



# Operator Manual & Parts List

## MAJOR

### ProMow Discmower

MJ50-240

MJ50-270

MJ50-300



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## **Disclaimer**

While every effort has been made in the production of this manual to ensure that the information contained herein is full and correct, Major assumes no responsibility for errors or omissions.

Major reserves the right to modify the machinery and the technical data contained within the manual without prior notice.

Further to this, Major assumes no liability for any damages which may result from the use of the information contained within this manual.

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## **EEC certificate of conformity for machines**

*(conforming to Directive 98/37/EEC)*

Company: Major Equipment Ltd.  
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*declares in sole responsibility that the product:*

### **MJ50 DISCMOWER**

When properly installed, maintained and used only for it's intended purpose, complies with all the essential Health & Safety requirements of:

- **THE SUPPLY OF MACHINERY (SAFETY) REGULATIONS 2008.**
- **S.I. No. 299 of 2007**, Safety, Health and Welfare at Work (General Application) Regulations 2007 (Ireland).
- **Health & Safety at Work, etc. Act 1974 (c.37) (UK).**
- **EN ISO 14121-1: 2007** 'Safety of machinery. Principles for risk assessment'.
- **EN 745** - Agricultural Machinery - Rotary Mowers and Flail Mowers - Safety.
- **EN ISO 13857** - Safety of machinery: Safety distances to prevent hazard zones being reached by upper and lower limbs.

I certify on behalf of Major Equipment Int. Ltd., that this machine when properly installed and operated correctly, complies with all the essential Health & Safety requirements of all legislation referred to above.

Signature :   
\_\_\_\_\_  
Managing Director

Date 12/06/2014

# Introduction

## Thank you

We appreciate having you as a customer and wish you many years of safe and satisfied use of your machine.

## Using Your Operator's Manual

This manual is an important part of your machine and should remain with the machine when you buy it. Reading your operator's manual will help you and others avoid personal injury or damage to the machine. Information given in this manual will provide the operator with the safest and most effective use of the machine.

Sections in your operator's manual are placed in a specific order to help you understand all the safety messages so you can operate this machine safely. You can also use this manual to answer any specific operating or servicing questions.

## Safety Aspects

Your manual contains special messages to bring attention to potential safety concerns, machine damage as well as helpful operating and servicing information. Please read all the information carefully to avoid injury and machine damage.

## Intended use

This machine is a grass cutting machine and designed for cutting grass. Moreover, it must only be used with a suitable tractor (see "Product Specifications" section of this booklet) and driven by an adequate drive-line of the tractor PTO. All other use is strictly prohibited.

# Product Identification

## Machine Serial Numbers

If you need to contact MAJOR or your MAJOR dealer for information on servicing or spare parts, always provide the product model and serial numbers. Model and Serial number can be found on the Serial Plate located on the machine.

We suggest that you record your machine details below:

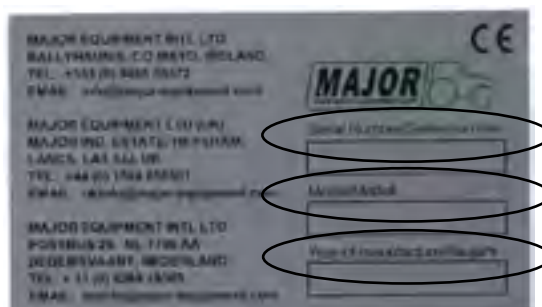
Model No: \_\_\_\_\_

Serial No: \_\_\_\_\_

Date of Purchase: \_\_\_\_\_

Dealer Name: \_\_\_\_\_

Dealer Telephone: \_\_\_\_\_



## Register Your Product and Warranty Online

To register your product through the Internet, simply go to the Support section on [www.major-equipment.com](http://www.major-equipment.com). Completing the information, either online or with the product warranty card, will ensure the customer that their product receives all post sales service and important product information.

This machine is warranted for 12 months with. No warranty is given where the machine is being used as a hire machine. Warranty is against faulty workmanship or parts.

Warranty covers parts only. All parts must be returned to the manufacturer. No warranty can be considered unless parts are returned. All replacement parts will be supplied on a chargeable basis until warranty has been accepted.

## Product Specifications

<b>Model</b>	<b>MJ50-240</b>
<b>Overall Width</b>	4.4m
<b>Working Width</b>	2.42m
<b>Transport Width</b>	1.8m
<b>No. of Blades</b>	12
<b>No. of Discs</b>	6
<b>Power (HP)</b>	40-90
<b>PTO (rpm)</b>	540
<b>Blade tip speed</b>	4670 m/min
<b>Cutting Height</b>	55mm
<b>Weight</b>	560kg

# Safety

## Machine Safety Labels

The machine safety labels shown in this section are placed in important areas on your machine to draw attention to potential safety hazards.

On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with this safety alert symbol. DANGER identifies the most serious hazards.

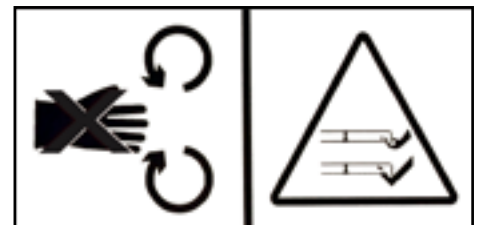
The operator's manual also explains any potential safety hazards whenever necessary in special safety messages that are identified with the word, CAUTION, and the safety-alert symbol



To avoid injury, read the manual



PTO entanglement hazard - keep clear of PTO drives.



Rotating blade hazard



Grease points



High oil pressure hazard



Moving parts

## Hazards associated with operating Grass Cutting Machinery

### Shear Hazard

Shear hazards are created when the edges of two objects move toward or next to each other closely enough to cut relatively soft material. This can include the parts of the machine under hydraulic control when operating from transport to mowing position. Note, the wing units are designed to float independently of the centre deck & are free to move within operating limits.

### Crush Hazard

Bystanders can be injured when machine is lowered into mowing position. Winged machines have crush points around the hinge areas & between the wing & main body. Always use transport locking bars when not in use (winged models only).

### Rotating Blade Hazard

All persons are at risk if they place their hands or feet under the machine when it is raised from the ground when the blades are in motion.

### Pinch Hazard

Pinch points are created when two objects move together, with at least one of them moving in a circle. This hazard is common in power transmission devices such as Belt Drives, Gear Drives & Rollers. Ensure all guarding is present.

### Wrap Hazard

Any exposed, rotating machine component is a potential wrap point. Injuries usually occur when loose clothing or long hair catch on and wrap around rotating parts such as PTO shafts or Drive shafts on the machine. Ensure all guarding is present.

### Free-wheeling parts Hazard

The heavier a revolving part is, the longer it will continue to rotate after power is shut off. This characteristic is called 'free-wheeling.' Blades, and various other components, drive shafts etc., will continue to move after power is shut off - often for several minutes. Injuries occur when:

- Operators shut off equipment, and attempt to clean or adjust a machine before components have completely stopped moving.
- Shear bolt protection device in PTO shaft shears & the mowing parts are still spinning but the primary PTO shaft is stationary. Operator awareness is the key to safety around freewheeling parts. Never raise the machine while the blades are still rotating.

### Thrown objects Hazard

Machines throw material as a natural part of doing their job. Foreign objects, such as stones, sticks and other debris, may be taken into this equipment and expelled at tremendous speed. These objects are contained by the sides of the machine and by the rear/front rollers / guards / chain guards / rubber skirts depending on model of your machine.

Ensure bystanders are clear from the machine & cannot be hit with debris expelled from the machine. Bystanders or animals in the path of thrown objects could be seriously injured. Never operate machine with decks raised from the ground as this makes the front/rear protection redundant.

### Hydraulic Hazard (if applicable)

Hydraulic systems store considerable energy. Careless servicing, adjustment, or replacement of parts can result in serious injury. High pressure blasts of hydraulic oil can injure eyes or other body parts. The following precautions are crucial:

- Make certain the hydraulic pump is turned off.
- Lower attached equipment to the ground.
- Confirm that load pressure is off the system.

A pinhole leak in an hydraulic hose is a serious hazard. A leak may not be visible, and the only sign may be a few drops of fluid. Never inspect hydraulic hoses with your hands, because a fine jet of hydraulic fluid can pierce the skin.

### Slips, Trips and Falls Hazard

Slips and falls often result from:

1. Slippery footing on the ground
2. Cluttered steps and work platforms.

The potential for slips and falls can be greatly reduced by using good judgement and practicing good housekeeping on and around equipment.



## Noise Hazard

Please note that the machine is normally used outdoors and that the position of the operator is seated in the driving seat of the tractor. It is advisable to consult the prescriptions listed in tractor operator and maintenance manuals.

The acoustic pressure at a distance of 2.6m from the centre of the machine and at a height of 2.0m, with the implement operating in a no load condition can reach 90 dBA. In a loaded condition & a PTO rate of 540 rpm the value can reach 97dBA. Higher rate of PTO input will result in in higher noise levels. Always wear hearing protection.

## Operating Safely

This MAJOR machine is designed to operate at a PTO rate which is stated in the Product Specifications part of this booklet. Ensure tractor PTO output is set at a correct RPM rate. This MAJOR machine must only be used for purposes outlined in the Intended Use section of this booklet. All other use is strictly prohibited.



Users should become thoroughly familiar with the contents of this manual before using, servicing and mounting the implement to the tractor and all other pertinent operations. Never wear jewellery, loose clothing such as ties, scarves, belts, unbuttoned jackets or dungarees with open zips which could become caught up in moving parts.



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



Consult your retailer, the Labour Health Service or your nearest equivalent authority for the information about the current safety provisions and specific regulations with in order to ensure personal safety.



**ALWAYS DISENGAGE PTO, SWITCH OFF THE TRACTOR ENGINE AND ENGAGE THE PARKING BRAKE BEFORE MAKING ADJUSTMENT TO THE MACHINE.**



**NEVER PLACE LIMBS UNDER THE MACHINE WHILE ROTOR(S) ARE TURNING. ROTOR(S) CAN REMAIN TURNING FOR UP TO 1 MINUTE AFTER DISENGAGING PTO.**

## Workstation

The operator must remain seated while working the machine. If the machine is a winged unit and the wings need to be raised/lowered the operator must not leave the tractor. Always ensure the PTO has been turned off and the parking brake applied before leaving the tractor cab or carrying out maintenance.



**NEVER OPERATE THE HYDRAULICS WITH THE TRACTOR SWITCHED OFF**

## Regulations for use of the transmission

The transmission to the gearboxes is protected throughout the machine by both PTO shafts and bolt down covers. All guarding should be kept efficient and in good condition. If the condition is poor, the guarding should be renewed before the implement is used.



**UNLESS IT IS CORRECTLY PROTECTED THE TRANSMISSION COULD CAUSE DEATH SINCE IT CAN CATCH ON PARTS OF THE BODY OR CLOTHING**

Ensure retaining chains are correctly anchored on all PTO shafts, preventing them from turning. Ensure drive line can turn easily within the shield. Keep spline grooves clean and greased so that PTO shaft can connect easily. Besides being described in this booklet, the method by which the PTO shaft is connected to the tractor must be checked out with the instructions in the tractor manufacturer's manual.



## PTO Shaft Safety

Maximum PTO input is specified in the Product Specifications section of this booklet. Contact your nearest dealer or a specialised retail outlet if the PTO must be replaced with a longer one, since this must belong to the same power category and possess the same characteristics. An unsuitable PTO could easily break.

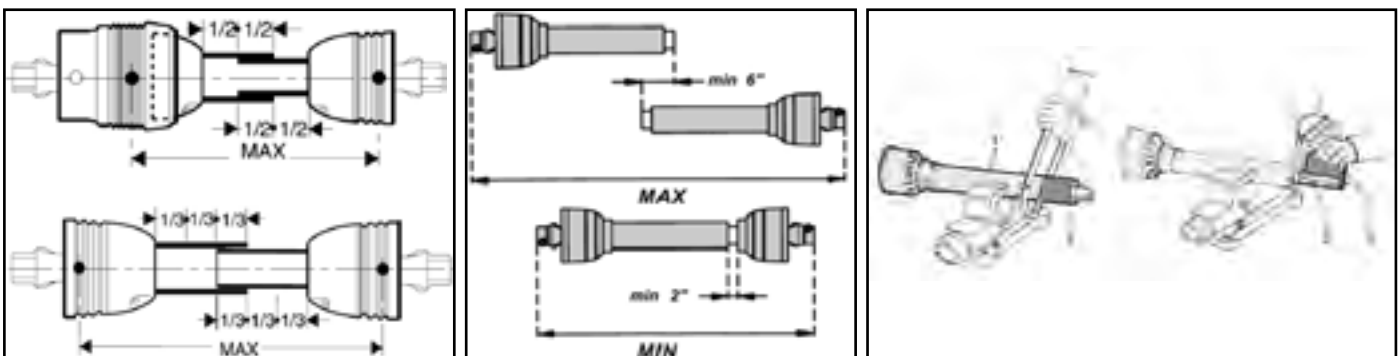
The tractor PTO shaft length may be altered to suit the individual tractor model. When the machine is in operation, the PTO shaft should have a minimum 1/3 engagement as shown in the diagrams. After the machine has been hitched to the tractor, it should be checked in various positions that the drive line is the correct length. If the PTO is too short and tends to slip out of place, it must be replaced with a longer one.

