

IM1949

Flail mower-shredder

**TURBOMOWER
ELITE**

(MMT)

105/115/130/150

OPERATING INSTRUCTIONS AND SPARE PARTS

PROVISIONAL COPY

IMPORTANT

NOTE HERE THE SERIAL NUMBER OF YOUR MACHINE AND ALWAYS QUOTE IT IN ANY COMMUNICATION WITH US OR YOUR DEALER. THIS IS PARTICULARLY IMPORTANT WHEN ORDERING SPARES. REMEMBER TO INCLUDE ALL NUMBERS AND LETTERS.

MACHINE SERIAL NUMBERS _____

THE INFORMATION GIVEN THROUGHOUT THIS MANUAL IS CORRECT AT THE TIME OF PUBLICATION. HOWEVER, IN THE COURSE OF CONSTANT DEVELOPMENT OF BOMFORD TURNER MACHINES, CHANGES IN SPECIFICATION ARE INEVITABLE. SHOULD YOU FIND THE INFORMATION GIVEN IN THIS BOOK TO BE AT VARIANCE WITH THE MACHINE IN YOUR POSSESSION, YOU ARE ADVISED TO CONTACT THE BOMFORD TURNER SERVICE DEPARTMENT WHERE UP-TO-DATE INFORMATION WILL BE PROVIDED.

THE MANUAL CAN CONTAIN STANDARD AND OPTIONAL FEATURES AND IS NOT TO BE USED AS A MACHINE SPECIFICATION.

THE MACHINE HAS BEEN TESTED AND IS CONSIDERED SAFE IF CAREFULLY USED. ENSURE YOUR OPERATOR IS PROPERLY TRAINED IN ITS USE AND MAINTENANCE.

IMPORTANT

NOTEZ ICI LES NUMEROS DE SERIE DE VOTRE MACHINE ET MENTIONNEZ LES DANS TOUTE COMMUNICATION AVEC NOS SERVICES OU VOTRE REVENDEUR. CECI EST IMPORTANT POUR LA COMMANDE DE PIECES DETACHEES. PENSEZ A NOTER TOUS LES NUMEROS ET TOUTES LES LETTERS.

NUMEROS DE SERIE DE LA MACHINE _____

LES INFORMATIONS DONNEES DANS CE MANUEL SONT CORRECTES CEPENDANT, DU FAIT DE DEVELOPPEMENT CONSTANT DES MACHINES BOMFORD TURNER.

CHANGEMENTS DANS LES CARACTERISTIQUES SONT INEVITABLES.

SI VOUS TROUVEZ QUE LES INFORMATIONS DONNEES NE CORRESPONDENT PAS A VOTRE MACHINE VEUILLEZ CONTACTER LE SERVICE DES REPARATIONS OU DES INFORMATIONS PLUS RECENTES VOUS SERONT DONNEES.

CE MANUEL PEUT MONTRER DES CARACTERISTIQUES OPTIONNELLES ET NE PEUT PAS ETRE CONSIDERE COMME SPECIFICATION DE LA MACHINE.

CETTE MACHINE A ETE TESTEE, ET ELLE EST CONSIDEREE COMME FIABLE A CONDITION D'UNE BONNE UTILISATION. ASSUREZ-VOUS QUE VOTRE OPERATEUR EST QUALIFIE EN CE QUI CONCERNE L'UTILISATION DE LA MACHINE AINSI QUE SON ENTRETIEN.

WICHTIG

TRAGEN SIE HIER DIE SERIENNUMMERN IHRER MASCHINE EIN UND GEBEN SIE DIESE IMMER AN, WENN SIE SICH AN UNS ODER IHREN HÄNDLER WENDEN. DAS IST BESONDERS BEI ERSATZTEILBESTELLUNGEN WICHTIG. VERGESSEN SIE NICHT, ALLE ZAHLEN UND BUCHSTABEN ZU NOTIEREN.

SERIENNUMMERN DER MASCHINE _____

DIE ANGABEN IN DIESEM HANDBUCH SIND BEI VERÖFFENTLICHUNG KORREKT. AUFGRUND DER KONSTANTEN WEITERENTWICKLUNG VON BOMFORD TURNER MASCHINEN SIND JEDOCHÄNDERUGDEN IN DER SPEZIFIKATION UNVERMEIDLICH. WENN DIE INFORMATION IN DIESEM HANDBUCH NICHT MIT IHRER MASCHINE ÜBEREINSTIMMEN, NEHMEN SIE BITTE KONTAKT MIT DER BOMFORD TURNER KUNDENDIENSTABTEILUNG AUF, DIE IHNEN GERNE DIE AKTUELLEN INFORMATION ZUKOMMEN LÄSST.

DAS HANDBUCH KANN SOWOHL BESCHREIBUNGEN FÜR DIE STANDARD AUSFÜHRUNG ALS AUCH FÜR ZUBEHÖR ENTHALTEN UND IST NICHT ALS MASCHINENSPEZIFIKATION ZU VERWENDET.

DIE MASCHINE IST GETESTET UND BEI SACHGEMÄSSEM BETRIEB ALS SICHER BEFUNDEN WORDEN. SORGEN SIE DAFÜR, DASS IHR BEDIENPERSONAL IN ANWENDUNG UND WARTUNG RICHTIG GESCHULT WIRD.

