VL-AM80 Boom Hedge Cutter

Value Leader

est.1995

OPERATION & PARTS MANUAL

Please read these instructions before using. Always grease all fittings and be sure to always check and fill with oil before operating! Retain this manual for future use.

BETSTCO
RUGGED LABOR SAVING EQUIPMENT SINCE 1995
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Value Leader

Specifications subject to change without notice

Introduction

The Value Leader range of hedge cutter is designed to meet all the requirements of farmers, contractors and municiple users in the cutting of hedges, ditches, embankments and roadsides.

The result is a range of hedge cutter, with excellent handling characteristics, robust and capable of a long trouble free life.

They are disigned to be mounted into agricultural tractor three point systems. When mounted the machine is stabalized by means of two stabablizer bars between the machine and the tractor.

NEVER use the machine for any other purpose than that for which is was designed (See this manual)

In particular:

NEVER USE THE ARMS LIKE A CRANE

Congratulations and thank you for buying a Value Leader Hedge Arm Mower. This machine is built for a long and trouble free life, but this will depend on its correct use and maintenance.

It is essential to respect some simple rules

First of all, READ THIS MANUAL CAREFULLY

The most important points are as follows

1. Do not exceed the maximum PTO speed of 540 RPM
2. Adjust the rotation of the rotor to suit the type of work to be carried out
3. The roller must be used to limit the height of cut and NOT to support the machine
4. Grease the rotor and the roller bearings twice a day
5. Grease the rest of the machine once a day
6. Replace the filter after 50 hours and check the oil level
7. Check all nuts and bolts on the cutting head regularly
8. Check drive belt tension regularly
9. Make sure that all hydraulic unions are kept tight and do not leak
10. Never use the machine if the rotor is out of balance
11. Never cause the rotor to block

If this happens frequently, it indicates:

Too high of a forward speed

The rotor is turning the wrong way for the type of work

The PTO speed is incorrect

There is a problem in the hydraulic system

<u>The use of non-original spare parts can invalidate the warranty</u>

BASIC SAFETY AND HEALTH REQUIRMENTS

WARING DANGER

NEVER try to assemble, connect or start the machine before understanding completely the functions,
the controls and all the necessary safety precautions, as illustrated in the instruction manual.

Always follow VERY CAREFULLY all the instructions for both the hedge cutter and the tractor, especially those concerned with safety.

NEVER LEAVE THE DRIVER'S SEAT OF THE TRACTOR AS LONG AS THE ENGINE OR THE MACHINE IS WORKING.

NEVER USE THE HEDGE ARM MOWER ARMS LIKE A CRANE IN ANY WAY.

After mounting the hedge mower to the tractor, it may be necessary to stabilize the whole unit by ballasting the back wheels of the tractor and/or by fitting the tractor with some counterbalance weights.

The track of the tractor can be widened; this will increase the stability of the unit.

VERY IMPORTANT

Understand the meaning of all the DANGER and INSTRUCTION labels that are on the machine; all precautions must be taken and all the instructions respected.

If you need some advice, or some help, or if you do not understand a part of this handbook, or of the machine, contact Betst Products.

If you are not sure, NEVER SUPPOSE-DEMAND EXPLANATIONS.

The machine MUST NOT be rebuilt or modified in any part without the written authority of the manufacture.

The manufacture declines all responsibilities for a machine that has been modified without its written consent.

NEVER try to repair, adjust, or work on the machine in any way if it is not safely supported

ALWAYS MAKE SURE THAT THE MACHINE IS LIFTED AND LOWERED SAFELY

WARNING DANGER

Before executing any repair or operation on the tractor, or on the hedge cutters, ALWAYS make sure that the wheels of the tractor or another prime mover are positively blocked from any movement.

BEFORE ANY ADJUSTMENT, REPAIR OR CONTROL TO THE HEDGE CUTTER, ALWAYS STOP THE ENGINE OF THE TRACTOR.

Always be aware of all that is around you and use the machine with care.

Fully take notice of your working area, with particular regard to any buildings, power lines, steep slopes, wire, or any other hazardous material that may affect the working of the machine.

Always keep all persons and animals well clear of the working area.

Drive and operate the machine taking in to consideration the weather conditions-sun, rain, ice, snow, wind etc.

GENERAL DIRECTIONS

1- Before connecting the machine to the tractor, make sure that it is standing on a solid and level surface. (It is important to take the machine off the tractor in a suitable place, so that it can be easily reconnected the next time it is needed.) Make sure the machine is correctly supported and that the transport locks are in position to prevent the arm dropping when the machine is lifted.

2- Before, or during all maneuvers of the tractor or vehicle concerned with the process of connecting the hedge mower, make sure that NO ONE is nearby. Make sure that all persons keep at a safe distance: ALWAYS take care during maneuvers in reverse and when aligning the hedge mower with the tractor.

3- ALWAYS ensure that the tractor brakes are applied correctly, so that the tractor can be kept in the chosen position during the mounting of the machine. This will stop any movement to the vehicle, which could cause injury or damage.

4- Make sure that the stabilizer bars and the top link are connected on the machine correctly. You must use only good quality pins on the three point linkage attachment. Lock the pins with lynch pins.

5- If it is necessary to adjust or to overhaul the machine when it is connected to the tractor, you MUST put some suitable stand or supports under the machine to avoid any accidental lowering of the arms and/or the machine. Make sure that any stands are on firm and level ground

THE MACHINES MUST BE <u>ALWAYS</u> SUPPORTED AND LOWERED WHEN BEING ADJUSTED OR REPAIRED

6- NEVER work, adjust, overhaul or repair any machine while it is in motion. Before starting the adjustments, overhauls, repairs, always stop the machine and TURN OFF THE ENGINE OF THE TRACTOR.

BEFORE LEAVING THE DRIVER'S SEAT OF THE TRACTOR, TURN OFF THE ENGINE OF THE TRACTOR.

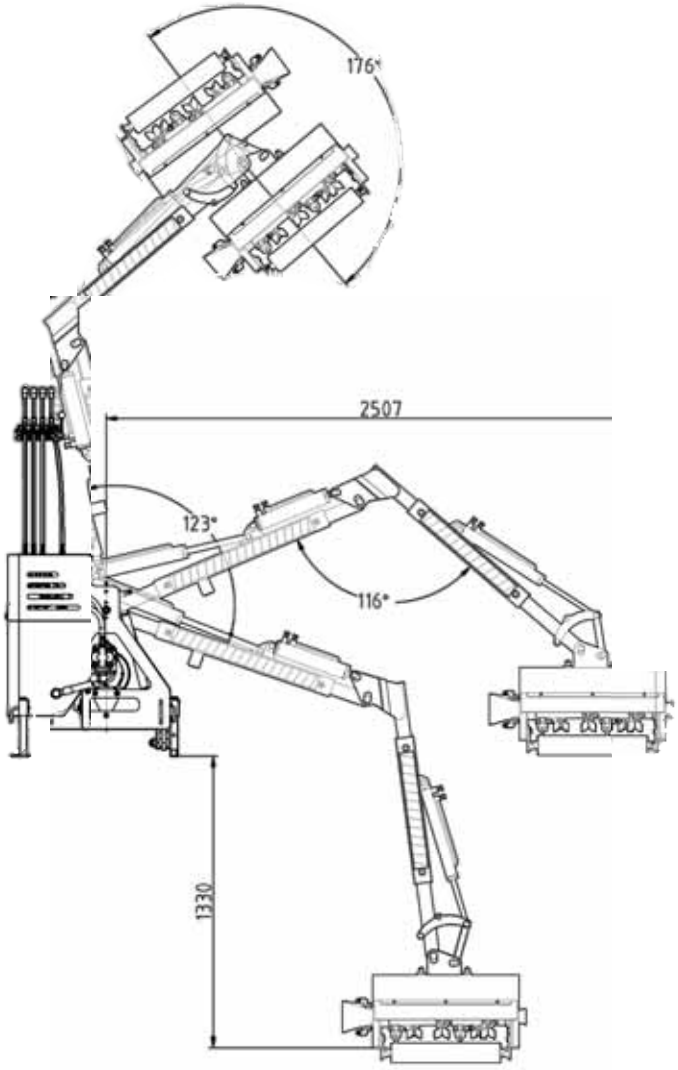
7- In transit, always use the transport supports or the chains where provided. In case of larger machines, the hedge mower is transported with the arms to the rear: this may make the tractor unstable. Make sure that there is enough front ballast to maintain stability.

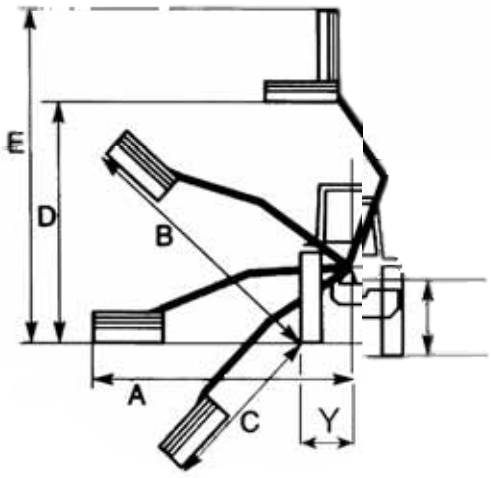
8- ALWAYS use the machine with care. Do not use it for any other works except that for which it was designed. Do not overload the machine because this could be the cause of damage to the machine and/or to the tractor.

