



OPERATORS MANUAL & PARTS LIST

for the MAJOR Range of

Flail Mowers

Disclaimer

While every effort has been made in the production of this manual to ensure that the information contained herein is full and correct, Major assumes no responsibility for errors or omissions. Major reserves the right to modify the machinery and the technical data contained within the manual without prior notice. Further to this, Major assumes no liability for any damages which may result from the use of the information contained within this manual.

INDEX

	PAGE
Section 1 - Introduction	3
Section 2 - Identification Data & Guide to Main Parts	4
Section 3 - General Safety & Safety regulations	5
Section 4 - Delivery of the shredder	11
Section 5 - Assembling the shredder and hitching to the tractor	13
Section 6 - Operation	16
Section 7 - Maintenance	19
Section 8 - PARTS LISTING -	
* MT10	24
* MT22	29
* MT24	35
* MT26	41
Section 9 - Troubleshooting	48
Section 10 - Warranty Procedure	49

SECTION 1 - INTRODUCTION

Thank you for purchasing this Major Shredder. Please carefully read this operation manual and strictly observe these instructions for the safety of you and the personnel around you. In this manner, you will enjoy long and satisfactory use of this product.

The user of the shredder (also called "Implement" or "Machine" in the text) is personally responsible for his own safety and that of any other people in the vicinity of the machine.

It is therefore essential for the user to possess detailed knowledge about how to use, service and correctly mount the shredder on the tractor. The machine's user must be an operator with a suitable technical background to enable him to understand the contents of this manual, including the diagrams found herein. The figures and descriptions in this handbook give both users and maintenance staff all the basic instructions to comply with when using and servicing the shredder.

The user is responsible for ensuring that connection to the tractor and use of the shredder complies with the current provisions in merit. The machine may only be used and serviced by persons who have become fully familiar with the contents of this manual, which should always be kept ready to hand. Users should become particularly familiar with chapter 2 concerning safety precautions.

Always comply with the given instructions. Consult the Major After-Sales Service Centre or your nearest dealer in case of doubt. In the event of faults or problems which require the assistance of a qualified technician, contact the manufacturer directly or your nearest dealer.

This machine is consigned according to the warranty conditions valid at the moment of purchase. The user must not tamper with the machine or make modifications to its parts since such action shall void the guarantee.

The manufacturer reserves the right to modify the machine specifications and performances without advance warning and declines all responsibility for any errors caused by incorrect installation or improper use of the equipment.

Contact MAJOR or your nearest dealer if there are substantial differences between the implement and the indications in this handbook. The standards that govern the guarantee are cited in the "Certificate of Guarantee" which is supplied to the user with this manual. The section in this certificate headed "testing and delivery" must be filled in, leaving no gaps, and sent to the address printed on it within 15 days of the delivery date. If this is not done, the guarantee is annulled.

Important: If the "Certificate of Guarantee" has not been enclosed, ask your nearest dealer for one, or contact us directly.



This symbol is used in the manual to call the reader's attention to various levels of danger that if not avoided will result in death or serious injury.

Important: References to this manual to the right side and left side of the machine mean to the right and left side of the operator seated in the tractors driving seat.

SECTION 2 – IDENTIFICATION DATA & GUIDE TO MAIN PARTS

The data plate indications must not be altered for any reason. We suggest that you write the data pertaining to your shredder in the spaces below (**Fig. 2.1**)

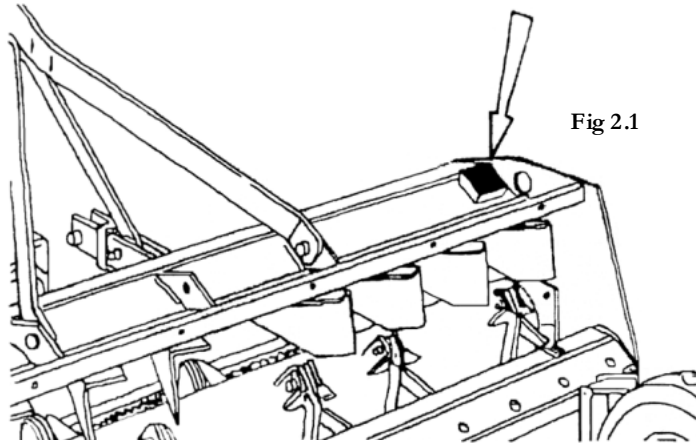
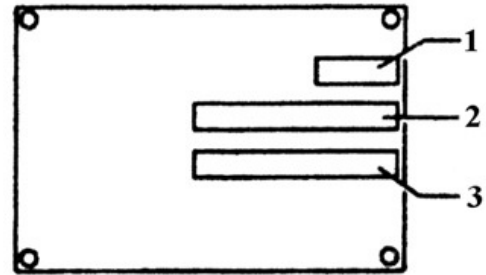


Fig 2.1

1. Year of Manufacture
2. Machine type or model
3. Serial Number



Key to main parts in fig 2.2

1. Three-point linkage used to couple the implement to the tractor
2. PTO shaft guard - Prevents the user from coming into contact with the rotating part of the drive line engaged in the PTO.
3. Gearbox - Increases the rotation speed of the tractor PTO.
4. Drive transmission to the rotor roller. Drive belts transmit power from the gearbox to rotor "7".
5. Chassis - This is the bearing structure of the implement.
6. Levelling roller (optional) - Adjusts the work depth of the knives or hammers.

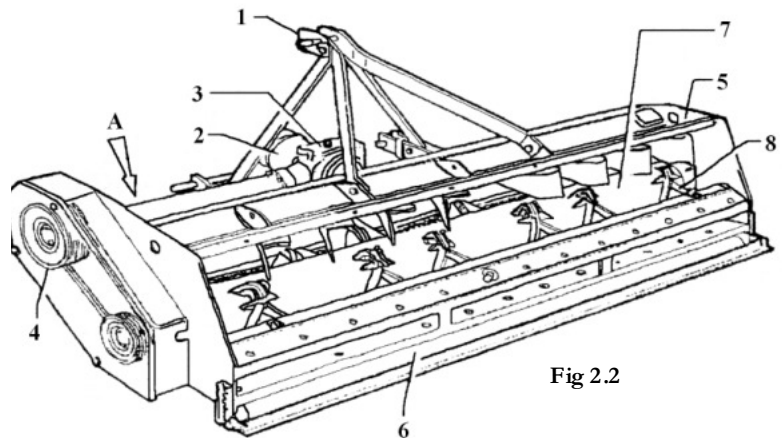


Fig 2.2

* As an alternative, some versions can be equipped with rear wheels that act in the same way as the levelling roller. Some shredder models can be equipped with side skids as another alternative or in addition to the above. Besides adjusting the work depth (as the levelling roller), these also act as a side protection.

7. Rotor shaft - The gearbox and drive belts transmit drive from the large diameter shaft to which the knives or hammers are hinged.

Note: This rotor shaft has been electronically balanced to eliminate all vibrations during its rotation.

8. Cutting tools.

Knives or hammers are hinged to the rotor shaft according to the type or version of the shredder in question. These knives or hammers are able to crush the product owing to their high rotation speed.

9. Front guard (**fig 2.3**)

Standard supply includes a set of articulated strips installed at the front of the implement to protect the tractor driver. These strips can be substituted for iron chains. As an alternative, some models are equipped with rubber front guards.

10. Rear casing (**fig 2.3**)

This is used when the shredded product must not be scattered at the rear. The rear casing is an optional on some versions and is unavailable on others.

SECTION 3 – GENERAL SAFETY & SAFETY REGULATIONS



In compliance with the current provisions in force, your flail mower has been equipped with safety protections to safeguard the operator and any other people in the vicinity. Never ever tamper without the safety devices. Such action could cause serious injury to the operator and to others.



For transport reasons, the accident prevention guards are supplied demounted from the machine and accompanied by instructions for their assembly. When the machine arrives, the user shall correctly assemble the guards, taking care to fully tighten all fastening elements. It is forbidden to use the machine unless all the necessary and supplied guards have been mounted.



The shredder must only be used to cut the products specified below.

MT 10	GRASS
MT 22	GRASS AND THIN PRUNING
MT 24	GRASS AND THIN PRUNING
MT 26	GRASS, PRUNING, STRAW AND STALKS

Moreover, it must only be used with a suitable tractor, (See Section 7) and driven by and adequate drive line driven by the tractor PTO. All other use is strictly prohibited. Users should become thoroughly familiar with the contents of this manual before using, servicing, mounting the implement on the tractor and all other pertinent operations.



Never wear jewellery, loose clothing such as ties, scarves, belts, unbuttoned jackets or dungarees with open zips which could become caught up in moving parts.



Always wear approved garments complying with accident prevention provisions such as: non-slip shoes, ear muffs, goggles and gauntlets. Wear a jacket with reflecting stickers if the implement is used during the evening near public highways.



Consult your dealer, the "Health and Safety Executive" or your nearest equivalent authority for information about the current safety provisions and specific regulations to comply with in order to ensure personal safety. If the machine is used in the evening, follow the relevant instructions.



REGUALTIONS FOR THE USE OF THE DRIVELINE

The machine may be supplied with a drive line complete with shields able to ensure the operator's safety. Keep the non-rotating shields efficient and in a good condition. If their condition is poor, they should be changed before the implement is used.

Unless it is correctly protected, the drive line could even cause the user's death since it can catch on parts of the body or clothing.

Always check that the shields are installed and perfectly efficient before using the machine. Check that they are well fixed and correctly inserted into their housing. Check that the retaining chains are correctly fixed to the tractor or shredder in order to prevent the shields from turning together with the drive line. Check that the drive line is free to turn within the shield.

Take great care to prevent the shields from being damaged when the implement is coupled and released from the tractor. Keep the grooved parts perfectly clean and greased so that they are able to correctly slide.

Besides being described in this manual, the method by which the drive line is coupled must also be checked out with the instructions in the tractor manufacturers manual. correct rotation speed of the tractor PTO is indicated on the PTO shaft guards of each machine.

SECTION 3 – GENERAL SAFETY & SAFETY REGULATIONS – (cont'd)

This rate is usually 540 or 1000 rpm. Always comply with the indicated speed.

The following items are applied to the driveline (if delivered with the machine):

- a danger sticker on the shaft guard (**Fig. 3.1**)
- A danger sticker on the driveline which becomes visible if the shield is damaged or missing (**Fig. 3.2**)

Strictly comply with the instructions on the sticker.



Fig. 3.1



Fig. 3.2



Fig. 3.3

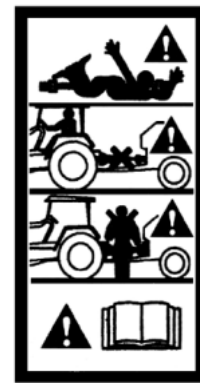


Fig. 3.4



STARTING REGULATIONS

1. Always check that any imminently dangerous condition has been appropriately eliminated before using the implement. Check that all guards and safety shields are installed, efficient and correctly mounted in place.
2. Never allow inadequately trained personnel to use the implement.
3. Before starting, always check that there are no persons, particularly children and animals, within the operative range of the implement. Examine the work area in order to become familiar with the type of soil in question. Check that there are no obstructions or objects in the area that could be caught up by the implement and thrown up at a distance. Clean all such objects from the area.
4. Never work near roads, paths, housing areas or places potentially frequented by people, vehicles, animals, etc. If such action is inevitable, check that these areas are deserted before beginning work and while on the job.
5. Never start the tractor before being correctly seated in the driving position. Never start a faulty implement, even when such a condition is only suspected. Contact your nearest dealer, or the person in charge, and ask for the implement to be inspected.



GENERAL OPERATION

1. Never ever use the shredder under influence of alcohol or the effect of medicines such as tranquillisers, sedatives, stimulants, drugs or any other substance as could slow or alter the reflexes or sight.
2. Never ever work when there are persons on the implement. No one must ride on the tractor apart from the driver unless this is explicitly allowed by the tractor manufacturer. The tractor must be equipped with a roll-bar and/or all other safety devices prescribed by the current laws in force. To ensure his personal safety, the operator must use these devices correctly. Consult and strictly comply with the instructions in the tractor use and maintenance manual.
3. The operator should never allow himself to be distracted when working. He should pay great attention and concentrate on what he is doing. Constantly keep the vehicle under control and always remember how to quickly stop and switch off both the tractor and implement.
4. Always check that children, adults and animals keep at an adequate safety distance from the shredder when it is in use.

SECTION 3 – GENERAL SAFETY & SAFETY REGULATIONS – (cont'd)

5. Take great care when working on sloping surfaces. It is preferable to work upwards or downwards rather than crosswise in order to avoid the risk of over-turning. Always check and comply with the tractor manufacturer's instructions, particularly in relation to the maximum gradient on which it is possible to work. When working on slopes, it is advisable to reduce the work speed, gradually varying the speed and direction of the vehicle during manoeuvres. Never repeatedly stop and start the machine.
6. Never operate on wet, slippery grass or soil or where the tyre grip is precarious. If such action is inevitable, always work at low speed to ensure the operator's safety. Pay great attention to any obstructions, stones or other objects which could hit the knives. The tractor engine must always be turned off, and the ignition key must be removed from the dashboard when intervening on the machine. For example, when it is necessary to detach the machine from the tractor or if grass or other objects that might have become tangled up in it must be removed.
7. Before dismounting from the tractor, always disengage the power takeoff (P.T.O.), turn off the engine, remove the ignition key from the dashboard, insert the brake, and do not approach the machine before the tools have come to a complete stop.
8. After having hit an obstacle, simultaneously stop the tractor and machine tool, turn off the engine, remove the ignition key from the dashboard, insert the brake, and check for any possible damage. If the machine has been damaged, all repairs must be carried out before continuing the working process. Always carry out any required repairs before continuing work. When the knives are turning, always keep the limbs well away from moving parts and those which heat during operation such as the over gear unit. Never ever attempt to check or adjust the belt tension while the implement is operating. Always stop it before this operation. Never ever lubricate the machine while it is operating, or when the PTO is engaged.
9. Never smoke while refuelling. Never refuel near smouldering, sparking material or open flames.
10. Always check whether the soil around the tractor is slippery. Clean all mud from the soles of the shoes before mounting the tractor. Keep the steps, bearing surfaces, handrails, shackles and tractor pedals (brake, clutch and accelerator) clean and free from all foreign bodies such as oil, grease, mud or snow in order to prevent all possibility of slipping or tripping.
11. Keep the operator support areas on the tractor free from mud or any thing else that could cause the operator to slip when the implement is mounted or demounted from the tractor. Never jump on or off the tractor. Always keep both hands and one foot well anchored. Never use the control levers or hose pipes as holds. These are mobile parts and do not offer a safe grip. Involuntary activation of a control could also cause the tractor or implement to accidentally move. Before the machine is released from the tractor, it should be rested on the ground in a stable position using the support foot where installed. Always check that the machine is balanced and stable, then release it from the tractor, checking again to ensure that it is firmly positioned.



TRANSIT ON PUBLIC HIGHWAYS

1. When driving on public roads, always comply with the Highway Code provisions in force in the country where the machine is being used. Pay particular attention near crossroads, underpasses, and level crossings, when meeting other vehicles, overtaking stationary or slower vehicles. Drive near the edge of the road and try not to hold up the traffic.
2. Never park the tractor and/or flail mower near crossroads, bends, level crossings or where the equipment could be a danger or obstruction to pedestrian traffic.
3. Never drive on public highways when the implement or tractor is particularly dirty since soil, grass and other items could drop on to the road and obstruct the normal road traffic. Disengage the PTO and disconnect the driveline when transporting the implement.

SECTION 3 – GENERAL SAFETY & SAFETY REGULATIONS – (cont'd)



INSTRUCTIONS FOR MAINTENANCE TECHNICIANS

1. The implement must be stationary and the tractor PTO disengaged before any work is carried out on the implement.
2. Routine and extraordinary maintenance operations must be carried out in a specially prepared place using correct and efficient tools. This place must always be kept clean and dry. There must be sufficient space around the implement to allow work to be easily carried out. Only trained and specialised personnel must be allowed to service the implement. Contact your nearest dealer when maintenance work is required.
3. Comply with the indicated bans and procedures when servicing the implement. Never ever use gasoline, solvents or other inflammable fluids as detergents. Use the non-flammable and non-toxic commercially available solvents authorised by the competent authorities. Never use compressed air or highly pressurised water to clean the implement. When this is absolutely inevitable, protect the eyes using goggles with side guards and use the lowest possible pressure.
4. At the end of the job, check and inspect the implement while it is still disconnected from the tractor. Check the cutting blades for wear. Never carry out welding operations without the manufacturer's permission and instructions. Before welding, always detach the implement from the tractor in order to prevent damage to the battery. Always wear a protective mask, goggles and gauntlets when welding, lapping or grinding, hammering or drilling. The implement should be lubricated as described in Section 7.
5. Correctly remount all guards and shields that were removed during the maintenance and repair operations.



TEST REGULATIONS

1. Always operate the machine outdoors. If the machine connected to the tractor must inevitably be started in a closed room, e.g. during tests after maintenance, always ensure that there is adequate ventilation to prevent harmful exhaust gas from accumulating.
2. Carry out various manoeuvres assisted by specialized personnel in order to simulate the different work conditions and acquire the necessary familiarity with the implement. Before starting, always check that there are no foreign bodies such as stones, soil or other, clinging to the rotors. When the rotor turns, such items could detach and be violently thrown notable distances. Always operate within a protective cage, or at least near a solid wall.
3. Always check that no one is too near or in a potentially dangerous position if the implement is to be operated raised from the ground, when testing for example.
4. Always disengage the PTO before driving the tractor to transport the implement from one place to the other.



WARNING DANGER PLATES AND STICKERS

1. Comply with the warnings on the stickers. (See **Fig 3.5** for locations & details of warning stickers on the machine) Failure to comply with the given instructions could cause death or serious personal injury.
2. Check that the stickers are always installed and legible. If this is not the case, contact your nearest dealer or "MAJOR" in order to obtain replacements (state the code number printed on the left hand side of each sticker when ordering).

STICKER NUMBERS & LOCATIONS



1

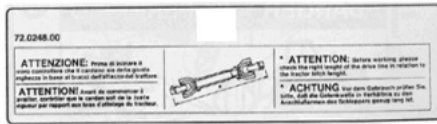


2



3

SECTION 3 – GENERAL SAFETY & SAFETY REGULATIONS – (cont'd)



4



5

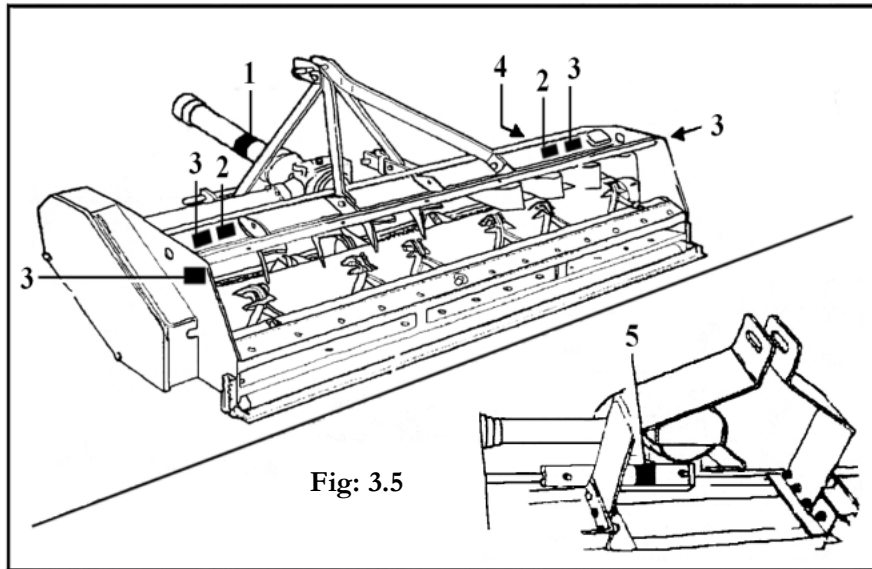


Fig: 3.5



KEY TO SAFETY DEVICES – Fig 3.6

1. Drive line shield.

The drive line is supplied with adequate plastic shields and relative fixing chains.

2. PTO shaft guard.

A cowling, where the drive line couples with the shredder overdrive, protects the rotating end of the drive line itself.

3. Front guards.

This shield is mounted to prevent particles of material shredded by the knives or hammers from hitting the operator or anyone in front of the implement. As an alternative, this shield is substituted on some models by a set of chains or a rubber barrier.

4. Drive belt guard.

Prevents access to the drive belts and pulleys. This guard can be equipped with a hole covered by a removable lid to facilitate operations when the belt needs tightening.

5. Side skids.

Prevent material from being thrown up or a limb from being accidentally caught under the implement.

6. Axle shaft guard.

Prevents contact with the moving shaft. On some versions, this guard can be removed while on others it is fixed to the gearbox.