CONTENT

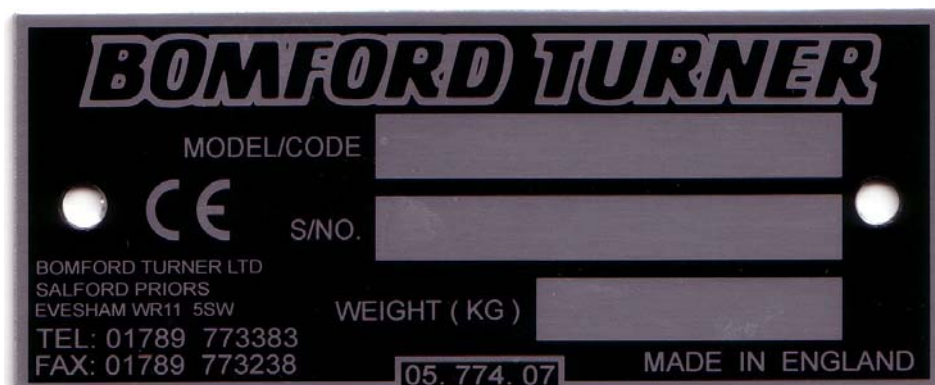
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1.GENERAL INFORMATION

1.1 This operation and maintenance manual is intended for the professional user. It is mandatory to follow these instructions in order to prevent events which could endanger the operator's and other people's safety, apart from the correct functioning of the mower. In case of doubt, do not experiment, call Bomford after-sales service instead, or the specialised Bomford dealer.

1.2 Identifying the machine Each mower is fitted with an identification plate; both the data necessary to identify the model and the serial number to order spare parts or after-sales service are stamped on the plate (see FIG.1).

FIG.1



1.3. It is strongly recommended to use genuine Bomford spare parts to avoid altering the technical features of the mower. Bomford Turner Ltd is not responsible for any damage or injuries to people due to unauthorized modifications or to the use of non-genuine spare parts.

This machine is in conformity with the following provisions of law: - Directive Machine 89/392/CEE and following additions: 91/368/CEE, 93/44/CEE and 93/68/CEE; - Regulations UNI EN 292/1 and 292/2 (machinery safety). - Regulation UNI EN 745 (Rotary and flail mowers safety).

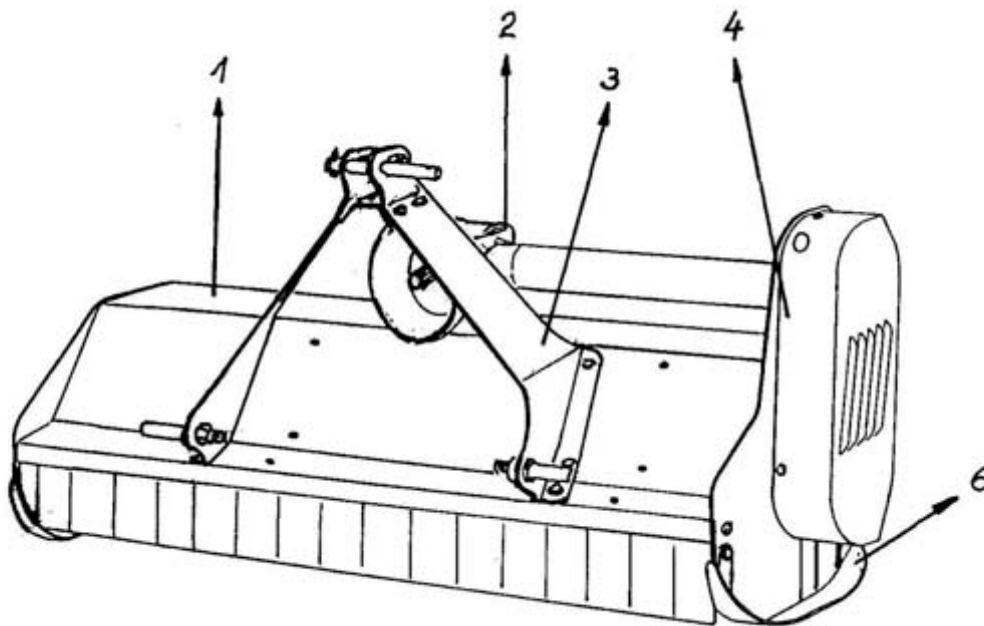
2 TECHNICAL FEATURES

2.1 The Bomford MMT mower, from now also called machine, has been designed for cutting grass on amenity areas, in orchards and for cutting crop residues on small agriculture areas, for sticks and shrubs laying on the ground of up to 3 cm.diameter (proper use). Its light weight and low power requirement means that it is best suited to small tractors. Any other use is considered improper and the manufacturer disclaims all responsibility for any consequential injuries to people, or for damage to the machine. Proper use also refers to the safety and maintenance rules provided for by the manufacturer.

Technical names (FIG.2)

- 1 frame
- 2 gearbox
- 3 connecting bow
- 4 side transmission
- 5 rear adjustable roller
- 6 adjustable skids
- 7 blades or hammers

FIG.2



2.2 Technical specifications

TAB.1

Mod.		MMT105	MMT 115	MMT 130	MMT 150
Width of cut	cm	105	115	130	145
Min.tract.requ.power	KW/HP	14-20/18-26	15-23/20-30	23-27/30-35	27-30/35-40
Power takeoff speed	Rpm	540	540	540	540
Weight	kg	160	170	185	205
Linkage to the tractor	Cat.	II	II	II	II
Flails	Nr.	28	32	36	40
Hammer blades	Nr.	14	16	18	20
Width A	CM	120	130	145	160
Length B	CM	80	80	80	80
Height C	CM	80	80	80	80

2.3. Width of cut

Tab. 2 shows the dimensions of cut of the shredder (offsetting).