9- When you take the machine off the tractor, make sure that the support feet are in safe position. The machine must be parked in a place where it is not dangerous or a possible obstruction for other people. Make sure that the ground is firm and level.

10- Carry out regular and periodic maintenance during the working life of the machine to make sure that the machine is ALWAYS in a safe condition.

11- THE HEALTH AND SAFETY INSTRUCTIONS MUST ALWAYS BE RESPECTED.



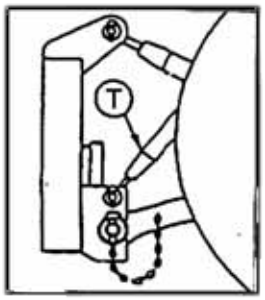


MODEL	AM-60	
PECIFICATION	Inch	Metric
Structure Weight	573lb	260kg
Cutting Width	23.6"	600mm
Flail Type	Y Blade	
Number Of Flails	24	
Oil Capacity	12.1bal	55L
PTO Speed	540r/min	
Tractor HP	18-50hp	
A	8.23'	2510mm
B	6.56'	2000mm
C	3.94'	1200mm
D	4.92'	1500mm
E	7.55'	2300mm
X	2.36'	720mm
Y	2.30'	700mm

CONNECTING THE HEDGE CUTTER TO THE TRACTOR

1- Connect the bottom links of the tractor to the machine, making sure that the pins are securely locked with lynch pins.

2- Attach the top link and secure with the lynch pins. Lift the machine, so that the PTO of the tractor is at the same level and in line with that of the machine.



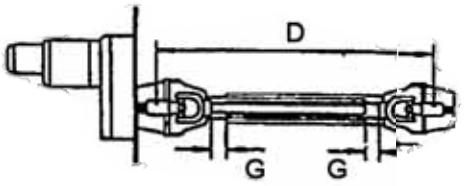
Adjust the check chains or sway blocks so that the machine is not free to swing sideways.

Check that the safety lynch pins are in position and that all lock nuts are tightened.

WARNING DANGER: NEVER stand between the tractor and the machine during the hook up operations.

3- PTO shaft:

Before this operation READ CAREFULLY the instructions that are included in the handbook given with the PTO shaft.



Make sure that the input shaft of the mower and the PTO shaft of the tractor are in line and at the same height. Measure the distance D between the recesses on the tractor PTO shaft and that of the input shaft on the machine gearbox. Adjust the length of the PTO shaft to give a clearance G of at least 50 mm (2") at each end of the shaft. Make sure that all PTO shaft guards are refitted and in good condition.

NEVER USE THE PTO SHAFT WITHOUT ALL OF ITS GUARDS FITTED AND IN GOOD CONDITION. Always attach the chains on both ends of the PTO guard to an appropriate point so that the guard cannot turn.

4- Fitting of stabilizer turnbuckles "T"

The machine has two STABALIZER TURNBUCKLES: for their assembly and disassembly it is ESSENTIO-NA TO READ the following instructions:

Raise the main body of the machine up to work position

Fix the two turnbuckles with the pins provided between the top hole of the bottom linkage attachment points on the machine (see picture) and the holes provided in the top link yoke of the machine.

Tighten the turnbuckles so that the machine is locked and will not move. Lower the linkage making sure that there is no upwards pressure on the stabilizers.

FOR CORRECT AND SAFE USE OF THE MACHINE THE TWO TURNBUCKLES " T "MUST BE FITTED AT ALL TIMES

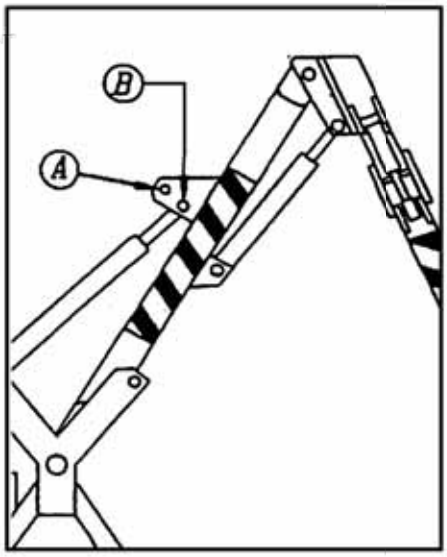
SEMI-AUTOMATIC HOOK UP TO THE HEDGE CUTTER

Raise the quick hitch bar to the height of the bottom link connection points on the mower, remove the lock pins from the mower and back in slowly until the hitch bar is fully located.
Lock the bar into place with the lock pins. Fit the PTO shaft and top like
Raise the machine to its correct working height and fit the stabilizers as described above.

CONNECTING THE HEDGE CUTTER TO THE TRACTOR

5 - ADJUSTIMENT OF THE WORK POSITION

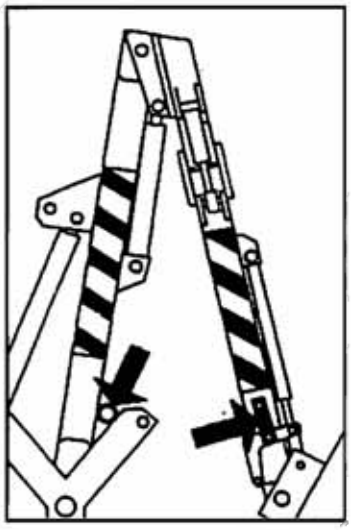
The work position (distance 4 - 5 cm from ground) is obtained working on the back roller: if, after lowering completely the roller a higher height is needed, you can act on the connecting-rod of the third tie-down point by loosening. (this adjustment must be done with caution because it produces a back inclination of the machine. The best position of work is always when the machine has the arms in vertical position).



6 - ADJUSTIMENT OF THROAT DEPTH

To obtain the max throat of the Hedge - Cutter, put the hydraulic jack of the arm in the hole "B" (see the picture); In order to draw it, put the hydraulic ram in the hole "A".

WARNING : THIS OPERATION MUST BE DONE ONLY AFTER PUTTING THE BUSH-CUTTER ON THE GROUND .



7 - TRANSPORT POSITION ON THE ROAD

The machine is provided with special piston pins of safety; they prevent the movements during transport on the road (see the picture)

NEVER TRAVEL WITHOUT PUTTING THE PISTON PINS OF SAFETY; THIS WARNING PROTECTS THE MACHINE AND AVOIDS THE POSSIBILITY OF ACCIDENTS.

IN THE CASE OF DAMAGES TO THE BUSH-CUTTER , CAUSED BY INOBSERVANCE OF THE ABOVE MENTIONED INSTRUCTION OF SAFETY, THE MANUFACTURING FIRM DOES NOT RECOGNIZE ANY WARRANTY.

IN THE CASE OF DAMAGES TO A THIRD PARTY BECAUSE OF INOBSERVANCE OF THE ABOVE MENTIONED INSTRUCTION, ALL THE RESPONSIBILITIES ARE OF THE DRIVER OF THE VEHICLE.

DO NOT MAKE UNSKILLED STAFF DRIVE THE TRACTOR

NEITHER DURING THE TRANSFERS!

TAKING THE HEDGE CUTTER OFF OF THE TRACTOR

1. Choose a level and firm surface with good access
2. VERY IMPORTANT. Using the hydraulic system, close the head angling ram, then the hedge and the reach rams to bring the machine into the rest position. Fit the parking stands.
3. Stop the PTO shaft and TURN OFF THE ENGINE OF THE TRACTOR
4. REMOVE THE STABALIZERS. Lower the hedge mower to the ground (by lowering the linkage of the tractor). If necessary adjust the linkage so that the machine is resting completely on the ground. Make sure that the hedge mower is in a correct rest position and well placed on its feet.
5. Remove the chains holding the PTO guard and then remove the PTO shaft.
6. Disconnect the top link and then the bottom links
7. Remove the hedge mower controls from the tractor and store them in their parking place on the machine
8. Drive forward very slowly checking that all connections to the tractor are free. Removing the cab protection is necessary.

WORKING OF THE HEDGE CUTTER

The driver must fully understand the controls and the capacity of the tractor. It is always recommended that the driver practice the controls and the working of the hedge mower in a safe location BEFORE beginning work.

The forward speed that can be achieved will be different depending on the type and the quantity of the material that has to be cut. Choose a speed suitable for the job to be done. Make sure that the PTO speed of the tractor is 540 RPM for general use. This speed will give the best cut.

VERY IMPORTANT: THE PTO MUST NEVER EXCEED 540 RPM

WARNING DANGER

ALWAYS keep the cutting head as close to the tractor as possible to maintain the greatest stability.

NEVER direct the cutting head and the flails towards the operator when the machine is in motion.

