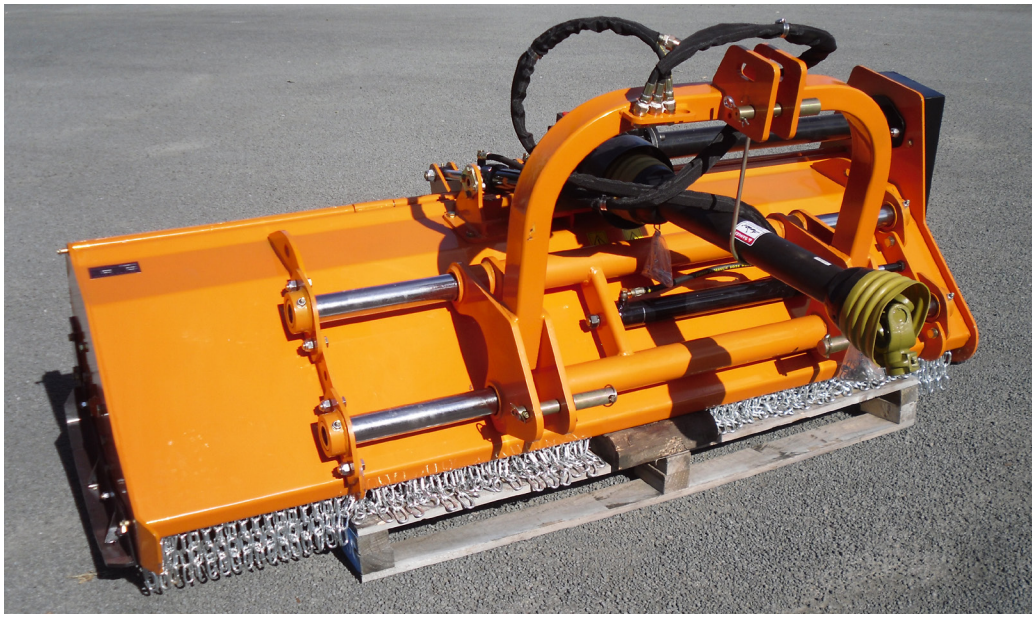
LandMax

Suppliers Of Quality Agricultural Machinery

21 Plummers Point Road, Tauranga



Predator

Flail Mower

Operator's Manual

FOREWORD

The purpose of this manual is to assist you in operating and maintaining your Flail mower. Read it carefully before operating and maintaining the Flail mower, it furnishes the specifications, construction, instructions and also the maintenance. Some information may be general in nature due to unknown and varying conditions. However, through experience and these instructions, you should be able to develop operating procedures suitable to your particular situation.

“Right” and “left” as used throughout this manual are determined by facing the direction the machine will travel when in use.

Please kindly note that the contents of this operations manual may be a little bit different from the Flail mower that you actually purchase. This is due to the continuous improvement and development of the Flail mower. The specifications and structure shall be subject to change without notice.

We strive to make this operations manual as correct as possible. However, we do not guarantee the accuracy or recentness of the information herein. We assume no liability for errors or omission.

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CHAPTER Ⅰ SAFETY INFORMATION

PLEASE NOTE

Make sure all potential operators of this equipment review this manual and all safety messages contained within.

1.1 Safety First

Read this service manual before using the machine.



This safety alert symbol indicates important safety messages in this manual. When you see this symbol, carefully read this message that follows and be alert to the possibility of personal injury or death.

This machine is designed for pulverizing grass and short bramble, and shall be used in the indicated purpose. You take the responsibility if the machine is used in any other purposes.

For safety of personnel and good performance of the machine, you shall check the performance of the machine and the tractor before starting the machine.

All persons and animals shall keep away the machine when you start it.

The operator shall not put on too loose clothes during operating the machine.

Do not touch the rotor when the machine rotates.

Keep away the machine when it moves.

When the tractor and the machine are moving on the road, always keep the machine off.

Before repairing the machine, stop all movable parts and the tractor, keep the key with yourself.

Always keep the machine in a good state, if necessary, repair or change the defective parts.

Don’t use the machine to transport personnel.

Don’t modify the machine.

Pay attention to the sharp and pointed parts during repairing the machine.

All protective parts shall be guaranteed to be in good state before starting the machine.

Don’t leave the tractor when moving the machine; and always take away the key of the tractor with you.

The machine shall be operated in the recommended speed.

Don’t stay between the tractor and the machine.

Don’t start the machine in a closed place (due to the smoke from the tractor).

1.2 Safety Signs

1.2.1 Care of Safety Signs

1. Keep safety signs clean and legible at all times.
2. Replace safety signs that are missing or have become illegible.
3. If a component with a safety sign(s) affixed is replaced with a new part, make sure new safety sign(s) are attached in the same locations as the replaced components.
4. Safety signs are available from your authorized Distributor or Dealer Parts Department or the factory.

1.2.2 Safety Signs locations

The types of safety signs and locations on the equipment are shown in the illustrations that follow. Good safety requires that you familiarize yourself with the various safety signs, the type of warning and the area, or particular function related to that area, that requires your **SAFETY AWARENESS.**

CHAPTER Ⅱ SPECIFICATIONS

2.1 Brief Introduction

Predator series Flail mower is designed for pulverizing grass and short bramble, and shall be used in the indicated purpose.

The Flail mower consists of a rotating shaft with many blades attached to it. The blades cut the grass while traveling over the working area. Rotational power to the shaft is provided by the tractor PTO through the gearbox in the center of the machine.

