

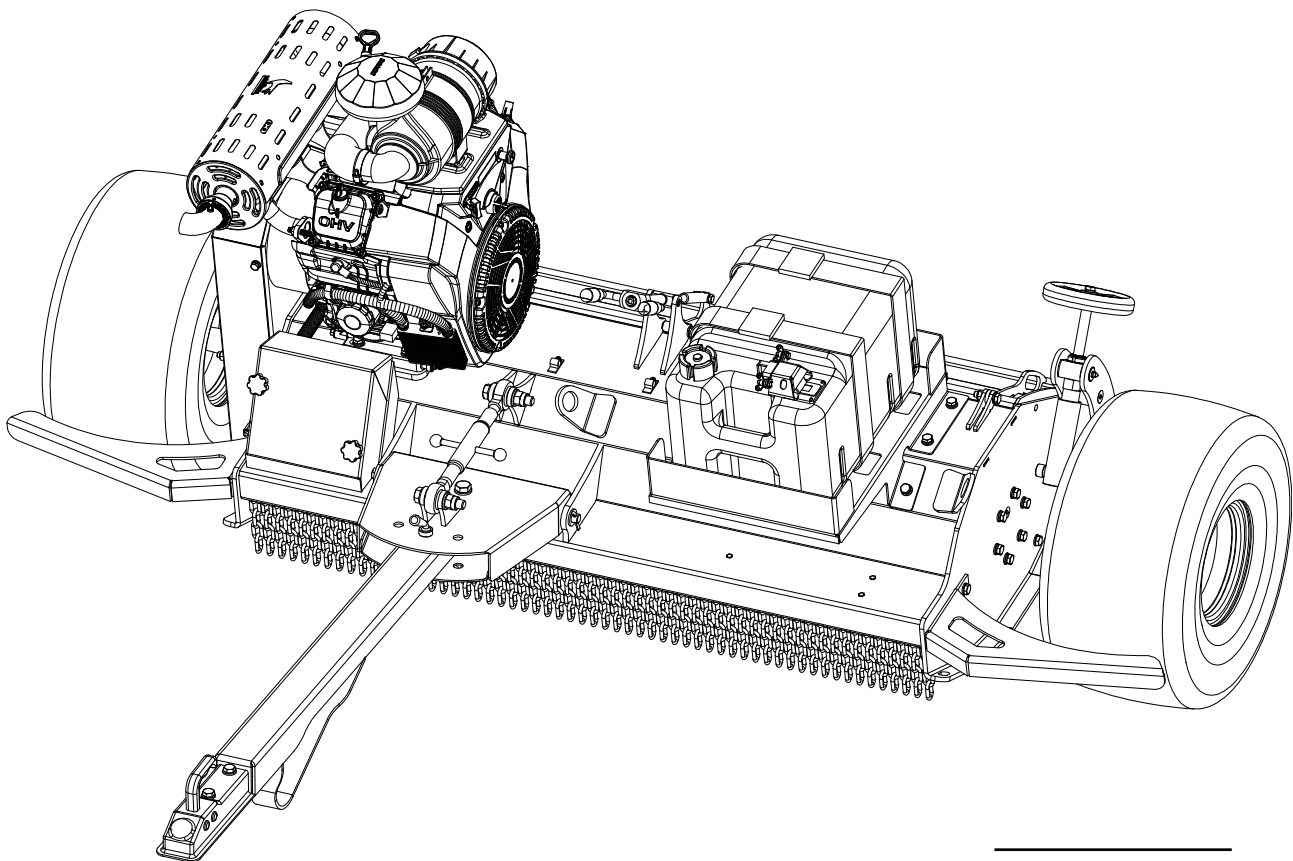


Flail Mower

Engine-powered ATV

Compatible

OPERATOR'S MANUAL



G.AF 160



Please carefully read this manual and follow all the instructions. Failure to comply with the warnings and precautions may result in serious injury or death.

V2.0 3250200658

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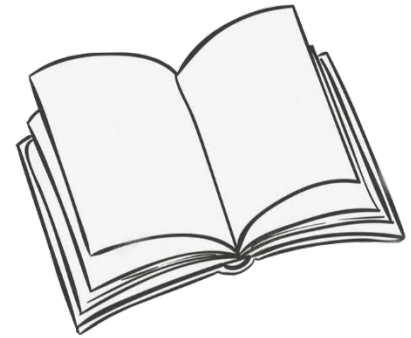
SAFETY PRECAUTIONS

Listed below are common practices that may or may not be applicable to the products described in this manual.

Safety First

Careful operation is your best assurance against an accident.

Please be fully aware that you are responsible for the safe operation and maintenance of your implement. You must ensure that you and anyone else who is going to operate, maintain or work around the implement is familiar with the operating and maintenance procedures and related safe information contained in this manual. This manual is prepared to guide you through all essential operations related to this implement and alert you to all good safety practices that should be strictly followed.



Please constantly bear in mind that good safety practices not only protect you but also the people around you. Incorporate these practices an inseparable part into your safety program. Make sure that who operates this equipment is familiar with the recommended operating and maintenance procedures and follows all the safety precautions. Most accidents can be prevented. Do not risk injury of death by ignoring good safety practices.

- Thoroughly read and understand the “[Safety Labels](#)” section. Read all instructions noted on them.
- Do not operate the equipment while under the influence of drugs or alcohol, as they impair your ability to safely and properly operate the equipment.
- The operator should be familiar with all functions of the tractor and attached implement, and be able to handle emergencies quickly.
- Make sure all guards and shields appropriate for the operation are in place and secured before operating the implement.
- Keep all bystanders away from equipment and work area. Start tractor from the driver’s seat with hydraulic controls in neutral.
- Operate tractor and controls from the driver’s seat only.
- Never dismount from a moving tractor or leave tractor unattended with engine running.
- Do not allow anyone to stand between the implement and tractor while backing up to the implement.
- Keep hands, feet, and clothing away from power-driven parts.
- While transporting and operating equipment, watch out for objects overhead and along the sides such as fences, trees, buildings, wires, etc.
- Do not turn tractor so tight as to cause hitched implement to ride up on the tractor’s rear wheel.
- Store implement in a safe and secure area where children normally do not play. When needed, secure implement against falling with support blocks.

Safety Alert Symbol

The SAFETY ALERT SYMBOL indicates there is a potential hazard to personal safety and extra precaution must be taken. When you see this symbol, be alert and carefully read the message that follows it. Hazard control, and accident prevention are dependent upon the awareness, concern, prudence, and proper training of personnel involved in the operation, transport, maintenance, and storage of equipment.

Be Aware of Signal Words

A signal word designates a degree or level of hazard seriousness. They are:

⚠ DANGER: Indicates a hazardous situation that, if not avoided, will result in death or serious injury.

⚠ WARNING: Indicates a hazardous situation that, if not avoided, could result in death or serious injury.

⚠ CAUTION: Indicates a hazardous situation that, if not avoided, may result in minor or moderate injury.

Be Aware of Special Notices

Special notices are intended to point out important and helpful information that should be followed. They are:

ATTENTION: Indicates that equipment or property damage could result if instructions are not followed.

NOTE: Indicates supplementary explanations that will be helpful when using the equipment.

Safety for Children

Tragedy can occur if the operator is not alert to the presence of children, Children generally are attracted to implements and their work.

- Never assume children will remain where you last saw them.
- Keep children out of the work area and under the watchful eye of a responsible adult.
- Be alert and shut the implement and tractor down if children enter the work area.
- Never carry children on the tractor or implement. There is not a safe place for them to ride. They may fall off and be run over or interfere with the control of the power machine.
- Never allow children to operate the power machine, even under adult supervision.
- Never allow children to play on the power machine or implement.

Operation Safety

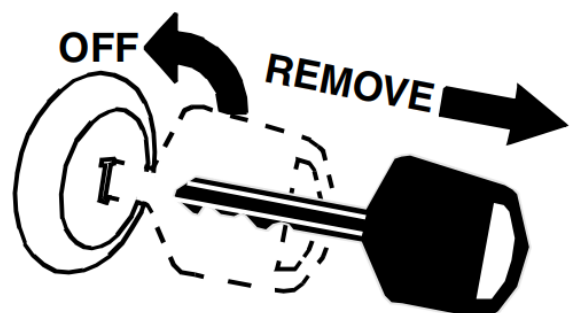
Use extra caution when backing up. Before the tractor starts to move, look down and behind to make sure the area is safety and clear.

Tractor Shutdown Safety

If engaged, disengage power take-off.

Park on solid, level ground and lower implement to ground or onto support blocks.

- Put tractor in park or set park brake.
- Turn off engine and remove ignition key to prevent unauthorized starting.
- Relieve all hydraulic pressure to auxiliary hydraulic lines.



- Wait for all components to stop before leaving operator's seat.
- Use steps, grab-handles and anti-slip surfaces when stepping on or off the tractor.
- If engaged, disengage power take-off.
- Park on solid, level ground and lower implement to ground or onto support blocks.
- Put tractor in park or set park brake.
- Turn off engine and remove ignition key to prevent unauthorized starting.
- Relieve all hydraulic pressure to auxiliary hydraulic lines.
- Wait for all components to stop before leaving operator's seat.
- Use steps, grab-handles and anti-slip surfaces when stepping on and off the tractor.

Use A Safety Chain

A safety chain will help control drawn machinery should it separate from the tractor drawbar.

Use a chain with the strength rating equal to or greater than the gross weight of the towed implement.

- Attach the chain to the tractor drawbar support or other specified anchor location. Allow only enough slack in the chain to permit turning.
- Always hitch the implement to the machine towing it. Do not use the safety chain to tow the implement.



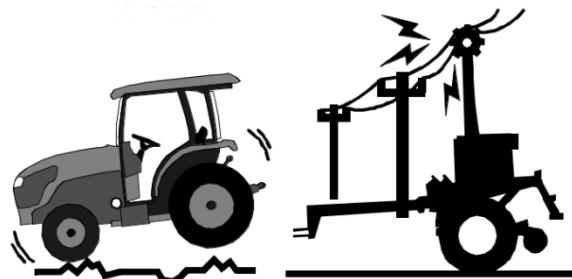
Towing Safely

- Comply with federal, state, and local laws.
- Use towing vehicle and trailer of adequate size and capacity. Secure equipment towed on a trailer with chocks, tie downs, and chains.
IMPORTANT: Do not tow a load that is more than double the weight of the vehicle towing the load.
- Sudden braking can cause a towed trailer to swerve unexpectedly. Reduce speed if trailer is not equipped with brakes.



Transport Safely

- Comply with federal, state, and local laws.
- Avoid contact with any overhead utility lines or electrically charged conductors.
- Engage park brake when stopped on an incline.
- Maximum transport speed for an implement is 30 km/h. DO NOT EXCEED.
- Never travel at a speed which does not allow adequate control of steering and stopping. Some rough terrains require a slower speed. Sudden braking can cause a towed load to swerve and upset.
- Do not tow an implement that, when fully loaded, weights more than 1.5 times the weight of towing vehicle.



Avoid Crystalline Silica (Quartz) Dust

Because crystalline silica is a basic component of sand and granite, many activities at construction sites produce dust containing crystalline silica. Trenching, sawing, and boring of material containing crystalline silica can produce dust containing crystalline silica particles. This dust can cause serious injury to the lungs (silicosis). There are guidelines which should be followed if crystalline silica (quartz) is present in the dust.



- Be aware of and follow OSHA (or other local, State, or Federal) guidelines for exposure to airborne crystalline silica.
- Know the work operations where exposure to crystalline silica may occur.
- Participate in air monitoring or training programs offered by the employer.
- Be aware of and use optional equipment controls such as water sprays, local exhaust ventilation, and enclosed cabs with positive pressure air conditioning if the machine has such equipment. Otherwise respirators shall be worn.
- Where respirators are required, wear a respirator approved for protection against crystalline silica containing dust. Do not alter respirator in any way. Workers who use tight-fitting respirators can not have beards/ mustaches which interfere with the respirator seal to the face.
- If possible, change into disposable or washable work clothes at the work site; shower and change into clean clothing before leaving the work site.
- Do not eat, drink, use tobacco products, or apply cosmetics in areas where there is dust containing crystalline silica.
- Store food, drink, and personal belongings away from the work area.
- Wash hands and face before eating, drinking, smoking, or applying cosmetics after leaving the exposure area.

Avoid Contact Blades

Keep away from rotating blades to avoid death or serious injury from blade contact.