TAB.2

	Left in cm	Right in cm		Left in cm	Right in cm
MMt 105	52	50	MMT 130	60	69
	42	60		45	84
MMT 115	58	58	MMT 150	68	75
	43	73		53	90

2.4. Equipment

TAB.3

Equipment MMT	105	115	130	150
hammer	◆	◆	◆	◆
Y-blades, flails	□	□□	□□	□□
Rear roller	◆	◆	◆	◆
Mechanic side movement- 2 FIXED POSITIONS	◆	◆	◆	◆

◆ = Standard eqpt.

□ = Optional eqpt.

FIG.3 Variants

REAR MOUNTED
FRONT MOUNTED

3. SAFETY RULES

3.1. General safety rules:

- It is mandatory to read and follow the instructions for the use and maintenance manual before carrying out any operation or move with the shredder. Improper use or an incorrect move may seriously damage things and people.
- Both the operator and the maintenance fitter must know the shredder well, especially regarding dangers resulting from improper use or incorrect repairs.
- Before starting, checks on tractor and shredder, must be carried out as regards: functionality, road safety, accident prevention rules.
- Even when using the shredder correctly, stones or other objects may be thrown on a long distance. Therefore nobody must stand within the danger area. Special attention must be paid when working near roads or buildings.
- Use tractor with cabs.
- The condition of flails and of all guards must be checked before beginning the daily work – they must be replaced if damaged or missing.
- During checks or repairs, make sure nobody could start the shredder by mistake.
- Never wear loose or fluttering clothes.
- Never carry passengers on the tractor.
- Never carry passengers on the shredder.
- Never connect the power takeoff with the engine stopped.
- Never approach the shredder until the rotor has completely stopped.
- Do not enter the working zone of the PTO shaft. It is dangerous to approach the rotating parts of the machine.
- Keep the PTO shaft guard in good order.
- Before starting check the surrounding area for the likely presence of children and/or animals.
- Do not stand in the range of the operation of the machine.
- The PTO shaft must be assembled and dismantled only with the engine stopped and the starting key removed.
- Before connecting the power takeoff, check that the speed and the rotational direction correspond to those of the shredder.
- Before leaving the tractor with the tool attached, proceed as follows:
 1. Disconnect the power takeoff,
 2. Put the machine steadily on the ground (with the hydraulic lift)
 3. Apply the hand brake and, if the ground is steeply sloping, wedge the tractor.
 4. Take out the starting key.
- Immediately replace any safety sign, or any missing or damaged decal.

3.2. Safety Rules concerning Road Traffic

- In transport, reduce speed, especially on bumpy roads. The very weight of the shredder may render driving difficult and damage the shredder itself.
- Check moreover that the levers which operate the hydraulic lift are locked, to avoid the lowering of the machine during transport.
- When driving on public roads, respect all road rules in force.
- Never transport the machine with the rotor moving, even for short distances.

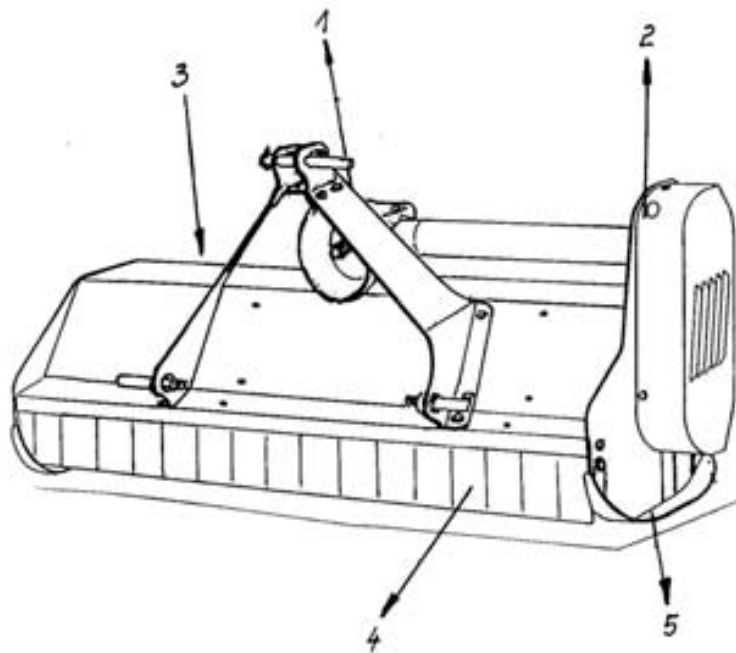
3.3 Safety Rules during use

- Pay special attention when working with the machine, not to touch fixed objects, such as road drain, walls, shafts, kerbs, guard rails, tracks etc. This could cause the breakage of the flails, which would be thrown at very high speed.
- If wires, ropes or chains should get entangled in the rotor, stop immediately, to prevent damage or dangerous situations; stop the rotor and the tractor, take out the starting key. Put working gloves on, clear the rotor with the aid of pliers or shears. Do not try to disentangle by inverting the rotational direction of the rotor.
- Do not use the machine when there is vibration in the flail head, as this would cause breakage and serious damage. Find the cause of the vibration and eliminate it.