The Flail mower attaches to the 3 point hitch on the tractor.

Fig. 2.1 Main components of the Flail mower

1. Blade axle 2. Blade axle cover 3. Combined fender 4.Supporting frame

5. Gearbox assembly 6. Suspension bracket 7. Transmission shaft 8. Belt wheel and belt

2.2 Specifications and Parameters for Flail Mower

MODEL	Predator 2000	Predator 2200	Predator 2600
Structure Weight (kg)	605	635	695
Cutting width (cm)	200	220	260
Cutting height (mm)	10-70mm	10-70mm	10-70mm
Rotor diameter (mm)	159	159	159
Hammer Number	32	34	40
PTO Turing speed(rpm)	540	540	540
PTO shaft size(mm)	T4-800	T4-800	T4-800
Power Required (hp)	45--65	55-85	60-100
Packing Size (mm)	2210×960×870	2410×960×870	2810×960×870

CHAPTER Ⅲ OPERATION



CAUTION: Be familiar with the machine before starting. Read this manual carefully to learn how to operate the machine safely and how to set it to provide maximum field efficiency.

3.1 Checking Before Operating



ATTENTION: Only use universal joint conforming to CE standard and protect them properly.

Before operating the machine, the following areas should be checked off:

1. **Pay attention to the warning stickers on each greasing point. Before starting the machine, please make sure lubricate each grease point with grease or oil according to requirement on the warning stickers.**
2. Use only an agricultural tractor of horsepower within limits of the machine specified.
3. Check that the machine is properly attached to the tractor. Be sure retainers are used on the mounting pins.
4. Be sure extra weights are mounted on the front of the tractor.
5. Check the oil level in the gearbox. Add as required.
6. Check that the tractor PTO shaft turns freely and that the machine driving shaft can telescope easily.
7. Check the blades. Be sure they are not damaged or broken and swing freely in their mount. Repair or replace as required.
8. Check and tighten the blade bolts.
9. Check for entangled material in all rotating parts. Remove this material.
10. Install and secure all guards, doors and covers before starting.
11. Before installing the universal joint, the tractor and the machine motor shall be stopped and the key be taken away. The universal joints shall be installed in good state, with proper protective parts.
12. The chain on the protective parts of the universal joint shall be guaranteed in good condition, in case, automatic rotation occurs.
13. All other persons shall leave the ground before connecting the driving power from the tractor. Keep the output of the tractor at 540 RPM.
14. Before cleaning, repairing and lubricating the machine, stop the motor and take away the key with you.
15. When the universal joint is not connected with the tractor, they must be connected again through the frame to protect the joint from damaging.
16. Don’t approach the machine when the machine runs.

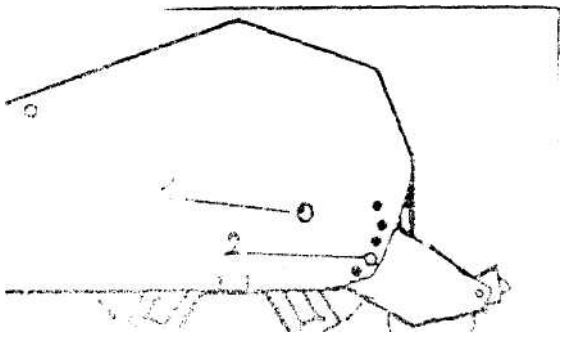
3.2 Adjusting the Height

In order to conduct a precise work, the machine shall be operated according to the recommended cutting height.

For saving fuel and power, and reducing the wear of the machine, the cutting height must

be regulated correctly.

When regulating the working height, loosen the screw (1), remove the screws (2) on both sides; regulate the roller height (see following drawing); fix the parts on the set position. The lowest hole is the highest working height; put the screws (2) into the set hole; tighten screw (1) and screws (2).



3.3 Regulating the Tension of Driving Belt

ATTENTION: The machine shall always stand still for regulating the tension.

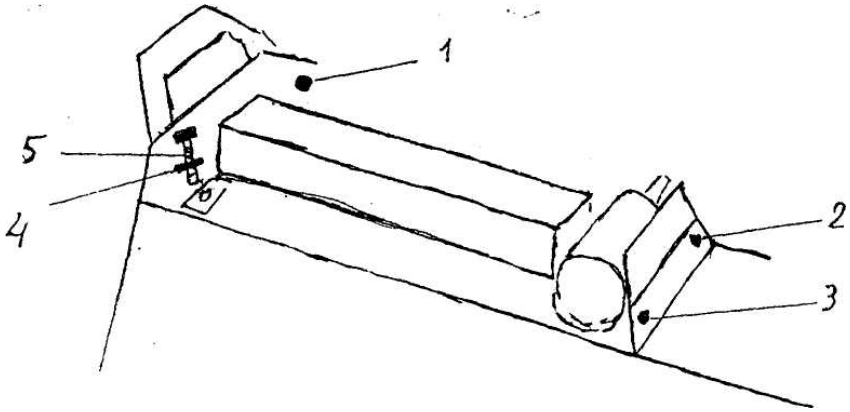
Remove the driving belt cover.

