



# Operator Manual & Parts List

## MAJOR RANGE OF **TRAILED TOPPERS**

Models: 8FTGD-HD, 9FTGD-HD and  
12FTGDW-HD



**Head Office**

Major Equipment Intl. Ltd.  
Ballyhaunis,  
Co. Mayo,  
Ireland.

Tel.: +353 (0) 9496 30572  
Fax: +353 (0) 9496 30788  
Email: [info@major-equipment.com](mailto:info@major-equipment.com)

**UK Office**

Major Equipment Ltd.  
Major Industrial Estate,  
Middleton Rd.,  
Heysham,  
Lancs.  
LA3 3JJ

Tel.: +44 (0) 1524 850 501  
Fax: +44 (0) 1524 850 502  
Email: [ukinfo@major-equipment.com](mailto:ukinfo@major-equipment.com)

**NETHERLANDS & GERMANY OFFICE**

Major Equipment Intl. Ltd.  
Postbus 29,  
NL-7700 AA ,  
Dedemsvaart,  
Nederland.

Tel: +31 (0) 6389 19585  
Email: [euinfo@major-equipment.com](mailto:euinfo@major-equipment.com)

Web: [www.major-equipment.com](http://www.major-equipment.com)

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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.  
Address: Coolnaha,  
Ballyhaunis,  
Co. Mayo,  
Ireland.  
Tel. +353949630572  
Fax +353949630788

*declares in sole responsibility that the product:*

### **TRAILED TOPPER**

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 12/01/2012

# 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 Issues

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.

# 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.

We suggest that you record your machine details below:

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

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

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

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

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

## Product Specifications

| Model                                   | 8FTGD-HD       | 9TFGD-HD       | 12FTGDW-HD   |
|---|----------------|----------------|--------------|
| Overall Width (hitch eye to outer side) | 3.73m (12' 1") | 4.14m (13' 5") | 4.62m (15')  |
| Cut Width                               | 2.4m (8')      | 2.7m (9')      | 3.57m (12')  |
| Transport Width                         | 2.6m (8' 5")   | 2.9m (9' 5")   | 2.6m (8' 5") |
| No. of Blades                           | 8              | 8              | 12           |
| No. of Rotors                           | 2              | 2              | 3            |
| Power (HP)                              | 35 - 80        | 40 - 90        | 40 - 90      |
| PTO rpm                                 | 540            | 540            | 540          |
| Blade Speed                             | 228m/s         | 255m/s         | 228m/s       |
| Cutting Height                          | 12-205mm       | 12-205mm       | 12-205mm     |
| Weight                                  | 550kg          | 650kg          | 1240kg       |
| Tyre Pressure                           | 2 Bar          | 2 Bar          | 2 Bar        |
| Gearbox Oil                             | EP 90          | EP 90          | EP 90        |

# 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.

# 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 prevent Serious Injury or Death**

- 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.

To avoid injury, read the manual

Rotating blade hazard

**Fold PTO stand down before removing transport pin, otherwise PTO shaft will be damaged!**

Fold the PTO stand down before removing the transport pin to avoid PTO shaft damage

**WARNING**

**DO NOT GO NEAR LEAKS**

- High pressure oil easily punctures skin causing serious injury, gangrene or death.
- If injured, seek emergency medical help; immediate surgery is required to remove oil.
- Do not use finger or skin to check for leaks.
- Lower load or relieve hydraulic pressure before loosening fittings.

High oil pressure hazard

**WARNING**

**CHECK WHEEL BEARINGS AFTER THE FIRST 100 HOURS WORK AND TIGHTEN IF NECESSARY**

SEE MANUAL FOR SERVICE INTERVAL

Check the wheel bearings after the first 100 hours work and tighten if necessary.

**ATTENTION**

ENSURE PLATFORM INSTRUCTOR IS LOCKED IN PLACE DURING BOTH MOVING AND TRANSPORT POSITION.

**KEEP CLEAR WHEN RAISING & LOWERING HOIST.**

Moving parts hazard

PTO entanglement hazard - keep clear of PTO drives.

## Operating Safely

The MAJOR Trailed Topper is designed to operate at 540 RPM. Ensure tractor PTO output is set at 540 RPM. The MAJOR Topper must only be used for cutting grass. Moreover, it must only be used with a suitable tractor (see product specifications) and driven by an adequate drive-line by the tractor PTO. 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 ROTORS ARE TURNING. ROTORS CAN REMAIN TURNING FOR UP TO 1 MINUTE AFTER DISENGAGING PTO.**

## Workstation

The operator must remain seated while working the machine. When the wings need to be raised and lowered the operator must leave the tractor. Always ensure the PTO has been turned off and the parking brake applied before leaving the tractor cab. The operator must always apply the parking brake, and turn off the engine before leaving machine 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 manual, 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.

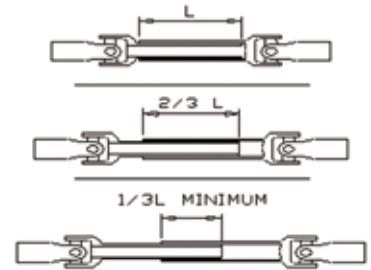
## PTO Shaft Safety

MAX PTO INPUT 540 R.P.M. 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.

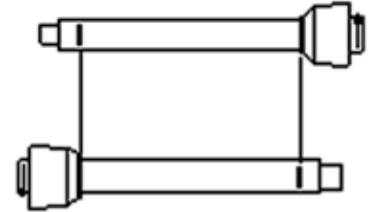
The tractor PTO shaft length may be altered to suit the individual tractor model. When the machine is in operation, the PTO shaft should have a minimum 1/3 engagement as shown in the diagrams. After the topper has been hitched to the tractor, it should be checked in various positions that the drive line 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:

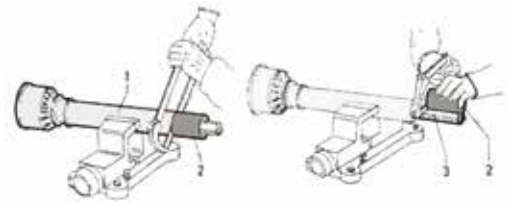
- Set the machine at a minimum distance from the tractor, then brake the tractor and switch off the engine.
- Separate the two halves of the PTO. Insert the female part into the tractor PTO and the male part into the topper PTO, checking that the position is correct by means of the fixing pins.



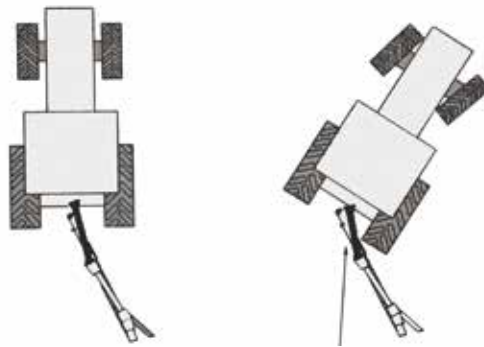
- Line up the two halves of the PTO together, keeping them parallel.
- Using a felt tip pen, match mark the place where the two halves must be shortened as shown.



- 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.



The shaft must not reach the end of the tube or project from this. Ensure the PTO does not bottom when turning



## Driving Safely on Public Roads



Check the local Highway Code regulations before driving the tractor on public highways with a towed implement. 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 30Km/Hr (18 MPH)

## 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 Mowers 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.' Rotary mower 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
- When shear bolt protection device in PTO shaft shears & the rotors 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**

Grass cutting 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 skirt or chain guard & the sides of the machine.

Bystanders or animals in the path of thrown objects could be seriously injured. Never operate machine with bystanders in the vicinity of the machine.

### **Hydraulic Hazard**

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:

- Slippery footing on the ground
- 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 was measured 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 - 90 dBA. In a loaded condition & a PTO rate of 540 rpm the obtained value was 97dBA.

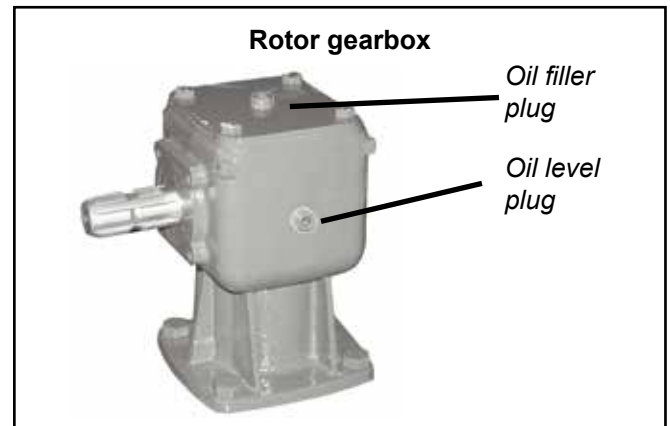
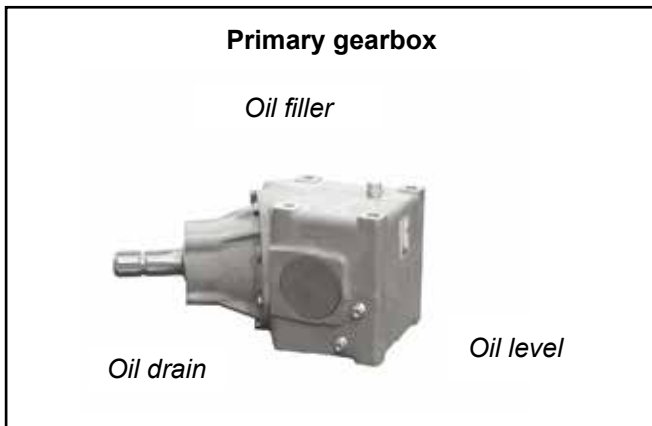
# Operating the Machine

## Inspections before Use

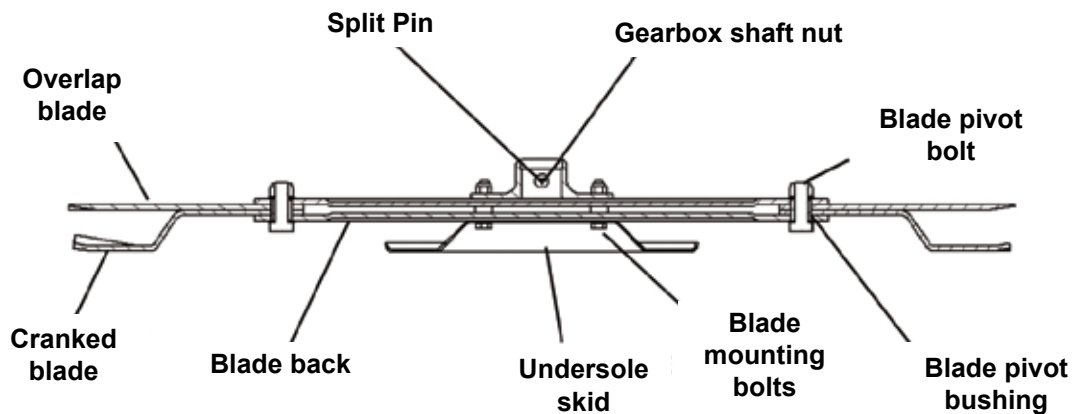


Always disengage PTO, Switch off tractor engine and engage the parking brake before making adjustments to the machine.

1. With the whole machine as level as possible, check the oil level in the Primary Gearbox, top up as required with SAE EP90 gear oil through the oil filler plug indicated. The correct level is at the oil level plug indicated. Check the oil level in the Rotor Gearboxes and top up as required with SAE EP 90 gear oil through the oil filler plugs indicated. The correct level is at the oil level plug indicated

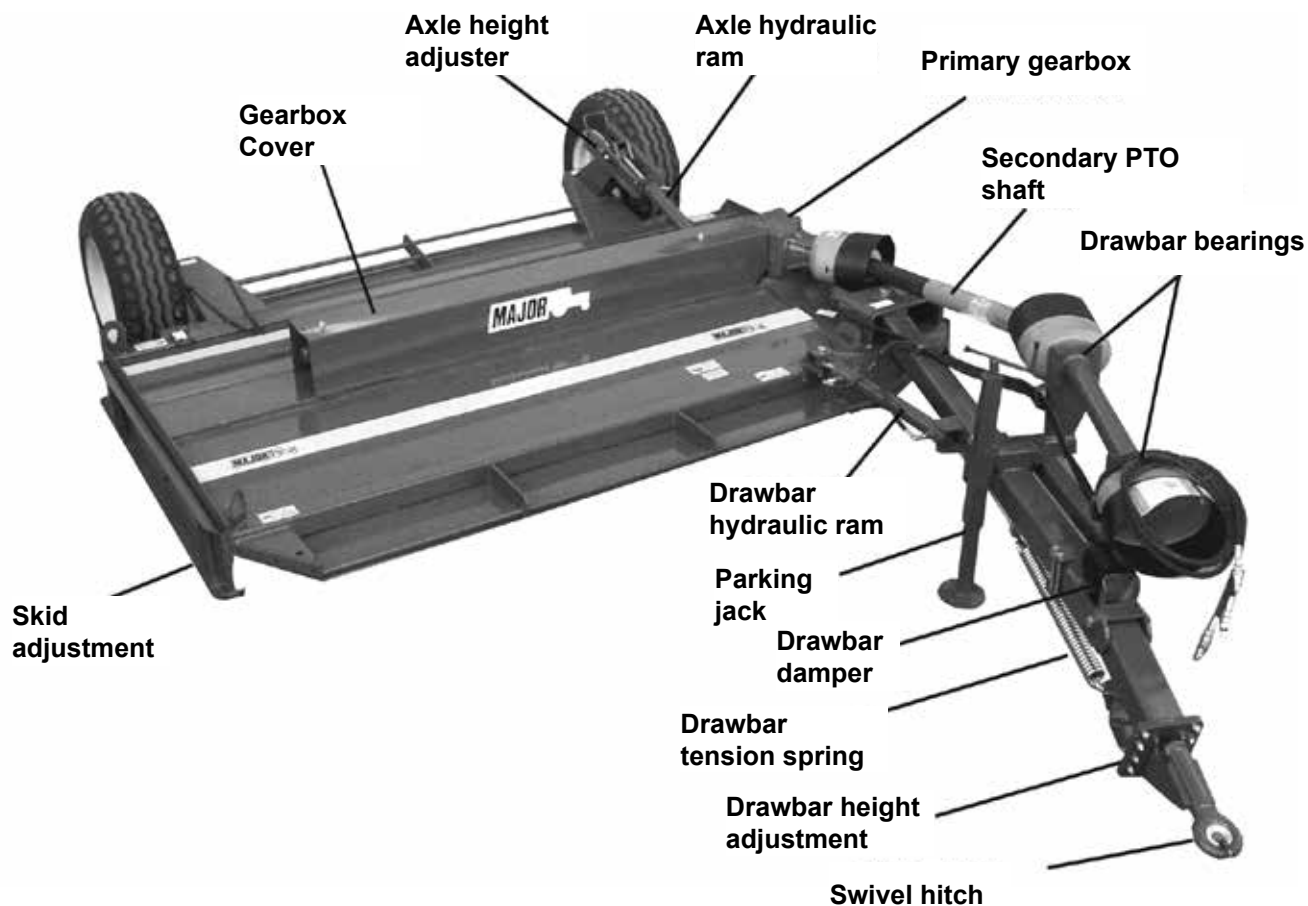


2. Grease the PTO shaft universal joints, drive shaft bearing and carrying arm pivots.
3. Re-sharpen old blades with a grindstone if necessary. Replace bent blades with new ones.
4. Check the blade mounting bolts are tight

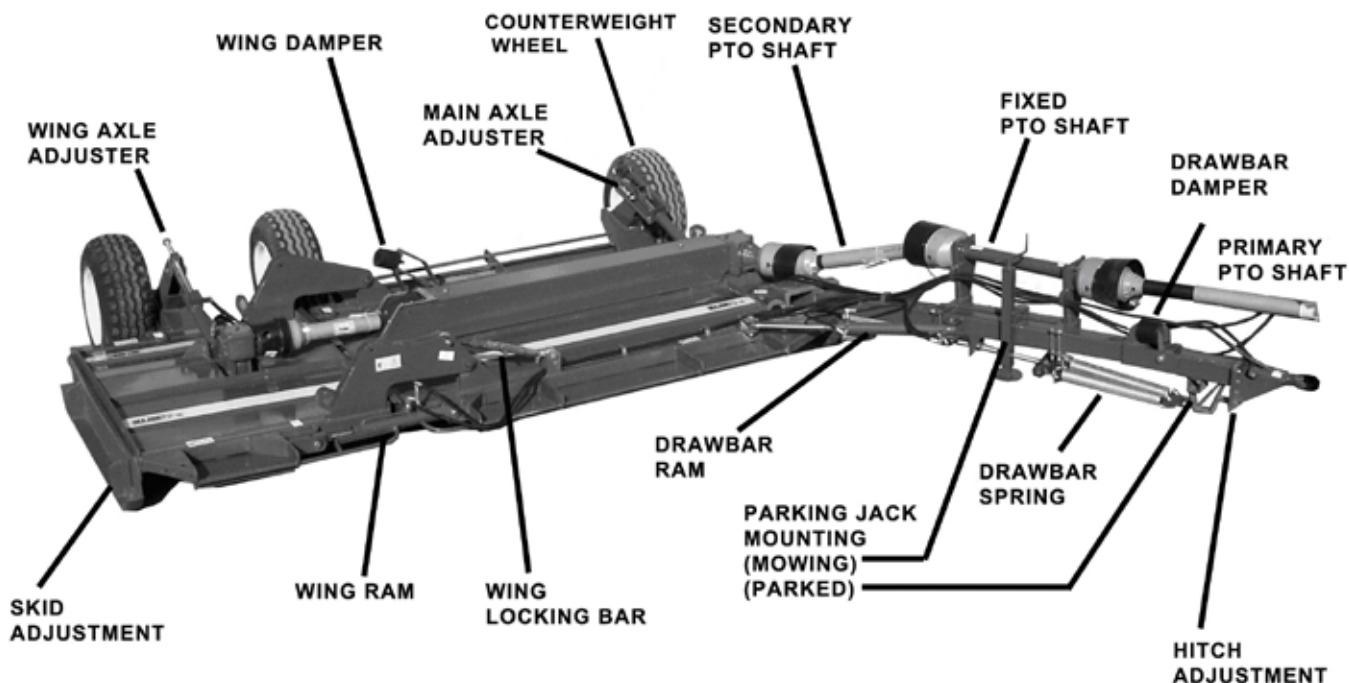


5. Ensure the gearbox shaft nuts are tight and retained in place by split pin.
6. Check tightness of all nuts, bolts and retaining screws after the first and second hours of work.
7. Ensure safety guards and flaps are in place at all times where fitted.
8. Due to the corrosive nature of grass when cut, wash down the machine when finished mowing, especially when the machine is being stored for a long period of time.