- Stay away and keep hands, feet and body away from rotating blades, drivelines and parts until all moving elements have stopped.
- Do not put hands or feet under mower hood.
- Stop rotating blades disengage PTO and wait for blade to stop rotating before raising mower hood or swings.
- Stop look and listen before approaching the mower to make sure all rotating motion has stopped.
- If a material blockage occurs in the inlet or discharge areas of the mower, shut down tractor engine, disengage the PTO and wait for all rotating motions to stop. Place the tractor in park position, engage the parking brake and remove the key before leaving the operator's seat. Clear the blockage before processing with mowing. Be sure to keep feet and hands clear of the mower blades. If you raise the mower or swing to access the blockage, engage the swing lock up latch and securely block up the mower before placing any parts of the body beneath the mower.

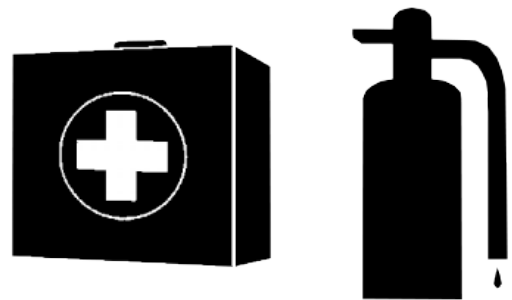
Maintenance Safety

- Good maintenance is your responsibility. Poor maintenance is an invitation to trouble.
- Follow good shop practices.

- Keep service area clean and dry.
- Be sure electrical outlets and tools are properly grounded.
- Use adequate light for the job at hand.
- Make sure there is plenty of ventilation. Never operate the engine of the tractor in a closed area. The exhaust gas may cause healthy problem.
- Before maintenance, shut off the tractor (See [Tractor Shutdown Procedure](#)).
- Allow equipment to cool before maintenance operation.
- Never work under the machine unless it is secured by a mechanical stand.
- Use personal protection devices such as safety goggles, hand gloves and hearing protectors, when performing any service or maintenance work. Use heavy gloves when handling blades.
- Only use original parts for service and maintenance.
- A fire extinguisher and first aid kit should be kept readily accessible while performing maintenance on this equipment.
- Periodically tighten all bolts, nuts and screws and check that all pins are properly installed to ensure unit is in a safe condition.
- Do not weld or torch on galvanized metal as it will release toxic fumes.
- Always make sure any material and waste products from the repair and maintenance of the implement are properly collected and disposed.
- Disconnect battery (If the implement has the battery) ground cable (-) before servicing or adjusting electrical systems or before welding on implement.
- Do not grease or oil implement while it is in operation.
- Do not work under any hydraulically supported equipment. It can settle, suddenly leak down, or be lowered accidentally. If it is necessary to work under the equipment, securely support it with stands or suitable blocking beforehand.
- When completing a maintenance or service function, make sure all safety shields and devices are installed before placing machine in service.

Preparation Before Maintenance

- Be prepared if a fire starts.
- Keep a first aid kit and fire extinguisher handy.
- Keep emergency numbers for ambulance, hospital and fire department near the working area.



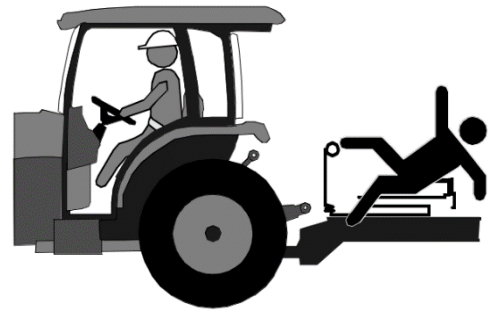
Personal Protective Equipment

- Wear protective clothing and equipment appropriate for the job such as safety shoes, safety glasses, hard hat, dust mask, and ear plugs.
- Clothing should fit snug without fringes and pull strings to avoid entanglement with moving parts.
- Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- Operating a machine safely requires the operator's full attention. Avoid wearing headphones while operating equipment.



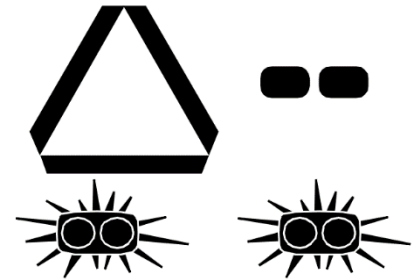
Keep Riders Off Machinery

- Never carry riders on the tractor or implement.
- Riders obstruct operator's view and interfere with the control of the power machine.
- Riders can be struck by objects or thrown from the equipment.
- Never use the tractor or implement to lift or transport riders.



Safety Lights and Devices

- A slow moving power machine can create a hazard when driven on public roads. They are difficult to see, especially at night.
- Flashing warning lights and turn signals are recommended whenever driving on public roads.
- For tractors and other agriculture equipment, a Slow Moving Vehicle (SMV) sign is required when traveling on public roads.



Seat Belt and ROPS

- We recommends the use of a CAB or roll-over-protective structures (ROPS) and seat belt in almost all power machines. Combination of a CAB or ROPS and seat belt will reduce the risk of serious injury or death if the power machine should be upset.
- If ROPS is in the locked-up position, fasten seat belt snugly and securely to help protect against serious injury or death from falling and machine overturn.



High Pressure Fluids Safety

- Escaping fluid under pressure will penetrate the skin or eyes causing serious injury.
- Relieve all residual pressure before disconnecting hydraulic lines or performing work on the hydraulic system.
- Make sure all hydraulic fluid connections are properly tightened/torqued and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- DO NOT DELAY. If an accident occurs, seek immediate emergency medical care or gangrene may result.



Handle Chemicals Properly

- Protective clothing should be worn.
- Handle all chemicals with care.
- Follow instructions on container label.
- Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil, and property.
- Inhaling smoke from any type of chemical fire can be a serious health hazard.
- Store or dispose of unused chemicals as specified by the chemical manufacturer.



Tire Maintenance Safety

- Tire changing can be dangerous and must be performed by trained personnel using the correct tools and equipment.
- Always properly match the wheel size to the properly sized tire.
- Always maintain correct tire pressure. Do not inflate tires above recommended pressures shown in the Operator's Manual.
- When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- Securely support the implement when changing a wheel.
- When removing and installing wheels, use wheel handling equipment adequate for the weight involved.
- Make sure wheel bolts have been tightened to the specified torque.



Storage and Disposal Safety

Storage Safety

1. Store the machine in an area away from human activity. Do not permit children to play on or around the stored machine.
2. Store the machine in a dry, level area.
3. Clean grease and oil as required and protect it from the elements.

Disposal Safety

1. Improper disposal of oil or other waste may be hazardous to the environment.
2. When oil is emptied from the machine, it must be poured into a leak-proof container suitable for oil. It is not permissible to store oil in a container used for food or drink, in order to avoid the oil being consumed by mistake and causing serious injury. It is prohibited to spill oil on the ground, or pour it into a drain or anywhere leading to a water source.
3. Discarded oil, fuel, coolant, brake fluid, filters and batteries may not be thrown away or emptied in just any way. Contact your local authority for further information.

Safety Labels

Your implement comes equipped with all safety labels in place. They were designed to help you safely operate your implement. Read and follow their directions.

1. Keep all safety labels clean and legible.
2. Replace all damaged or missing labels.
3. When ordering new components make sure the correct safety labels are included in the request.
4. Refer to steps below for proper label placement.
 - a) Clean surface area where label is to be placed.
 - b) Spray soapy water onto the cleaned area.
 - c) Peel backing from label and press label firmly onto the surface.
 - d) Squeeze out air bubbles with edge of a card or with a similar type of straight edge.

PRODUCT INTRODUCTION

Listed figure is common mower of G.AF160 that may or may not be applicable to the products described in this manual.

See Figure 2

Mowers are used for pasture clipping, crop residue shredding, heavy brush cutting, waterways, right-of-ways, roadside or highway mowing. Also, these mowers are used for cutting grass and other growth in public areas such as parks and cemeteries. Proper assembly, maintenance, and safe operating practices will help you get years of satisfactory use from this machine.