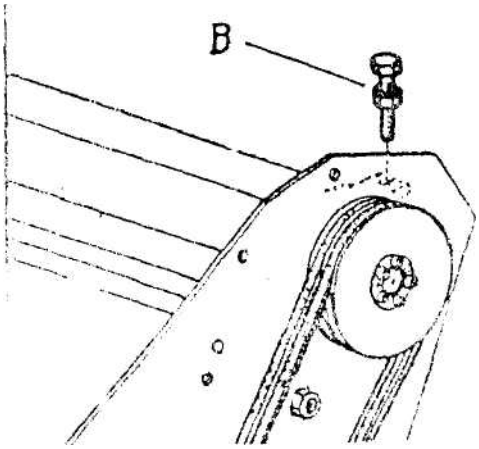
Loosen screws 1. 2. 3. 4.

Tighten the driving belt with screw 5.

Tighten the screws 1. 2. 3. 4.

Put back the driving belt cover.





The recommended moving forward speed is 1.5 km/h, according to the grass height, thickness and working condition.

The driving belts are tightened by hand at the regulating point B up to the correct tension. Tighten all screws after regulating.

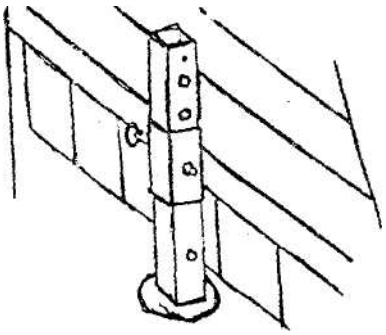
The driving belts shall be replaced when they are not in a good condition.

3.4 Staring up

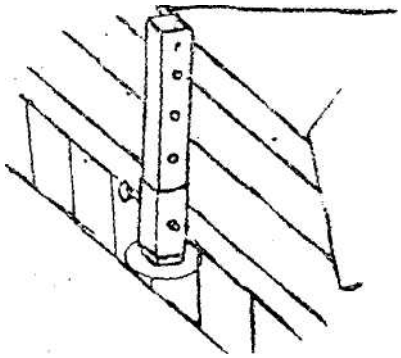
Before starting the machine, control and adjust the following items:

- Tension of trapezoidal driving belt.
- Oil level of gear.
- Point of lubrication
- All bolts, nuts and screws.

Working Position



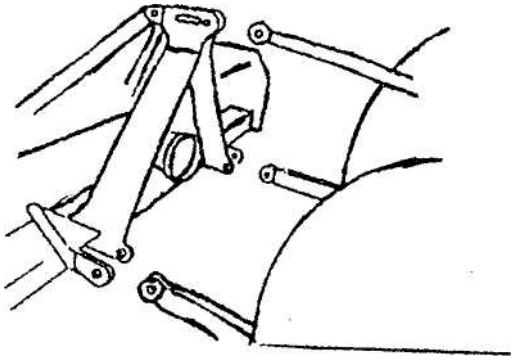
Moving Position

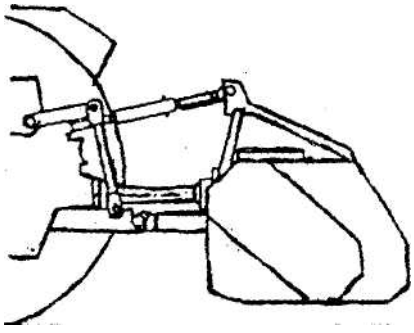


In order to keep the machine stable, install the supporting frame on the machine when the machine is stopped (see above drawing).

ATTENTION: When transferring the moving state of the machine to the working state, do not stand between the machine and the tractor.

The machine coupling is equipped with 3 pins so that the machine can be coupled with all tractors with universal coupling with 3 pins. Each telescopic pole on the machine can be adjusted properly according to the type of the tractor. Keep the Flail mower away the tractor with a certain distance. The universal joint shall be tense and the largest distance in the closed state shall be 5/10 cm.





Moving the lifting arm, and putting it between axes, insert the joint pins and fix them with pins. Fix the lifting arm with chain and tensioning device so as to prevent lateral movement of the machine. Connect the universal joint to the PTO shaft of the tractor on the side of the tractor. In any event, it cannot produce a collision in any position. While connecting 3 points, pay attention to that the PTO shaft of the tractor shall be parallel with the ground. It is very important to keep the machine driving axle and the PTO shaft of the tractor in parallel.

The machine shall be lifted from the ground before moving the machine.

CHAPTER Ⅳ SERVICE AND MAINTENANCE

4.1 Service

4.1.1 FLUIDS AND LUBRICANTS

1. Grease:

   Use multi-purpose lithium based grease.

2. Gear Box Oil:

   Use N46 drive &hydraulic dual-purpose oil or equivalent for all operating conditions.
   Each Gearbox Capacity: 0.85 liter

3. Storing Lubricants:

   Your machine can operate at top efficiency only if clean lubricants are used. Use clean containers to handle all lubricants. Store them in an area protected from dust, moisture and other contaminants.

4.1.2 GREASING

- Use a hand-held grease gun for all greasing.
- Wipe grease nipple with a clean cloth before greasing, to avoid injecting dirt and grit.
- Replace and repair broken nipple immediately.
- If nipples will not take grease, remove and clean thoroughly. Also clean lubricant passageway. Replace nipple if necessary.

4.2 Maintenance



ATTENTION: All maintenance, repairing, cleaning and lubricating shall be conducted when the tractor and motor are stopped and the key is taken away.

By following a careful service and maintenance program for your machine, you will enjoy many years of trouble-free operation.

The period recommended is based on normal operating conditions. Severe or unusual conditions may require more frequent maintenance.

4.2.1 8 HOURS OR DAILY MAINTENANCE

- Check and screw all nuts and bolts in connection parts.
- Check the blade and fixing parts every day and replace the damaged parts if they are found damaged. Don't install damaged, worn and unbalanced blade. New sleeve shall be used to replace the worn fixing parts on the blade.