3.4. List of Guards fitted to the shredder (FIG.4)

1. Pto shaft guard
2. Belt guard
3. Danger and warning decals
4. Front guard
5. Side guard-skids

FIG.4

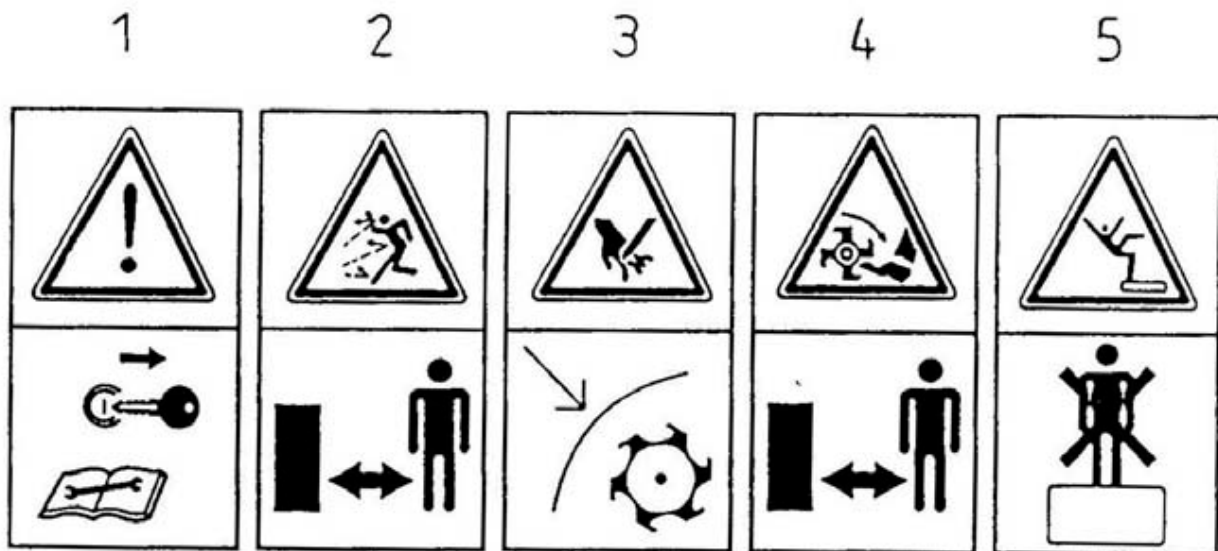


3.5. Description and location of Safety decals

Carefully follow the instructions given on the decals (FIG.5).

1. Always take off previously the machine of the tractor and read the instructions carefully before starting servicing and/or lubricating operations.
2. Keep at a safety distance from the machine to avoid the risk of projection of objects.
3. Never remove the guards while the parts of machine are moving. It is dangerous to injure the hands.
4. Keep at a safe distance from the machine to avoid the risk of cutting of feet.
5. It is forbidden to mount on the machine because of the risk of fall.

FIG.5



4 INSTRUCTIONS FOR INSTALLATION AND HANDLING

4.1. Lifting and unloading

To handle the shredder use an elevator lifting capability suitable to the weight of the machine (see TAB.1)

4.2. Unpacking

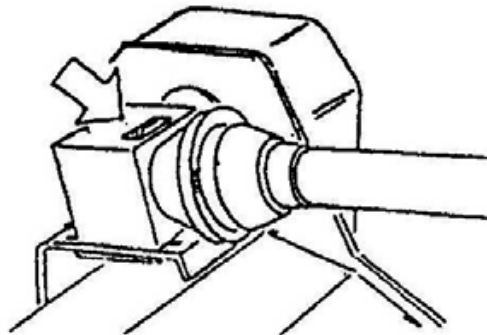
To make transport easier, the machine can be supplied with connecting bow split. In this case use bolts, locknuts and washers enclosed to fix the bar and the flap on the machine.

4.3. Attachment to and detachment from the tractor.

Before carrying out this operation and whenever the shredder is used, it is mandatory to:

- Visually check the machine in general
- Check that all guards are fitted and in good condition
- Confirm that all flails are fitted and in good condition
- Grease the bearings and any other part as indicated by a decal (FIG.18)
- Check that the number or revolutions and the rotational direction of the power takeoff correspond to those required by the machine (FIG.7).

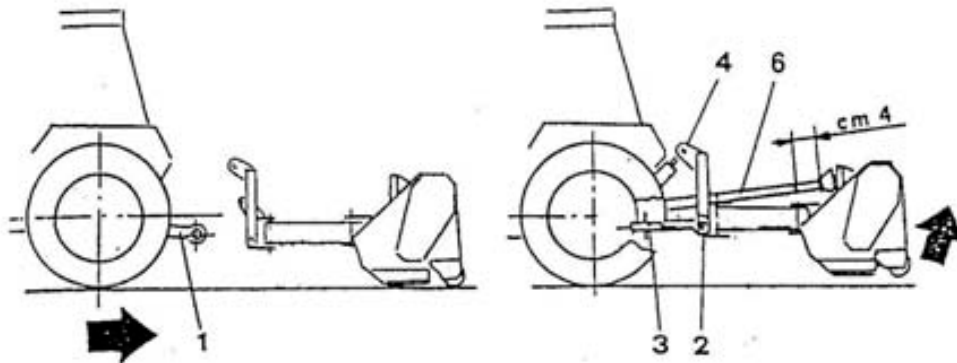
FIG.7



- To attach the machine to the tractor (FIG.8), bring the tractor lower links (1) near the machine, to the points corresponding to the pins.
- Insert the pins (2) and secure them with the spring clips (3).