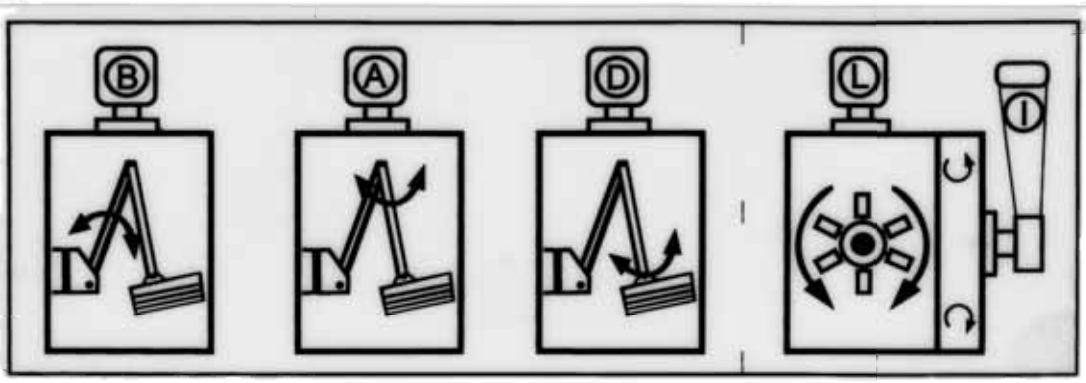
MAXIMUM CUTTING THICKNESS:

Hard wood 3cm. (1.18”)
Soft wood6 cm. (2.36”)

ALWAYS adjust your forward speed according to the type of the material to be cut

ARM CONTROL

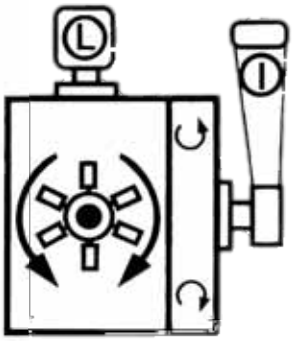
FIX THE SET OF LEVEL CONTROL TO THE TRACTOR IN A HANDY POSITION.



LEGEND ON LEVERS	LEVER Forward	Backward
I Reversal of rotor rotation L Rotor start/stop	Rotor rotation up at the front	Rotor rotation down at the front
B Main arm up/down	Main arm down	Main arm up
A Reach in/out	Reach out	Reach in
D Head angling	Clockwise	Anti-clockwise

REVERSE THE ROTOR ROTATION (LEVER I AND L) ONLY WHEN THE ROTOR IS COMPLETELY STOPPED: CARRYING OUT THIS OPERATION WHEN THE ROTOR IS IN MOTION CAN DAMAGE THE HYDRAULIC MOTOR

Fix the set of **CABLE CONTROLS** or the **ELECTRIC MONOLEVER** to the tractor in a convenient position for their use, making sure that they do not obstruct the entry or exit of the tractor cab



LEGEND OF LEVERS	LEVER Forward	Backward
I Reversal rotor rotation L Rotor start/stop	Rotation up at the front	Rotation down at the front

VERY IMPORTANT

Reverse the rotor rotation (lever I and L) only when the rotor is completely stopped: Carrying out this operationn when the rotor is in motion can damage the hydraulic motor

USE OF THE MACHINE ON THE ROAD

Before using the hedge cutters on the roadside, the operator must consult the authorities that control the upkeep of the roads, as the rules can be different from one area to another.

The rules concerning the upkeep of the roads must always be respected.

ATTENTION

In general the tractor or any other prime mover must work in the direction of the traffic; this must be confirmed by consulting the local laws concerning the upkeep of the roads.

ALWAYS use the traffic signs, or any other systems recommended by the maintenance services and make sure that they are in a correct position in relation to the work being carried out.

Respect the movement of the traffic and try to ensure that it flows freely. Give enough time for pedestrians and cyclists to get clear of the working area.

Obey the laws on the lighting to be used on the tractor during work on the highway.

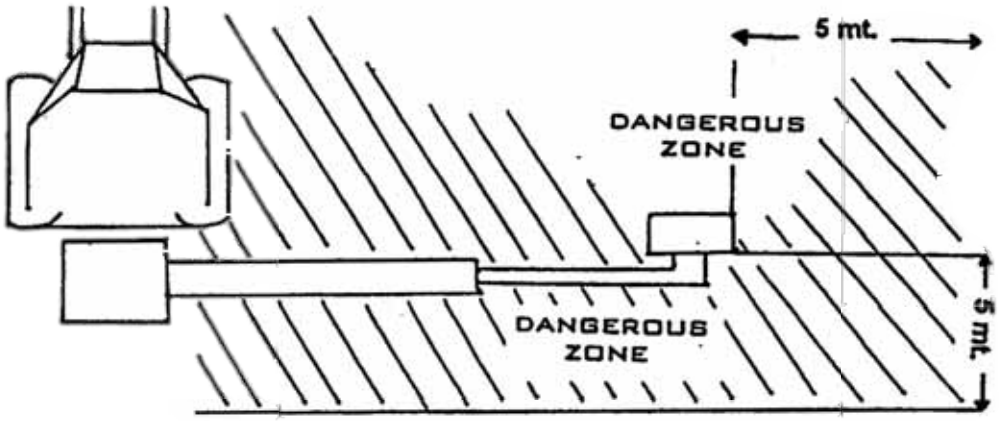
VERY IMPORTANT

Never transport passengers on the tractor or on the machine.

Make sure that “onlookers” are clear of the working zone of the machine.

Never allow anyone in front of the cutting head, or in the ejection radius of the cut material.

You must always maintain a safety zone around the machine:



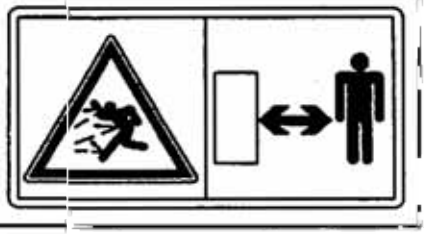
VERY IMPORTANT

NEVER start the cutting head with the flails facing the operator or any other people.
ALWAYS work the machine with the cutting head addressed towards the material to be cut
Never pass under the hedge cutters particularly if it is on the road

WORKING WITH THE HEDGE CUTTER

1. Remove or disconnect the transport locks.
2. Using the level R and making absolutely sure that the area is clear of people and obstacles, power the arm to its working position.
3. Angle the head so that it can be lowered close to the ground. Keep the rotor clear of the material to be cut.
4. Start the rotor by engaging the lever L and increase the PTO speed to 540 RPM
5. Lower the head into the work and move forward at a suitable speed for the type and quantity of material to be cut.

WARNING DANGER
Even with all the guards fitted some material may be ejected from the mower.
It is ESSENTIAL that all persons and animals are kept out of the working area described below.



Keeping the flail head horizontal to ground level allows the machine to be used with the greatest safety. ALWAYS KEEP A CLEAR SAFE WORK ZONE OF AT LEAST 10 METERS (33 FT)

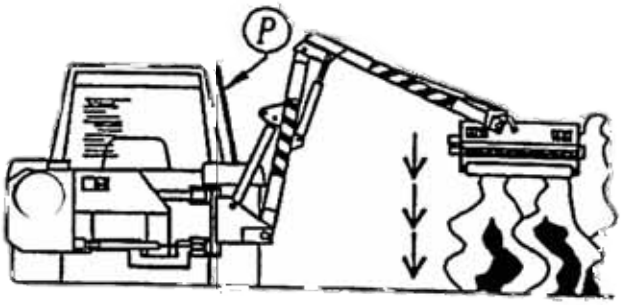
Check often that no one has entered this working zone and caused a dangerous situation

When working on the roadside which is open to traffic, always place warning signs at the correct distance from your work to alert passing traffic. Be aware of passing traffic and be prepared to stop immediately

When working in areas where there are stones, raise the machine so that it does not come into contact with the stones and increase the safe work zone to at least 20 meters (66FT)

Cutting hedges, reeds and shrubs

When the material to be cut exceeds 70-80 cm (28”-32”) in height, take more than one pass to complete the job, cutting 20-30cm (8”-12”) each pass.



WARNING
The use of the flail head off the ground or at an angle other than horizontal to the ground can cause danger to the driver. In this case the cab guards P must be fitted to the side window of the tractor.
The manufacture declines all responsibility for any accident caused by NON-OBSERVANCE of this instruction
The guard must be made of a strong steel mesh with a mesh size of no more than 2 cm (0.75”)

STORING OF THE MACHINE

When storing the machine, it is very important to find a level and firm parking surface.

VERY IMPORTANT

To make sure that the machine is safely parked, ALWAYS place the machine on its support feet. Make sure that the support feet of the machine are locked in a correct position.

NEVER allow children to play above or around the machine in its parking position

NEVER wear large or torn clothes because they could get entangled in the mechanism of in the controls.

ALWAYS be sure that the guards are in the correct position to protect the operator from the flying material.

Be sure that the visibility through the cab screens is ALWAYS good.

Be sure that the controls, joysticks, levers etc are in a correct position, so that the operator can use them without difficulty and at the same time they do not prevent the other driving functions.

The controls MUST NOT hamper the entrance and the exit of the cab.

The exhausted oil and the other noxious products must be always thrown in special waste containers, legally certified and suitable for containing the product in question.