7. Barriers.

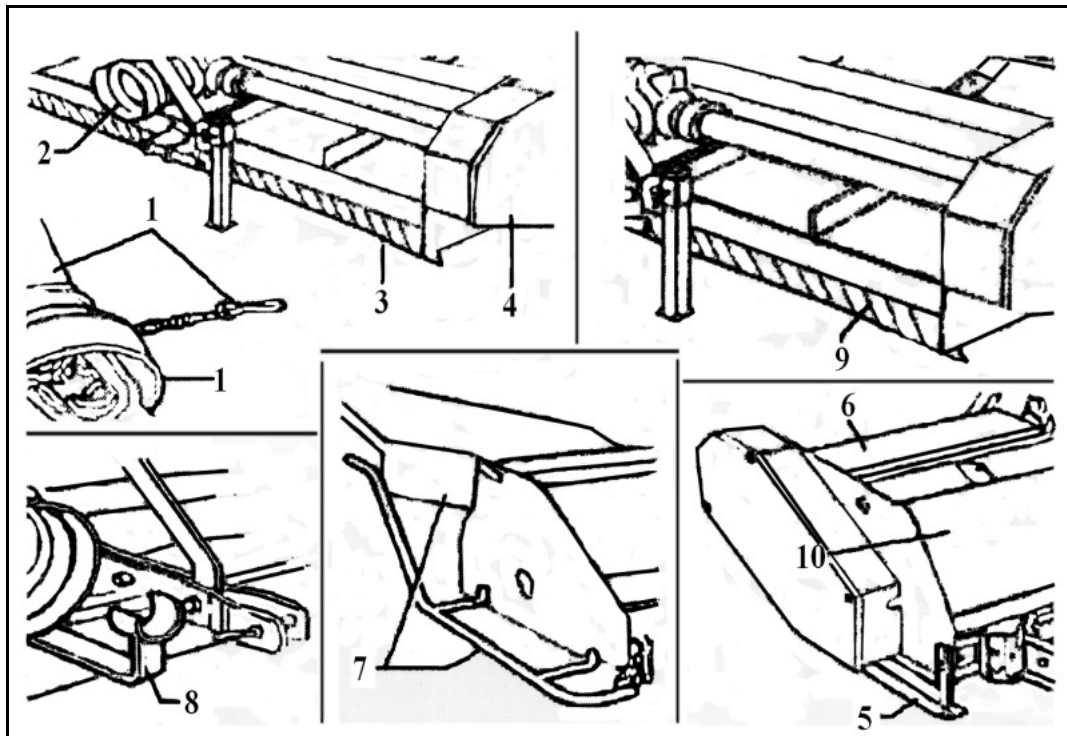
Safety bars or panels to prevent users from approaching dangerous parts of the shredder. The shape and size of these barriers vary according to the shredder model.

8. Drive line support.

Having detached the drive line from the tractor, the shaft itself can be placed on this support to prevent it from slipping and dropping.

SECTION 3 – GENERAL SAFETY & SAFETY REGULATIONS – (cont' d)

KEY TO SAFETY DEVICES Fig 3.6



NOISE

The acoustic pressure was measured at a distance of 2.6 meters from the centre of the implement and a 2m in height, with the implement operating in a no-load condition on grassy land with the rear hood (where installed) closed and a PTO rate of 450 rpm, thus obtaining the value: $L_{eq} < 80$ dBA.

Please also note that the machine is normally used outdoors and that the position occupied by the operator is seated in the driving seat of the tractor. Please also consult the prescriptions listed in the tractor use and maintenance manual.



VIBRATIONS

During normal operation, the machine will not transmit appreciable vibrations to the tractor or, thus, to the operator. These vibrations are less than 2.5 m/sec^2 to the operator's upper limbs and less than 0.5 m/sec^2 to the seated part of the operator's body. Consult the tractor manual for the vibrations transmitted by the tractor itself.



DISCLAIMER

The shredder has been built in compliance with the accident prevention regulations in force and therefore the manufacturer cannot be held responsible for damage resulting from:

- Use of the machine with faulty or missing guards
- Improper use of the machine
- Use of the machine by untrained or unauthorised personnel
- Incorrect assembly of the shredder;
- Use of the shredder on the wrong tractor;
- Lack of maintenance
- Unauthorised modifications or work carried out on the machine
- Use of non-original spare parts or those which are not specific to the machine
- Failure to observe all or some of the instructions
- Exceptional weather conditions.

SECTION 4 – DELIVERY OF THE SHREDDER

All shredders are tested in our plants to ensure that all moving parts operate correctly. All items are thoroughly checked before dispatch or delivery. When the implement is received, always check that it has not been damaged during transport. Contact your dealer if such damage is discovered.

The following paragraphs describe how to proceed with the lifting operations, which depend on the model and type of packing in question. Packaging may vary from country to country according to shipping requirements (fig 4.1)

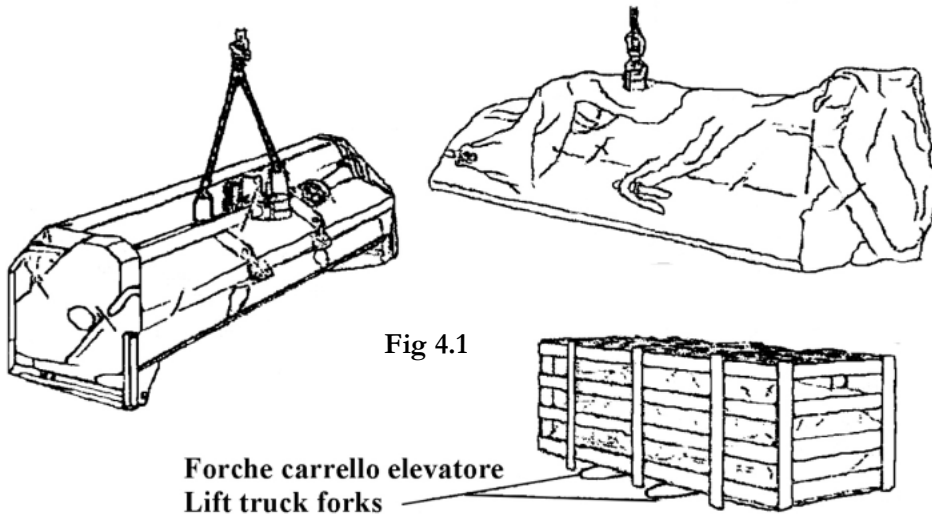


Fig 4.1

Forche carrello elevatore
Lift truck forks

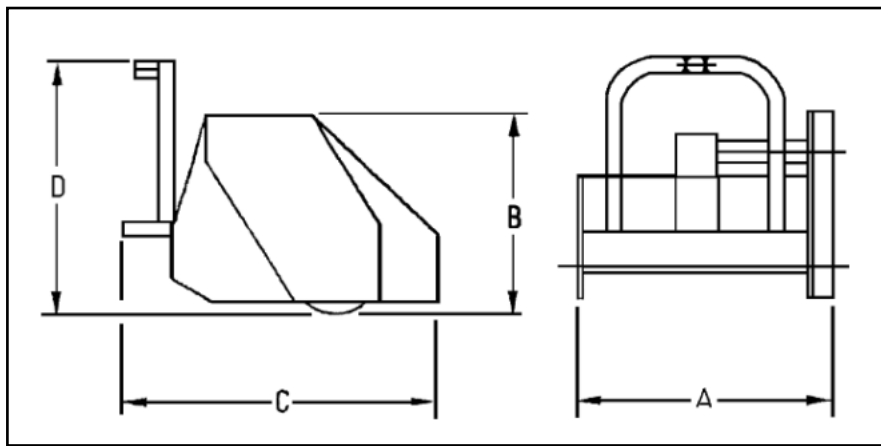


Use a lift truck, a crane or other equipment with an adequate carrying capacity to lift the implement, checking its weight in the table. Check that the load is stable and well positioned on the truck forks or crane hook. Keep the load as low as possible when moving the implement. This will ensure greater stability and visibility. Set the forks to their maximum width if a lift truck is used.

TABLE OF WEIGHTS AND DIMENSIONS

Model	A (max)		B (max)		C (max)		D (max)		Weight	
	mm	inch	mm	inch	mm	inch	mm	inch	kg	lbs
MT 10 155	1640	65	530	21	780	31	900	35	165	360
MT 22 105	1180	47	710	28	860	34	840	33	200	436
MT 22 140	1500	59	710	28	860	34	840	33	250	545
MT 22 170	1820	72	710	28	860	34	840	33	315	687
MT 24 250	2680	106	790	31	1150	45	950	38	685	1495
MT 24 280	2920	115	790	31	1150	45	950	38	740	1615
MT 26 180	1990	78	830	33	1070	42	1090	43	560	1220
MT 26 200	2230	88	830	33	1070	42	1090	43	620	1351
MT 26 230	2470	97	830	33	1070	42	1090	43	730	1591
MT 26 280	2950	116	830	33	1070	42	1090	43	860	1875

SECTION 4 – DELIVERY OF THE SHREDDER – (cont'd)



Hoisting & Handling the Packed Machine

Do not place the packed machines on top of each other as the packing is not designed to be piled up.

- Hoisting with a Forklift

Open the forks as wide as possible, hoist the machine using a lift truck, with an adequate carrying capacity to lift the machine, checking its weight in the table above. Check that the load is stable and well positioned on the truck forks.

Keep the load as low as possible when moving the implement. This will ensure greater stability and visibility.

- Hoisting with a Crane or Bridge Crane

There is a small eyelet in the upper part of the machine to facilitate its hoisting. When hoisting the machine, only hook up to this eyelet, not any other part. Take care to avoid swinging the load as this could be hazardous for the operator and the machine could be damaged. Use chains, cables and hooks whose capacity is greater than the load to be hoisted. Take particular care to use chains or cables that are intact and show no signs of fraying or wear, which could put the user's safety at risk.

SECTION 5 – ASSEMBLING THE SHREDDER & HITCHING TO TRACTOR

Handle all the heavy parts with a hoist whose capacity is greater than the load to be hoisted. Make sure all the units and parts are supported by suitable harnesses and hooks. Make sure there is no one near the load to be hoisted. Handle all the parts with care. Never put your hands or fingers between the parts. Always wear approved accident prevention gear. Make sure the tools supplied with the machine are in good working order. Never use tools with upset or deformed heads. After the machine has had a part removed and then remounted, it must be tested to check the new part has been mounted correctly.

The operator responsible must have the necessary skills and background to carry out the operations required correctly and safe

Hitching the Shredder to the Tractor

Check that all the guards and shields listed in Section 3 are installed and efficient. Always operate on a flat and levelled surface when hitching the implement to the tractor. This will prevent dangerous movements. Keep the hands and feet well away from the knives when hitching the shredder to the tractor. Never allow anyone to stand between the tractor and the shredder.

The implement must be used with a suitable tractor. Pay particular care when checking the following conditions:

- stability: the weight and dimensions of the implement must suit the technical specifications of the tractor.
- An initial indication as to the most suitable tractors is given in the "Average power" column in technical data information in Section 7 and introduction
- Maximum tractor power rating. Consult the values in the "Maximum power" column in Section 7 – Technical Data
- PTO speed. Consult the values in the "PTO speed" column in Section 7 – Technical Data when choosing the work speed.

The user shall ensure that the implement is fit for use with the tractor in his possession.

Prevent damage to the gears by checking the level of lubricant in the gearbox before using the shredder. Top up with oil of the same type if necessary. Check that the rotors supports have been greased. Consult Section 7 for the required type of lubricant. Check that the blades are free from foreign bodies. Very worn or broken knives must be replaced in compliance with the instructions in Section 7. Check that all warning and danger stickers are installed and legible. Replace them if necessary. Check that the tractor is in a good condition. Check the oil levels in the engine, gearbox and brakes. Check the cooling water level and tyre pressure. Always refer to the instruction manual supplied with the tractor.

Step 1:

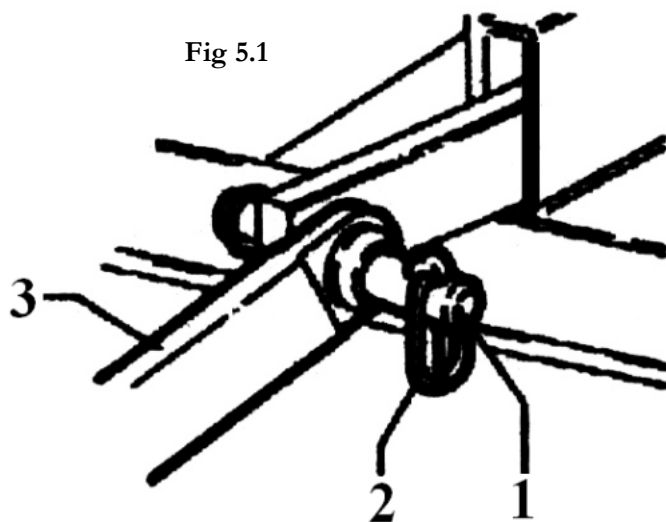
Reverse the tractor towards the shredder, aligning the tractor lift links with the two side coupling pins "1" (**Fig. 5.1**)

Turn off the tractor engine, remove the ignition key from the dashboard and insert the brake.

Insert the ends of the lift links into the implement coupling pins "1"

Fix them in place by means of the relative coupling pins "1"

Fig 5.1



SECTION 5 – ASSEMBLING THE SHREDDER & HITCHING TO TRACTOR

Step 2:

Operate lift link rod "13" to prevent excessive oscillations to the side. Oscillation of about 50mm each side (2 inches) is recommended. (Fig 5.2)

Level the shredder and consult the descriptions on the following pages for greater details. If a safety system is required this must be mounted from the side of the implement and not from the side of the tractor. Check that the drive line is the correct length

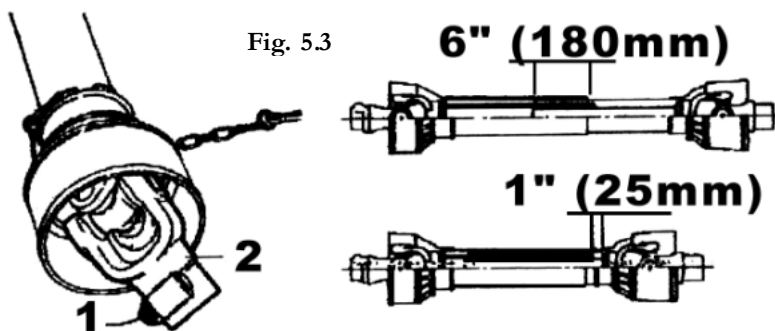
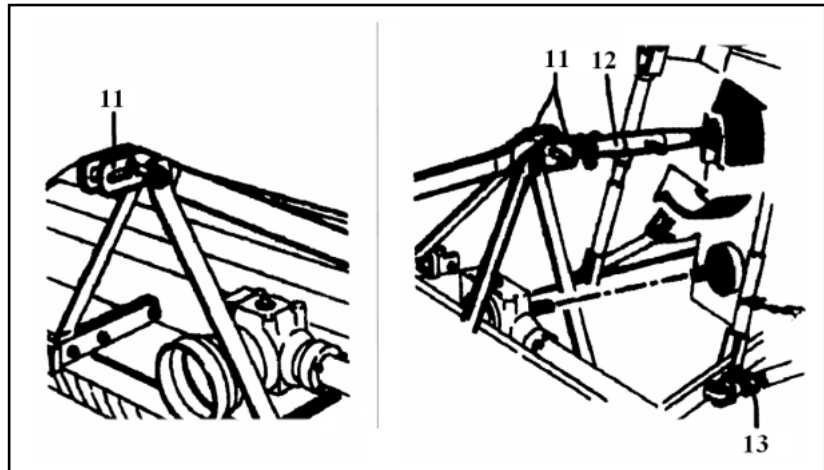


Fig. 5.3

The minimum coupling length must be no less than 180 mm (6 inches) in each work position. Driveline travel must still be about 25 mm (1 inch) in the maximum coupling position. (Fig 5.3)

These are the correct regulations for safe working conditions. If the driveline is too short and tends to slip out of place, it must be replaced with a longer one

PTO SHAFT LENGTH

The tractor PTO shaft length may be altered to suit the individual tractor model. When the machine is in operation, the PTO shaft should have a minimum 1/3 engagement as shown in the diagrams to the right. (Fig. 5.4)

Contact your nearest dealer or a specialised retail outlet if the PTO must be replaced with a longer one, since this must belong to the same power category and possess the same characteristics

If the PTO shaft is too long, it should be shortened in the following way:

- Set the machine at a minimum distance from the tractor, the brake the tractor and switch off the engine.
- Separate the two halves of the PTO. Insert the female part into the tractor PTO and the male part into the Rollemower PTO, checking that the position is correct by means of the fixing pins.
- near the two halves of the PTO together, keeping them parallel.
- using a felt tip pen, match mark the place where the two halves must be shortened as shown.
- first cut shield "1" and use part "2" as a reference to cut the splined shaft. (fig 5.5)

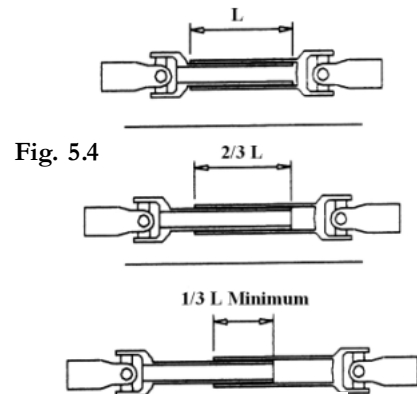


Fig. 5.4

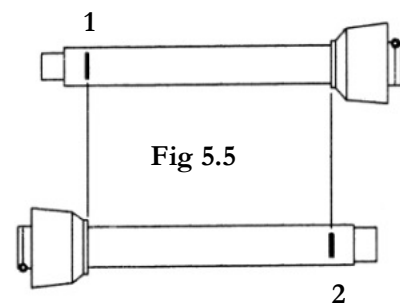
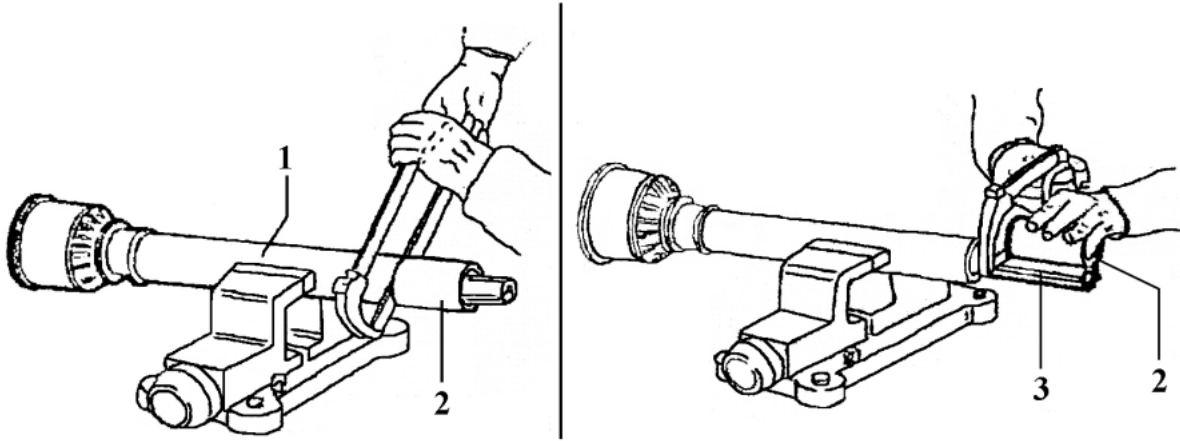


Fig 5.5

SECTION 5 – ASSEMBLING THE SHREDDER & HITCHING TO TRACTOR



- Proceed in the same way for the second half.
- Trim and chamfer the two cut ends of the PTO and clean off all swarf and shavings.
- Grease the two profiles and join the two halves of the PTO together again.
- Mount the PTO shaft and check that its length is correct as before. The shaft must not reach the end of the tube or project from this.

SECTION 6 – OPERATION & USE OF THE SHREDDER

Driving on the Roads

When driving on public roads with the shredder attached to the tractor, always respect the Highway Code. Check that the reflectors, hazard flashers and/or slow vehicle and/or projecting load indicators are installed when required, and efficient. These indicators must be installed at the rear of the implement. They must be clearly seen by the drivers of other vehicles behind. If the implement must be transported at night or in other conditions of poor visibility, it should be equipped with sidelights of the type approved by the Highway Code regulations in force. During transport, the shredder should be kept completely lifted with the PTO disengaged. No one must be allowed to lean against and/or climb on to the shredder during either work or transport.

On request, some very wide models may be equipped with a wheeled support for road transport in a longitudinal direction.

Preparing the Shredder for Work

Always be careful to check that the power rating of the tractor used to tow the implement does not exceed the maximum power rating for the model in your possession (Consult Section 7). Check that the speed of the PTO complies with the speed required by the implement. Compare the values on the shield of the PTO shaft.

IMPORTANT: Comply with these instructions in order to prevent early faults and damage to the implement.

Every time the shredder is adjusted, the procedure must be as follows:

- disengage the power takeoff;
- insert the tractor brake;
- turn off the tractor engine;
- remove the ignition key from the dashboard.
- Keep body parts clear of the rotating blades. Wait for them to stop moving.

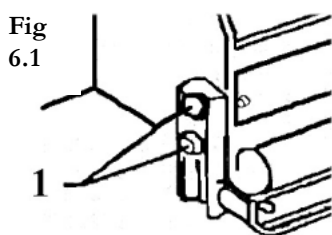
The work depth is adjusted by two rear wheels, by skids mounted at the sides or by a rear roller. Small work depth adjustments can also be obtained by means of the tractor lift. Whichever type of adjustment is required, the knife rotor must always be parallel to the ground but not touching it at the end of the operation. These implements achieve the best results if the knives are 70-80mm (3 inches) from the ground. This prevents the knives from hitting the ground, becoming quickly worn and requiring an excessive power draw.

Height adjustment is achieved in the following ways:

Roller Adjustment – Fig 6.1

Use the four bolts “1” and set the roller to the required position. The lower the roller, the higher the knives.

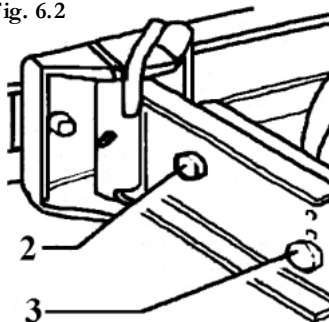
IMPORTANT: Make the same adjustment on both sides to obtain the same cutting height.