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

- Set the machine at a minimum distance from the tractor, then brake the tractor and switch off the engine.
- Separate the two halves of the PTO. Insert the female part into the tractor PTO and the male part into the machine PTO, checking that the position is correct by means of the fixing pins.
- Line up the two halves of the PTO together, keeping them parallel.
- Using a felt tip pen, match mark the place where the two halves must be shortened as shown.
- First cut shield "1" and use part "2" as a reference to cut the splined shaft.
- Proceed in the same way for the second half.
- Trim and chamfer the two cut ends of the PTO and clean off all swarf and shavings.
- Grease the two profiles and join the two halves of the PTO together.
- Mount the PTO shaft and check that its length is correct as before.



Do not use the shaft cone as a step



## Driving Safely on Public Roads

Check the local Highway Code regulations before driving the tractor on public highways with an implement attached. Check the reflectors, hazard flashers and/or projecting load indicators are installed when required and efficient. These indicators must be installed correctly and easily seen by the drivers of other vehicles.

Bystanders must not be allowed to lean against or climb onto the machine during transport or while working. Do not allow bystanders to ride on the machine.



MAXIMUM TRANSPORT SPEED MUST NOT EXCEED 30 km/hr (18 MPH)

## General safety instructions

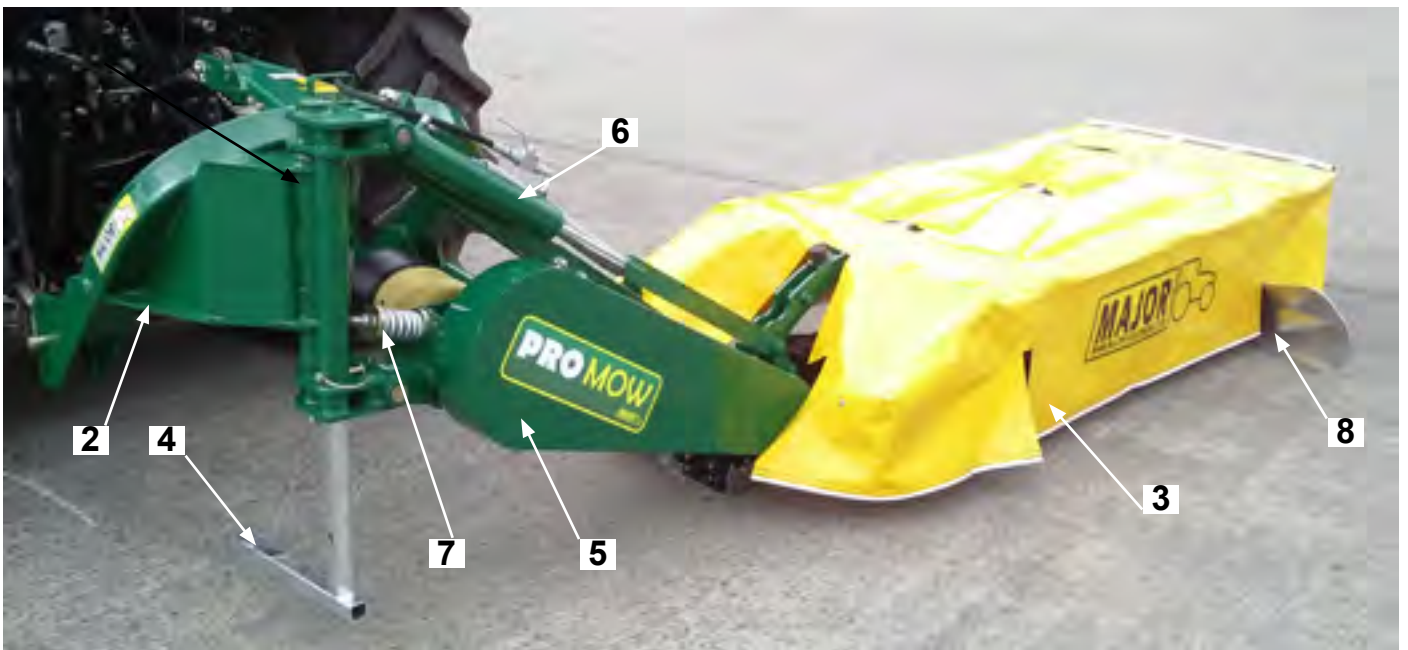
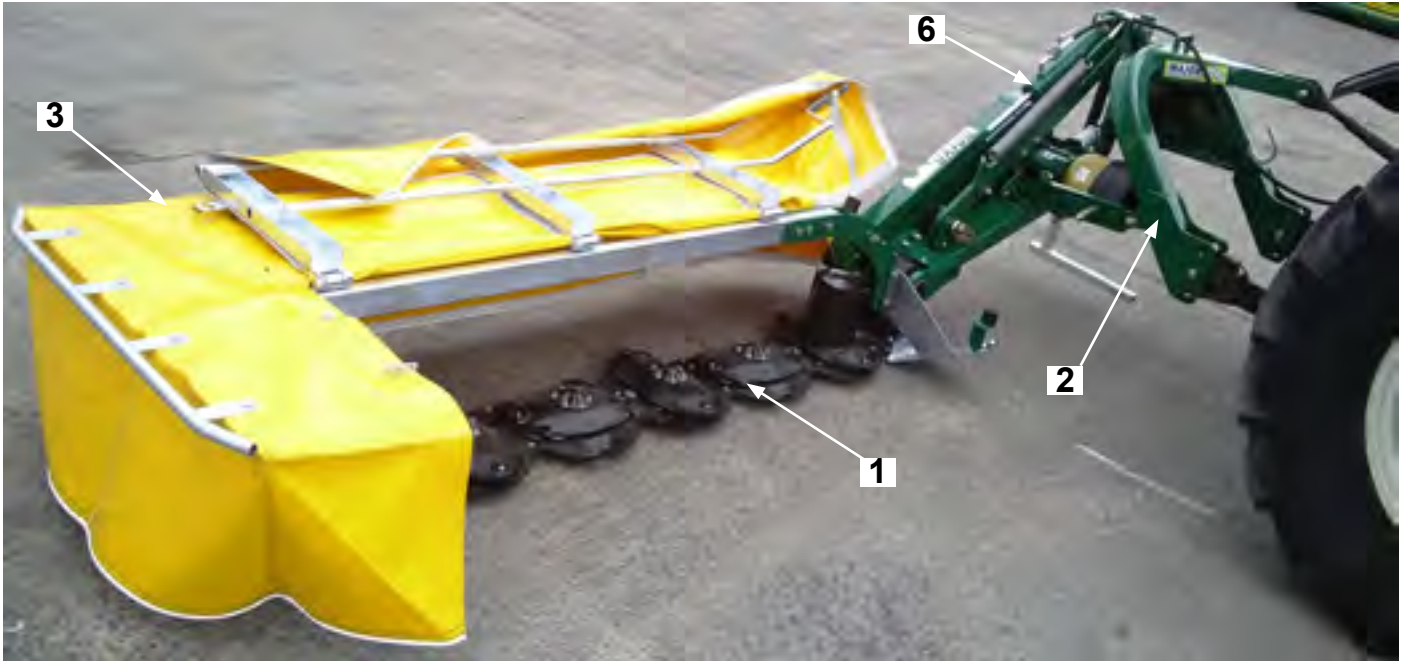
Precautions to be taken while working with the machine:

1. Do not operate the machine when you are tired;
2. Before starting mowing, make sure that the area is clear of people or animals.
3. Before starting adjusting the machine, it is mandatory to disconnect the PTO, to turn off the engine of the tractor, apply handbrake and wait for the turning parts to become still and placed on the ground.
4. It is mandatory to read all the safety requirements and the operator's manual of the machine.
5. If you are not sure how to use the machine, please contact the manufacturer or the dealer.

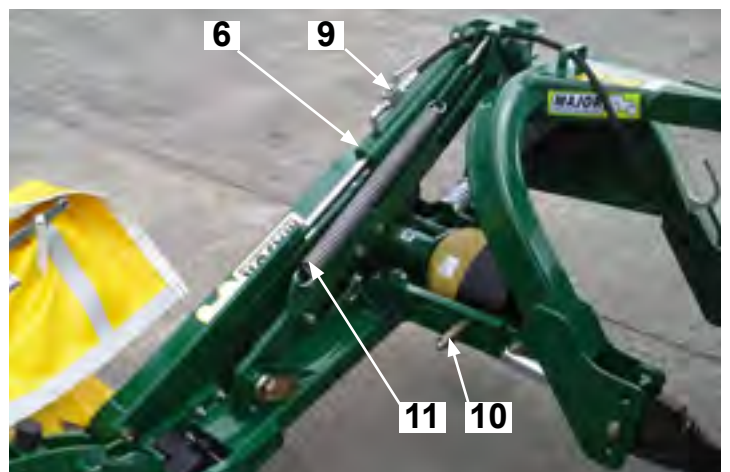
# Operating the Machine

This machine is designed to be connected to a tractor by using a standard 3 point linkage connection.

## Key to Main Parts



1	Cutting bed
2	Headstock
3	Tarpaulin cover
4	Park stand
5	Belt cover
6	Hydraulic ram
7	Belt tensioner
8	Grass diverter
9	Safety valve
10	Breakaway unit
11	Float spring

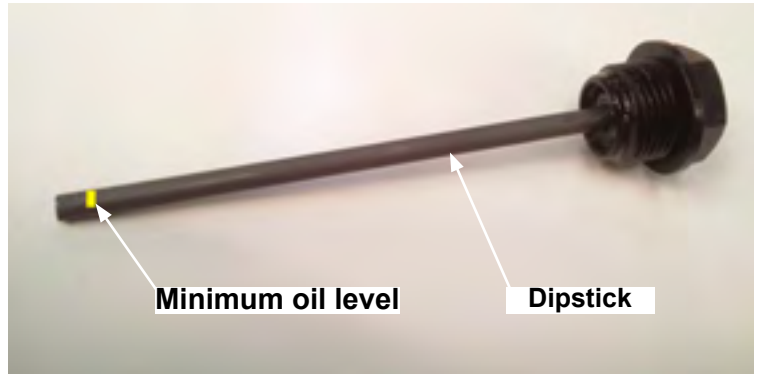


## Inspections before Use



Always disengage PTO, Switch off tractor engine and engage the parking brake before making adjustments to the machine.

1. With the whole machine as level as possible, check the oil level in the Gearbox. To do so unscrew the dipstick from the gearbox and ensure that the oil level is above the “minimum level” mark.



2. Grease the PTO shaft universal joints and other components which require lubricating.
3. Check the blades for wear and damage and replace worn blades with new ones if required.
4. Check tightness of all nuts, bolts and retaining screws after the first and second hours of work.
5. Ensure that the tarpaulin cover has no rips and fits the guard frame fully.
6. Due to the corrosive nature of grass when cut, wash down the machine when finished mowing, especially when the machine is being stored for a long period of time.

## Starting Regulations



Always check that any imminently dangerous conditions have been eliminated before using the machine. Ensure all guarding is present & the operator is fully aware of the operations of the machine.



Always ensure the pins lock the PTO shaft yoke ends onto the spline shafts on both the tractor and the implement. An unlocked shaft could slip out of position, causing notable mechanical damage and serious injury to both operator and bystanders.

## Attaching the machine to the Tractor



Always operate on level ground when attaching/detaching the machine. This will prevent dangerous movement. Never allow anyone to stand between the tractor and the machine.

1. Adjust both lift arms of the tractor until they are level in relation to each other.
2. Hitch the lower linkage arms to the Machine and connect the top link. Ensure that the locking pins are secure.
3. Connect the PTO shaft and check for length as previously described.

## Transport Position



Before raising the machine wait until the transmission and the blades are completely still. During the transport of the machine it is recommended that the PTO shaft is disconnected.

1. Ensure the machine is hitched to the tractor as described. Ensure the tractor parking brake is applied
2. Ensure moving parts become still then transform the machine into transport position by hydraulic control
3. During the transport and any time the machine shall be raised, the raising device shall be adjusted to assure that the machine is at least 250mm over the ground.
4. Ensure the following (as shown on the diagrams below):
  - Parking stand is in the transport position;
  - Safety tab is in transport position;
  - Hydraulic safety valve is shut off.

## Transport position







**Parking stand in transport position**



**Safety Tab in transport position**



**Hydraulic valve in transport position**



**Flotation restrictor in transport position**

## Operating the Machine/Mowing



Never place limbs under the machine while rotors are turning. Rotors can remain turning for up to 1 minute after disengaging PTO.



While operating this machine the PTO input rate should not exceed the RPM stated in the Product Specifications section of this booklet.