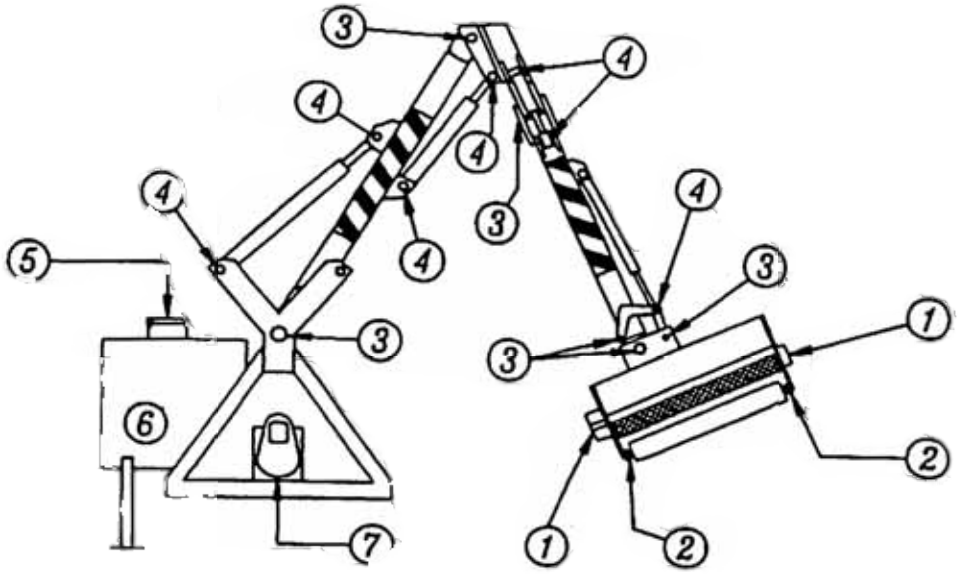
ALWAYS DISPOSE OF THE EXHAUSTED PRODUCTS IN SPECIAL AUTHROIZED DISPOSAL AREAS.

During transport of the hedge mower from one place to another, in particular when working, some passive movements of the arms can take place because of rough surfaces; so, it is VERY IMPORTANT to put the arms and the cutting head in the correct transport position BEFORE beginning transport. (See the respective paragraph).

LEVER AND JOYSTICK SAFETY

The control levers that set the hydraulic cylinders of the arms of all types of machines return to the neutral position when the lever is free. This system is important in order to avoid any involuntary movements or displacements of the arms.

MAINTENANCE OF THE MACHINE



1) ROTOR HOUSINGS:	Grease every 4 working hours; grease IMMEDIATELY if the cutting head has worked into the water.
2) ROLLER BRACKETS:	Grease every 8 working hours; grease IMMEDIATELY if the machine has worked into the water.
3) MAIN ARTICULATION JOINT	Grease every 18 working hours;
4) ARMS JOINTS:	Grease every 18 working hours;
5) OIL FILTER:	Clean the filter cartridge after the first 30 working hours and then every 150 hours;
6) HYDRAULIC OIL:	Replace the hydraulic oil (AGIP OSO 46) after the first 1200 working hours;
7) GEARBOX GROUP:	Replace the oil (AGIP ROTRA 80W90) after the first 150 working hours and then every 600 hours;

a) After the first 20 working hours and then periodically, check the tightening of:

All the bolts, also on the gearbox and pumps:

Hoses connections

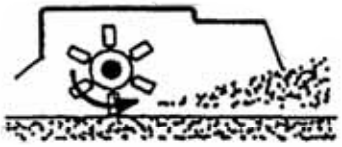
b) If vibrations occurs, stop working immediately, disengage the PTO and check the conditions of the blades. Make sure that they swing free and, if necessary, replace those broken or worn out. Before proceeding with operations, the machine must be closed in transport position.

c) Always keep the rotor clean. If necessary, remove foreign material that might be kinked inside the cutting head and/or around the rotor.

ROTOR ROTATION

The rotor of the machine can be operated in either direction

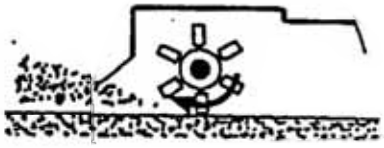
WORKING DIRECTION →



Rotor turning up at the front

Use for grass mowing, ditch mowing and light hedge cutting

WORKING DIRECTION →



Rotor turning down at the front

Use in stoney ground and for heavy growth.

WARNING - WARNING

DO NOT REVERSE THE ROTATION OF THE ROTOR WHEN THE ROTOR IS IN MOTION

DANGER SIGNALS

WARNING: DANGER TO THE HANDS

Before attempting any manual operations wait for the rotor to stop completely. Switch off the PTO and stop the engine of the tractor.

WARNING: DANGER TO THE FEET

Never approach the mower when it is working and keep feet, hands and clothing well clear at all times.

HYDRAULIC CONTROLS – CUTTING POSTION

The cutting head must be lowered slowly until it is in work position. NEVER drop the cutting head. When you have to cut at ground level (grass etc), the cutting head must be lowered slowly until the roller is just exerting a small amount of pressure on the ground.

IMPORTANT: Keep the rotor and roller clear of rocks, stones, stumps etc.

If you meet a large obstacle or you see wire twist around the rotor, you MUST STOP IMMEDIATELY. Remove the obstacle or the wire before starting again.

The operator can circumnavigate normal obstacles by slowing down and moving the position of the head. Some degree of float can be achieved by the use of an optional float system. This will allow the head to follow the contours of the ground within the limits of the system.

CUTTING HEAD

The rotor of the cutting head is balanced before it is assembled into the head: this makes for vibration free operation. If the rotor should vibrate or lose one or more blades, STOP THE MACHINE IMMEDIATELY, because if you continue there could be some serious consequences, like damage to the bearings and weakening of the structure.

When you stop the machine, clean the rotor and check that no flails or bolts are missing; if they are, replace them immediately with only genuine spare parts.

Vibration can also be the consequence of a shock against a solid object; in this case the rotor must be rebalanced, repaired or even replaced.

TRANSIT

1. Reduce the reach of the machine by operation of the reach arm.
2. Turn the flail head until it is nearly perpendicular to the angling arm.
3. Using the breakaway ram, swing the dipper arm to the rear.
4. Operate the reach ram until the ram is completely closed
5. The hedge mower is ready for transport on the road.

ADJUSTMENT OF THE WORKING POSTION

The work position (distance 4-5 cm {1 1/2'-2'} from the ground) is obtained by adjusting the back roller: if, after lowering the roller completely a higher cut is still needed, the top link can be lengthened. This must be done with care, making sure that the top link does not become completely unthreaded. The machine must not be leaning back too much as the breakaway will operate too easily. The machine works best when it is set in the vertical position. When mowing high beware of material being ejected from the mower an INCREAASE THE SAFE WORKING ZONE TO AT LEAST 20 meters (66 FT).

IN THE CASE OF DAMAGE TO THE HEDGE MOWER, CAUSED BY NOT OBSERVING THE ABOVE MENTIONED INSTRUCTION OF SAFETY, THE MANUFACTURER DECLINES ANY WARRANTY.

IN THE CASE OF DAMAGE TO A THIRD PARTY CAUSE BY NOT OBSERVING THE ABOVE MENTIONED INSTRUCTIONS ALL THE RESPONSIBILITIES ARE BOURNE BY THE DRIVER OF THE VEHICLE.

DO NOT ALLOW UNSKILLED STAFF TO DRIVE THE TRACTOR EVEN DURING TRANSPORT!

LUBRICATION POINTS

A label that indicates the grease points and shows the picture of a grease gun is placed on every pivot pin of the arms and the rams. These points must be lubricated every day. The roller and the rotor bearings must be lubricated twice a day.

PTO SHAFT

You must check the PTO shaft every week, in particular, the mechanical slide and the plastic guard. Any damage to the guard must be repaired and you MUST use the anti-rotation chains.

The universal joints must be lubricated in accordance with the instructions provided by the shaft manufacture. Every fifteen days, the internal shaft must be lubricated over all its length in order to ensure that it slides correctly.

HYDRAULIC OIL

NOTE: the oil tank is fitted with two filters: one filter is on the oil tank and the other one is inside-to filter the oil on entry and exit.

It is advised that different types of hydraulic oil should **NEVER BE MIXED**; but, if you have to use a type of oil different from the oil that you previously put in the oil tank, it must be compatible. (Check with your oil supplier).

If the return filter is very dirty, clean it. This should be considered as a temporary measure, in most cases, it is better to change the filter.

VERY IMPORTANT

THE OIL FILTER MUST BE CHANGED AFTER THE FIRST 50 WORKING HOURS AND EVERY 250 WORKING HOURS THEREAFTER.

The oil level should be checked every day by looking at the gauge near the return filter.

Contamination of the oil will necessitate a complete oil change: contamination may show as darkness of color and/or a smell of burning.

Clean the area around the oil filling cap (in particular before you open it). Replace the filter in good time and use clean receptacles to reduce the danger of contamination of the oil.

Clear the fins of the oil-cooler periodically with a jet of air.

GEARBOX

Check the oil level regularly by means of the glass indicator on the gearbox. Change the oil every season.

PIPES AND HOSES

You must check all pipes and hoses regularly to make sure that the metal braiding is not damaged.
If there is damage, the damaged pipes/hoses should be replaced because their pressure capacity will be reduced and this will increase the risk of a burst.
When you replace a hose it is important TO USE A LOT OF CARE because every new pope has to be assembled in the same position as the one substituted. The direction of the pipe run must also be the same.
Check the hydraulic connections every day to make sure that there are no leaks.