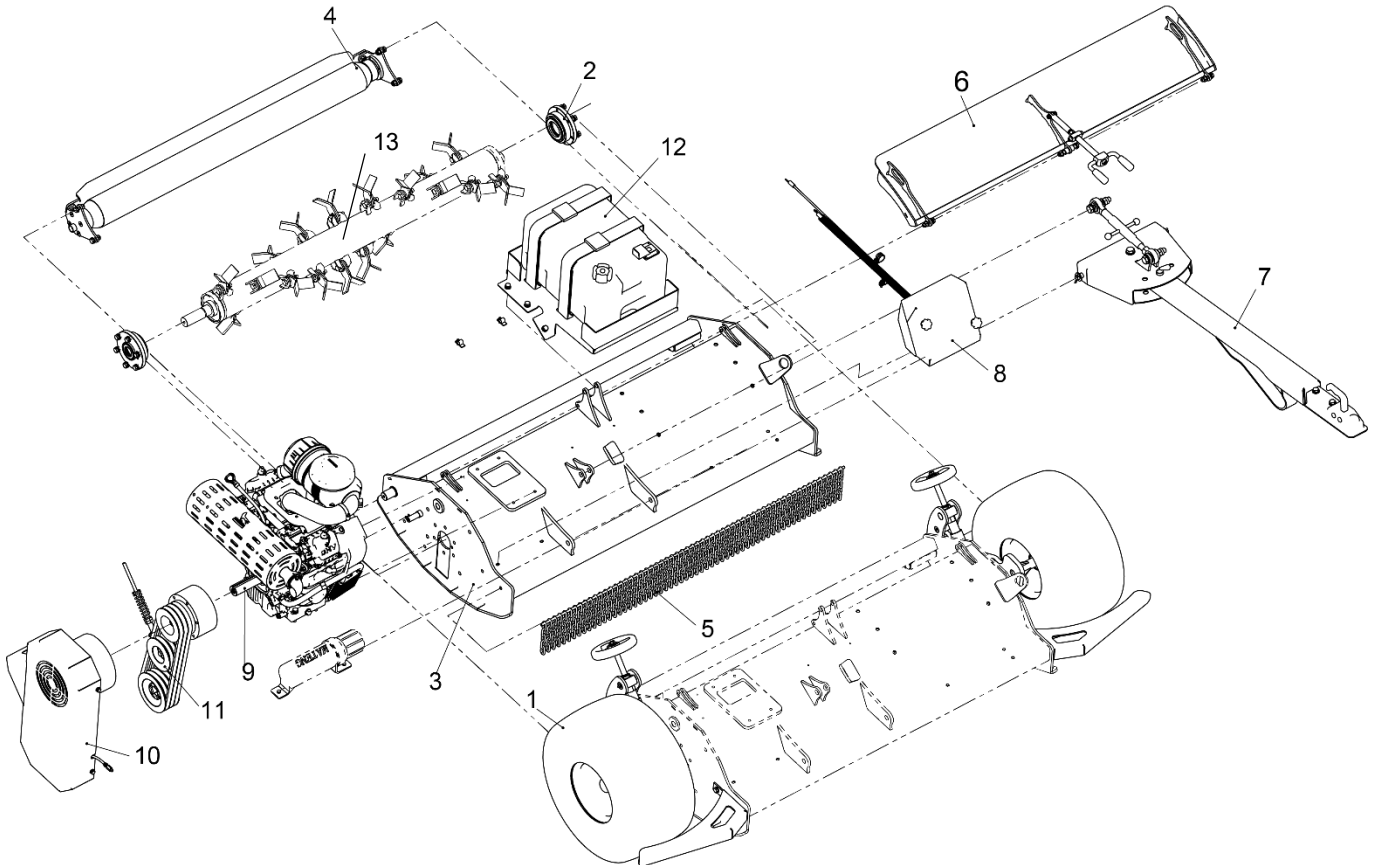


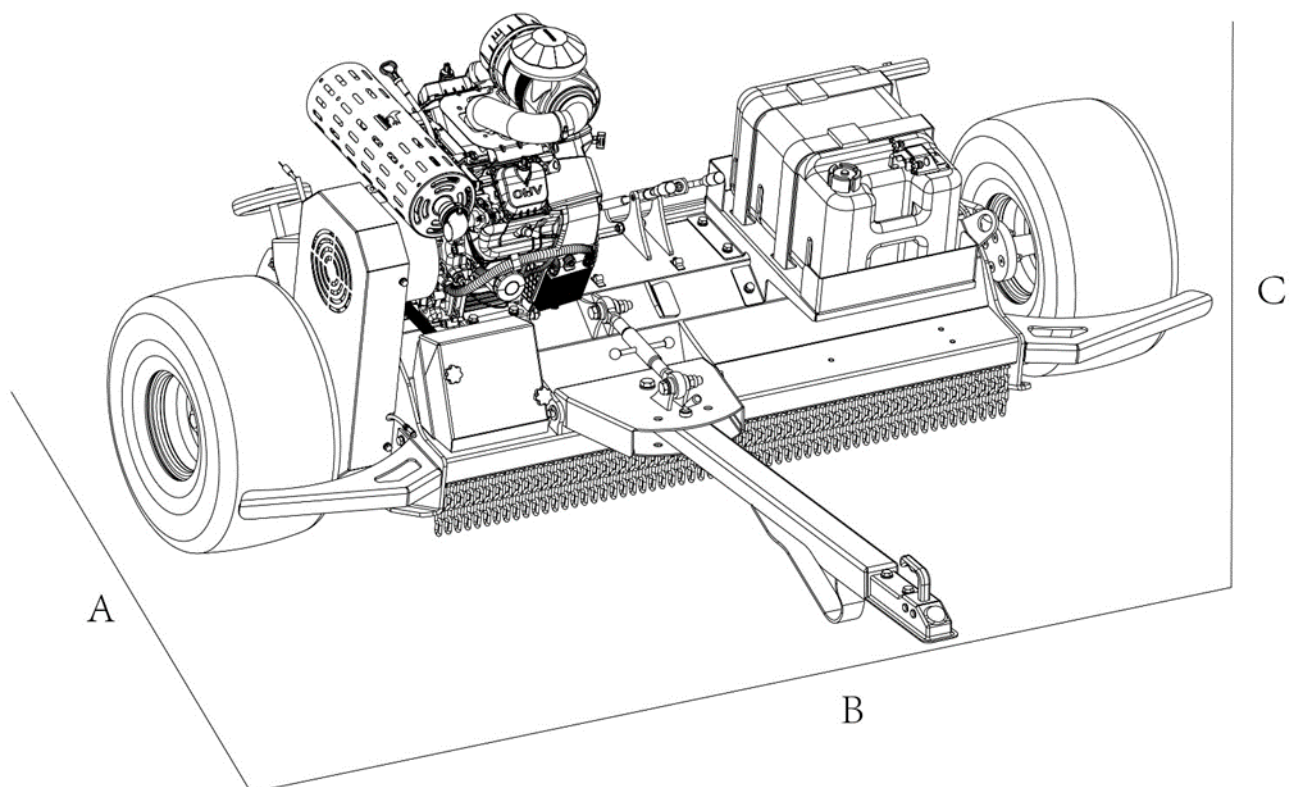
Figure 2

Main parts name and function list:





| Item | Name | Functional Description |
|------|--------------------------|--|
| 1 | Tire components | To realize operations such as driving, braking and steering of the machine. |
| 2 | Blade shaft bearing seat | Adjust the center between blade shaft and bearing seat automatically via self-aligning ball bearing when the mower moves to make sure the blade shaft runs normally. |
| 3 | Hood assembly | Protecting people from harm during cutting procedure. |
| 4 | Roller assembly | As the mower moves forward, the rotating Roller rolls the grass close to the ground, and the cut material is then flattened over the field. Roller has three adjustable height from which it adapts to different grass heights |




| Item | Name | Functional Description |
|------|------------------------------|---|
| 5 | Protection component | Prevent the material from being thrown out. |
| 6 | Rear cover assembly | Easy to maintenance the blades in the hood. |
| 7 | Traction assembly | For connection to ATV |
| 8 | Battery mounting kit | Start-up power |
| 9 | Engine mounting components 1 | Power the machine. |
| 10 | Side protection assembly | Protect the people or objects from harm of side driveline. |
| 11 | Side drive assembly | Transfer power generated by the engine to blade shaft and Roller. |
| 12 | OIL TANKS | Fuel supply to generators |
| 13 | Ordinary axle + blade | Cut the grass. Available with hammer blade. |

Technical Date




Implement specification table:

| Model | | G.AF160 |
|---|-----------|-------------|
| A | cm | 210 |
| B | | 250 |
| C | | 111 |
|  | cm | 160 |
|  | HP | 25 |
|  | RPM | 2300 |
|  | A (mm) | 108 |
| | B (mm) | 328 |

| | | |
|---|------------|-----|
| | V (m/s) | 40 |
|  | N | 24 |
|  | N | 3 |
|  | Kg | 380 |

Implement Identification

The identification nameplate is affixed to the frame of each implement. It contains the “CE” certification brand and information about (CE is only for European region, implement identification below is for reference): the Manufacturer, Type, Serial Number, Model Number, Weight. The nameplate (Shown in the below) is for reference only and is based on the real thing.

| | | | |
|----------------------------|-------------------------|---|----------------------|
| AGRI IMPLEMENT | |  | |
| MODELL MODELLO MODEL | <input type="text"/> | SERIENNUMMER NUMERO MATRICOLA SERIAL NUMBER | <input type="text"/> |
| GEWICHT PESO WEIGHT | KG <input type="text"/> | MAX PSI MAX BAR MAX BAR | <input type="text"/> |
| | | JAH ANNO YEAR | <input type="text"/> |
| MADE IN P.R.C. | | | |

UNPACKING

After unpacking, please check the components shown in **Figure 1**. If you have any problem, please contact us freely.

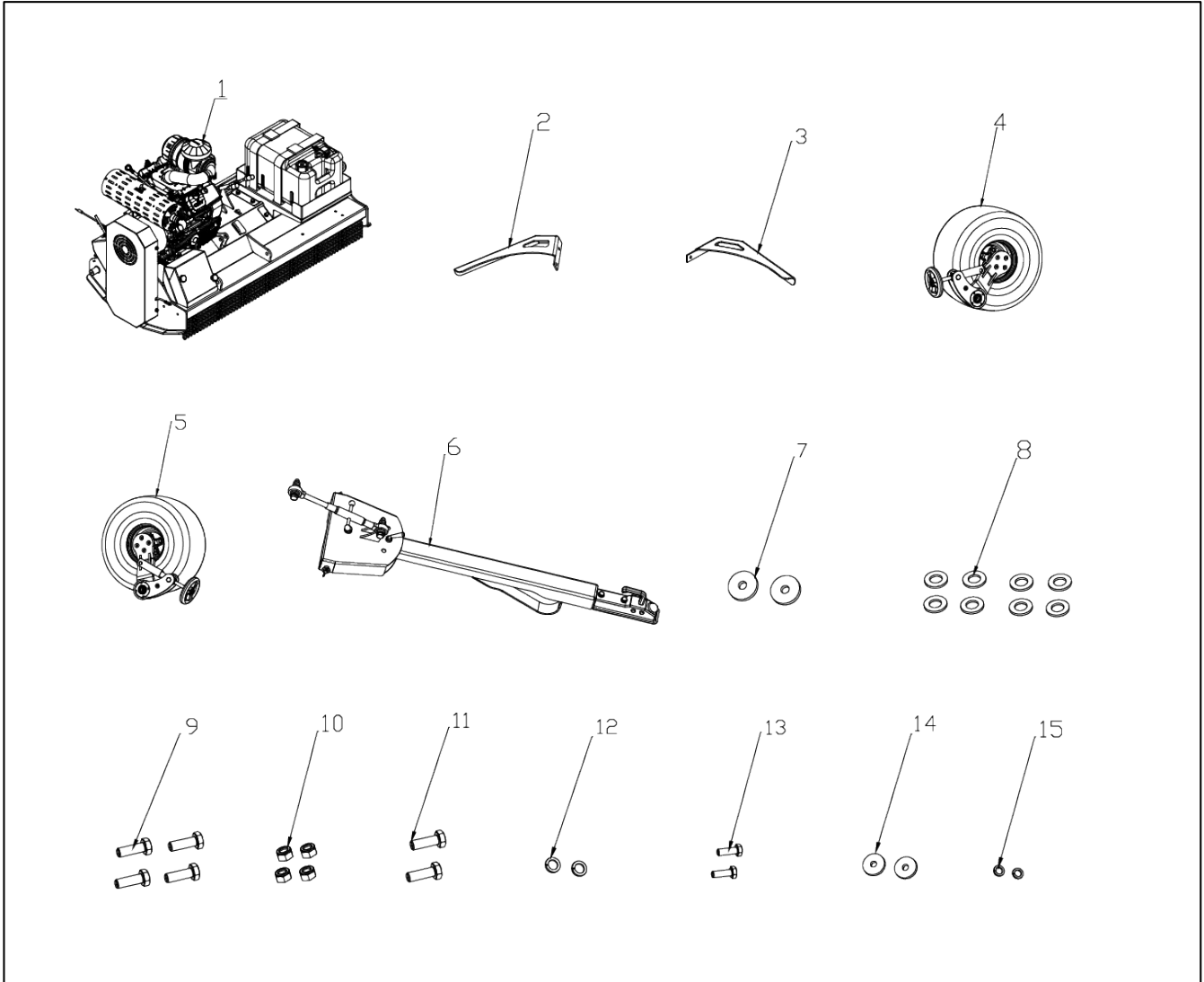


Figure 1

| | Specification | Description | Qty | Packing method |
|----|---------------------------|--|-----|----------------|
| 1 | / | Mainframe Components | 1 | single pack |
| 2 | G11001A13000-001 | Left guard plate | 1 | single pack |
| 3 | G11001A13000-012 | Right guard plate | 1 | single pack |
| 4 | | Left tyre assembly | 1 | single pack |
| 5 | | Right tyre assembly | 1 | single pack |
| 6 | G11001A09000-000 | Traction assembly | 1 | single pack |
| 7 | G11001A13000-009 | Adjustment shaft lever | 2 | Bale |
| 8 | GB/T95-10-EP•Zn | Plain washer | 8 | Bale |
| 9 | GB/T5783-M10×30-8.8-EP•Zn | Full Threaded Hex Bolts | 4 | Bale |
| 10 | GB/T889.1-M10-8-EP•Zn | 1 Non-metallic insert hexagonal locknuts | 4 | Bale |
| 11 | GB/T5783-M10×25-8.8-EP•Zn | Full Threaded Hex Bolts | 2 | Bale |
| 12 | GB/T93-10-EP•Zn | Standard spring washers | 2 | Bale |
| 13 | GB/T5783-M8×16-8.8-EP•Zn | Full Threaded Hex Bolts | 2 | Bale |
| 14 | GB/T96.2-8-EP•Zn | large washer | 2 | Bale |
| 15 | GB/T93-8-EP•Zn | Standard spring washers | 2 | Bale |

| Tools used for installation | | | | |
|-----------------------------|-----------------|---------------|--|-----|
| No | Description | Specification | Conditions of Use | QTY |
| 1 | Open end wrench | | M8、M10、 M12 、 M16 bolt fastening | 2 |
| 2 | Hex key | | M8、M10、 M12 、 M16 bolt fastening | 1 |
| 3 | hammer | | | 1 |
| 4 | Torque wrench | 10-220N.m | Measuring torque | 1 |
| 5 | Wind gun | 1280t | Match the corresponding sleeve instead of the wrench to tighten the bolt | 1 |

ASSEMBLY & SET-UP

Guard plate installation

1. Install the left and right guards to the side panels of the machine.
2. Insert M10 x 30 full-thread hexagonal bolts (#1), plain washer (#3), fixing locknuts (#2).
3. Apply correct torque, for all fasteners.