Never allow anyone to stand between the tractor and the machine. Ensure the machine is attached correctly to the tractor as previously described. Always start up the tractor PTO at a low RPM. Build up to operating speed, select a suitable forward gear & proceed to cut grass.

1. Hitch the machine as outlined in the previous section. Ensure bystanders are clear from the machine & mower can be safely lowered.
2. Check PTO shaft is fully engaged on tractor PTO splines.
3. Ensure the Parking stand is mowing position.
4. Lower the machine by hydraulic control to the ground or use tractor linkage controls.
5. Open the hydraulic safety valve.
6. Place safety tab into mowing position.
7. Lower the cutting bed.
8. Put Flotation restrictor into mowing position
9. Start up the tractor PTO at a low RPM.
10. Build up to operating speed, select a suitable forward gear & proceed to cut grass.



**Mowing position**



**Safety Tab in mowing position**



**Hydraulic valve in mowing position**

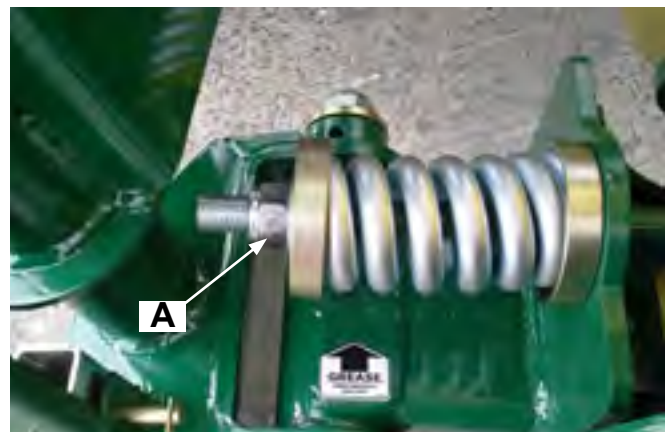


**Flotation restrictor in mowing position**

## Automatic belt tensioner

To provide a good quality cut and prolong the life of machine's components belts must be tensioned at all times. This machine is equipped with a spring tensioner which automatically keeps the belts in tension. Overtime, belts will stretch and become unusable. Replace worn belts when necessary.

To prevent belt slippage, it is necessary to periodically check the belt tension. To increase tension, tighten nut **A** on the threaded bar. It is very important for the belt tension to be checked after the first hours of work, and later with weekly checks.



## Breakaway

In order to protect the machine from damage, breakaway unit is fitted to all MJ50 mowers. Should the machine run into an obstacle, the breakaway latch will release and the whole machine will swing back. Tension in the spring is set at the factory to cater for the most common cutting conditions. This setting is achieved by keeping the distance of 95mm between the latch and the nut.

To reset the machine into mowing position, reverse slowly until the latch locks in its original place.



## Regular checks

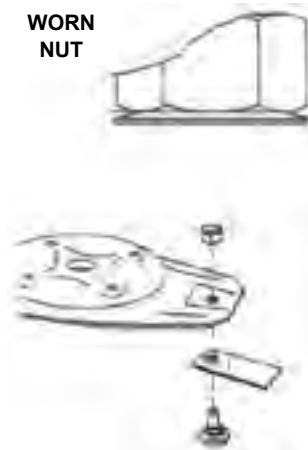
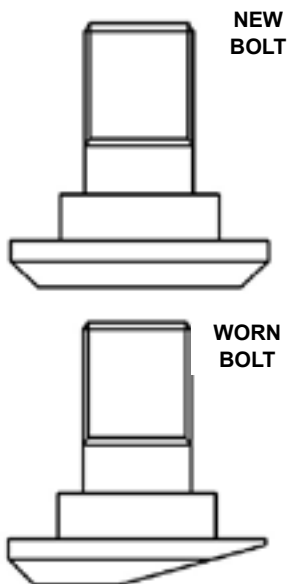


**Before proceeding with any maintenance or adjustment, rest the machine firmly on the ground, turn off the tractor engine and disconnect the PTO shaft.**

- Discs, blades, and fastening bolts are made of a special high-quality steel and heat treated to increase their durability and resistance to wear. Worn or damaged parts must be immediately replaced with original MAJOR parts, otherwise warranty will void.
- Regular checks of blade bolts (every 40 work hours) must be carried out. If mowing in rough conditions checks should be carried out more often
- Replace nuts when they show evident wear.

## Blade replacement

Rotate the disc perpendicularly to the mowing bar (diagram below) and unscrew the nut. Pull out the blade retaining bolt from underneath the disc and replace the blade.



**Worn bolts, nuts and blades must be replaced immediately**

# Maintenance

The machine must always be disconnected from the tractor before any cleaning, lubricating and servicing operations can be carried out. Maintenance must be carried out by qualified personnel.

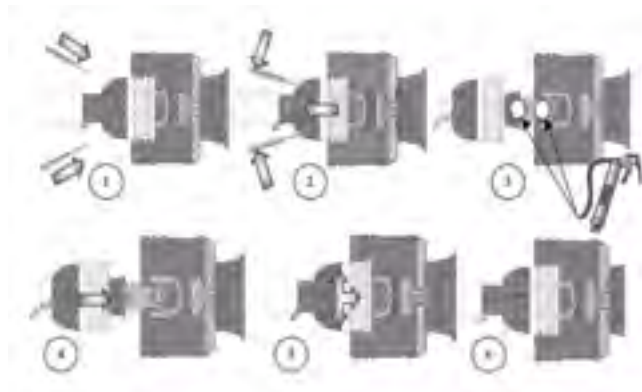
If emergency operations are required whilst the machine is connected to the tractor, switch off the engine, engage the parking brake and disengage the PTO.

Good, regular maintenance and correct use are advised if the machine is to remain safe and long lasting.

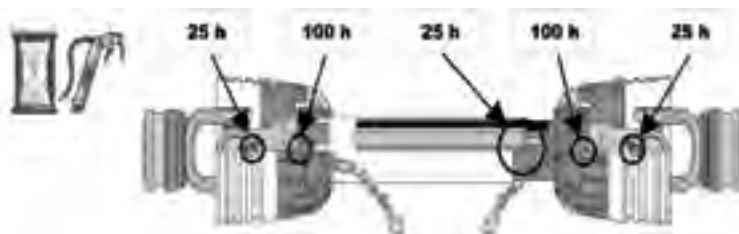
## PTO Shaft Maintenance

### Guard Removal and Yoke End Greasing

1. Prise back locking tabs
2. Pull back PTO Guard
3. Grease points as shown
4. Push Guard into position
5. Click into place
6. Tie check chain



### PTO Guard Greasing Intervals



### Maintenance of other components

- All nuts and bolts in the transmission including Belt pulleys<sup>P</sup> should be checked for tightness after mowing at the following intervals:  
 1st 40 hours  
 1st 100 hours  
 1st 250 hours  
 And every 250 hours thereafter.
- Check blades on a regular basis for wear. Replace any damaged or worn parts immediately.

### Greasing Schedule

Lubricate moveable mechanical joints when required.



Overgreasing Drive Shaft Assembly may cause damage to your machine as grease may get in contact with belts and pulleys.

	First 8 hours	40 hours thereafter
PTO Shaft Yoke Ends	●	●
Drive Shaft assembly	●	●
Pivot arm	●	●
Grass diverter wheel	●	●

## Cutting Bed oil

Cutting bed oil drain plug is located underneath the gearbox.

Oil filler plug is located after the second cutting disc on top of the cutting bed.



## Oil Amounts

Machine type	Cutting bed part number	Oil amount (litres)
MJ50-240	9.506.212.20	3.06
MJ50-270	9.507.207.00	3.51
MJ50-300	9.508.207.00	4.05