CABLES AND CONTROL HANDLE

No maintenance of the cables and the controls is needed and they must not be greased.
If the controls are hard, check that there are no twists in the cable and that there are no broken or loose internal components.

CUTTING HEAD

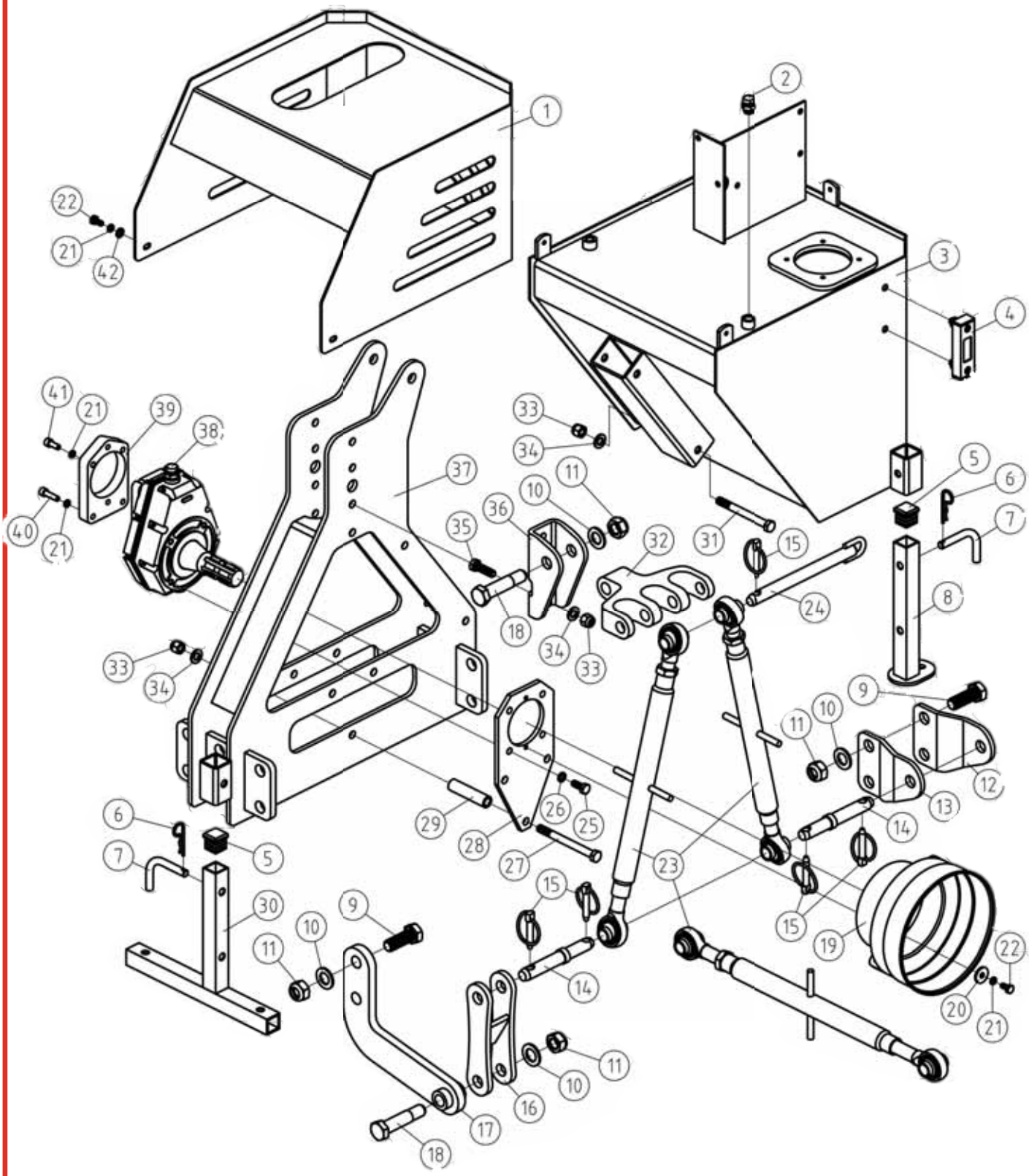
Check the flails every day and make sure that they are always in GOOD CONDITION.
Check the nuts and bolts every day; they must always be tight.
A missing or broken flail must be replaced IMMEDIATELY because the loss of the balance causes damage to the bearings and to the structure.
In regards to the replacement of the flails, it is important to remember that you must REPLACE THEM IN PAIRS in order to maintain the balance.

INDIRECT TRANSMISSION ROTOR: Check the tension of the drive belts on the cutting head every day; a load of 5 kg (11 lb) must five a deflection of 9 mm (0.35”) when applied to the belts in the center between the pulleys.
The access to the belts is gained by lifting the protection panel on the side of the belt casing.
You can adjust the tension of the belts by lessening the screws that fix the motor and then by adjusting the special internal adjuster screw. Re-tighten the motor screws and the screws securing the panel.

BEFORE STORAGE
Clean the hedge mower and check for any damage or necessary repairs.
Obtain the spare parts and compete the repairs in good time of the next season.
Grease the machine well, IN PARTICULAR the rods of the hydraulic cylinders.
Do not expose the machine to inclement weather; if it is possible keep the machine covered.

INDERECT TRANSMISSION ROTOR: The tension of the drive belts of the cutting head must be loosened to protect the belts.

PARTS LIST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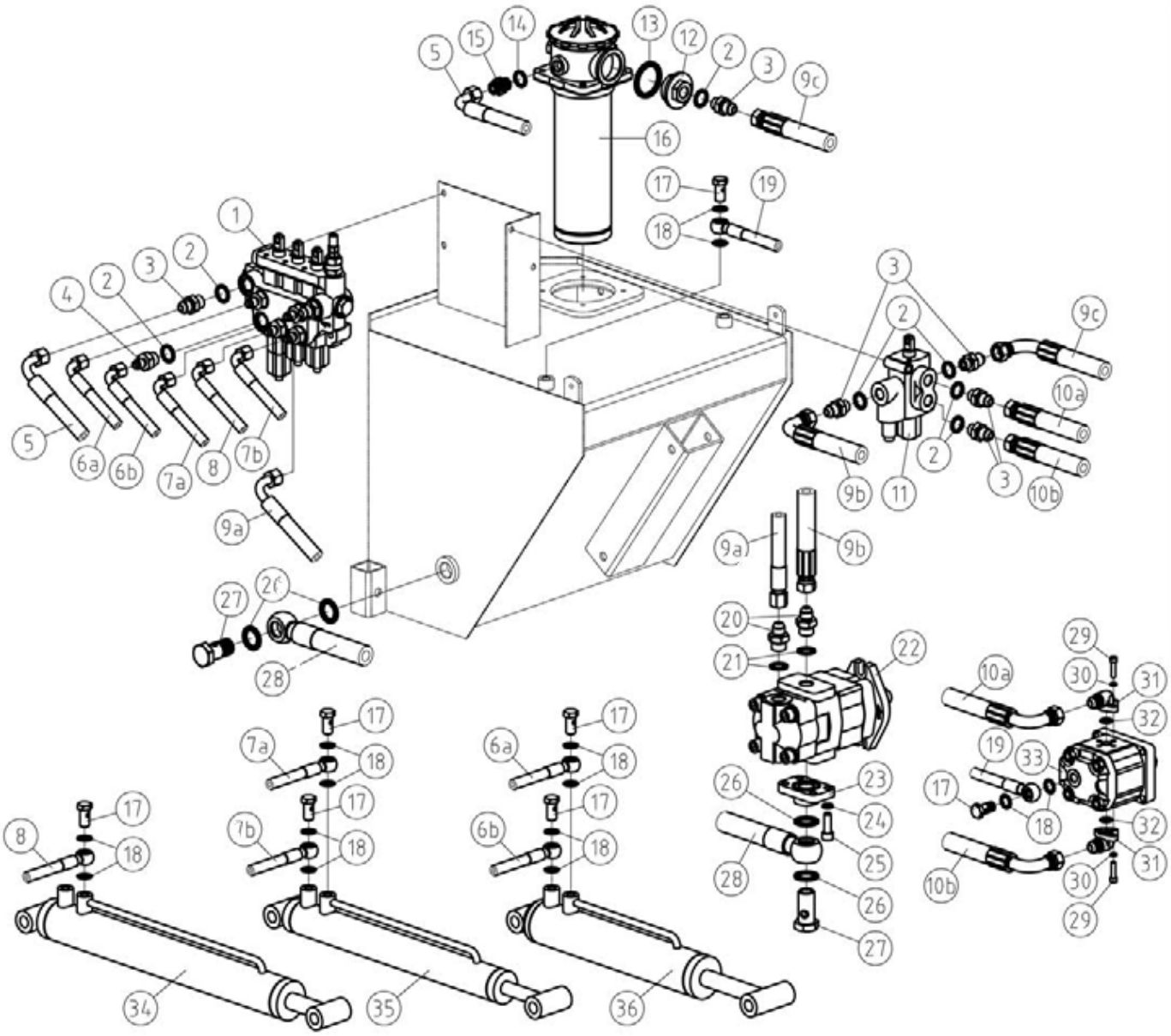
PARTS LIST