- Fit the top link (4), raise the machine to a perpendicular position with the ground. Adjust the two tractor lower linkage stabilizers (3) thus fixing the machine to the tractor in a central position.
- lift the stand (5).
- Proceed in reverse order to detach the shredder from the tractor.

FIG 8



4.4. Fitting the PTO shaft

- Following the instructions in 4.3. assemble the PTO shaft (6) and check that the overlap is not less than $\frac{2}{3}$ of L. Be sure to keep a 4 cm backlash (FIG.8). if it needs shortening, proceed as in (FIG.9).
- The guards of the PTO shaft must be fixed to the machine and to the tractor with chains, to prevent rotation. The minimum overlap of the guard and the PTO shaft must not be less than 5 cm. (FIG.10)

FIG.9

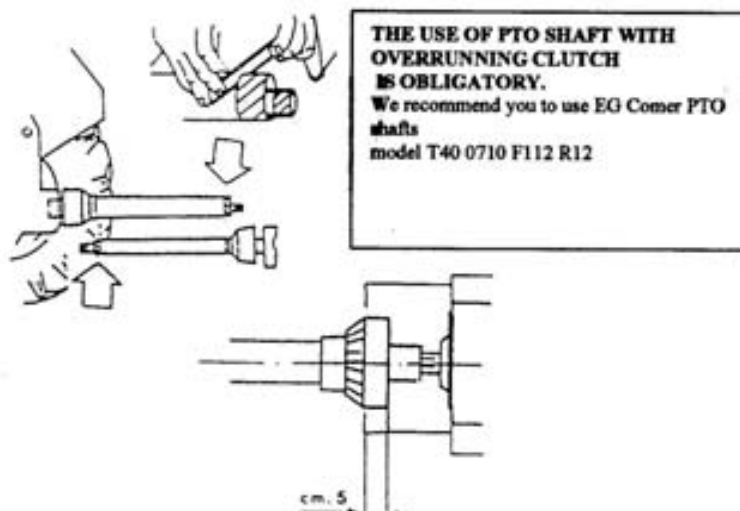


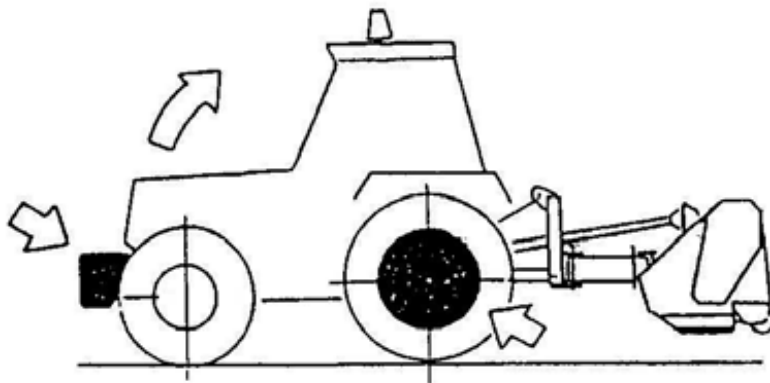
FIG.10

4.5 Tractor stability

Due to the design of the mowers and to the work they do, it is essential to ensure tractor stability, in order to eliminate any risk of imbalance or overturning.

- Lift the machine and check that the tractor does not lift up. If it does, ballast the rear wheel of the tractor opposite to the extended machine and in front (FIG.11).

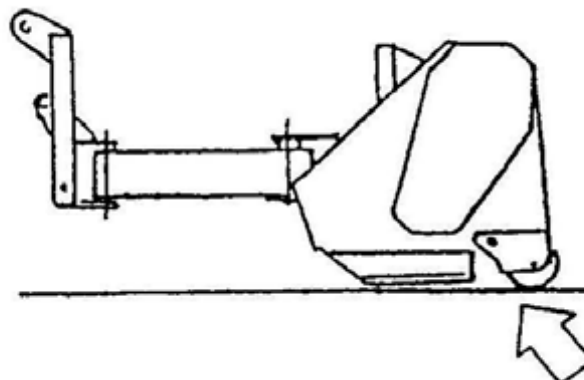
FIG.11



4.6 Parking

- Park the machine in a safe and quiet place, on flat and firm ground in order to prevent the risk of rolling over.
- Lower the shredder to the ground with the aid of the hydraulic lift of the tractor, after lowering and blocking the stand and lowering the flail head to the ground (FIG.12).

