. Usually, this arm has an indication arm with the same dimension of the fixed arm. After leveling the machine transversally, proceed to level it longitudinally, actuating the third point connecting arm, reducing or increasing its length.

After performing the above-described operation and leveling the machine, adjust the side stretchers to have the machine stay absolutely centered in relation to the tractor's shaft and with the least side clearance as possible.

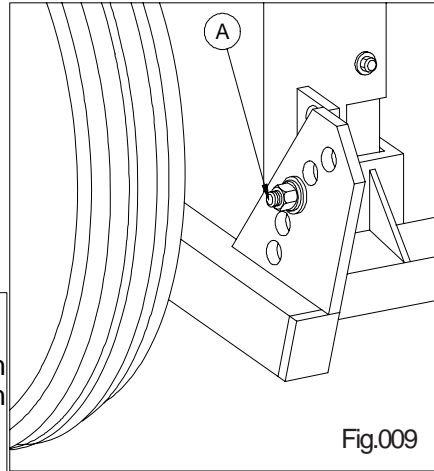
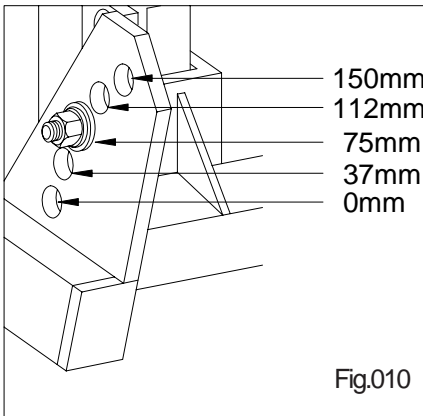
However, it is necessary to be careful as by raising the hydraulic system the stabilizers may be damaged in case they are stretched out in excess. To prevent this, the adjustment should be made with the hydraulic arms raised.

9.2 - Cutting Height Adjustment

9.2.1 - JM TRIMAX - Tire

With the machine over the ground, loosen the bolt fastening the adjustment ("A" Fig. 009) and verify the desired height using the third point to move it until it matches the hole of the desired cutting height, and then tighten the bolt back ("A" Fig. 009).

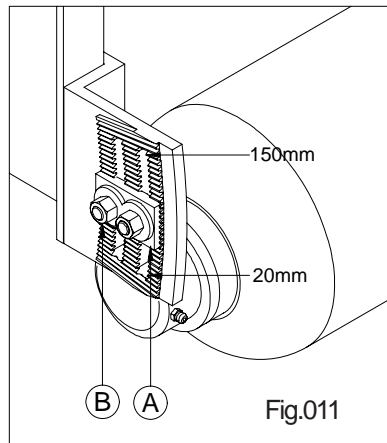
The height can vary between 0 to 150 mm according to Fig.010, on the **TRIMAX EVOLUTION** tire.