## Key to Main Parts 8FTGD-HD and 9FTGD-HD



## 12FTGDW-HD



## Starting Regulations

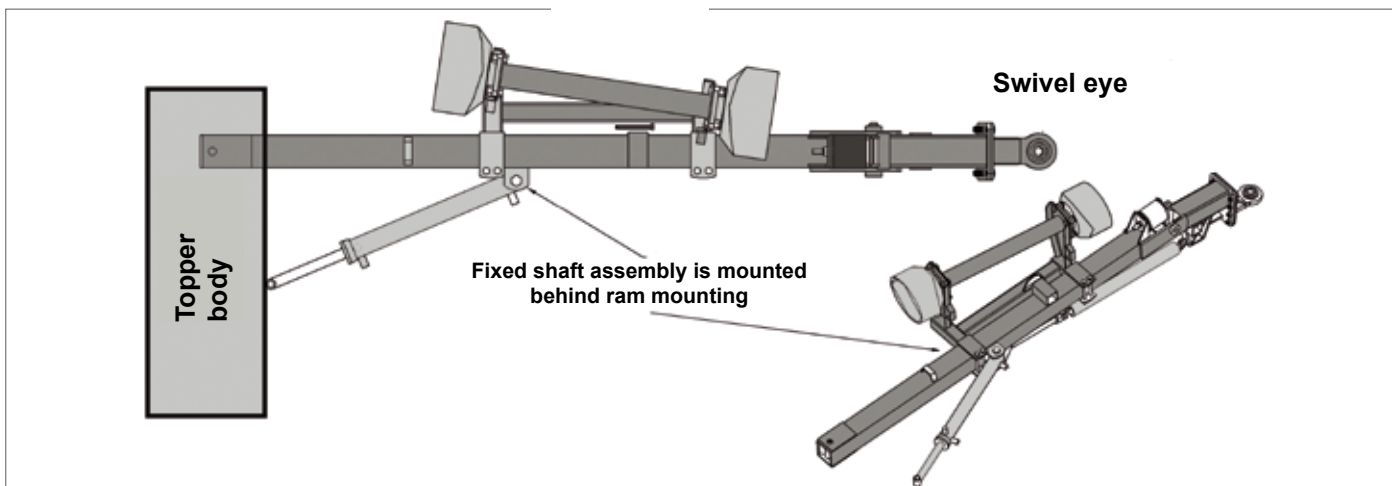


Always check that any imminently dangerous conditions have been eliminated before using the machine. Ensure all guarding is present & the operator is fully aware of the operations of the machine



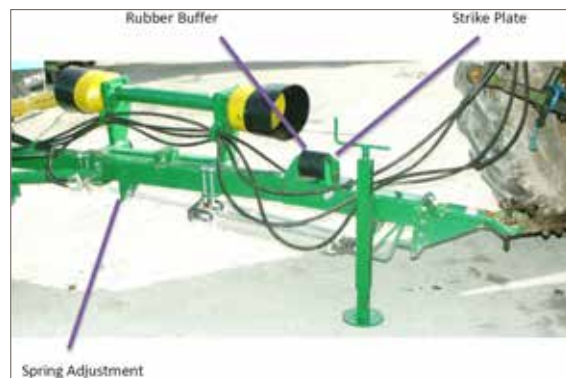
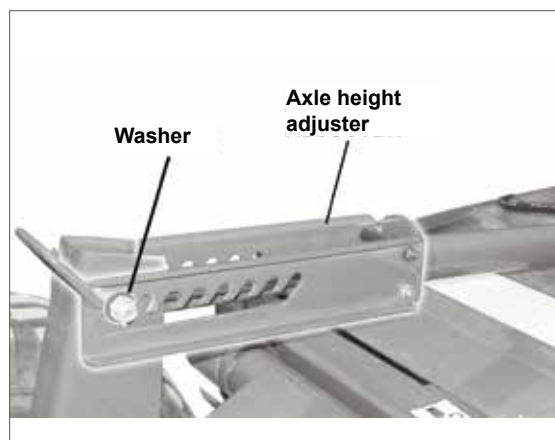
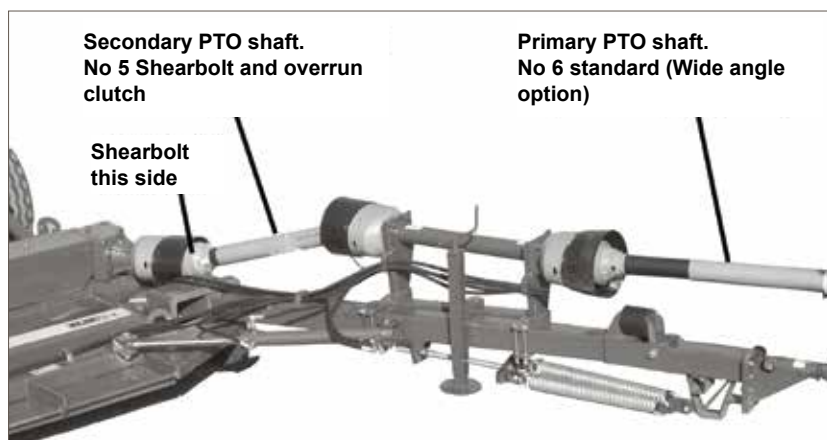
Always ensure the pins lock the PTO shaft yoke ends onto the spline shafts on both the tractor and the implement. An unlocked shaft could slip out of position, causing notable mechanical damage and serious injury to both operator and bystanders.

## Machine Set Up Overview



Side view

Axle stopper set up



Adjust the spring tension until the strike plate is cleared from the rubber buffer. The buffer should be clear of the strike plate by 4-6mm.  
The machine should be checked on level ground.

## Hitching to the Tractor



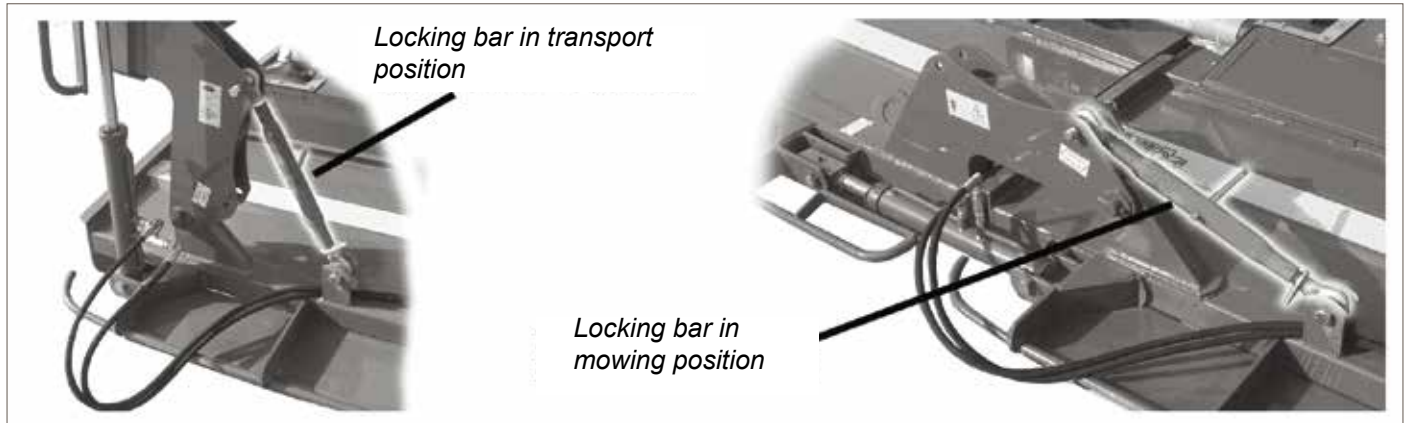
**ALWAYS OPERATE ON LEVEL GROUND WHEN HITCHING/UNHITCHING THE IMPLEMENT. THIS WILL PREVENT DANGEROUS MOVEMENT. NEVER ALLOW ANYONE TO STAND BETWEEN THE TRACTOR AND THE MACHINE.**

1. Reverse the tractor, connect the hitch & secure in position with correct size drawbar pin. Ensure the tractor parking brake is applied.
2. Adjust the hitch eye to suit the tractor drawbar height, paying particular attention to keep the bolts on the adjuster plate as spread as far as possible.
3. Connect the machine to the tractor, The drawbar spring adjuster should now be tensioned ensuring the front of the skids are raised approx 25mm (1") higher than the rear.
4. Before connecting the PTO shaft to the tractor, check for length as previously described in this manual.
5. Ensure PTO check chains are anchored to prevent PTO guarding from rotating.
6. Connect the hydraulic hoses to the appropriate connection.

## Transport Position

1. Check machine is hitched to the tractor as described on the previous page. Ensure the tractor parking brake is applied
2. Lift the body clear from the ground by activating the axle hydraulic ram
3. Transform the machine into transport position by hydraulic control. The Drawbar ram should be full closed. On the 1200T model, continue to hold the spool in this position & the wing will lift up into a vertical position.
4. Lock the wing into transport position & retain pin with clip (1200T model only)
5. Adjust the axle height stopper to the highest position.
6. Operate the tractor hydraulics to pull in the wing ram

## 1200T transport locking bar locations



## Mowing Position

1. Check machine is hitched to the tractor as described. Ensure the tractor parking brake is applied.
2. Ensure the body is clear from the ground by activating the axle hydraulic ram.
3. Transform the machine into mowing position by hydraulic control.
4. 800T and 900T models sequence: The drawbar ram will push out the cutting deck fully into operating position.
5. 1200T model sequence: The wing will drop first fully to the ground. Continue to hold the spool in position and the drawbar ram will push out the body into mowing position.
6. Lock the wing into mowing position & retain pin with clip (1200T only).
7. Adjust the axle height stopper to the desired position. On the 1200T model adjust the threaded bar to equalise the machine.
8. Operate the tractor hydraulics on the axle spool to lower the body against the axle stops.

## Operating the Machine/Mowing



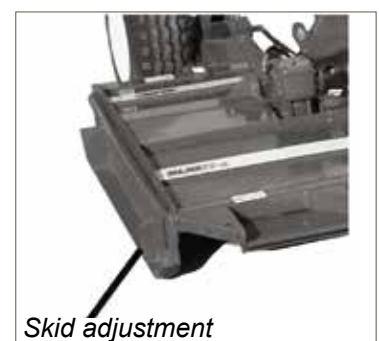
Never place limbs under the machine while rotors are turning. Rotors can remain turning for up to 1 minute after disengaging PTO. Ensure drawbar ram is fully extended before operating PTO. This MAJOR topper is designed to operate at 540 RPM. Ensure tractor PTO output is set at 540 RPM.

1. Ensure the machine is hitched correctly to the tractor as previously described.
2. Ensure bystanders are clear from the machine & cannot be hit with debris expelled from the machine.
3. Ensure cutting decks are lowered to the ground.
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.

## Adjusting the skids and cutting height

Adjust the skids by:

1. Lifting the machine and removing the four skid retaining bolts
2. Relocate the skid to the desired height
3. The axle stop should now be adjusted, it should be set to that the wheels are taking as much weight as possible while the skids are maintaining ground contact.

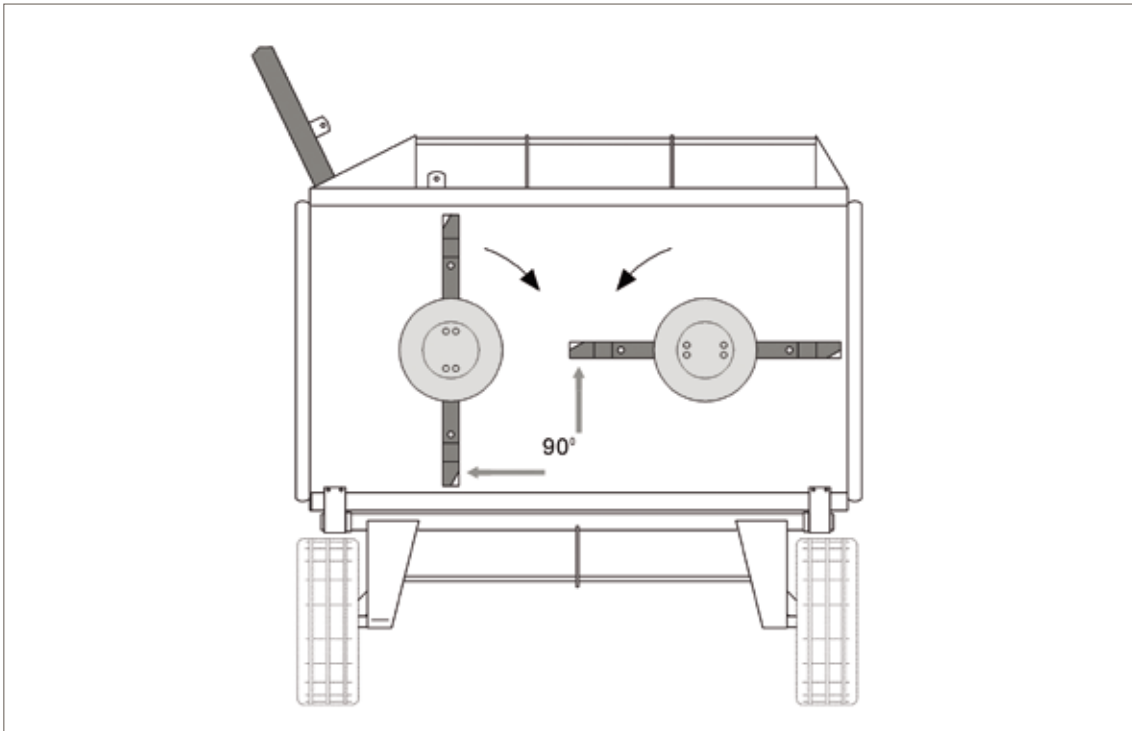




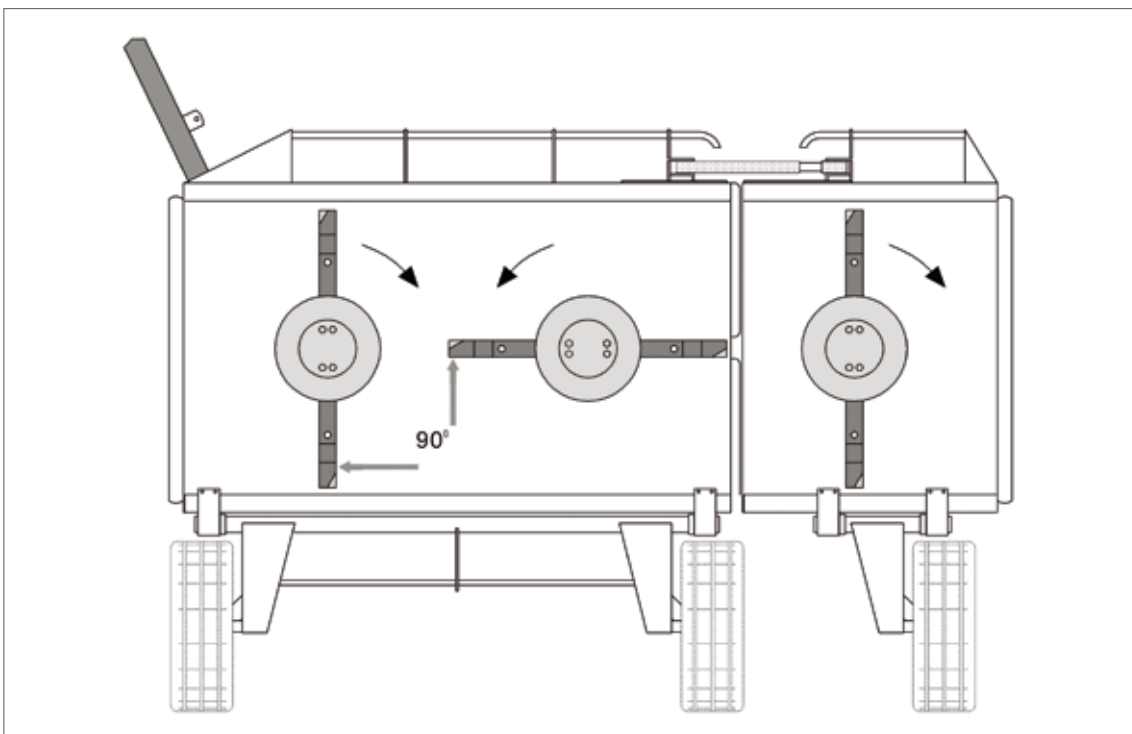
## Blade Rotations

Blades must always be timed at at 90 degrees to each other. Failure to do so can cause the blades to foul and in turn may damage the transmission.