NOTE:
The operator shall put on gloves and use suitable tools before changing blade.

- Check the oil in gearbox. Fill them up to line if it's necessary.
- Press butter in each oil nipple three to five times.
- Clean the implement; take away all grass and mud.

IMPORTANT: Check the oil level only when the unit is cold and the machine is on the level.

4.2.2 SEASON MAINTENANCE

- Check the machine as below beside the terms of daily maintenance.
- Check the oil in gearbox; replace it if it is bad.
- Check the bearings of blade spindles whether mud and water have been enter because oil seals are damaged, if it's so, disassemble and clean them and replace them if it is necessary. And then press butter into them.
- Check the distance between bearings and gears. Adjust them if it's necessary.

4.2.3 ANNUAL MAINTENANCE

- Cleaning mud and grass on the machine thoroughly.
- Check all clearance between bearings and gears if you have replaced them. Please run it without load for 3-5 minutes.
- Check and clean blade axles. Replace oil seals and press butter into them.
- Check all blades, replace then if they are wear-out or damaged.
- Repair the side skirts; let them to original technical condition. Replace damaged or broken protective devices.
- Remove the driving shaft from the machine. Pull the machine driving shaft apart. Check and replace any components that are damaged or worn. Install the driveline on the machine. The machine driving shaft should telescope easily and the guard turn freely on the shaft
- Let the oil in gearbox drain out thoroughly. Check and clean it. Fill new gear oil up to the dedicated oil level.

  The oil shall be drained off after 50 hours of using time. Then the oil shall be drained off every 250 hours. One time every year at least.

  The draining procedure is as follows: remove the draining bolt under the gear box, so that the oil drains off. After the oil is drained off, put back the cover and fill the gear oil up to the dedicated oil level.

ATTENTION: Don't forget to disconnect the generator cable and batteries when welding on the machine, while the machine is coupled with the tractor.

4.3 Storage

The machine inside and outside shall be cleaned carefully so as to avoid corrosion.

Don't spray water on the rolling bearing if you clean the machine with high pressure sprayer.

Check and clean the universal joint, driving belt press roller, or replace them if they are not in good state.

Spread oil on all parts required.

Recoat the parts rubbed and damaged for anti corrosion.

Store the machine in a dry, level area. Support the frame with planks if require.

4.4 Operation After Storage

Before the machine is started up, check the following items regularly:

Check oil level and add it if not enough.

Check and tighten all screws and nuts;

Check the regulated state of the machine.

Check the blade state.

Check the air hole on the gearbox. If it is blocked, clean or open the hole with compressed air.

Don’t spread oil or grease on the driving belts. If there is oil or grease on the belts, wipe the belts, in case the belt sliding and wearing occur.



ATTENTION: Check the machine every 10 hours. Repair the damaged parts or replace the blade according to the manufacturer’s recommendation, to keep the machine balancing.

Check all tightening parts and replace them if necessary.

Don’t remove the protective parts on some points and protect the machine.



ATTENTION: In the case of vibration, stop the machine and check the blade. If the blade breaks or is damaged, replace it with same type of the blade. If the machine vibrates still, send the machine to the authorized repairer.

CHAPTER Ⅴ ILLUSTRATED PARTS CATALOGUE

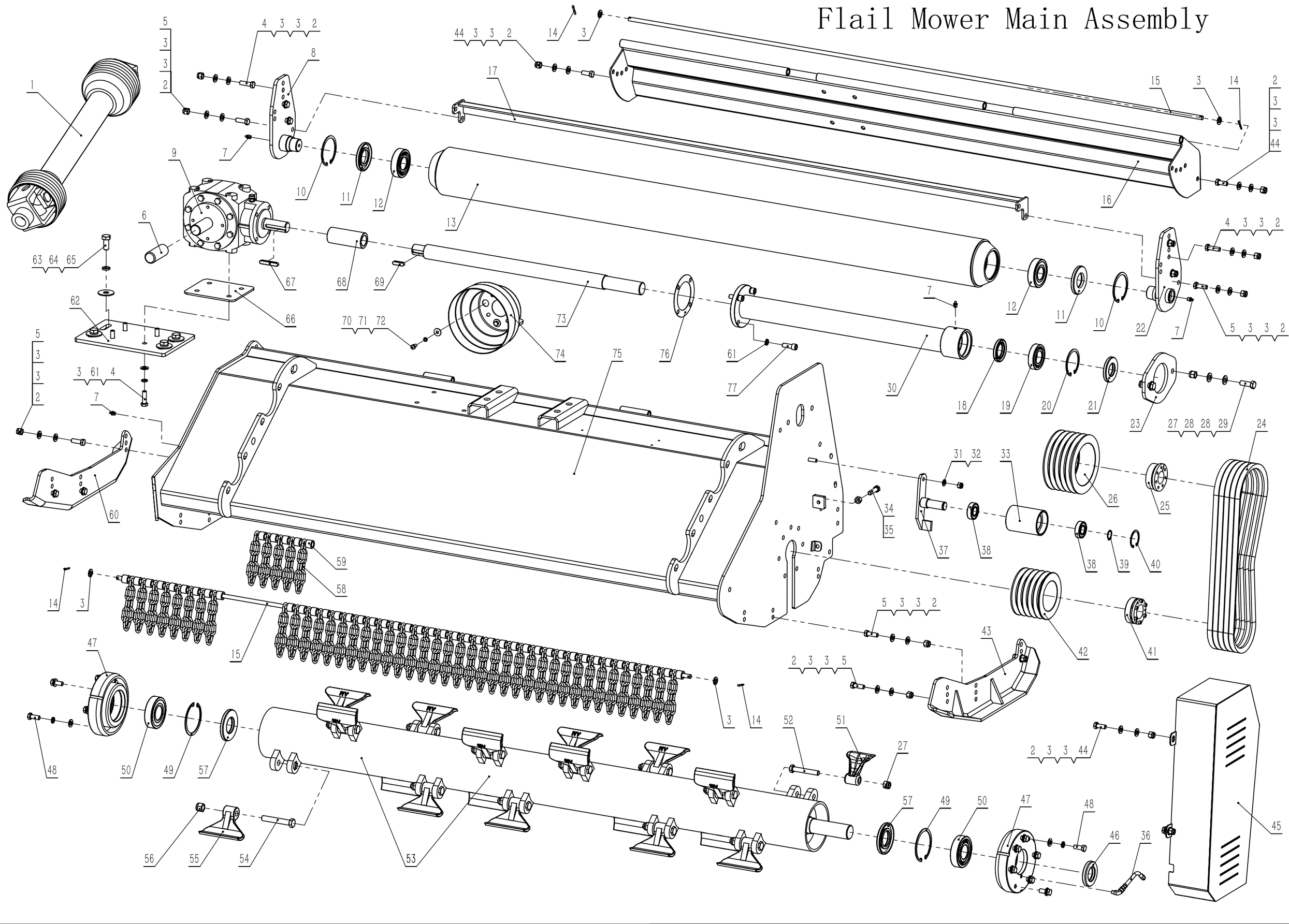
The manual contains a parts list for your machine. It is divided into major sections, which correspond to the groups shown in the Table of Contents and the accompanying illustration.

