

800SM-HD, 900SM-HD 7FTGDX-HD, 9FTGDX-HD 909HD

Operator's Manual and Parts List





Read this instruction manual thoroughly before using your machine and follow all safety precautions.

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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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Introduction

Thank you

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

Safety Aspects

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. Only competent and skilled persons who have fully read and understood this operator's manual are allowed to operate this 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.

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. Should any questions arise regarding the information given in this booklet, please contact your local MAJOR dealer or MAJOR.

The operator is solely responsible for the safe use and maintenance of the machine. The machine must only be operated by a competent and skilled person. Setting up and adjustment must only be carried by the operator. Do not let a third party person to adjust or modify the machine in any way.

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. Major will not be held responsible for any loss or damage caused due to a misuse of the machine.

Register Your Product and Warranty Online

To register your product through the Internet, simply go to the Support section on 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. 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.

Tractor Requirements



Attaching the machine to the tractor will influence the stability and manoeuvrability of the tractor. Please consult your tractor manual for limitations on weight and towing ability of the tractor.

It is the operator's responsibility to ensure that the tractor is suitable for the machine. Always consult your tractor's manual for any further information required.

Recommended Horse Power requirements for the particular models are provided in the "Product Specification" section of this booklet. Using excessive power can affect the quality of cut and/or may damage the machine.

Tractors which are not suitable for the operation can sustain damage due to the weight and power requirements of the machine. Always observe the weight of machine provided in the "Product Specification" section of this booklet, compare this with the guidelines from the tractor manual and ensure that the tractor can lift the machine safely.

The machine is designed to be attached by means of a 2/3 point linkage connection or can be trailed (specific models). The position of the machine can be adjusted by manual or hydraulic top link.

Winged models require at least one hydraulic spool with 1/2" female quick release connection for a single acting ram/ rams.

Road light kit requires a 12V 7 pin socket.

Safety

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 .

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 (1000) RPM the value can reach 97dBA. Higher rate of PTO input will result 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

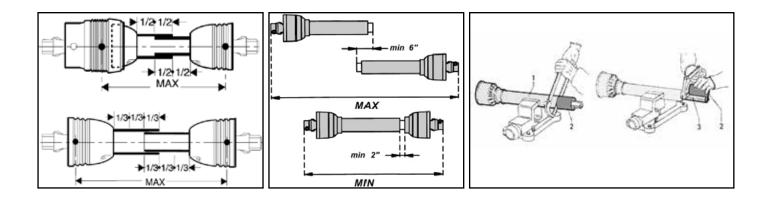
Ensure retaining chains are correctly anchored on all PTO shafts, preventing them from turning. Ensure drive line can turn easily within the shield. Keep spline grooves clean and greased so that PTO shaft can connect easily. Besides being described in this booklet, the method by which the PTO shaft is 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.



Driving Safely on Public Roads

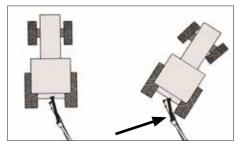
Check the local Highway Code regulations before driving the tractor on public highways with an implement attached. Check the reflectors, hazard flashers and/or projecting load indicators are installed when required and efficient. These indicators must be installed correctly and easily seen by the drivers 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 of the implement is limited to 25-30km/h depending on the model of the machine (observe safety labels on the machine).

Trailed Machines only *(if applicable)* The shaft must not reach the end of the tube or project from this. Ensure the PTO does not bottom when turning



General safety instructions

Precautions to be taken while working with the machine:

- 1. Do not operate the machine when you are tired or under the influence of alcohol or any other intoxicant;
- 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.

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 all gearboxes. Top up if required through the oil filler plug. The correct level is at the oil level plug.
- 2. Grease all lubrication points as outlined in the Maintenance section of this booklet.
- 3. Check parts for wear.
- 4. Check the blade mounting bolts are tight.
- 5. Ensure the gearbox shaft nuts are tight and retained in place by split pin.
- 6. Check tightness of all nuts, bolts and pins.
- 7. Ensure safety guards and flaps are in place at all times where fitted. If these become worn or missing, replace them immediately with new ones.
- 8. 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.

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:	MAJOR EQUIPMENT INTL LTD	CE
Serial No:	BALLYHAUNIS, CO MAYO, IRELAND TEL: +353 (0) 9496 30572 EMAIL: info@major-equipment.com	MAJOR 5-3
Date of Purchase:	MAJOR EQUIPMENT LTD (UK) MAJOR IND. ESTATE, HEYSHAM, LANCS, LAS 3JJ, UK	Senal Number/Senencemmer
Dealer Name:	TEL: +44 (0) 1524 850507 EMAIL: ukinfo@major-inquipment.com MAJOR EQUIPMENT INTL LTD	Model/Model
Dealer Telephone:	POSTOLIS 20, NL-7700 AA DEDEMSVAART, NEDERLAND TEL +31 (0 5359 19665 EMAIL euinforfimation-equipment.com	Year of manufacture/Biaujahr

Product Specifications

The machine is propelled by using a 6 spline 1-3/8" PTO shaft (provided with the machine).

Model	9FTGDX-HD	7FTGDX-HD	909 HD	800SM-HD	900SM-HD
Overall Width	2.74m (8' 9")	2.30m (7'8")	2.91m (9' 5")	4.4m (14' 4")	4.5m (14'7")
Cut Width	2.7m (9')	2.10m (7')	2.7m (9')	2.4m (8')	2.7m (9')
Transport Width	2.91m (9' 5")	2.30m (7'8")	2.91m (9' 5")	2.22m (7' 3")	2.22m (7' 3")
No. of Blades	8	8	8	8	8
No. of Rotors	2	2	2	2	2
Power (HP)	40-90	40-70	50-110	35-80	50-90
PTO (rpm)	540	540	1000	540	540
Blade Speed	111m/s	87m/s	111m/s	100m/s	111m/s
Cutting Height	50-250mm	50-250mm	50-250mm	50-250mm	50-250mm
Weight (kg)	490kg (570kg w wheels)	vith450kg (530kg w wheels)	ith 560kg (640kg with wheels)	550kg	640kg

			rtificate of conformity for machines
	Name of Address:	Manufacturer:	Major Equipment Ltd Coolnaha, Ballyhaunis, Co. Mayo, Rep of Ireland
	Tel. Fax	+3539496309 +353949630	
		decla	res in sole responsibility that the product:
		ption and functi	on: Rotary mower with vertical axes cutting heads which cuts bicked up.
Mode	I: GRASS	TOPPER	
Туре:			Serial number:
Techn	ical file co	mpiled by:	Alex Kolchanov (c/o Major Equipment Ltd)
• • • •	S.I. No. 2 Regulatio Health & EN ISO 1 EN 745 - EN ISO 1	99 of 2007, Safe ns 2007 (Ireland Safety at Work, 4121-1: 2007 'Sa Agricultural Mach	etc. Act 1974 (c.37) (UK). afety of machinery. Principles for risk assessment'. ninery - Rotary Mowers and Flail Mowers - Safety. machinery: Safety distances to prevent hazard zones
operat	• •	tly, complies with	Equipment Int. Ltd., that this machine when properly installed and all the essential Health & Safety requirements of all legislation
Signeo Date: Name Positio	14 : Jo	Allury J /11/2018 hn Murphy anaging Director	Place: Coolnaha, Ballyhaunis, Co. Mayo, Rep of Ireland

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.

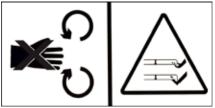


 Avoid unsafe operation or maintenance. Do not operate or work on this machine without reading and understanding the operator's manual. If manual is lost, contact your nearest dealer for a new manual.

manual.



To avoid injury, read the manual



Rotating blade hazard

ATTENTION!

Do not engage drive

while in transport

position

Do not engage drive while



PTO entanglement hazard - keep clear of PTO drives.





hazard





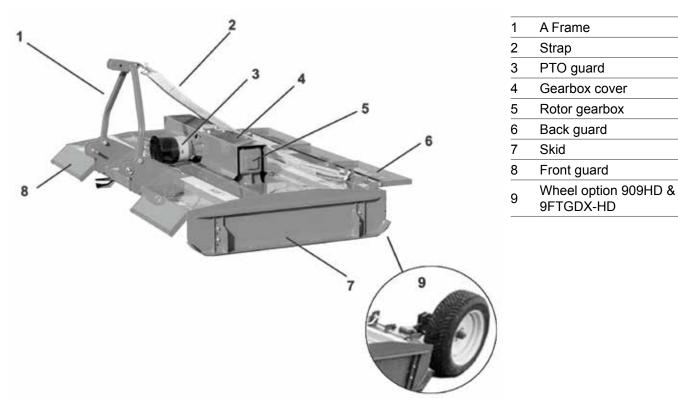
Check tightness of the transmission bolts



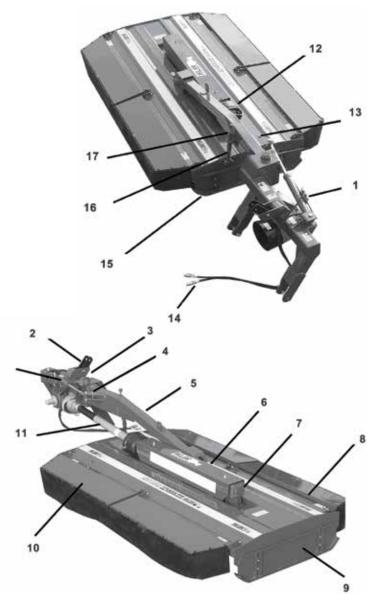


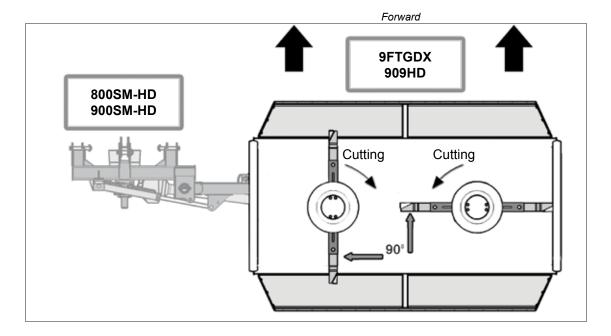
Maximum PTO input

Key to Main Parts



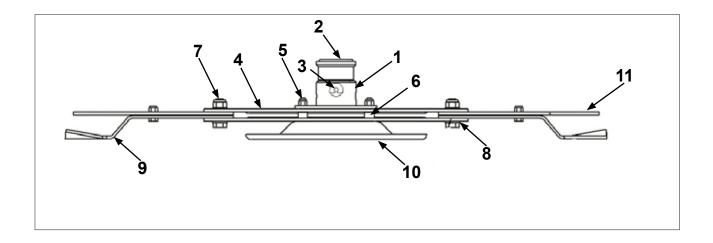
1	Hydraulic ram
2	Float
3	Headstock
4	Transport locking pin (in transport)
5	Carrying arm
6	Gearbox cover
7	Rotor gearbox
8	Front guard
9	Skid
10	Rear guard
11	Secondary shaft
12	PTO guard
13	Transport locking pin (when mowing)
14	Hydraulic hoses
15	Skid
16	Long damper spring
17	Short damper spring



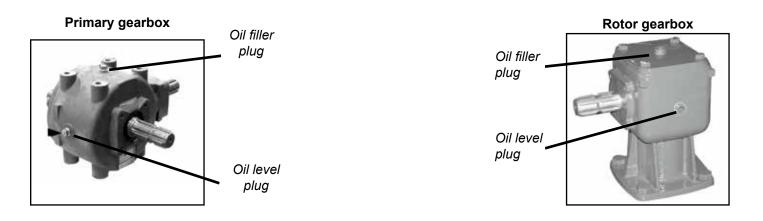


Blade system Full breakdown of the blade assembly is provided in the Spare Parts section of this booklet

1 Blade mount	7	Blade pivot bolt
2 Gearbox output shaft	8	Blade pivot bush
3 Gearbox split pin	9	Blade
4 Blade back	10	Undersole disk
5 Blade back bolt	11	Overlap Blade
6 Blade back spacer		



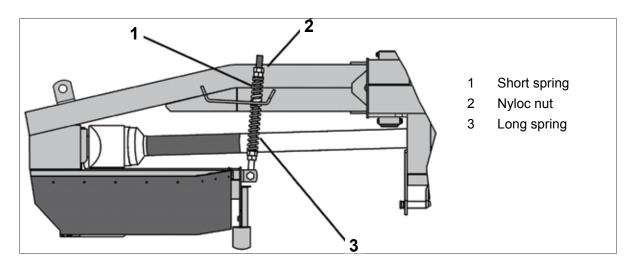
Drive-line gearboxes



Operating the Machine

Machine Set up

The Side Mount Topper is often supplied in kit form; please ensure that all components are fitted before using the machine. Ensure the damper system is correctly set up as shown below. Ensure primary PTO shaft is fitted correctly with the Shearbolt / Overrunning clutch fitted onto the primary gearbox of the machine and a standard yoke end on the tractor PTO drive.