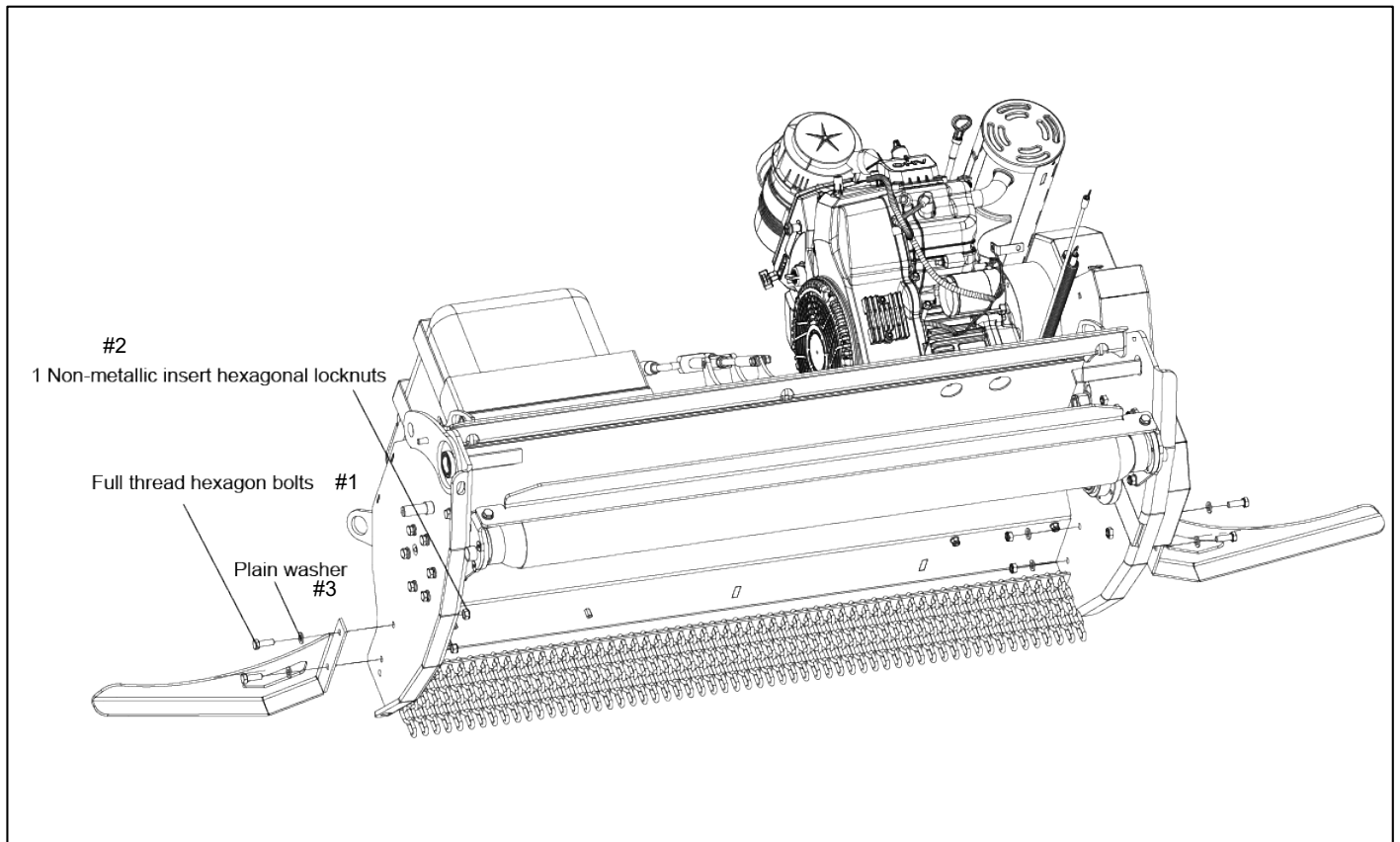


Figure 2

Tyre assembly installation

1. Install the tyre adjustment sleeve on the tyre assembly is connected to the adjustment mounting shaft on the side plate
 2. Insert M10 x 25 full-thread hexagonal bolts (#1), spring washers (#2) and adjustment board (#3).
 3. Connect the adjusting nut at the knuckle wheel to the side plate adjusting post
 4. Insert M8×16 full-thread hexagonal bolts (#4), spring washers (#5) , large plain washers(#6).
- (Note: For the right tyre assembly, loosen the belt guard plate, install it and then tighten the bolt.)

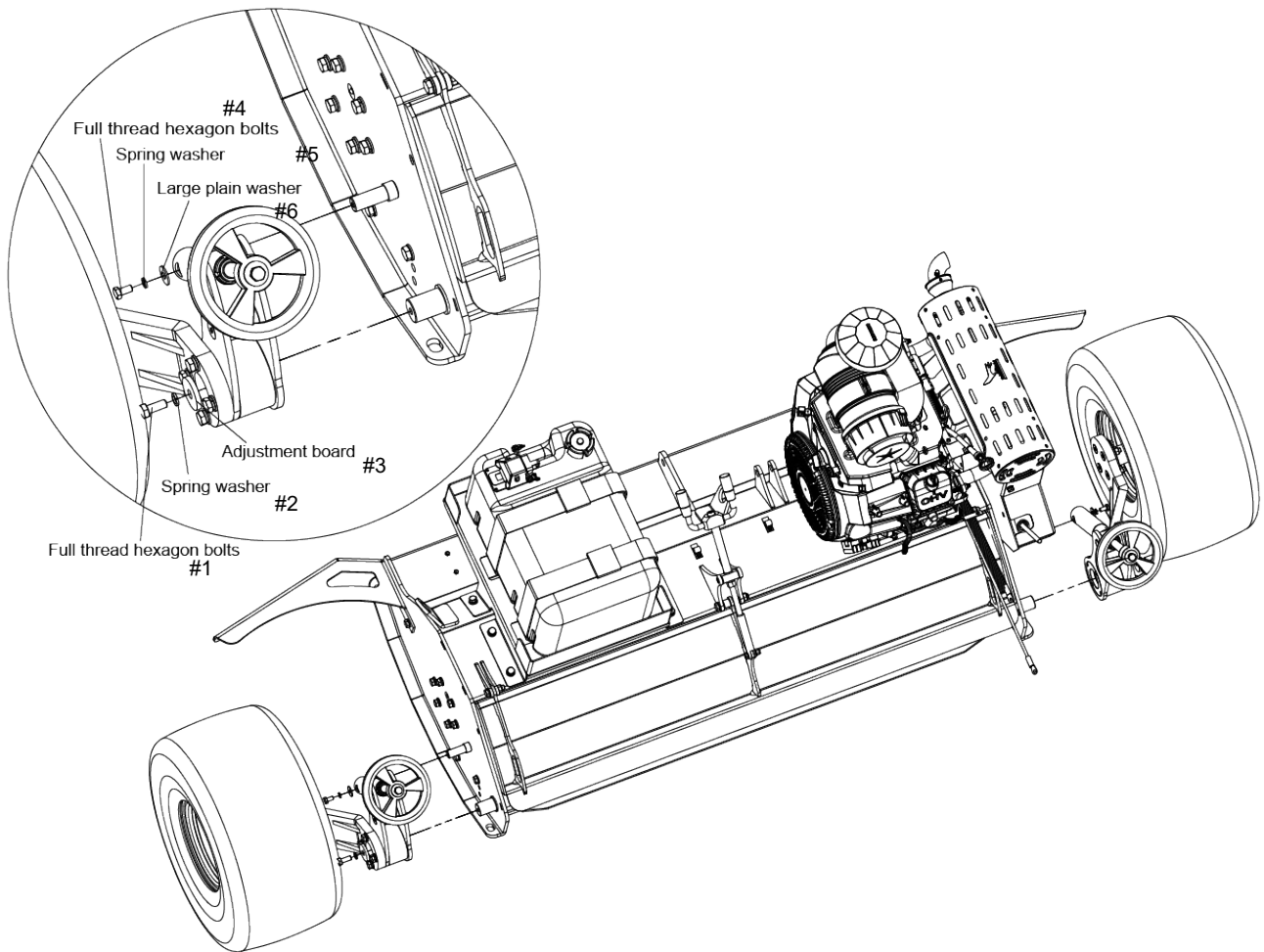


Figure 3

Traction assembly installation

1. Install the adjustable tie rods are mounted to tie rod holder plate 2 on the hood.
2. Insert M16 x 80 hexagonal bolts (#1), plain washer (#2) , M16 locknuts(#3).
3. Tie rod retainer plate mounted on the hood.
4. Insert Rod pin (#4), plain washer (#5), split pin (#6).

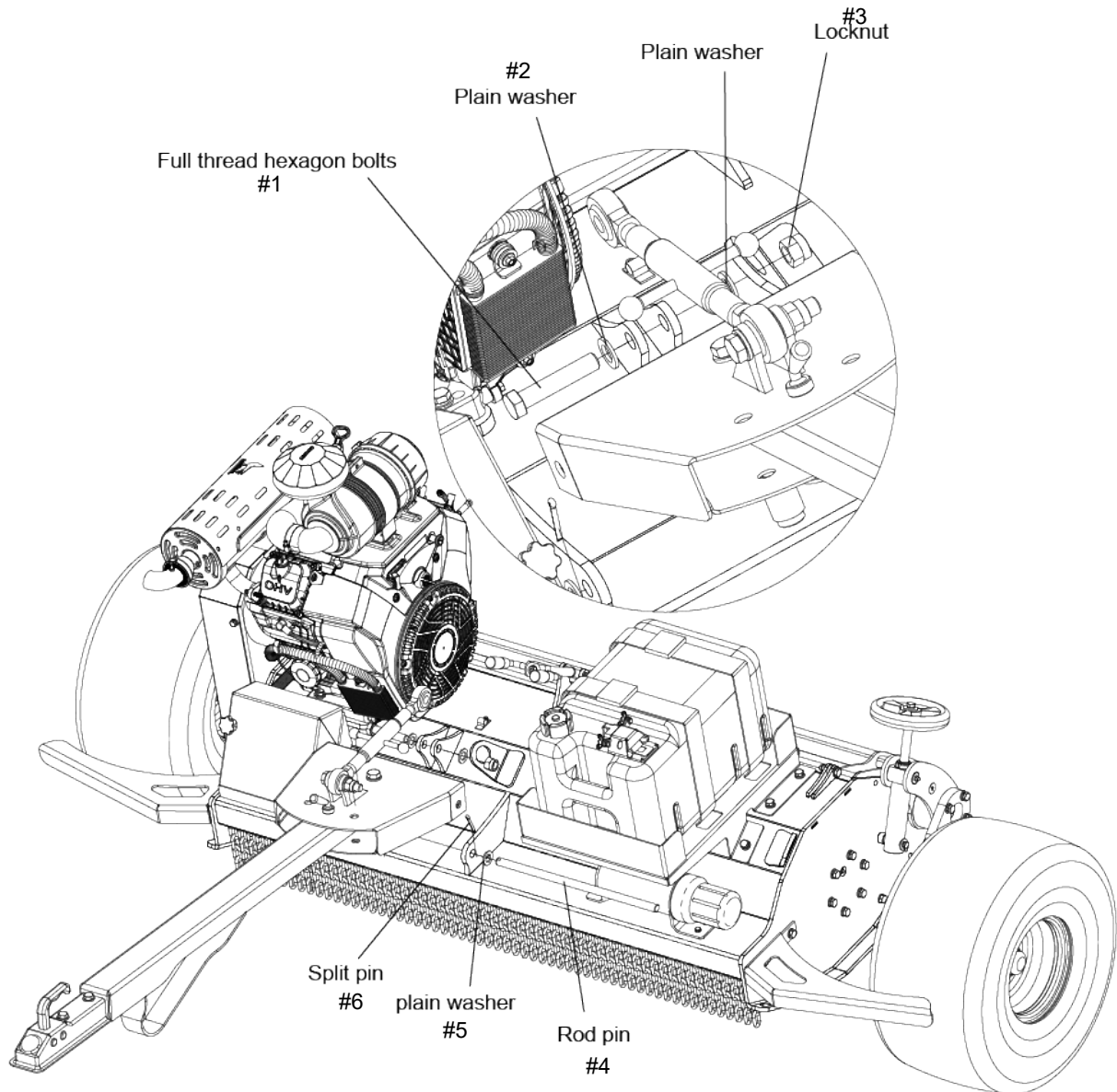


Figure 4

OPERATION

Checklist Before Operation

CAUTION

Hazard control and accident prevention are dependent upon the awareness, concern, prudence, and proper training involved in the operation, transport, storage, and maintenance of the mower.

Therefore, it is absolutely essential that no one operates the machine without first having read, fully understood, and become totally familiar with the Operator's Manual. Make sure all operators have completed the Checklist below.

Before operating the machine, the following steps should be inspected carefully:

1. Before operating the machine, the following steps should be carefully checked:.
2. Check and lubricate all grease points on the machine and drive shaft before starting the machine.
3. Check that the machine is properly attached to the ATV. Make sure retainers are used on the retaining pins.
4. Check the blades. Make sure they are not damaged or broken and swing freely on their bases. Repair or replace as required.
5. Check and tighten blade bolts.
6. Check all rotating parts for tangles. Remove such material.
7. Install and secure all guards, hooks and covers before starting.
8. All others must leave the area before connecting ATV drive power.
9. Stop the motor and take the key with you before cleaning, repairing and lubricating the machine.
10. Do not go near the machine while it is running.

Adjusting Roller/Skid Height

CAUTION

The roller must be adjusted into the same position on both sides.

The blades must never be less than 1" (2.5 cm) from the ground.

The skid shoes must be at least 3/4" (2 cm) off the ground when in operation.

There are three optional locations for roller height adjustment indicated

1. Park ATV and implement on a flat, level surface.
2. Lower ATV lift arms to bring the roller in contact with the ground and make sure the flail head is parallel with the ground.
3. Shut ATV down according to procedures mentioned in ATV manual.
4. Raise and secure the implement with solid and firm support blocks.
5. Untighten and remove the height adjustment bolt as well as associated washers and nuts;
6. Adjust roller to the desired height by choosing one of the three locations;

7. Secure the bolts with removed washers and nuts;
8. Accordingly adjust the skid shoe by untightening the bolts as well as associated washers and nuts.
9. Inspect blades to make sure they do not touch the ground. Blades that come in contact with the ground will wear quickly. If necessary, readjust cutting height to keep blades from touching the ground.