The first page of each major section lists the contents of that section, each of which consists of exploded views and related tabular listings.

When ordering parts

Always give your dealer the Model of your machine to assist him in ordering and obtaining the correct parts. Use the exploded view and tabular listing of the area of interest to exactly identify the required part.

Flail Mower Main Assembly



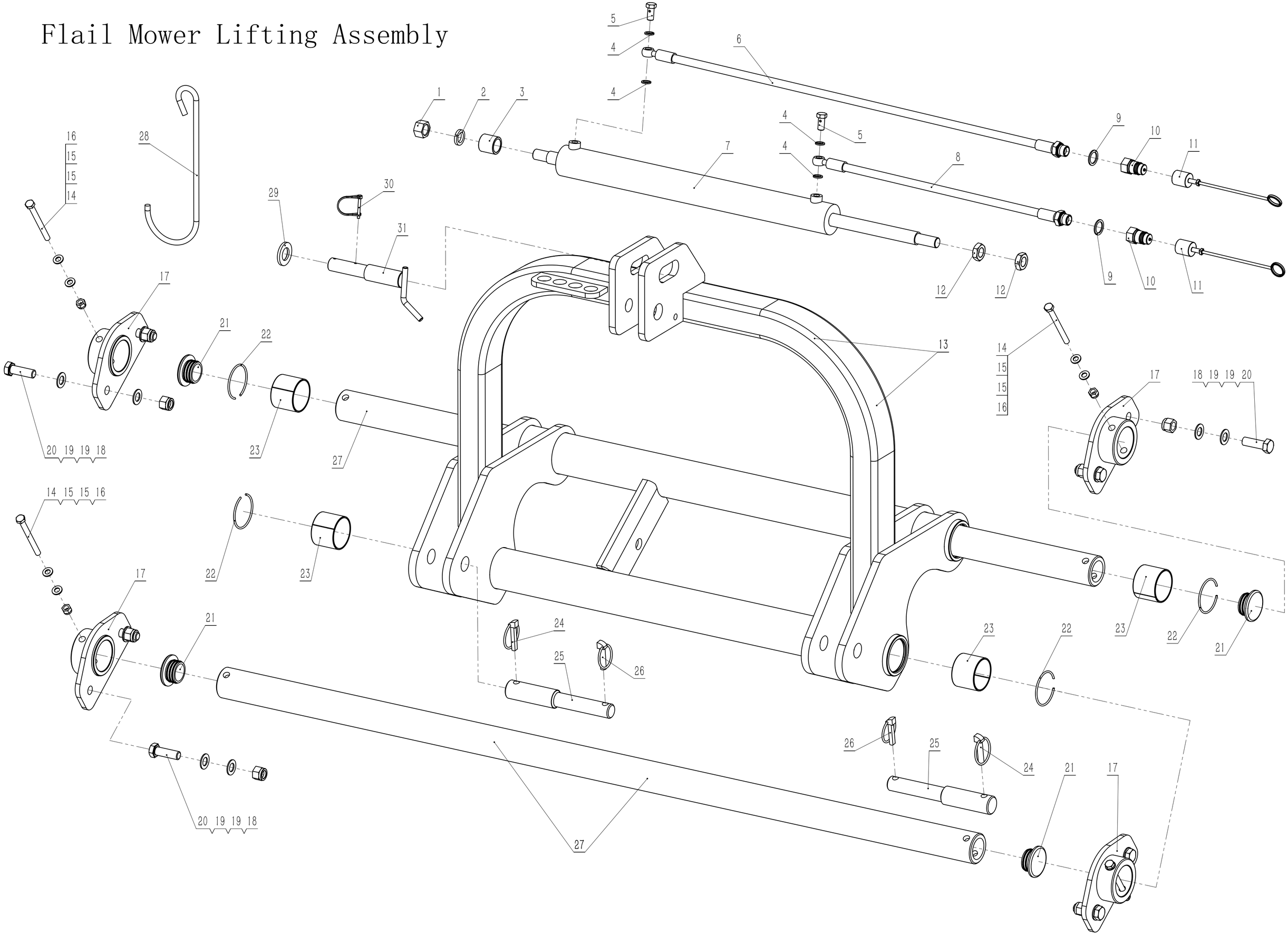
S/N	Part Number	Name & Specification	Q'ty	Remark
1	T5S-Y6W-05-05-1000	PTO 05B1000	1	
2	GB/T 889.1-M12	Locknut M12	19	
3	GB/T 97.1-Ø12	Flat washer 12	46	
4	GB/T 5783-M12×40	Bolt M12×40	8	
5	GB/T 5783-M12×35	Bolt M12×35	10	
6	EFGC175.133	Spline shaft dust cover	1	
7	JB/T 7940.1-M10×1	Oil cup M10×1	4	
8	EFB200-026	Left roller hanging plate weldment	1	
9	XH50.300Z.02W	Gearbox	1	200/220
	XH65.300Z.02W	Gearbox	1	240/260
10	GB/T 893.1-Ø90	Elastic ring for hole 90	2	
11	GB/T 13871.1-45×90×10	TC skeleton oil seal 45×90×10	2	
12	GB/T 276-6308-RZ	Deep groove ball bearing 6308-RZ	2	
13	EFB200-021	Roller weldment	1	200
	EFB220-021	Roller weldment	1	220
	EFB240-021	Roller weldment	1	240
	EFB260-021	Roller weldment	1	260
14	GB/T 91-4×25	Cotter pin A type 4×25	4	
15	EFB200-106	Cover shaft	2	200
	EFB220-106	Cover shaft	2	220
	EFB240-106	Cover shaft	2	240
	EFB260-106	Cover shaft	2	260
16	EFB200-015	Hood cover weldment	1	200
	EFB220-015	Hood cover weldment	1	220
	EFB240-015	Hood cover weldment	1	240
	EFB260-015	Hood cover weldment	1	260
17	EFB200-014	Scraper weldment	1	200
	EFB220-014	Scraper weldment	1	220
	EFB240-014	Scraper weldment	1	240
	EFB260-014	Scraper weldment	1	260
18	GB/T 13871.1-45×72×10	TC skeleton oil seal 45×72×10	1	
19	GB/T 276-6208	Deep groove ball bearing 6208	1	