Hydraulic Ram Set Up Instructions (Side Mounted toppers)

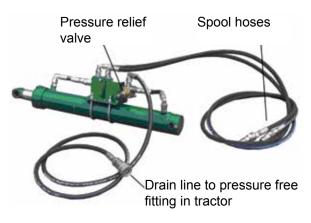
- 1. Fit hydraulic quick fits to Tractor Spool
- 2. Fit Drain Line to pressure free return on tractor

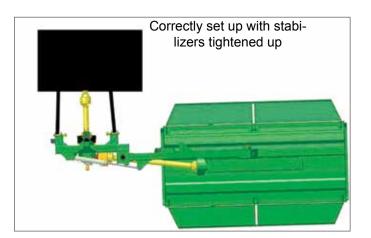
3. Lift machine & power hydraulics to move body into mowing position.

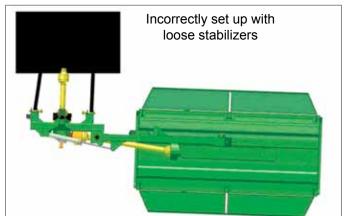
4. Place spool in neutral position.

5. Tighten lower link stabilizer bars to ensure machine is tight on linkage & ensure that linkage bars are positioned to have machine slightly forward when in mowing position.

 When mowing, the machine should be perpendicular or slightly forward to the direction of travel. If the machine is lagging behind the tractor then excessive pressure is being exerted on the valve & will cause the machine to creep back.







Mowing over rough ground can cause pressure on the relief valve with the consequence of the valve to operate. It is suggested to mow at lower speeds over these undulations

Attaching machine to the Tractor



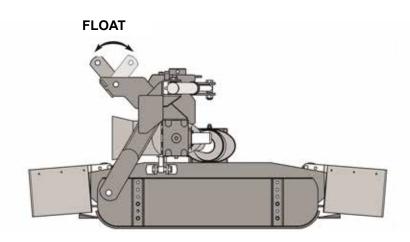
ALWAYS OPERATE ON LEVEL GROUND WHEN HITCHING/UNHITCHING THE IMPLEMENT. THIS WILL PREVENT DANGEROUS MOVEMENT. NEVER ALLOW ANYONE TO STAND BETWEEN THE TRACTOR AND THE MACHINE.

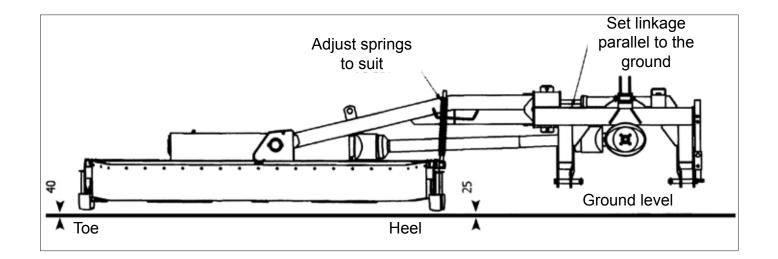
Three Point Linkage Models

- 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 and PTO shaft. Ensure that the locking pins are secure.
- 3. With the Machine lowered in its operating position, adjust the top link until the strap is slack, allowing the Machine to produce a uniform finish in varying ground conditions.
- 4. Check the PTO shaft for length as described previously. Connect the PTO shaft. Ensure PTO check chains are anchored to prevent PTO guarding from rotating.
- 5. Connect the hydraulic hoses to the appropriate connections (selected models only).

SIDE MOUNTED TOPPERS

- 1. Connect tractor to linkage
- 2. With linkage set parallel to the ground raise the topper such that the topper "heel" is approx. 25mm from the
- ground. Adjust the springs such that the "toe" is slightly higher at approx. 40mm from the ground.
- 3. Adjust the tractor linkage stay bars such that the topper runs parallel to the tractor.





Transport Position

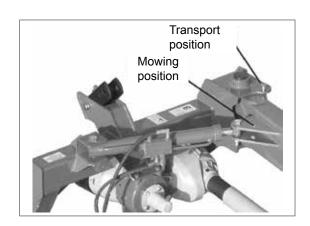


Before raising the machine wait until the transmission and the blades are completely still. During the transport of the machine it is recommended that the PTO shaft is disconnected.

- 1. Check 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.

Transport Postion - Side Mounted Topper

- 1. Check machine is hitched to the tractor as described. Ensure the tractor parking brake is applied
- 2. Lift the body clear from the ground with the tractor 3 point linkage
- 3. Transform the machine into transport position by hydraulic control.
- 4. Lock in position with the transport locking pin.

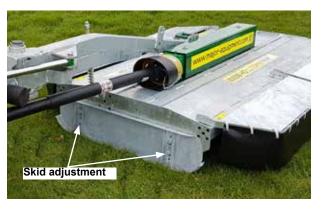


Adjusting the skids and cutting height

Adjust the skids by lifting the machine and removing the four skid retaining bolts & relocating the skid to the desired height.

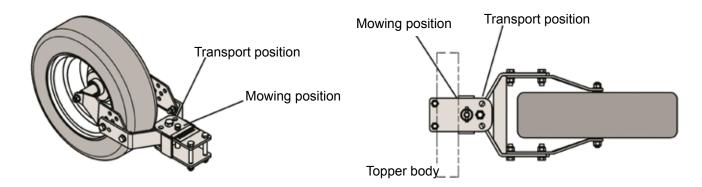


NOTE: During the adjustment the skid may become detached and must be supported adequately.



Wheel Assembly

The wheel assembly is not suitable for reversing. Place the pin in the appropriate location for either transport or mowing.



Hydraulic Breakaway Adjustment



The relief valve is set at the factory to 1800 PSI.

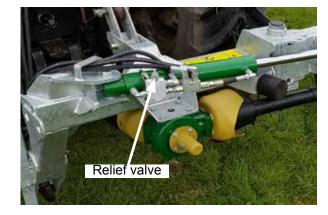
Ensure the Breakaway Return line is connected to the free flow return port on the tractor

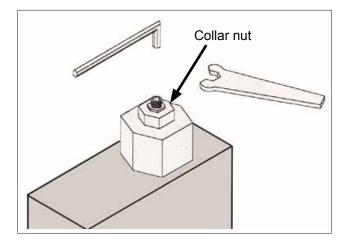
The relief valve is located as shown on the hydraulic ram. To adjust the breakaway (if required):

- 1. Anchor the position of the Allen Screw using the Allen key
- 2. Slacken off the Collar Nut
- 3. Wind in the Allen Screw to increase the resistance (i.e. prevent the body from slipping back).
- 4. Lock the Allen Screw in the new position with the Collar Nut



Only adjust 1/4 of a turn at a time and test. Over adjustment will prevent the breakaway and may cause damage to the machine and/or the tractor. Adjustments must be carried out by a skilled and competent person.





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. Always operate on level ground when connecting/disconnecting the implement. This will prevent dangerous movement.



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 & cannot be hit with debris expelled from the machine.
- 2. Check PTO shaft is fully engaged on tractor PTO splines.
- 3. Raise the machine by hydraulic control.
- 4. Start up the tractor PTO at a low RPM.
- 5. Build up to operating speed, select a suitable forward gear & proceed to cut grass.

Maintenance

In order to keep your Major machine in a good working order it is necessary to conduct maintenance on a regular basis. Only competent and skilled persons who have fully read and understood this operator's manual are allowed to carry out maintenance on this machine. It is important to replace worn parts immediately with genuine Major spare parts. These parts are manufactured to the same specification as the machine and will provide the best result. Genuine Major spares can be obtained from MAJOR or your local MAJOR dealer.

All maintenance checks and operations must be carried on a firm level ground. The machine must always be disconnected form the tractor before any cleaning, lubricating and servicing operations can be carried out. If works must be carried out under the machine, ensure that the props, jacks, stands, hoists or cranes are capable of supporting the machine securely.

If emergency operations are required whilst the machine is connected to the tractor, switch off the engine of the tractor, remove the key from the ignition, engage the parking brake and disengage the PTO. An example of such emergency situation is the complete blockage of the machine in the field. To clear out the blockage follow the safety steps described above and clear out the blockage. Ensure there are no ropes, twines or wires wrapped around the rotors.

Machine storage

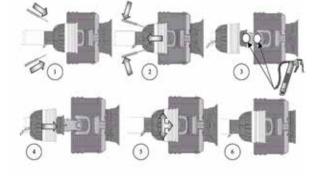
To prolong the life of your machine it is recommended to store it in a dry environment. Prior to parking the machine for storage, wash the machine thoroughly, especially underneath, and ensure that there is no grass or debris left on the machine. Lubricate all pivot points with EP2 type grease. Check for oil leaks and fix these if required. Any parts of the machine with damaged paint/galvanised surface must be painted.

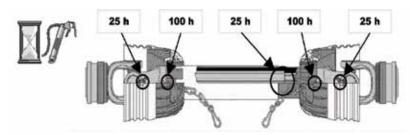
PTO Shaft Maintenance

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 Greasing Intervals





Shearbolt Replacement (if applicable)

- 1. Slide yoke shield back.
- 2. Drive out sheared bolt with hammer and punch.

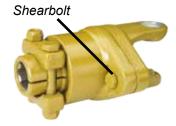
3. Align holes and install new shear bolt. (Use only genuine replacement shear bolts)

4. Slide yoke shield securely in place



Always fit PTO shaft with the shearbolt/slip-clutch end connected to the machine as directed on the PTO guarding.





Transmission Bolts

All nuts and bolts in the transmission including Rubber couplings, Star Drives, PTO Shafts and Gearboxes should be checked for tightenes after mowing at the following intervals:

1st 50 Acres 1st 100 Acres 1st 250 Acres And every 250 acres thereafter.

Roller (*if applicable*)

Check the of condition of the rollerend (stub axle) at the end of every season. Roller shaft (stub) must be able to rotate freely and without excessive play. If necessary, remove the roller assembly and adjust the tightness of the bearings.

Replacement of wear parts

Blades, blade backs, blade bushing, blade bolts and nuts must be checked on a regular basis for wear and defection. MAJOR recommends to visually check the blade assemblies every 40 hours of operation. This interval may change depending on the operational conditions.

Replace any damaged or worn parts immediately, failure to do so can result in blade breakages and can cause damage to the equipment or injuries to the operator and others nearby.

Blunt blades must be sharpened or replaced, failure to do so will result in a poor quality cut and excessive use of power from your tractor.



If the machine is equipped with wheels, wheel nuts must be checked daily. Air pressure within pneumatic tyres must be maintained at 2 Bar. Solid wheels must be checked for wear and damage and if necessary replaced immediately.



ENSURE BLADE ROTATION AND TIMING IS CORRECT AFTER SERVICING TRANSMISSION.