Wheel Adjustment – Fig 6.2

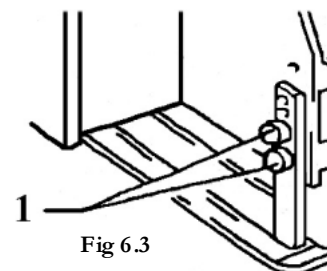
Slacken bolt “2”, remove bolt “3” and set it in the required hole. The lower the wheel, the higher the knives will be during work.

Fig. 6.2



Side Skin Adjustment – Fig 6.3

Use the front and rear fixing bolts (“1”) of each skid to adjust the new position. The lower the skids, the higher the knives will be during work. The minimum cutting height is 40mm (1.5 inches). Never ever use a lower value.



SECTION 6 – OPERATION & USE OF THE SHREDDER – (cont'd)

Using the Shredder

Before working always check that all the safety shields listed in Section 3 are installed, correctly mounted and efficient. Failing this, stop the shredder and replace or repair the damaged shields. Never continue work until all the shields installed by the manufacturer are efficient. Contact your nearest after-sales service centre if necessary. Always become familiar with shredder use before working with the implement. Make sure that you know how to quickly stop the work operations.

Step 1: Lower the machine until the four wheels are resting on the ground.

Step 2: If any further adjustments are necessary, carry out the work as described in the paragraph above – Adjusting the Cutting Height

Step 3: Accelerate the tractor by depressing the accelerator pedal to about half its travel and then engage the PTO.

Step 4: Advance with the tractor, setting the PTO to the required rpm rate (usually 540 or 1000 rpm). The travelling speed of the tractor must be selected according to the grass to be cut, its quantity and the cutting finish required. Optimum work speeds will be between 3 and 8 Km/hour (2/5 mph).

On shredders equipped with adjustable rear hoods, this part should be set in a closed position when work is carried out near roads, motorways, built-up or congested areas.

This will prevent damage or injuries to persons due to objects being thrown up. On particular jobs, where the rear hood must be left open in order to spread the shredded product, the implement may throw sharp objects such as stones and notable distances. Always check that the work area is free from any objects that could be hit or broken and thrown up by the knives or hammers.

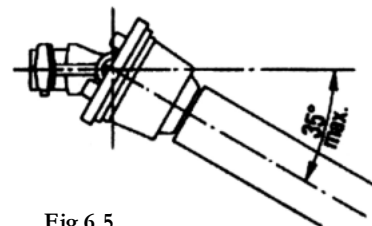
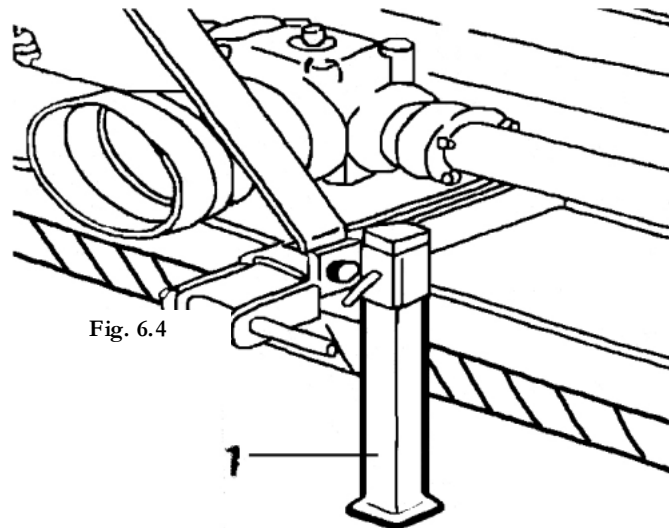
Check that no one moves into the field of action of the implement and always operate 40-50 m away from roads, built-up areas or places liable to be frequented by people.

After having completed the desired height adjustments, carry out the inspection listed in paragraph. After having lifted the support (anchoring it at the top in the work position), it will now be possible to use the implement. **(Fig. 6.4)**

The slower advancement is during work, the greater the shredding degree will be. Always raise the implement from the ground during manoeuvres, round bends and when reversing. After having worked for a few meters, stop and check whether the desired result is being obtained. Make any adjustments as may be necessary and then continue with the job.

Never reverse with the implement unless this is strictly necessary. In such cases, disengage the PTO and carefully check to see whether there are any obstructions at the rear.

Never lift the implement more than 250mm from the ground with the PTO engaged or the drive line could break and risk injury to the operator. The maximum tilt the drive can bear with the PTO engaged is 35° **(Fig: 6.5)**



SECTION 6 – OPERATION & USE OF THE SHREDDER – (cont'd)

As soon as the PTO is disengaged, the rotor roller of the shredder will continue to turn for a few seconds by inertia, also causing the drive line to rotate. On tractors without dual clutch controls, this rotation also affects the PTO shaft of the tractor, driving the tractor itself forwards.

To prevent this, it is advisable to order the shredder with a drive line equipped with free wheel, available on request as an option. This safety system will not modify the behaviour of the shredder during work in any way, but it will prevent rotor inertia from being transmitted to the tractor PTO, thus stopping it from moving.

Demounting the Implement from the Tractor

- Disengage the PTO. Set the implement on a flat surface. Stop the tractor and engage the parking brake.
- Rest the shredder on the ground by means of its support when installed. Failing this, safety lock the implement at a standstill.
- Switch off the tractor engine & remove the ignition key from the dashboard.
- Remove the driveline.
- Lower and lock the support foot.
- Detach the implement from the tractor by disconnecting the three-point hitch.
- Carry out the operations described in Section 5 (page 12) in reverse.

SECTION 7 – MAINTENANCE OF THE SHREDDER

Foreword



The machine must always be disconnected from the tractor before any cleaning, lubricating and servicing operations are carried out. If interventions must inevitably be carried out while the machine tool is still attached to the tractor, proceed as follows:

- Disengage the power takeoff;
- Insert the brake;
- Turn off the tractor engine;
- Remove the ignition key from the dashboard.

To prevent all risks, the operator should not merely trust in the hydraulic system of the tractor since this can be liable to leaks able to lower the machine even when the engine is off. Always block the machine with a rigid support when work must be carried out underneath.

Good, regular maintenance and correct use are essential if the shredder is to remain safe and long lasting. Respect the following rules, which can also be found on the plates attached to the machine.

IMPORTANT NOTICE
<p>BEFORE OPERATING THIS MACHINE, BE SURE TO CHECK THE FOLLOWING CHECK-POINTS (HAVING FIRST STOPPED THE TRACTOR ENGINE, DISENGAGED THE PTO AND CAREFULLY READ AND UNDERSTOOD THE OWNER'S MANUAL):</p> <ol style="list-style-type: none">1. Check oil levels (if necessary and SAE 90 EP oil)2. Grease the driveline spiders3. Grease all marked points on the machine4. Check to be sure the nuts/bolts are snug on those parts which are under the most stress (tines, blades, front linkage bolts, gear box bolts etc)

Checks made in our Factory

Your implement will have been subjected to various tests and trials both in our factory and on the dealer's premises. This procedure ensures that operation and the necessary adjustments will be correctly carried out. In particular, the following inspections are made:

1. The implement is checked to see that the serial number and all stickers have been affixed.
2. All points are greased as described in Fig 7.8. The oil level in the gearbox is also checked.
3. The transmission belts are checked to ensure that their tension is correct.
4. Check for oil leaks.
5. Check to see that all safety devices are installed and efficient.
6. General inspection during operation.

Inspection before use

Inspect the knives to ensure that they are free from foreign bodies. Check the implement for wear and damage. Particularly check that the knives, the drive belts and wheels are in a good condition. Check that all nuts and bolts are fully tightened, with particular reference to the knife bolts. Check that the oil and greases in the various points are at the correct level, as described below. Despite the previous inspections, lubricant may have partially spilt during transport and need topping up.

SECTION 7 – MAINTENANCE OF THE SHREDDER – (cont'd)

Inspections to be made periodically

Every 8 hours service

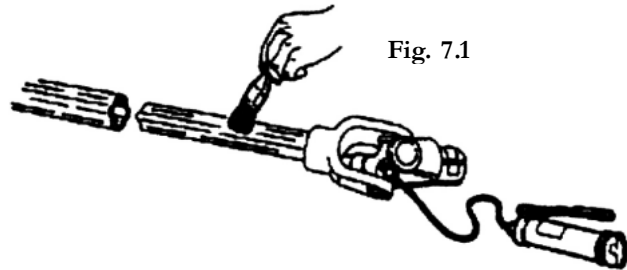
- Grease the rotary shaft supports (see diagram below).
- Check the condition of the driveline and grease the journals.
- Grease the wheel axles.

Every 50 hours service

- Check the belt tension.
- Check the oil level in the gearbox.
- Check the knives for wear. Replace them if necessary, in compliance with the instructions in paragraph below.
- Demount and clean the driveline. Be sure to remove all foreign bodies from the sliding parts of the shaft.
- Cover the sliding parts with grease before remounting the driveline. Check that all nuts and bolts are fully tightened.

Every 250 hours service

- Change the oil in the gearbox. Consult paragraph below for the recommended type of oil. The following operations must be performed when carrying out the work required:
- Using a clean brush spread a film of grease on the surfaces of the sliding section. **(Fig 7.1)** Consult paragraph below for the recommended type of grease.
- Grease the journals until grease oozes



Cleaning & Greasing the Driveline

- Remove the splined parts.
- Using non-toxic and non-inflammable solvents, degrease the dirty parts, particularly the sliding grooved sections and universal couplings. Use non-toxic, non-inflammable solvents to prevent the risk of intoxication or fire

Check & Changing the Oil in the Gearbox

IMPORTANT: The used oil is a pollutant and must be disposed of correctly. Pour it into a suitable container and take it to the special oil collection points.

- Check the oil in the gearbox: Check the level of the lubricant through the plug “1”, the oil must reach the lower edge of the hole of level plug. **(Fig 7.2)**
- Changing the oil in the Gearbox: Change the first oil fill after the first 50 hours service. Following this, the oil should be changed after every 250 hours service. Consult below for the recommended type of oil.



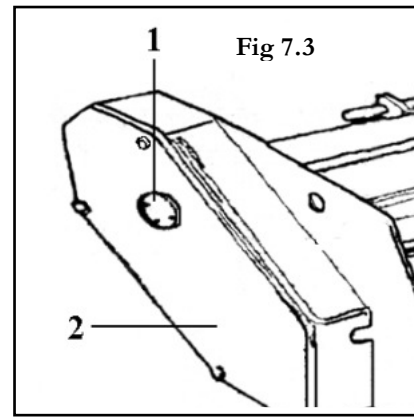
Checking the Belt Tension

Work should only be carried out on the transmission belts when the tractor has been turned off, the ignition key is not in the ignition, the parking break is in position and the drive has been disconnected. When possible, such operations should only be carried out after the shredder has been disconnected from the tractor.

The casing that protects the drive belts has an opening on certain models. This can be used to check the belt tension and is normally enclosed by a protective cover.

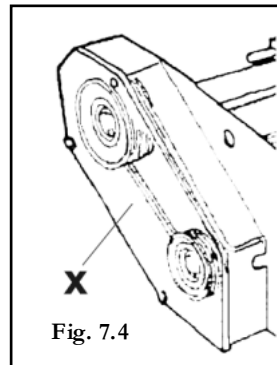
SECTION 7 – MAINTENANCE OF THE SHREDDER – (cont'd)

- Remove protective cover “1”. (**Fig 7.3**)
- Press down on the belts, exercising a pressure of about 8 - 10 kg (20 lbs).
- The give on each belt must be within about 6mm (1/4 inch) (fig. 7.8.1) If yielding is excessive, the belt tension must be adjusted (see paragraph below).
- On models without cover “1”, protective casing “2” must be demounted and the belt tension checked as previously described.
- Check the belt tension after the first 8 hours service. Following this, it should be checked after every 50 hours service in normal work conditions or after every 30 hours service in heavy duty conditions.

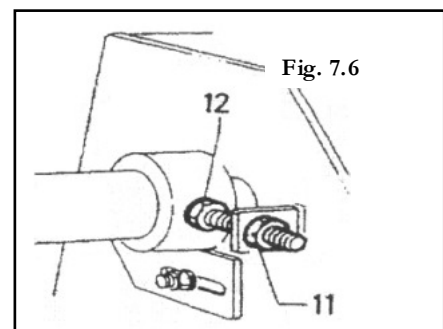
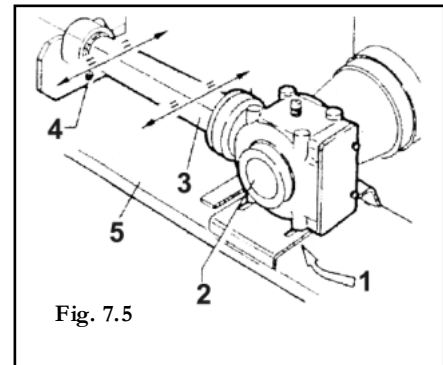


Adjusting the Belt Tension

- Demount the protective casing and check yielding “x” (**Fig. 7.4**) of each belt. Belt give must not exceed the values indicated in paragraph above. Proceed in the following way if belt give exceeds these values:



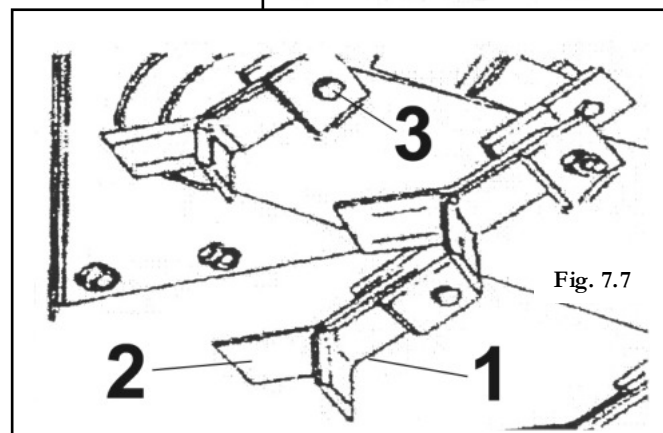
1. Slacken bolts “1” (**Fig. 7.5**) that fix the gearbox and bolt “4” that locks the chassis extension in place.
2. Release check nut “11” (**Fig 7.6**) of the belt tensioning screw.
3. Work on screw “12” until obtaining the right belt tension, then tighten the check nut again.
4. Shift the gearbox (**Fig 7.5**) “2” in the same direction and to the same extent in order to re-align extension tube “3” with chassis “5”.
5. Lock the bolts “1” fixing gearbox “2” to the chassis together with the bolt fixing extension “4”



Check & Replacing Knives & Hammers

Always disengage the PTO and switch off the tractor engine before approaching the knife. When worn, always replace the complete set of knives or hammers in order to prevent the implement from becoming unbalanced.

If one or more broken knives or hammers need replacing, e.g. knife number “1” in Fig. 7.7 always replace diametrically opposite knife or hammer as well, i.e. number “2”, in order to prevent the rotor from becoming unbalanced.



- 1 Set the implement at a convenient height and fix it to adequate supports so that the operator is able to work safely.
- 2 Slacken fixing bolt “3” and replace the knife or hammer.
- 3 Check the knife fixing screw and bushes (if installed) for wear. Replace them if necessary.
- 4 Check the rotation direction of the roller when remounting the knives or hammers. The knives are reversible, while the hammers must operate in a certain direction. Remount the new hammers in the same direction as the old ones.

SECTION 7 – MAINTENANCE OF THE SHREDDER – (cont'd)

Cleaning the Machine

IMPORTANT: When cleaning the machine, only use non-toxic, non-inflammable solvents with water cleaning machines. Wear accident prevention gear which is suitable for the task in hand, e.g. goggles, gloves and waterproof overalls.

Lubricant & Greasing Points – Fig. 7.8

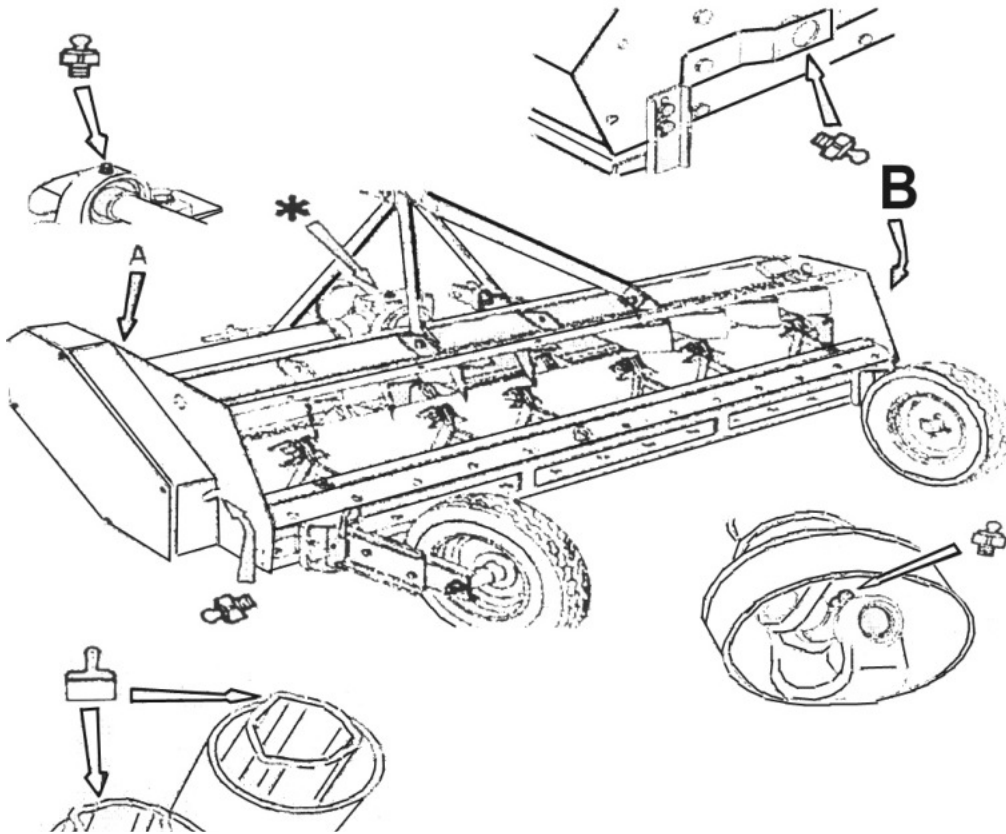


Table of Recommended Lubricants

	AGIP	ESSO	IP	SHELL
Gearbox Oil	ROTRA MP85W/140 BLASIA 460	GEAR OIL EP 320	MELLANA OIL 460	OMALA OIL 460
Hydraulic Oil	OSO 68 LH 46	NUTO H 68	IPHYDRUS Oil 68	TELLUS Oil 68
Grease	GREASE 30 GRUMU3	BEACOM E.P.3	ATNESIA GR3	SUPER GREASE R3

SECTION 7 – MAINTENANCE OF THE SHREDDER – (cont'd)

How to Store the Shredder for Long Periods

- Clean all dirt from the implement. Take particular care to remove any foreign bodies from the knives or hammers.
- Park the shredder on a flat surface, in a sheltered place inaccessible to either children or animals in a stable position to prevent it from moving (for this purpose it is advisable to stop the wheels with wedges or other suitable means), falling or being fitted over etc.
- When installed, use the relative parking foot and check that the implement stands on a firm floor surface or ground.
- Check that the weight of the machine is not too heavy for the surface on which it rests (consult the weight chart in this booklet)

Disposing of the Machine

When scrapping the machine, the procedure to adopt is as follows: remember that it is almost completely made of ferrous material. The only potentially polluting components on the machine are the lubricants. To prevent them from polluting the environment, spread a waterproof tarpaulin on the ground, position the machine on this and then drain out the lubricants which must be collected in suitable containers. Now dismantle the machine, separating the components in the following way:

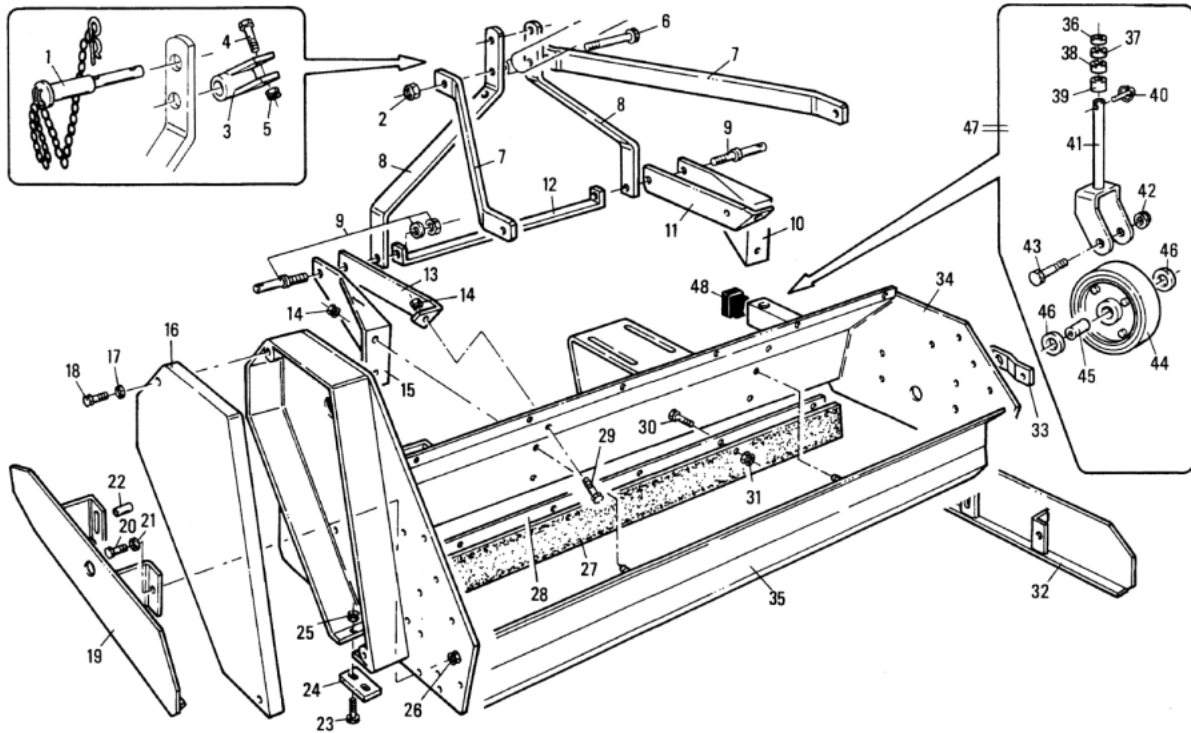
- Painted parts
- Ferrous parts
- Plastic parts
- Rubber parts

Contact those companies that are legally authorised to dispose of such materials.