20	GB/T 893.1-Ø80	Elastic ring for hole 80	1	
21	GB/T 13871.1-40×80×10	TC skeleton oil seal 40×80×10	1	
22	EFB200-027	Right roller hanging plate weldment	1	
23	EFB200-107	Drive shaft support plate	1	
24	GB/T 11544-BX(17)×1346	Belt BX(17)×1346	5	
25	AGF140.151	Z3 expansion sleeve 40×80	1	
26	EFDH180.101	Large pulley	1	
27	GB/T 889.1-M14	Lock nut M14	2+N	EFK blade
28	GB/T 97.1-Ø14	Flat washer 14	4	
29	GB/T 5783-M14×40	Bolt M14×40	2	
3	EFB200-022	Drive shaft tube weldment	1	200/220
	EFB240-022	Drive shaft tube weldment	1	240/260
31	GB/T 97.1-Ø10	Flat washer 10	1	
32	GB/T 889.1-M10	Lock nut M10	1	
33	EFB260-108	Tensioning pulley	1	
34	GB/T 5783-M12×45	Bolt M12×45	1	
35	GB/T 6170-M12	Ordinary nut M12	1	
36	AGH200.057	Refueling pipe assembly	1	
37	EFB200-023	Tensioning plate device weldment	1	
38	GB/T 276-6205-2RZ	Deep groove ball bearing 6205-2RZ	2	
39	GB/T 894.1-Ø25	Shaft circlip 25	1	
40	GB/T 893.1-Ø52	Hole circlip 52	1	
41	EFK190.151	Z3 expansion sleeve 45×80	1	
42	EFB260-113	Small pulley	1	
43	EFB200-018	Right bottom plate weldment	1	
44	GB/T 5783-M12×30	Bolt M12×30	5	
45	EFB260-017	Pulley cover weldment	1	
46	GB/T 13871.1-45×80×12	TC skeleton oil seal 45×80×12	1	
47	EFB200-119	Bearing seat	2	
48	GB/T 9074.17-M12×30	Combination bolt M12×30	14	
49	GB/T 5783-Ø100	Hole circlip 100	2	
50	GB/T 276-6309-RZ	Deep groove ball bearing 6309-RZ	2	
51	EFK190.112	Blade	N	Optional