### MAJOR 8FTGD & 9FTGD blade rotation



### MAJOR 12FTGDW blade rotation



# 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

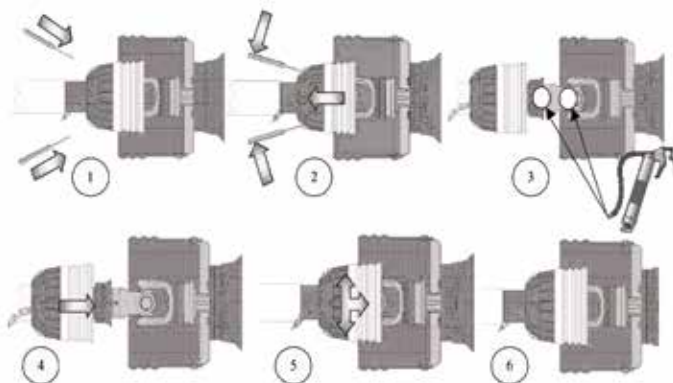
If emergency operations are required whilst the machine is connected to the tractor, switch off the engine, engage the parking brake and disengage the PTO.

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

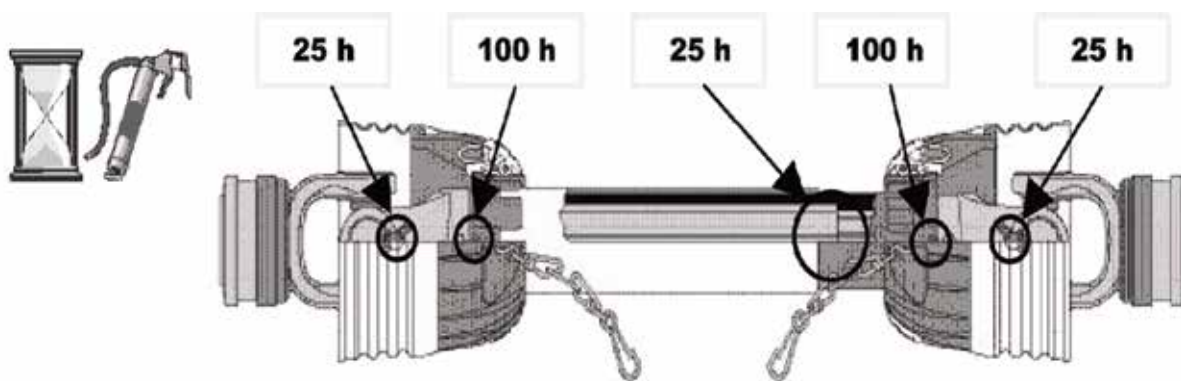
## PTO Shaft Maintenance

### 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



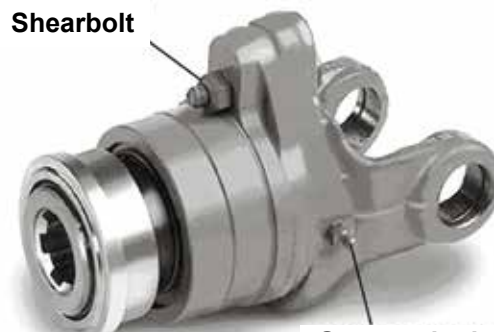
## Shearbolt Replacement

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 MAJOR replacement shear bolts. M8X50 BZP -8.8)
4. Slide yoke shield securely in place



Fit PTO shaft with the shearbolt end connected to the Topper as directed on the PTO guarding.

Shearbolt



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

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

NOTE: ENSURE BLADE ROTATION AND TIMING IS CORRECT AFTER SERVICING TRANSMISSION.

## Maintenance Schedule

Grease the following:

|                             | INITIALLY | 8 HOURS |
|-----------------------------|-----------|---------|
| PTO Shaft Yoke Ends (8)     | ●         | ●       |
| Drawbar drive bearings (12) | ●         | ●       |
| Drawbar pivot (1)           | ●         | ●       |
| Axle pivot (2)              | ●         | ●       |
| 1200T only                  |           |         |
| Wing pivots (2)             | ●         | ●       |
| Wing axle (2)               | ●         | ●       |

## Trouble Shooting

| 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  |
|   | 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 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 |
| Gearbox overheating   | Low on lubricant  | Fill to proper level   |
|   | Improper type lubricant   | Replace with proper lubricant  |
|   | Excessive grass / debris build-up around gearbox                            | Remove grass, etc from machine   |
| Blade is scalping ground  | Mower too low   | Raise mower-reset wheels   |
|   | 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   |
| 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 and reset wheels   |
|   | Worn or dull blades   | Sharpen or replace blades  |
|   | Tractor not large enough  | Use larger horsepower tractor  |

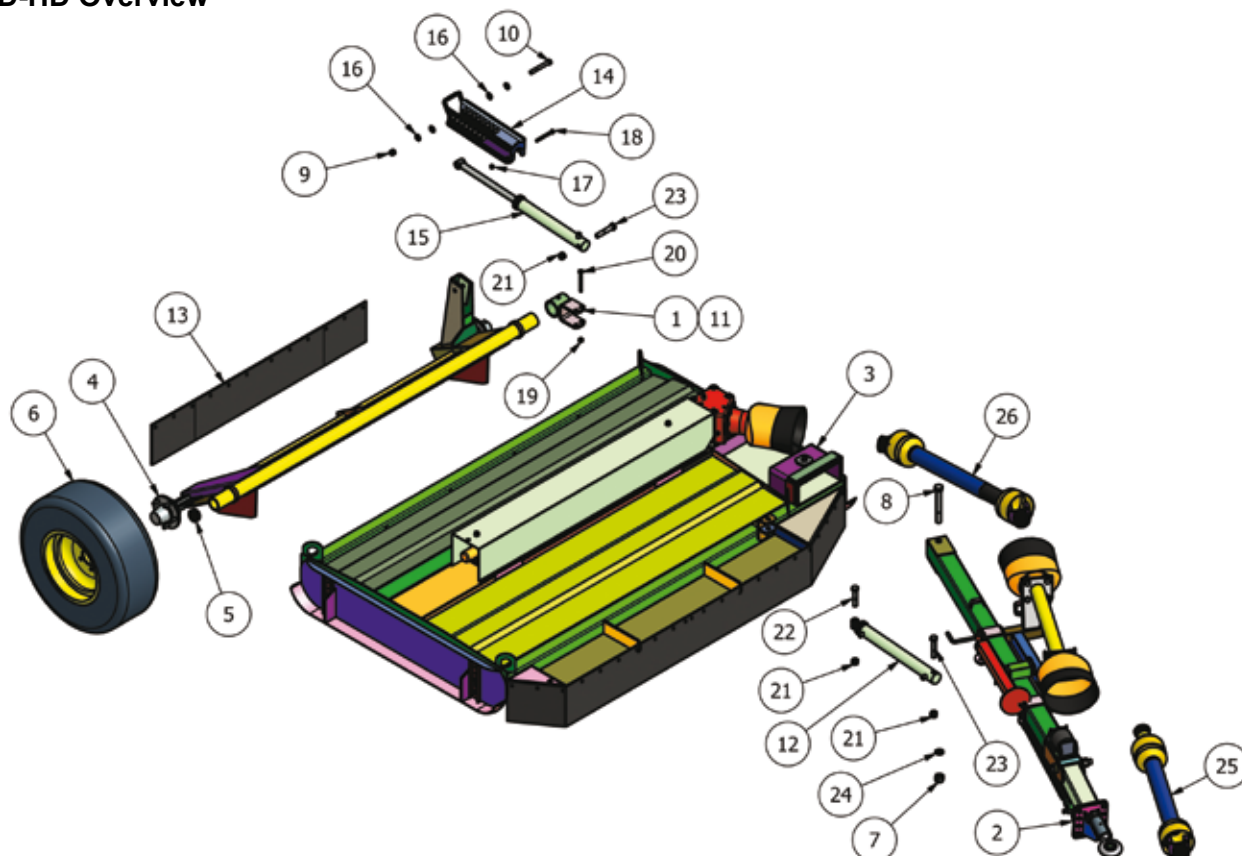


| <b>Fault</b>        | <b>Cause</b>   | <b>Remedy</b>   |  |
|---------------------|--|---|--|
| Excessive vibration | Check gearbox bolts  | Tighten if loose  |  |
|                     | Check for loose nuts on blades   | Tighten if loose  |  |
|                     | Blade broken   | Replace blades, 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                 |  |
| Noisy machine       | Worn bearing   | Replace bearings  |  |
|                     | Low oil in gearbox   | Check level and add oil                                   |  |
|                     | Loose Parts  | Check all bolts are fully tightened                       |  |
|                     | Wrong PTO rpm rate   | Check PTO rate & adjust as necessary                      |  |
|                     | Rotors bent / broken   | Replace bent or missing blades                            |  |
|                     | Bent PTO shaft   |   | Check PTO shafts are aligned correctly       |
|                     |  |   | Check output shaft on gearboxes are not bent |
|                     |  | Check driveline between gearboxes is aligned.             |  |
| Gearbox 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                                 |  |
|                     | Hole in gearbox  | Replace the gearbox                                       |  |
|                     | Gasket damaged   | Replace gasket  |  |
|                     | Bolts loose  | Tighten bolts   |  |

# Spare Parts

## 8FTGD-HD, 9FTGD-HD and 12FTGDW Trailed Toppers

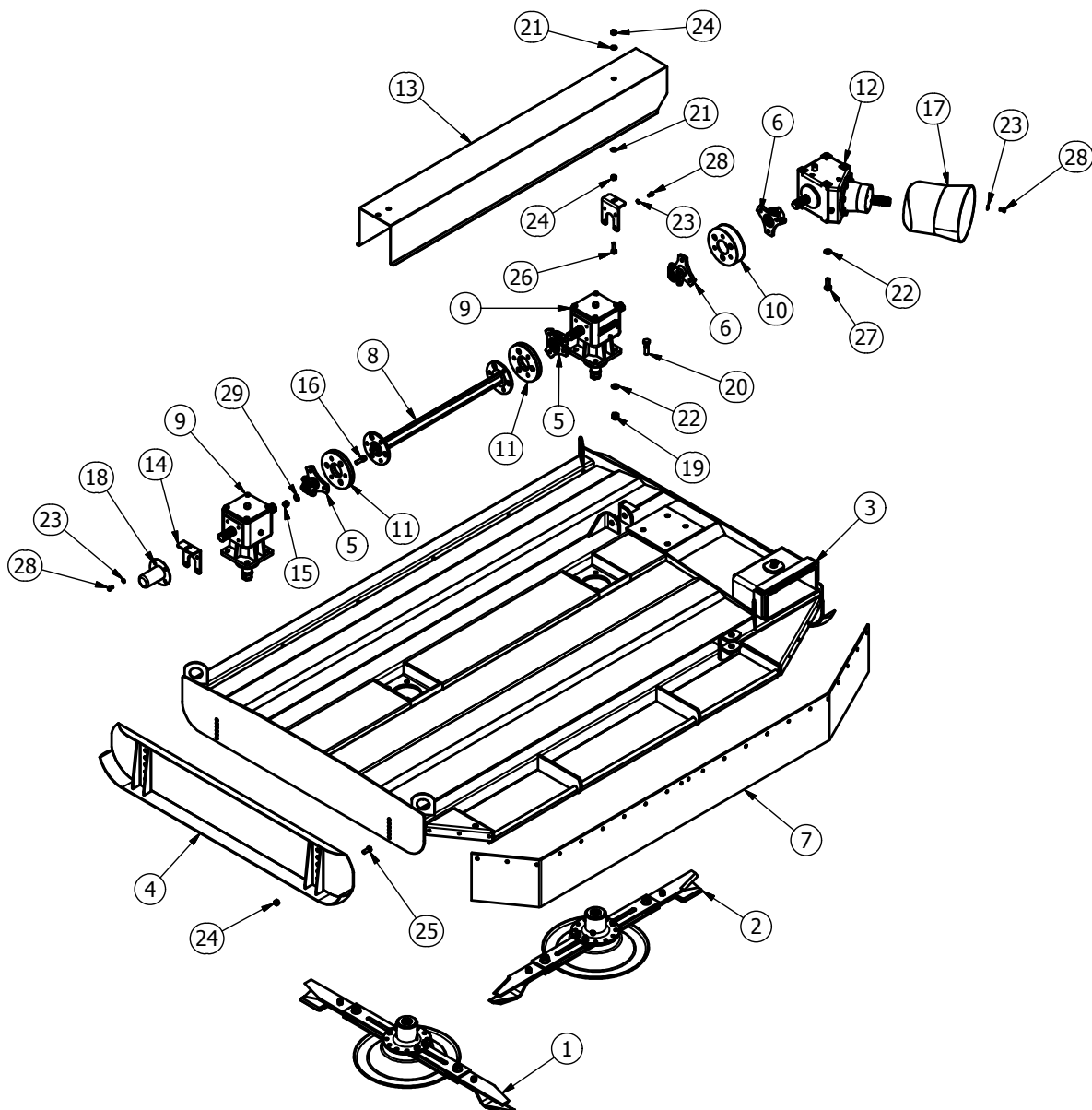
### 8FTGD-HD Overview



| Item | Part No   | Description            | Qty |
|------|-----------|------------------------|-----|
| 1    | 8T12      | AXLE CLAMP             | 2   |
| 2    | 8TD-GA    | 8/9 TRAILED DRAWBAR    | 1   |
| 3    | 8TGTB-GA  | 800T BODY ASSEMBLY     | 1   |
| 4    | 9TGT-A-1  | TRAILED AXLE FAB       | 1   |
| 5    | 199269    | DIA 57.5-61.5mm INSERT | 2   |
| 6    | 10X153WH  | WHEEL DIA 760x274mm    | 2   |
| 7    | 1/F       | 1" NYLOC NUT           | 3   |
| 8    | 1x8FBZP   | 1"x8" FINE BOLT        | 1   |
| 9    | 5/8F      | 5/8" FINE NYLOC NUT    | 1   |
| 10   | 58x5FBZP  | 5/8"x5" FINE BOLT      | 1   |
| 11   | 820       | GREASE NIPPLE 1/8" STR | 2   |
| 12   | 8TD-RAM_B | DRAWBAR RAM BODY       | 1   |
| 13   | 9TSKR     | 900T SKIRT             | 1   |

|    |                 |                         |   |
|----|-----------------|-------------------------|---|
| 14 | 9TGT-AP1        | TOPPER HEIGHT SET       | 1 |
| 15 | 9TGT-A-R1N      | AXLE RAM BODY           | 1 |
| 16 | DSW16           | DISC SPRING 34x16.3x2.0 | 4 |
| 17 | M10             | M10 NYLOC NUT           | 2 |
| 18 | M10x110BZP      | M10x110 BOLT            | 2 |
| 19 | M12             | M12 NYLOC NUT           | 4 |
| 20 | M12x120BZP      | M12x120 BOLT            | 4 |
| 21 | M20             | M20 NYLOC NUT           | 3 |
| 22 | M20x100BZP      | M20x100 BOLT            | 1 |
| 23 | M20x110BZP      | M20x110 BOLT            | 2 |
| 24 | SW1             | 1" SPRING WASHER        | 1 |
| 25 | T600810ENC12RB2 | T60 SHEAR BOLT O/R      | 1 |
| 26 | V600860ENC12C12 | COLLAR-COLLAR PTO       | 1 |