SECTION 8 – PARTS LISTING

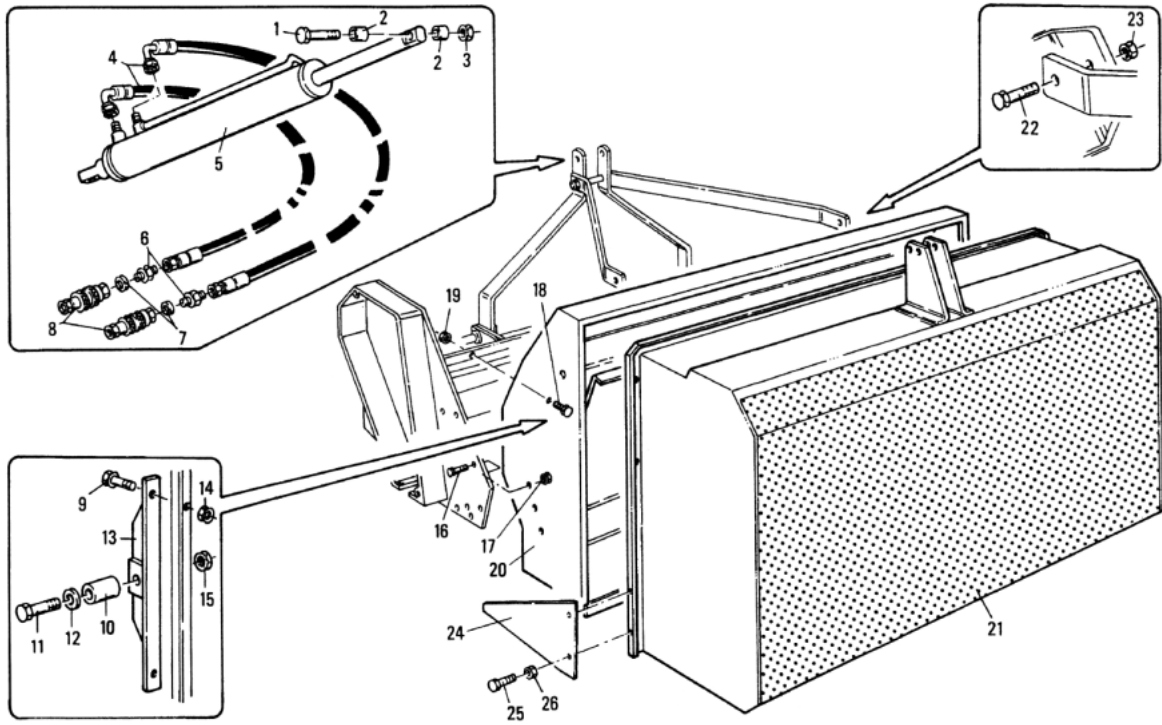
MT10

MT10 - KIT FOR FRAME



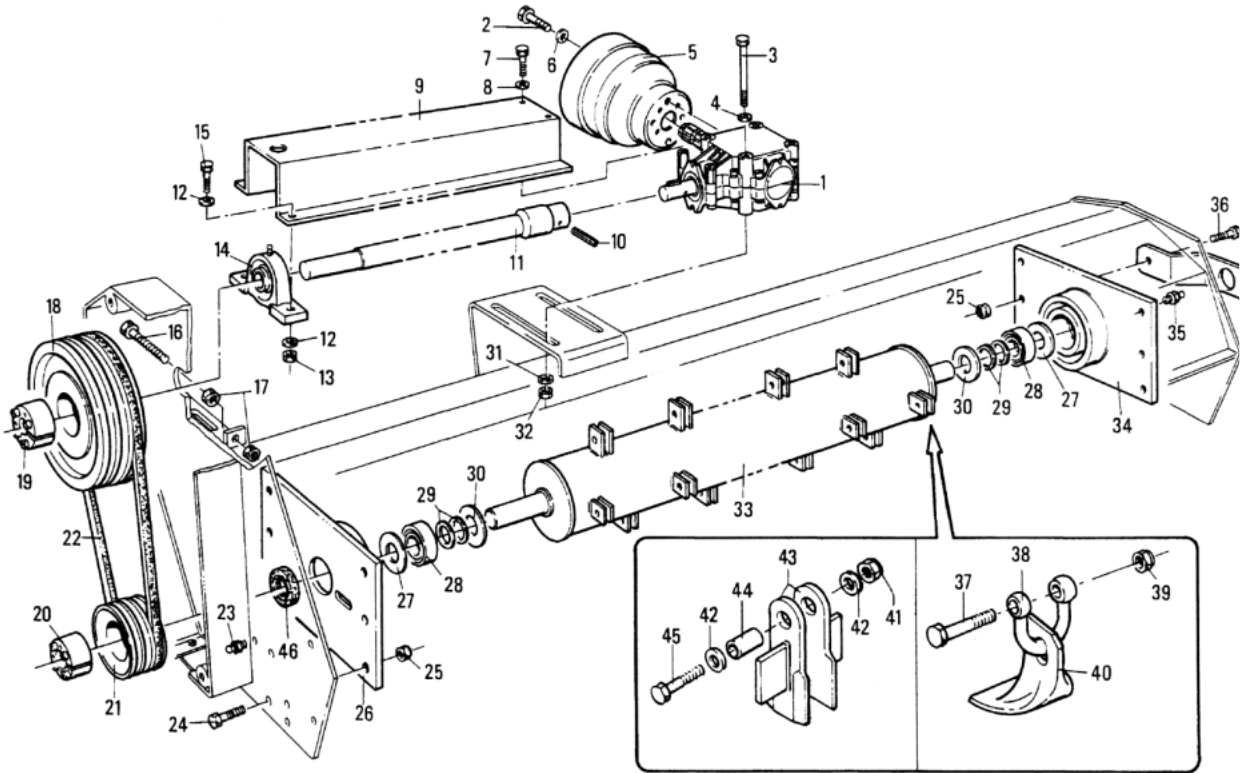
Item No	Description	Qty	MT10 155 Part No	Item No	Description	Qty	MT10 155 Part No
1	Pin	1	68062000	25	Nut	2	62010200
2	Nut	1	62010800	26	Nut	4	62010400
3	Yoke	1	40180200	27	Strap	1	68068000
4	Screw	1	60031400	28	Plate	1	30125700
5	Nut	1	62010800	29	Screw	2	60023000
6	Screw	2	60028600	30	Screw		60026900
7	Tierod	2	30084200	31	Nut		62010200
8	Tierod	2	30065401	32	Guard (RH)	1	40200200
9	Pin	2	68062500	33	Guard	1	30119900
10	Bracket (RH)	1	39168900	34	Frame	1	41090800
11	Hook (RH)	1	30119700	35	Reinforcement	1	40213100
12	Tierod	1	30139800	36	Spacer	4	32174600
13	Hook (LH)	1	30119800	37	Spacer	4	32174700
14	Nut	6	62010600	38	Spacer	2	32174900
15	Bracket (LH)	1	39169000	39	Spacer	2	32175000
16	Cover	1	39119500	40	Pin	2	64002500
17	Washer	2	61003500	41	Yoke	2	40234300
18	Screw	2	60021600	42	Nut	2	62010600
19	Guard (LH)	1	40200100	43	Screw	2	60033000
20	Screw	4	60023000	44	Wheel	2	68087600
21	Washer	4	61005000	45	Bushing	2	38023500
22	Bushing	4	31045000	46	Spacer	2	32174900
23	Screw	2	60015100	47	Wheel Assembly		45131800
24	Lock	1	39119400	48	Plug	2	68074400

MT10 – COLLECTOR



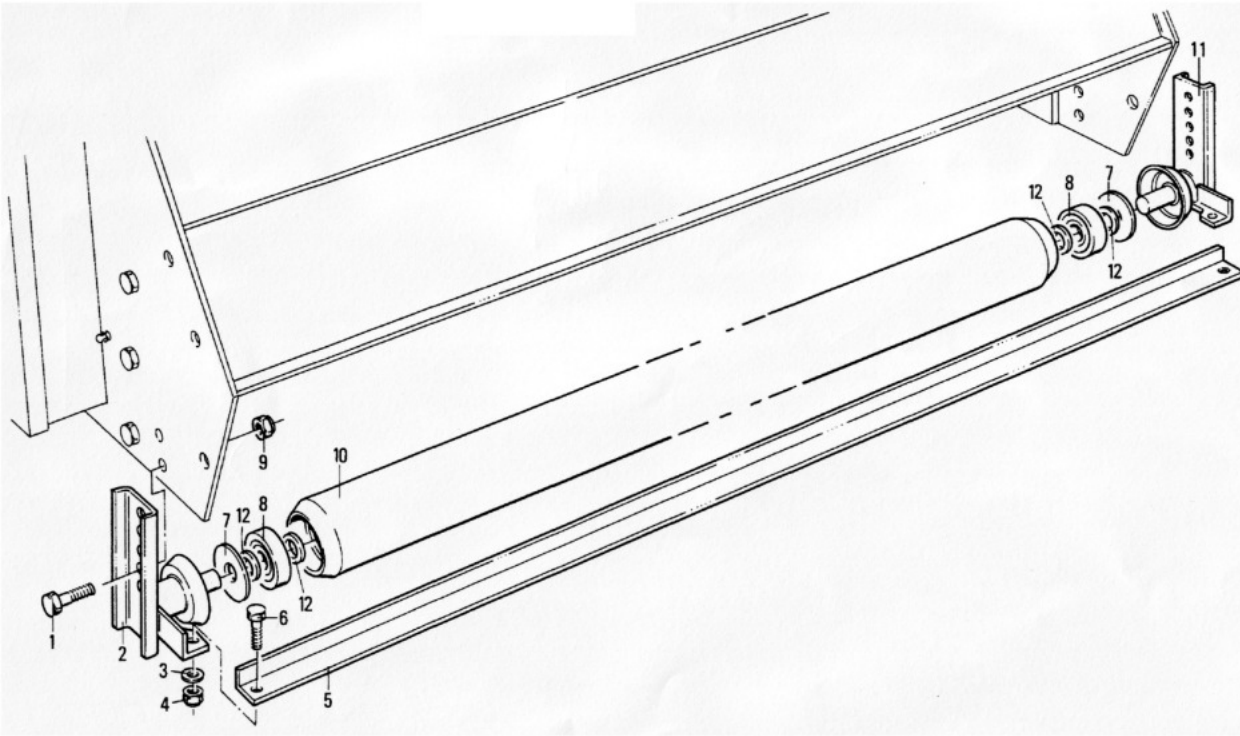
Item No	Description	Qty	MT10 155 Part No	Item No	Description	Qty	MT10 155 Part No
1	Pin	1	31059900	14	Nut	4	62010400
2	Spacer	2	32126700	15	Nut	2	62010600
3	Nut	1	62010800	16	Screw	10	60021600
4	Tube	2	68048300	17	Nut	10	62010400
5	Cylinder	1	68062600	18	Screw		60021600
6	Nipple	2	68048700	19	Nut		62010400
7	Washer	2	61005700	20	Frame	1	40160900
8	Quick Linkage	2	68043500	21	Grass Catcher	1	40160400
9	Screw	4	60021600	22	Screw	2	60023000
10	Spacer	2	32095700	23	Nut	2	62010600
11	Screw	2	60035500	24	Guard	2	39208200
12	Washer	2	61005000	25	Screw	4	60015100
13	Hinge	2	40182800	26	Nut	4	62010200

MT10 – KIT FOR THE ROTOR TRANSMISSION



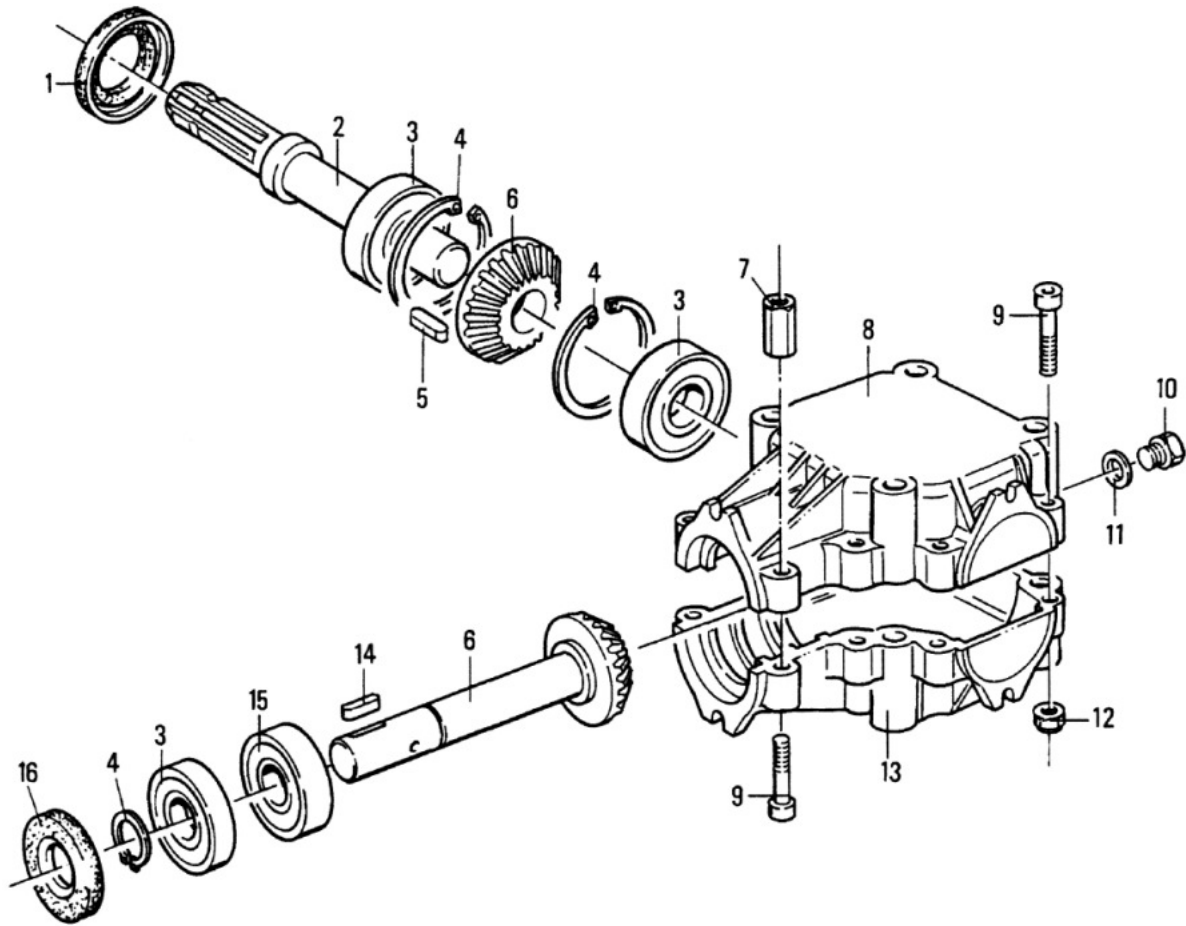
Item No	Description	Qty	MT10 155 Part No	Item No	Description	Qty	MT10 155 Part No
1A	Counterclockwise Gearbox	1	46030100	24	Screw	6	60020400
1B	Clockwise Gearbox	1	46030000	25	Nut	12	62010600
2	Screw	2	60024800	26	Support (LH)	1	40084700
3	Screw	4	60025600	27	Thickness	2	32068000
4	Washer	3	61004900	28	Bearing	2	67012900
5	Guard	1	68045200	29	Spacer		68068800
6	Washer	2	61006000	30	Disc	2	39091100
7	Screw	2	60015100	31	Washer	4	61004900
8	Washer	2	61004700	32	Nut	4	62010400
9	Guard	1	40266001	33	Rotor	1	42045600
10	Elastic Pin	1	64001200	34	Support (RH)	1	40084600
11	Extension	1	40228701	35	Grease Fitting	1	64001800
12	Washer	3	61005000	36	Screw	2	60023000
13	Nut	2	62010600	37	Screw		60007700
14	Support	1	67012600	38	U Bolt		68074000
15	Screw	2	60020900	39	Nut		62010800
16	Tierod	1	40161400	40	Knife		12015100
17	Nut	2	62007000	41	Nut		62010200
18	Pulley	1	68059100	42	Washer		61006200
19	Locking Device	1	68058900	43	"Verticut" Knife		12016600
20	Locking Device	1	68059000	44	Bushing		31067500
21	Pulley	1	68074100	45	Screw		60034400
22	Belt	3	68082000	46	Junt Ring		66014000
23	Grease Fitting	1	64000200				

MT10 – REAR ROLLER KIT



Item No	Description	Qty	MT10 155 Part No	Item No	Description	Qty	MT10 155 Part No
1	Screw	4	60017900	7	Disc	2	39091200
2	Support (LH)	1	40234700	8	Bearing	2	67008300
3	Washer	2	61004700	9	Nut	4	62010400
4	Nut	2	62010200	10	Rear Roller	1	42059300
5	Scraper	1	34012400	11	Support (RH)	1	42059300
6	Screw	2	60022800	12	Spacer	4	68028400

MT10 – GEARBOX KIT

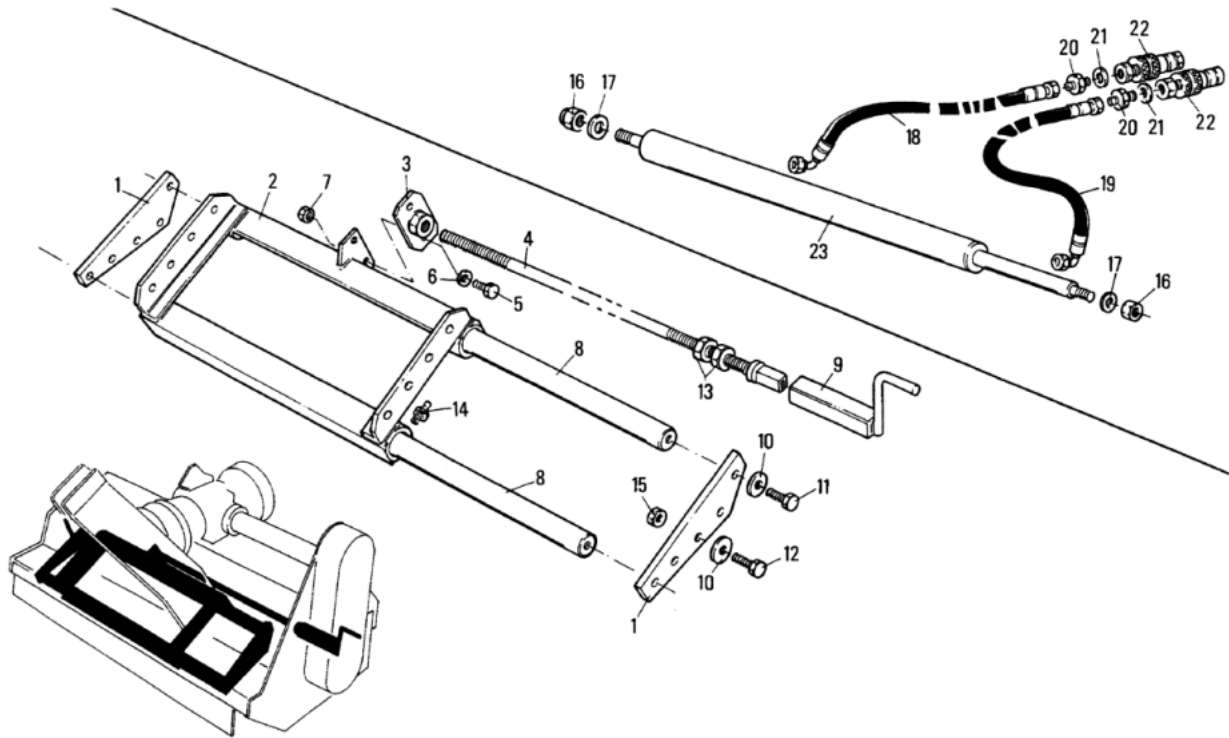


Item No	Description	Qty	MT10 155 Part No	Item No	Description	Qty	MT10 155 Part No
1	Junt Ring	1	66015400	9	Screw	8	60025000
2	Shaft	1	31068300	10	Plug	1	68051300
3	Bearing	3	67017600	11	Junt Ring	1	66011100
4	Snap Ring	3	63005700	12	Nut	8	62002900
5	Key	1	65002400	13	Half Case	1	03002900
6	Bevel Gear Pair	1	10038200	14	Key	1	65000900
7	Spacer	2	38018000	15	Bearing	1	67015700
8	Half Case	1	03002400	16	Junt Ring	1	66015500