52	GB/T 5782-M14×90	Bolt M14×90	N	Level 12.9, blackened
53	EFB200-020A	Blade shaft weldment	1	Standard configuration includes 1.2kg blades. (200-260)
	EFB220-020A	Blade shaft weldment	1	
	EFB240-020A	Blade shaft weldment	1	
	EFB260-020A	Blade shaft weldment	1	
	EFB200-020	Blade shaft weldment	1	Optional (200-260)
	EFB220-020	Blade shaft weldment	1	
	EFB240-020	Blade shaft weldment	1	
	EFB260-020	Blade shaft weldment	1	
54	GB/T 5782-M16×100	Bolt M16×100	N	10.9 grade, blackened (1.2kg blade)
55	AGH200.114	1.2Kg hoe blade	N	Standard
56	GB/T 889.1-M16	Lock nut M16	N	Level 10 (1.2kg blade)
57	GB/T 13871.1-50×100×10	TC skeleton oil seal 50×100×10	2	
58	EFK190.118	9-link chain	N/kg	
59	EFK190.114	Plastic spacer	N	
60	EFB200-019	Left bottom plate weldment	1	
61	GB/T 93-Ø12	Spring washer 12	8	
62	EFB200-101	Gearbox base plate	1	200/220
	EFB260-101	Gearbox base plate	1	240/260
63	GB/T 96.1-Ø16	Large flat washer 16	4	
64	GB/T 93-Ø16	Spring washer 16	4	
65	GB/T 5783-M16×35	Bolt M16×35	4	
66	EFB200-111	Gearbox pad	1	200/220
67	GB/T 1096-10×65	Ordinary flat key A 10×65	1	
68	EFGC175.105	Shaft sleeve	1	
69	GB/T 1096-10×40	Ordinary flat key A 10×40	1	
70	GB/T 96.1-Ø8	Large flat washer 8	4	
71	GB/T 93-Ø8	Spring washer 8	4	
72	GB/T 5783-M8×16	Bolt M8×16	4	
73	EFB200-104	Drive shaft	1	200/220
	EFH260-104	Drive shaft	1	240/260
74	EFGC175.123	PTO protective cover	1	

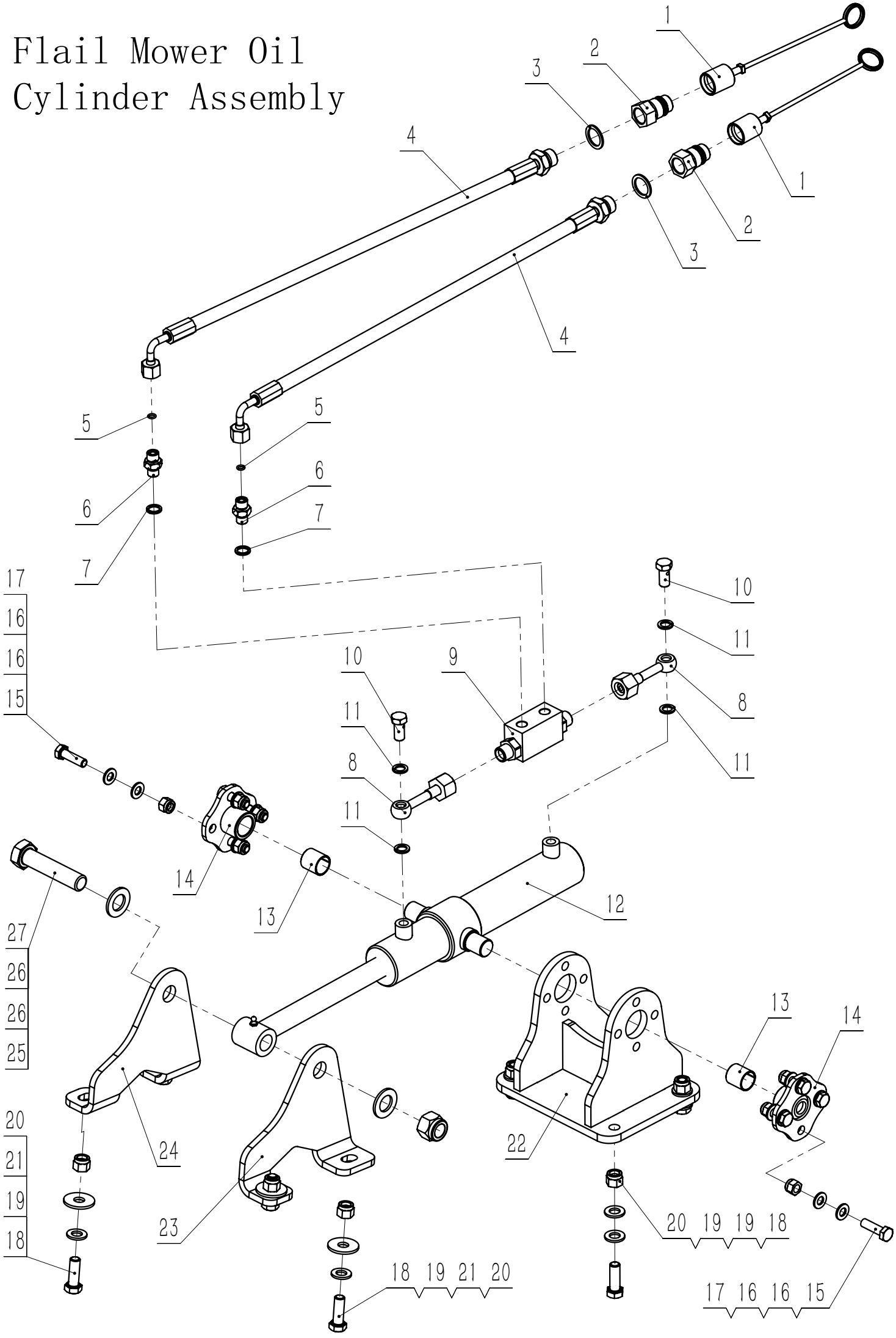
75	EFB200-013	Hood welded parts	1	200
	EFB220-013	Hood welded parts	1	220
	EFB240-013	Hood welded parts	1	240
	EFB260-013	Hood welded parts	1	260
76	EFGC175.118	Paper pad	1	
77	GB/T 70.1-M12×35	Hexagon socket head screw M12×35	4	50HP
	ISO12474-M12×1.25×35	Hexagon socket head screw M12×1.25×35	4	Gearbox included (65HP)
Note:The mounting bolts for the 240/260 65HP gearbox are GB/T 5786 standard bolts M16×1.5×35 and their corresponding washers.				