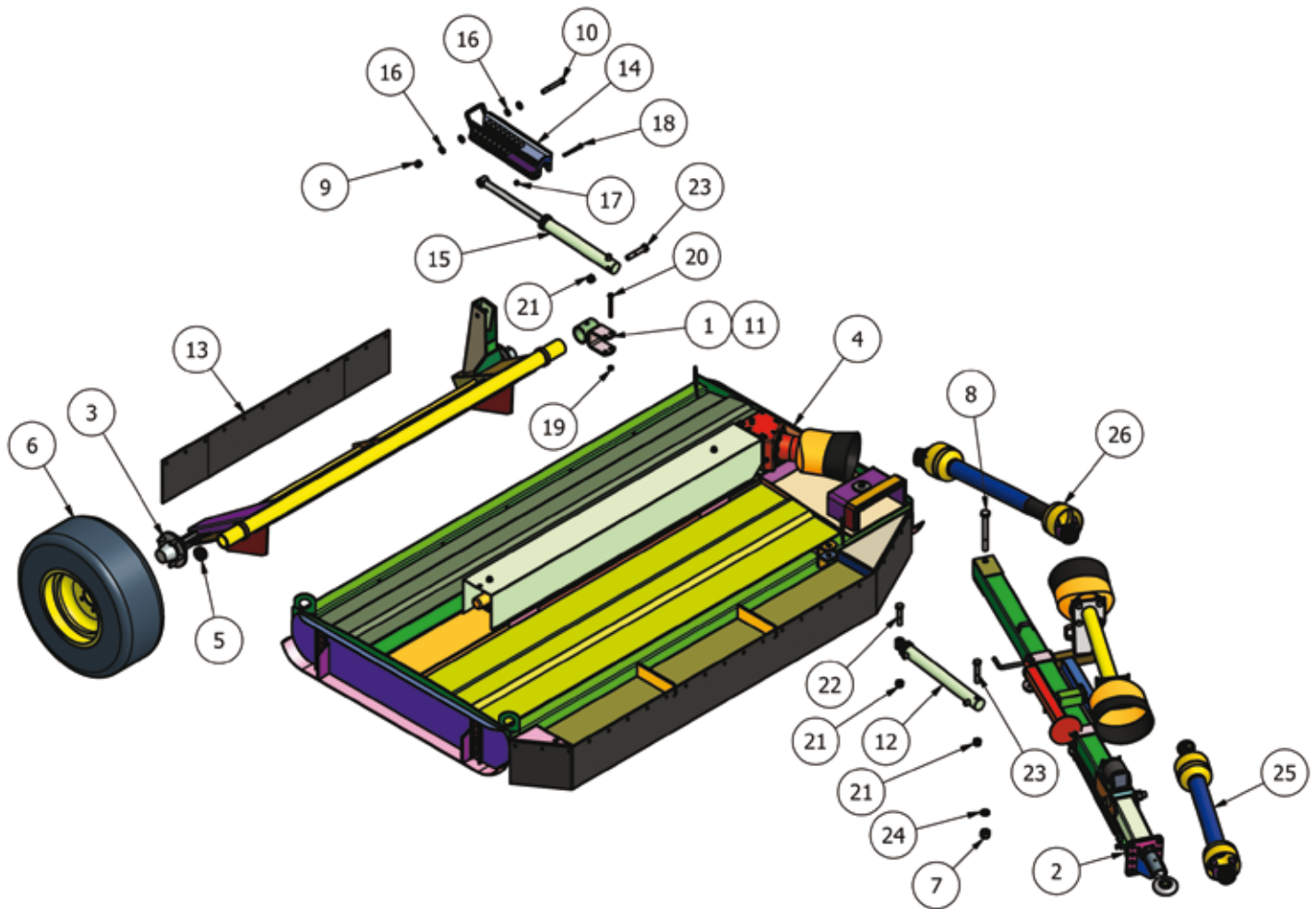
# 8FTGD-HD Body



| Item | Part No     | Description                   | Qty |
|------|-------------|-------------------------------|-----|
| 1    | 1239V2-D-BL | 1239 BLADE (Anti_Clk)         | 1   |
| 2    | 1239V2-D-BR | 1239 BLADE (Clk)              | 1   |
| 3    | 8TGTB-001   | 800T BODY FAB                 | 1   |
| 4    | SLH16AS     | SKID (OFFSET)                 | 2   |
| 5    | 60CSD       | 60mm STAR DRIVE               | 2   |
| 6    | 8SM-18      | 6 SPLINE STAR DRIVE           | 2   |
| 7    | 8SM-30      | 800SM SKIRT                   | 1   |
| 8    | DRV-RC-800T | 800T DRIVE                    | 1   |
| 9    | MJ40T       | 6 SPLINE 'T' BOX (347801)1.47 | 2   |
| 10   | MJRC-113    | 113 PCD RUBBER COUPLING       | 1   |
| 11   | MJRC-23     | 113 PCD COUPLING 4mm PLT      | 2   |
| 12   | T291A       | 6 SPLINE 'ANG' RATIO 1.35     | 1   |
| 13   | 8TGT-3      | 800T GEARBOX COVER            | 1   |
| 14   | 9TGT-CB     | GEARBOX COVER BRKT            | 2   |
| 15   | 12HEX109    | 1/2F HEX 10.9                 | 18  |

|    |             |                                   |    |
|----|-------------|-----------------------------------|----|
| 16 | 12x112FSKS  | 1/2"x1 1/2" FINE SOCKET HEAD 12.9 | 18 |
| 17 | 190.000.545 | PTO GUARD (EXTENDED OVAL)         | 1  |
| 18 | 190592      | PTO HAT                           | 1  |
| 19 | 5/8F        | 5/8" FINE NYLOC NUT               | 8  |
| 20 | 58x214FBZP  | 5/8"x2 1/4" FINE BOLT             | 8  |
| 21 | FWM12       | M12 FLAT WASHER                   | 4  |
| 22 | FWM16       | M16 FLAT WASHER                   | 12 |
| 23 | FWM8        | M8 FLAT WASHER                    | 8  |
| 24 | M12         | M12 NYLOC NUT                     | 12 |
| 25 | M12x30SZP   | M12x30 SET BOLT                   | 8  |
| 26 | M12x40SZP   | M12x40 SET BOLT                   | 2  |
| 27 | M16x40SZP   | M16x40 SET BOLT                   | 4  |
| 28 | M8x16SZP    | M8x16 SET BOLT                    | 8  |
| 29 | NL12SP      | M12 SP NORDLOCK                   | 18 |

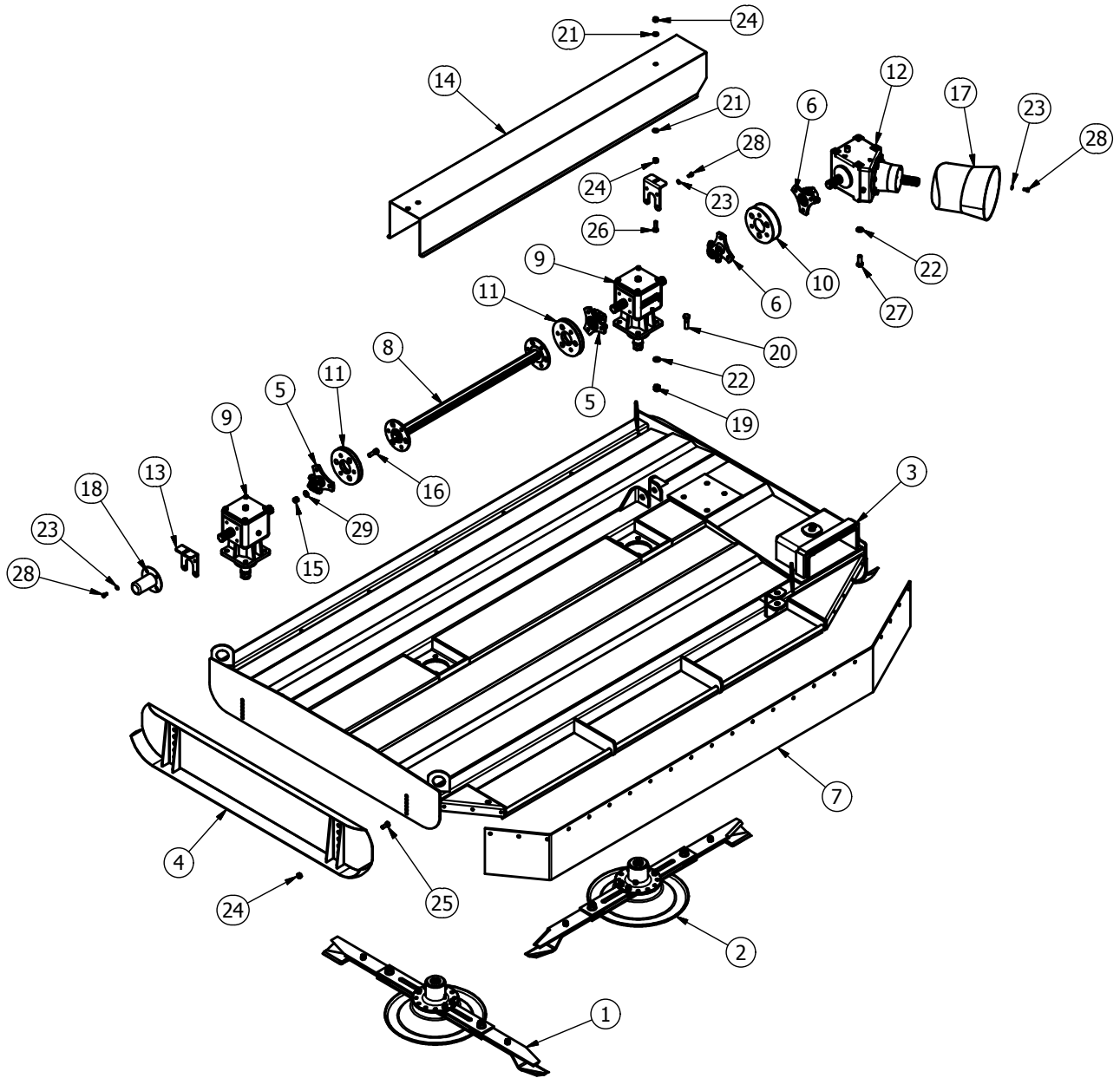
## 9FTGD-HD Grass Topper Overview



| Item | Part No   | Description            | Qty |
|------|-----------|------------------------|-----|
| 1    | 8T12      | AXLE CLAMP             | 2   |
| 2    | 8TD-GA    | 8/9 TRAILED DRAWBAR    | 1   |
| 3    | 9TGTA-1   | TRAILED AXLE FAB       | 1   |
| 4    | 9TGTB-GA  | 900T BODY ASSEMBLY     | 1   |
| 5    | 199269    | DIA 57.5-61.5mm INSERT | 2   |
| 6    | 10X153WH  | WHEEL DIA 760x274mm    | 2   |
| 7    | 1/F       | 1" FINE NYLOC NUT      | 1   |
| 8    | 1x8FBZP   | 1"x8" FINE BOLT        | 1   |
| 9    | 5/8F      | 5/8" FINE NYLOC NUT    | 1   |
| 10   | 58x5FBZP  | 5/8"x5" FINE BOLT      | 1   |
| 11   | 820       | GREASE NIPPLE 1/8" STR | 2   |
| 12   | 8TD-RAM_B | DRAWBAR RAM BODY       | 1   |
| 13   | 9TSKR     | 900T SKIRT             | 1   |

|    |                 |                         |   |
|----|-----------------|-------------------------|---|
| 14 | 9TGT-AP1        | TOPPER HEIGHT SET       | 1 |
| 15 | 9TGTA-R1N       | AXLE RAM BODY           | 1 |
| 16 | DSW16           | DISC SPRING 34x16.3x2.0 | 4 |
| 17 | M10             | M10 NYLOC NUT           | 2 |
| 18 | M10x110BZP      | M10x110 BOLT            | 2 |
| 19 | M12             | M12 NYLOC NUT           | 4 |
| 20 | M12x120BZP      | M12x120 BOLT            | 4 |
| 21 | M20             | M20 NYLOC NUT           | 3 |
| 22 | M20x100BZP      | M20x100 BOLT            | 1 |
| 23 | M20x110BZP      | M20x110 BOLT            | 2 |
| 24 | SW1             | 1" SPRING WASHER        | 1 |
| 25 | T600810ENC12RB2 | T60 SHEAR BOLT O/R      | 1 |
| 26 | V600860ENC12C12 | COLLAR-COLLAR PTO       | 1 |

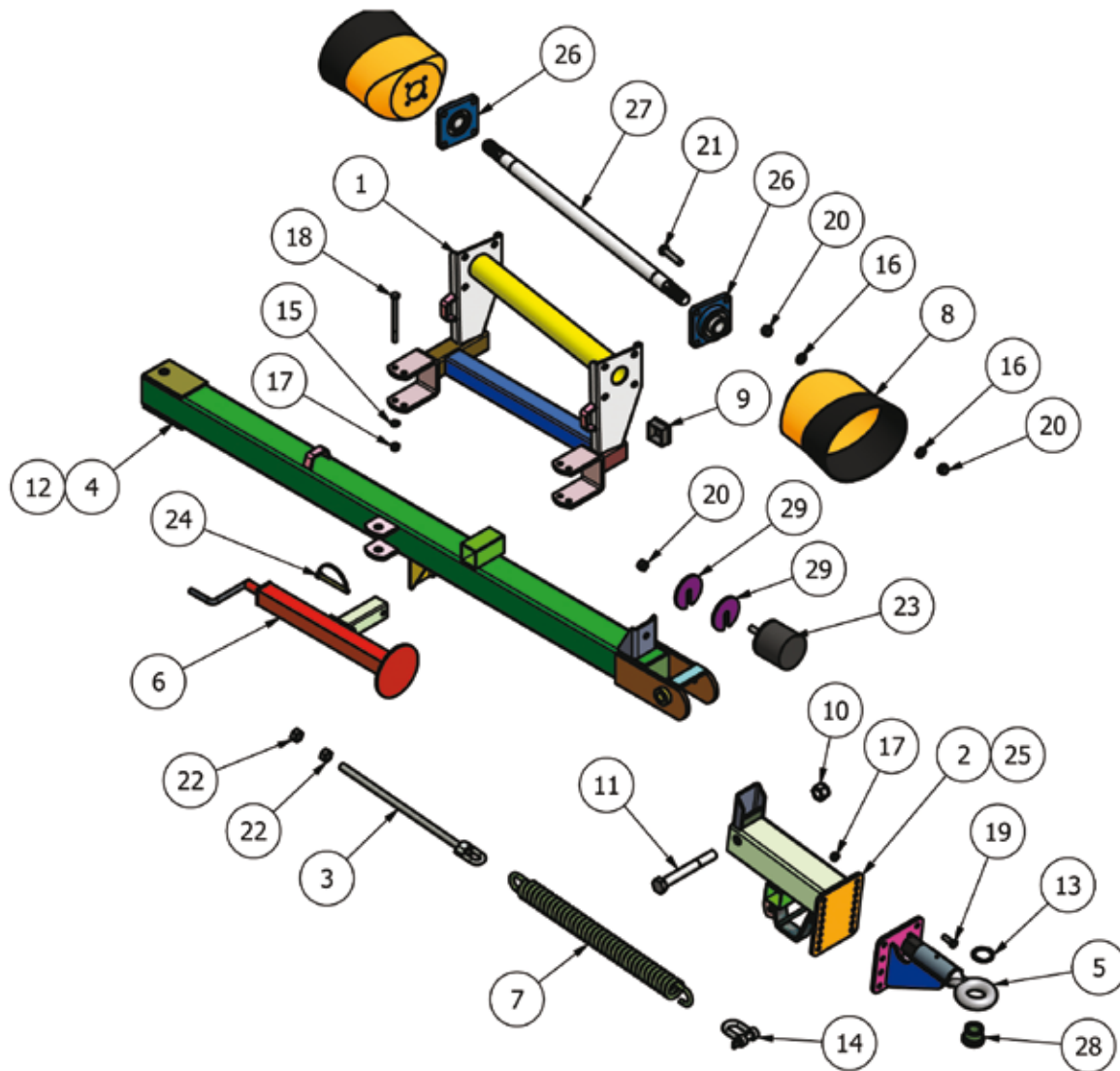
# 9FTGD-HD Body Assembly



| Item | Part No     | Description                    | Qty |
|------|-------------|--------------------------------|-----|
| 1    | 1385V3-D-BL | 1385 BLADE (Anti_Clk)          | 1   |
| 2    | 1385V3-D-BR | 1385 BLADE (Clk)               | 1   |
| 3    | 9TGTB-01    | 900T BODY FAB                  | 1   |
| 4    | SLH16AS     | SKID (OFFSET)                  | 2   |
| 5    | 60CSD       | 60mm STAR DRIVE                | 2   |
| 6    | 8SM-18      | 6 SPLINE STAR DRIVE            | 2   |
| 7    | 9T-SKF      | 900T SKIRT                     | 1   |
| 8    | DRV-RC-900T | 900T DRIVE                     | 1   |
| 9    | MJ40T       | 6 SPLINE 'T' BOX (347801) 1.47 | 2   |
| 10   | MJRC-113    | 113 PCD RUBBER COUPLING        | 1   |
| 11   | MJRC-23     | 113 PCD COUPLING 4mm PLT       | 2   |
| 12   | T291A       | 6 SPLINE 'ANG' RATIO 1.35      | 1   |
| 13   | 9TGT-CB     | GEARBOX COVER BRKT             | 2   |
| 14   | 9TGT-C-3    | 900T GEARBOX COVER             | 1   |

|    |             |                                   |    |
|----|-------------|-----------------------------------|----|
| 15 | 12HEX109    | 1/2F HEX 10.9                     | 18 |
| 16 | 12x112FSKS  | 1/2"x1 1/2" FINE SOCKET HEAD 12.9 | 18 |
| 17 | 190.000.545 | PTO GUARD (EXTENDED OVAL)         | 1  |
| 18 | 190592      | PTO HAT                           | 1  |
| 19 | 5/8F        | 5/8" FINE NYLOC NUT               | 8  |
| 20 | 58x214FBZP  | 5/8"x2 1/4" FINE BOLT             | 8  |
| 21 | FWM12       | M12 FLAT WASHER                   | 4  |
| 22 | FWM16       | M16 FLAT WASHER                   | 12 |
| 23 | FWM8        | M8 FLAT WASHER                    | 8  |
| 24 | M12         | M12 NYLOC NUT                     | 12 |
| 25 | M12x30SZP   | M12x30 SET BOLT                   | 8  |
| 26 | M12x40SZP   | M12x40 SET BOLT                   | 2  |
| 27 | M16x40SZP   | M16x40 SET BOLT                   | 4  |
| 28 | M8x16SZP    | M8x16 SET BOLT                    | 8  |
| 29 | NL12SP      | M12 SP NORDLOCK                   | 18 |