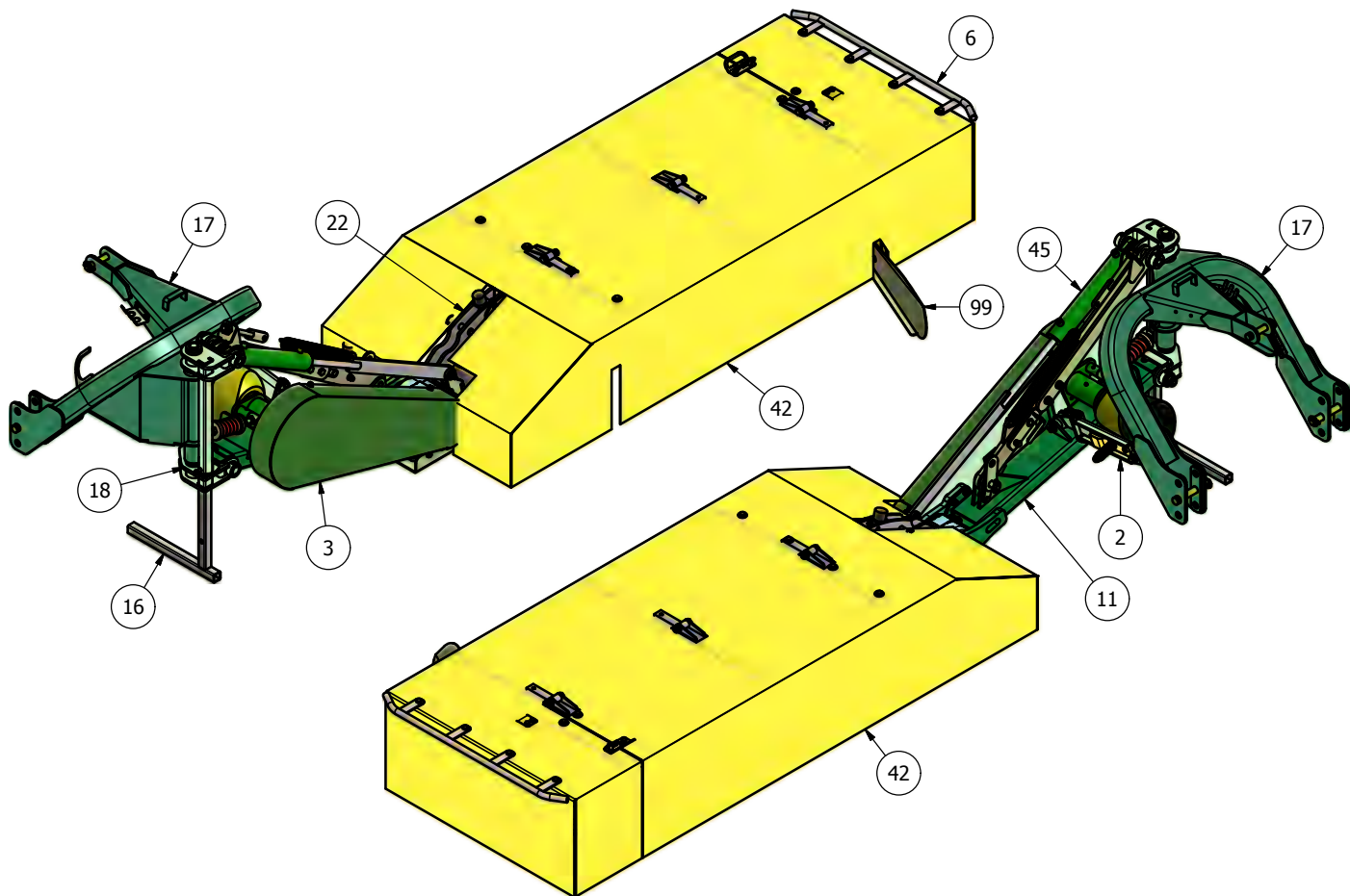


## Troubleshooting

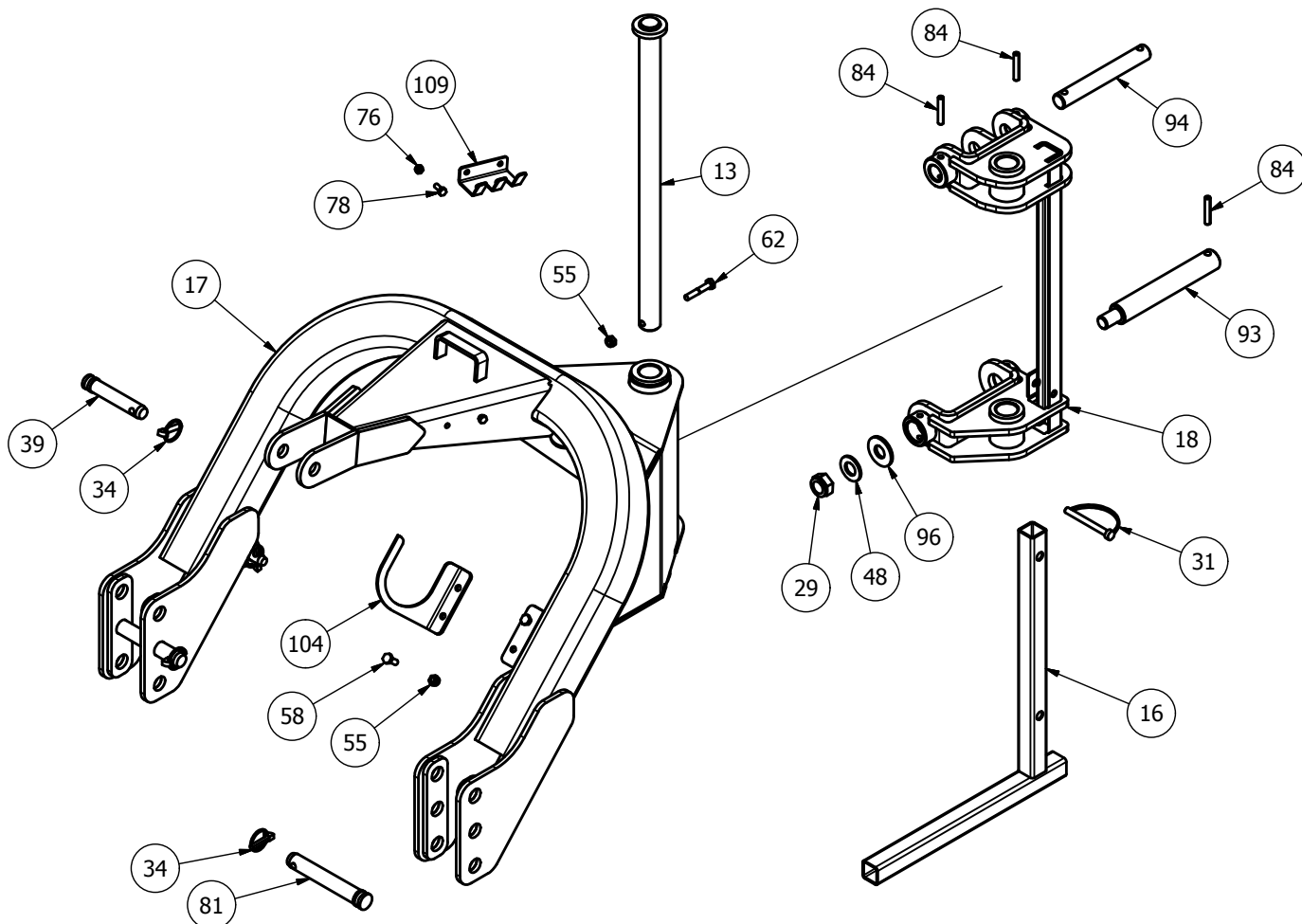
Fault	Cause	Remedy
Leaves a streak of uncut or partially cut grass	Blades dull or bent	Replace blades
	Carrier RPM too low	Use correct PTO speed
	Field conditions are so wet that the tractor tyre is pushing grass into mud	Too wet to mow. Stop operation and wait until it is drier
	Ground speed too fast	Reduce ground speed by shifting to a lower gear
Material discharges from mower unevenly; bunches of material along with swath	Material too high and too much material	Reduce ground speed but maintain 540rpm at tractor PTO or make two passes over material. Raise mower for the first pass and lower to desired height for the second and cut a 90 degree angle to first pass
Bed overheating	Low on lubricant	Fill to proper level
	Improper type lubricant	Replace with proper lubricant
	Excessive grass / debris build-up around disks	Remove grass, etc from machine
Blade is scalping ground	Mower too low	Raise mower
	Field is ridged	Cut field at a different angle
	Field is too wet	Stop and wait until it is dried
Mower will not cut.	Shear bolt sheared	Install new shear bolt
	Belts torn	Replace belts
Blades wear too fast	Cutting in sandy conditions	Increase cutting height
	Cutting in rocky conditions	Increase cutting height
	Blades hitting ground	Increase cutting height
Mower seems to require excessive power	Advancing into grass too rapidly	Reduce forward travel speed
	Hitting ground	Raise mower
	Worn or dull blades	Sharpen or replace blades
	Tractor not large enough	Use larger horsepower tractor
	Some of the belts are torn	Replace belts
Excessive vibration	Blade broken	Replace blades, in set
	New blade or bolts matched with worn blade or bolts	Replace blades or bolts in sets
	Gears in bed are worn	Replace gears
Noisy machine	Worn bearing	Replace bearings
	Loose Parts	Check all bolts are fully tightened
	Wrong PTO rpm rate	Check PTO rate & adjust as necessary
	Low on lubricant	Fill to proper level
	Bent PTO shaft	Check PTO shafts are aligned correctly
		Check input shaft and pulley
Check driveline between gearboxes is aligned.		
Bed leaking	Damaged oil seal	Replace seal
	Bent shaft	Replace oil seal and shaft
	Shaft rough in oil seal area	Replace or repair shaft
	Oil seal installed incorrectly	Replace seal
	Oil seal not sealing in the housing	Replace seal or use a sealant on outside diameter of seal
	Oil level too high	Drain oil to proper level
	Gasket damaged	Replace gasket
	Bolts loose	Tighten bolts

# MJ50 Spare Parts

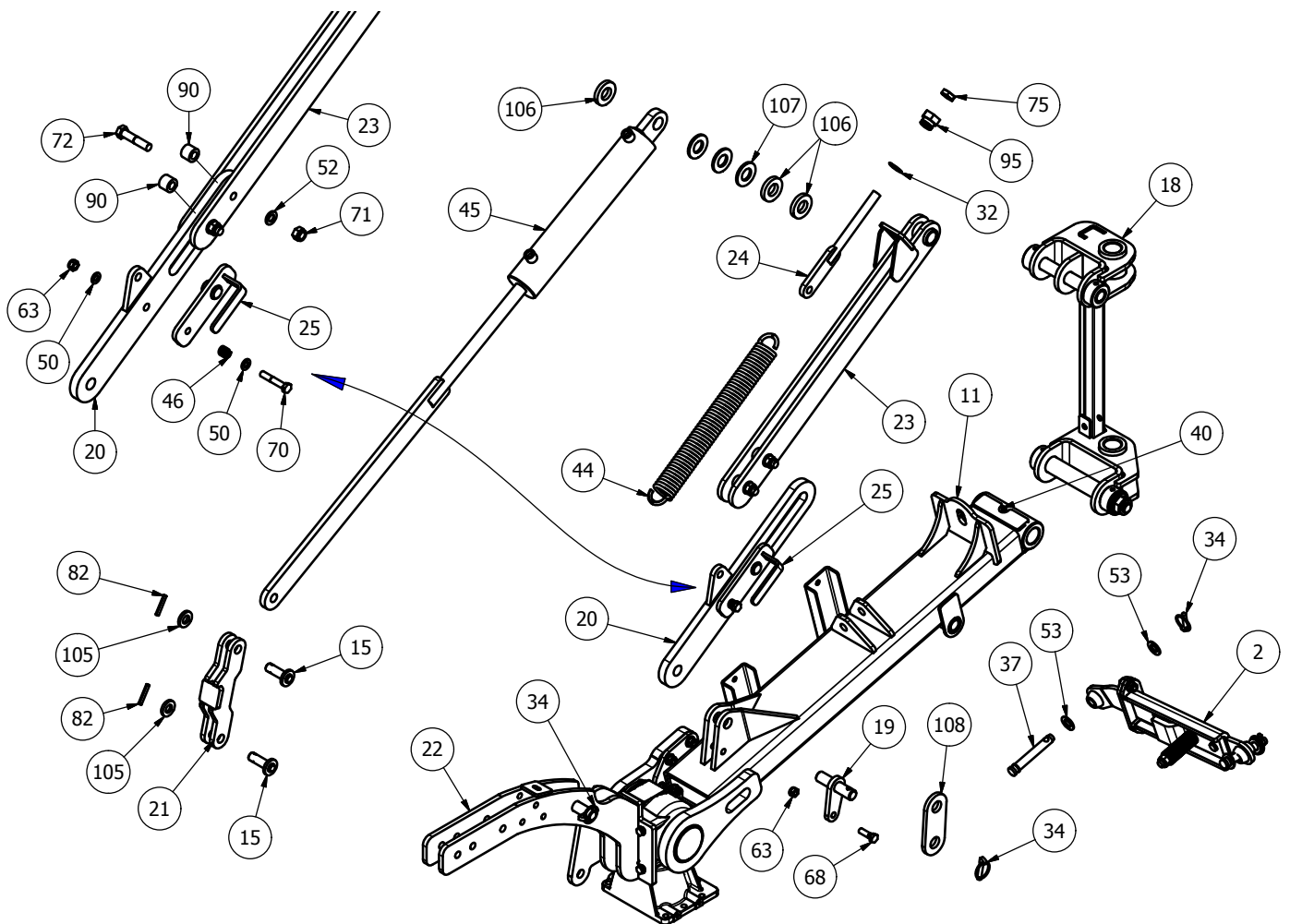
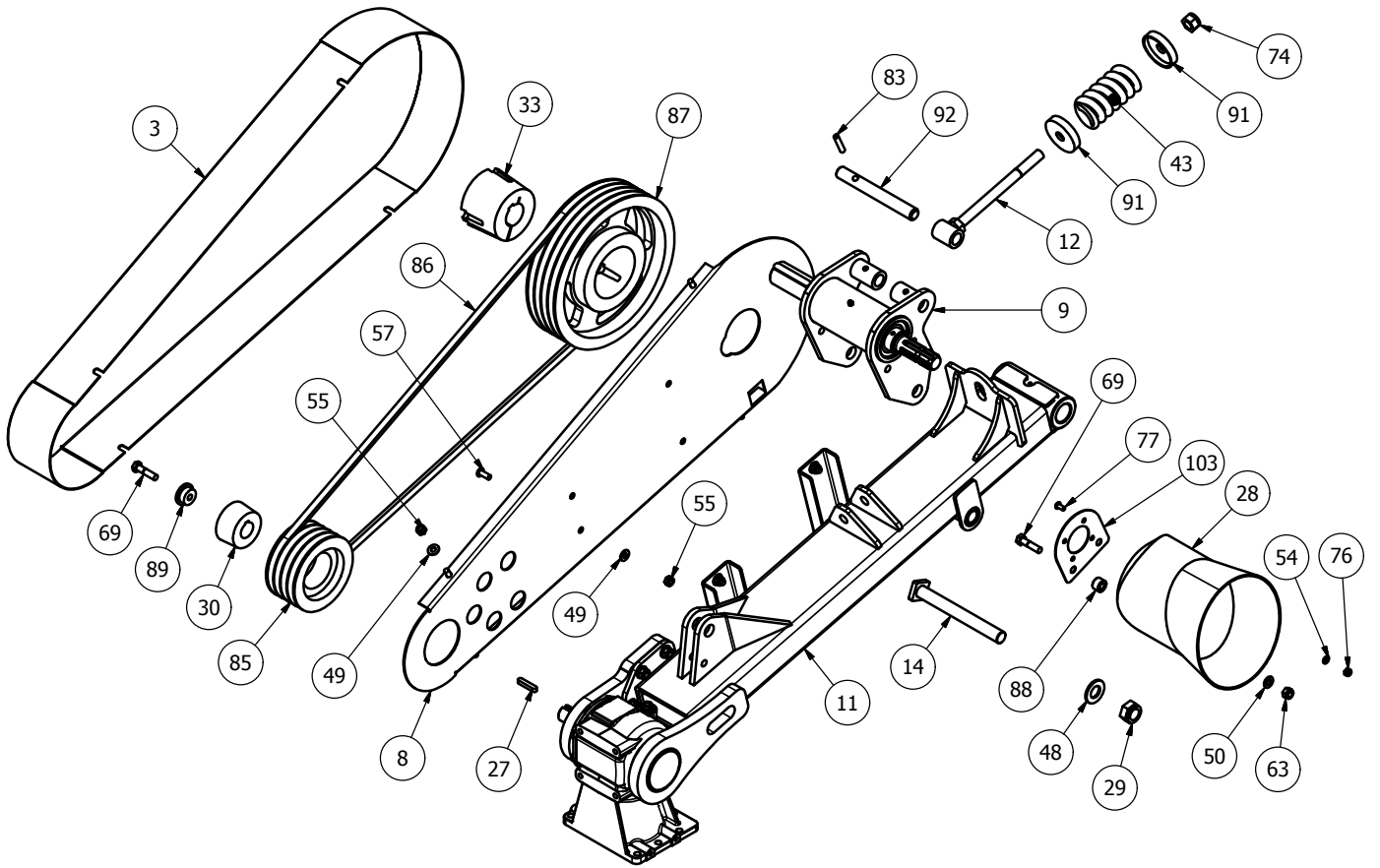
## MJ50 - General Overview