9.2.2 - JM TRIMAX - Roller

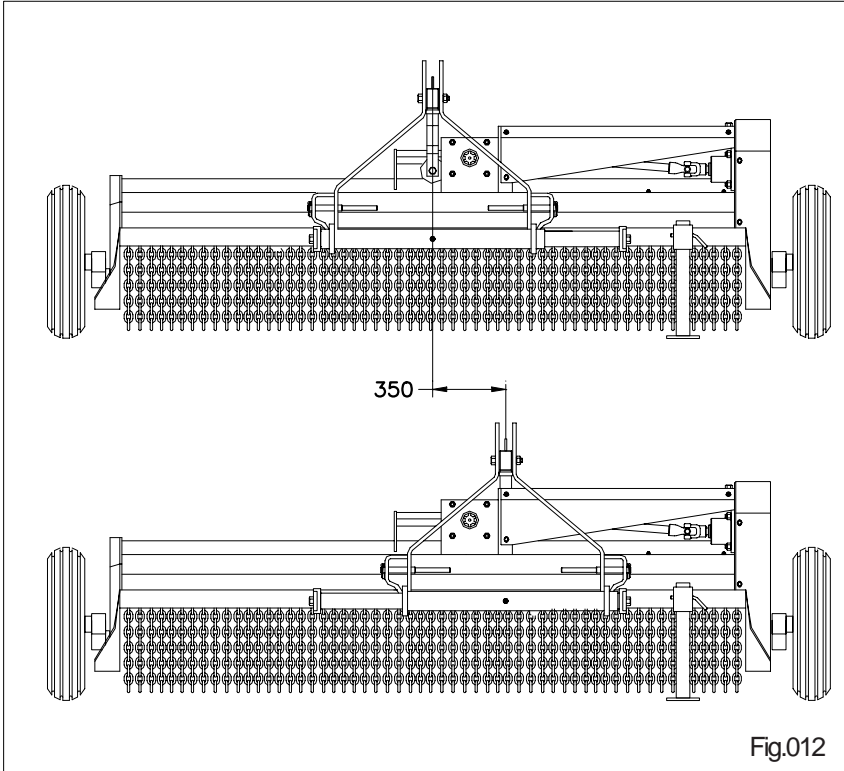
With the machine over the ground, loosen the bolt fastening the adjustment mordant ("B" Fig. 011) and verify the desired height using the third point to move it until it matches the hole of the desired cutting height, and then fasten the mordant back ("A" Fig. 011).

The height can vary between 20 and 150 mm, according to (Fig.011).



9.3 - Work Position Adjustment

According to your need, your implement can work centrally or sideways with movement to the right by 350 mm and this is so by actuating the cylinder that moves the header (Fig. 012).

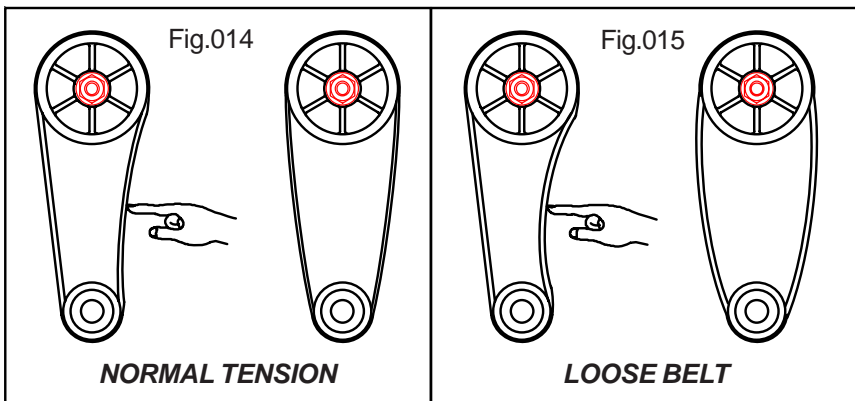
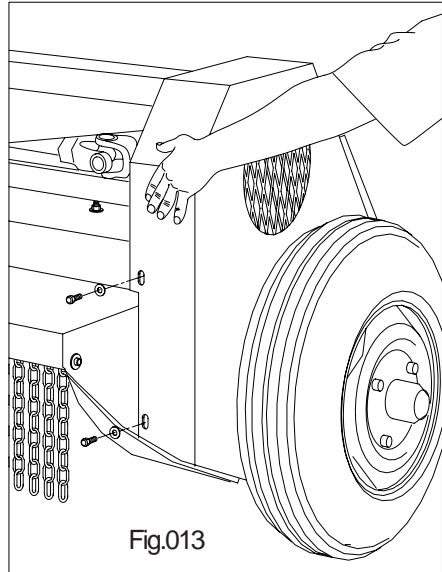