Pay attention when servicing or detaching components from the machine. Subassemblies and parts e.g. blade assemblies, gearboxes, rollers, guards, skids, wheels etc. can weigh up to 100 kilograms individually and must be supported adequately before fully detaching from the machine.

Clearing out a blockage

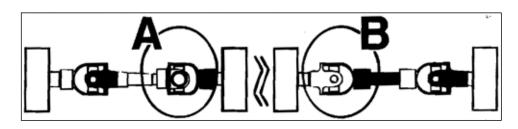
Always wear appropriate PPE when clearing out blockages.

If blockage of blades occurs proceed as follows:

- 1. Set the machine into transport position (including the top links);
- 2. Park the tractor on level ground, switch off the engine and remove the key from the ignition;
- 3. Apply a handbrake and disconnect the PTO shaft;
- 4. Using a pressure washer clear out the excess material built up around the blades. If the pressure washer is not available use your hand to remove the grass from around the blades, bearing in mind that there might be wires wrapped up around the rotors.

Wing shafts alignment (if applicable)

Ensure that after servicing the transmission, the wing pto shaft yokes are correctly aligned as shown in the diagram below – winged models only. If the shaft journals are fitted incorrectly the damage will only occur when the wings are raised into transport position.



Troubleshooting

Fault	Cause	Remedy
	Material too high or too much material	Reduce the ground speed but maintain required rpm from the PTO input
Machine is getting blocked	Grass is too wet	Stop and wait until grass is dried
	Worn or dull blades	Sharpen or replace blades
	Blades dull or bent	Sharpen or replace blades
	Carrier RPM too low	Use correct PTO speed
Leaves a streak of uncut or	Field conditions are so wet that the tractor tyre is pushing grass into mud	Too wet to mow. Stop operation and wait until grass is drier
partially cut grass	Ground speed too fast	Reduce ground speed by shifting to a lower gear
	Possible build-up materials under mower	Clean mower
	Blades mounted incorrectly (cutting edge against direction rotation)	Change blades so that cutting edge is facing correct rotation.
Material discharges from mower unevenly; bunches of material along with swath	Material too high and/or too much material	Reduce ground speed but maintain the recommended RPM 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
	Low on lubricant	Fill to proper level
Gearbox overheating	Improper type lubricant	Replace with proper lubricant
	Excessive grass / debris build-up around gearbox	Remove grass, etc from machine
	Mower too low	Raise mower-reset wheels
Blade/bullets is scalping ground	Field is ridged	Cut field at a different angle
5	Field is too wet	Stop and wait until it is dried
Mower will not cut.	Shear bolt sheared	Install new shear bolt
	Cutting in sandy conditions	Increase cutting height
Blades/bullets wear too fast	Cutting in rocky conditions	Increase cutting height
	Blades hitting ground	Increase cutting height
	Advancing into grass too rapidly	Reduce forward travel speed
Mower seems to require	Hitting ground	Raise mower and reset wheels
excessive power	Worn or dull blades	Sharpen or replace blades
	Tractor not large enough	Use larger horsepower tractor
	Check gearbox bolts	Tighten if loose
	Check for loose nuts on blades	Tighten if loose
Excessive vibration	Blade broken	Replace blades, in set
	New blade or bolts matched with worn blade or bolts	Replace blades or bolts in sets
	Drivelines not phased correctly. Implement and tractor yokes must be in line	Phase the driveline. Replace if necessary
	Worn bearing	Replace bearings
	Low oil in gearbox	Check level and add oil
	Loose Parts	Check all bolts are fully tightened
Noisy machine	Wrong PTO rpm rate	Check PTO rate & adjust as necessary
Noisy machine	Rotors bent / broken	Replace bent or missing blades
		Check PTO shafts are aligned correctly
	Bent PTO shaft	Check output shaft on gearboxs are not bent
		Check driveline between gearboxes is aligned.

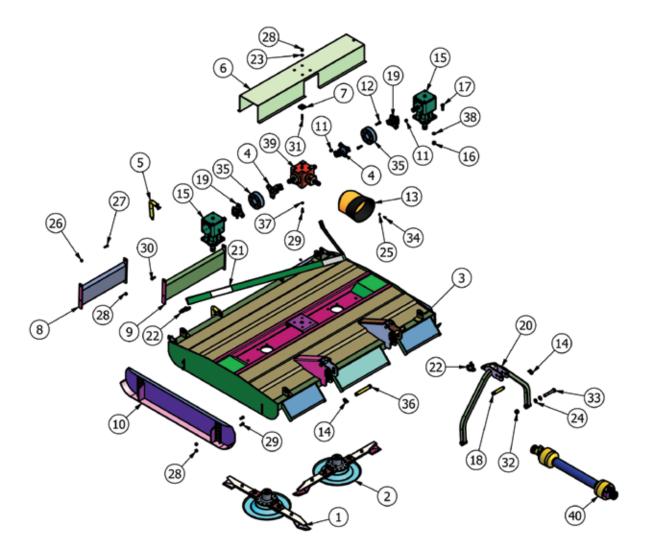
	Damaged oil seal	Replace seal
	Bent shaft	Replace oil seal and shaft
	Shaft rough in oil seal area	Replace or repair shaft
	Oil seal installed incorrectly	Replace seal
Gearbox leaking	Oil seal not sealing in the housing	Replace seal or use a sealant on outside diameter of seal
	Oil level too high	Drain oil to proper level
	Hole in gearbox	Replace the gearbox
	Gasket damaged	Replace gasket
	Bolts loose	Tighten bolts

Lubrication schedule

Use EP2 type grease or equivalent. Use oil which conforms to 85W/140 standards.

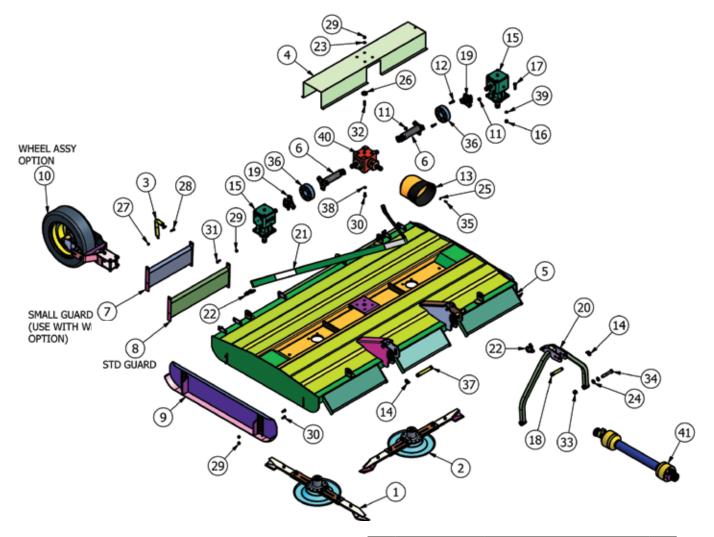
	Grease points	Initially	25 hours	40 hours	80 hours 400	hours
All PTO Shaft Yoke Ends		٠	•			
PTO tubes		٠			•	
Arm pivot	0/1				•	
Headstock pivot	0/1				•	
Hydraulic Ram	0/1			•		
Castor wheel pivot	0/2				•	
Castor wheel axle	0/2				•	
Check oil levels in the gearboxes					•	
Replace oil in gearboxes						•

Spare Parts



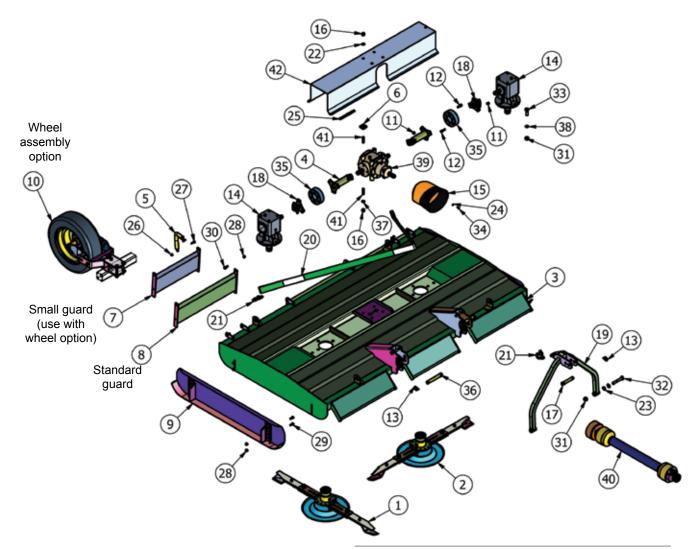
ltem	Part No	Description	Qty
1	1125-D-BL	1125 BLADE (Anti_Clk)	1
2	1125-D-BR	11125 BLADE (Clk)	1
3	7GT-BD01	700M BODY FAB	1
4	7GTD	DRIVE TUBE (120mm)	2
5	909GT-GDC01	GUARD CHAIN ADJUSTER	2
6	9GT-COV	900M GEARBOX COVER	1
7	GM12-A	GUARD MOUNT BUFFER	4
8	SL45RG	405 REAR GUARD	2
9	SL65RG	REAR GUARD	1
10	SLH16AS	SKID (OFFSET)	2
11	1/2F	1/2" FINE NYLOC NUT	12
12	12x112FSKS	1/2"x1 1/2" FINE SOCKET HEAD 12.9	12
13	190.000.545	PTO GUARD (EXTENDED OVAL)	1
14	3546	LINCH PIN DIA 9.5	3
15	MJ40L	6 SPLINE "L" BOX RATIO 1.47	2
16	5/8F	5/8" FINE NYLOC NUT	8
17	58x2FBZP	5/8"x2" FINE BOLT	8
18	81	CAT 2 PIN DIA 25.4x110mm	1
19	8SM18	6 SPLINE STAR DRIVE	2
20	909-AF-01	909 A-FRAME 2011	1
21	9GTSTRP	900M STRAP (3226mm)	1

22	EW29A	5/8" "D" SHACKLE	3
23	FWM12	M12 FLAT WASHER	4
24	FWM20	M20 FLAT WASHER	4
25	FWM8	M8 FLAT WASHER	4
26	M10	M10 NYLOC NUT	2
27	M10x35SZP	M10x35 SET BOLT	2
28	M12	M12 NYLOC NUT	16
29	M12x30SZP	M12x30 SET BOLT	12
30	M12x35BZP	M12x35 BOLT	4
31	M12x50SB	M12x50mm STUD	4
32	M20	M20 NYLOC NUT	2
33	M20x120BZP	M20x120 BOLT	2
34	M8x16SZP	M8x16 SET BOLT	4
35	MJRC-113	113 PCD RUBBER COUPLING	2
36	112	CAT 2 PIN DIA 28.5x159mm	2
37	SW12	1/2" SPRING WASHER	4
38	SW58	5/8" SPRING WASHER	8
39	T27A	6 SPLINE "T" BOX RATIO 1.92 267245	1
40	T600810ENC12RB2	T60 SHEAR BOLT O/R	1