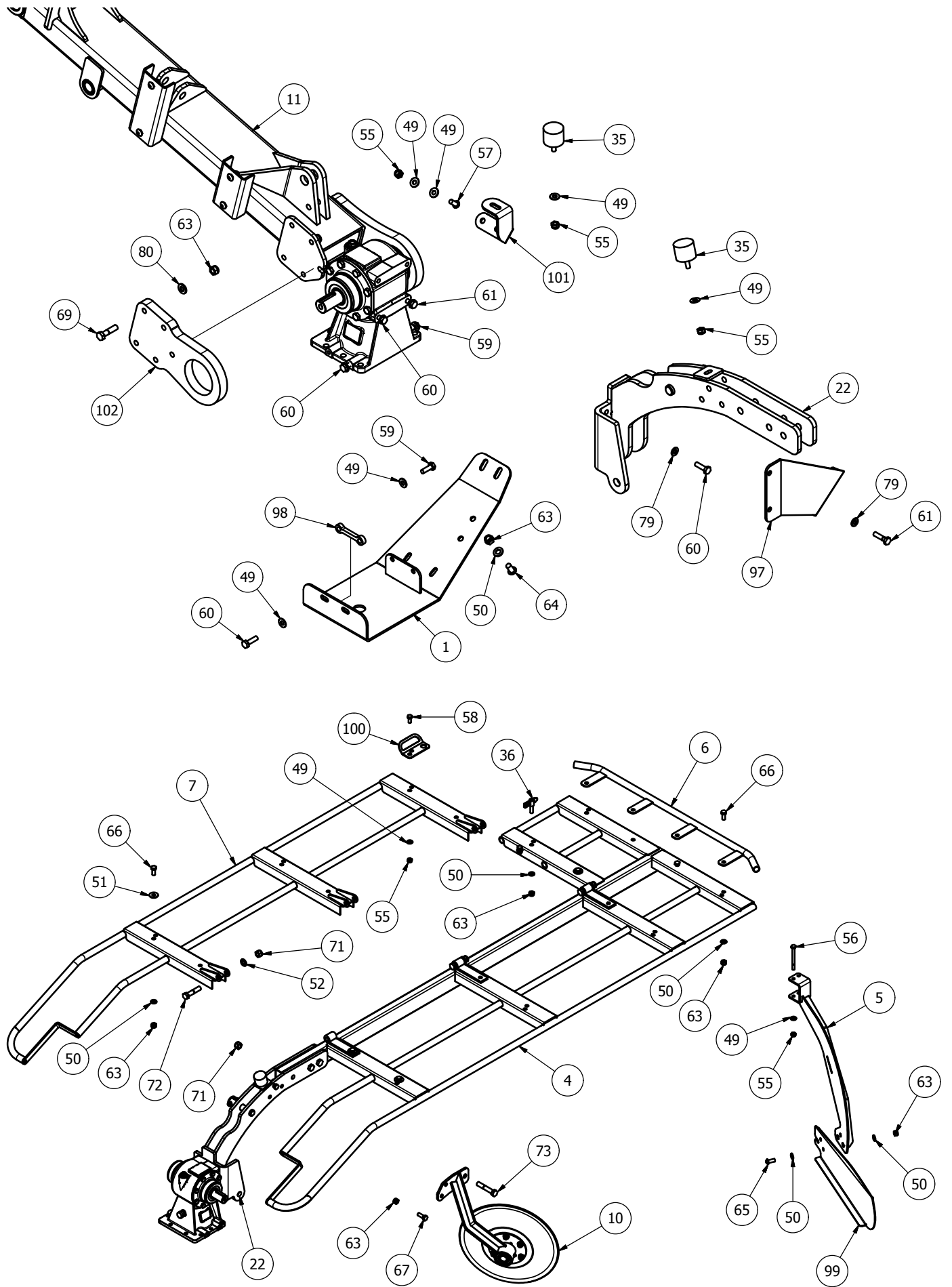
## MJ50 - Headstock



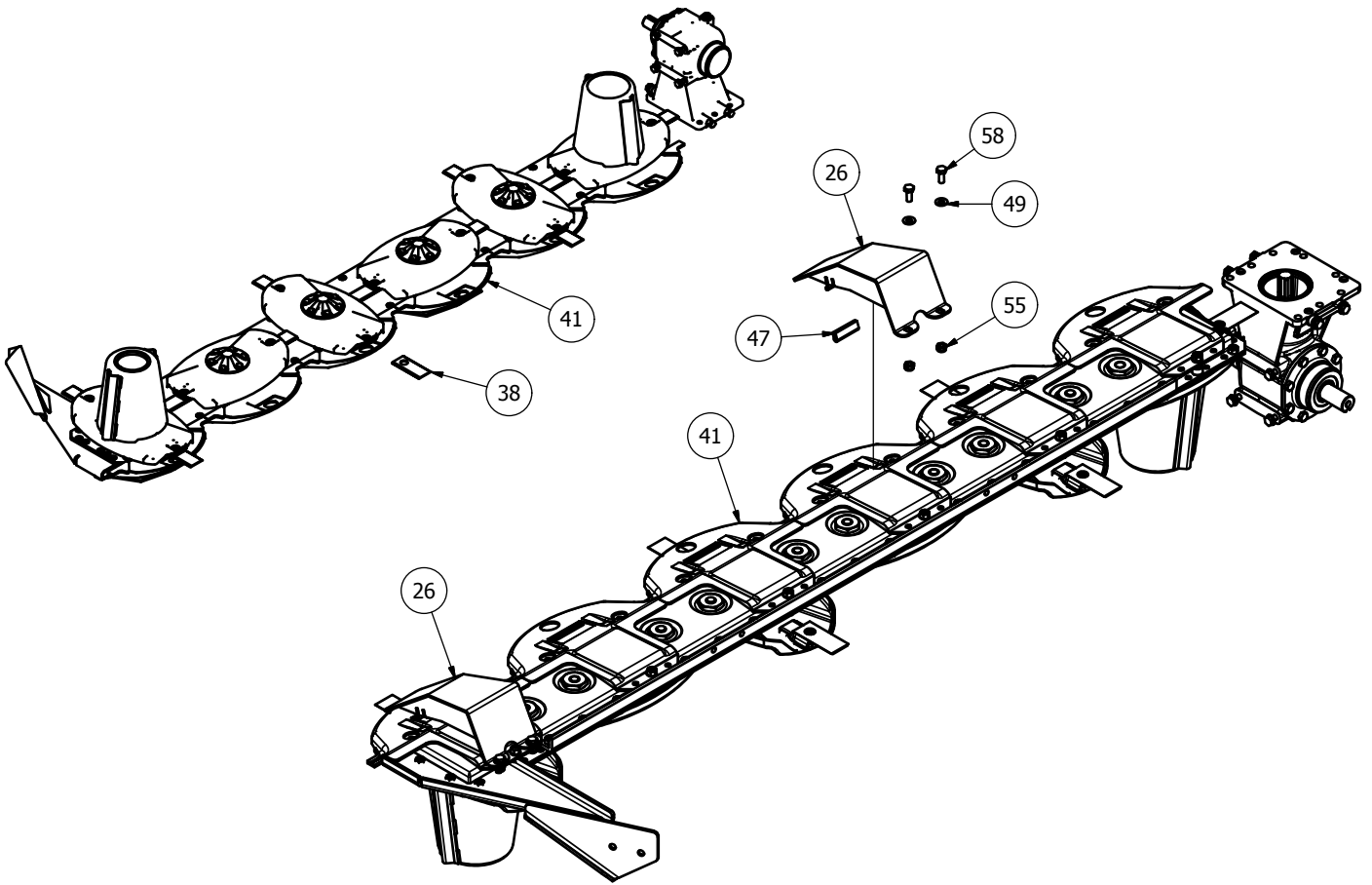
# MJ50 - Belt Drive and Linkage



# MJ50 - Cover Connection and Cover Frame



## MJ50 - Cutting Bed and Topping Skid



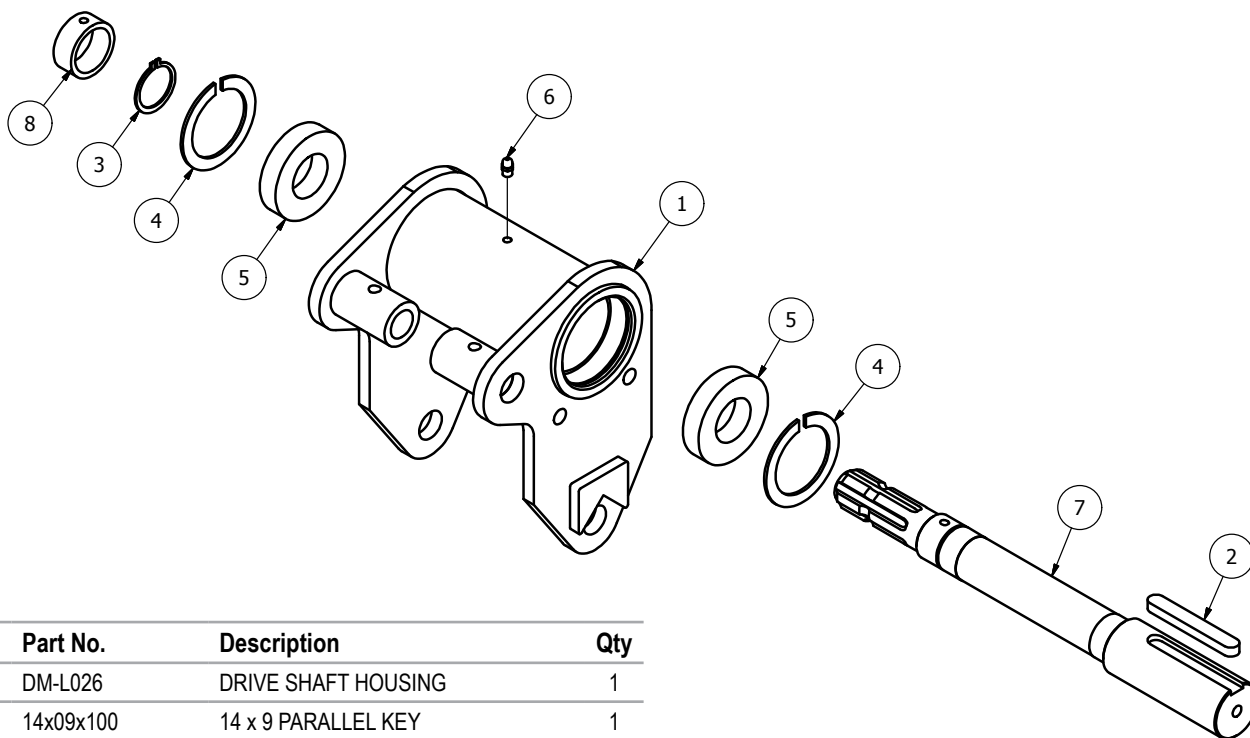
### MJ50-240/270/300 - Parts List

Item	Part No.	Description	Qty
1	DM-B003	INNER FLOAT SKID	1
2	DM-BA-ASM	BREAKAWAY ASM	1
3	DM-CVR004	PULLEY COVER OUTER	1
4	DM-CVR006	BED GUARD (FIXED)	1
5	DM-CVR012	BED SUPPORT BRACKET	1
6	DM-CVR024	END BULLBAR	1
7	DM-CVR026	BED GUARD (HINGED)	1
8	DM-CVR038	PULLEY COVER INNER	1
9	DM-DS003	DRIVE SHAFT ASSY	1
10	DM-GW001	GRASS WHEEL	1
11	DM-HS020	MAIN PIVOT ARM	1
12	DM-HS037	BELT TENSIONER	1
13	DM-HS049	MAIN PIVOT PIN	1
14	DM-HS067	TENSIONER PIVOT PIN	1
15	DM-HS079	FLOAT PIN	2
16	DM-HS083	PARK STAND	1
17	DM-HSGA	A' FRAME	1
18	DM-HSWA	CLEVIS LINKAGE	1
19	DM-L006	TRANSPORT LOCK PIN	1
20	DM-L009	SLIDING TIE LINK	1
21	DM-L020	RAM FLOAT LINK	1
22	DM-L023	BED COVER BRACKET	1
23	DM-L030	TIE BAR UPPER	1
24	DM-L032	FLOAT SPRING TENSIONER	1
25	DM-TL-01	TRANSPORT LOCK	1
26	DM-TS-GA	TOPPING SKIDS	2
27	10x08x50	10x8x50mm PARALLEL KEY	1
28	190.000.545	PTO GUARD (EXTENDED OVAL)	1
29	1UNF	1" FINE NYLOC (1/2 NUT)	2
30	2517-35	2517 35mm BORE	1
31	272	SHAFT LOCK PIN DIA 11	1
32	2882	DIA 30 EXT CIRCLIP	1
33	3535-50	TAPER LOCK DIA 50 (14x9)	1
34	3546	LINCH PIN DIA 9.5	7
35	53005802	DIA 50x40xM10 BUFFER	2
36	653	DROPLOCK - SCREW TYPE	1
37	74	CAT 1 PIN DIA 19x102mm	2
38	DMB-MJ50	Blade	12
39	81	CAT 2 PIN DIA 25.4x110mm	1
40	857	GREASE NIPPLE M8x45x1.25P	1
41	9-506-212-20	COMER 8FT BED	1
42	DM-CVR025	DISC MOWER TARP	1
43	DM-HS070	PULLEY SPRING	1
44	DM-L011	FLOAT SPRING	1
45	DM-RAM-GA	DISC MOWER RAM	1
46	DM-TL-SPRG	TRANSPORT LOCK SPRING	1
47	DM-TS-06	ANTI VIBRATION RUBBER	2
48	FW1	DIA 1" FLAT WASHER	2
49	FWM10	M10 FLAT WASHER	26