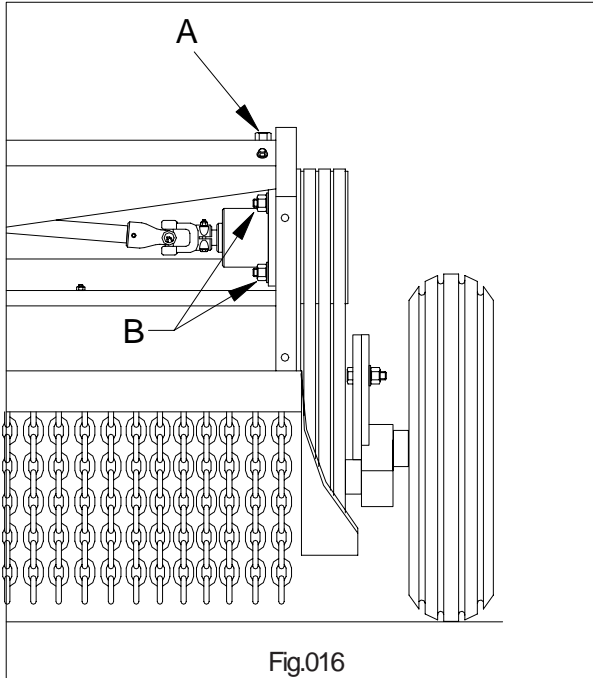
9.4 - Adjusting Belt Tension

IMPORTANT

Before adjusting the belt, ensure that the implement is not running.

It is of extreme importance that the tension of the belts be verified after 100 working hours and to do so, one should remove the hood covering the belts (Fig.013). If the tension of the belts is as shown in the Figure below (Fig.015), it is necessary to correct it, and this will only require weakening the bolts fixing the transmission bearing ("B" Fig. 016) and using the take-up screw, as shown in the Figure ("A" Fig.016), adjust the belt as shown in the Figure (Fig. 014).





⚠ ATTENTION

Check belt tension periodically and keep it well stretched.

10 - OPERATION

10.1 - Balancing The Rotor Shafts

Occasional accidents while working may occur, breaking the knives. When such occurs, immediately interrupt the job and substitute the knives to maintain the rotor shaft's balancing as the breakage of knives unbalances the rotor shaft and possibly causes permanent damage to your implements (Fig. 017).

⚠ ATTENTION

When the knives break, the job must be interrupted immediately.

10.2 - Work Speed

The speed of 6 to 8 km/h is recommended in order not to compromise the implement's service life.

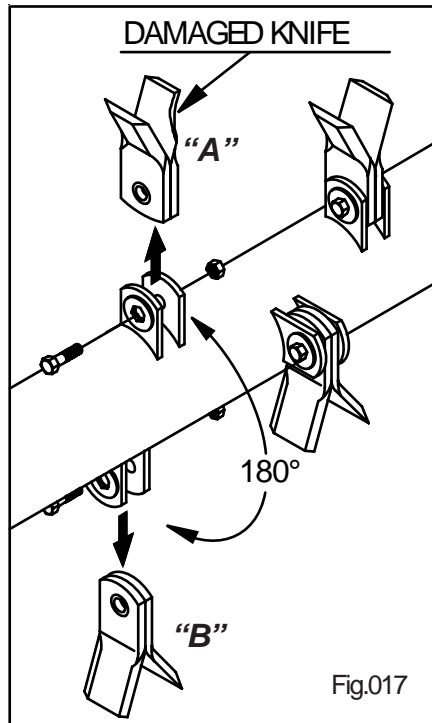
10.3 - Procedures For Changing Knives

- 1 - Locate the damaged knives
- 2 - On finding them, remove the knife pair, even if only one is damaged ("A" Fig.017).
- 3 - Remove the knife pair immediately opposite the damaged ones (180°), according to ("B", Fig. 017) even if the knife set is not damaged.
- 4 - Replace with original knives

NOTE:

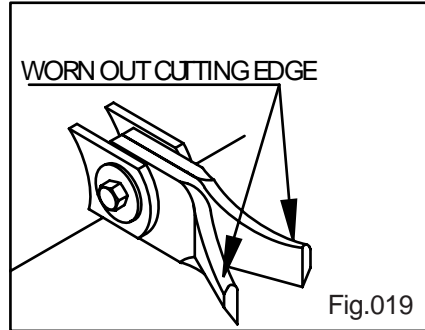
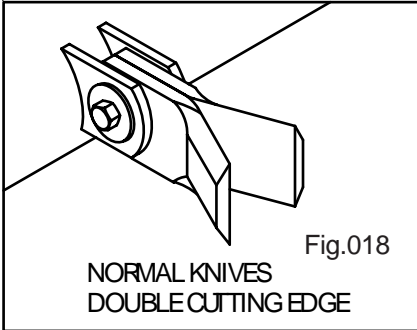
- 1) The above procedure is the same used in changing **straight knife**.
- 2) When the knife pair is installed with blades in-between the knives there is no need to change the blades if they are not damaged. They do not interfere in the balancing of the rotor shafts.

⚠ IMPORTANT
 Correctly change the knives
 to keep the rotor shaft balanced.



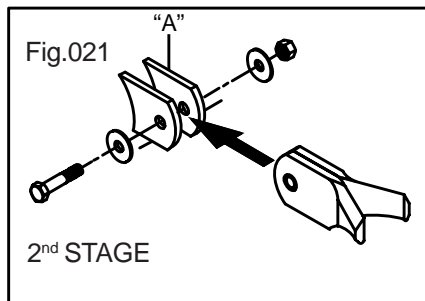
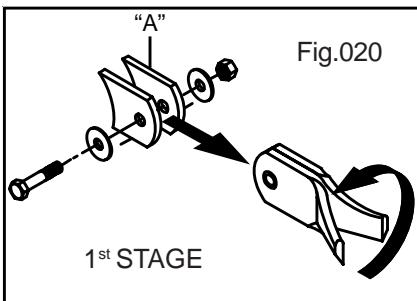
10.4 - Knife Wear

The knives of this implement are interchangeable, having double cutting edges (Fig. 018), whereas during the work, natural wear occurs with consequent cutting loss (Fig. 019). When this occurs, invert the cutting edge, doing so for each knife (set pair) (Fig. 020), keeping it on the same support ("A" Fig 021).



INVERTING THE CUTTING EDGE OF WORN OUT KNIVES

- 1st - DISMOUNT THE WORN OUT KNIVES AND INVERT THE CUTTING EDGE
- 2nd - MOUNT AGAIN ON THE SAME SUPPORT



11 - MAINTENANCE

11.1 - Hydraulic Cylinder

11.1.1 - Changing Repair kits

a) Fix the cylinder on a vise and dismount the guide nut with a special key, removing the stem guide with the piston and disassembling it.

b) Remove the obstructed kits from the piston and the stem guide.

c) Conduct the general cleaning of the parts with gasoline, and with the help of a brush (avoid using scotch).

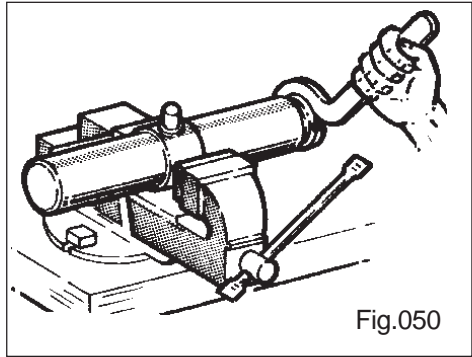


Fig.050

11.1.2 - Installing the Piston Gasket

a) Slightly lubricate the edges and housing of the piston and install the gasket. For this installation, see Fig. 051.

OBSERVATION: Never use a screwdriver or tools that can damage them.