No.	Part No.	Parts Description	Remark
1	AM60.03.016	Oil tank cover	
2	CBW-00.011	Oil plug	
3	AM60.03.017	Oil tank	
4	JB/T 7941.3-1995	Oil level	
5		Rubber cover	
6		R pin	
7	EF100.00.111	Support peg	
8	AM60.03.018	Bearing foot	
9	GB5783-86	Screw M20*55	
10	GB97.1-85	Plain washer 20	
11	GB6184-86	Nut M20	
12	AM60.03.114	Bottom Mount board A	
13	AM60.03.115	Bottom Mount board B	
14	AM60.03.113	Pin shaft	
15	200.56.011	Lock pin	
16	AM60.03.021	Hanging Weldment	
17	AM60.03.022	L Shape Plate	
18	GB27-88	Screw M20*95	
19	FM120.00.401	PTO cover	
20	GB5287-85	Plain washer8	
21	GB93-87	Spring washer 8	
22	GB5783-86	Screw M8*16	
23	AM60.03.020	Adjust plate	
24	AM60.03.019	Upper mount board weldment	
25	GB5783-86	Screw M10*25	
26	GB93-87	Washer10	
27	GB5782-86	Screw M12*130	
28	AM60.03.102	Fixed board for gear box	
29	AM60.03.101	Sleeve	
30	AM60.03.010	Bearing foot	
31	GB5782-86	Screw M12*120	
32	AM60.03.112	Triple link	
33	GB6184-86	NUT M12	
34	GB97.1-85	Plain washer12	
35	GB5783-86	Screw M12*40	
36	AM60.03.111	Upper mount fram	
37	AM60.03.011	Fram weldment	
38	AM60.03.012	Pump	
39	AM60.04.102	Outer Support for Pump	
40	GB70.1-2000	Screw M8*30	
41	GB70.1-2000	Screw M8*20	
42	GB97.1-85	Plain washer 6	

PARTS LIST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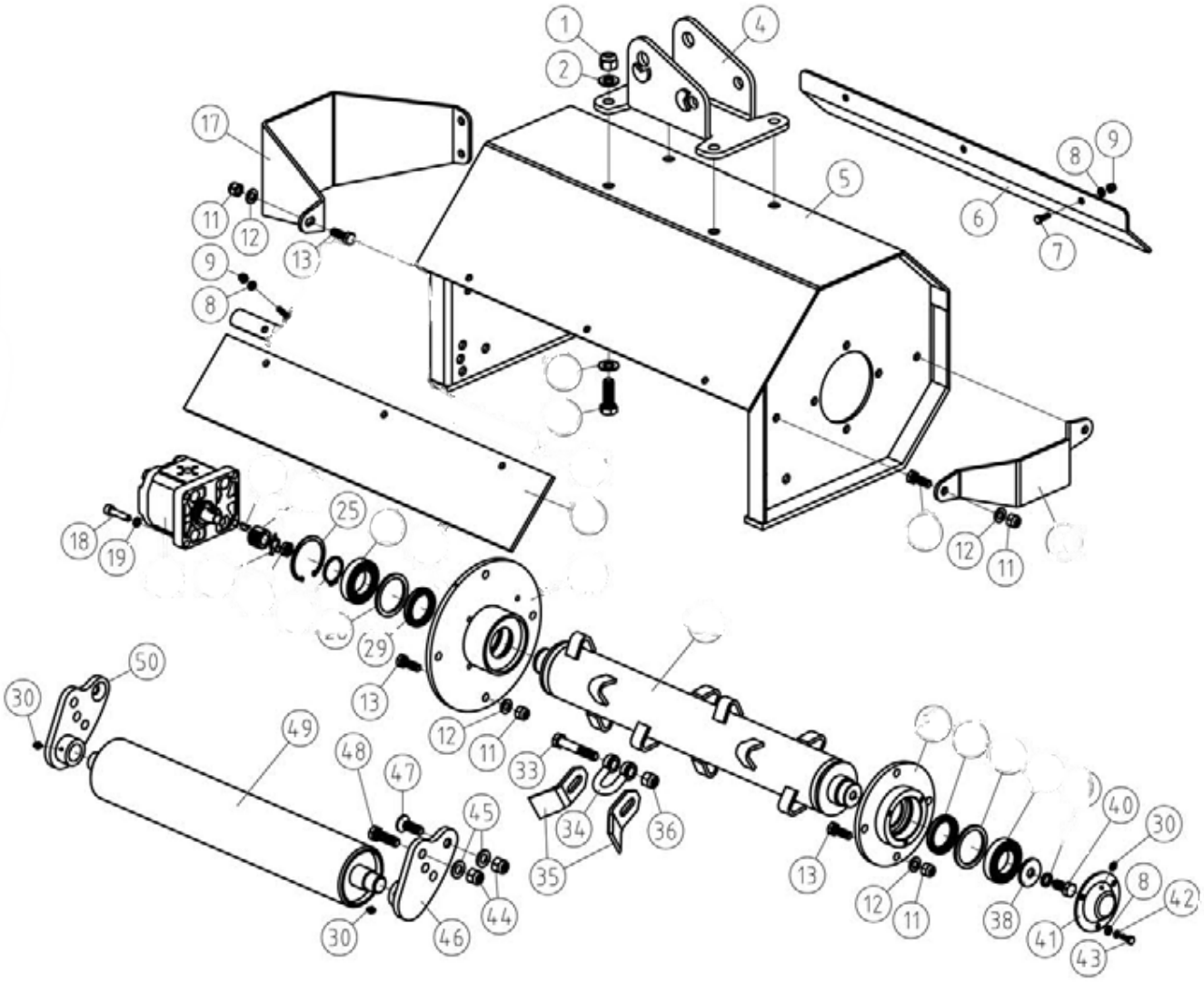
PARTS LIST

No.	Part No.	Parts Description	Remark
1	AM60.04.022	Valve	
2		Combination wsher	
3	ZL-25.028	Connector	
4	KUBOTA-1802DT.028	Connector	
5	AM60.04.021	Oil hose	
6	AM60.04.020	Oil hose	
7	AM60.04.018	Oil hose	
8	AM60.04.019	Oil hose	
9	AM60.04.012	Oil hose	
10	AM60.04.014	Oil hose	
11	AM60.04.017	Valve	
12	AM60.04.104	Connector	
13		Combination washer	
14		Combination washer	
15	LW-7.07.104	Connector	
16	RFA-100×5L	Oil fiter	
17	GB3541-83	Nut	
18		Combination washer	
19	AM60.04.013	Oil hose	
20	SDM150.00.199	Connector	
21		Combination washer	
22	CBHY-G25 / F4.5-ATP	Oil pump	
23	AM60.04.101	Connector	
24		Combination washer	
25	GB70.1-2000	Bolt	
26	GB93-87	Washer	
27	GB3541-83	Bolt	
28	AM60.04.011	Oil hose	
29	GB70.1-2000	Bolt	
30	GB93-87	Washer	
31	AM60.02.104	Connector	
32	GB3452.1-82	O - ring	
33	HPLMA220BMLE5E5B00	Hydraulic motor	
34	AM60.04.015	Cylinder	
35	AM60.04.023	Cylinder	
36	AM60.04.016	Cylinder	