Adjusting the Belt

CAUTION

- Always shut tractor down before servicing, adjusting, cleaning, or maintaining this implement
- Always wear appropriate PPE, such as gloves, safety glasses, and hearing protection to protect yourself from any potential hazards.
- Block the mower securely in place to prevent any movement during the adjustment process.
- Excessive tension on the belt may lead to premature failure of belt and drive components. Excessive tension on the belt may also lead to a safety hazard to the operator or bystanders.
- The Belt tension should be checked after the first 20 hours of use and every 40 hours thereafter.
- Check belt tension by applying approximately 22 pounds of pressure half way between the pulleys. The belt should deflect approximately 3/8".

See *Figure 5*

Belt tension adjustment steps:

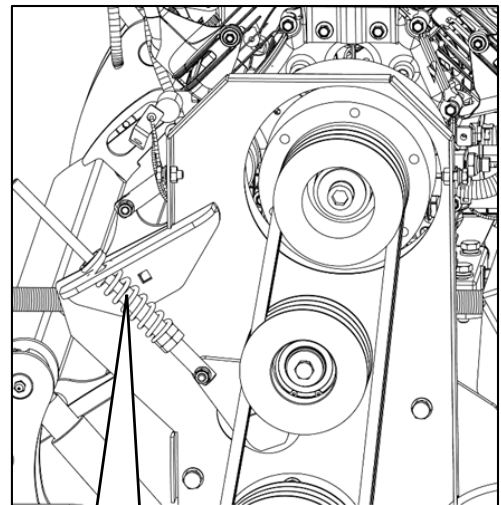
Loosen the bolts, split lock washers and common washers to remove the belt guard;

Loosen the jamb nut;

Turn the adjusting nut until desired belt tension is achieved;

Tighten the jamb nut;

Put back the belt guard by tightening the removed bolts and washers.

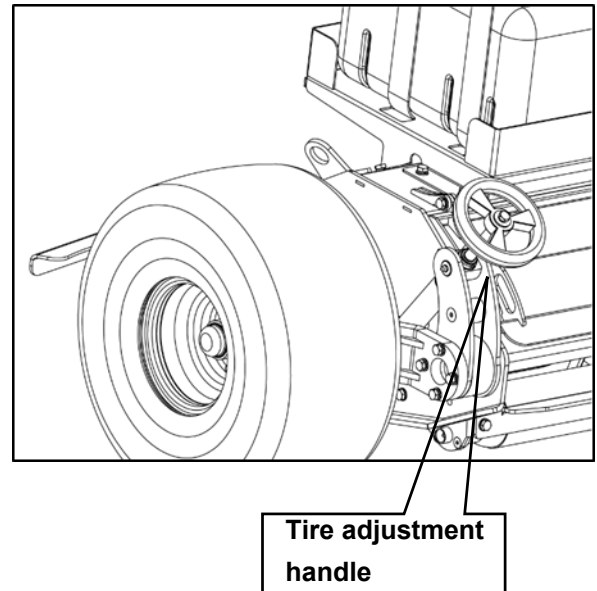


Belt Tension Bolt

Tire adjustment handle

Figure 6

Adjusting the steering wheel on either side allows you to adjust the height of the tyres, raising or lowering them.



Drawbar Offsetting

WARNING

- **Changing the drawbar angle must be undertaken with the engine switched off & the ignition keys removed. Failure to do so could result in injury or damage to the machine**

Figure 7

The drawbar can be offset to the left or right horizontally as well as be tilted vertically as indicated.

Pull up and bend the handle of quick fastener 90° downward;

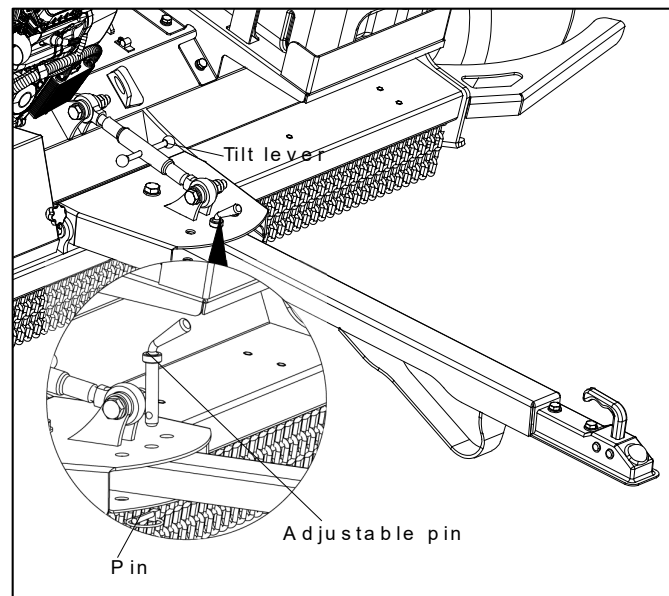
Untighten the quick fastener and the bolt collar by turning the handle;

Move the drawbar horizontally into the desired location;

Push down and tighten the quick fastener and the bolt collar;

Lift the handle to be in vertical position.

Rotate the tilt lever to incline the drawbar upward or downward for better compatibility with the towing vehicle.



Starting the Machine

WARNING

- The flail mower must only be in the working position while moving forward and must be raised when backing-up. Operating the flail mower in the working position while backing-up can seriously damage the flail mower.
- Never use the flail mower with the tractor straddling a ditch.
- Only operate the flail mower inclined when in the lateral extended configuration. When the mower is in the center configuration, only operate it horizontally.
- Make sure that there are no persons or animals in the vicinity.

DANGER

To avoid ATV overturning hazard

- Never allow the ATV to take the weight of the flail mower when working on inclined surfaces (ditches, slopes etc.), as the combined weight of the ATV and flail mower may cause the ATV to overturn.
- Lightweight ATV with rear attached implements may need weights added to the front to maintain steering control.
- Consult your ATV Operator's Manual to determine proper weight requirements and maximum weight limitations.
- Survey any incline surface the ATV will be traveling on for holes and low depressions in the ground that the ATV wheel can drop into suddenly causing the ATV to overturn unexpectedly. Avoid such drop-offs.

Inspection Before Starting

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

1. Whether the engine is connected to the power supply
2. Oil level in fuel tank.
3. Lubricant nipples on bearings.
4. All bolts, nuts, and screws.

SERVICE AND MAINTENANCE

General Service





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

Each 4 hours of work:

Check and tighten nuts and bolts..

Lubrication Parts

Lubrication parts :

| Interval | Type | Name | Parts Image | Remark |
|--|--|--------------------|---|--|
|  |  Multi- purpose Grease | Other parts |  | If the GREASE labels () are posted on the machine, you need to lubricate it regularly. Recommend lubrication interval is 25hours. |

Tightening Torque

Please follow the table below to identify the torque value as required.

| Torque Values Chart for Common Bolt Sizes | | | | | | | | | | | | | |
|---|--------------------------|--------------------|---------|-------|---------|-------|-------------------------|--------------------------|-------|-----------|-------|------------|-------|
| Bolt Size (inches) | Bolt Head Identification | | | | | | Bolt Size (Metric) | Bolt Head Identification | | | | | |
| | Grade 2 | | Grade 5 | | Grade 8 | | | Class 5.8 | | Class 8.8 | | Class 10.9 | |
| in-tpi ¹ | N · m ² | ft-lb ³ | N · m | ft-lb | N · m | ft-lb | mm x pitch ⁴ | N · m | ft-lb | N · m | ft-lb | N · m | ft-lb |
| 1/4" - 20 | 7.4 | 5.6 | 11 | 8 | 16 | 12 | M 5 X 0.8 | 4 | 3 | 6 | 5 | 9 | 7 |
| 1/4" - 28 | 8.5 | 6 | 13 | 10 | 18 | 14 | M 6 X 1 | 7 | 5 | 11 | 8 | 15 | 11 |
| 5/16" - 18 | 15 | 11 | 24 | 17 | 33 | 25 | M 8 X 1.25 | 17 | 12 | 26 | 19 | 36 | 27 |
| 5/16" - 24 | 17 | 13 | 26 | 19 | 37 | 27 | M 8 X 1 | 18 | 13 | 28 | 21 | 39 | 29 |
| 3/8" - 16 | 27 | 20 | 42 | 31 | 59 | 44 | M10 X 1.5 | 33 | 24 | 52 | 39 | 72 | 53 |
| 3/8" - 24 | 31 | 22 | 47 | 35 | 67 | 49 | M10 X 0.75 | 39 | 29 | 61 | 45 | 85 | 62 |
| 7/16" - 14 | 43 | 32 | 67 | 49 | 95 | 70 | M12 X 1.75 | 58 | 42 | 91 | 67 | 125 | 93 |
| 7/16" - 20 | 49 | 36 | 75 | 55 | 105 | 78 | M12 X 1.5 | 60 | 44 | 95 | 70 | 130 | 97 |
| 1/2" - 13 | 66 | 49 | 105 | 76 | 145 | 105 | M12 X 1 | 90 | 66 | 105 | 77 | 145 | 105 |
| 1/2" - 20 | 75 | 55 | 115 | 85 | 165 | 120 | M14 X 2 | 92 | 68 | 145 | 105 | 200 | 150 |
| 9/16" - 12 | 95 | 70 | 150 | 110 | 210 | 155 | M14 X 1.5 | 99 | 73 | 155 | 115 | 215 | 160 |
| 9/16" - 18 | 105 | 79 | 165 | 120 | 235 | 170 | M16 X 2 | 145 | 105 | 225 | 165 | 315 | 230 |
| 5/8" - 11 | 130 | 97 | 205 | 150 | 285 | 210 | M16 X 1.5 | 155 | 115 | 240 | 180 | 335 | 245 |
| 5/8" - 18 | 150 | 110 | 230 | 170 | 325 | 240 | M18 X 2.5 | 195 | 145 | 310 | 230 | 405 | 300 |
| 3/4" - 10 | 235 | 170 | 360 | 265 | 510 | 375 | M18 X 1.5 | 220 | 165 | 350 | 260 | 485 | 355 |
| 3/4" - 16 | 260 | 190 | 405 | 295 | 570 | 420 | M20 X 2.5 | 280 | 205 | 440 | 325 | 610 | 450 |
| 7/8" - 9 | 225 | 165 | 585 | 430 | 820 | 605 | M20 X 1.5 | 310 | 230 | 650 | 480 | 900 | 665 |
| 7/8" - 14 | 250 | 185 | 640 | 475 | 905 | 670 | M24 X 3 | 480 | 355 | 760 | 560 | 1050 | 780 |
| 1" - 8 | 340 | 250 | 875 | 645 | 1230 | 910 | M24 X 2 | 525 | 390 | 830 | 610 | 1150 | 845 |
| 1" - 12 | 370 | 275 | 955 | 705 | 1350 | 995 | M30 X 3.5 | 960 | 705 | 1510 | 1120 | 2100 | 1550 |
| 1-1/8" - 7 | 480 | 355 | 1080 | 795 | 1750 | 1290 | M30 X 2 | 1060 | 785 | 1680 | 1240 | 2320 | 1710 |
| 1-1/8" - 12 | 540 | 395 | 1210 | 890 | 1960 | 1440 | M36 X 3.5 | 1730 | 1270 | 2650 | 1950 | 3660 | 2700 |
| 1-1/4" - 7 | 680 | 500 | 1520 | 1120 | 2460 | 1820 | M36 X 2 | 1880 | 1380 | 2960 | 2190 | 4100 | 3220 |
| 1-1/4" - 12 | 750 | 555 | 1680 | 1240 | 2730 | 2010 | | | | | | | |
| 1-3/8" - 6 | 890 | 655 | 1990 | 1470 | 3230 | 2380 | | | | | | | |
| 1-3/8" - 12 | 1010 | 745 | 2270 | 1670 | 3680 | 2710 | | | | | | | |
| 1-1/2" - 6 | 1180 | 870 | 2640 | 1950 | 4290 | 3160 | | | | | | | |
| 1-1/2" - 12 | 1330 | 980 | 2970 | 2190 | 4820 | 3560 | | | | | | | |

¹ in-tpi = nominal thread diameter in inches-threads per inch
² N · m = newton-meters
³ ft-lb = foot pounds
⁴ mm x pitch = nominal thread diameter in millimeters x thread pitch

Torque tolerance + 0%, -15% of torquing values. Unless otherwise specified use torque values listed above.
 All locknuts or lubricated fasteners: Use 75% of torque value. (i.e. 1/2"-13 GR5 = 76 ft-lb; 75% of 76 or .75 x 76 = 57 ft-lb)

Replacing the Blade

Frequently check rotor blades to make sure they are in good working condition and properly secured to the rotor.