## MJ50-240/270/300 - Parts List (continued)

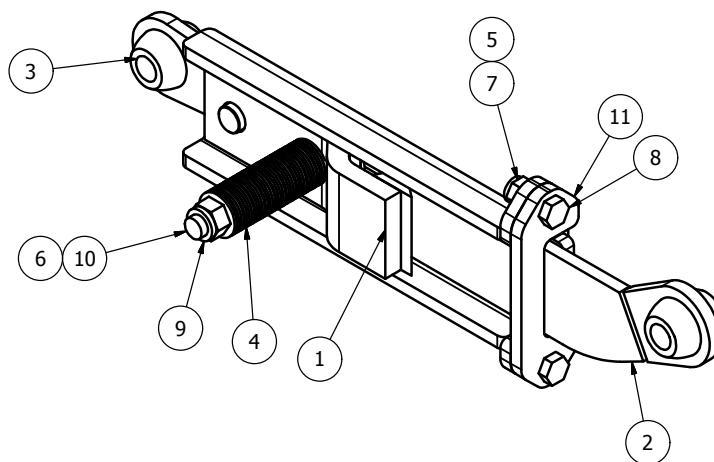
50	FWM12	M12 FLAT WASHER	23	80	NL12SP	M12 SP NORDLOCK	5
51	FWM12L	M12 FLAT WASHER (LARGE)	6	81	S112	CAT 2 PIN DIA 28.5x159mm	2
52	FWM16	M16 FLAT WASHER	7	82	S1207	ROLL PIN DIA 8x50	2
53	FWM20	M20 FLAT WASHER	4	83	S1233	ROLL PIN DIA10x50	1
54	FWM8	M8 FLAT WASHER	4	84	S1234	ROLL PIN DIA 10x60	3
55	M10	M10 NYLOC NUT	23	85	SPB160x4-2517	DIA 160x4 VEE PULLEY	1
56	M10x110BZP	M10x110 BOLT	2	86	SPB2580	SPB BELT 2580	4
57	M10x25SKBH	M10x25 SOCKET BUTTON HEAD 10.9	6	87	SPB335x4-3535	DIA 335x4 VEE PULLEY	1
58	M10x25SZP	M10x25 SET BOLT	8	88	12T-BBS	BLADE BACK SPACER	2
59	M10x30SZP	M10x30 SET BOLT	2	89	DM-DS005	GBOX SHAFT CAP	1
60	M10x35SZP	M10x35 SET BOLT	4	90	DM-HS031	FLOAT BUSH	2
61	M10x40BZP	M10x40 BOLT	2	91	DM-HS039	SPRING LOCATOR	2
62	M10x60BZP	M10x60 BOLT	1	92	DM-HS040	PIN BELT TENSIONER	1
63	M12	M12 NYLOC NUT	27	93	DM-L024	LOWER MAIN PIN	1
64	M12x25SKBH	M12x25 SOCKET BUTTON HEAD 10.9	2	94	DM-L038	RAM / TIE BAR PIN	1
65	M12x35BZP	M12x35 SET BOLT	3	95	DM-L044	ADJUSTER NUT	1
66	M12x40SZP	M12x40 SET BOLT	10	96	BLD-25025H-WSR	HEAVY BLADE WASHER	1
67	M12x35BZP	M12x35 BOLT	2	97	DM-B006	INNER SKID SUPPORT	1
68	M12x40BZP	M12x40 BOLT	1	98	DM-B007	GEARBOX SKID SPACER	1
69	M12x50BZP	M12x50 BOLT	8	99	DM-CVR015	DIVERTER	1
70	M12x70BZP	M12x70 BOLT	1	100	DM-CVR032	HINGE HANDLE	1
71	M16	M16 NYLOC NUT	8	101	DM-CVR033	GUARD BUFFER MOUNT	1
72	M16x75BZP	M16x75 BOLT	5	102	DM-HS027	MAIN BEARING PLATE	1
73	M16x90BZP	M16x90 BOLT	3	103	DM-HS057	PTO COVER MOUNT	1
74	M20	M20 NYLOC NUT	1	104	DM-HS063	PTO HANGER	1
75	M20HEXT	M20 THIN NUT	1	105	DM-HS078	PIN END	2
76	M8	M8 NYLOC NUT	6	106	DM-L007	PIN PLATE	3
77	M8x16SKBH	M8x16 SOCKET BUTTON HEAD 10.9	4	107	DM-L008	PIN SPACER	3
78	M8x20BZP	M8x20 BOLT	2	108	DM-L031	TRANSPORT LOCK TAB	1
79	NL10SP	M10 SP NORDLOCK	4	109	TA-HCM11	CABLE MOUNT	1

## MJ50 - Drive Shaft Bearing Housing



Item	Part No.	Description	Qty
1	DM-L026	DRIVE SHAFT HOUSING	1
2	14x09x100	14 x 9 PARALLEL KEY	1
3	2888	DIA 40 EXT CIRCLIP	1
4	55118	DIA 80 INT CIRCLIP	2
5	6208RS	80x40x18 DEEP GROOVE	2
6	851	GREASE NIPPLE M8x1.25 STR	1
7	DM-DS001	PTO INPUT SHAFT	1
8	DM-DS002	DRIVE SHAFT COLLAR	1

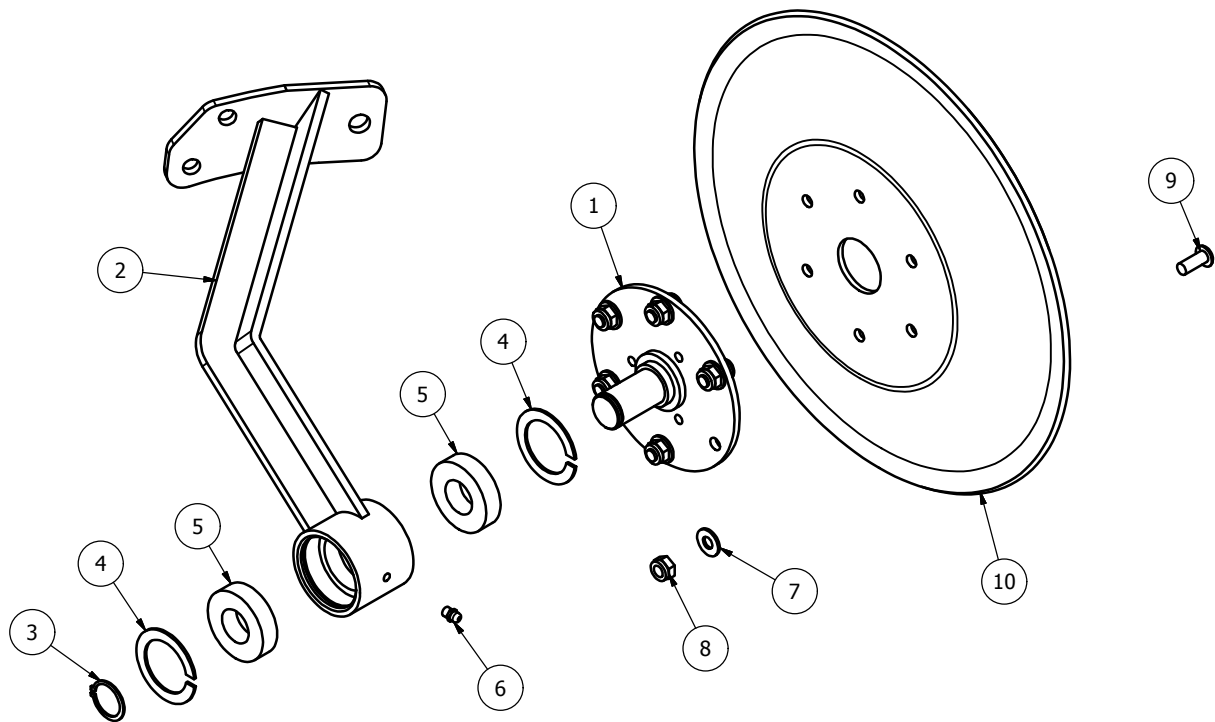
## MJ50 - Breakaway



Item	Part No.	Description	Qty
1	8SM4-22	BREAKAWAY CLASP	1
2	DM-BA-05	INNER BREAKAWAY	1
3	DM-BA-06	BREAKAWAY ARM	1
4	DSW34	DISC SPRING 34x16.5 x2	36
5	FWM12	M12 FLAT WASHER	2
6	FWM16L	M16 FLAT WASHER (LARGE)	1
7	M12	M12 NYLOC NUT	2
8	M12x35BZP	M12x35 BOLT	2
9	M16	M16 NYLOC NUT	1
10	M16x140BZP	M16x140 BOLT	1
11	DM-BA-04	BREAKAWAY END	1

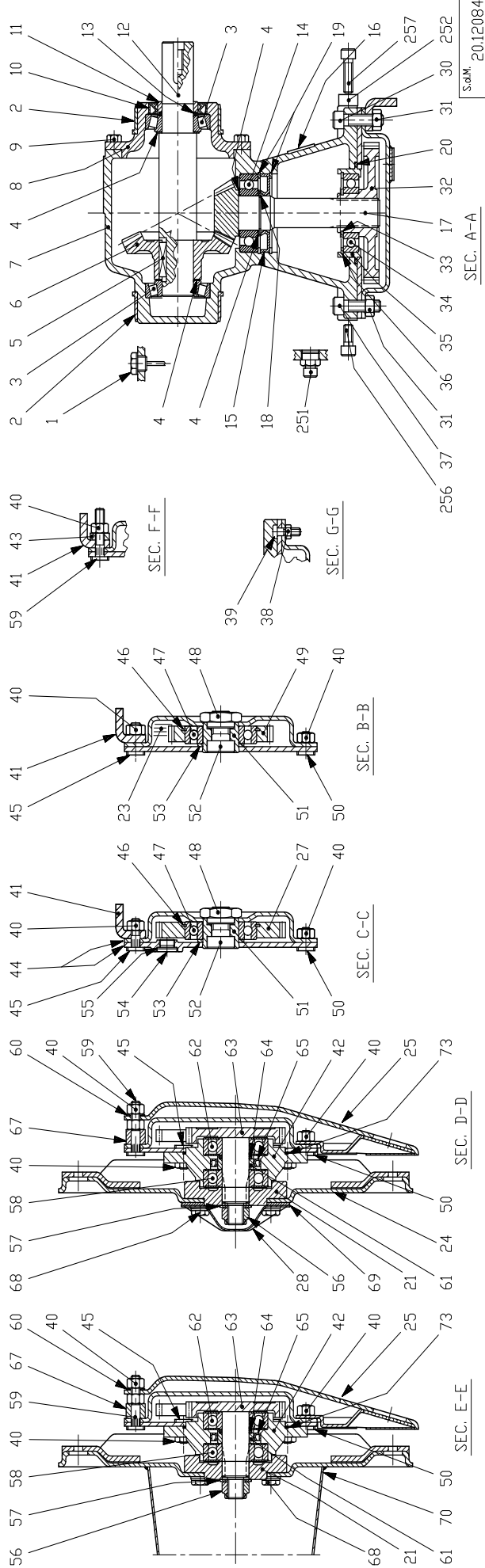
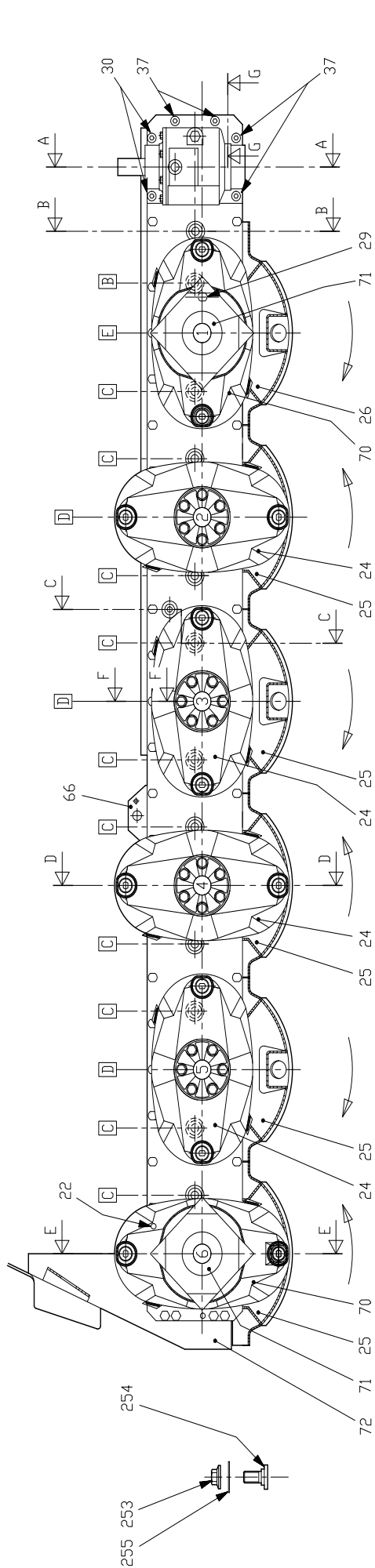