PARTS LIST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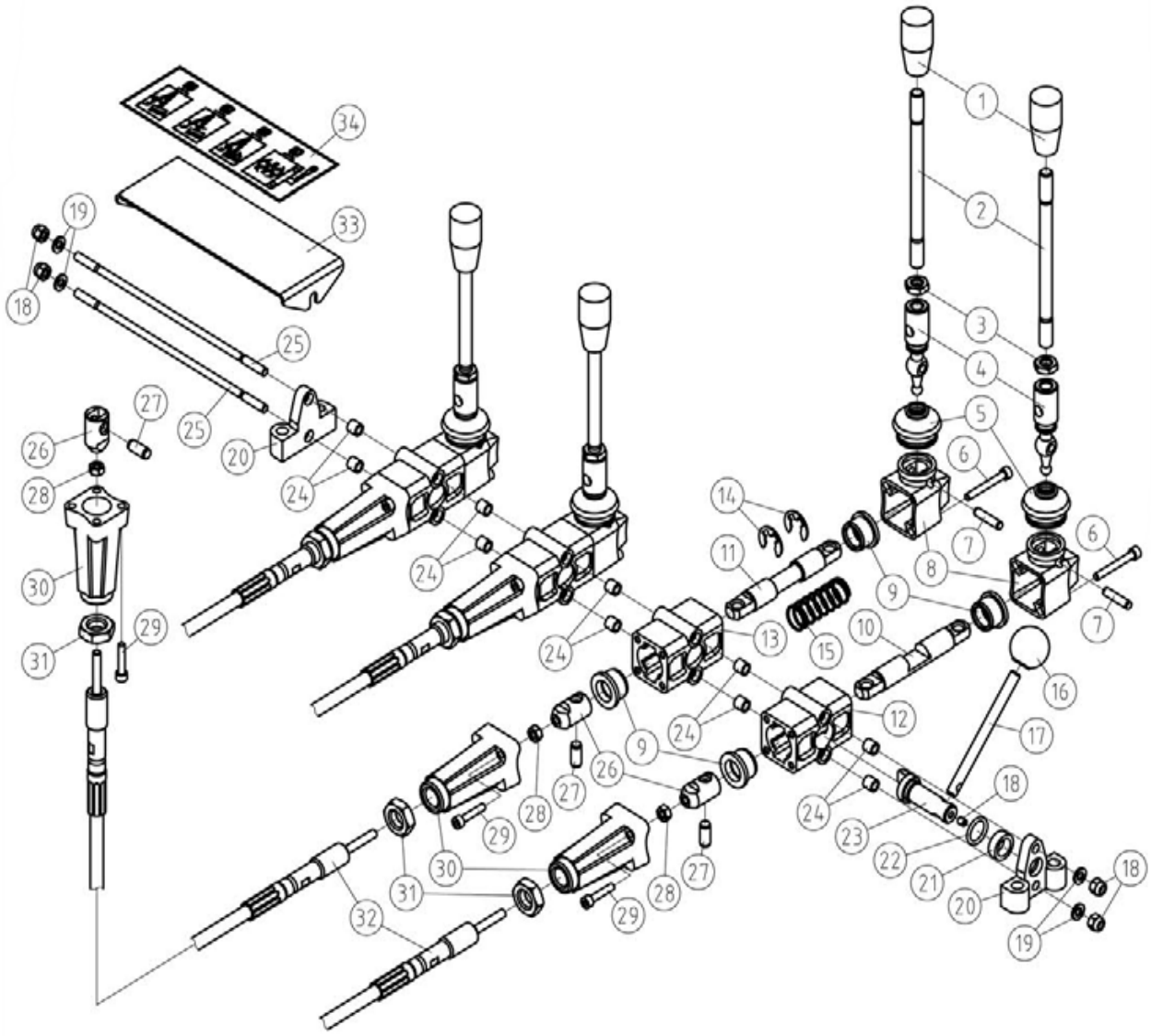
No.	Part No.	Parts Description	Remark
1	GB6182-86	Nut	
2	GB97.1-85	Washer	
3	GB5783-86	Bolt	
4	AM60.02.017	Linkage weldment	
5	AM60.02.010	Cover	
6	AM60.02.110	Front cover plate	
7	GB5783-86	Bolt	
8	GB97.1-85	Plain washer	
9	GB6182-86	Nut	
10	AM60.02.108	Protect cover	
11	GB6182-86	Nut	
12	GB97.1-85	Washer	
13	GB5783-86	Bolt	
14	AM60.02.112	Rubber cover	
15	AM60.02.111	Press plate	
16	GB5783-86	Bolt	
17	AM60.02.103	Motor protect cover	
18	GB70.1-2000	Bolt	
19	GB93-87	Spring washer	
20	HPLMA220BMLE5E5B00	Hydraulic motor	
21	GB/T1099.1-2003	Key	
22	AM60.02.102	Key	
23		Washer	
24	GB6172-86	Nut	
25	GB893.1-86	Circle	
26	GB894.1-86	Circle	
27	GB276-89	Bearing	
28	AM60.02.105	Oil seal circle	
29	GB13871-92	Seal circle	
30	GB1152-89	Grease nipple M6	
31	AM60.02.011	Bearing seat	
32	AM60.02.012	Blade axle	
33	GB5782-86	Bolt M12x60	
34	AM60.02.107	Blade lock	
35	AM60.02.106	Blade	
36	GB6182-86	Nut M 12	
37	AM60.02.013	Bearing seat	
38	MZ105.115	Washer	
39	GB93-87	Sping washer	
40	GB5783-86	Bolt	
41	AM60.02.109	End cover	
42	GB93-87	Spring washer	
43	GB5783-86	Bolt	
44	GB6182-86	Nut	
45	GB97.1-85	Plain washer	
46	AM60.02.014	Roller seat	
47	GB70.3-2000	Bolt	
48	GB5783-86	Bolt	
49	AM60.02.015	Roller	
50	AM60.02.016	Roller seat	

PARTS LIST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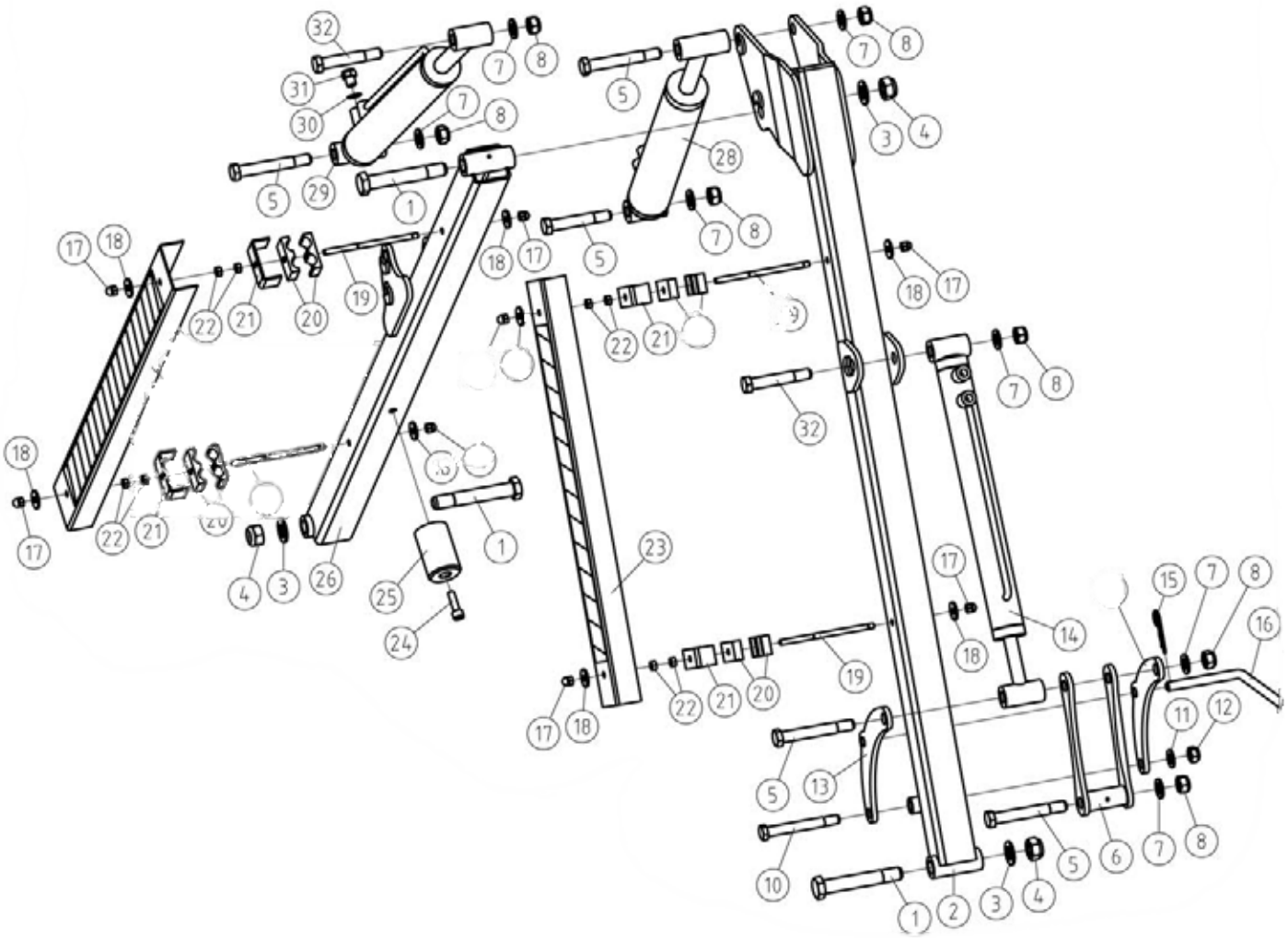
PARTS LIST

No.	Part No.	Parts Description	Remark
1		Handle	
2	AM60.01.121	Joy sticker	
3	GB6172-86	Nut	
4	AM60.01.120	Director	
5	AM60.01.119	Cover	
6	GB70.1-2000	Bolt	
7	GB119-86	Pin	
8	AM60.01.114	Up cover	
9	AM60.01.109	Bush	
10	AM60.01.118	Pull pole	
11	AM60.01.111	Pull pole	
12	AM60.01.117	Valve Piece with Bolt hole	
13	AM60.01.113	Valve Piece	
14	AM60.01.122	Circle	
15	AM60.01.110	Spring	
16		Handle	
17	AM60.01.107	Lock handle	
18	GB6182-86	Nut	
19	GB97.1-85	Plain washer	
20	AM60.01.105	Fix seat	
21	AM60.01.104	Brush	
22	GB3452.1-82	O - ring	
23	AM60.01.106	Lock pin	
24	AM60.01.103	Lock washer	
25	AM60.01.101	Screw	
26	AM60.01.108	Connector	
27	GB119-86	Pin	
28	GB6170-86	Nut	
29	GB70.1-2000	Bolt	
30	AM60.01.112	Down cover	
31	GB6182-86	Nut	
32	AM60.01.011	Cable	
33	AM60.01.115	Sticker plate	
34		Sticker	