Replace worn or damaged parts with new blades.

IMPORTANT:

- Make sure that the replacement of blade with other same weight. This will be a balance of rotor spinning.
- Recommend blade is the original factory accessories.

The blade have a Crushing edge on both the leading and trailing edges.

When the leading edge wears out, turn existing pair of blade around 180 ° and reinstall. Replaced blades should be the same length as original parts to maintain rotor balance. Refer to Figure 16 and 17:

Hammer blades replacement steps (See **Figure 8**):

1. Remove locknut (#4), spring washer (#3), hexagon head bolt (#2).
2. Remove existing blade (#1)
3. Install a new blade.
4. Install blade with bolt, spring washer and locknut, refer to **Figure 8**.
5. Tighten locknut with correct torque.
6. Lubricate points.

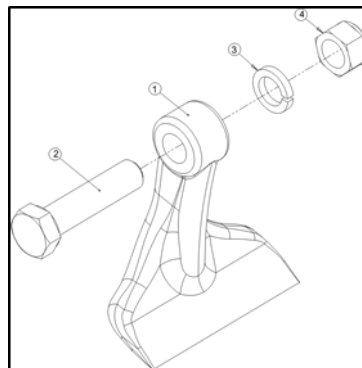


Figure 8

Note: If the images shown in the above figure are different from the machine, please check [EXPLODED VIEW AND PARTS LIST](#).

STORAGE AND TRANSPORT

Storage

Before storage the implement, you should following the steps below:

1. Remove any dirt and grease that may have accumulated on the mower and moving parts. Scrape off compacted dirt from under the hood. Clean the machine inside and out so as to avoid corrosion.
2. Check rotor, blades, blade mounts, and blade bolts for wear and replace if necessary.
3. Don't spray water on the rolling bearing if you clean the machine with high pressure sprayer.
4. Check and clean the universal joint, driving belt press roller, or replace them if they are not in good condition. Lubricate wherever needed.
5. Recoat the parts rubbed and damaged for anti-corrosion.
6. Store the machine in a dry, level area.

Transport

WARNING

- Always disengage power take-off before raising mower to transport position.
- When traveling on roadways, travel in such a way that other vehicles may pass you safely. Always use LED lights, clean reflectors, and a slow moving vehicle sign that is visible from the back to warn operators in other vehicles of your presence.
- Always comply with all federal, state, and local laws.

Before transport the implement, you should following the steps below:

1. When raising mower to transport position, be sure driveline does not contact tractor or mower. If needed, adjust and set tractor 3-point lift height to limit mower movement and to protect driveline.
2. Be sure to reduce tractor ground speed when turning, leaving enough clearance so that the mower does not contact obstacles such as buildings, trees, fences, etc.
3. Select a safe ground travel speed when transporting from one area to another. When traveling on roadways, transport in such a way that faster moving vehicles may pass safely.
4. When traveling over rough or hilly terrain, shift tractor to a lower gear.

TROUBLESHOOTING

Listed general troubleshooting is the common malfunction that may or may not be application to the described in this manual. If you have any problem not covered in the list, please contact us for technical supporting.

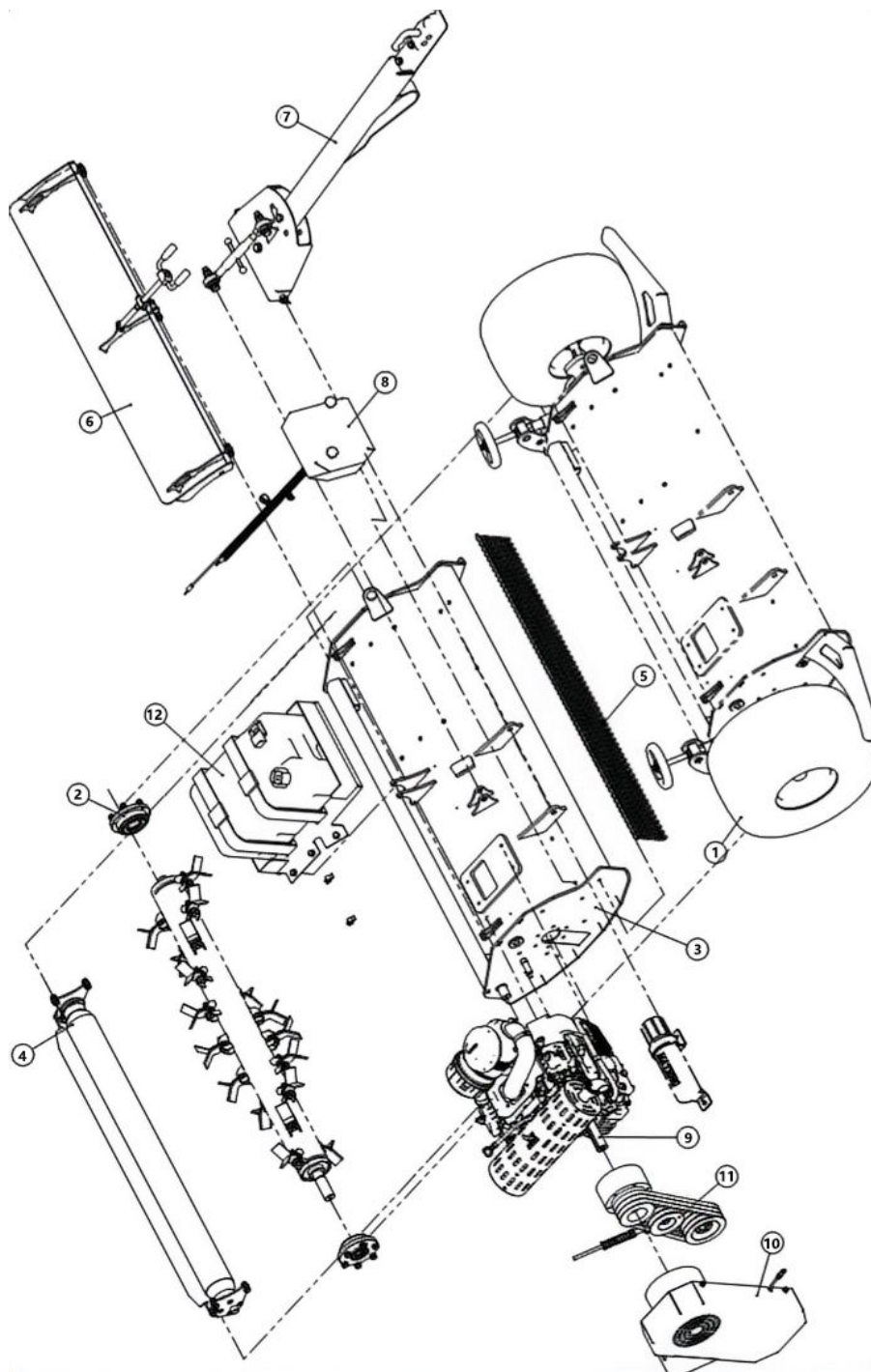
General troubleshooting list:

| Malfunction | Possible Cause | Solution |
|---|--|--|
| Belt slippage | Blades touch the ground | Adjust the skids or roller correctly |
| | Belts worn | Replace a new belts |
| | Belt is not tensioned correctly | Correct belt tension, see Adjusting the Belt |
| | Belt tensioner is damaged | Replace a new one |
| | Clogging | Clean the machine to remove accumulated debris. |
| Belt failure | Incorrect belt alignment | Align the belts. |
| | Belt tensioner spring has lost its memory or is broken | Replace belt tensioner spring and belts. |
| Significant machine vibration | Worn blades | Replace the blades |
| | Missing | |
| | Broken blades | |
| | Worn rotor support bearings | Replace the bearings |
| | Rotor fouled with debris | Clean rotor |
| | Loose parts | Tighten bolts and fasteners |
| | Incorrect power take-off speed | Select correct tractor power take-off speed |
| Excessively rapid blade wear | Blades touching the ground | Check and, if necessary, adjust cut height. |
| Blades tear rather than cut, shredded material not distributed evenly | Ground speed too high | Reduce the speed |
| | Cut height too low | Adjust cut height |
| | Excessive build-up of material under the flail head | Clean the flail head |
| | Clogging | Clean the machine to remove accumulated debris |
| Roller does not turn easily | Insufficient greasing | Grease as indicated |
| | Roller casing bearings worn | Replace the bearings |

| Malfunction | Possible Cause | Solution |
|---------------------------|----------------------------------|--|
| | Roller or mounts damaged or bent | Replace damaged parts |
| Excessive driveline noise | Insufficient greasing | Apply grease as indicated in the Maintenance section |
| | Worn trunnion bearing | Replace bearings |
| | Exceeds 25 degrees | Do not exceed 25 degrees |
| Unit overheating | Not enough oil in the unit | Check seals and gaskets and replace any that are damaged |
| | | Top off the oil |
| | Incorrect oil type | Replace with the prescribed type of oil |
| | Excessive oil | Restore correct oil level |
| | Overloading | Observe the prescribed speed and power conditions |

EXPLODED VIEW AND PARTS LIST

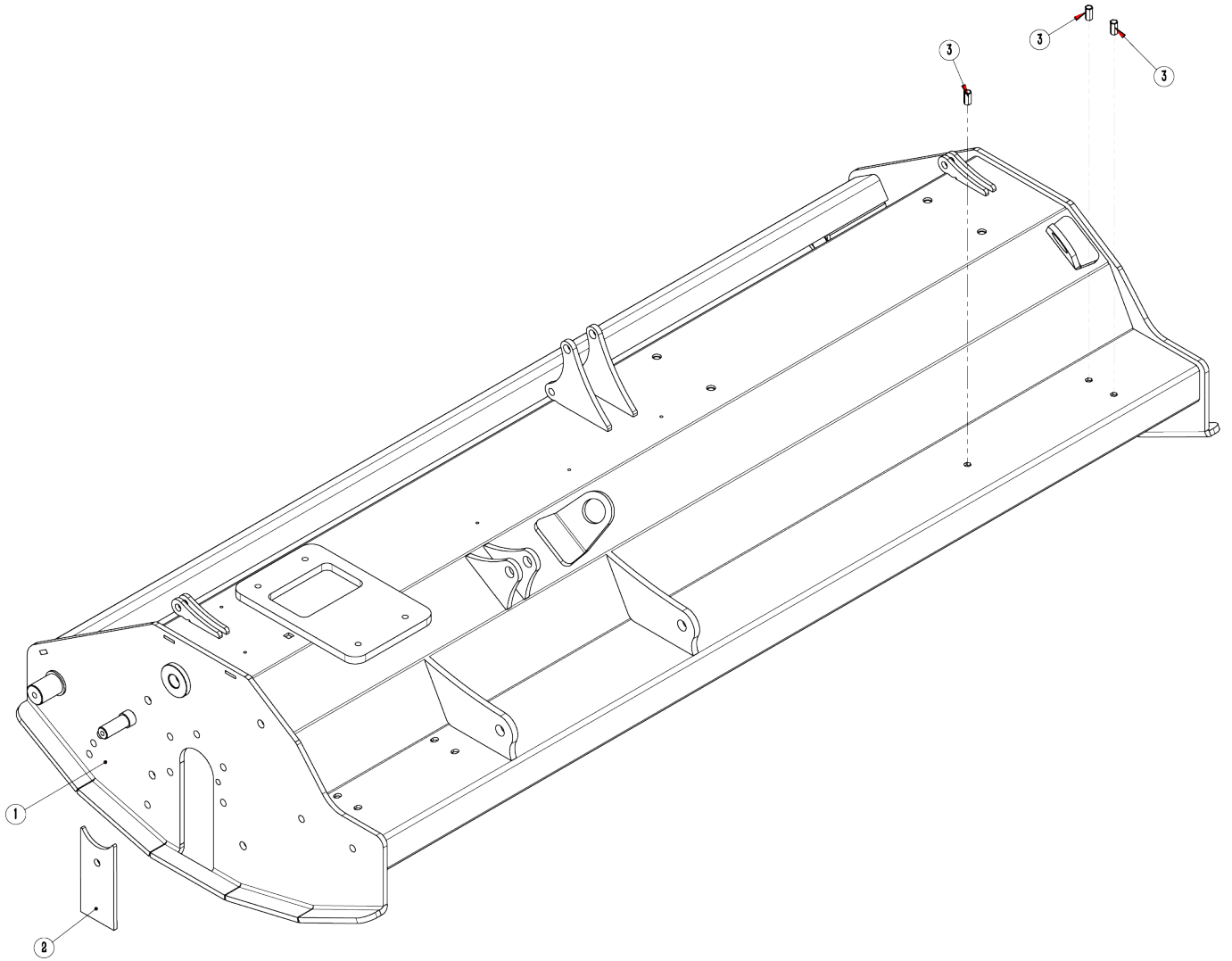
MACHINE ASSEMBLY



| POS. | COD. | Specification | Description | Qty |
|------|------------|------------------|-------------------------------------|-----|
| 1 | 2060105467 | G11001A13000-000 | Tire components | 1 |
| 2 | 2060105468 | G11001A04000-000 | Cutter shaft bearing block assembly | 1 |
| 3 | 2060106704 | G11003A01000-000 | Hood assembly | 1 |