## MJ50 - Grass Wheel



Item	Part No.	Description	Qty
1	DM-GW002	GRASS WHEEL AXLE	1
2	DM-GW003	GRASS WHEEL MOUNT	1
3	2882	DIA 30 EXT CIRCLIP	1
4	55112	DIA 62 INT CIRCLIP	2
5	6206RS	62x30x16 DEEP GROOVE	2
6	851	GREASE NIPPLE M8x1.25 STR	1
7	FWM10	M10 FLAT WASHER	6
8	M10	M10 NYLOC NUT	6
9	M10x25SKBH	M10x25 SOCKET BUTTON HEAD 10.9	6
10	DM-GW004	SAUCER	1

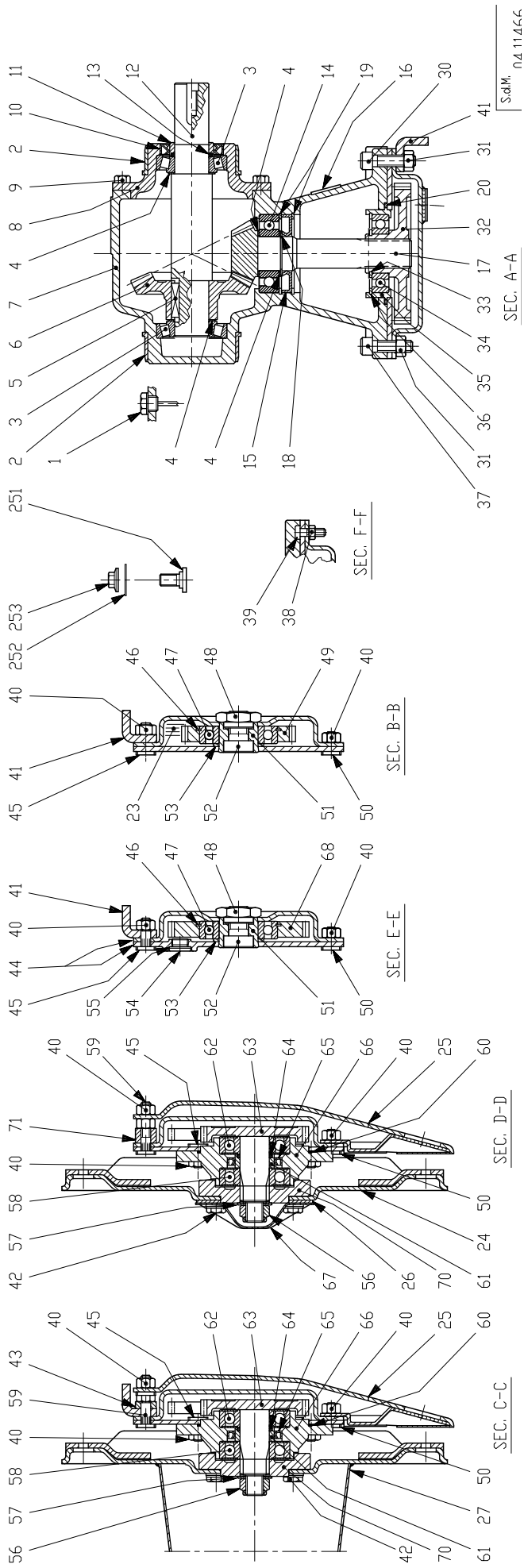
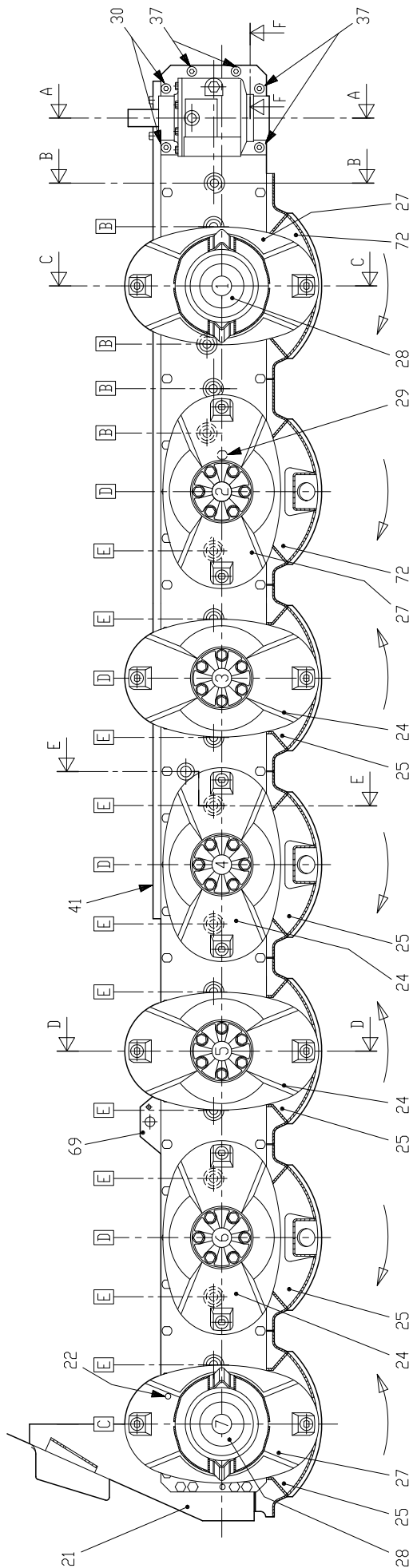
Cutting Bed 6 disc - 9.506.212.20



## Cutting Bed 6 disc - 9.506.212.20

Item	Part No.	Description	Qty				
1	0.142.7101.00	PLUG 3/8"GAS	1	41	0.406.7101.00	BACK REINFORCEMENT	1
2	0.142.7103.00	BUSH	2	42	0.505.1302.00	MOUNTING	6
3	8.0.9.00026	BEARING 30207	2	43	0.404.7136.00	SPACER	3
4	0.259.7500.00	SHIM 35.3x48.0	4	44	2.506.0301.00	CUTTERBED+COVER	1
5	8.4.1.01125	PARALLEL KEY B 10X8X35	1	45	0.404.7101.00	SCREW M10x30DCRT320	62
6	0.142.5001.00	CROWN WHEEL Z33 M3.75	1	46	0.505.7101.00	SNAP RING 80	12
7	0.142.0301.00	CASING	1	47	8.0.1.01918	BEARING 6208 N/C3	12
8	0.142.1301.00	COVER	1	48	0.465.7050.00	NUT	12
9	8.1.1.01540	BOLT M10x22 8.8 DCRT	8	49	0.505.6001.00	GEAR Z36 M3	2
10	8.7.1.00769	DOUBLE LIP SEAL 45X65X10	1	50	0.404.7112.00	SCREW M10x19 DCRT320	28
11	0.142.7100.00	BUSH	1	51	0.465.7049.00	PIN	12
12	0.142.2001.00	SHAFT	1	52	0.404.7107.00	BOLT M20x30 DCRT320	12
13	8.7.6.00954	O-RING 39.83x34.59X2.62	1	53	0.404.7105.00	SPACER 40.3x51.5x3	12
14	8.0.1.00644	BEARING 6307	1	54	0.404.7131.00	PLUG 3/8"GAS	2
15	8.7.3.00081	OIL SEAL 35X80X10	1	55	8.3.0.01353	BOLT WASHER 17x22x1.5	2
16	0.259.7111.00	PLATE	1	56	8.2.6.00740	LOCKNUT 20X1,5H17,3	6
17	0.142.6000.00	PINION SHAFT Z16 M3.75	1	57	8.5.5.01425	BELLEVILLE SPRING 0.4X40X2.25	6
18	8.5.1.00005	SNAP RING 35 UNI7435	1	58	8.0.1.02267	BEARING	6
19	8.5.2.00030	SNAP RING 80 UNI7437	2	59	0.404.7102.00	SCREW M10x52 DCRT320	6
20	8.7.6.01188	O-RING OR-4375	1	60	0.404.7140.00	BELLEVILLE SPRING 20X10,2X1,1	6
21	0.522.7003.00	FLANGE	6	61	0.505.7100.00	BUSH	6
22	8.4.5.01205	SPRING PIN 10X12 D1481	2	62	8.0.1.02279	BEARING 6306 2Z/C3 KBC	6
23	8.8.6.00435	OIL SHELL OMALA S2G 320	3,06	63	0.505.5000.00	GEAR Z34 M3	6
24	2.420.7070.00	REINFORCED DISC	4	64	8.7.6.01244	O-RING OR-3112	6
25	2.520.1714.00	SLIDING SHOE 380	5	65	8.7.3.00044	OIL SEAL 40X56X8	6
26	2.520.1716.00	SLIDING SHOE 420	1	66	0.404.7118.00	MOUNTING	1
27	0.505.6002.00	GEAR Z45 M3	10	67	0.404.7137.00	SPACER	3
28	0.420.7046.00	CAP	4	68	0.420.7101.00	BOLT M10x20	36
29	0.404.7132.00	SCREW M10x30 DCRT	1	69	0.465.7005.00	SPACER	4
30	8.1.2.01529	BOLT M12x45 12.9 DCRT320	3	70	2.420.7071.00	CONVEYOR	2
31	8.2.1.01533	HEX. NUT M12 10 DCRT320	8	71	0.404.7135.00	SPACER	2
32	0.505.6000.00	GEAR Z45 M3	1	72	2.404.1339.00	MOUNTING	1
33	8.5.1.00680	SNAP RING 40 UNI7436	1	73	8.7.6.02254	O-RING OR-3425	6
34	8.0.1.01184	BEARING 6208/C3	1	251	8.6.7.00161	BREATHER PLUG 3/8"GAS	1
35	0.404.7108.00	BUSH	1	252	0.404.7113.00	SPACER	2
36	8.5.2.00030	SNAP RING 80 UNI7437	1	253	0.404.7139.00	NUT M12 DCRT320	12
37	8.1.2.01530	BOLT M12x40 12.9 DCRT320	5	254	0.404.7152.00	SCREW	12
38	8.2.1.00985	HEX. NUT M8 ZINC. 8	4	255	1.404.7109.00	WASHER DCRT320	12
39	8.1.2.01527	BOLT M8x25 8.8 DCRT320	4	256	8.1.2.01531	BOLT M10x22 12.9 DCRT320	2
40	8.2.1.01528	HEX. NUT M10 DCRT320	103	257	8.1.2.01532	BOLT M10x35 12.9 DCRT320	2