Flail Mower Lifting Assembly



S/N	Part Number	Name & Specification	Q'ty	Rema
1	GB/T 6171-M20×1.5	Ordinary nut M20×1.5	1	
2	GB/T 93-Ø20	Spring washer 20	1	
3	EFGCH175.101	Cylinder spacer	1	
4	JB/T 982-Ø12	Combination washer 12	4	
5	EFGCH175.106	Hollow bolt	2	
6	EFGCH175.011-2	Oil pipe assembly (1900)	1	
7	EFB200-105	Sliding cylinder	1	
8	EFGCH175.011-1	Oil pipe assembly (1500)	1	
9	JB/T 982-G1/2	Combination washer G1/2	2	
10	AGF140.146	Quick-change joint	2	
11	AGF140.147	Quick-change joint dust cover	2	
12	GB/T 6173-M20×1.5	Ordinary thin nut M20×1.5	2	
13	EFB200-011	Suspension weldment	1	Standard
	EFB200-011A	Suspension weldment	1	Optional
14	GB/T 5782-M10×110	Bolt M10×110	4	
15	GB/T 97.1-Ø10	Flat washer 10	8	
16	GB/T 889.1-M10	Lock nut M10	4	
17	EFB200-016	Spacer weldment	4	
18	GB/T 889.1-M16	Lock nut M16	8	
19	GB/T 97.1-Ø16	Flat washer 16	16	
20	GB/T 5783-M16×50	Bolt M16×50	8	
21	AG240.101	Round pipe plug	4	
22	GB/T 895.1-Ø65	Wire retaining ring for hole 65	4	
23	SF-2 6050	Boundary lubricated bearing 60×65×50	4	
24	EFB200-118	Lock pin assembly (11×50)	2	EFB200-011
25	EFB200-110	Lower suspension pin	2	EFB200-011
	AGH200.055	Lower suspension pin weldment	2	EFB200-011A
26	EFGC175.129	Lock pin assembly	2	EFB200-011
	EFGC175.129	Lock pin assembly	3	EFB200-011A
27	EFB200-103	Guide rail	2	
28	AGL125-111	Hook	1	
29	GB/T 1230-Ø24	High-strength washer for steel structure 24	1	Ø25.4×Ø45.5×5 （EFB200-011）
30	AG170.115	Lock pin 4.5	1	EFB200-011
31	FVH200.025	Upper suspension pin weldment	1	EFB200-011
	AGF140.110	Upper suspension pin	1	EFB200-011A

Flail Mower Oil Cylinder Assembly



S/N	Part Number	Name & Specification	Q'ty	Remark
1	AGF140.147	Quick-change connector dust cover	2	
2	AGF140.146	Quick-change connector	2	
3	JB/T 982-G1/2	Combination washer G1/2	2	
4	EFGCH175.011-1	Oil pipe assembly (1500, with black cloth cover)	1	If rear cover is a to the hydrauli cylinder, this configuration i standard.
	EFB200.116	Oil pipe assembly (1750, with black cloth cover)	1	
	EFB200-117	Oil pipe assembly 3500	2	Adding a rear cove the hydraulic cyli is an optional feature.
5	GB/T 3452.1-6.3(inner diameter)×1.8	O-ring 6.3 (inner diameter) × 1.8	2	
6	AGF140.133	Oil pipe adapter	2	
7	JB/T 982-G1/4	Combination washer G1/4	2	
8	EFB200-114	Hinged pipe joint	2	
9	AGF140.143	Two-way hydraulic lock (DPOCV-1/4-12L)	1	
10	EFGCH175.106	Hollow bolt	2	
11	JB/T 982-Ø12	Combination washer 12	4	
12	EFB200-115	Rear cover cylinder	1	
13	SF-2 2225	Boundary lubrication bearing 22×25×25	2	
14	EFB200-025	Cylinder fixed seat weldment	2	
15	GB/T 5783-M10×35	Bolt M10×35	8	
16	GB/T 97.1-Ø10	Flat washer 10	16	
17	GB/T 889.1-M10	Lock nut M10	8	
18	GB/T 5783-M12×35	Bolt M12×35	8	
19	GB/T 97.1-Ø12	Flat washer 12	12	
20	GB/T 889.1-M12	Lock nut M12	8	
21	GB/T 96.1-Ø12	Large flat washer 12	4	
22	EFB200-024	Cylinder connecting plate weldment	1	
23	EFB200-112	Cylinder right mounting plate	1	
24	EFB200-113	Cylinder left mounting plate	1	
25	GB/T 889.1-M20	Lock nut M20	1	
26	GB/T 97.1-Ø20	Flat washer 20	2	
27	GB/T 5782-M20×90	Bolt M20×90	1	

The information contained in this operations manual is a general introduction only. The information contained herein may be modified at any time, for any reason. Modification may affect the details or specifications of the product described in this manual. Therefore, users – dealers must include the manufacturing date and serial number when placing an order for spare parts and components. Thanks.