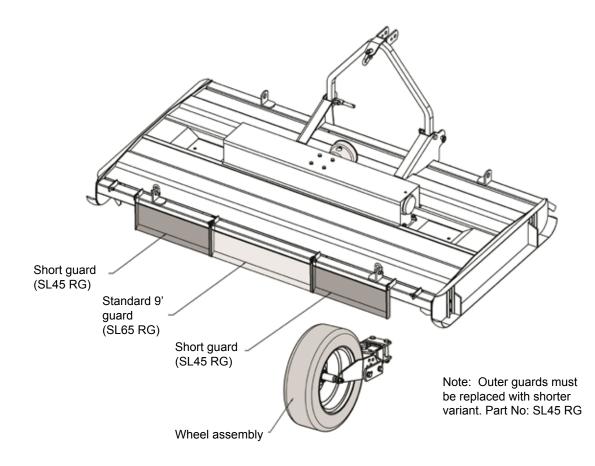
1 1385 V3-D-BL 1385 BLADE (Anti_Clk) 1 2 1385V3-D-BR 1385 BLADE (Clk) 1 3 909GT-GDC01 GUARD CHAIN ADJUSTER 2 4 9GT-COV 900M GEARBOX COVER 1 5 9GTB-FAB 900M BODY FAB 1 6 9GTD DRIVE TUBE (292mm) 2 7 SL45RG 405 REAR GUARD 2 8 SL65RG REAR GUARD 3 9 SLH16AS SKID (OFFSET) 2 10 TWA-002 TOPPER CAR WHEEL ASSY 2 11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 <tr< th=""><th>ltem</th><th>Part No</th><th>Description</th><th>Qty</th></tr<>	ltem	Part No	Description	Qty
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4 9GT-COV 900M GEARBOX COVER 1 5 9GTB-FAB 900M BODY FAB 1 6 9GTD DRIVE TUBE (292mm) 2 7 SL45RG 405 REAR GUARD 2 8 SL65RG REAR GUARD 3 9 SLH16AS SKID (OFFSET) 2 10 TWA-002 TOPPER CAR WHEEL ASSY 2 11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 <td< td=""><td>2</td><td>1385V3-D-BR</td><td>1385 BLADE (Clk)</td><td>1</td></td<>	2	1385V3-D-BR	1385 BLADE (Clk)	1
5 9GTB-FAB 900M BODY FAB 1 6 9GTD DRIVE TUBE (292mm) 2 7 SL45RG 405 REAR GUARD 2 8 SL65RG REAR GUARD 3 9 SLH16AS SKID (OFFSET) 2 10 TWA-002 TOPPER CAR WHEEL ASSY 2 11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	3	909GT-GDC01	GUARD CHAIN ADJUSTER	2
6 9GTD DRIVE TUBE (292mm) 2 7 SL45RG 405 REAR GUARD 2 8 SL65RG REAR GUARD 3 9 SLH16AS SKID (OFFSET) 2 10 TWA-002 TOPPER CAR WHEEL ASSY 2 11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	4	9GT-COV	900M GEARBOX COVER	1
7 SL45RG 405 REAR GUARD 2 8 SL65RG REAR GUARD 3 9 SLH16AS SKID (OFFSET) 2 10 TWA-002 TOPPER CAR WHEEL ASSY 2 11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	5	9GTB-FAB	900M BODY FAB	1
8 SL65RG REAR GUARD 3 9 SLH16AS SKID (OFFSET) 2 10 TWA-002 TOPPER CAR WHEEL ASSY 2 11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	6	9GTD	DRIVE TUBE (292mm)	2
9 SLH16AS SKID (OFFSET) 2 10 TWA-002 TOPPER CAR WHEEL ASSY 2 11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	7	SL45RG	405 REAR GUARD	2
10 TWA-002 TOPPER CAR WHEEL ASSY 2 11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	8	SL65RG	REAR GUARD	3
11 1/2F 1/2" FINE NYLOC NUT 12 12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	9	SLH16AS	SKID (OFFSET)	2
12 12x112FSKS 1/2"x1 1/2" FINE SOCKET HEAD 12.9 12 13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	10	TWA-002	TOPPER CAR WHEEL ASSY	2
13 190.000.545 PTO GUARD (EXTENDED OVAL) 1 14 3546 LINCH PIN DIA 9.5 3 15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	11	1/2F	1/2" FINE NYLOC NUT	12
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15 MJ40L 6 SPLINE "L" BOX RATIO 1.47 2 16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	13	190.000.545	PTO GUARD (EXTENDED OVAL)	1
16 5/8F 5/8" FINE NYLOC NUT 8 17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	14	3546	LINCH PIN DIA 9.5	3
17 58x2FBZP 5/8"x2" FINE BOLT 8 18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	15	MJ40L	6 SPLINE "L" BOX RATIO 1.47	2
18 81 CAT 2 PIN DIA 25.4x110mm 1 19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	16	5/8F	5/8" FINE NYLOC NUT	8
19 8SM18 6 SPLINE STAR DRIVE 2 20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	17	58x2FBZP	5/8"x2" FINE BOLT	8
20 909-AF-01 909 A-FRAME 2011 1 21 9GTSTRP 900M STRAP (3226mm) 1	18	81	CAT 2 PIN DIA 25.4x110mm	1
21 9GTSTRP 900M STRAP (3226mm) 1	19	8SM18	6 SPLINE STAR DRIVE	2
	20	909-AF-01	909 A-FRAME 2011	1
22 EW29A 5/8" "D" SHACKLE 3	21	9GTSTRP	900M STRAP (3226mm)	1
	22	EW29A	5/8" "D" SHACKLE	3

23	FWM12	M12 FLAT WASHER	4
24	FWM20	M20 FLAT WASHER	4
25	FWM8	M8 FLAT WASHER	4
26	GM12-A	GUARD MOUNT BUFFER	4
27	M10	M10 NYLOC NUT	2
28	M10x35SZP	M10x35 SET BOLT	2
29	M12	M12 NYLOC NUT	16
30	M12x30SZP	M12x30 SET BOLT	12
31	M12x35BZP	M12x35 BOLT	4
32	M12x50SB	M12x50mm STUD	4
33	M20	M20 NYLOC NUT	2
34	M20x120BZP	M20x120 BOLT	2
35	M8x16SZP	M8x16 SET BOLT	4
36	MJRC-113	113 PCD RUBBER COUPLING	2
37	112	CAT 2 PIN DIA 28.5x159mm	2
38	SW12	1/2" SPRING WASHER	4
39	SW58	5/8" SPRING WASHER	8
40	T27A	6 SPLINE "T" BOX RATIO 1.92 267245	1
41	T600810ENC12RB2	T60 SHEAR BOLT O/R	1



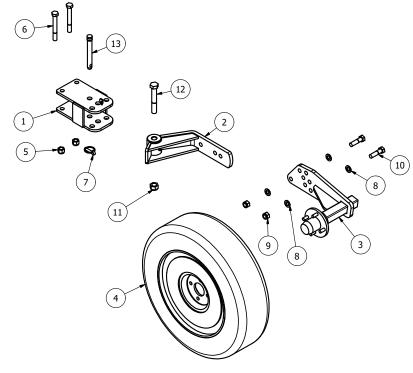
ltem	Part No	Description	Qty
1	1385V2-D-BL	1385 BLADE (Anti_Clk)	1
2	1385V2-D-BR	1385 BLADE (Clk)	1
3	909GT-B01	909GT-BODY	1
4	909GT-DRV	DRIVE TUBE (242mm)	2
5	909GT-GDC01	GUARD CHAIN ADJUSTER	2
6	GM12-A	GUARD MOUNT BUFFER	4
7	SL45RG	405 REAR GUARD	2
8	SL65RG	REAR GUARD	3
9	SLH16AS	SKID (OFFSET)	2
10	TWA-002	TOPPER CAR WHEEL ASSY	2
11	1/2F	1/2" FINE NYLOC NUT	12
12	12x112FSKS	1/2"x1 1/2" FINE SOCKET HD 12.9	12
13	3546	LINCH PIN DIA 9.5	3
14	LF140T/1	6 SPLINE "L" BOX RATIO 1:1 140.881	2
15	190.000.545	PTO GUARD (EXTENDED OVAL)	1
16	5/8F	5/8" FINE NYLOC NUT	8
17	81	CAT 2 PIN DIA 25.4x110mm	1
18	8SM18	6 SPLINE STAR DRIVE	2
19	909-AF-01	909 A-FRAME 2011	1
20	9GTSTRP	900M STRAP (3226mm)	1
21	EW29A	5/8" "D" SHACKLE	3
22	FWM16	M16 FLAT WASHER	4

23	FWM20	M20 FLAT WASHER	4
24	FWM8	M8 FLAT WASHER	4
25	LS002	ANTI VIBRATION RUBBER	7
26	M10	M10 NYLOC NUT	2
27	M10x35SZP	M10x35 SET BOLT	2
28	M12	M12 NYLOC NUT	12
29	M12x30SZP	M12x30 SET BOLT	8
30	M12x35BZP	M12x35 BOLT	4
31	M20	M20 NYLOC NUT	10
32	M20x120BZP	M20x120 BOLT	2
33	M20x60BZP	M20x60 BOLT	8
34	M8x16SZP	M8x16 SET BOLT	4
35	MJRC-113	113 PCD RUBBER COUPLING	2
36	112	CAT 2 PIN DIA 28.5x159mm	2
37	SW58	5/8" SPRING WASHER	4
38	SWM20	M20 SPRING WASHER	8
39	T292B/2	6 SPLINE "T" BOX RATIO 1:1.47 292.005	1
40	V600910ENC12RW6	V60 FIXED SLIP CLUTCH	1
41	T292A-S1	T292 G/BOX STUD	8
42	909GT-COV	909 GEARBOX COVER	1

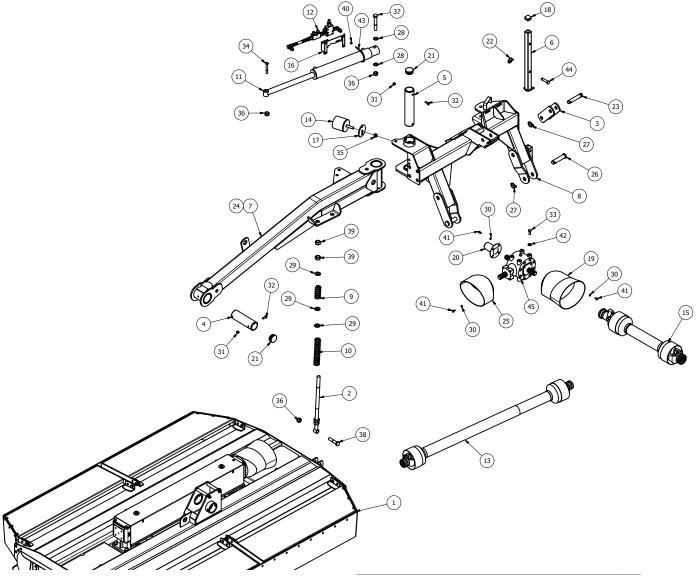


	el Assem	bly (TWA-002)	
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ltem	Part No.	23	21 Otv
	Part No	Description	Qty
1	TWA-020	Description PIVOT MOUNT	\bigcirc
1 2	TWA-020 TWA-030	Description PIVOT MOUNT PIVOT ARM	Qty 1
1 2 3	TWA-020 TWA-030 TWA-052	23 Description PIVOT MOUNT PIVOT ARM TOPPER 4 STUD AXLE HUB	Qty 1 1
1 2 3 4	TWA-020 TWA-030 TWA-052 30204-AV	Description PIVOT MOUNT PIVOT ARM TOPPER 4 STUD AXLE HUB NILOS RING 47x20	Qty 1 1 1 1
1 2 3 4 5	TWA-020 TWA-030 TWA-052 30204-AV 30204A	23 23 PIVOT MOUNT PIVOT ARM TOPPER 4 STUD AXLE HUB NILOS RING 47x20 TAPER BRG 47x20x15.25	Qty 1 1 1 1 1 1
1 2 3 4 5 6	TWA-020 TWA-030 TWA-052 30204-AV 30204A 30206-AV	23 Description PIVOT MOUNT PIVOT ARM TOPPER 4 STUD AXLE HUB NILOS RING 47x20 TAPER BRG 47x20x15.25 NILOS RING 62x30	Qty 1 1 1 1 1 1
1 2 3 4 5 6 7	TWA-020 TWA-030 TWA-052 30204-AV 30204A 30206-AV 915N30204	23 23 PIVOT MOUNT PIVOT MOUNT PIVOT ARM TOPPER 4 STUD AXLE HUB NILOS RING 47x20 TAPER BRG 47x20x15.25 NILOS RING 62x30 SHEILD 47x20	Qty 1 1 1 1 1 1 1 1
1 2 3 4 5 6 7 8	TWA-020 TWA-030 TWA-052 30204-AV 30204A 30206-AV	23 Description PIVOT MOUNT PIVOT ARM TOPPER 4 STUD AXLE HUB NILOS RING 47x20 TAPER BRG 47x20x15.25 NILOS RING 62x30 SHEILD 47x20 SHEILD 62x30	Qty 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 2 3 4 5 6 7 8 9	TWA-020 TWA-030 TWA-052 30204-AV 30204A 30206-AV 915N30204 915N30206	23 23 PIVOT MOUNT PIVOT MOUNT PIVOT ARM TOPPER 4 STUD AXLE HUB NILOS RING 47x20 TAPER BRG 47x20x15.25 NILOS RING 62x30 SHEILD 47x20	Qty 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