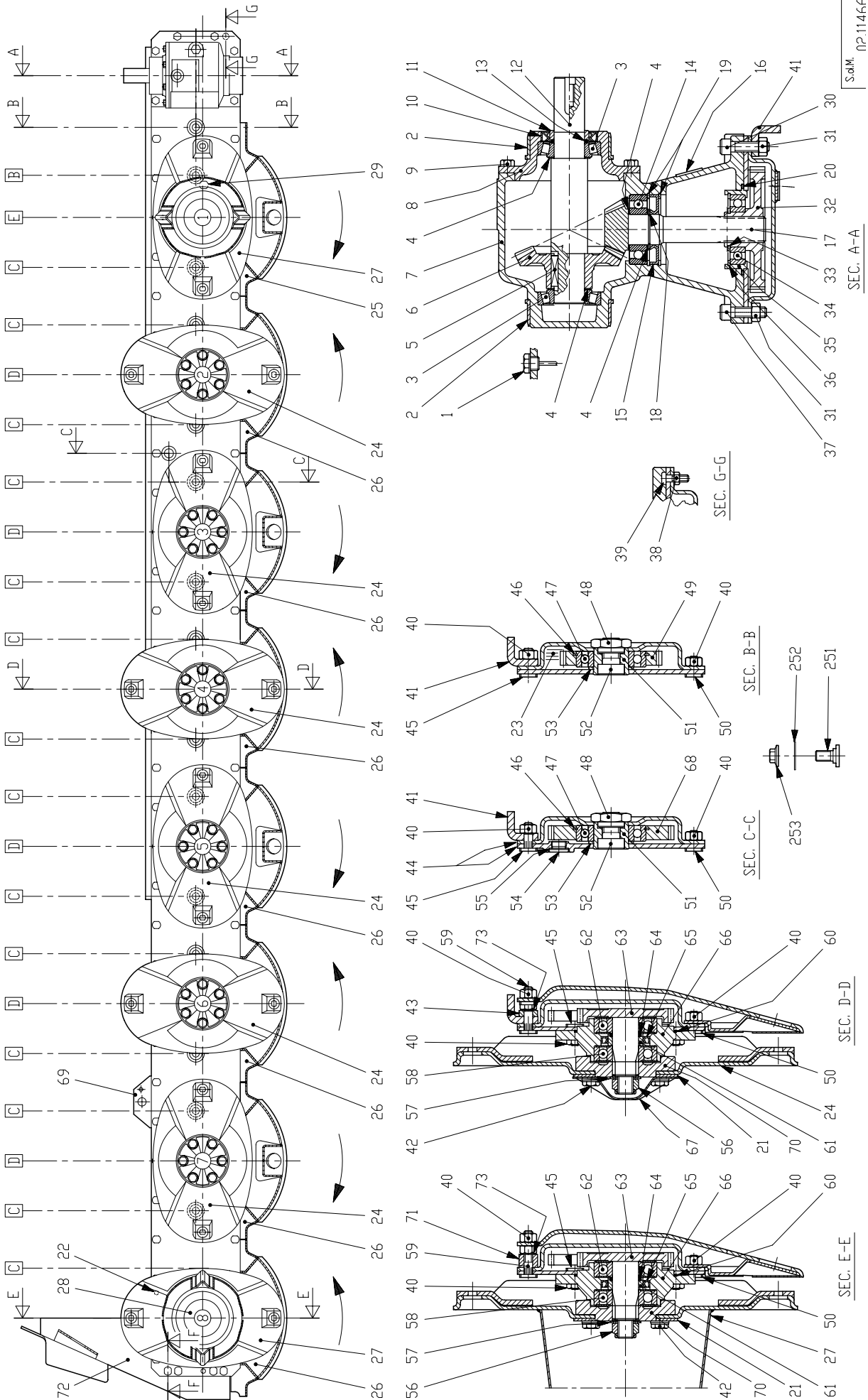
# Cutting Bed 7 disc - 9.507.207.00



## Cutting Bed 7 disc - 9.507.207.00

Item	Part No.	Description	Qty				
1	0.142.7101.00	PLUG 3/8"GAS	1	38	8.2.1.00985	HEX. NUT M8 ZINC. 8	4
2	0.142.7103.00	BUSH	2	39	8.1.2.01527	BOLT 8.8 DCRT320	4
3	8.0.9.00026	BEARING 30207	2	40	8.2.1.01528	HEX. NUT M10 10 DCRT320	119
4	0.259.7500.00	SHIM 48.0	4	41	0.407.7102.00	BACK REINFORCEMENT	1
5	8.4.1.01125	PARALLEL KEY B 10X8X35	1	42	0.420.7101.00	BOLT M10x20	42
6	0.142.5001.00	CROWN WHEEL Z33 M3.75	1	43	0.404.7136.00	SPACER	4
7	0.142.0301.00	CASING	1	44	2.507.0301.00	CUTTERBED+COVER	1
8	0.142.1301.00	COVER	1	45	0.404.7101.00	SCREW M10X30DCRT320	71
9	8.1.1.01540	BOLT M10x22 8.8 DCRT320	8	46	0.505.7101.00	SNAP RING 80	15
10	8.7.1.00769	DOUBLE LIP SEAL 45X65 X10	1	47	8.0.1.01918	BEARING 6208 N/C3	15
11	0.142.7100.00	BUSH	1	48	0.465.7050.00	NUT	15
12	0.142.2001.00	SHAFT	1	49	0.505.6001.00	GEAR Z36 M3	5
13	8.7.6.00954	O-RING (39.83X34.59X2.62)	1	50	0.404.7112.00	SCREW M10X19DCRT320	31
14	8.0.1.00644	BEARING 6307	1	51	0.465.7049.00	PIN	15
15	8.7.3.00081	OIL SEAL 35X80X10	1	52	0.404.7107.00	BOLT M20X30DCRT320	15
16	0.259.7111.00	PLATE	1	53	0.404.7105.00	SPACER	15
17	0.142.6000.00	PINION SHAFT Z16 M3.75	1	54	0.404.7131.00	PLUG 3/8"GAS	2
18	8.5.1.00005	SNAP RING 35 UNI7435	1	55	8.3.0.01353	BOLT WASHER 17X22X1.5	2
19	8.5.2.00030	SNAP RING 80 UNI7437	2	56	8.2.6.00740	LOCKNUT 20X1,5H17,3	7
20	8.7.6.01188	O-RING OR-4375	1	57	8.5.5.01425	BELLEVILLE SPRING 0.4X40X2.25	7
21	2.404.1334.00	MOUNTING	1	58	8.0.1.02267	BEARING 6306 2RS/C3 KBC	7
22	8.4.5.01205	SPRING PIN 10X12 D1481	2	59	0.404.7102.00	SCREW M10X52DCRT320	7
23	8.8.6.00435	OIL	3,51	60	8.7.6.02254	O-RING OR-3425	7
24	2.404.7037.00	REINFORCED DISC	5	61	0.505.7100.00	BUSH	7
25	2.520.1714.00	MOUNTING 380	6	62	8.0.1.02279	BEARING 6306 2Z/C3 KBC	7
26	0.465.7005.00	SPACER	5	63	0.505.5000.00	GEAR Z34 M3	7
27	2.404.7046.00	CONVEYOR	2	64	8.7.6.01244	O-RING OR-3112	7
28	0.404.7135.00	CAP	2	65	8.7.3.00044	OIL SEAL 40X56X8	7
29	0.404.7132.00	SCREW DCRT320	3	66	0.505.1302.00	MOUNTING	7
30	8.1.2.01529	BOLT M12x45 12.9 DCRT320	3	67	0.420.7046.00	CAP	5
31	8.2.1.01533	HEX. NUT M12 10 DCRT320	8	68	0.505.6002.00	GEAR Z45 M3	10
32	0.505.6000.00	GEAR Z45 M3	1	69	0.404.7118.00	MOUNTING	1
33	8.5.1.00680	SNAP RING 40 UNI7436	1	70	0.522.7003.00	FLANGE	7
34	8.0.1.01184	BEARING 6208/C3	1	71	0.404.7137.00	SPACER	3
35	0.404.7108.00	BUSH	1	72	2.520.1716.00	MOUNTING 420	2
36	8.5.2.00030	SNAP RING 80 UNI7437	1	251	0.404.7152.00	SCREW	14
37	8.1.2.01530	BOLT M12x40 12.9 DCRT320	5	252	1.404.7109.00	WASHER DCRT320	14
				253	0.404.7139.00	NUT M12 DCRT320	14

# Cutting Bed 8 disc - 9.508.207.00



Sol.M. №2 11466

SEC. A-A

SEC. G-G

SEC. B-B

SEC. C-C

SEC. D-D

SEC. E-E



## Cutting Bed 8 disc - 9.508.207.00

Item	Part No.	Description	Qty
1	0.142.7101.00	PLUG 3/8"GAS	1
2	0.142.7103.00	BUSH	2
3	8.0.9.00026	BEARING 30207	2
4	0.259.7500.00	SHIM 35.3x48.0	4
5	8.4.1.01125	PARALLEL KEY B 10X8X35	1
6	0.142.5001.00	CROWN WHEEL Z33 M3.75	1
7	0.142.0301.00	CASING	1
8	0.142.1301.00	COVER	1
9	8.1.1.01540	BOLT M10x22 8.8 DCRT	8
10	8.7.1.00769	DOUBLE LIP SEAL 45X65 X10	1
11	0.142.7100.00	BUSH	1
12	0.142.2001.00	SHAFT	1
13	8.7.6.00954	O-RING 39.83x34.59X2.62	1
14	8.0.1.00644	BEARING 6307	1
15	8.7.3.00081	OIL SEAL 35X80X10	1
16	0.259.7111.00	PLATE	1
17	0.142.6000.00	PINION SHAFT Z16 M3.75	1
18	8.5.1.00005	SNAP RING 35 UNI7435	1
19	8.5.2.00030	SNAP RING 80 UNI7437	2
20	8.7.6.01188	O-RING OR-4375	1
21	0.465.7005.00	SPACER	8
22	8.4.5.01205	SPRING PIN 10X12 D1481	2
23	8.8.6.00435	OIL	4,05
24	2.404.7037.00	REINFORCED DISC	6
25	2.520.1716.00	MOUNTING 420	1
26	2.520.1714.00	MOUNTING 380	7
27	2.404.7046.00	CONVEYOR	2
28	0.404.7135.00	CAP	2
29	0.404.7132.00	SCREW M10x30 DCRT	1
30	8.1.2.01529	BOLT M12x45 12.9 DCRT320	3
31	8.2.1.01533	HEX. NUT M12 10 DCRT320	8
32	0.505.6000.00	GEAR Z45 M3	1
33	8.5.1.00680	SNAP RING 40 UNI7436	1
34	8.0.1.01184	BEARING 6208/C3	1
35	0.404.7108.00	BUSH	1
36	8.5.2.00030	SNAP RING 80 UNI7437	1
37	8.1.2.01530	BOLT M12x40 12.9 DCRT320	5
38	8.2.1.00985	HEX. NUT M8 ZINC. 8	4
39	8.1.2.01527	BOLT M8x25 8.8 DCRT320	4
40	8.2.1.01528	HEX. NUT M10 DCRT320	135
41	0.408.7100.00	REINFORCEMENT	1
42	0.420.7101.00	BOLT M10x20	48
43	0.404.7136.00	SPACER 7 mm	5
44	2.508.0301.00	CUTTERBED+COVER	1
45	0.404.7101.00	SCREW M10x30DCRT320	84
46	0.505.7101.00	SNAP RING 80	16
47	8.0.1.01918	BEARING 6208 N/C3	16
48	0.465.7050.00	NUT	16
49	0.505.6001.00	GEAR Z36 M3	2
50	0.404.7112.00	SCREW M10x19 DCRT320	34
51	0.465.7049.00	PIN	16
52	0.404.7107.00	BOLT M20x30 DCRT320	16
53	0.404.7105.00	SPACER 40.3x51.5x3	16
54	0.404.7131.00	PLUG 3/8"GAS	2
55	8.3.0.01353	BOLT WASHER 17x22x1.5	2
56	8.2.6.00740	LOCKNUT 20X1,5H17,3	8
57	8.5.5.01425	BELLEVILLE SPRING 0.4X40X2.25	8
58	8.0.1.02267	BEARING 6306 2RS/C3 KBC	8
59	0.404.7102.00	SCREW M10x52 DCRT320	8
60	8.7.6.02254	O-RING OR-3425	8
61	0.505.7100.00	BUSH	8
62	8.0.1.02279	BEARING 6306 2Z/C3 KBC	8
63	0.505.5000.00	GEAR Z34 M3	8
64	8.7.6.01244	O-RING OR-3112	8
65	8.7.3.00044	OIL SEAL 40X56X8	8
66	0.505.1302.00	MOUNTING	8
67	0.420.7046.00	CAP	6
68	0.505.6002.00	GEAR Z45 M3	14
69	0.404.7118.00	MOUNTING	1
70	0.522.7003.00	FLANGE	8
71	0.404.7137.00	SPACER 15 mm	3
72	2.404.1334.00	MOUNTING	1
73	0.404.7140.00	BELLEVILLE SPRING 20X10,2X1,1	8
251	0.404.7152.00	SCREW	16
252	1.404.7109.00	WASHER DCRT320	16
253	0.404.7139.00	NUT M12 DCRT320	16



Warranty: This machine is guaranteed for 12 months. No warranty is given where the machine is being used as a hire machine. Warranty is against faulty workmanship or parts, with the exception of components not of MAJOR'S manufacture or design, i.e. hydraulic components, universally jointed shafts, chains and tyres, etc., which are subject to the original manufacturers conditions. To register your machine for warranty, please go to the support section of our website www.major-equipment.com and enter your details.

The screenshot shows the MAJOR website interface. At the top left is the MAJOR logo with the URL www.MAJOR-EQUIPMENT.COM. To the right, the text reads 'The Grass & Slurry Machinery Specialists' and 'Agricultural - Professional Groundscare - Industrial'. A navigation menu includes 'Home', 'Products', 'About Us', 'Gallery', 'Dealers', 'News', 'Support' (circled), and 'Contact Us'. Below the menu, it says 'You are in: English >> Support'. The main content area has a 'Support' heading and three sections: 'Product Registration' (with a circled link 'Please click here to register your machine...'), 'Product Support' (with a link 'Please click here to access operator manuals.'), and 'Dealer Support' (with a link 'Please click here for access to our dealer support area.'). A sidebar on the right contains a 'Support' menu with items like 'Product Registration', 'Operator Manuals & Spare Parts Books', 'Dealer Support', 'Support Contact', and 'FAQ'. Below this is a Facebook follow button and a 'Recent News' section with links to '3100LGP With Raingun', 'New Website Launch!', 'Major Heads For Oz', 'Visit Our Facebook Page', and '2012 Shows'. The footer contains contact information for the Head Office (Ireland), UK Office (Lancs), and Nederland (Germany).

**MAJOR**  
www.MAJOR-EQUIPMENT.COM

The Grass & Slurry Machinery Specialists  
Agricultural - Professional Groundscare - Industrial

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**Support**

**Product Registration**  
Please click here to register your machine. We are committed to providing you with excellent products and product support. Please register your machine to ensure you get the correct warranty cover and service bulletins.

**Product Support**  
Please click here to access operator manuals.

**Dealer Support**  
Please click here for access to our dealer support area.

**Support**

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