FIG.12

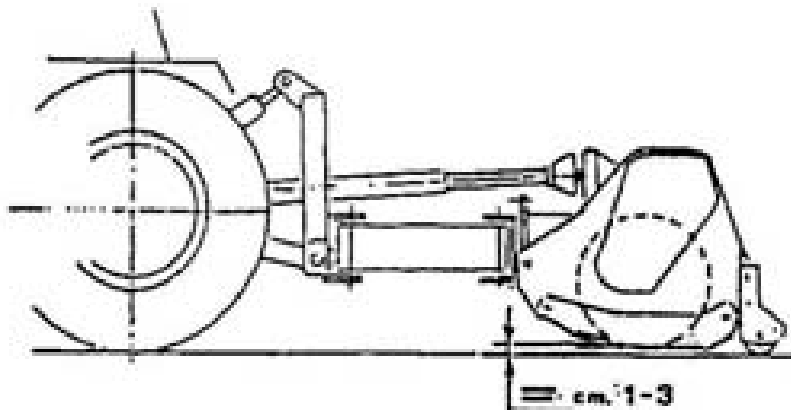


5 ADJUSTMENT AND SETTING UP

5.1. Adjustment of the height of cut is obtained by shifting the flail head roller in order to suit the material to be cut and the required degree of chopping (FIG.13).

IMPORTANT: Flails must never touch the ground.

FIG.13



6 USE AND OPERATING RULES

6.1. Starting Before using the machine read all parts of this manual, particularly about safety. Before beginning work make sure that the machine is in order with the correct level of oil in the gearbox and that all parts subject to wear and deterioration are fully efficient. Check that the number of revolutions and the rotational direction of the power takeoff of the tractor corresponds to those required by the machine, see decal on the gearbox (FIG.7).

Engage the power takeoff at low engine RPM to avoid damaging the transmission (gearbox and belts).
CHECK THE OIL LEVEL IN GEARBOX BEFORE STARTING.

6.2. Working mode

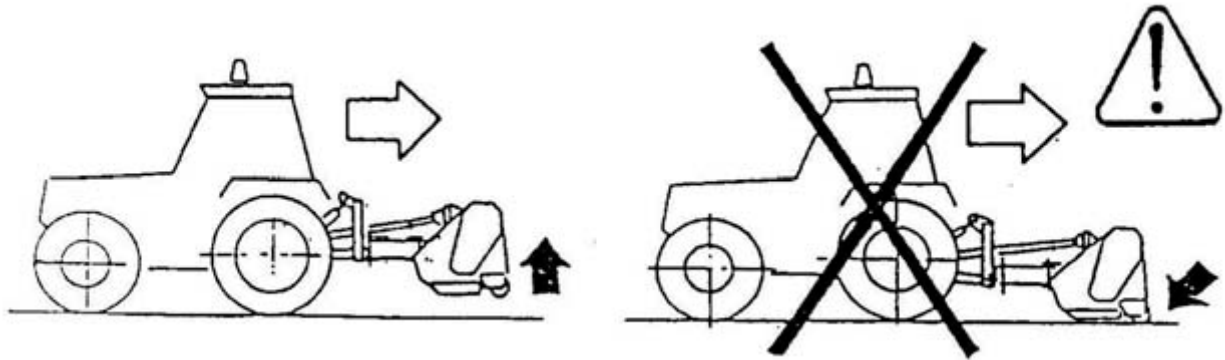
- Adjust the machine to suit the type of work to be done and the material to be cut: adjust the height of cut, as shown in FIG.13.
- Working speed is chosen to suit the material to be cut and the degree of chopping required. The optimum speed ranges from 3 to 8 km per hour.

IMPORTANT: if you want to move the machine from the central to side position proceed as follows:

- unscrew the connecting bow
- drill the holes on marked points (upper cover already has got the holes)
- put the connecting bow on the new position,
- tighten the screws

IMPORTANT: During reverse movement lift the machine off the ground to avoid damaging the machine (FIG.14)

FIG.14



6.3. Stopping

- Close the arms and lower the machine to the ground.
- Disconnect the power takeoff.
- Stop the tractor, take out the starting key and apply the hand brake.
- If the ground is sloping, block the tractor wheels.

6.4. Transport position

For transport it is mandatory to:

- Observe all road transport requirements and fit the necessary warning signs.
- Reduce speed especially on bumpy roads. The weight of the machine may render driving difficult and damage the machine itself.
- The power take off must be disconnected.

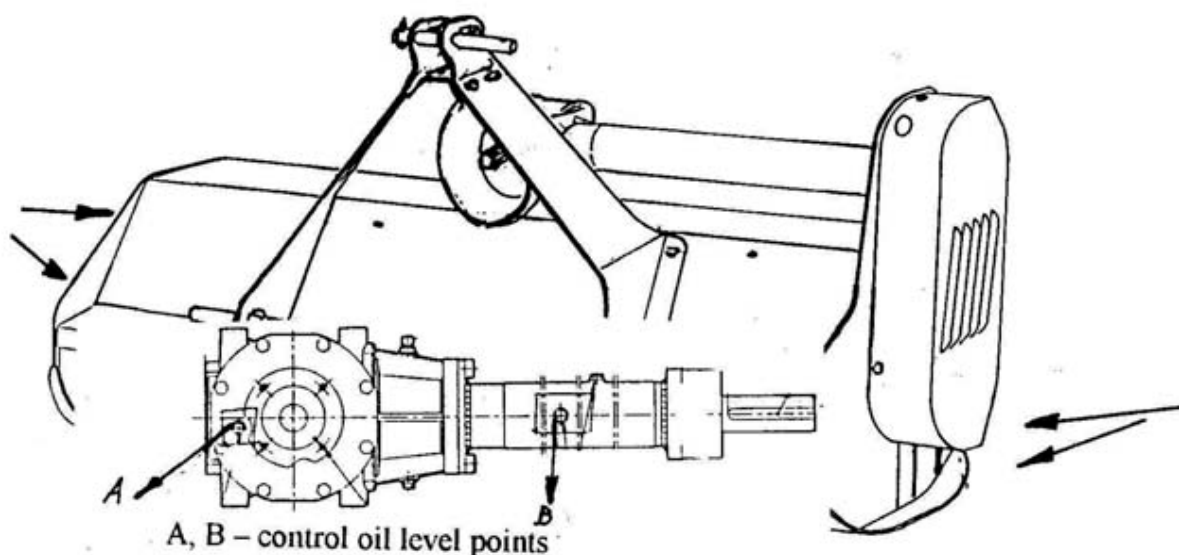
IMPORTANT: during transport on bumpy roads it is mandatory to move the machine into the central position.