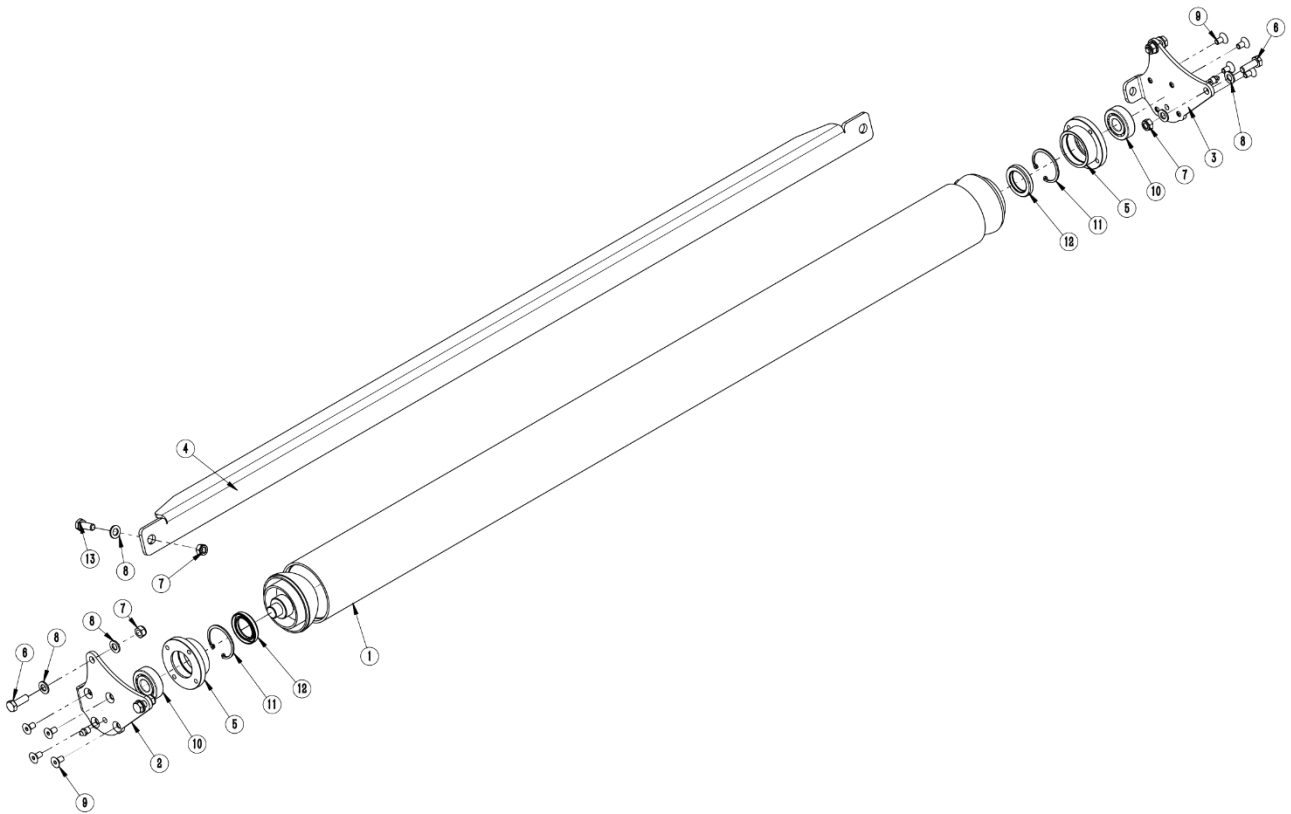
| | | | | |
|----|------------|------------------|--------------------------------|---|
| 4 | 2060106705 | G11003A03000-000 | Roller assembly | 1 |
| 5 | 2060106706 | G11003A10000-000 | Protection assembly | 1 |
| 6 | 2060106707 | G11003A05000-000 | Rear cover assembly | 1 |
| 7 | 2060105474 | G11001A09000-000 | Traction assembly | 1 |
| 8 | 2060105475 | G11001A15000-000 | Battery mounting kit | 1 |
| 9 | 2060105476 | G11001A14000-000 | Engine mounting assembly | 1 |
| 10 | 2060105477 | G11001A08000-000 | Side protection cover assembly | 1 |
| 11 | 2060105466 | G11001A07000-000 | Side drive assembly | 1 |
| 12 | 2090005594 | G11003A16000-000 | Oil tank | 1 |

HOOD ASSEMBLY



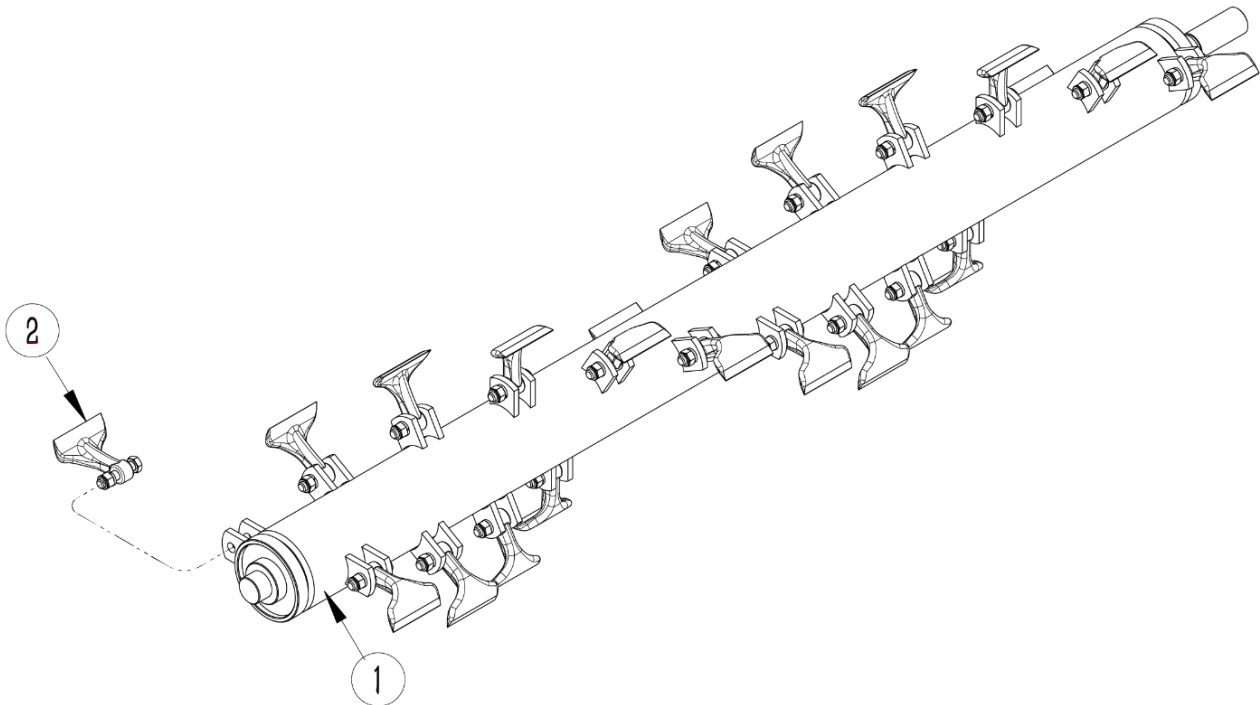
| POS. | COD. | Specification | Description | Qty |
|------|------------|------------------|--|-----|
| 1 | 2020001994 | G11001A01100-000 | Panel hood weldment | 1 |
| 2 | 2000001001 | G11001A01000-001 | Side plate | 1 |
| 3 | 3051800002 | M6×18-8-EP•Zn•P | Small countersunk full hexagon rivet nut | 3 |

ROLLER ASSEMBLY



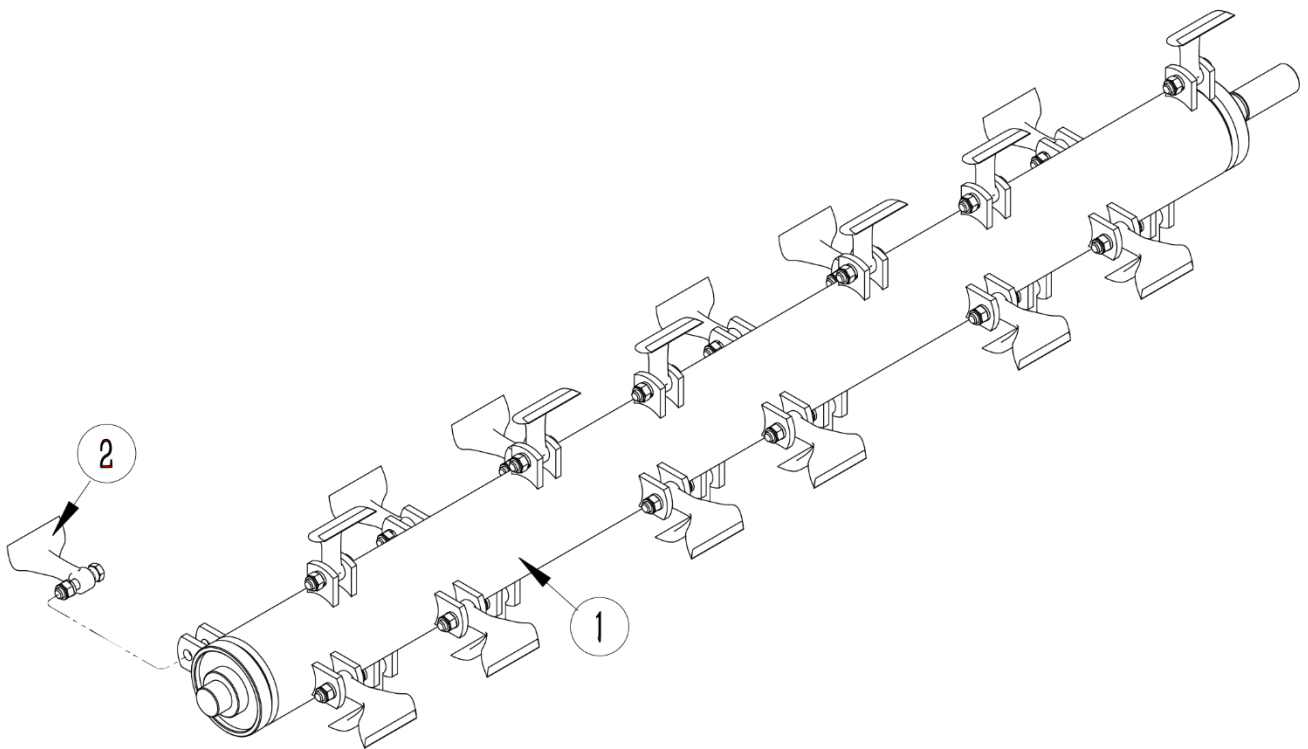
| POS. | COD. | Specification | Description | Qty |
|------|------------|-----------------------------|-----------------------------|-----|
| 1 | 2020001999 | G11001A03100-000 | Drum welding parts | 1 |
| 2 | 2000001004 | G11001A03000-001 | Drum left adjustment plate | 1 |
| 3 | 2000001002 | G11001A03000-002 | Drum right adjustment plate | 1 |
| 4 | 2000001011 | G11001A03000-003 | Scraper | 1 |
| 5 | 3240300005 | G01009A03000-001 | Bearing Block | 2 |
| 6 | 3040100045 | GB/T5783-M10×30- 8.8-EP•Zn | Full-thread hexagon bolts | 4 |
| 7 | 3050500004 | GB/T889.1-M10-8-EP•Zn | Locknut | 6 |
| 8 | 3080100006 | GB/T95-10-EP•Zn | Plain washer | 10 |
| 9 | 3060200017 | GB/T70.3-M8×16-8.8-EP•Zn | HSCS-Countersunk | 8 |
| 10 | 3100200006 | GB/T281-1304 | Self-aligning ball bearing | 2 |
| 11 | 3080600033 | GB/T893-52-A | Circlips for holes | 2 |
| 12 | 3170100007 | GB/T13871.1-FB- 35×52×8-NBR | shaft seal | 2 |
| 13 | 3040100043 | GB/T5783-M10×25- 8.8-EP•Zn | Full-thread hexagon bolts | 2 |
| 14 | 3170400005 | DIN71412-A G1/8 304 | Grease nipple | 2 |