Wheel Assembly (TWA-220)

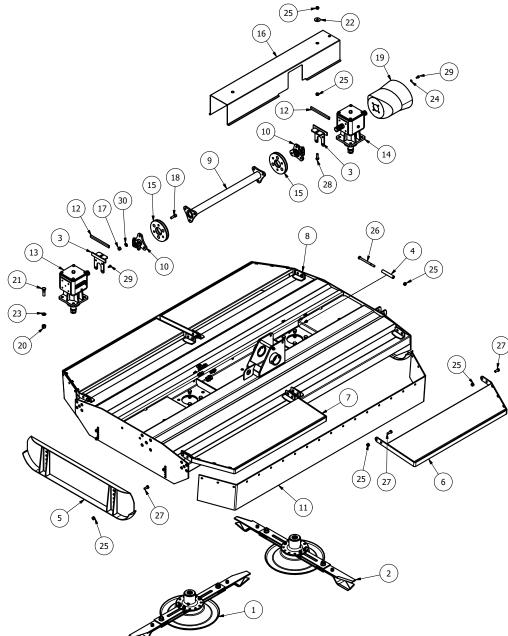


ltem	Part No	Description	Qty
1	TWA-020	PIVOT MOUNT	1
2	TWA-210	PIVOT ARM	1
3	TWA-230	CASTOR WHEEL AXLE	1
4	17570R14	DIA 600x170mm	1
5	5/8F	5/8" FINE NYLOC NUT	2
6	58x5FBZP	5/8"x5" FINE BOLT	2
7	AN099/10	LINCH PIN DIA 9.5	1
8	FWM16	M16 FLAT WASHER	4
9	M16	M16 NYLOC NUT	2
10	M16x60BZP	M16x60 BOLT	2
11	M20	M20 NYLOC NUT	1
12	M20x130BZP	M20x130 BOLT	1
13	S77	CAT 1 PIN DIA 19x127mm	1



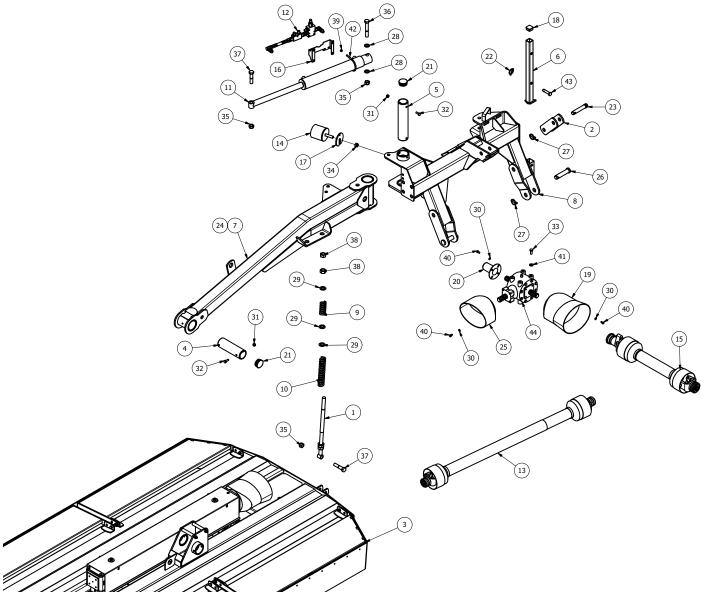
ltem	Part No	Description	Qty
1	8SM-BGA	800SM GALV BODY ASSY	1
2	8SM5	DAMPER BAR	1
3	8SM8	TOP LINK FLOAT HINGE	1
4	9SM-PP04	BODY PIN TUBE	1
5	9SM-PP05	LINKAGE PIN TUBE	1
6	9SM-STD15	LINKAGE STAND	1
7	9SM-CA01GV	SM CARRY ARM (GALV)	1
8	9SM-L001GV	900SM LINKAGE (GALV)	1
9	8SM12-9	DAMPER SPRING (UPPER)	1
10	8SM13-9	DAMPER SPRING (LOWER)	1
11	900SM-09RAM	900SM RAM	1
12	9SM-HYD01	900SM HYDRAULICS	1
13	B5D116CES60002	COLLAR-COLLAR PTO	1
14	MOT10	DIA 100x100 BUFFER	1
15	T600610ENC12RB2	T60 SHEAR BOLT O/R	1
16	9SM-HYD06	VALVE MOUNT	1
17	8T19	BUFFER SPACER	1
18	111203	SQ 34-38mm INSERT (POL)	1
19	190.000.545	PTO GUARD (EXTENDED OVAL)	1
20	190592	PTO HAT	1
21	199268	DIA 63.5mm (2-4mm) INSERT	2
22	37	LINCH PIN DIA 6	1

23	81	CAT 2 PIN DIA 25.4x110mm	1
24	820	GREASE NIPPLE 1/8" STR	2
25	8SM11-2	PTO GUARD (OVAL)	1
26	9162	CAT 2 PIN DIA 28.5x113mm	2
27	AN099/10	LINCH PIN DIA 9.5	3
28	FWM20	M20 FLAT WASHER	2
29	FWM24	M24 FLAT WASHER	3
30	FWM8	M8 FLAT WASHER	10
31	M10	M10 NYLOC NUT	8
32	M10x30SZP	M10x30 SET BOLT	8
33	M12x30SZP	M12x30 SET BOLT	4
34	M12x90BZP	M12x90 BOLT	1
35	M16	M16 NYLOC NUT	1
36	M20	M20 NYLOC NUT	3
37	M20x130BZP	M20x130 BOLT	1
38	M20x90BZP	M20x90 BOLT	1
39	M24HEX	M24 PLAIN NUT	2
40	M8	M8 NYLOC NUT	4
41	M8x16SZP	M8x16 SET BOLT	10
42	NL12SP	M12 SP NORDLOCK	4
43	S13916	DIA 83mm SILENCER CLAMP	2
44	S15010	CAT 0 PIN DIA 16x54mm	1
45	T304A	6 SPLINE 'T' BOX 304.215 1:1.93	1



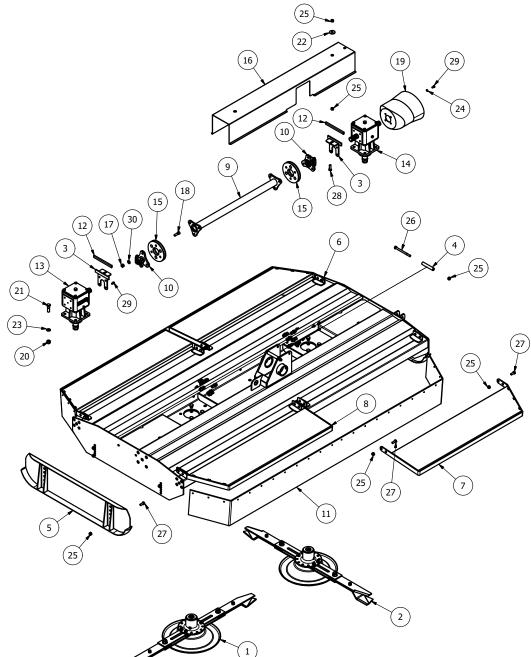
ltem	Part No	Description	Qty
1	1239V2-D-BL	1239 BLADE (Anti_Clk)	1
2	1239V2-D-BR	1239 BLADE (Clk)	1
3	8SM-CVR	G/BOX COVER BRKT	2
4	8SM2-50GV	SPACER TUBE	2
5	NT11	SM SKID	2
6	8SM-GRD	800SM RIGHT HAND GUARD	2
7	8SM-GRDH	800SM LEFT HAND GUARD	2
8	8SM2-GLV	800SM BODY (GALV)	1
9	0940B077001	764mm DRIVE	1
10	60CSD	60mm STAR DRIVE	2
11	8SM-30	800SM SKIRT	2
12	LS002	ANTI VIBRATION RUBBER	2
13	MJ40L	6 SPLINE 'L' BOX RATIO 1.47 (347800)	1
14	MJ40T	6 SPLINE 'T' BOX RATIO 1.47 (347801)	1
15	MJRC-23	113 PCD COUPLING 4mm PLT	2

16	8SM19	800SM GEARBOX COVER	1
17	12HEX109	1/2F HEX 10.9	12
18	12x112FSKS	1/2"x1 1/2" FINE SOCKET HEAD 12.9	12
19	190.000.545	PTO GUARD (EXTENDED OVAL)	1
20	5/8F	5/8" FINE NYLOC NUT	8
21	58x214FBZP	5/8"x2 1/4" FINE BOLT	8
22	FWM12XL	M12 FLAT WASHER (EX-LARGE)	2
23	FWM16	M16 FLAT WASHER	8
24	FWM8	M8 FLAT WASHER	4
25	M12	M12 NYLOC NUT	22
26	M12x160BZP	M12x160 BOLT	2
27	M12x30SZP	M12x30 SET BOLT	16
28	M12x40SZP	M12x40 SET BOLT	2
29	M8x16SZP	M8x16 SET BOLT	8
30	NL12SP	M12 SP NORDLOCK	12



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Item	Part No	Description	Qty
1	8SM5	DAMPER BAR	1
2	8SM8	TOP LINK FLOAT HINGE	1
3	9SM-BGA	900SM GALV BODY ASSY	1
4	9SM-PP04	BODY PIN TUBE	1
5	9SM-PP05	LINKAGE PIN TUBE	1
6	9SM-STD15	LINKAGE STAND	1
7	9SM-CA01GV	SM CARRY ARM (GALV)	1
8	9SM-L001GV	900SM LINKAGE (GALV)	1
9	8SM12-9	DAMPER SPRING (UPPER)	1
10	8SM13-9	DAMPER SPRING (LOWER)	1
11	900SM-09RAM	900SM RAM	1
12	9SM-HYD01	900SM HYDRAULICS	1
13	B5D116CES60002	COLLAR-COLLAR PTO	1
14	MOT10	DIA 100x100 BUFFER	1
15	T600610ENC12RB2	T60 SHEAR BOLT O/R	1
16	9SM-HYD06	VALVE MOUNT	1
17	8T19	BUFFER SPACER	1
18	111203	SQ 34-38mm INSERT (POL)	1
19	190.000.545	PTO GUARD (EXTENDED OVAL)	1
20	190592	PTO HAT	1
21	199268	DIA 63.5mm (2-4mm) INSERT	2
22	37	LINCH PIN DIA 6	1