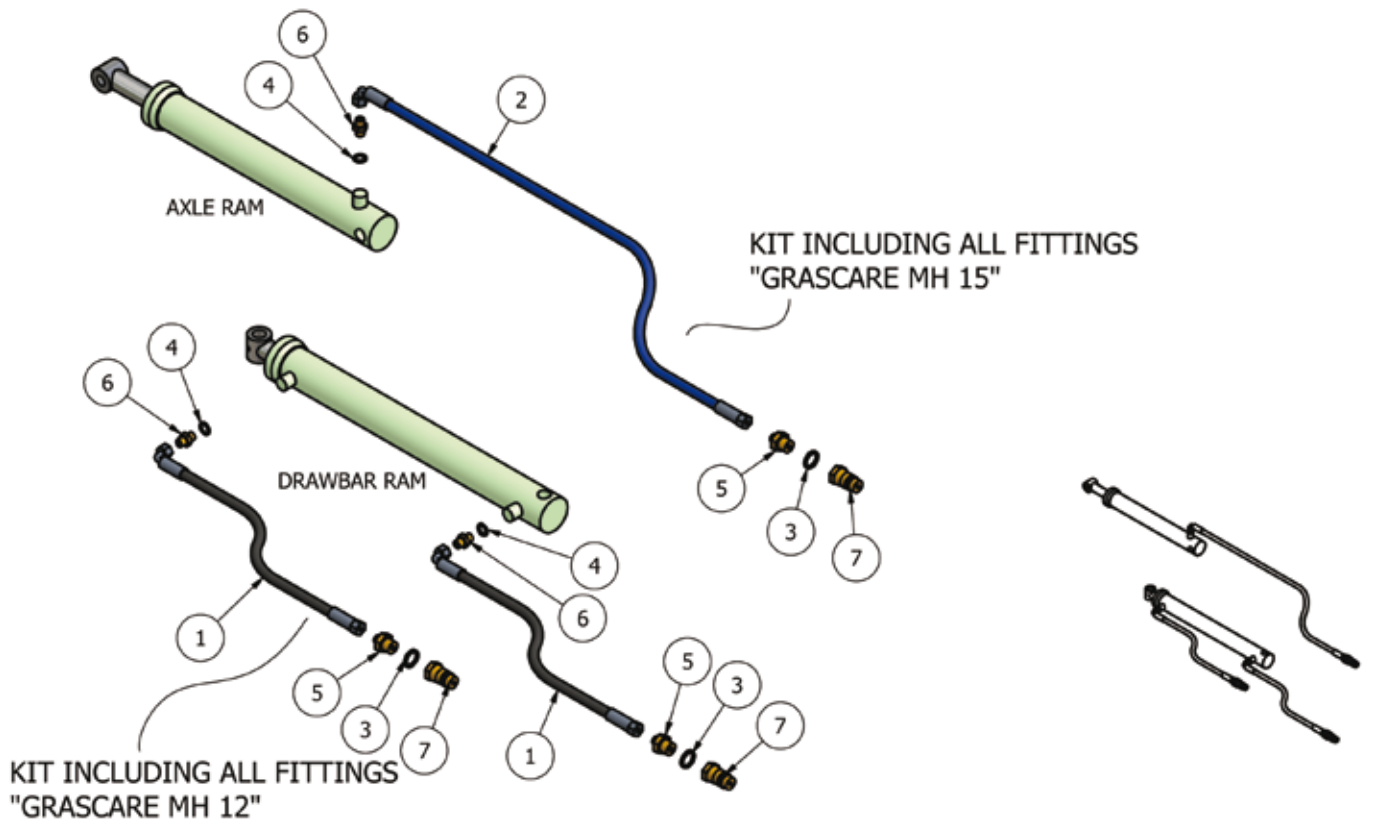
## 8FTGD-HD and 9FTGD-HD Drawbar



| Item | Part No     | Description               | Qty |
|------|-------------|---------------------------|-----|
| 1    | 894T        | DUMMY SHAFT MOUNT         | 1   |
| 2    | 8T-AD1      | DRAWBAR HINGE             | 1   |
| 3    | 8T20        | SPRING TENSIONER          | 1   |
| 4    | 8T3         | DRAWBAR FAB               | 1   |
| 5    | RTE-01      | ROTARY HITCH EYE          | 1   |
| 6    | TT-JACK     | TOPPER JACK               | 1   |
| 7    | 12MB2S      | DRAWBAR SPRING            | 1   |
| 8    | 190.000.545 | PTO GUARD (EXTENDED OVAL) | 2   |
| 9    | 199211      | SQ 52-54mm INSERT (POL)   | 2   |
| 10   | 1F          | 1" FINE NYLOC NUT         | 1   |
| 11   | 1x8FBZP     | 1"x8" FINE BOLT           | 1   |
| 12   | 820         | GREASE NIPPLE 1/8" STR    | 1   |
| 13   | AGC2        | DIA 50 EXT HEAVY CIRCLIP  | 1   |
| 14   | EW29A       | 5/8" "D" SHACKLE          | 1   |
| 15   | FWM12       | M12 FLAT WASHER           | 4   |

|    |            |                       |    |
|----|------------|-----------------------|----|
| 16 | FWM16      | M16 FLAT WASHER       | 16 |
| 17 | M12        | M12 NYLOC NUT         | 12 |
| 18 | M12x150BZP | M12x150 BOLT          | 4  |
| 19 | M12x35BZP  | M12x35 BOLT           | 8  |
| 20 | M16        | M16 NYLOC NUT         | 17 |
| 21 | M16x70SZP  | M16x70 SET BOLT       | 8  |
| 22 | M20HEX     | M20 PLAIN NUT         | 2  |
| 23 | MOT10      | DIA 105x100 BUFFER    | 1  |
| 24 | S272       | SHAFT LOCK PIN DIA 11 | 1  |
| 25 | S840       | GREASE NIPPLE 1/8"x45 | 1  |
| 26 | SF1-12     | DIA 1 1/2" FLANGE BRG | 2  |
| 27 | 8T1-3      | DUMMY SHAFT           | 1  |
| 28 | TDD-TEB    | TOE EYE BUSH          | 1  |
| 29 | 8T19       | BUFFER SPACER         | 2  |

## 8FTGD-HD and 9FTGD-HD Hydraulics

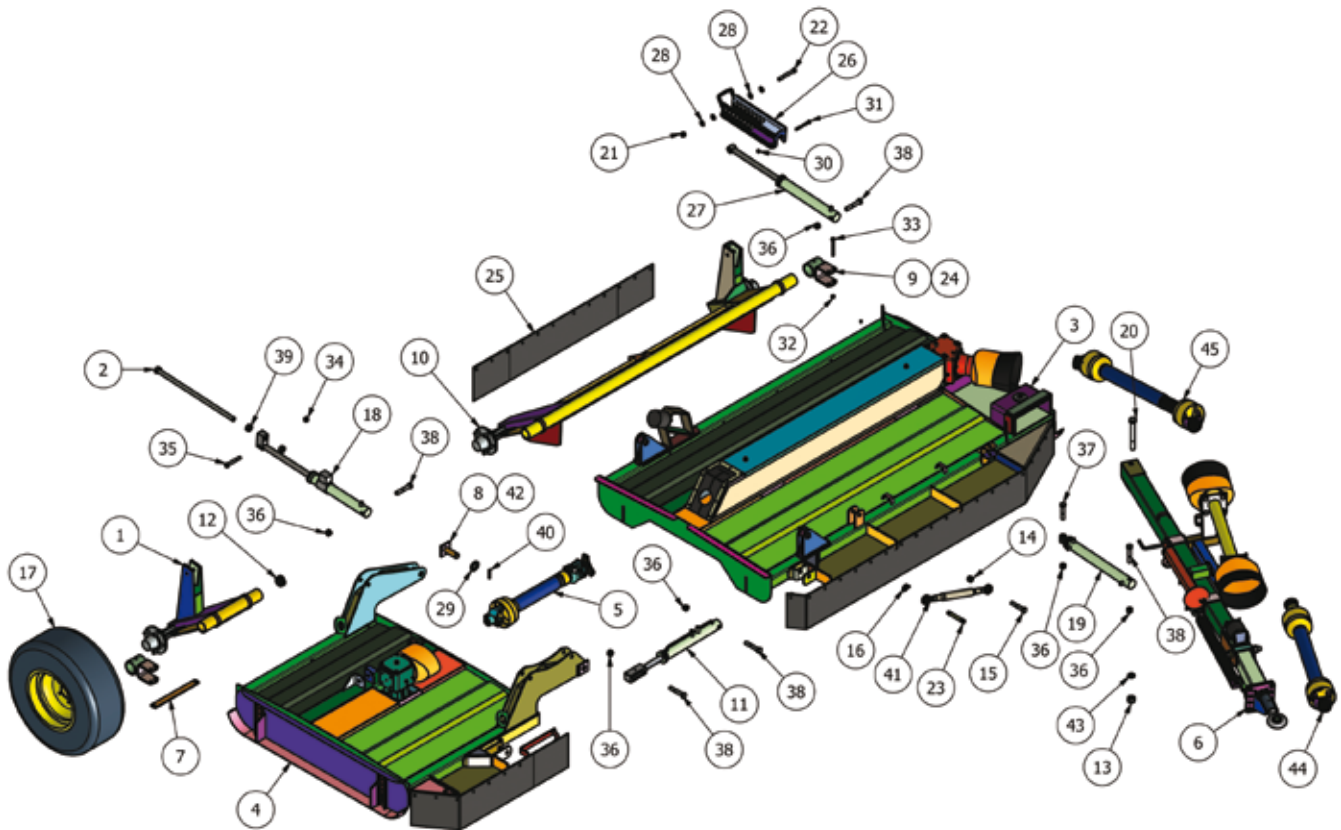


| Item | Part No        | Description                 | Qty |
|------|----------------|-----------------------------|-----|
| 1    | 800-900-HOSE-A | 1/4"x3660mm Str to Block 90 | 2   |
| 2    | 800-900-HOSE-B | 1/4"x4570mm Str to Block 90 | 1   |
| 3    | EDOW12         | 1/2" DOWTY WASHER           | 3   |
| 4    | EDOW14         | 1/4" DOWTY WASHER           | 3   |
| 5    | EMM1214        | 1/2-14" M/M CONNECTOR       | 3   |
| 6    | EMM14          | 1/4" M/M CONNECTOR          | 3   |
| 7    | EQRM12         | 1/2" QUICK RELEASE MALE     | 3   |



# 12FTGDW-HD Grass Topper

## Overview

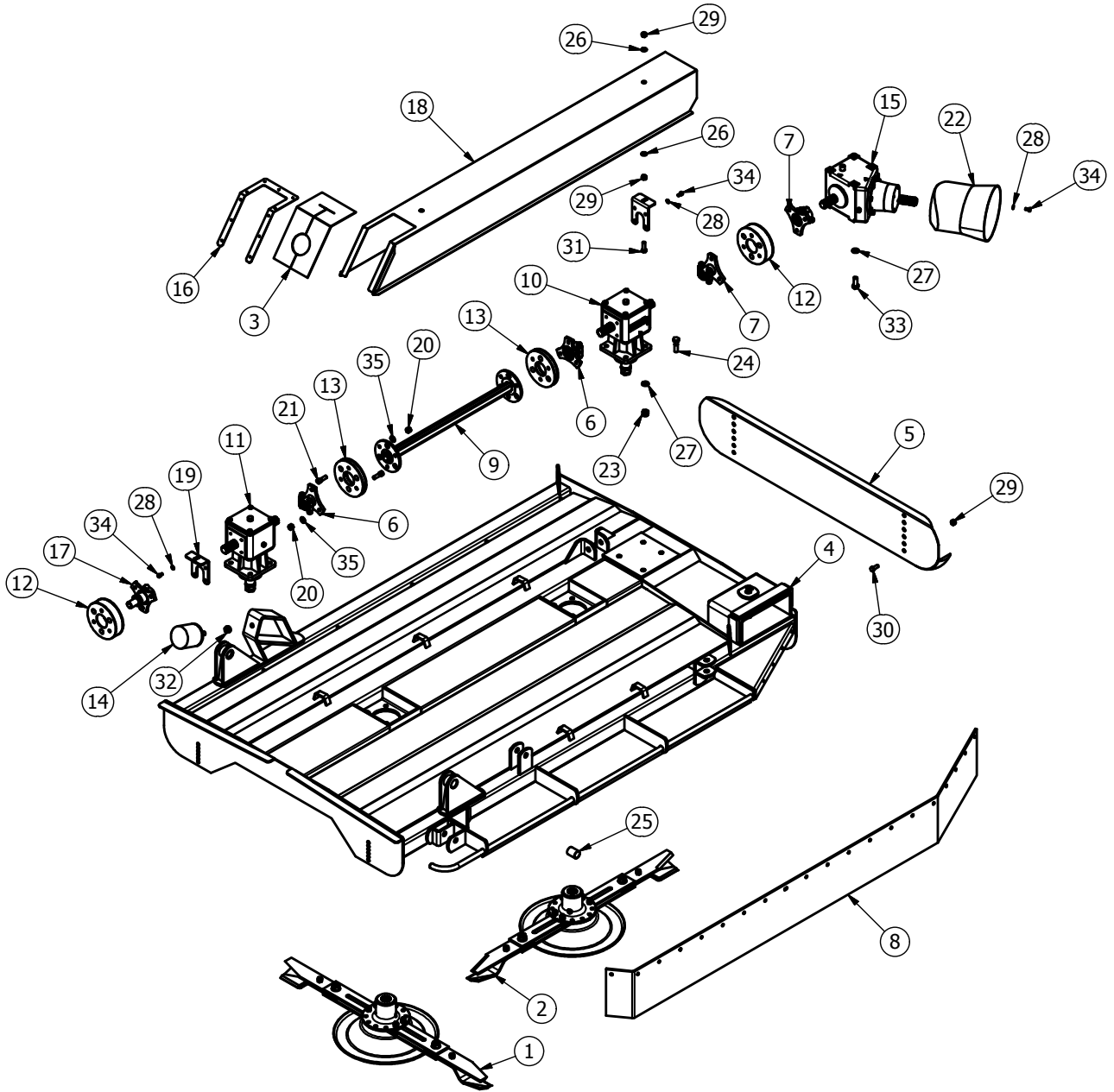


| Item | Part No             | Description            | Qty |
|------|---------------------|------------------------|-----|
| 1    | 12TGTA-1            | 12ft WING AXLE FAB     | 1   |
| 2    | 12TGTA-TBA          | 1200 WING AXLE STOP    | 1   |
| 3    | 12GTGB-GA           | 1200T BODY ASSEMBLY    | 1   |
| 4    | 12GTGW-GA           | 1200T WING ASSEMBLY    | 1   |
| 5    | 12TW-PTOW           | 1200T WING PTO SHAFT   | 1   |
| 6    | 12TWDD-GA           | 1200T TRAILED DRAWBAR  | 1   |
| 7    | 12TWT-AS            | AXLE STRAP (1200T)     | 1   |
| 8    | 12W-PIN07 (12GM-P1) | PIVOT PIN              | 2   |
| 9    | 8T12                | AXLE CLAMP             | 4   |
| 10   | 9TGTA-1             | TRAILED AXLE FAB       | 1   |
| 11   | 17GM-WR4_B          | WING LIFT RAM          | 1   |
| 12   | 199269              | DIA 57.5-61.5mm INSERT | 4   |
| 13   | 1/F                 | 1" FINE NYLOC NUT      | 1   |
| 14   | 3/4F                | 3/4" FINE NYLOC NUT    | 1   |
| 15   | 34x4FBZP            | 3/4"x4" FINE BOLT      | 1   |
| 16   | 3546                | LINCH PIN DIA 9.5      | 1   |
| 17   | 10X153WH            | WHEEL DIA 760x274mm    | 3   |
| 18   | 12TWT-ARAM          | 12TWT AXLE RAM         | 1   |
| 19   | 12TWT-DRAM          | DRAWBAR RAM BODY       | 1   |
| 20   | 1x8FBZP             | 1"x8" FINE BOLT        | 1   |
| 21   | 5/8F                | 5/8" FINE NYLOC NUT    | 1   |
| 22   | 58x5FBZP            | 5/8"x5" FINE BOLT      | 1   |
| 23   | S74                 | CAT 1 PIN DIA 19x102mm | 1   |

|    |                 |                         |   |
|----|-----------------|-------------------------|---|
| 24 | 820             | GREASE NIPPLE 1/8" STR  | 4 |
| 25 | 9TSKR           | 900T SKIRT              | 1 |
| 26 | 9TGT-AP1        | TOPPER HEIGHT SET       | 1 |
| 27 | 9TGTA-R1N       | AXLE RAM BODY           | 1 |
| 28 | DSW16           | DISC SPRING 34x16.3x2.0 | 4 |
| 29 | FW114           | DIA 1 1/4" FLAT WASHER  | 2 |
| 30 | M10             | M10 NYLOC NUT           | 2 |
| 31 | M10x110BZP      | M10x110 BOLT            | 2 |
| 32 | M12             | M12 NYLOC NUT           | 8 |
| 33 | M12x120BZP      | M12x120 BOLT            | 8 |
| 34 | M16             | M16 NYLOC NUT           | 1 |
| 35 | M16x110BZP      | M16x110 BOLT            | 1 |
| 36 | M20             | M20 NYLOC NUT           | 6 |
| 37 | M20x100BZP      | M20x100 BOLT            | 1 |
| 38 | M20x110BZP      | M20x110 BOLT            | 5 |
| 39 | M24HEX          | M24 PLAIN NUT           | 2 |
| 40 | 1234            | ROLL PIN DIA 10x60      | 2 |
| 41 | S300-B          | CAT 1-1 TOP LINK        | 1 |
| 42 | 849             | GREASE NIPPLE M6 STR    | 2 |
| 43 | SW1             | 1" SPRING WASHER        | 1 |
| 44 | T600810ENC12RB2 | T60 SHEAR BOLT O/R      | 1 |
| 45 | V600860ENC12C12 | COLLAR-COLLAR PTO       | 1 |