7 MACHINE MAINTENANCE

All maintenance, cleaning and repair operations must be carried out with the shredder firmly lowered to the ground and detached from the tractor, or with disconnected PTO, engine off and starting key out. After the first two hours' operation from new (or after fitting new belts) check belt tension. Regularly, every 8 hours' operation:

- Tighten bolts and nuts,
- Check wear and condition of flails.
- Check the safety guards.
- Check belt condition
- Visually check the frame to detect possible damage caused by earlier work.
- Check gearbox and extension lubricating levels.
- Grease the parts on the appropriate decal (FIG.15).

FIG.15



This operation must be always carried out at the end of each working day. This facilitates the removal of mud or other material from the rotating parts (bearing, pins etc.) in order to avoid rust and possible seizure.

- Every 100 hours' operation grease the moving parts of the PTO shaft, extracting the two parts of the shaft.
- After long inactivity, repeat the operation before re-using the machine.
- Use grease classification DIN 51825 (KP 2 K)
- For gearbox use compatible oils – classification ISO VG 220

8 TROUBLE SHOOTING CHART

TROUBLES	CAUSES	REMEDIES
Irregular cut	- worn, bent or broken flails	- replace
	- machine is not in level with the ground	- level it
	- clogged material due to excessive working speed	- reduce working speed
Machine noise	- loose bolts	- Tighten bolts
	- cracks or initiation of flail head	- Have it repaired in specialized workshops
Gearbox noise	- lack of oil	- fill to level
	- worn gears	- replace
	- worn bearings	- replace
Vibration	- broken or worn flails	- replace
	- unbalanced rotor	- replace in authorized workshops
	- worn rotor bearings	- replace in authorized workshops
Premature flail wear	- flails touching the ground	- adjust the height of cut
Excessive backlash in joints	- worn pins	- replace
Breakage of roller Bearings	- Violent impact on the ground when the machine is lowered	- Lower it gently
Belts overheating	- Dirty or little greased bearings	- Clean and grease
	- Flails touching to the ground	- Adjust the height of cut
	- Working speed unsuitable to the amount of the material to be cut	- Reduce speed

9 REPLACING PARTS

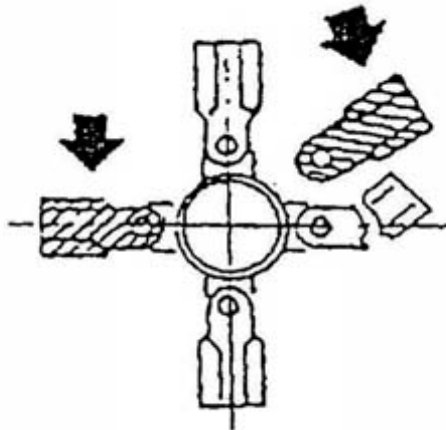
Before carrying out any work, it is mandatory to:

- lower the machine to the ground
- disconnect the power takeoff, stop the tractor and take out the starting key.
- Wear working gloves

9.1. Flail replacement

When the flails are worn, they must all be replaced. In case of a partially broken flail it is advisable to replace the broken one and the one diametrically opposite, in order to maintain the balance (FIG.16)

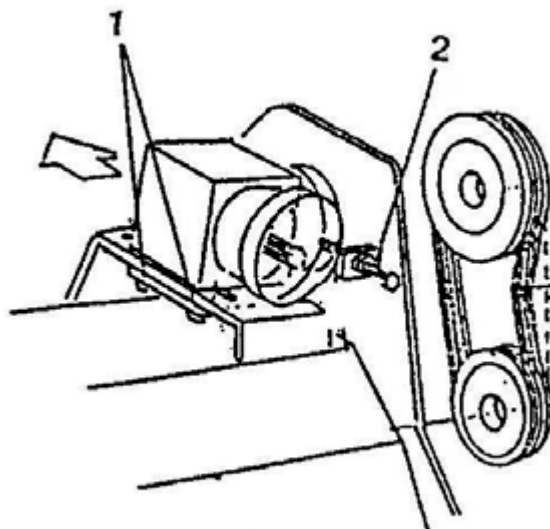
FIG.16



9.2. Belt replacement

- This operation must be carried out with the machine touching the ground, the power takeoff disconnected and the starting key out
- Remove the belt guard, slacken the screws(1) (FIG.17), unscrew the tightener (2), remove the belts and replace them with the same ones (dimension and type).