SECTION 8 – PARTS LISTING

MT22

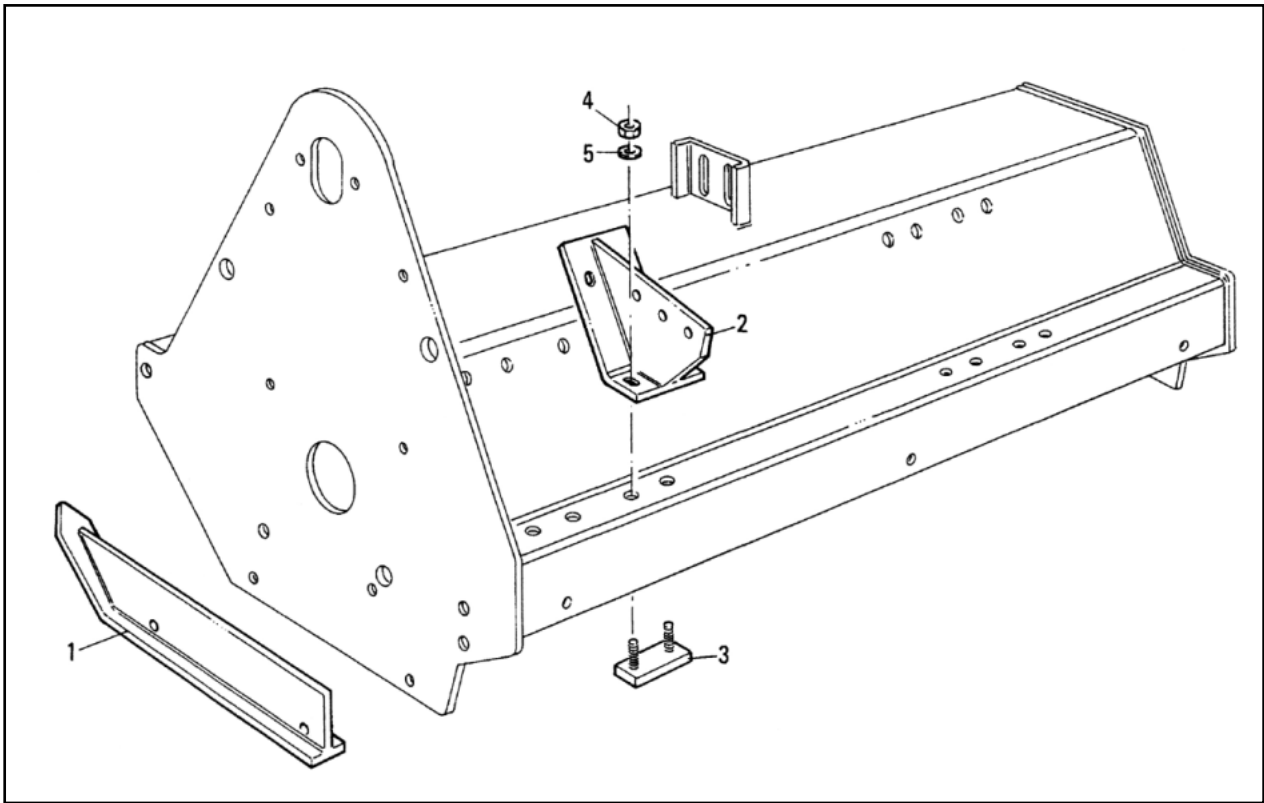
MT22 - CHOICE OF EQUIPMENT COMPLETING MACHINE – PART 1



Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
1	Support	2	39240200	39240200	39240200
2	Frame	1	40219900	40219900	40219900
3	Lead Nut	1	40119601	40119601	40119601
4	Screw	1	40121501	40121501	40121501
5	Screw	2	30036200	30036200	30036200
6	Washer	2	61004700	61004700	61004700
7	Nut	2	62010200	62010200	62010200
8	Bar	2	38023100	38023100	38023100
9	Crank	1	40121700	40121700	40121700
10	Washer	4	61004600	61004600	61004600
11	Screw	4	60026700	60026700	60026700
12	Screw	6	60026400	60026400	60026400

Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
13	Lead Nut	2	67012800	67012800	67012800
14	Grease Fitting	4	64001800	64001800	64001800
15	Nut	6	62010800	62010800	62010800
16	Nut	2	62011400	62011400	62011400
17	Washer	2	61005800	61005800	61005800
18	Tube	1	68048400	68048400	68048400
19	Tube	1	68048300	68048300	68048300
20	Nipple	2	68048700	68048700	68048700
21	Washer	2	61005700	61005700	61005700
22	Quick Linkage	2	68043500	68043500	68043500
23	Cylinder	1	68083800	68083800	68083800

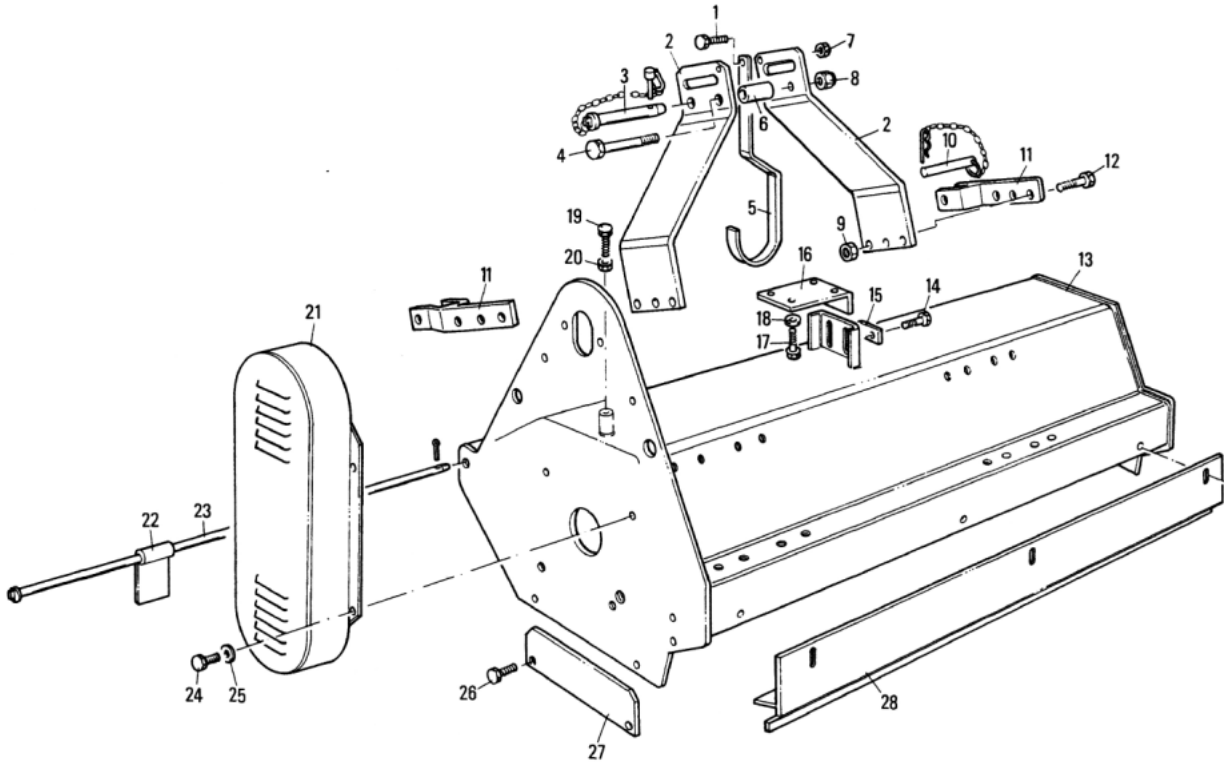
MT22 - CHOICE OF EQUIPMENT COMPLETING MACHINE – PART 2



Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
1	Skid	2	40219100	40219100	40219100
2	Bracket	2	40219400	40219400	40219400
3	Lock	2	40219601	40219601	40219601

Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
4	Nut	8	62010600	62010600	62010600
5	Washer	4	61005000	61005000	61005000
	Full Kit		MT0266	MT0266	MT0266

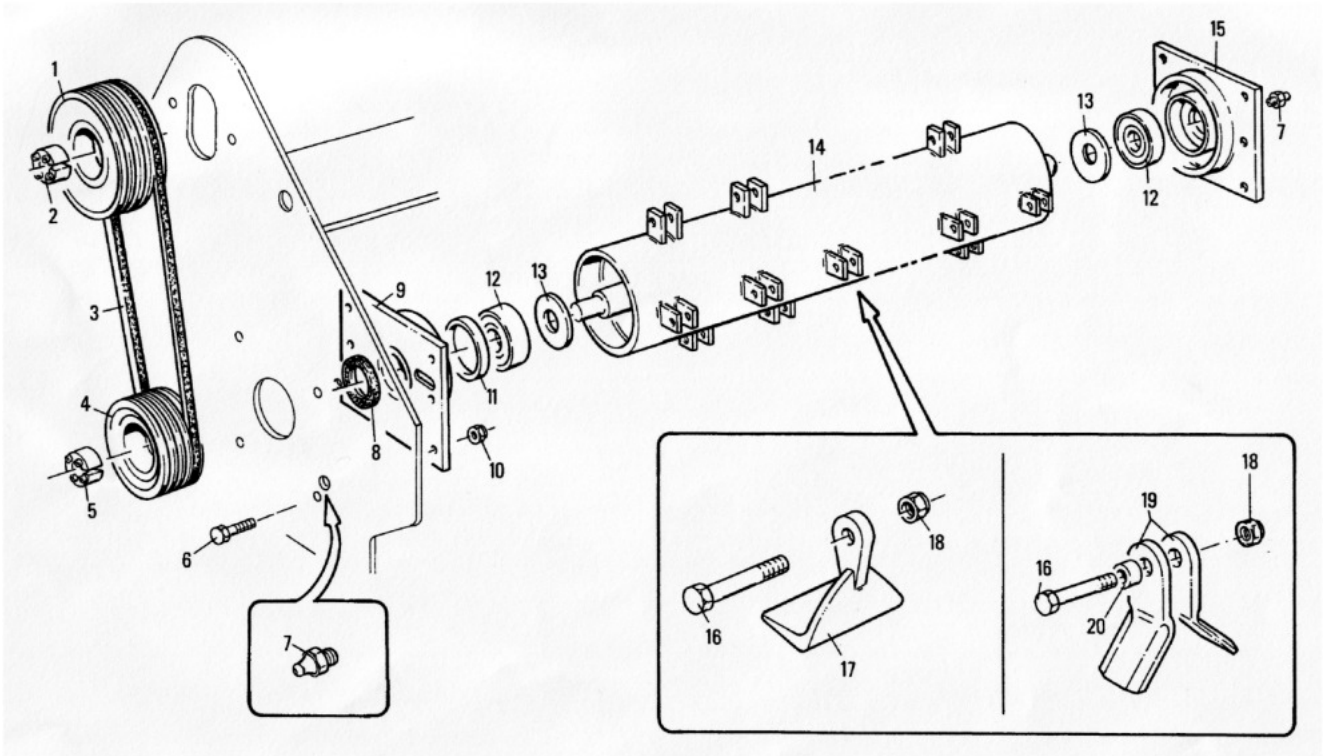
MT22 – FRAME



Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
1	Screw	1	60023800	60023800	60023800
2	Arcade	2	30173400	30173400	30173400
3	Pin	1	68062000	68062000	68062000
4	Screw	1	60035200	60035200	60035200
5	Hook	1	40154000	40154000	40154000
6	Bushing	1	32166100	32166100	32166100
7	Nut	1	62010200	62010200	62010200
8	Nut	1	62011200	62011200	62011200
9	Nut	6	62010800	62010800	62010800
10	Pin	2	68062300	68062300	68062300
11	Arm	2	40218900	40218900	40218900
12	Screw	6	60023300	60023300	60023300
13	Frame	1	41104700	41104900	41105100
14	Screw	2	60021200	60021200	60021200
15	Fixing	1	30175300	30175300	30175300
16	Support	1	40219700	40219700	40219700
17	Screw	4	60023000	60023000	60023000

Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
18	Washer	4	61007500	61007500	61007500
19	Screw	1	60036700	60036700	60036700
20	Nut	1	62009100	62009100	62009100
21	Cover	1	40219000	40219000	40219000
22	Strap L=70		39128400	39128400	39128400
22	Strap L=45		39164300	39164300	39164300
22	Strap L=35		39164200	39164200	39164200
22	Strap L=25		39164100	39164100	39164100
22	Chain		68068600	68068600	68068600
23	Rod	1	31075100	31075300	31075500
24	Screw	4	60022800	60022800	60022800
25	Washer	4	61006200	61006200	61006200
26	Screw	2	60023000	60023000	60023000
27	Lock	1	39238900	39238900	39238900
28	Scraper	1	40221200	40221400	40221600
29	Screw	3	60023000	60023000	60023000
30	Washer	3	61007500	61007500	61007500

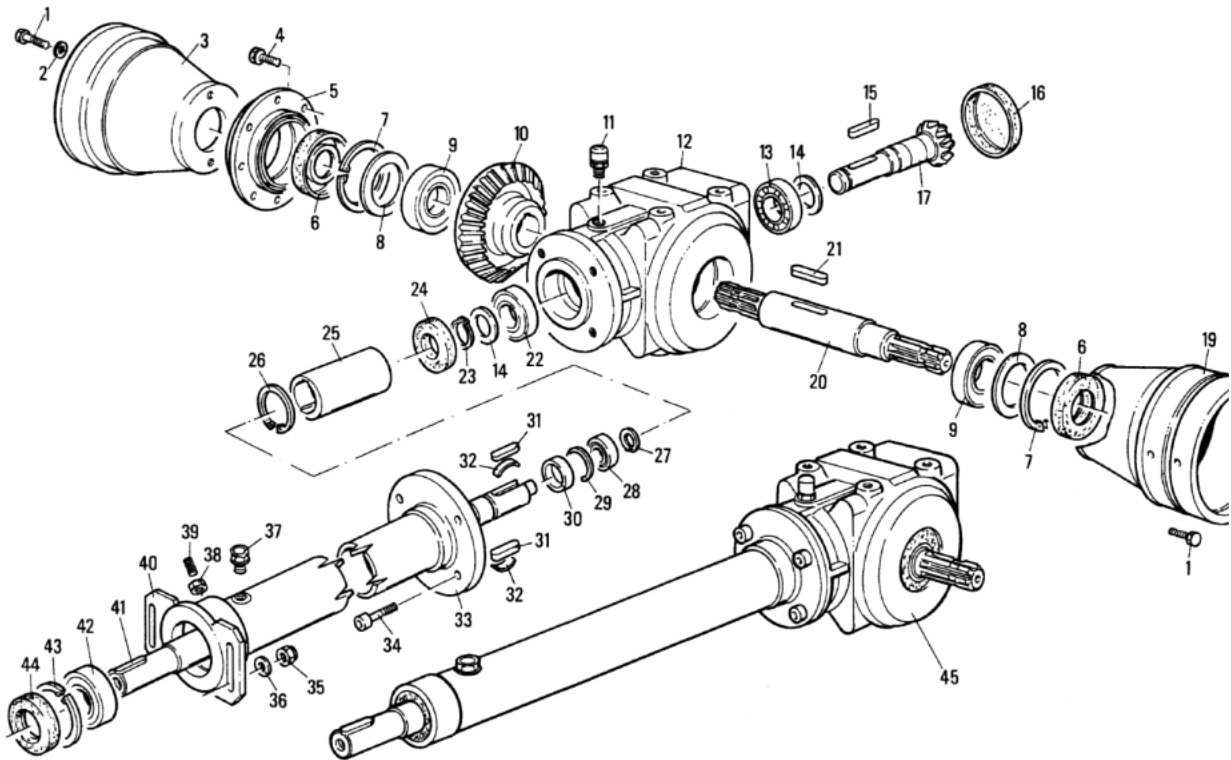
MT22 – ROTOR



Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
1	Pulley	1	68059600	68059600	68059600
2	Locking Device	1	68084100	68084100	68084100
3	Belt	3	68084900	68084900	68084900
4	Pulley	1	68079300	68079300	68079300
5	Locking Device	1	68059500	68059500	68059500
6	Screw	8	60026700	60026700	60026700
7	Grease Fitting	2	64001800	64001800	64001800
8	Junt Ring	1	66014100	66014100	66014100
9	Support (LH)	1	40218600	40218600	40218600
10	Nut	8	62010800	62010800	62010800

Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
11	Spacer	1	68011000	68011000	68011000
12	Bearing	2	67018200	67018200	67018200
13	Guard	2	39237400	39237400	39237400
14	Rotor	1	42064300	42064500	42064700
15	Support (RH)	1	40218500	40218500	40218500
16	Screw		60003500	60003500	60003500
17	Hammer		12014400	12014400	12014400
18	Nut		62010800	62010800	62010800
19	Knife		12007800	12007800	12007800
20	Bushing		32065800	32065800	32065800

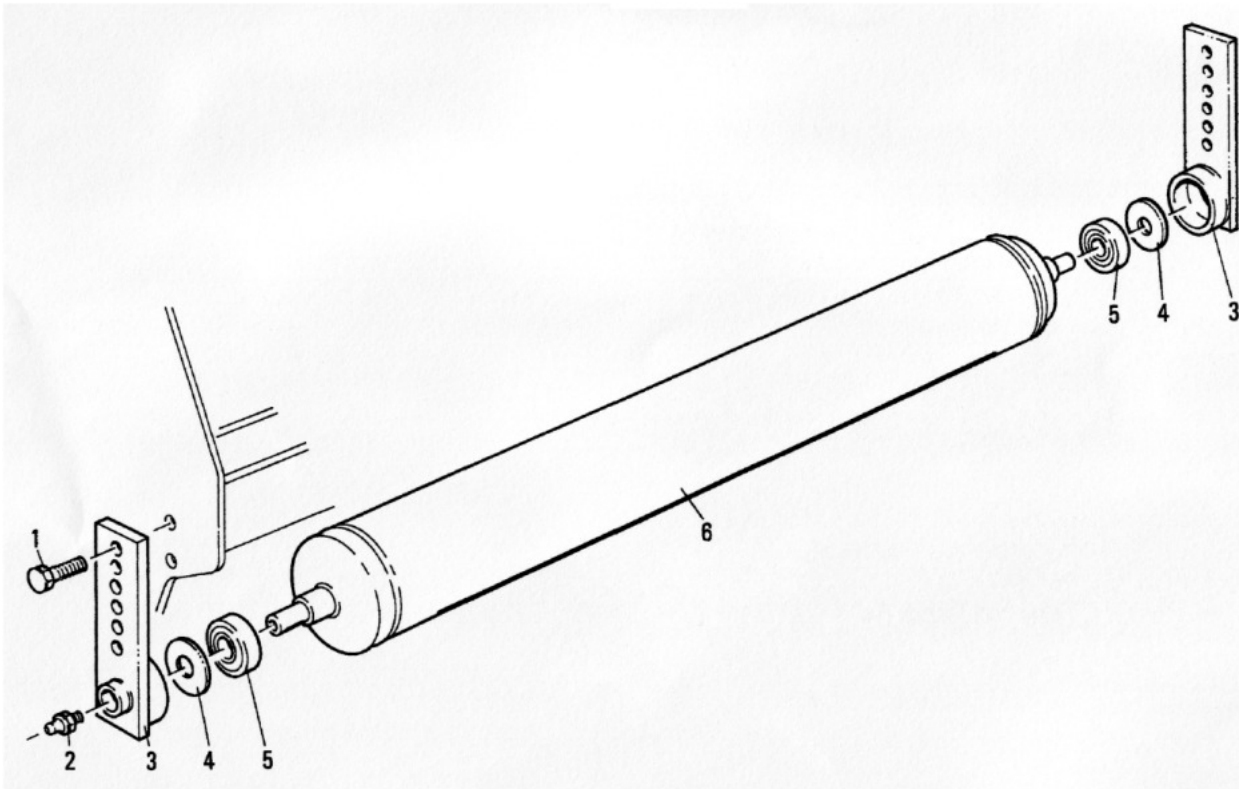
MT22 – GEARBOX



Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
1	Screw	6	60015100	60015100	60015100
2	Washer	6	61006200	61006200	61006200
3	Guard	1	68061501	68061501	68061501
4	Screw	8	60021600	60021600	60021600
5	Cover	1	01017500	01017500	01017500
6	Junt Ring	2	66009200	66009200	66009200
7	Snap Ring	2	63000200	63000200	63000200
8	Spacer	2	68075500	68075500	68075500
9	Bearing	2	67004400	67004400	67004400
10	Crown	1	10040400	10040400	10040400
11	Plug	1	68085600	68085600	68085600
12	Gearbox	1	01017400	01017400	01017400
13	Bearing	1	67000300	67000300	67000300
14	Spacer	2	68053200	68053200	68053200
15	Key	1	65000500	65000500	65000500
16	Cap Nut	1	68067300	68067300	68067300
17	Shaft	1	10040500	10040500	10040500
18	Gripping	1	68090000	68090000	68090000
19	Guard	1	68074300	68074300	68074300
20	Shaft	1	31076900	31076900	31076900
21	Key	1	65002500	65002500	65002500
22	Bearing	1	67003700	67003700	67003700
23	Snap Ring	1	63005000	63005000	63005000