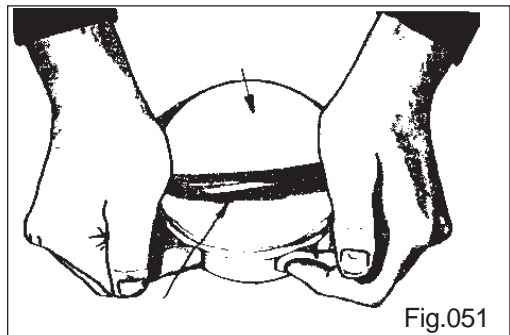
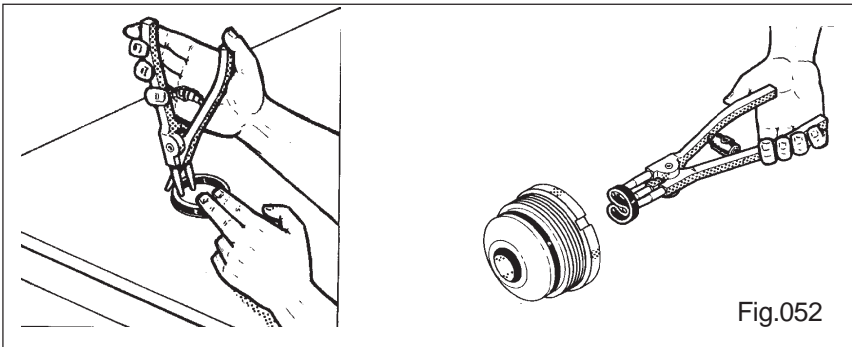


Fig.051

11.1.3 - Installing the Rod Guide Gasket

a) For installation of the gasket, use a special set of pliers, lubricating its edges for easy extraction. Put the gasket with its lips facing downward on the table and press the pliers until the gasket is in the installation position, then introduce it into the hole of the guide up to the housing height and release the gasket, accommodating it into place. Afterwards, place the scraper and the oil ring manually.



11.1.4 - Installing the Guide and Piston on the Rod

ATTENTION

To install, first of all put the rod guide passing it on the piston housing side, never on the larger threading side where it will destroy the gasket. Then, put the piston and the retaining nut.

11.1.5 - Final Installation

Lubricate the sleeve before the installation and introduce the rod with the piston until reaching the condition to twist the guide nut, tightening with the special tool.

12 - LUBRICATION

12.1 - Lubrication objectives

Lubrication is the best assurance of the equipment's proper running and performance. This practice extends the service life of moving parts and reduces maintenance costs.

Before starting operations, ensure that the equipment is properly lubricated, following the Lubrication Plan's instructions.

In this Lubrication Plan, we consider the equipment running under normal working conditions, while in heavy-duty services we recommend reducing the lubrication intervals.

ATTENTION

Before beginning lubrication, clean the grease fittings and replace the damaged ones.

12.2 - Lubrication Symbols



Lubricate with lithium soap based grease, NLGI-2 consistence, in the recommended hour-intervals.



Lubricate with SAE 30 API-CD oil in the recommended hour-intervals.