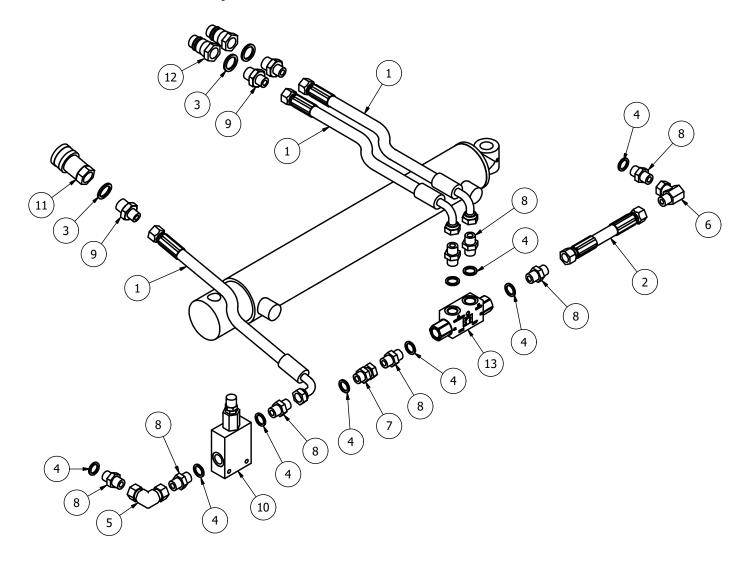
23	81	CAT 2 PIN DIA 25.4x110mm	1
24	820	GREASE NIPPLE 1/8" STR	2
25	8SM11-2	PTO GUARD (OVAL)	1
26	9162	CAT 2 PIN DIA 28.5x113mm	2
27	AN099/10	LINCH PIN DIA 9.5	3
28	FWM20	M20 FLAT WASHER	2
29	FWM24	M24 FLAT WASHER	3
30	FWM8	M8 FLAT WASHER	10
31	M10	M10 NYLOC NUT	8
32	M10x30SZP	M10x30 SET BOLT	8
33	M12x30SZP	M12x30 SET BOLT	4
34	M16	M16 NYLOC NUT	1
35	M20	M20 NYLOC NUT	3
36	M20x130BZP	M20x130 BOLT	1
37	M20x90BZP	M20x90 BOLT	2
38	M24HEX	M24 PLAIN NUT	2
39	M8	M8 NYLOC NUT	4
40	M8x16SZP	M8x16 SET BOLT	10
41	NL12SP	M12 SP NORDLOCK	4
42	S13916	DIA 83mm SILENCER CLAMP	2
43	S15010	CAT 0 PIN DIA 16x54mm	1
44	T304A	6 SPLINE 'T' BOX RATIO 1:1.93 304.215	1



Item	Part No	Description	Qty
1	1385V3-D-BL	1385 BLADE (Anti_Clk)	1
2	1385V3-D-BR	1385 BLADE (Clk)	1
3	8SM-CVR	G/BOX COVER BRKT	2
4	8SM2-50GV	SPACER TUBE	2
5	NT11	SM SKID	2
6	9SM-B001GV	900SM BODY (GALV)	1
7	9SM-GRD1	900SM GUARD	2
8	9SM-GRD1H	900SM GUARD	2
9	0940B091001	912mm DRIVE	1
10	60CSD	60mm STAR DRIVE	2
11	9T-SKF	900T SKIRT	2
12	LS002	ANTI VIBRATION RUBBER	2
13	MJ40L	6 SPLINE 'L' BOX RATIO 1.47 (347800)	1
14	MJ40T	6 SPLINE 'T' BOX RATIO 1.47 (347801)	1

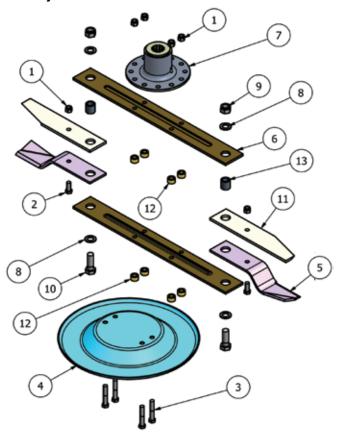
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MJRC-23	113 PCD COUPLING 4mm PLT	2
9SM-G002	900SM GEARBOX COVER	1
12HEX109	1/2F HEX 10.9	12
12x112FSKS	1/2"x1 1/2" FINE SOCKET HEAD 12.9	12
190.000.545	PTO GUARD (EXTENDED OVAL)	1
5/8F	5/8" FINE NYLOC NUT	8
58x214FBZP	5/8"x2 1/4" FINE BOLT	8
FWM12XL	M12 FLAT WASHER (EX-LARGE)	2
FWM16	M16 FLAT WASHER	8
FWM8	M8 FLAT WASHER	4
M12	M12 NYLOC NUT	22
M12x160BZP	M12x160 BOLT	2
M12x30SZP	M12x30 SET BOLT	16
M12x40SZP	M12x40 SET BOLT	2
M8x16SZP	M8x16 SET BOLT	8
NL12SP	M12 SP NORDLOCK	12
	9SM-G002 12HEX109 12x112FSKS 190.000.545 5/8F 58x214FBZP FWM12XL FWM16 FWM8 M12 M12x160BZP M12x30SZP M12x40SZP M12x40SZP	9SM-G002900SM GEARBOX COVER12HEX1091/2F HEX 10.912x112FSKS1/2"x1 1/2" FINE SOCKET HEAD 12.9190.000.545PTO GUARD (EXTENDED OVAL)5/8F5/8" FINE NYLOC NUT58x214FBZP5/8"x2 1/4" FINE BOLTFWM12XLM12 FLAT WASHER (EX-LARGE)FWM16M16 FLAT WASHERFWM8M8 FLAT WASHERM12M12 NYLOC NUTM12x160BZPM12x160 BOLTM12x30SZPM12x30 SET BOLTM12x40SZPM8x16 SET BOLTM8x16SZPM8x16 SET BOLT



Item	Part No	Description	Qty
1	900SM-HOSE-A	3/8"x2000mm Str to Block 90	3
2	900SM-HOSE-B	3/8" Str to Str	1
3	EDOW12	1/2" DOWTY WASHER	3
4	EDOW38	3/8" DOWTY WASHER	9
5	EFF90-38	3/8" Female 90	1
6	EFM9038	3/8" F/M ELBOW	1
7	EMF38	3/8" M/F CONNECTOR	1
8	EMM38	3/8" M/M CONNECTOR	8
9	EMM3812	1/2-3/8" M/M CONNECTOR	3
10	LU00207000	PRESSURE RELIEF VALVE	1
11	QRF12	1/2" QUICK RELEASE FEMALE	1
12	QRM12	1/2" QUICK RELEASE MALE	2
13	VRDE-15-FF-38	DOUBLE PILOT CHECK VALVE	1

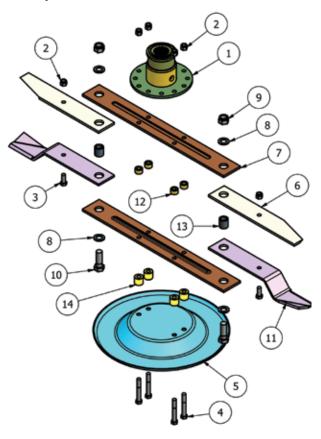
800SM-HD Blades Blade System: 1239-D-BL and 1239-D-BR



ltem	Part No	Description	Qty
1	1/2F	1/2" FINE NYLOC NUT	6
2	12x114FBZP	1/2"x1 1/4" FINE BOLT	2
3	12x3FBZP	1/2"x3" FINE BOLT	4
4	9GT-USS	UNDER SOLE SKID	1
5	9GTB/A	SWING BLADE (Anti-Clk)	2
5	9GTB/C	SWING BLADE (CIk)	2
6	BLDB-623	BLADE BACK (623 CTR)	2
7	DF-BMP	J205 G/BOX BLADE MOUNT	1
8	FWM20	M20 FLAT WASHER	4
9	M20	M20 NYLOC NUT	2
10	M20x60BZP	M20x60 BOLT	2
11	NTSB12C	OVERLAP BLADE	2
12	12T-BBS	BLADE BACK SPACER	8
13	12T-LBB	OVERLAP BLADE BUSH	2

MACHINE	QTY
800SM-HD	1 clockwise 1 anti clockwise

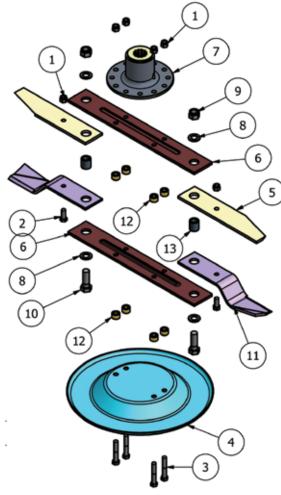
900SM-HD, 9FTGDX-HD Blades Blade System: 1385V3-D-BL and 1385V3-D-BR



ltem	Part No	Description	Qty
1	DF-BMP	J205 G/BOX BLADE MOUNT	1
2	1/2F	1/2" FINE NYLOC NUT	6
3	12x114FBZP	1/2"x1 1/4" FINE BOLT	2
4	12x312FBZP	1/2"x3 1/2" FINE BOLT	4
5	9GT-USS	UNDER SOLE SKID	1
6	BLD-OV375	OVERLAP BLADE 375mm	2
7	BLDB-595	BLADE BACK (595 CTR)	2
8	FWM20	M20 FLAT WASHER	4
9	M20	M20 NYLOC NUT	2
10	M20x60BZP	M20x60 BOLT	2
11	NTSB10A1	601 SLASHER BLADE (Anti-Clk)	2
11	NTSB10A2	601 SLASHER BLADE (CIk)	2
12	12T-BBS	BLADE BACK SPACER	4
13	12T-LBB	OVERLAP BLADE BUSH	2
14	84RM-BAM	BLADE BACK SPACER-PLATED	4

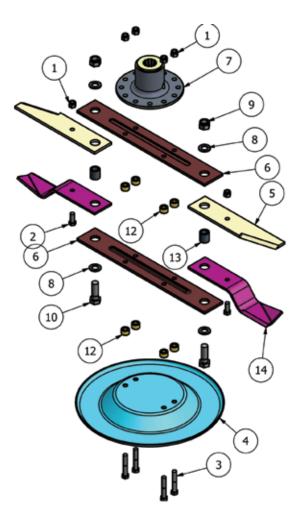
MACHINE	QTY
900SM-HD	1 clockwise 1 anti clockwise
9FTGDX-HD	1 clockwise 1 anti clockwise

7FTGDX-HD Blades



1097-D-BL Blades

ltem	Part No	Description	Qty
1	1/2F	1/2" FINE NYLOC NUT	6
2	12x114FBZP	1/2"x1 1/4" FINE BOLT	2
3	12x3FBZP	1/2"x3" FINE BOLT	4
4	9GT-USS	UNDER SOLE SKID	1
5	NTSB12C	OVERLAP BLADE	2
6	GM26	BLADE BACK (481 CTR)	2
7	DF-BMP	J205 G/BOX BLADE MOUNT	1
8	FWM20	M20 FLAT WASHER	4
9	M20	M20 NYLOC NUT	2
10	M20x60BZP	M20x60 BOLT	2
11	9GTB/A	SWING BLADE (Anti-Clk)	2
12	12T-BBS	BLADE BACK SPACER	8
13	12T-LBB	OVERLAP BLADE BUSH	2

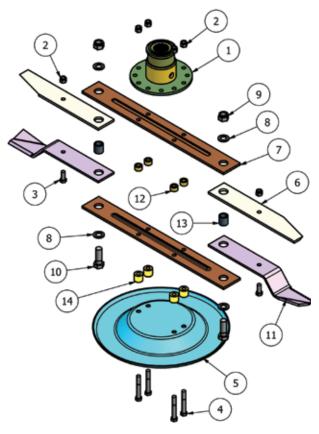


1097-D-BR Blades

ltem	Part No	Description	Qty
1	1/2F	1/2" FINE NYLOC NUT	6
2	12x114FBZP	1/2"x1 1/4" FINE BOLT	2
3	12x3FBZP	1/2"x3" FINE BOLT	4
4	9GT-USS	UNDER SOLE SKID	1
5	NTSB12C	OVERLAP BLADE	2
6	GM26	BLADE BACK (481 CTR)	2
7	DF-BMP	J205 G/BOX BLADE MOUNT	1
8	FWM20	M20 FLAT WASHER	4
9	M20	M20 NYLOC NUT	2
10	M20x60BZP	M20x60 BOLT	2
12	12T-BBS	BLADE BACK SPACER	8
13	12T-LBB	OVERLAP BLADE BUSH	2
14	9GTB/C	SWING BLADE (Clk)	2