Item No	Description	Qty	MT22 105 Part No	MT22 140 Part No	MT22 170 Part No
24	Junt Ring	1	66001500	66001500	66001500
25	Bushing	1	32171600	32171600	32171600
26	Snap Ring	1	63006000	63006000	63006000
27	Snap Ring	1	63001600	63001600	63001600
28	Bearing	1	67018300	67018300	67018300
29	Snap Ring	1	63006100	63006100	63006100
30	Spacer	1	32171700	32171700	32171700
31	Key	2	65002600	65002600	65002600
32	Spring	2	68085400	68085400	68085400
33	Tube	1	40228300	40228300	40228400
34	Screw	4	60003800	60003800	60003800
35	Nut	2	62010600	62010600	62010600
36	Washer	2	61005000	61005000	61005000
37	Plug	3	68008700	68008700	68008700
38	Nut	2	62007200	62007200	62007200
39	Screw	2	60032200	60032200	60032200
40	Support	1	40219800	40219800	40219800
41	Shaft	1	31077000	31077000	31077100
42	Bearing	1	67003700	67003700	67003700
43	Snap Ring	1	63000300	63000300	63000300
44	Junt Ring	1	66014800	66014800	66014800
45	Complete Gearbox	1	46031700	46031700	46031900

MT22 – REAR ROLLER



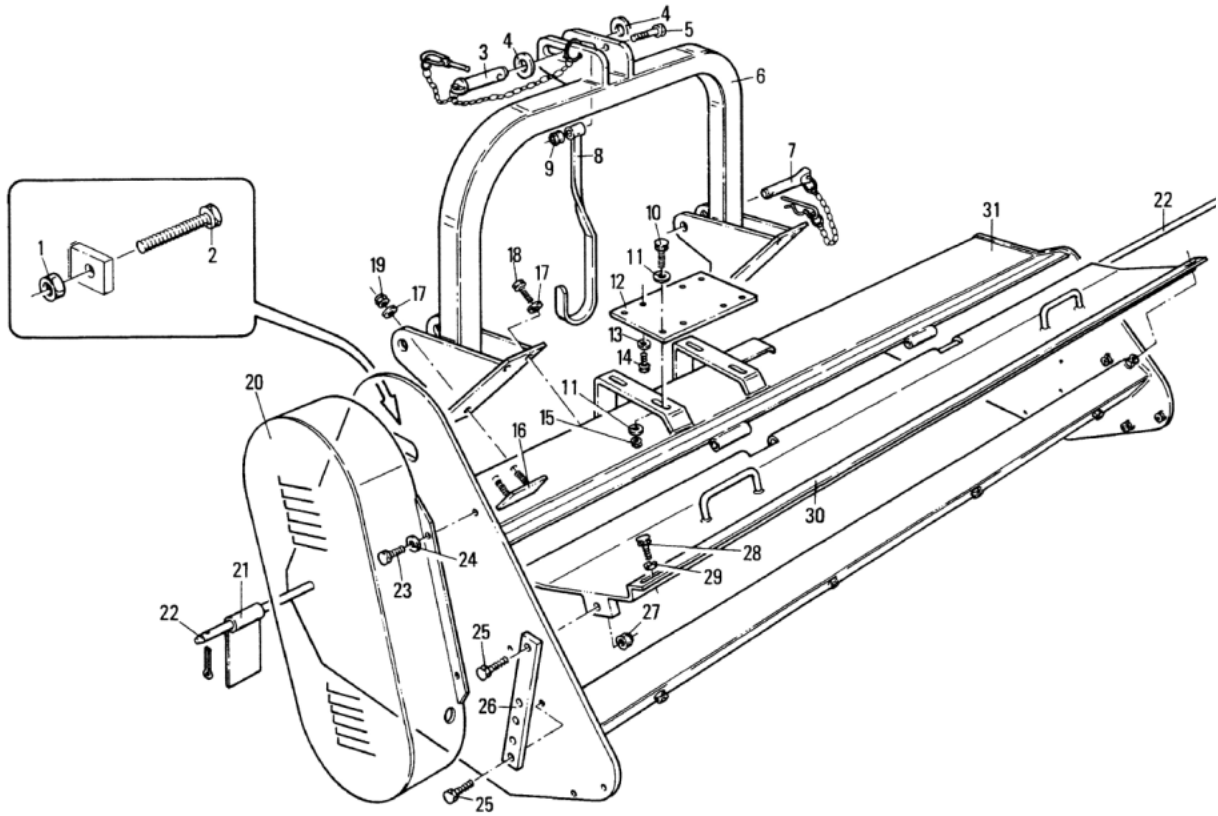
Item No	Description	Qty	MT22 105Y Part No	MT22 140 Part No	MT22 170Y Part No
1	Screw	4	60221200	60221200	60221200
2	Grease Fitting	2	64001800	64001800	64001800
3	Support	2	40218700	40218700	40218700

Item No	Description	Qty	MT22 105Y Part No	MT22 140 Part No	MT22 170Y Part No
4	Guard	2	39200500	39200500	39200500
5	Bearing	2	67018100	67018100	67018100
6	Rear Roller	1	42065000	42065200	42065400

SECTION 8 – PARTS LISTING

MT24

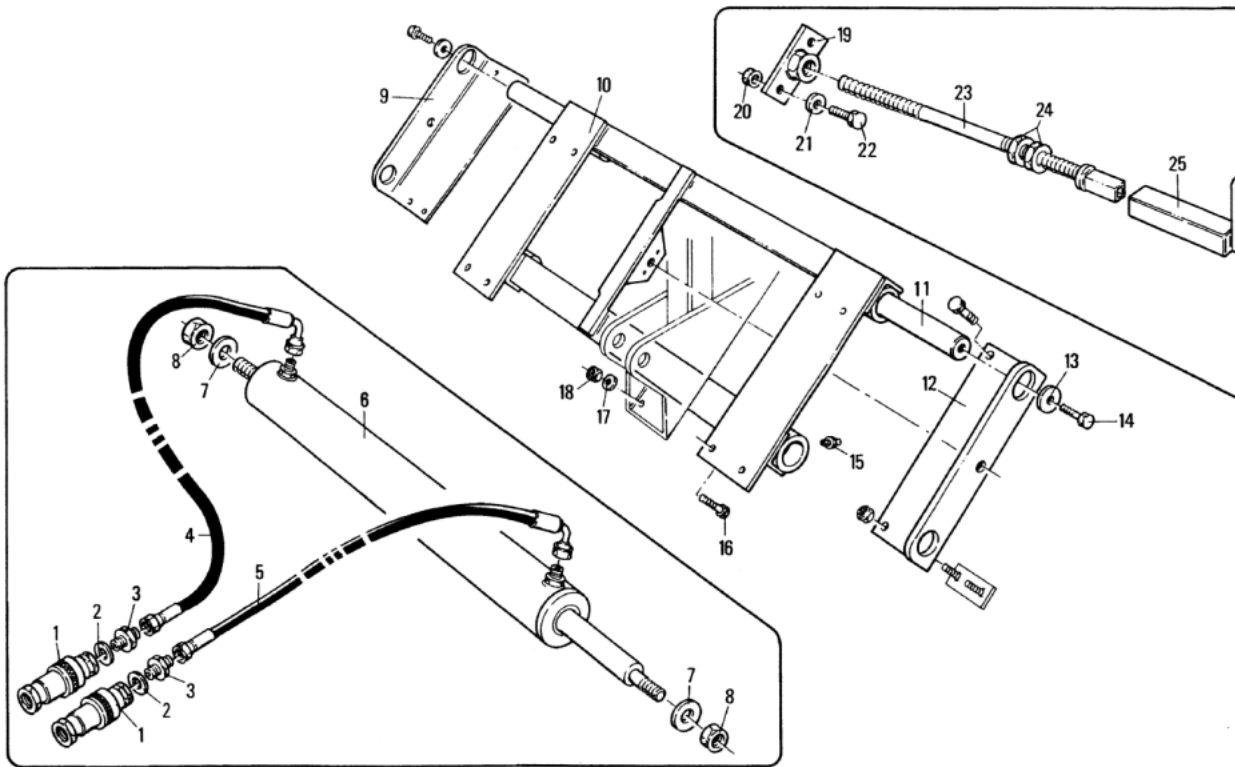
MT24 – KIT FOR FRAME



Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
1	Nut	2	62008700	62008700	62008700
2	Screw	1	60037100	60037100	60037100
3	Pin	1	68062100	68062100	68062100
4	Washer	1	61009100	61009100	61009100
5	Screw	1	60023800	60023800	60023800
6	Attachment	1	40226700	40226700	40226700
7	Pin	2	68062400	68062400	68062400
8	Hook	1	40154000	40154000	40154000
9	Nut	1	62010200	62010200	62010200
10	Screw	4	60026400	60026400	60026400
11	Washer	8	61009500	61009500	61009500
12	Support	1	30177800	30177800	30177800
13	Washer	4	61001400	61001400	61001400
14	Screw	4	60001400	60001400	60001400
15	Nut	4	62010800	62010800	62010800
16	Counterflange	2	40226800	40226800	40226800

Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
17	Washer	8	61006600	61006600	61006600
18	Screw	4	60023200	60023200	60023200
19	Nut	4	62010800	62010800	62010800
20	Cover	1	40215600	40215600	40215600
21	Strap		39128400	39128400	39128400
21	Chains		68068600	68068600	68068600
22	Rod	2	31068800	31074500	31074600
23	Screw	4	60026900	60026900	60026900
24	Washer	4	61006200	61006200	61006200
25	Screw	4	60023200	60023200	60023200
26	Governor	2	40281500	40281500	40281500
27	Nut	2	62010800	62010800	62010800
28	Screw		60011400	60011400	60011400
29	Washer		61009500	61009500	61009500
30	Hood	1	41110100	41110200	41110300
31	Frame	1	41110700	41110800	41110900

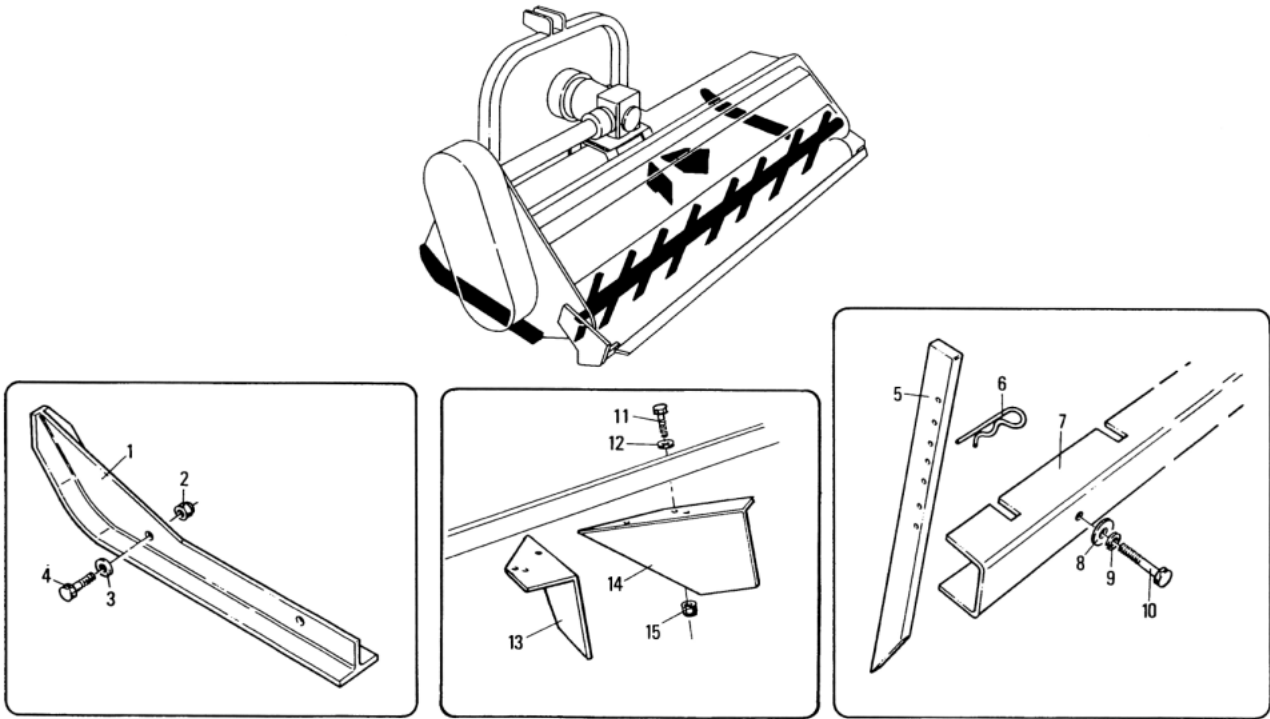
MT24 – CHOICE OF EQUIPMENT COMPLETING MACHINE – PART 1



Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
1	Quick Linkage	2	68043500	68043500	68043500
2	Washer	2	61005700	61005700	61005700
3	Nipple	2	68048700	68048700	68048700
4	Tube	1	68048400	68048400	68048400
5	Tube	1	68048300	68048300	68048300
6	Cylinder	1	68082800	68082800	68082800
7	Washer	2	61005800	61005800	61005800
8	Nut	2	62008300	62008300	62008300
9	Bracket (RH)	1	39250800	39250800	39250800
10	Frame	1	40227300	40227300	40227300
11	Bar	2	38023300	38023300	38023300
12	Bracket (LH)	1	39250700	39250700	39250700
13	Washer	4	39113900	39113900	39113900

Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
14	Screw	4	60026700	60026700	60026700
15	Grease Fitting	4	64001800	64001800	64001800
16	Screw	8	60026400	60026400	60026400
17	Washer	8	61006600	61006600	61006600
18	Nut	8	62010800	62010800	62010800
19	Lead Nut	1	40246800	40246800	40246800
20	Nut	2	62010200	62010200	62010200
21	Washer	2	61004700	61004700	61004700
22	Screw	2	60036200	60036200	60036200
23	Screw	1	40247100	40247100	40247100
24	Lead Nut	2	62014700	62014700	62014700
25	Crank	1	40121700	40121700	40121700

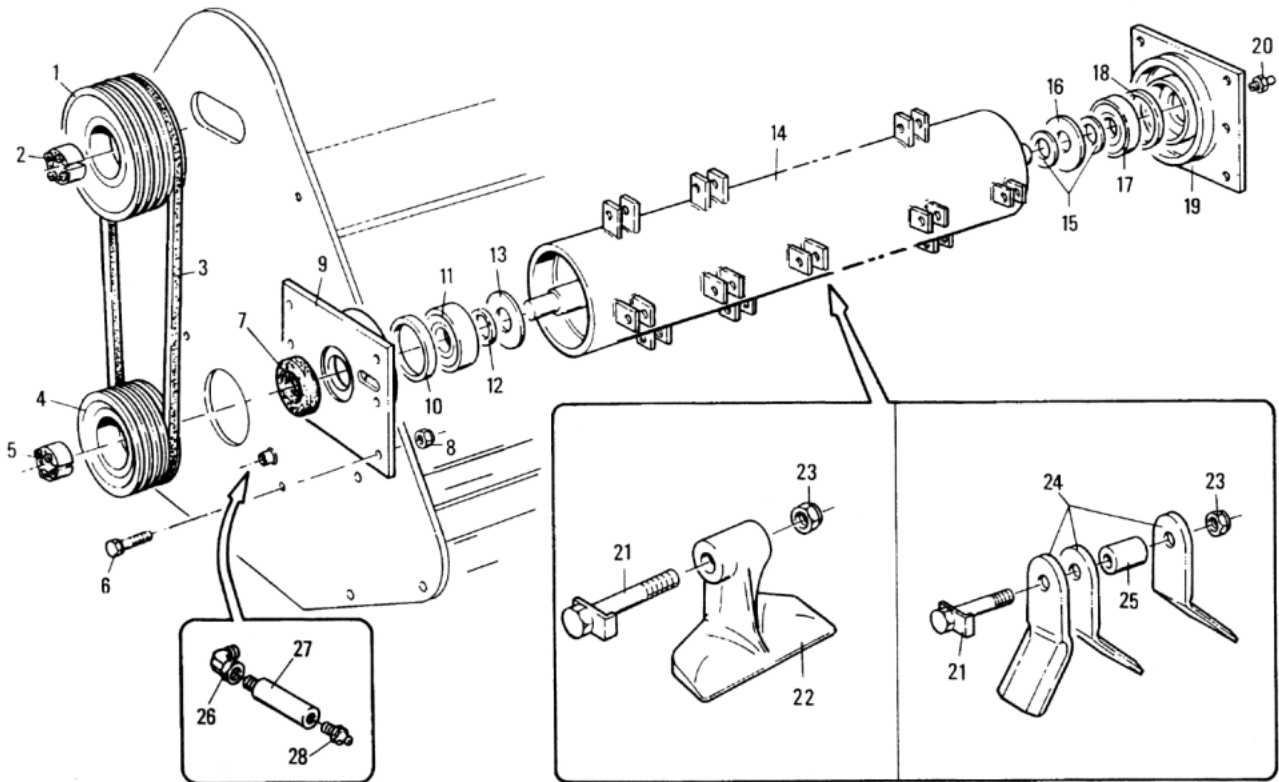
MT24 – CHOICE OF EQUIPMENT COMPLETING MACHINE – PART 2



Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
1	Skid	2	40231200	40231200	40231200
2	Nut	4	62010800	62010800	62010800
3	Washer	4	61006600	61006600	61006600
4	Screw	2	60023200	60023200	60023200
5	Rod		30178000	30178000	30178000
6	Cotter Pin		64000300	64000300	64000300
7	Support	1	39248600	39248700	39248800
8	Washer		61009500	61009500	61009500

Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
9	Washer		61006700	61006700	61006700
10	Screw		60023300	60023300	60023300
11	Screw		60017900	60017900	60017900
12	Washer		61004900	61004900	61004900
13	Spreader Vane (LH)		39131100	39131100	39131100
14	Nut		62010400	62010400	62010400
15	Spreader Vane (RH)		39131200	39131200	39131200

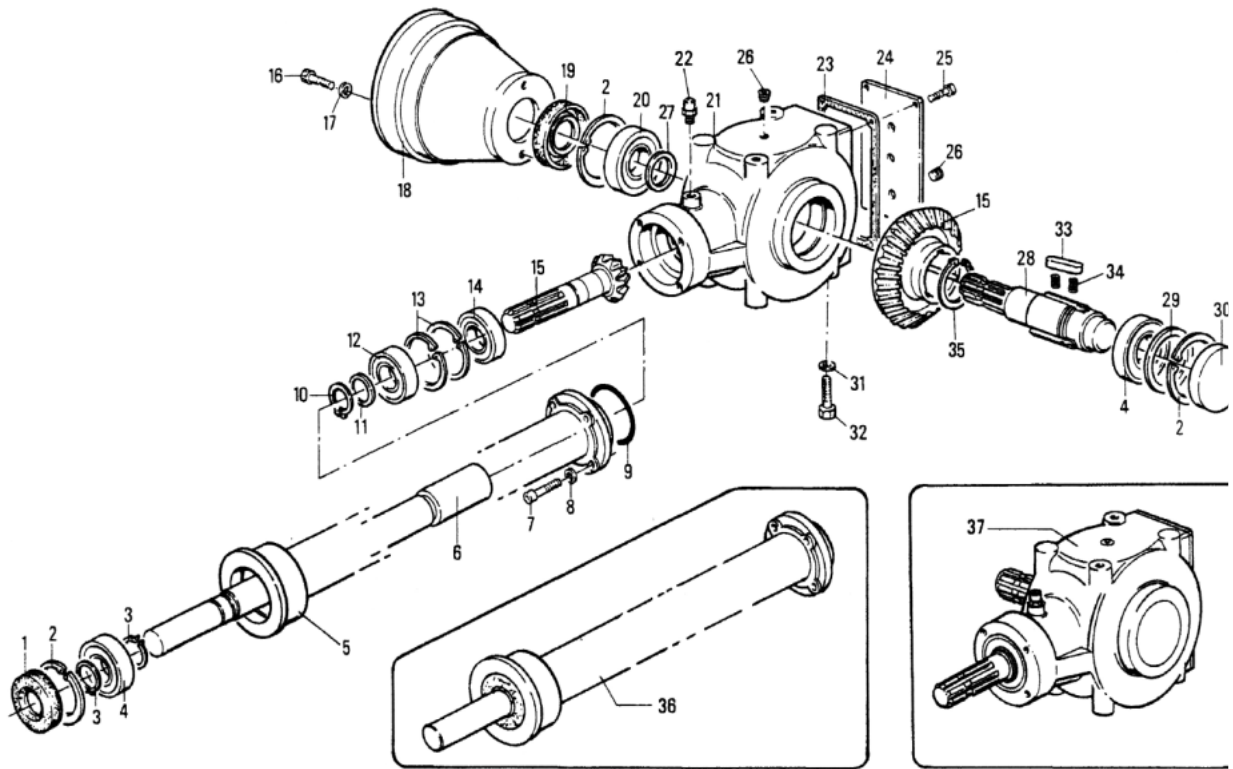
MT24 – KIT FOR ROTOR



Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
1	Pulley	1	68060400	68060400	68060400
2	Locking Device	1	68060300	68060300	68060300
3	Belt		68083300	68083300	68083300
4	Pulley	1	68060100	68060100	68060100
5	Locking Device	1	68060000	68060000	68060000
6	Screw	12	60026700	60026700	60026700
7	Junct ring	1	66014200	66014200	66014200
8	Nut	12	62010800	62010800	62010800
9	Support (LH)	1	40228900	40228900	40228900
10	Spacer (LH)	1	32097500	32097500	32097500
11	Bearing	1	67018700	67018700	67018700
12	Spacer		68011200	68011200	68011200
13	Guard (LH)	1	39129000	39129000	39129000
14	Rotor	1	42048402	42067100	42067200

Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
15	Spacer		68011000	68011000	68011000
16	Guard (RH)	1	39129100	39129100	39129100
17	Bearing	1	67014500	67014500	67014500
18	Spacer (RH)	1	32097600	32097600	32097600
19	Support (RH)	1	40228800	40228800	40228800
20	Grease fitting	1	64001800	64001800	64001800
21	Screw		60026600	60026600	60026600
22	Hammer		12014100	12014100	12014100
23	Nut		62011400	62011400	62011400
24	Universal knife		12007800	12007800	12007800
25	Spacer		32068500	32068500	32068500
26	Connection	1	68085900	68085900	68085900
27	Extension	1	32170500	32170500	32170500
28	Grease fitting	1	64001800	64001800	64001800

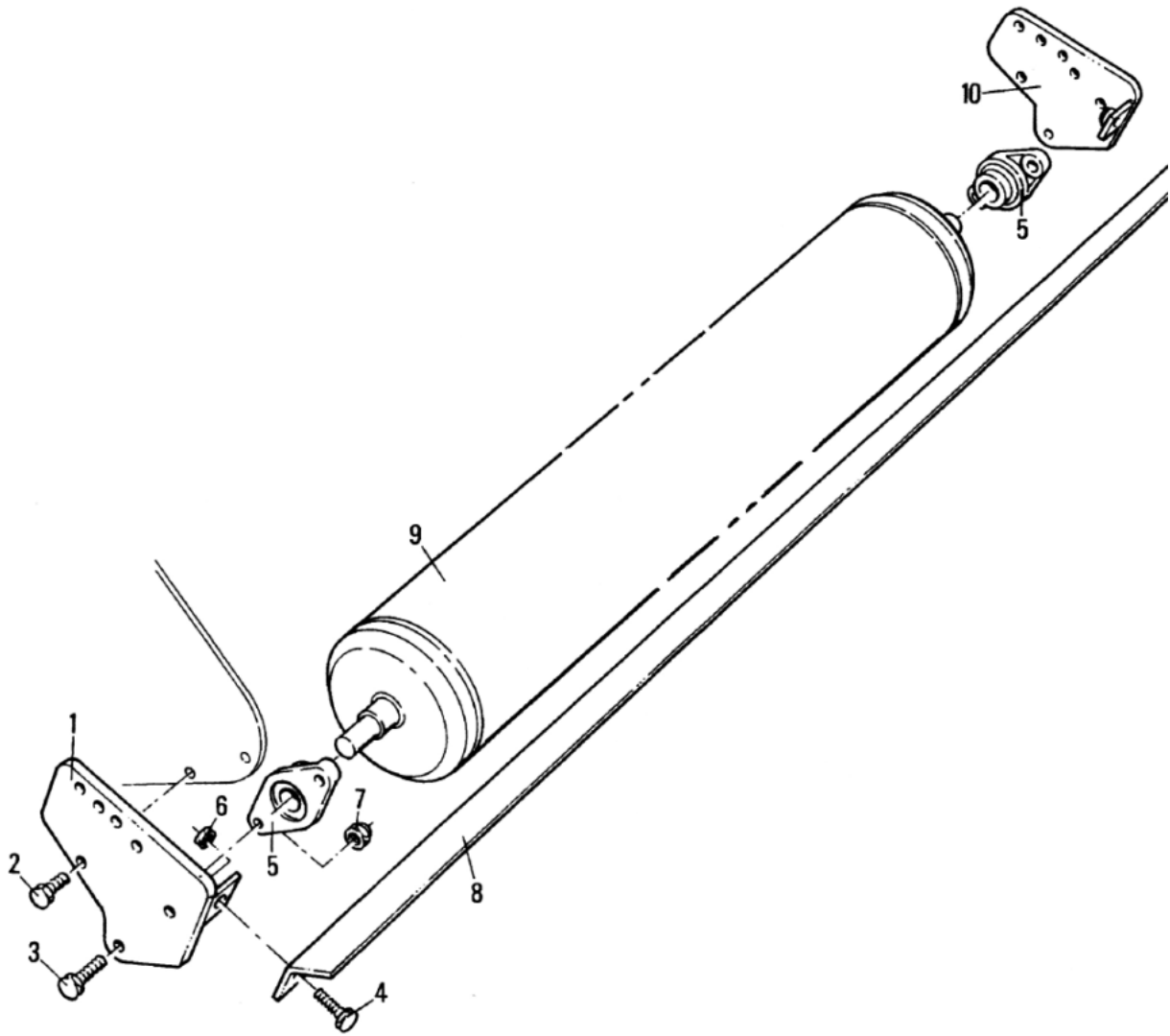
MT24 – KIT FOR GEARBOX



Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
1	Junt ring	1	66009200	66009200	66009200
2	Snap-ring	3	63000200	63000200	63000200
3	Snap-ring	2	63000700	63000700	63000700
4	Bearing	2	67004400	67004400	67004400
5	Tube	1	40166000	40166100	40166100
6	Shaft	1	31061200	31061300	31061300
7	Screw	4	60031700	60031700	60031700
8	Washer	4	61000400	61000400	61000400
9	Junt ring	1	66013100	66013100	66013100
10	Snap-ring	1	63000600	63000600	63000600
11	Thickness		68010200	68010200	68010200
12	Bearing	1	67003700	67003700	67003700
13	Snap-ring	2	63000300	63000300	63000300
14	Bearing	1	67000300	67000300	67000300
15	Bevel gear pair	1	10040900	10040900	10040900
16	Screw	4	60021600	60021600	60021600
17	Washer	4	61007900	61007900	61007900
18	Guard	1	68061500	68061500	68061500
19	Junt ring	1	66014900	66014900	66014900

Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
20	Bearing	1	67005200	67005200	67005200
21	Gearbox	1	01014400	01014400	01014400
22	Plug	1	68067500	68067500	68067500
23	Seal	1	80013300	80013300	80013300
24	Cover	1	03001600	03001600	03001600
25	Screw	4	60022800	60022800	60022800
26	Plug	3	68008700	68008700	68008700
27	Spacer	1	32175600	32175600	32175600
28	Shaft	1	31078800	31078800	31078800
29	Thickness	1	68067100	68067100	68067100
30	Cap nut	1	68067300	68067300	68067300
31	Washer	4	61002300	61002300	61002300
32	Screw	4	60023000	60023000	60023000
33	Key	1	65002700	65002700	65002700
34	Spring	2	68087200	68087200	68087200
35	Snap-ring	1	63001300	63001300	63001300
36	Extension	1	45111000	45111100	45111100
37	Gearbox	1	46034300	46034300	46034300

MT24 – KIT FOR REAR ROLLER



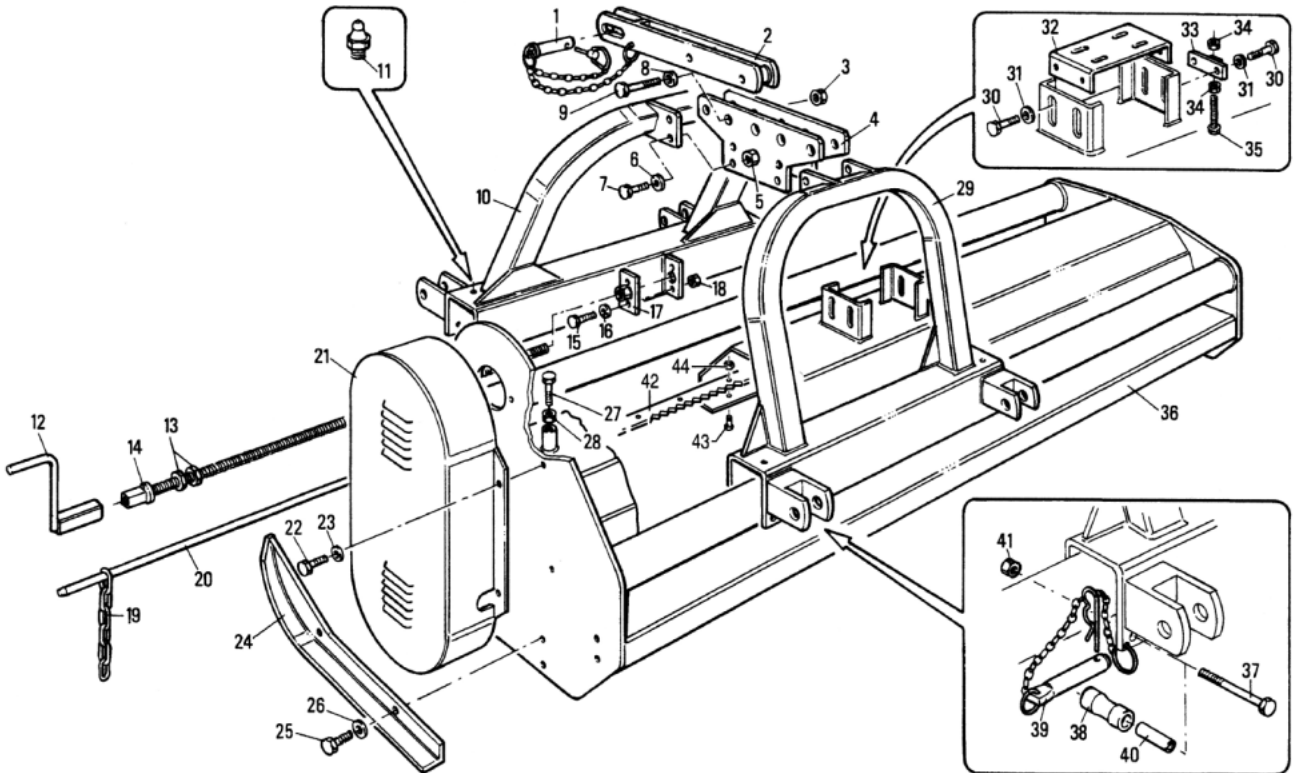
Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
1	Support (LH)	1	40226900	40226900	40226900
2	Screw	4	60023200	60023200	60023200
3	Screw	4	60028200	60028200	60028200
4	Screw	2	60023500	60023500	60023500
5	Support	2	67001000	67001000	67001000

Item No	Description	Qty	MT24 230 Part No	MT24 250 Part No	MT24 280 Part No
6	Nut	2	62010400	62010400	62010400
7	Nut	4	62010600	62010600	62010600
8	Scraper	1	34026200	34026300	34026400
9	Rear roller	1	42066300	42066400	42066500
10	Support (RH)	1	40227000	40227000	40227000

SECTION 8 – PARTS LISTING

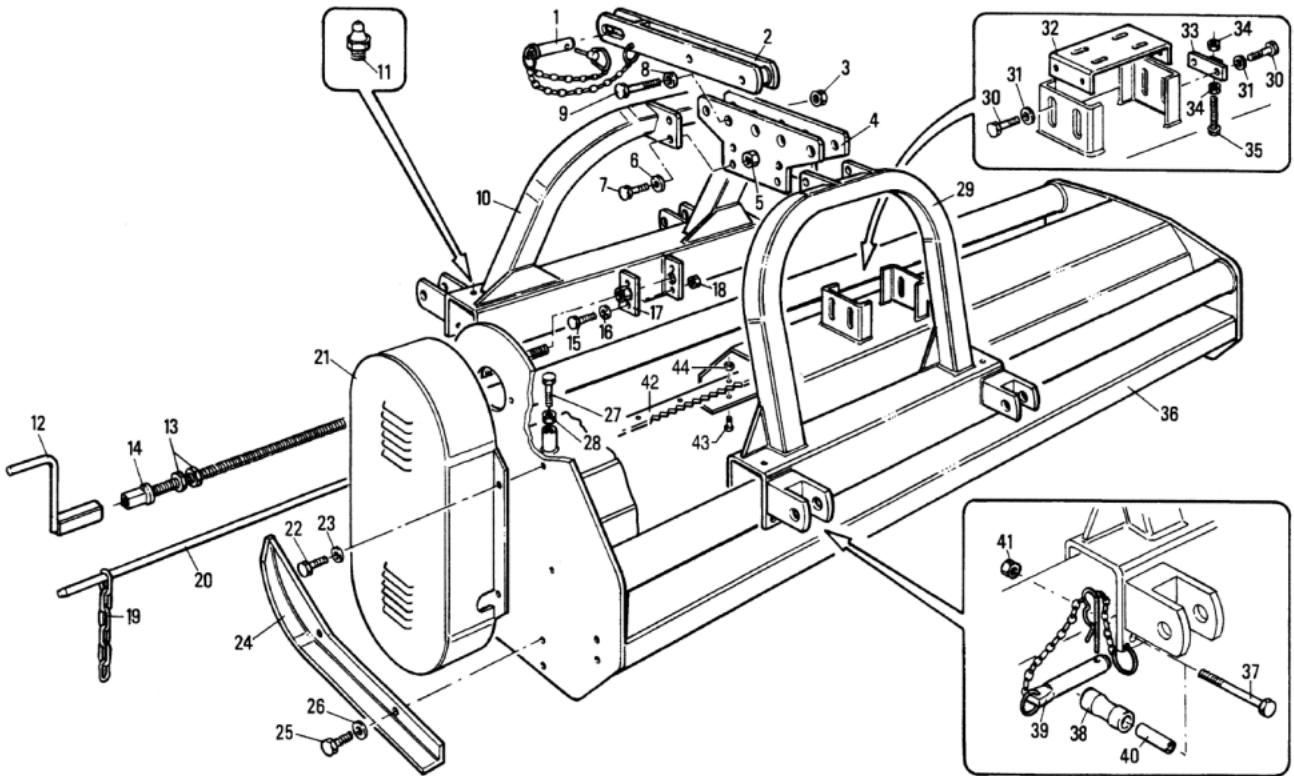
MT26

MT26 – KIT FOR FRAME



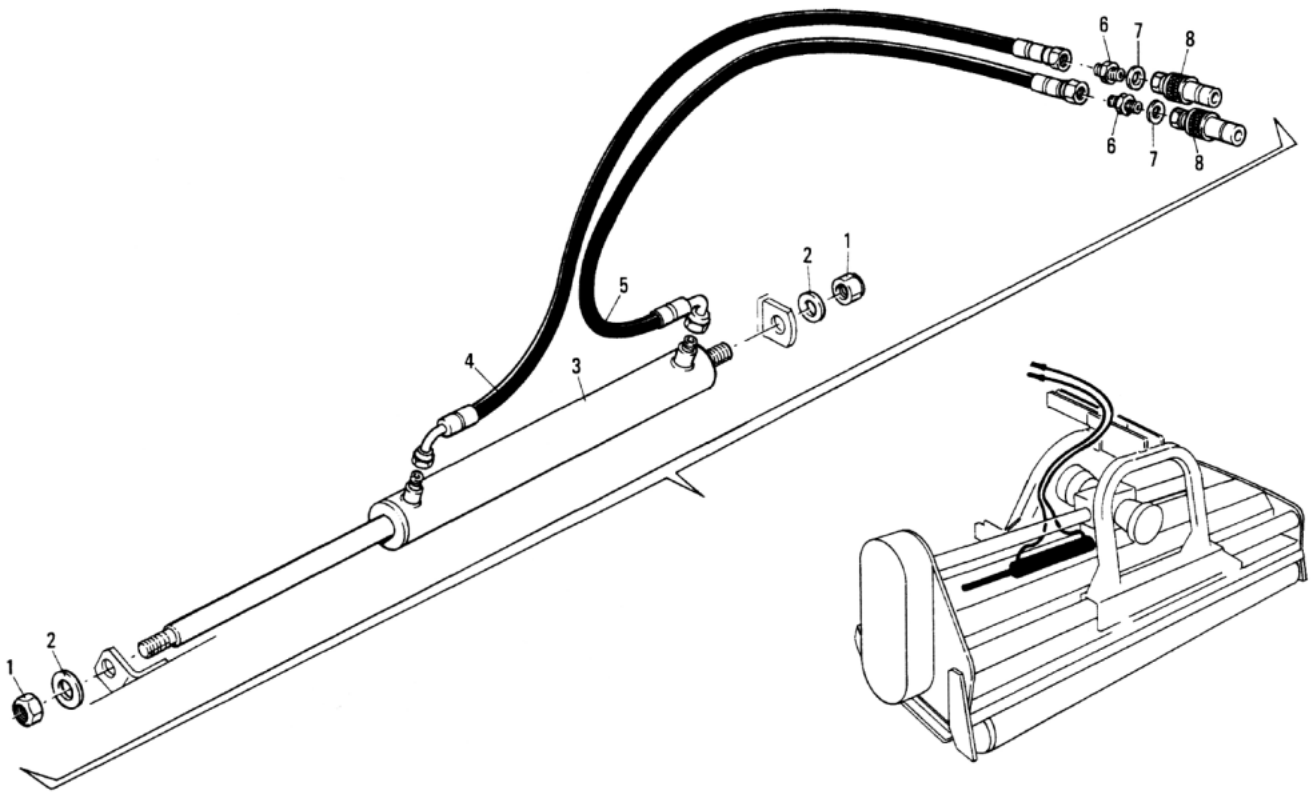
Item No	Description	Qty	MT26 180 Part No	MT26 200 Part No	MT26 230 Part No	MT26 280 Part No
1	Pin	1	68062100	68062100	68062100	68062100
2	Bracket	1	40215400	40215400	40215400	40215400
3	Nut	3	62011000	62011000	62011000	62011000
4	Bracket	2	39232500	39232500	39232500	39232500
5	Nut	8	62010800	62010800	62010800	62010800
6	Washer	8	61006600	61006600	61006600	61006600
7	Screw	8	60031400	60031400	60031400	60031400
8	Washer	3	61006500	61006500	61006500	61006500
9	Screw	3	60026100	60026100	60026100	60026100
10	Front hitch	1	40215200	40215200	40215200	40215200
11	Grease fitting	4	64001800	64001800	64001800	64001800
12	Crank	1	40121700	40121700	40121700	40121700
13	Lead nut	2	62012800	62012800	62012800	62012800
14	Screw	1	40247000	40247000	40247100	40247200
15	Screw	2	60036200	60036200	60036200	60036200
16	Washer	2	61004700	61004700	61004700	61004700
17	Lead nut	1	40246800	40246800	40246800	40246800
18	Nut	2	62010200	62010200	62010200	62010200
19	Chain		68068600	68068600	68068600	68068600
20	Rod	1	31068600	31068700	31068800	31074600
21	Cover	1	40215600	40215600	40215600	40215600
22	Screw	4	60026900	60026900	60026900	60026900
23	Washer	4	61006200	61006200	61006200	61006200

MT26 – KIT FOR FRAME (CONT'D)



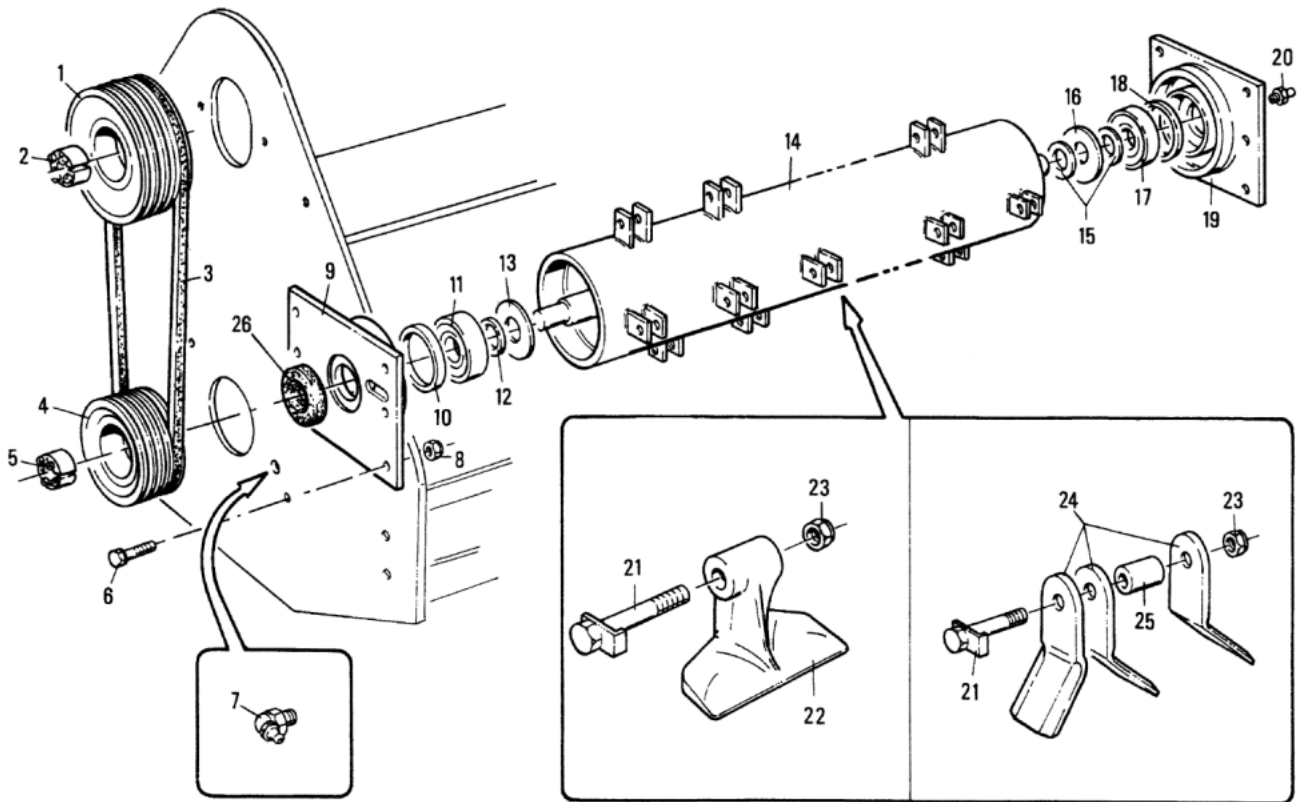
Item No	Description	Qty	MT26 180 Part No	MT26 200 Part No	MT26 230 Part No	MT26 280 Part No
24	Skid	2	40231200	40231200	40231200	40231200
25	Screw	4	60023200	60023200	60023200	60023200
26	Washer	4	61006600	61006600	61006600	61006600
27	Screw	1	60036300	60036300	60036300	60036300
28	Nut	1	62008700	62008700	62008700	62008700
29	Rear hitch	1	40215300	40215300	40215300	40215300
30	Screw	4	60031400	60031400	60031400	60031400
31	Washer	4	61006600	61006600	61006600	61006600
32	Support	1	40215700	40215700	40242500	40242500
33	Tierod	1	40215800	40215800	40215800	40215800
34	Nut	2	62008700	62008700	62008700	62008700
35	Screw	1	60036300	60036300	60036300	60036300
36	Frame	1	41104001	41104101	41104201	41104402
37	Screw	4	60026200	60026200	60026200	60026200
38	Needle pin	4	32167600	32167600	32167600	32167600
39	Pin	4	68062400	68062400	68062400	68062400
40	Spacer	4	32162000	32162000	32162000	32162000
41	Nut	4	62011000	62011000	62011000	62011000
42	Counter knife		30181300	30181400	30181500	30181700
43	Screw		60000400	60000400	60000400	60000400
44	Nut		62010400	62010400	62010400	62010400