PARTS LIST



PARTS LIST

No.	Part No.	Parts Description	Remark
1	GB27-88	Bolt M10X130	
2	AM60.03.014	Small arm weldment	
3	GB97.1-85	Plain washer	
4	GB6184-86	Nut M20	
5	GB27-88	BOLT M16X120	
6	AM60.03.013	Push and pull board	
7	GB97.1-85	Plain washer	
8	GB6184-86	Nut	
10	GB27-88	Bolt	
11	GB97.1-85	Plain washer	
12	GB6184-86	Nut	
13	AM60.03.103	Swing arm	
14	AM60.04.016	Swing arm cylinder	
15		Small R pin	
16	AM60.03.110	Lock pin	
17	GB923-88	Nut M8	
18	GB5287-85	Big plain washer	
19	AM60.03.109	Screw	
20	AM60.03.105	Cylinder clamp	
21	AM60.03.106	Press plate	
22	GB6170-86	Nut M8	
23	AM60.03.107	Oil hose cover	
24	GB70.1-2000	Bolt M10X35	
25	AM60.03.104	Cushion	
26	AM60.03.015	Large arm weldment	
27	AM60.03.108	Oil hose cover	
28	AM60.04.023	Cylinder	
29	AM60.04.015	Cylinder	
30		Combination washer	
31		Breather	
32	GB27-88	Bolt	

Value Leader
est. 1995

Parts Request Form

Call 541-895-3083 or E-mail
parts@betstco.com

Name: _____

Address: _____

City State Zip: _____

Phone: _____

E-mail: _____

Model Number: _____

Serial Number: _____

Purchased From: _____

Purchase Date: _____

	Description	Qty	Price	Amount

Comments:

Value-Leader Brand
LIMITED WARRANTY

Unless otherwise stated on purchase invoice, Betstco warrants to original Purchaser that Value-Leader products are free from major defects in material under normal use and service for a period of Two (2) Years from the date the product is purchased or shipped, whichever is later. Commercial use 180 days. Use at address that is not yours, is considered commercial use. Consumable, Expendable, Wear Items (Examples:Rubber & plastic parts, hydraulic hoses, belts, tires, cables, blades, tines, wedges, teeth, tips, chains, pins, brushes, filters, etc.) and cracked hydraulic pumps, bent or broken cylinder rods are not covered under this warranty. Warranty does not cover items that have been modified, damaged by abuse or usage not in accordance with design or maintenance.

Betstco obligation under this warranty is to repair or replace defective product upon approval by; Betstco, 83371 Melton Rd. N., Creswell OR 97426 that Warranty Claim is Valid. Product shall be returned upon request of Betstco. Transportation charges to be prepaid by buyer. **Gasoline or diesel engines used to powered Value-Leader products are covered by the warranty of the appropriate engine manufacture and Purchaser must look to the engine manufacture for all issues relating to engine operation.**

Betstco assumes no responsibility for outside labor.

PERMISSIBLE BY APPLICABLE LAW, BETSTCO HEREBY DISCLAIMS ALL WARRANTIES OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, ANY IMPLIED WARRANTIES WITH RESPECT TO THE PRODUCT PURCHASED, WITHOUT LIMITING THE GENERALITY OF THE FOREGOING, BETSTCO HEREBY EXPRESSLY DISCLAIMS ALL LIABILITY FOR PRODUCT DEFECT OR FAILURE, CLAIMS THAT ARE DUE TO NORMAL WEAR, PRODUCT MISUSE, ABUSE, PRODUCT MODIFICATION, IMPROPER PRODUCT SELECTION, NON-COMPLIANCE WITH ANY CODES, OR MISAPPROPRIATION.• BETSTCO MAKES NO WARRANTIES TO THOSE DEFINED AS "CONSUMERS" IN THE MAGNUSON-MOSS WARRANTY-FEDERAL TRADE COMMISSION IMPROVEMENTS ACT. THE FOREGOING EXCLUSIONS OF IMPLIED WARRANTIES DO NOT APPLY TO THE EXTENT PROHIBITED BY LAW. PLEASE REFER TO YOUR LOCAL LAWS FOR ANY SUCH PROHIBITIONS

THERE SHALL BE NO LIABILITY FOR PRODUCT LIABILITY OR LIABILITY ON THE PART OF BETSTCO FOR ANY GENERAL, SPECIAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE SALE OR USE OF ANY PRODUCTS SOLD BY BETSTCO OR AN AGENT THEREOF. BETSTCO MAKES NO WARRANTIES, EXPRESS OR IMPLIED, (INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF THE PRODUCTS FOR ANY PURPOSE) WITH RESPECT TO THE PRODUCTS COVERED BY THIS AGREEMENT EXCEPT AS IN THIS PARAGRAPH OTHERWISE EXPRESSLY PROVIDED.

THIS IS THE SOLE AND ONLY WARRANTY OF Value-Leader PRODUCTS. NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESSED OR IMPLIED, IN FACT OR BY LAW,

This warranty shall not be interpreted to render Betstco, or any authorized agent liable for injury or damages of any kind or nature, direct, consequential, or contingent, to person or property.

The sole and only remedy in regard to any defective products shall be the repair or replacement thereof as herein provided. Betstco, agent(s) of Betstco shall not be liable for any consequential, special, incidental or punitive damages resulting from or caused by any such defects.

Betstco reserves the right to make improvements in design or changes in specifications at any time, without incurring any obligations to owners of units previously sold.

No one is authorized to alter, modify, or enlarge this warranty nor the exclusions, limitations, and reservation thereof.

WARRANTY VOID IF REGISTRATION IS NOT RECEIVED OR RECORDED ONLINE WITHIN 30 DAYS OF PURCHASE DATE OR SHIP DATE, WHICHEVER IS LATER.

VL REGISTRATION

Item_____Model # _____ Purchase Date_____/_____/_____

Purchased From: _____Gift ☐Inv#/Order# _____

Owner Name: _____ Serial # (if Applicable)_____

Owner Address: _____

City: _____ County: _____ ST: _____ Zip Code: _____

Phone: _____ Email: _____

Acceptance of responsibility:
I (Purchaser) have read operators manual and Limited Warranty or someone has read/and explained all instructions to me. I understand this warranty does not cover any labor and that all disputes will be settled by binding arbitration. Binding arbitration is conducted by the Better Business Bureau (BBB) located at 4004 SW Kruse Way Place Ste 375 Lake Oswego OR 97035 or the current BBB location closest to Betstco, I acknowledge my Limited Warranty is void if any attempt to repair or replace defective parts has been made by unauthorized personnel. I acknowledge receipt of my Operators Manual and have read the Safe Operation Section. I acknowledge understanding maintenance and safe operation requirements, item specifications, operation, controls, and storage requirements. **I understand that I alone am responsible for proper maintenance, care and safe operation of this Value-Leader item.**

I (Purchaser) agree that persons not familiar with the operation of this item should not be allowed to use it. Children especially should not operate or be near Power Products when in use. ANYONE OPERATING VALUE-LEADER PRODUCTS SHOULD HAVE READ OPERATIONS MANUALS AND SAFETY MANUALS.

Owners Signature: x _____ Date: ___/___/___

You must sign this warranty and mail or fax copy to Betstco, 83371 Melton Rd, Creswell OR 97426.
If you prefer you may complete your registration on line at www.Value-Leader.com. This warranty is not effective unless the Purchaser completes Registration and Warranty Form within 30 days of purchase or ship date whichever is later.

Fax to 541-895-2756

NOTE: We may refuse warranty of any kind unless Betstco, receives a completed, legible and signed warranty registration. It is the responsibility of the purchaser to assure that registration document is received by Betstco.

Fax to 541-895-2756

2 YEAR EXTENDED WARRANTY & REGISTRATION
Value Leader Implement

Branded Products

2 YEAR EXTENDED WARRANTY

2 Year Extended Warranty amends to original Recorded Warranty Registration the time period of described coverage. Extended Warranty does not apply to Consumable and Expendable Items as described in Product Warranty Registration.

This Amendment does not affect any other part of recorded Warranty Registration or Policy.

No one is authorized to alter, modify, or enlarge this Amendment to original recorded warranty registration.

EXTENDED REGISTRATION & PAYMENT MUST BE RECEIVED WITHIN 30 DAYS OF PURCHASE DATE

EXTENDED WARRANTY REGISTRATION

Product & Model # : _____

Serial #: _____

Owner Name: _____

Betstco Invoice # _____

Acceptance of responsibility:

I (Purchaser) have Read and understand the Extended Warranty or someone has read/and explained all the above to me. I understand this extended warranty does not cover any labor. I have filed my Original Warranty Registration and fully understand my requirements. **I understand that I alone am responsible for proper maintenance, care and safe operation of this tractor implement.**

I (purchaser) also understand that persons not familiar with the operation of this equipment should not be allowed to use it. Children especially should not operate or be near equipment. ANYONE OPERATING EQUIPMENT SHOULD HAVE READ ALL EQUIPMENT OPERATIONS MANUALS AND SAFETY MANUALS..

Owners Signature: x _____

Date: _____

You must sign this extended warranty and Fax to 541-895-2756 or mail copy to Betstco, 83371 Melton Rd, Creswell OR 97426. This extended warranty is not effective unless the Purchaser faxes or mails this Registration Form within 30 days of purchase. NOTE: The Manufacturer may refuse warranty of any kind unless Betstco receives a completed, legible and signed extended warranty registration. It is the responsibility of the purchaser to assure that this registration document is received by Betstco.

To Make Payment for Extended Warranty Call: 541-895-3083