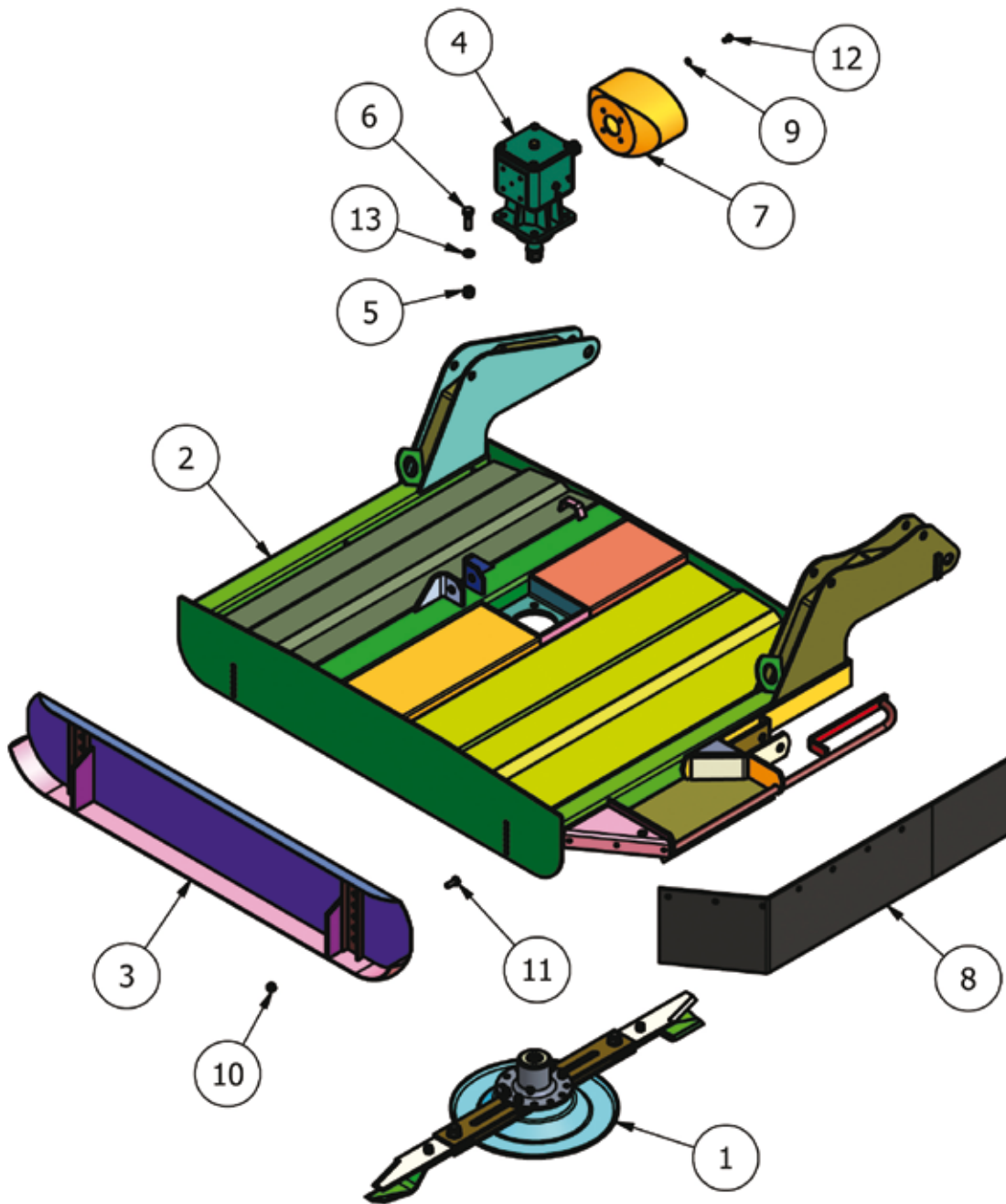
# 12FTGDW-HD Body Assembly



| Item | Part No     | Description                       | Qty |
|------|-------------|-----------------------------------|-----|
| 1    | 1239V2-D-BL | 1239 BLADE (Anti_Clk)             | 1   |
| 2    | 1239V2-D-BR | 1239 BLADE (Clk)                  | 1   |
| 3    | 12GMTC1     | G/BOX RUBBER COVER END            | 1   |
| 4    | 12TWTB-01   | 1200T BODY FAB                    | 1   |
| 5    | SLH16AS     | SKID (OFFSET)                     | 1   |
| 6    | 60CSD       | 60mm STAR DRIVE                   | 2   |
| 7    | 8SM-18      | 6 SPLINE STAR DRIVE               | 2   |
| 8    | 8SM-30      | 800SM SKIRT                       | 1   |
| 9    | DRV-RC-800T | 800T DRIVE                        | 1   |
| 10   | MJ40T       | 6 SPLINE 'T' BOX (347801) 1.47    | 1   |
| 11   | MJ40T21     | 6/21 SPLINE 'T' BOX (347802) 1.47 | 1   |
| 12   | MJRC-113    | 113 PCD RUBBER COUPLING           | 2   |
| 13   | MJRC-23     | 113 PCD COUPLING 4mm PLT          | 2   |
| 14   | MOT10       | DIA 100x100 BUFFER                | 1   |
| 15   | T291A       | 6 SPLINE 'ANG' RATIO 1.35         | 1   |
| 16   | 12TC-E      | G/BOX COVER END                   | 1   |
| 17   | 12EW45-2    | 21 SPLINE STAR DRIVE              | 1   |

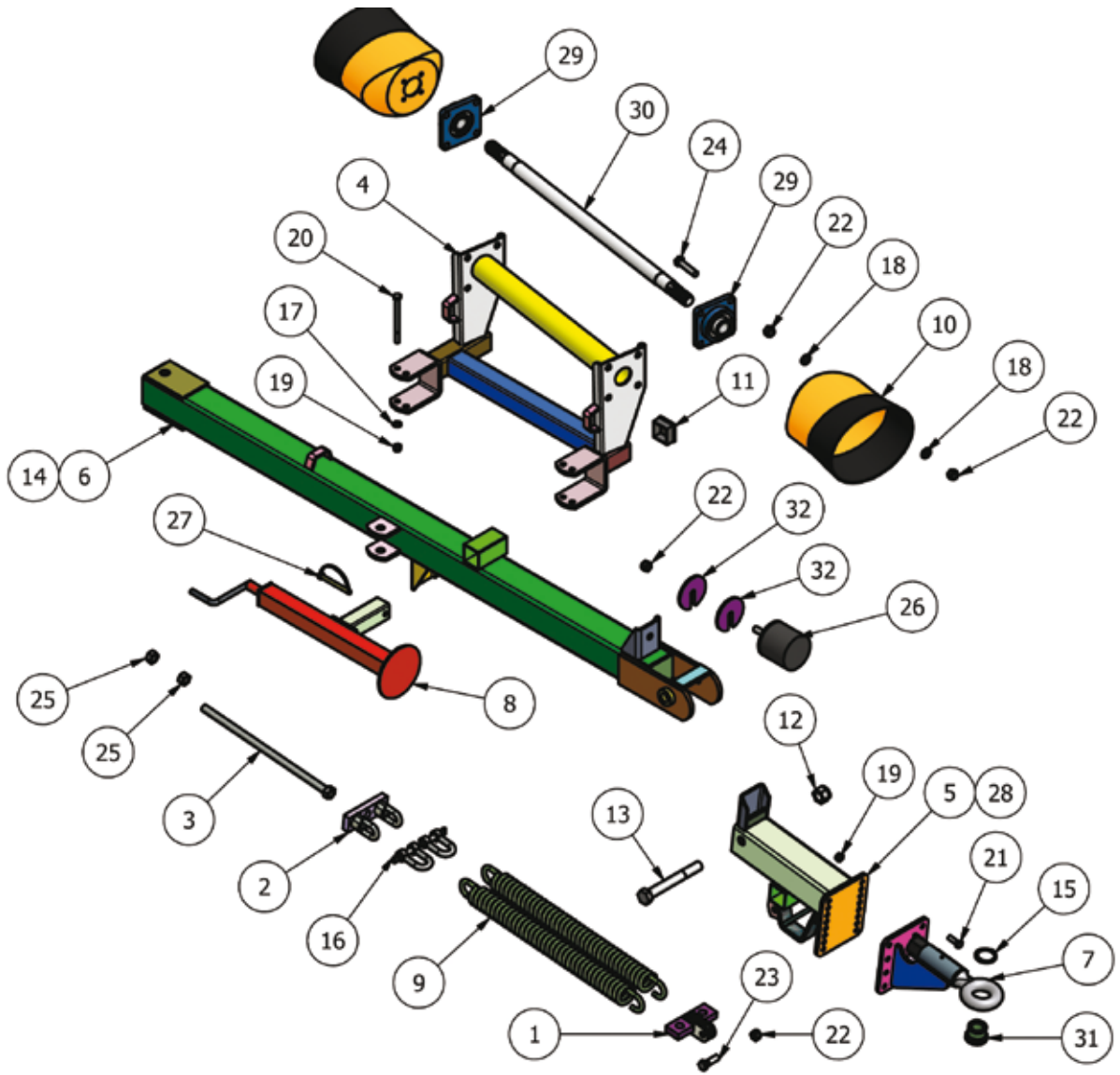
|    |             |                                   |    |
|----|-------------|-----------------------------------|----|
| 18 | 12TGT-TC    | 1200T BODY COVER                  | 1  |
| 19 | 9TGT-CB     | GEARBOX COVER BRKT                | 2  |
| 20 | 12HEX109    | 1/2F HEX 10.9                     | 24 |
| 21 | 12x112FSKS  | 1/2"x1 1/2" FINE SOCKET HEAD 12.9 | 24 |
| 22 | 190.000.545 | PTO GUARD (EXTENDED OVAL)         | 1  |
| 23 | 5/8F        | 5/8" FINE NYLOC NUT               | 8  |
| 24 | 58x214FBZP  | 5/8"x2 1/4" FINE BOLT             | 8  |
| 25 | 8SM14       | DIA 1 1/4" BUSHx1 3/4"            | 2  |
| 26 | FWM12       | M12 FLAT WASHER                   | 4  |
| 27 | FWM16       | M16 FLAT WASHER                   | 12 |
| 28 | FWM8        | M8 FLAT WASHER                    | 8  |
| 29 | M12         | M12 NYLOC NUT                     | 8  |
| 30 | M12x30SZP   | M12x30 SET BOLT                   | 4  |
| 31 | M12x40SZP   | M12x40 SET BOLT                   | 2  |
| 32 | M16         | M16 NYLOC NUT                     | 1  |
| 33 | M16x40SZP   | M16x40 SET BOLT                   | 4  |
| 34 | M8x16SZP    | M8x16 SET BOLT                    | 8  |
| 35 | NL12SP      | M12 SP NORDLOCK                   | 24 |

## 12FTGDW-HD Wing Assembly



| Item | Part No      | Description                        | Qty |
|------|--------------|------------------------------------|-----|
| 1    | 1239V2-D-BR* | 1239 BLADE (Cik) (shortened blade) | 1   |
| 2    | 12TWT-01     | 1200T WING FAB                     | 1   |
| 3    | SLH16AS      | SKID (OFFSET)                      | 1   |
| 4    | MJ40L        | 6 SPLINE "L" BOX RATIO 1.47        | 1   |
| 5    | 5/8F         | 5/8" FINE NYLOC NUT                | 4   |
| 6    | 58x2FBZP     | 5/8"x2" FINE BOLT                  | 4   |
| 7    | 8SM11/2      | PTO GUARD (OVAL)                   | 1   |
| 8    | 9TSKR        | 900T SKIRT                         | 1   |
| 9    | FWM8         | M8 FLAT WASHER                     | 4   |
| 10   | M12          | M12 NYLOC NUT                      | 4   |
| 11   | M12x30SZP    | M12x30 SET BOLT                    | 4   |
| 12   | M8x16SZP     | M8x16 SET BOLT                     | 4   |
| 13   | SW58         | 5/8" SPRING WASHER                 | 4   |