IMPORTANT: more complex operations must be done in authorized workshops. FIG.17



10 DEMOLITION, SEPERATION OF THE MATERIALS AND DISPOSAL

If the machine is out of order, all its parts that might cause dangers have to be made inoffensive. The materials, forming the machine that have to undergo separation, are:

- steel
- mineral oil
- rubber
- plastic

All the above mentioned operations and the disposal have to be carried out in total respect of the present provisions of law on the subject

11SPARE PARTS

No.	PART	Part No.	Quantity			
			105	115	130	150
1	FRAME 105	15105	1			
	FRAME 115	15106		1		
	FRAME 130	15106			1	
	FRAME 150	17410				1
2	CONNECTING BOW	15346	1	1	1	1
4	ROTOR 105	10433	1			
	ROTOR 115	10434		1		
	ROTOR 130	10435			1	
	ROTOR 150	17438				1
5	ROLLER REAR 105	10454	1			
	ROLLER REAR 115	10455		1		
	ROLLER REAR 130	110456			1	
	ROLLER REAR 150	17430				1
6	BELT SHIELD	110461	1	1	1	1
7	SKID LEFT	10467	1	1	1	1
	SKID RIGHT	10468	1	1	1	1
8	ROLLER BRACKET	10445	2	2	2	2
8a	PTO SHIELD HOLDER	10510	1	1	1	1
9	GEAR BOX	11899	1	1	1	
	GEAR BOX	17290				1
10	DRIVE PLATE	10480	1	1	1	1
11	DRIVE FLANGE	10472	1	1	1	1
13	FLAP	11436	5	6	7	10
	FLAP	10473	2	2	2	
14	FLAP ROD 105	10477	1			
	FLAP ROD 115	10478		1		
	FLAP ROD 130	10479			1	
	FLAP ROD 150	17437				1
15	PULLEY 200	12530	1	1	1	1
16	PULLEY 90	12529	1	1	1	1
17	STRAIN PULLEY	10542	1	1	1	1
18	BELT IDLER	10359	1	1	1	1
19	ELVE CLUTCH 25	12207	1	1	1	1

No.	PART	Part No.	Quantity			
			105	115	130	150
20	ELVE CLUTCH 30	12208	1	1	1	1
21	ROTOR FLANGE	10419	2	2	2	2
22	WASHER 10	12440	1	1	1	1
24	PIN FI 19/25	10991	1	1	1	1
25	PIVOT PIN M24/1.5	10940	2	2	2	2
26	SHAFT SHIELD	12471	1	1	1	1
27	BELT 1060	12526	2	2	2	2
28	HAMMER BLADE	12052	14	16	18	20
29	Y BLADE	10867	28	32	36	40
30	Y BLADE SLEEVE	12462	14	16	18	20
31	Y BLADE DISTANCE SLEEVE	10771	28	32	36	40
33	SAFETY PIN 10	10338	3	3	3	3
35	BEARING WITH CASING 16206	12692	2	2	2	2
37	BEARING WITH CASING 16205	11956	2	2	2	2
38	BEARING 6204	10379	1	1	1	1
39	BOLT 8/15	12024	4	4	4	4
42	BOLT 10/20	10257	7	7	7	7
43	BOLT 10/25	12026	4	4	4	4
44	BOLT 10/30	10259	15	15	15	15
45	BOLT 10/35	10260	4	4	4	4
46	BOLT 10/60	10263	1	1	1	1
47	BOLT 12/30	10270	2	2	2	2
48	BOLT 14/80	11933	14	16	18	20
50	NUT 8	10188	4	4	4	4
51	WASHER 8	10218	4	4	4	4
52	LOCKNUT M10	10202	13	13	13	13
54	LOCKNUT M14	10204	14	16	18	20
55	NUT 10	10189	9	9	9	9

No.	PART	Part No.	Quantity			
			105	115	130	150
56	NUT 34	11886	2	2	2	2
58	SLIDE PIECE	10406	1	1	1	1
59	WASHER 10	10219	22	22	22	22
60	WASHER 12	10220	12	12	12	12
61	WASHER 14	10221	2	2	2	2
62	SPRING WASHER 10	10232	23	23	23	23
63	SPRING WASHER 24	10660	2	2	2	2
64	SLIDE PIECE	11653	1	1	1	1
66	SPLIT PIN	10449	1	1	1	1
67	BOLT M12/16	10662	6	6	6	6
68	SPRING WASHER 12	10233	6	6	6	6
69	LINKAGE HOLDER 105 FRONT	17727	1			
	LINKAGE HOLDER 115 FRONT	17728		1		
	LINKAGE HOLDER 130 FRONT	17729			1	
	LINKAGE HOLDER 150 FRONT	17730				1
70	BOLT M10/25	12026	5	5	6	6
71	WASHER 10	10219	5	5	5	5
72	LOCKNUT M10	10202	5	5	5	5
73	WASHER 20	10224	1	1	1	1
74	RUBBER 105	18047	1			
	RUBBER 115	18048		1		
	RUBBER 130	18049			1	
	RUBBER 150	18050				1
75	BAR FOR RUBBER 105	10843	1			
	BAR FOR RUBBER 115	10844		1		
	BAR FOR RUBBER 130	10845			1	
	BAR FOR RUBBER 150	10846				1