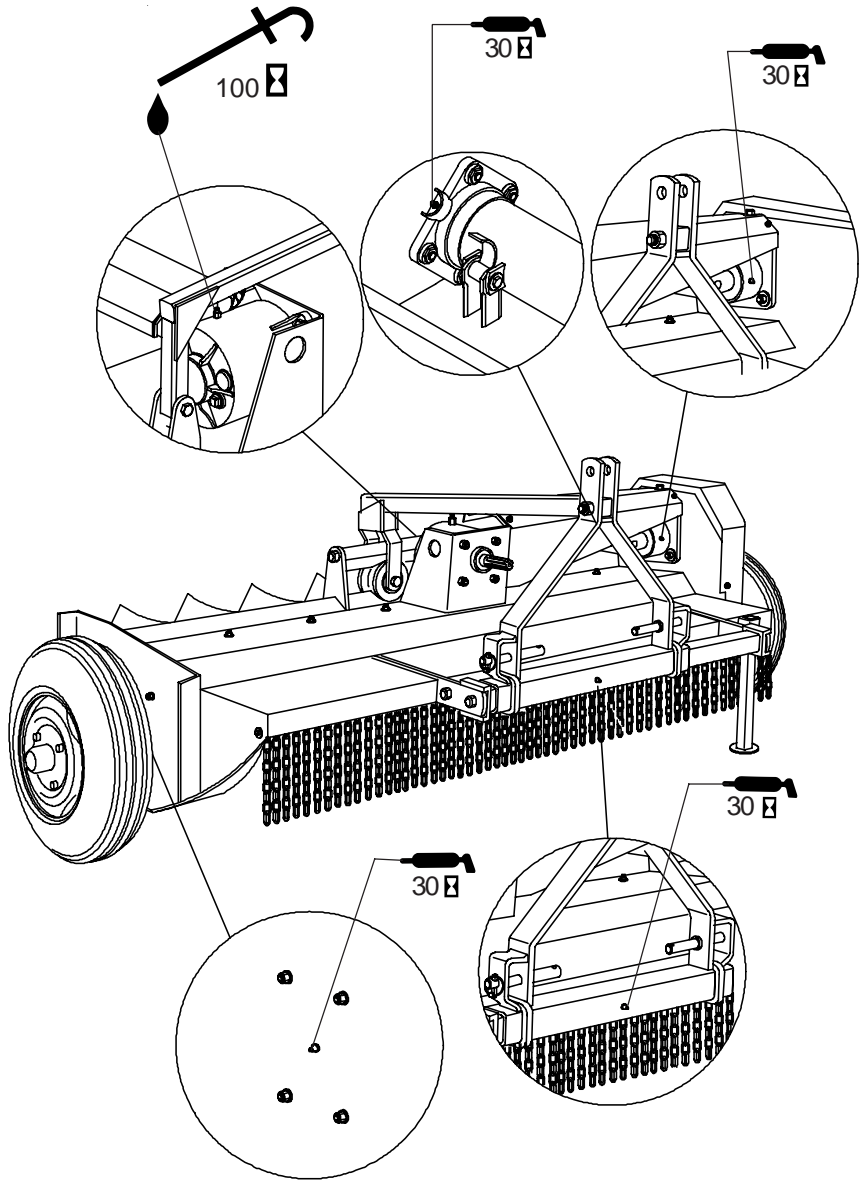
Clean with a brush.