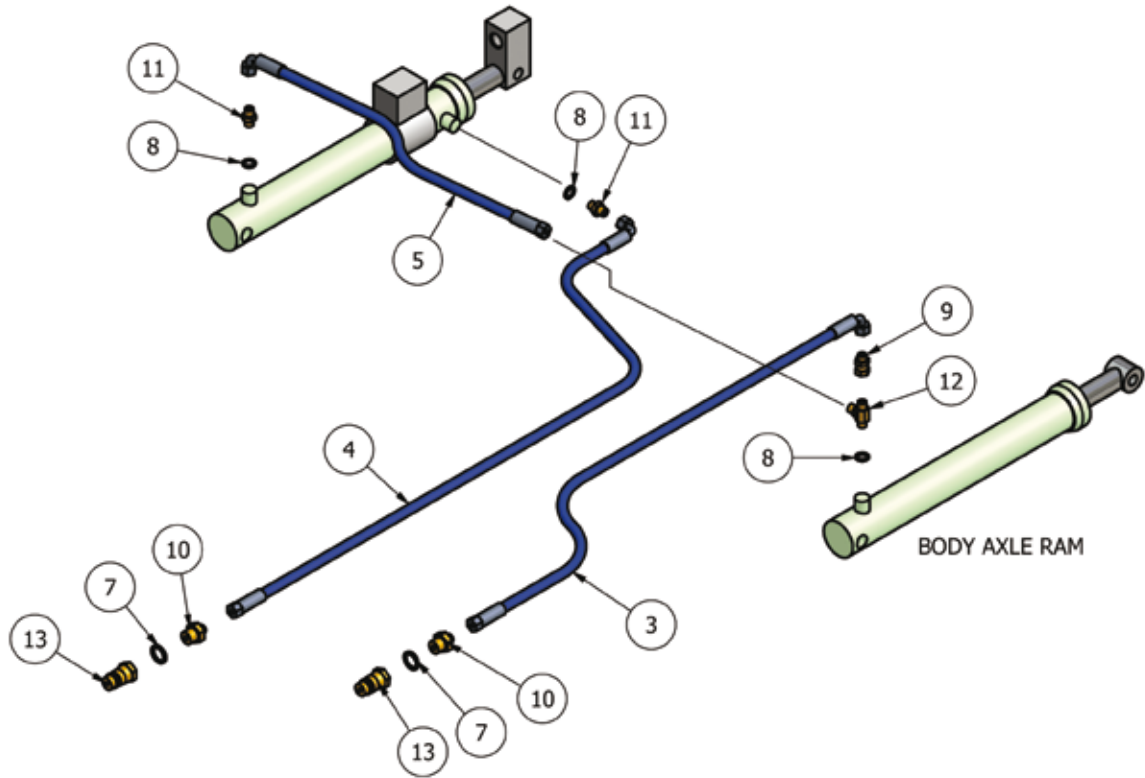
# 12FTGDW-HD Drawbar



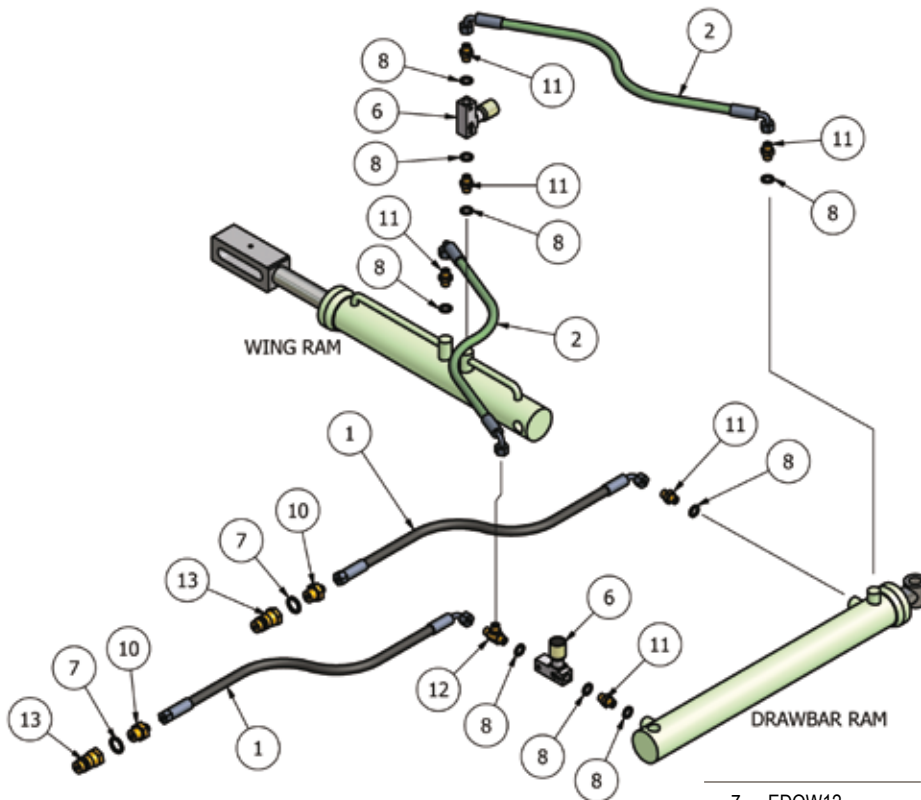
| Item | Part No     | Description               | Qty |
|------|-------------|---------------------------|-----|
| 1    | 12TWTDSM    | SPRING MOUNT              | 1   |
| 2    | 12TWDST     | SPRING TENSIONER          | 1   |
| 3    | 12TWTDTB    | 1200 SPRING TENSIONER     | 1   |
| 4    | 894T        | DUMMY SHAFT MOUNT         | 1   |
| 5    | 8T-AD1      | DRAWBAR HINGE             | 1   |
| 6    | 8T3         | DRAWBAR FAB               | 1   |
| 7    | RTE-01      | ROTARY HITCH EYE          | 1   |
| 8    | TT-JACK     | TOPPER JACK               | 1   |
| 9    | 12MB2S      | DRAWBAR SPRING            | 2   |
| 10   | 190.000.545 | PTO GUARD (EXTENDED OVAL) | 2   |
| 11   | 199211      | SQ 52-54mm INSERT (POL)   | 2   |
| 12   | 1F          | 1" FINE NYLOC NUT         | 1   |
| 13   | 1x8FBZP     | 1"x8" FINE BOLT           | 1   |
| 14   | 820         | GREASE NIPPLE 1/8" STR    | 1   |
| 15   | AGC2        | DIA 50 EXT HEAVY CIRCLIP  | 1   |
| 16   | EW29A       | 5/8" "D" SHACKLE          | 2   |

|    |            |                       |    |
|----|------------|-----------------------|----|
| 17 | FWM12      | M12 FLAT WASHER       | 4  |
| 18 | FWM16      | M16 FLAT WASHER       | 16 |
| 19 | M12        | M12 NYLOC NUT         | 12 |
| 20 | M12x150BZP | M12x150 BOLT          | 4  |
| 21 | M12x35BZP  | M12x35 BOLT           | 8  |
| 22 | M16        | M16 NYLOC NUT         | 18 |
| 23 | M16x50BZP  | M16x50 BOLT           | 1  |
| 24 | M16x70SZP  | M16x70 SET BOLT       | 8  |
| 25 | M20HEX     | M20 PLAIN NUT         | 2  |
| 26 | MOT10      | DIA 105x100 BUFFER    | 1  |
| 27 | S272       | SHAFT LOCK PIN DIA 11 | 1  |
| 28 | S840       | GREASE NIPPLE 1/8"x45 | 1  |
| 29 | SF1-12     | DIA 1 1/2" FLANGE BRG | 2  |
| 30 | 8T1-3      | DUMMY SHAFT           | 1  |
| 31 | TDD-TEB    | TOE EYE BUSH          | 1  |
| 32 | 8T19       | BUFFER SPACER         | 2  |

## 12FTGDW-HD - Axle Hydraulics



## 12FTGDW-HD - Wing Hydraulics



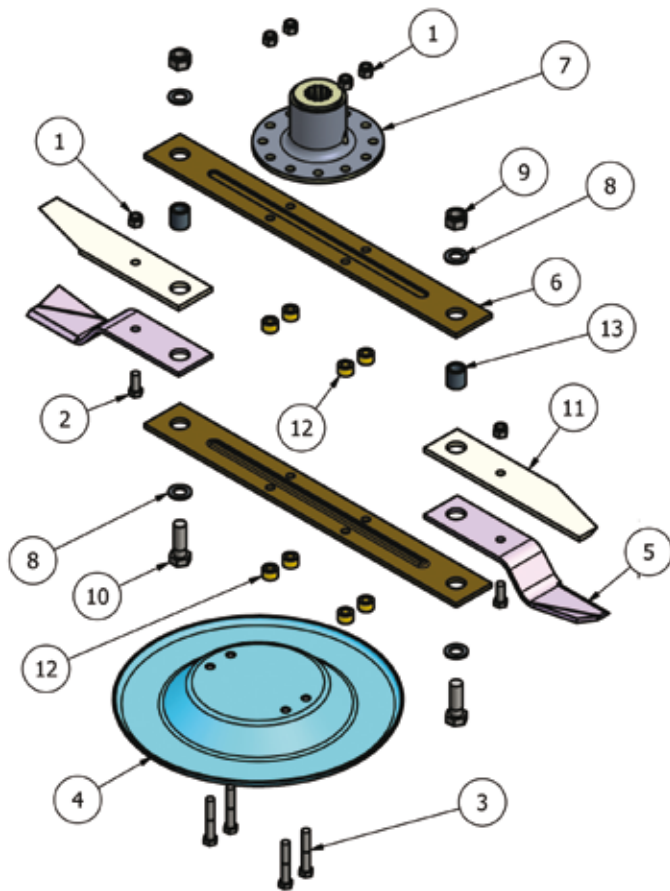
| Item | Part No     | Description                      | Qty |
|------|-------------|----------------------------------|-----|
| 1    | 1200-HOSE-A | 1/4"x3660mm Str to Block 90      | 2   |
| 2    | 1200-HOSE-B | 1/4"x3400mm Block 90 to Block 90 | 2   |
| 3    | 1200-HOSE-D | 1/4"x5180mm Str to Block 90      | 1   |
| 4    | 1200-HOSE-E | 1/4"x8000mm Str to Block 90      | 1   |
| 5    | 1200-HOSE-F | 1/4"x2900mm Str to Block 90      | 1   |
| 6    | 1251-5-14   | 1/4" RESTRICTOR VALVE (BLACK)    | 2   |

|    |         |                         |    |
|----|---------|-------------------------|----|
| 7  | EDOW12  | 1/2" DOWTY WASHER       | 4  |
| 8  | EDOW14  | 1/4" DOWTY WASHER       | 12 |
| 9  | EMF14   | 1/4" M/F CONNECTOR      | 1  |
| 10 | EMM1214 | 1/2-14" M/M CONNECTOR   | 4  |
| 11 | EMM14   | 1/4" M/M CONNECTOR      | 8  |
| 12 | EMMMT14 | 1/4" M/M/M CONNECTOR    | 2  |
| 13 | EQRM12  | 1/2" QUICK RELEASE MALE | 4  |

## Blades

### PRO-CUT BLADE SYSTEMS - from 2011

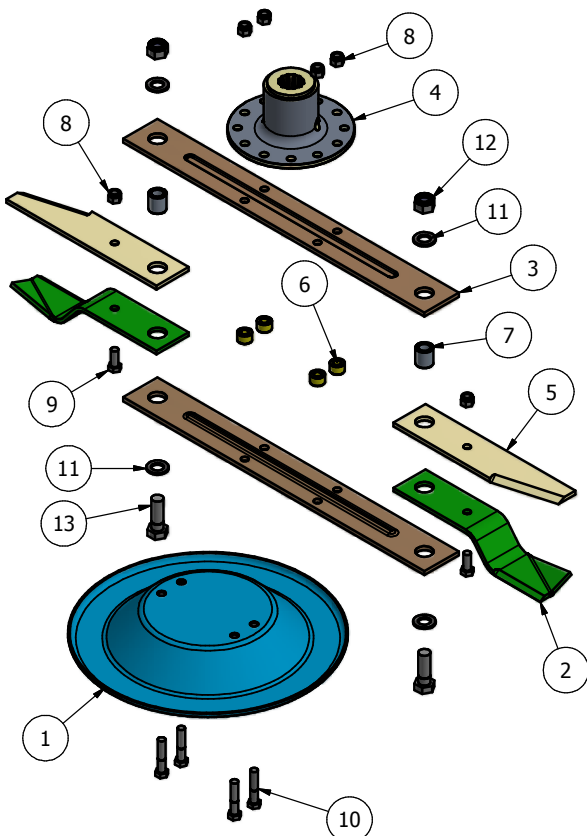
#### MACHINE MODEL: 8FTGD & 12FTGDW



| Item | 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 (Clk)      | 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                               |
|---------|-----------------------------------|
| 8FTGD   | 1 clockwise<br>1 anti clockwise   |
| 12FTGDW | 1 clockwise,<br>1 anti clockwise) |

#### MACHINE MODEL: 12FTGDW (WING)

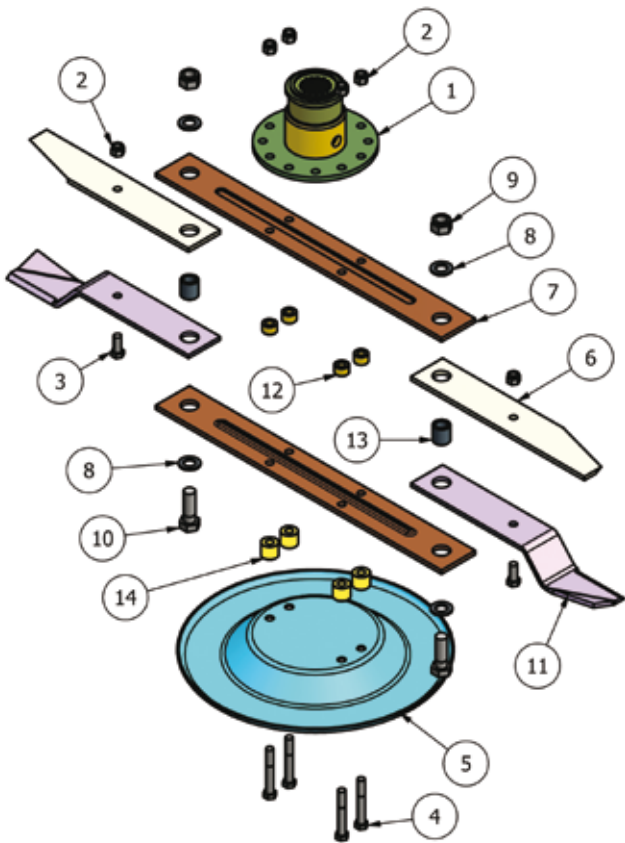


| Item | Part No    | Description            | Qty |
|------|------------|------------------------|-----|
| 1    | 9GT-USS    | UNDER SOLE SKID        | 1   |
| 2    | 9GTB-C     | SWING BLADE (Clk)      | 2   |
| 3    | BLDB-623   | BLADE BACK (623 CTR)   | 2   |
| 4    | DF-BMP     | J205 G/BOX BLADE MOUNT | 1   |
| 5    | NTSB13C    | OVERLAP BLADE          | 2   |
| 6    | 12T-BBS    | BLADE BACK SPACER      | 4   |
| 7    | 12T-LBB    | OVERLAP BLADE BUSH     | 2   |
| 8    | 1/2F       | 1/2" FINE NYLOC NUT    | 6   |
| 9    | 12x114FBZP | 1/2"x1 1/4" FINE BOLT  | 2   |
| 10   | 12x212FBZP | 1/2"x2 1/2" FINE BOLT  | 4   |
| 11   | FWM20      | M20 FLAT WASHER        | 4   |
| 12   | M20        | M20 NYLOC NUT          | 2   |
| 13   | M20x60BZP  | M20x60 BOLT            | 2   |

| MACHINE | QTY          |
|---------|--------------|
| 12FTGDW | 1 clockwise, |



**MACHINE MODEL: 9FTGD**



| Item | 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 (Clk)      | 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                             |
|---------|---------------------------------|
| 9FTGD   | 1 clockwise<br>1 anti clockwise |

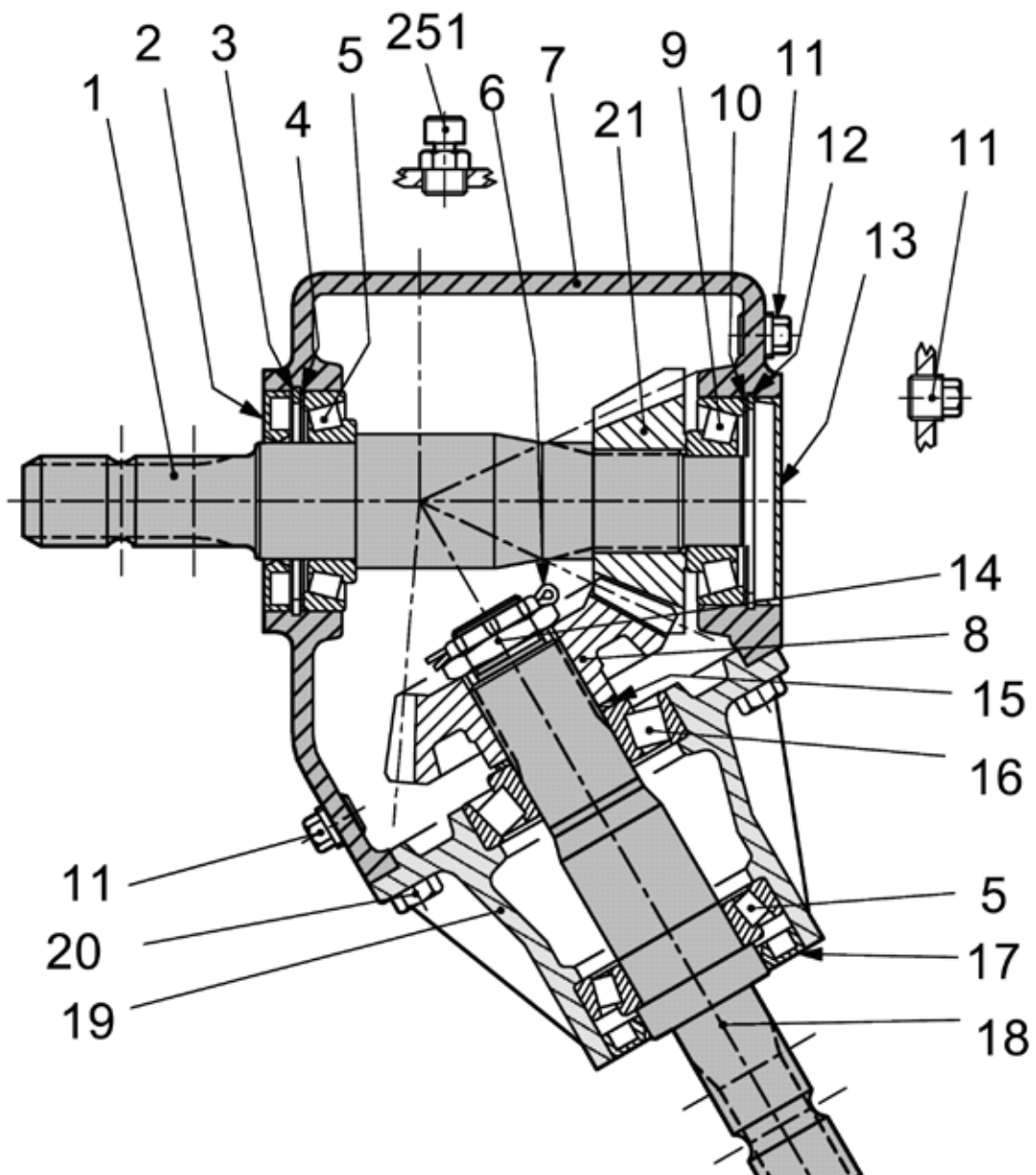
NOTE: Please have the serial number of your machine to hand when ordering blades to ensure you get the correct parts.