MACHINE	QTY
7FTGDX-HD	1 clockwise 1 anti clockwise

909HD Blades Blade System: 1385V3-D-BL and 1385V3-D-BR

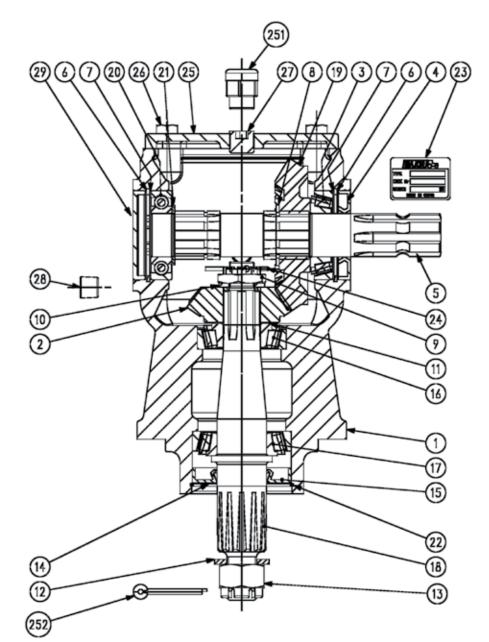


ltem	Part No	Description	Qty
1	909GT-BM01	909GT BLADE MOUNT	1
2	1/2F	1/2" FINE NYLOC NUT	6
3	12x114FBZP	1/2"x1 1/4" FINE BOLT	2
4	12x312FBZP	1/2"x3 1/2" FINE BOLT	4
5	9GT-USS	UNDER SOLE SKID	1
6	BLD-OV375	OVERLAP BLADE 375mm	2
7	BLDB-595	BLADE BACK (595 CTR)	2
8	FWM20	M20 FLAT WASHER	4
9	M20	M20 NYLOC NUT	2
10	M20x60BZP	M20x60 BOLT	2
11	NTSB10A1	601 SLASHER BLADE (Anti-Clk)	2
11	NTSB10A2	601 SLASHER BLADE (CIk)	2
12	12T-BBS	BLADE BACK SPACER	4
13	12T-LBB	OVERLAP BLADE BUSH	2
14	84RM-BAM	BLADE BACK SPACER-PLATED	4
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MACHINE	QTY
909HD	1 clockwise 1 anti clockwise
	i anti ciockwise

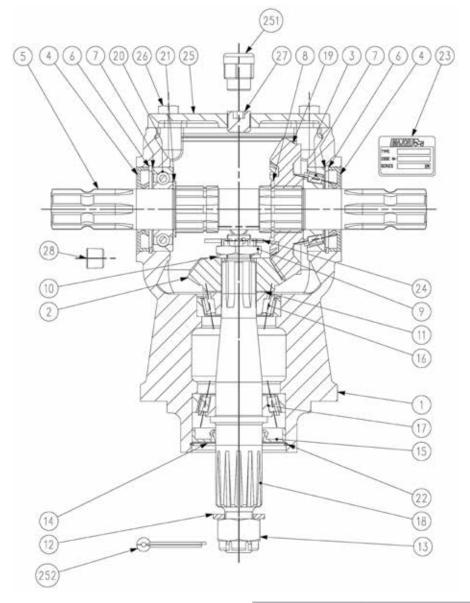
PTO Shafts

Machine	Primary	Secondary	
	T600610ENC12RB2 (T60BOOR-900)	T501160ENC12C12	
800SM-HD	T60 SHAFT OVERRUN+SHEARBOLT	T50 SHAFT COLLAR	
	T600610ENC12RB2 (T60BOOR-900)	T501160ENC12C12	
900SM-HD	T60 SHAFT OVERRUN+SHEARBOLT	T50 SHAFT COLLAR	
	T600810ENC12RW6		
9FTGDX-HD	T60 SHAFT SLIP CLUTCH		
	T601210ENC12RW6L		
9FTGDX-HD (front mounted)	T60 SHAFT OVERRUN+CLUTCH FRONT		
	V600910ENC12RW6		
909HD	V60 SHAFT SLIP CLUTCH		



ltem	Part No	Description	Qty
1	0.347.0300.00	Casting and Machining	1
2	UO.040.5004.00	Gear Pinion Z15 M5.5	1
3	8.09.00026	Roller Bearing 30207 (35x72x18.25)	1
4	8.7.3.00055	Oil Seal (35x72x10)	1
5	0.347.3002.00	Through Shaft 1"3/8 Z6	1
6	8.5.2.00131	Snap Ring (72x75x2.5 , For Holes)	2
7	0.248.7500.00	Shim Kit (60.3x71.7)	2
8	8.5.1.00680	Snap Ring (40x37.5x2.5, For Shafts)	1
9	0.289.7102.02	Castle Nut (M20X1)	1
10	8.3.2.00531	Flat Washer (21x37x3)	1
11	0.102.7500.00	Shim Kit (30.3x44)	1
12	LF135-2	Flat Washer (25x44x4)	1
13	LF135-1	Castle Nut (M24x2)	1
14	1.135.7100.00	Protective Flat Washer (40.4x79.9x1)	1
15	8.7.1.00748	Dust Lip (40x80x12)	1

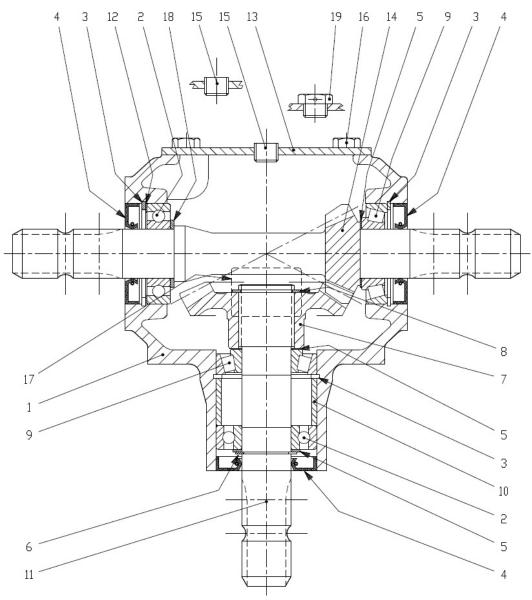
16	8.0.9.01049	Roller Bearing 30306 (30x72x20.75)	1
17	8.0.9.00024	Roller Bearing 30208 (40x80x19.75)	1
18	UO.040.3006.01	Output Shaft ASA D.P. 8/16 Z12	1
19	UO.040.6004.00	Gear Crown Z22 M5.5	1
20	8.0.1.00870	Ball Bearing 6207 (35x72x17)	1
21	0.259.7525.00	Shim (35.3x48x2.5)	1
22	8.5.3.00955	Snap Ring SB 81 (81x82.8x2)	1
23	0.205.7100.00	"Major" Name Plate	1
24	8.4.7.00823	Cotter Pin (4x40)	1
25	0.347.1300.00	Top Cover	1
26	8.11.00061	Bolt M10x25 HHB (8.8)	4
27	8.6.6.00088	1/2" Gas Solid Plug	1
28	8.6.6.00201	3/8" Gas Oil Level Plug	1
29	8.7.0.00744	Oil Cap (72x10)	1
251	8.6.7.00269	1/2" Gas Oil Breather Plug	1
252	8.4.7.00516	Cotter Pin (5x50)	1



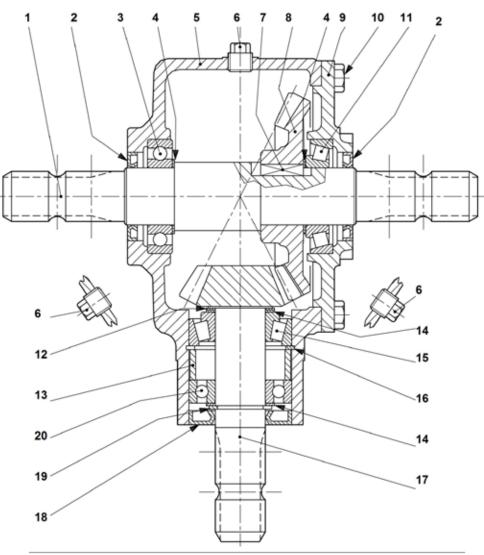
ltem	Part No	Description	Qty
1	0.347.0300.00	Casting and Machining	1
2	U0.040.5004.00	Gear Pinion Z15 M5.5	1
3	8.0.9.00026	Roller Bearing 30207 (35x72x28.25)	1
4	8.7.3.00055	Oil Seal (35x72x10)	2
5	0.347.3000.00	Through Shaft 1"3/8 Z6 - 1"3/8 Z6	1
6	8.5.2.00131	Snap Ring (72x75x2.5 , For Holes)	2
7	0.248.7500.00	Shim Kit (60.3x71.7)	2
8	8.5.1.00680	Snap Ring (40x37.5x2.5 , for shafts)	1
9	0.289.7102.02	Castle Nut (M20x1)	1
10	8.3.2.00531	Flat Washer (21x37x3)	1
11	0.102.7500.00	Shim kit (30.3x44)	1
12	LF135-2	Flat Washer (25x44x4)	1
13	LF135-1	Castle Nut (M24x2)	1