MT26 – CHOICE OF EQUIPMENT COMPLETING MACHINE



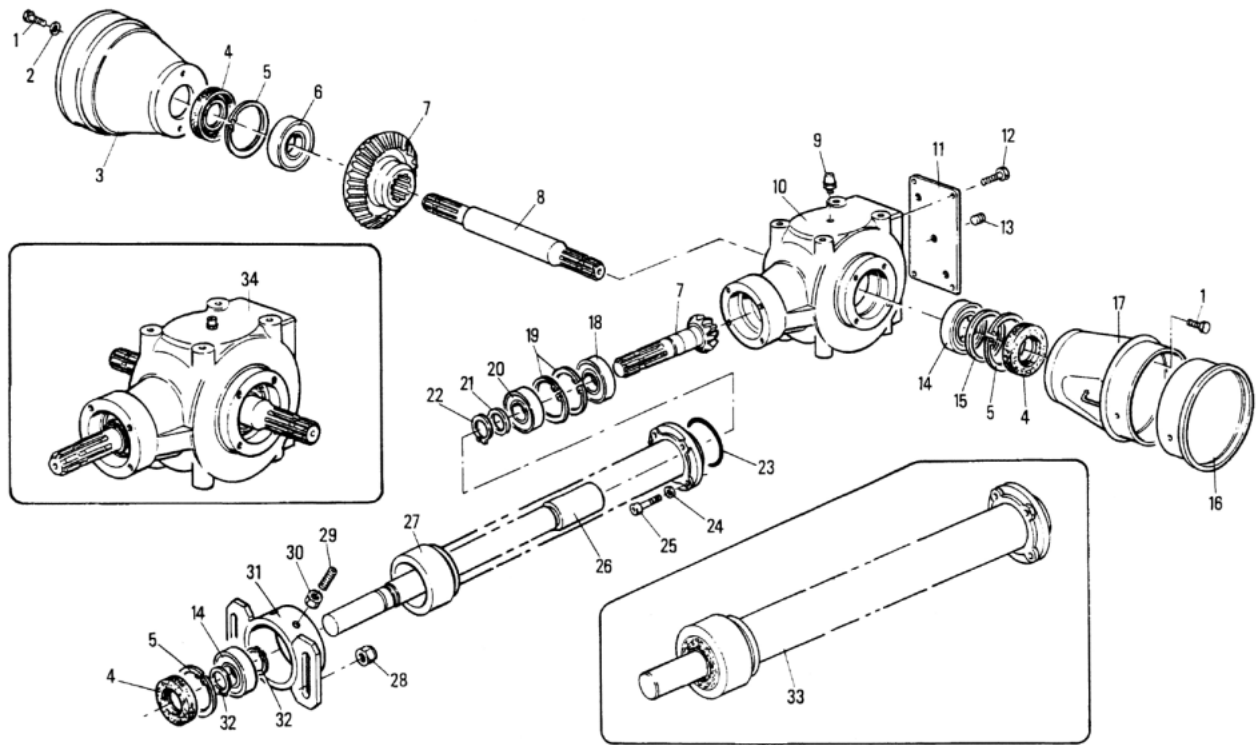
Item No	Description	Qty	MT26 180 Part No	MT26 200 Part No	MT26 230 Part No	MT26 280 Part No
1	Nut	2	62008300	62008300	62008300	62008300
2	Washer	2	61005800	61005800	61005800	61005800
3	Cylinder	1	68082800	68082800	68082800	68082800
4	Tube	1	68048400	68048400	68048400	68048400
5	Tube	1	68048300	68048300	68048300	68048300
6	Nipple	2	68048700	68048700	68048700	68048700
7	Washer	2	61005700	61005700	61005700	61005700
8	Quick Linkage	2	68043500	68043500	68043500	68043500

MT26 – KIT FOR ROTOR



Item No	Description	Qty	MT26 180 Part No	MT26 200 Part No	MT26 230 Part No	MT26 280 Part No
1	Pulley	1	68085000	68085000	68060400	68073900
2	Locking Device	1	68060300	68060300	68060300	68060000
3	Belt		68083300	68083300	68083300	68094200
4	Pulley	1	68076600	68076600	68060100	68094300
5	Locking Device	1	68060000	68060000	68060000	68060000
6	Screw	12	60026700	60026700	60026700	60026700
7	Grease Fitting	1	64003600	64003600	64003600	64003600
8	Nut	12	62010800	62010800	62010800	62010800
9	Support (LH)	1	40118900	40118900	40228900	40228900
10	Spacer (LH)	4	32097500	32097500	32097500	32097500
11	Bearing	1	67018700	67018700	67018700	67018700
12	Spacer	1	68011200	68011200	68011200	68011200
13	Guard (LH)	1	39129000	39129000	39129000	39129000
14	Rotor	1	42048201	42048301	42048402	42067200
15	Spacer	2	68011000	68011000	68011000	68011000
16	Guard (RH)	1	39129100	39129100	39129100	39129100
17	Bearing	1	67014500	67014500	67014500	67014500
18	Spacer (RH)	1	32097600	32097600	32097600	32097600
19	Support (RH)	1	40118800	40118800	40228800	40228800
20	Grease Fitting	1	64001800	64001800	64001800	64001800
21	Screw		60026600	60026600	60026600	60026600
22	Hammer		12014100	12014100	12014100	12014100
23	Nut		62011400	62011400	62011400	62011400
24	Knife		12007800	12007800	12007800	12007800
25	Spacer		32068500	32068500	32068500	32068500
26	Junt Ring	1	66014200	66014200	66014200	66014200

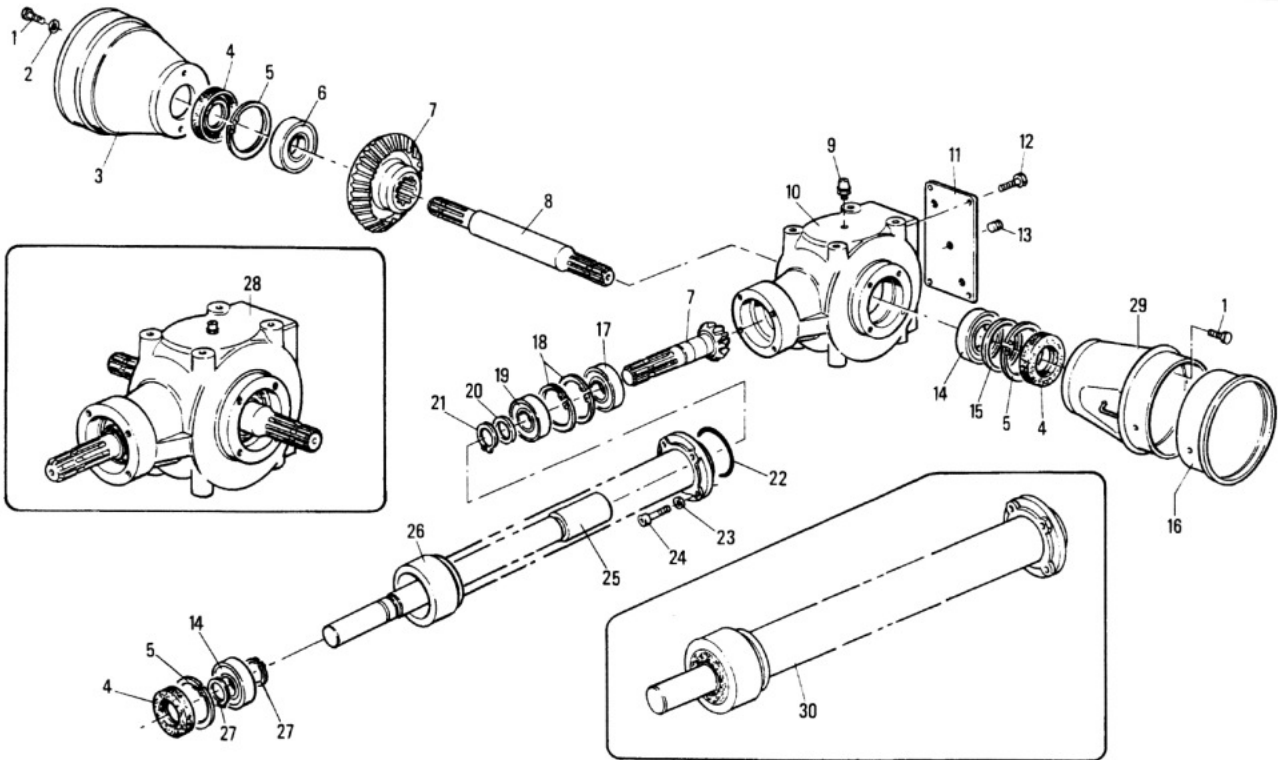
MT26 – GEARBOX (180, 200 & 230)



Item No	Description	Qty	MT26 180 Part No	MT26 200 Part No	MT26 230 Part No
1	Screw	8	60021600	60021600	60021600
2	Washer	8	61004900	61004900	61004900
3	Guard	1	68061501	68061501	68061501
4	Jant ring	3	66014900	66014900	66014900
5	Snap-ring	3	63000200	63000200	63000200
6	Bearing	1	67005200	67005200	67005200
7	Bevel gear pair	1	10040600	10040600	10040600
8	Shaft	1	31077700	31077700	31077700
9	Plug	1	68067500	68067500	68067500
10	Gearbox Casing	1	01017600	01017600	01017600
11	Cover	1	03001600	03001600	03001600
12	Screw	4	60022800	60022800	60022800
13	Plug	3	68008700	68008700	68008700
14	Bearing	2	67004400	67004400	67004400
15	Spacer		68067100	68067100	68067100
16	Gripping	1	68090000	68090000	68090000
17	Guard	1	68074300	68074300	68074300

Item No	Description	Qty	MT26 180 Part No	MT26 200 Part No	MT26 230 Part No
18	Bearing	1	67000300	67000300	67000300
19	Snap-ring	2	63000300	63000300	63000300
20	Bearing	1	63003700	63003700	63003700
21	Spacer		68010200	68010200	68010200
22	Snap-ring	1	63000600	63000600	63000600
23	Jant ring	1	66013100	66013100	66013100
24	Washer	4	61000400	61000400	61000400
25	Screw	4	60031700	60031700	60031700
26	Shaft	1	31061200	31061200	31061300
27	Tube	1	40166000	40166000	40166100
28	Nut	2	62010800	62010800	62010800
29	Screw	2	60032200	60032200	60032200
30	Nut	2	62007200	62007200	62007200
31	Support	1	40215900	40215900	40215900
32	Snap-ring	2	63000700	63000700	63000700
33	Extension	1	45111000	45111000	45111000
34	Gearbox	1	46034400	46034400	46034400

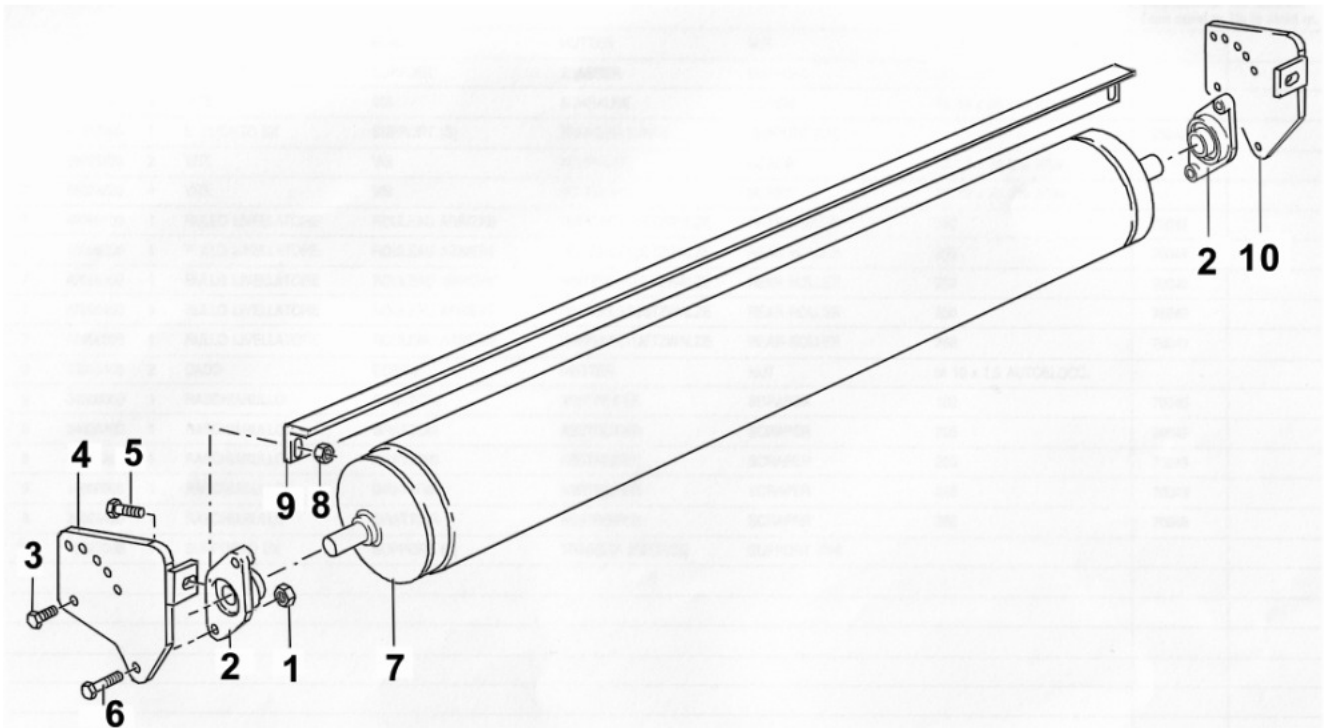
MT26 – GEARBOX (280)



Item No	Description	Qty	MT26 280 Part No
1	Screw	8	60031600
2	Washer	8	61004900
3	Guard	1	68061501
4	Junt ring	3	66006700
5	Snap-Ring	3	63001500
6	Bearing	1	67008700
7	Bevel Gear Pair	1	10043000
8	Shaft	1	31083900
9	Plug	1	68067400
10	Gearbox Casing	1	01018000
11	Cover	1	03001600
12	Screw	8	60022800
13	Plug	3	68008700
14	Bearing	2	67004800
15	Spacer	1	68093200

Item No	Description	Qty	MT26 280 Part No
16	Guard	1	68090000
17	Bearing	1	67005500
18	Snap-ring	2	63000300
19	Bearing	1	67000300
20	Spacer	1	68093300
21	Snap-ring	1	63000600
22	Junt Ring	1	66013100
23	Washer	4	61000400
24	Screw	4	60031700
25	Shaft	1	31083800
26	Tube	1	40254700
27	Snap-ring	2	63003500
28	Assembled Gearbox	1	46035100
29	Guard	1	68074300
30	Extension	1	45122700

MT26 – REAR ROLLER



Item No	Description	Qty	MT26 180 Part No	MT26 200 Part No	MT26 230 Part No	MT26 280 Part No
1	Nut	4	62010600	62010600	62010600	62010600
2	Support	2	67001000	67001000	67001000	67001000
3	Screw	4	60023200	60023200	60023200	60023200
4	Support (LH)	1	40226900	40226900	40226900	40226900
5	Screw	2	60023500	60023500	60023500	60023500
6	Screw	4	60028200	60028200	60028200	60028200
7	Rear Roller	1	42066100	42066200	42066300	42066500
8	Nut	2	62010400	62010400	62010400	62010400
9	Scraper	1	34026000	34026100	34026200	34026400
10	Support (RH)	1	40227000	40227000	40227000	40227000

SECTION 9 – TROUBLESHOOTING

Fault	Cause	Remedy
Irregular Cut	Shredder not levelled in relation to the ground Worn, broken or deformed knives or hammers Knives or hammers missing	Correctly level the shredder as described in Section 6 Replace the knives as in Section 6 Replace as above
Torn, cut or uneven distribution of the cut product	Too many residuals accumulated under the chassis Shredder not levelled Worn knives Wrong PTO rpm	Clean the implement Level the shredder as described in Section 6 Replace as described in Section 6 Adjust the PTO to the correct rpm rate
Noisy shredder	Loose parts Insufficient oil in gearbox Wrong PTO rpm rate Insufficient grease in the rotor shaft supports	Check all nuts and bolts are tightened fully Check oil level and top up as necessary Adjust to the correct rpm rate Thoroughly grease the rotor shaft supports
Drive belts excessively slack or worn	The knives touch the ground during work Belt tension is not parallel	Check and increase knife height Correctly tighten the belts and align with the gearbox extension tube with the chassis - see Section 6
Knives worn too quickly	The knives touch the ground during work	Check and increase the knife height as described in Section 6

SECTION 10 - WARRANTY PROCEDURE

Steps to take in the event of machine failure

Dealer:

- The warranty claim will be completed by the Major dealer and will be submitted either to head office or to the Major area representative. Any parts replaced under warranty must be tagged and retained until claim is resolved. When ordering replacement spare parts please notify the Major Stores person that this is a warranty claim.
- The Major dealer will sign off on the claim and submit it to Major for consideration.
- The Technical Service Department at Major will study the claim and may request parts to be returned for examination. Major will notify their conclusions to the dealer service person from whom the claim was received.
- Any replacement parts ordered for the machine must be flagged as such when contacting Major. The delivery note and invoice will be flagged with "Warranty Pending" and will be invoiced as normal.
- A warranty claim form will be sent by Major to the dealer for completion. Only when the completed warranty claim form has been received by Major will the claim be resolved.
- Dealers must notify the Major Representative within 10 days of breakdown and all warranty claims are to be settled within 90 days of breakdown notification.

Customer:

Should a Major machine fail due to a defect in material and/or workmanship, the owner should make a warranty claim as follows:

- The machine must be taken to the dealer from where it was purchased or to an authorised Major dealer.
- The owner must present proof of warranty registration.
- The warranty claim will be completed by your Major dealer and will be submitted either to head office or to their Major area representative. Attention: Service Manager: Any parts replaced under warranty must be tagged and retained until claim is resolved.
- The Major dealer will sign off on the claim and submit it to Major for consideration.
- The Technical Service Department at Major will study the claim and may request parts to be returned for examination. Major will notify their conclusions to the dealer service person from whom the claim was received.
- The decision by the Quality/Service department at Major to approve or reject a Warranty claim is final and binding.

NOTE: To process a warranty claim, it is necessary to quote the Model & Serial Number which are printed on the Major Serial Plate – see owners manual

This company warrants its products to be free from defects under the following terms and conditions:

1. Length

All new Major products come with a one year limited warranty against defects in materials and workmanship from the original date of purchase from an authorised dealer. Products that have been repaired/replaced will be under warranty for the remainder of the original warranty period or thirty days, whichever is longer.

2. Transferability

The warranty is non-transferable and is only valid for the original owner of the product.

SECTION 10 - WARRANTY PROCEDURE – (cont'd)

3. Coverage

All Major products come with a limited warranty for the period of one year, unless otherwise stated. The warranty solely covers parts and labour of Major products. Major are not liable for products that have been damaged due to abuse or negligence, nor are we liable for incidental or consequential damages. Any normal wear and tear that occurs is not covered under Major's warranty. Consumables such as blades, belts and PTO shafts are not covered under Major's warranty.

The following will result in the warranty being voided

- any product where the serial number has been defaced, modified or removed
- Damage or failure due to abuse, neglect, usage outside of intended purpose & failure to read instructions.
- Unauthorised repairs
- Any non-superficial repairs
- Failure to supply serial number details and/or proof of purchase

The following are not covered under Major's warranty:

- items purchased second hand
- any problem pertaining to cosmetics, unless pre-existing
- failure to determine if the product is right for your intended purposes
- Any incidental or consequential damages that occur to products not made by Major

4. Exclusion of Damages

Major reserves the right to either repair or replace the defective product. Major shall not be held liable to the purchase or any third party for any incidental or consequential damages, including, but not limited to, damages resulting from interruption of service and loss of business. Major is solely responsible for products manufactured by Major and offers no warranties, expressed or implied, for any other products.