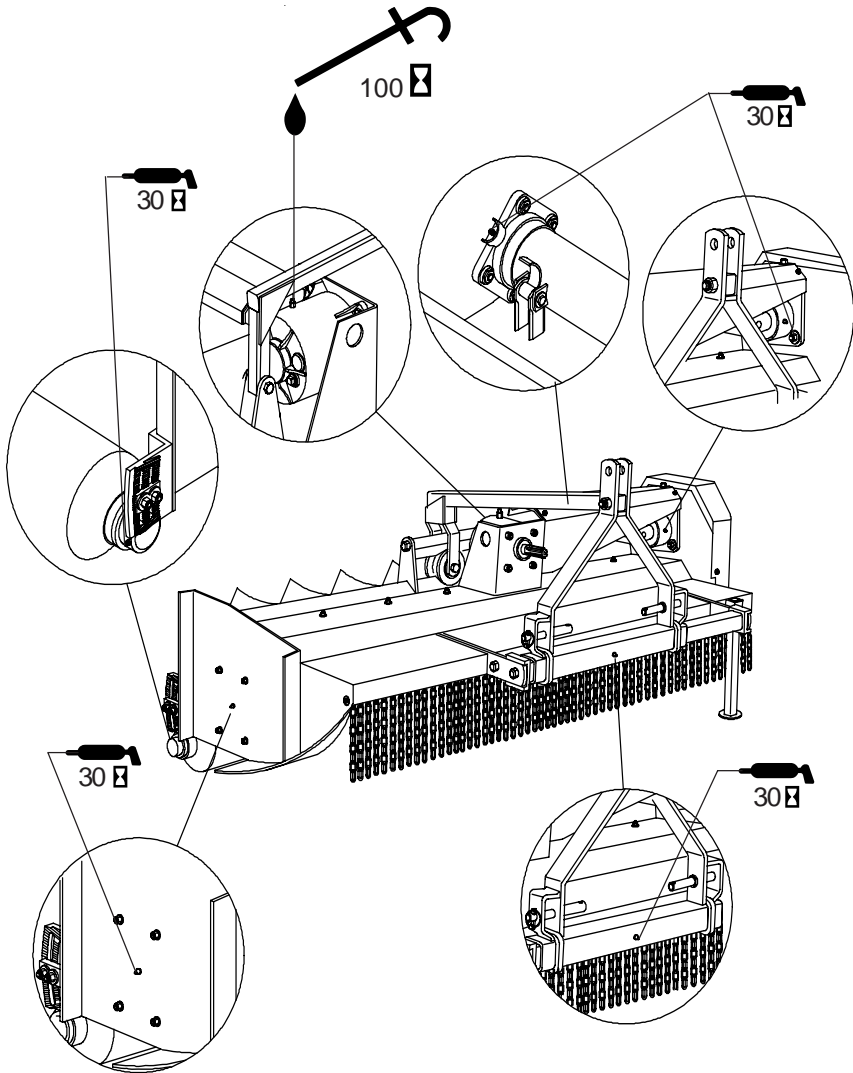


Lubrication intervals in worked hours

12.3 - Table of Lubricants

RECOMM. LUBR.	EQUIVALENCE							
	PETROBRAS	CASTROL	SHELL	TEXACO	IPIRANGA	BARDAHL	ESSO	MOBIL OIL
LITHIUM SOAP-BASED GREASE NLGL2	LUBRAX GMA-2	LM-2	ALVANIA EP-2	MARFAK MP-2	ISAFLEX 2	MAXLUB APG-2EP	ESSO MULTIT 2	MOBIL GREASE TT
SAE 140 API-GL5 OIL	LUBRAX TRM-5 SAE-140	HYPYDE B/EP-140	SPIRAX HD-140	MULTIGEAR EP SAE 140	PIRGEROL SP-140	MAXLUB MA-135 EP	ESSO GX 140	MOBILUBE HD-140
SAE 30 API-CD OIL	LUBRAX MD-400 SAF-30	TROPICAL SUPER-30	RIMULA CI-30	URSA OIL LA-3 SAE-30	ULTRAMO TURBO SAE 30	MAXLUB NO 03	BRINDILL A D3-30	MOBIL DELVAC 1330





13 - INCIDENTS, TROUBLESHOOTING** ATTENTION**

Before requesting for technical services, check the following items:

<i>ROTOR SHAFT NOT WORKING</i>	
<i>POSSIBLE CAUSES</i>	<i>SOLUTIONS</i>
1 - Damaged gearbox	1 - Replace damaged gearbox
2 - Inadequate belt tension	2 - Adjust belt tension
3 - Rotor shaft bearing broken	3 - Replace rotor shaft bearing

<i>JAMMED ROLLER</i>	
<i>POSSIBLE CAUSES</i>	<i>SOLUTIONS</i>
1 - Bearing broken	1 - Replace the damaged bearing
2 - Bushing broken	2 - Replace the damaged bushing

<i>SIDEWAY DISLOCATION NOT WORKING</i>	
<i>POSSIBLE CAUSES</i>	<i>SOLUTIONS</i>
1 - Hydraulic hose damaged	1 - Replace damaged hydraulic hose
2 - Hydraulic cylinder not engaged	2 - Replace the piston or hydraulic cylinder repair kit.

NOTES