158.7.1.00748Dust Lip (40x80x12)1168.0.9.01049Roller Bearing 30306 (30x72x20.65)1178.0.9.00024Roller Bearing 30208 (40x80x19.75)118U0.040.3006.01Output Shaft ASA D.P. 8/16 Z12119U0.040.6004.00Gear Crown Z22 M5.51208.0.1.00870Ball Bearing 6207 (35x72x17)1210.259.7525.00Shim (35.5x48x2.5)1230.205.7100.00"Major" Name Plate1248.4.7.00823Cotter Pin (4x40)1250.347.1300.00Top Cover1268.1.1.00061Bolt M10x25 HHB (8.8)4278.6.6.002013/8" Gas Oil Level Plug1258.4.7.00516Cotter Pin (5x50)1	14	1.135.7100.00	Protective Flat Washer (40.4x79.9x1)	1
16 8.0.9.01049 (30x72x20.65) 1 17 8.0.9.00024 Roller Bearing 30208 (40x80x19.75) 1 18 U0.040.3006.01 Output Shaft ASA D.P. 8/16 Z12 1 19 U0.040.6004.00 Gear Crown Z22 M5.5 1 20 8.0.1.00870 Ball Bearing 6207 (35x72x17) 1 21 0.259.7525.00 Shim (35.5x48x2.5) 1 23 0.205.7100.00 "Major" Name Plate 1 24 8.4.7.00823 Cotter Pin (4x40) 1 25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00201 3/8" Gas Oil Level Plug 1 28 8.6.6.00201 3/8" Gas Oil Breather Plug 1	15	8.7.1.00748	Dust Lip (40x80x12)	1
17 8.0.9.00024 (40x80x19.75) 1 18 U0.040.3006.01 Output Shaft ASA D.P. 8/16 Z12 1 19 U0.040.6004.00 Gear Crown Z22 M5.5 1 20 8.0.1.00870 Ball Bearing 6207 (35x72x17) 1 21 0.259.7525.00 Shim (35.5x48x2.5) 1 22 8.5.3.00955 Snap Ring SB 81 (81x82.8x2) 1 23 0.205.7100.00 "Major" Name Plate 1 24 8.4.7.00823 Cotter Pin (4x40) 1 25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00201 3/8" Gas Oil Level Plug 1 28 8.6.6.00201 3/8" Gas Oil Breather Plug 1	16	8.0.9.01049	•	1
19 U0.040.6004.00 Gear Crown Z22 M5.5 1 20 8.0.1.00870 Ball Bearing 6207 (35x72x17) 1 21 0.259.7525.00 Shim (35.5x48x2.5) 1 22 8.5.3.00955 Snap Ring SB 81 (81x82.8x2) 1 23 0.205.7100.00 "Major" Name Plate 1 24 8.4.7.00823 Cotter Pin (4x40) 1 25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00201 3/8" Gas Oil Level Plug 1 28 8.6.6.00201 3/8" Gas Oil Level Plug 1	17	8.0.9.00024	-	1
20 8.0.1.00870 Ball Bearing 6207 (35x72x17) 1 21 0.259.7525.00 Shim (35.5x48x2.5) 1 22 8.5.3.00955 Snap Ring SB 81 (81x82.8x2) 1 23 0.205.7100.00 "Major" Name Plate 1 24 8.4.7.00823 Cotter Pin (4x40) 1 25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00201 3/8" Gas Oil Level Plug 1 28 8.6.6.00201 3/8" Gas Oil Breather Plug 1	18	U0.040.3006.01	Output Shaft ASA D.P. 8/16 Z12	1
21 0.259.7525.00 Shim (35.5x48x2.5) 1 22 8.5.3.00955 Snap Ring SB 81 (81x82.8x2) 1 23 0.205.7100.00 "Major" Name Plate 1 24 8.4.7.00823 Cotter Pin (4x40) 1 25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00201 3/8" Gas Oil Level Plug 1 28 8.6.6.00201 3/8" Gas Oil Breather Plug 1	19	U0.040.6004.00	Gear Crown Z22 M5.5	1
22 8.5.3.00955 Snap Ring SB 81 (81x82.8x2) 1 23 0.205.7100.00 "Major" Name Plate 1 24 8.4.7.00823 Cotter Pin (4x40) 1 25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00201 3/8" Gas Oil Level Plug 1 28 8.6.6.00201 3/8" Gas Oil Breather Plug 1	20	8.0.1.00870	Ball Bearing 6207 (35x72x17)	1
23 0.205.7100.00 "Major" Name Plate 1 24 8.4.7.00823 Cotter Pin (4x40) 1 25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00088 1/2" Gas Solid Plug 1 28 8.6.6.00201 3/8" Gas Oil Level Plug 1 251 8.6.7.00269 1/2" Gas Oil Breather Plug 1	21	0.259.7525.00	Shim (35.5x48x2.5)	1
24 8.4.7.00823 Cotter Pin (4x40) 1 25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00088 1/2" Gas Solid Plug 1 28 8.6.6.00201 3/8" Gas Oil Level Plug 1 251 8.6.7.00269 1/2" Gas Oil Breather Plug 1	22	8.5.3.00955	Snap Ring SB 81 (81x82.8x2)	1
25 0.347.1300.00 Top Cover 1 26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00088 1/2" Gas Solid Plug 1 28 8.6.6.00201 3/8" Gas Oil Level Plug 1 251 8.6.7.00269 1/2" Gas Oil Breather Plug 1	23	0.205.7100.00	"Major" Name Plate	1
26 8.1.1.00061 Bolt M10x25 HHB (8.8) 4 27 8.6.6.00088 1/2" Gas Solid Plug 1 28 8.6.6.00201 3/8" Gas Oil Level Plug 1 251 8.6.7.00269 1/2" Gas Oil Breather Plug 1	24	8.4.7.00823	Cotter Pin (4x40)	1
27 8.6.6.00088 1/2" Gas Solid Plug 1 28 8.6.6.00201 3/8" Gas Oil Level Plug 1 251 8.6.7.00269 1/2" Gas Oil Breather Plug 1	25	0.347.1300.00	Top Cover	1
28 8.6.6.00201 3/8" Gas Oil Level Plug 1 251 8.6.7.00269 1/2" Gas Oil Breather Plug 1	26	8.1.1.00061	Bolt M10x25 HHB (8.8)	4
251 8.6.7.00269 1/2" Gas Oil Breather Plug 1	27	8.6.6.00088	1/2" Gas Solid Plug	1
	28	8.6.6.00201	3/8" Gas Oil Level Plug	1
252 8.4.7.00516 Cotter Pin (5x50) 1	251	8.6.7.00269	1/2" Gas Oil Breather Plug	1
	252	8.4.7.00516	Cotter Pin (5x50)	1

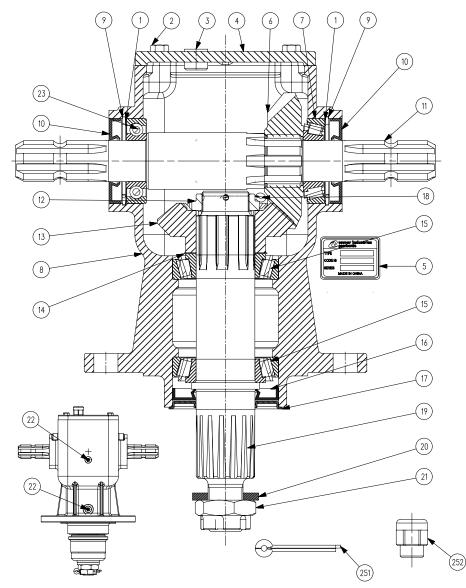
T27A - 267.245 - 1.92



Item	Part No		Description	Qty
1	T27/12	0.267.0300.00	CASING	1
2	T4A/6	8.0.1.00870	BEARING 6207	2
3	T27/2	8.5.2.00131	SNAP RING 72 UNI7437	3
4	T27/1	8.7.3.00055	OIL SEAL 35X72X10	3
5	T4A/4	0.259.7500.00	SHIM 35.3x48.0	3
6	LF135/7	8.5.1.00005	SNAP RING 35 UNI7435	1
7	T27/9	0.121.6000.00	CROWN WHEEL Z23 M5.3	1
8	T4A/2	8.5.1.00029	SNAP RING 40 UNI7435	1
9	T27/8	8.0.9.00026	BEARING 30207	2
10	T27/5	0.267.7100.00	SPACER	1
11	T27/6	0.267.2209.00	SHAFT 1"3/8	1
12	T4A/5	0.248.7500.00	SHIM 71.7	1
13	T27/13	0.267.1302.00	COVER	1
14	T27/16	0.267.6206.00	PINION Z12 M5.30	1
15	T4A/10	8.6.6.00201	PLUG 3/8"GAS	2
16	N/A	8.1.1.00054	BOLT M10X20 8,8	4
17	N/A	0.124.7101.00	PLATE	1
18	T4A/5	0.259.7525.00	SHIM 35.3x2.5	1
19	T27/17	0.107.7100.01	OIL FILLER PLUG	1

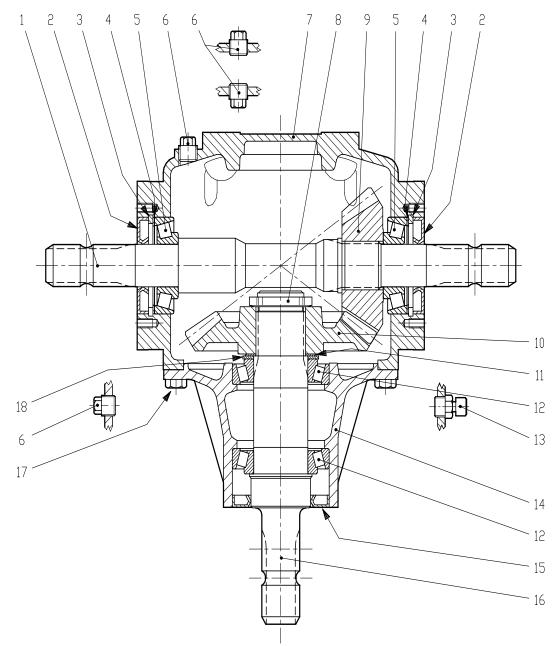


Iten	n Part No		Description	Qty
1	T-304A/15	0.244.47208.00	Shaft	1
2	T-4A/12	8.73.00603	Oil Seal	2
3	T-4A/13	8.0.9.00024	Bearing 6208 (LF135/9)	1
4	LF135/8	0.244.7500.00	Shim	2
5	T-304A/11	0.244.0511.00	Casing	1
6	LF135/13	8.6.6.00201	Plug	3
7	T-304A/16	8.4.1.00057	Parallel Key	1
8	T-4A/17	0.244.62003.00	Gear Z29	1
9	T-304A/20	0.244.1316.00	Cover	1
10	T-4A/21	8.1.1.00041	Bolt M12x25B	6
11	T-4A/18	8.0.9.00024	Bearing 30208	1
12	T-4A/4	0.259.7500.00	SHIM 35.3x48.0	2
13	T-304A/7	0.244.7121.00	Spacer	1
14	T4-A/5	0.248.7500.00	Shim Kit (60.3x71.7)	1
15	T-4A/8	8.0.9.00127	Bearing 32207	1
16	T-4A/3	8.5.2.00131	Snap Ring	1
17	T-304A/9	0.244.5206.00	Pinion Shaft Z15 M5	1
18	T-4A/1	8.7.3.00055	Oil Seal 25x72x10	1
19	T-4A/19	0.247.7201.00	Gasket	1
20	T-4A/6	8.0.1.00025	Bearing 6207 (LF135/15)	1
21	T-4A/2	8.5.2.00131	Snap Ring UNI7435	1



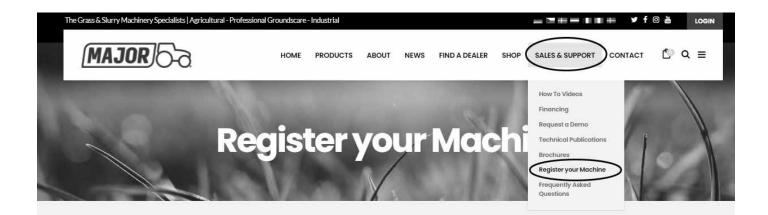
ltem	Part No	Description	Qty
1	0.248.7500.00	SHIM KIT 60.3x71.7	2
2	8.1.1.00041	BOLT M8X22 8,8	4
3	8.6.6.00088	PLUG 1/2"GAS	1
4	0.140.1302.00	COVER	1
5	0.124.7135.00	NAME PLATE	1
6	0.132.5002.00	GEAR Z18 M6.15	1
7	8.0.9.00026	BEARING 30207	1
8	0.140.0303.00	CASING	1
9	8.5.2.00131	SNAP RING HOLE 72 UNI7437	2
10	8.7.1.00152	DUST LIP SEAL 35X72X10	2
11	0.140.2007.00	SHAFT 1" 3/8	1
12	0.132.7107.00	CASTLE NUT M40X1.5	1
13	0.132.6002.00	GEAR Z18 M6.15	1

14	0.712.7500.00	SHIM KIT 50.3x70.3	1
15	8.0.9.00469	TAPER ROLLER BEARING 30210	2
16	8.7.1.01107	DOUBLE LIP SEAL 50X90X10	1
17	0.139.7100.00	PROTECTIVE WASHER	1
18	8.4.7.01112	COTTER PIN B4X60	1
19	0.140.3003.00	SHAFT	1
20	0.139.7101.00	BLANK WASHER	1
21	0.140.7102.00	NUT M30X2	1
22	8.6.6.00201	PLUG 3/8"GAS	2
23	8.0.1.00870	BALL BEARING 6207	1
251	8.4.7.00146	COTTER PIN B6X60	1
252	8.6.7.00269	BREATHER PLUG 1/2"GAS	1



ltem	Part No	Description	Qty
1	0.292.3000.00		1
2	8.7.3.00081		2
3	8.5.2.01370		2
4	0.110.7500.00		2
5	8.0.9.00129		2
6	8.6.5.00006		4
7	0.292.0301.00		1
8	0.278.7103.00		1
9	0.272.6001.00		1
10	0.272.5001.00		1
11	0.350.7500.00		1
12	8.0.9.00469		2
13	8.6.7.00161		1
14	0.292.1310.00		1
15	8.7.3.01296		1
16	0.292.2001.00		1
17	8.1.1.00501		8
18	0.712.7525.00		1

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Product Registration Form

Please register your machine to ensure you get the correct warranty cover and service bulletins. Please provide your full postal address.

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Address *	
Address 1	
Address 2	
Address 2	



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