**PTO Shafts**

| Machine         | Primary              | Secondary                      | Wing                                |
|-----------------|----------------------|--------------------------------|-------------------------------------|
| 8FTGD Trailed   | V600860ENC12C12      | T600810ENC12RB2 (T60BOOR-1100) | N/A                                 |
|                 | V60 SHAFT COLLAR     | T60 SHAFT OVERRUN+SHEARBOLT    | N/A                                 |
| 9FTGD Trailed   | V600860ENC12C12      | T600810ENC12RB2 (T60BOOR-1100) | N/A                                 |
|                 | V60 SHAFT COLLAR     | T60 SHAFT OVERRUN+SHEARBOLT    | N/A                                 |
| 12FTGDW Trailed | V600960CEC02C12      | T600810ENC12RB2 (T60BOOR-1100) | 12TW-PTO                            |
|                 | V60 SHAFT WIDE ANGLE | T60 SHAFT OVERRUN+SHEARBOLT    | WING DRIVE PTO SHAFT COMPLETE 1200T |

**Gearboxes**

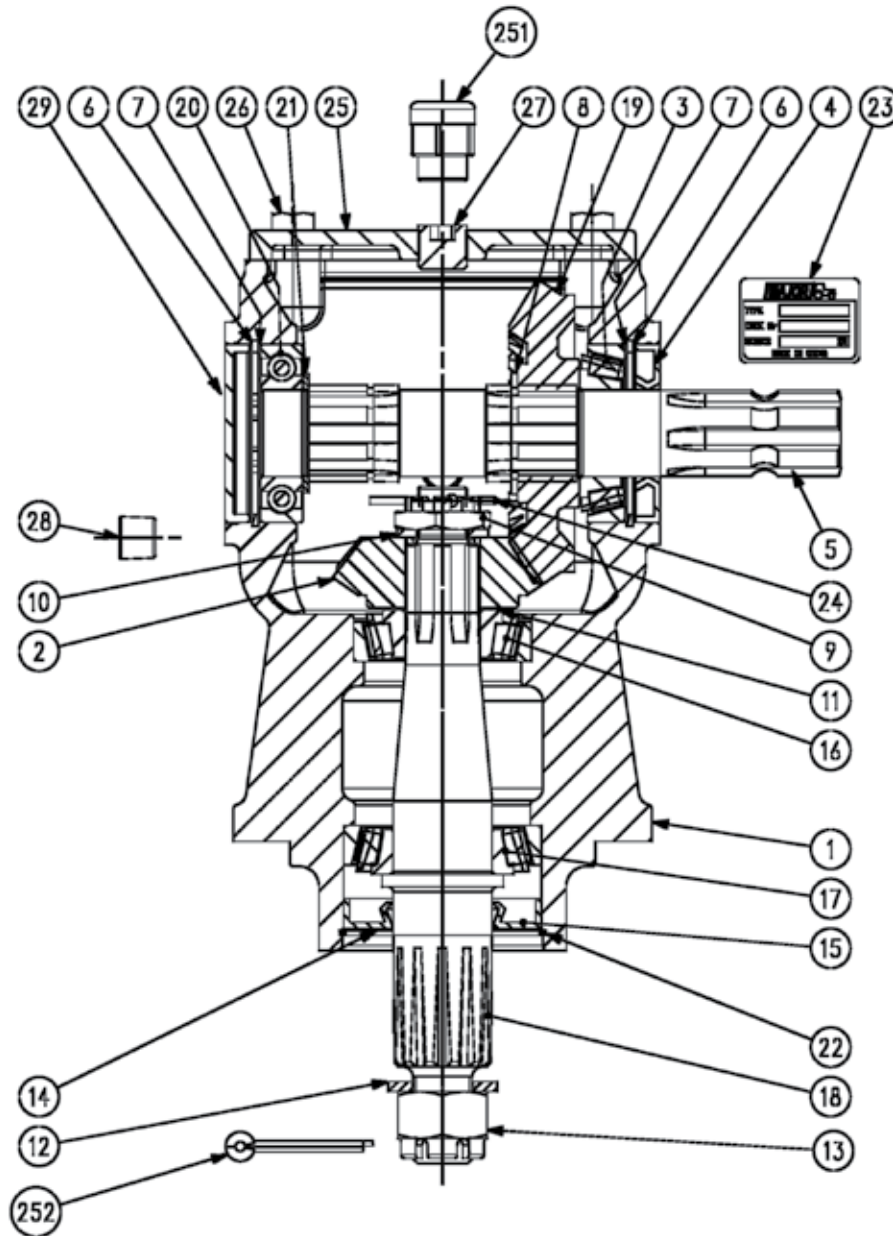
| Machine                         | Gearbox |
|---------------------------------|---------|
| 8FTGD-HD, 9FTGD-HD & 12FTGDW-HD | MJ40T   |
| 8FTGD-HD, 9FTGD-HD & 12FTGDW-HD | T291A   |
| 12FTGDW-HD (Wing)               | MJ40T21 |



| Item | Part No      | Description                | Qty |
|------|--------------|----------------------------|-----|
| 1    | 0291.3001.00 | Shaft                      | 1   |
| 2    | 8.7.3.00331  | Oil Seal                   | 1   |
| 3    | 8.5.2.00332  | Snap Ring                  |     |
| 4    | 0709.7500.00 | Shim                       | 1   |
| 5    | 8.0.9.01186  | Bearing                    | 2   |
| 6    | 8.4.7.01111  | Cotter Pin                 | 1   |
| 7    | 0291.0301.00 | Casing                     | 1   |
| 8    | 0286.5001.00 | Crown Wheel                | 1   |
| 9    | 8.0.9.00129  | BEARING 30307              | 1   |
| 10   | 0267.7500.00 | Shim                       | 1   |
| 11   | T4A/10       | PLUG 3/8"GAS (8.6.5.00006) | 3   |
| 12   | 85200030     | Snap Ring                  | 1   |
| 13   | 8.7.0.00790  | Cap                        | 1   |
| 14   | 0132.7106.00 | Nut                        | 1   |
| 15   | 0244.7500.00 | Shim                       | 1   |

|     |              |                               |   |
|-----|--------------|-------------------------------|---|
| 16  | 8.0.9.00128  | Bearing                       | 1 |
| 17  | 8.7.3.010.96 | Oil Seal                      | 1 |
| 18  | 0291.2000.00 | Shaft                         | 1 |
| 19  | 0291.1300.00 | Extension                     | 1 |
| 20  | M10x22       | BOLT M10X22 8,8 (8.1.1.00501) | 8 |
| 21  | 0286.6000.00 | Pinion                        | 1 |
| 251 | 8.6.7.00161  | Oil Filler Plug               | 1 |

MJ40L-347.800-1.47

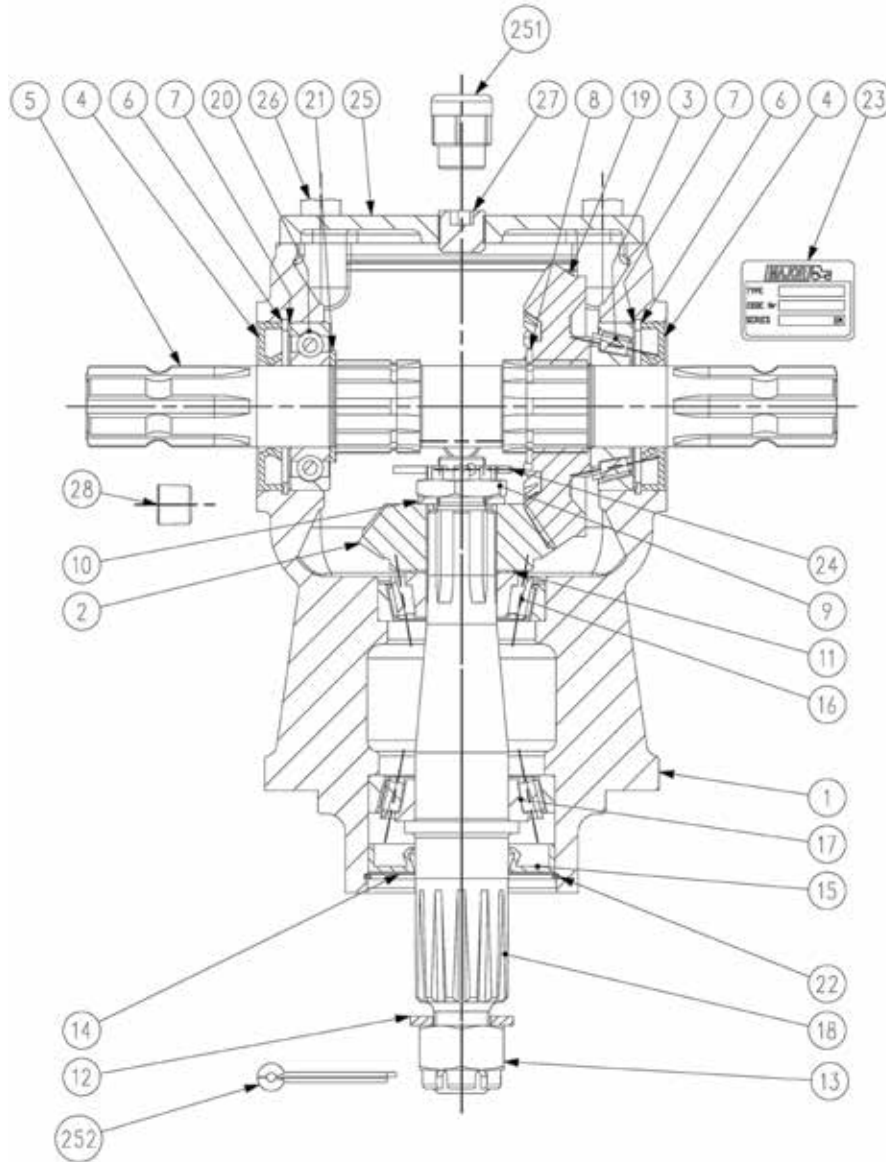


| Item | Part No        | Description                          | Qty |
|------|----------------|--------------------------------------|-----|
| 1    | 0.347.0300.00  | Casting and Machining                | 1   |
| 2    | UO.040.5004.00 | Gear Pinion Z15 M5.5                 | 1   |
| 3    | 8.09.00026     | 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 |

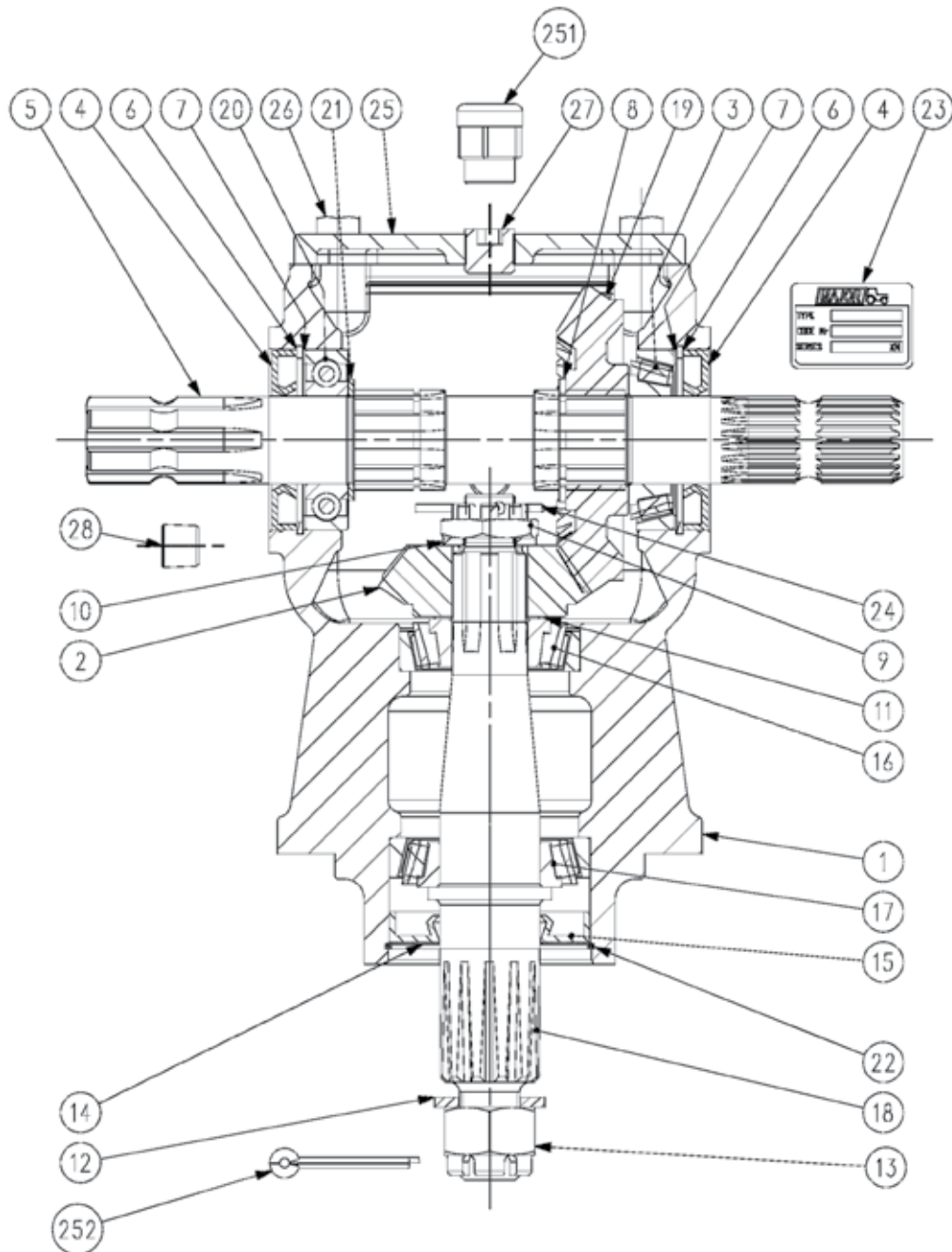


MJ40T-347.801-1.47



| Item | 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   |

|     |                |                                      |   |
|-----|----------------|--------------------------------------|---|
| 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 (30x72x20.65)   | 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 |
| 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  | 8.6.6.00088    | 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 |
| 252 | 8.4.7.00516    | Cotter Pin (5x50)                    | 1 |



| Item | Part No        | Description                          | Qty | Item | Part No        | Description                        | Qty |
|------|----------------|--------------------------------------|-----|------|----------------|------------------------------------|-----|
| 1    | 0.347.0300.00  | Casting and Machining                | 1   | 16   | 8.0.9.01049    | Roller Bearing 30306 (30x72x20.75) | 1   |
| 2    | U0.040.5004.00 | Gear Pinion Z15 M5.5                 | 1   | 17   | 8.0.9.00024    | Roller Bearing 30208 (40x80x19.75) | 1   |
| 3    | 8.0.9.00026    | Roller Bearing 30207 (35x72x18.25)   | 1   | 18   | U0.040.3006.01 | Output Shaft ASA D.P. 8/16 Z12     | 1   |
| 4    | 8.7.3.00055    | Oil Seal (35x72x10)                  | 2   | 19   | U0.040.6004.00 | Gear Crown Z22 M5.5                | 1   |
| 5    | 0.347.3001.00  | Through Shaft 1"3/8 Z6 -1"3/8 Z21    | 1   | 20   | 8.0.1.00870    | Ball Bearing 6207 (35x72x17)       | 1   |
| 6    | 8.5.2.00131    | Snap Ring (72x75x2.5 , For Shafts)   | 2   | 21   | 0.259.7527.00  | Shim (35.3x48x2.5)                 | 1   |
| 7    | 0.248.7500.00  | Shim Kit (60.3x71.7)                 | 2   | 22   | 8.5.3.00955    | Snap Ring SB 81 (81x82.8x2)        | 1   |
| 8    | 8.5.1.00680    | Snap Ring (40x37.5x2.5)              | 1   | 23   | 0.205.7100.00  | "Major" Name Plate                 | 1   |
| 9    | 0.289.7102.02  | Castle Nut (M20x1)                   | 1   | 24   | 8.4.7.00823    | Cotter Pin (4x40)                  | 1   |
| 10   | 8.3.2.00531    | Flat Washer (21x37x3)                | 1   | 25   | 0.347.1300.00  | Top cover                          | 1   |
| 11   | 0.102.7500.00  | Shim Kit (30.3x44)                   | 1   | 26   | 8.1.1.00061    | Bolt M10x25 HHB (8.8)              | 4   |
| 12   | LF135-2        | Flat Washer (25x44x4)                | 1   | 27   | 8.6.6.00088    | 1/2" Gas Solid Plug                | 1   |
| 13   | LF135-1        | Castle Nut (M24x2)                   | 1   | 28   | 8.6.6.00201    | 3/8" Gas Oil Level Plug            | 1   |
| 14   | 1.135.7100.00  | Protective Flat Washer (40.4x79.9x1) | 1   | 251  | 8.6.7.00269    | 1/2" Gas Oil Breather Plug         | 1   |
| 15   | 8.7.1.00748    | Dust Lip (40x80x12)                  | 1   | 252  | 8.4.7.00516    | Cotter Pin (5x50)                  | 1   |

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Ballyhaunis, Co Mayo  
Ireland  
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**United Kingdom**  
**Major Equipment Ltd**  
Major Ind. Estate, Heysham,  
Lancs, LA3 3JJ, UK  
Tel: +44 (0) 1524 850501

**Netherlands & Germany**  
**Major Equipment Intl Ltd**  
Postbus 29, NL-7700 AA  
Dedemsvaart, Nederland  
Tel: + 31 (0) 6389 19585