BLADE ASSEMBLY



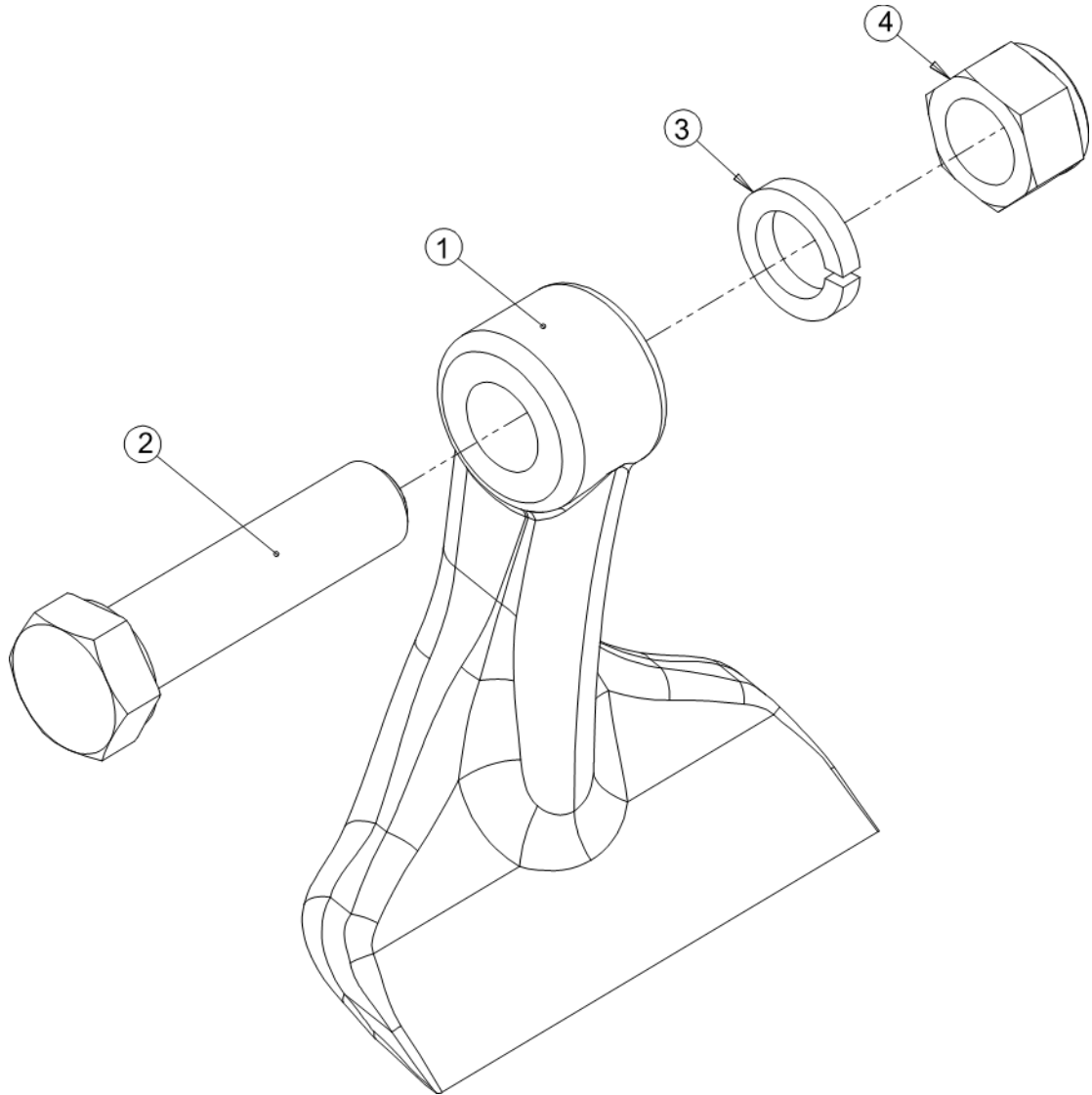
| POS. | COD. | Specification | Description | Qty |
|------|------------|------------------|---------------------|-----|
| 1 | 2020002006 | G11001A02100-000 | Knife shaft welding | 1 |
| 2 | 2060205384 | G11006A02200-000 | Blade components | 24 |

Option



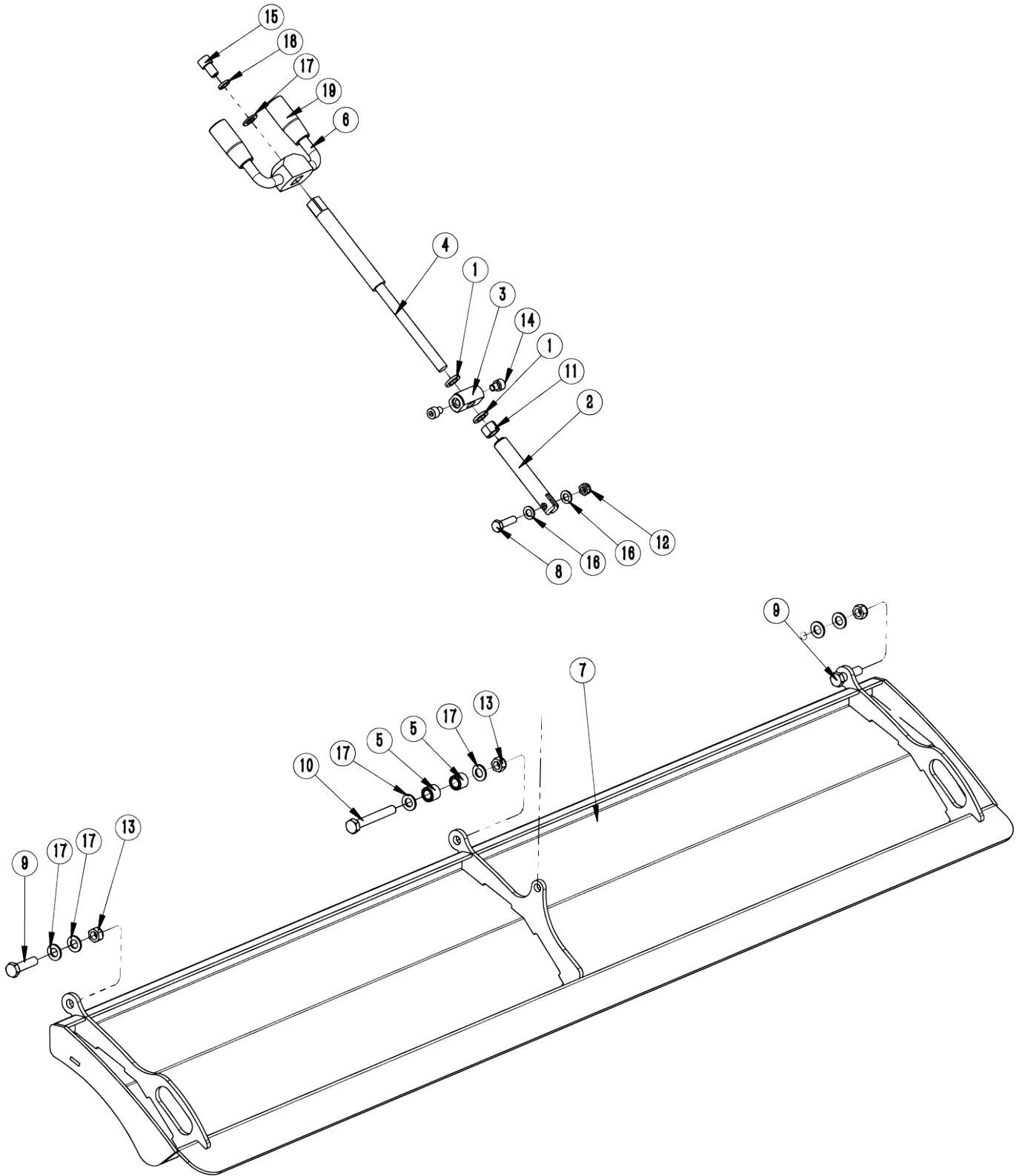
| POS. | COD. | Specification | Description | Qty |
|------|------------|------------------|---------------------|-----|
| 1 | 2020002058 | G11001B02100-000 | Knife shaft welding | 1 |
| 2 | 2060205384 | G11006A02200-000 | Blade components | 24 |

AXLE ASSEMBLY



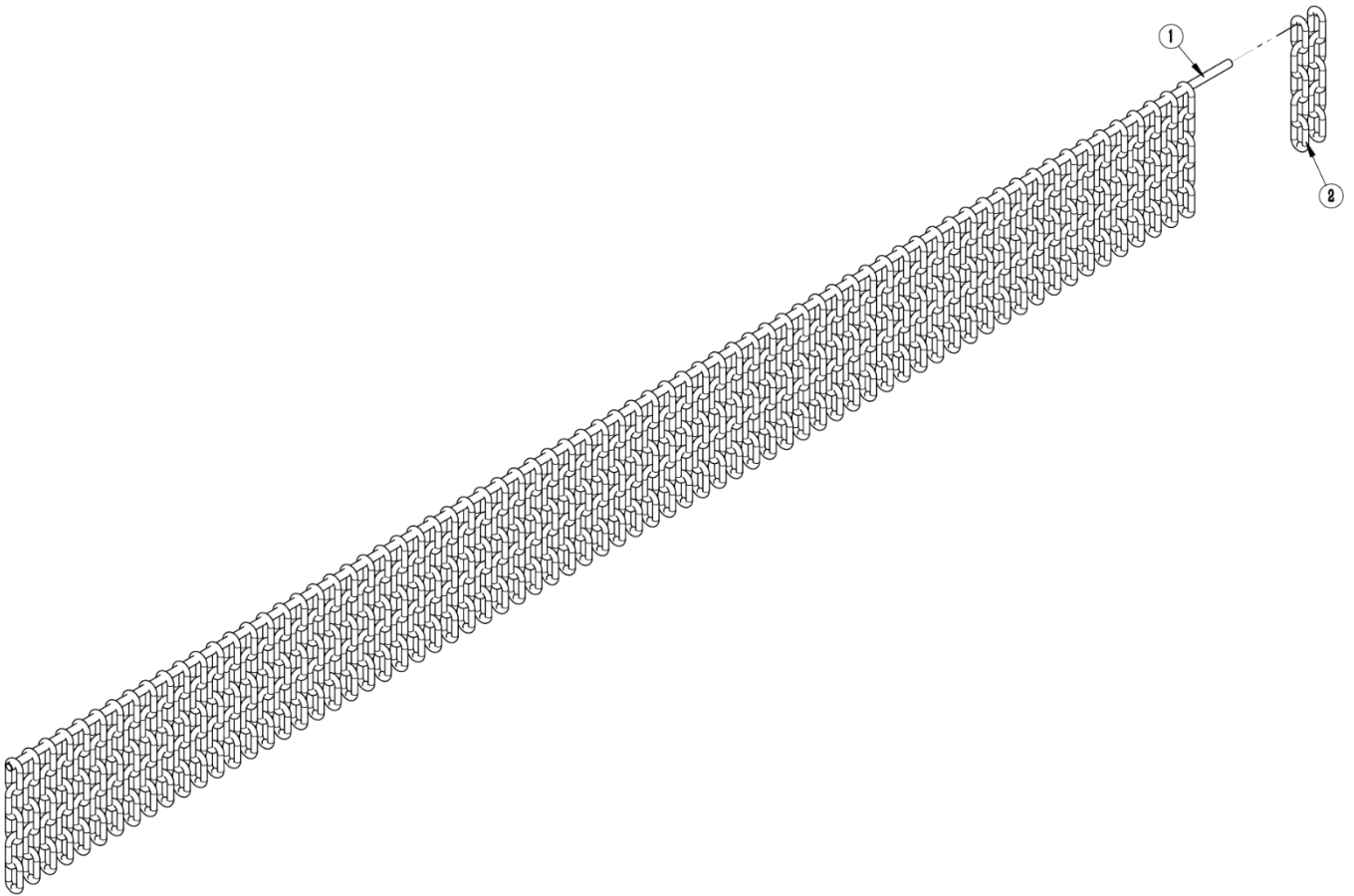
| POS. | COD. | Specification | Description | Qty |
|------|------------|------------------------|--------------------|-----|
| 1 | 3220100034 | MT01020 | Blade | 1 |
| 2 | 3040300020 | GB/T5782-M12×55-10.9-O | Hexagon head bolts | 1 |
| 3 | 3080500009 | GB/T93-12-EP•Zn | Spring washer | 1 |
| 4 | 3050500007 | GB/T889.1-M12-8-EP•Zn | Locknut | 1 |

REAR COVER ASSEMBLY



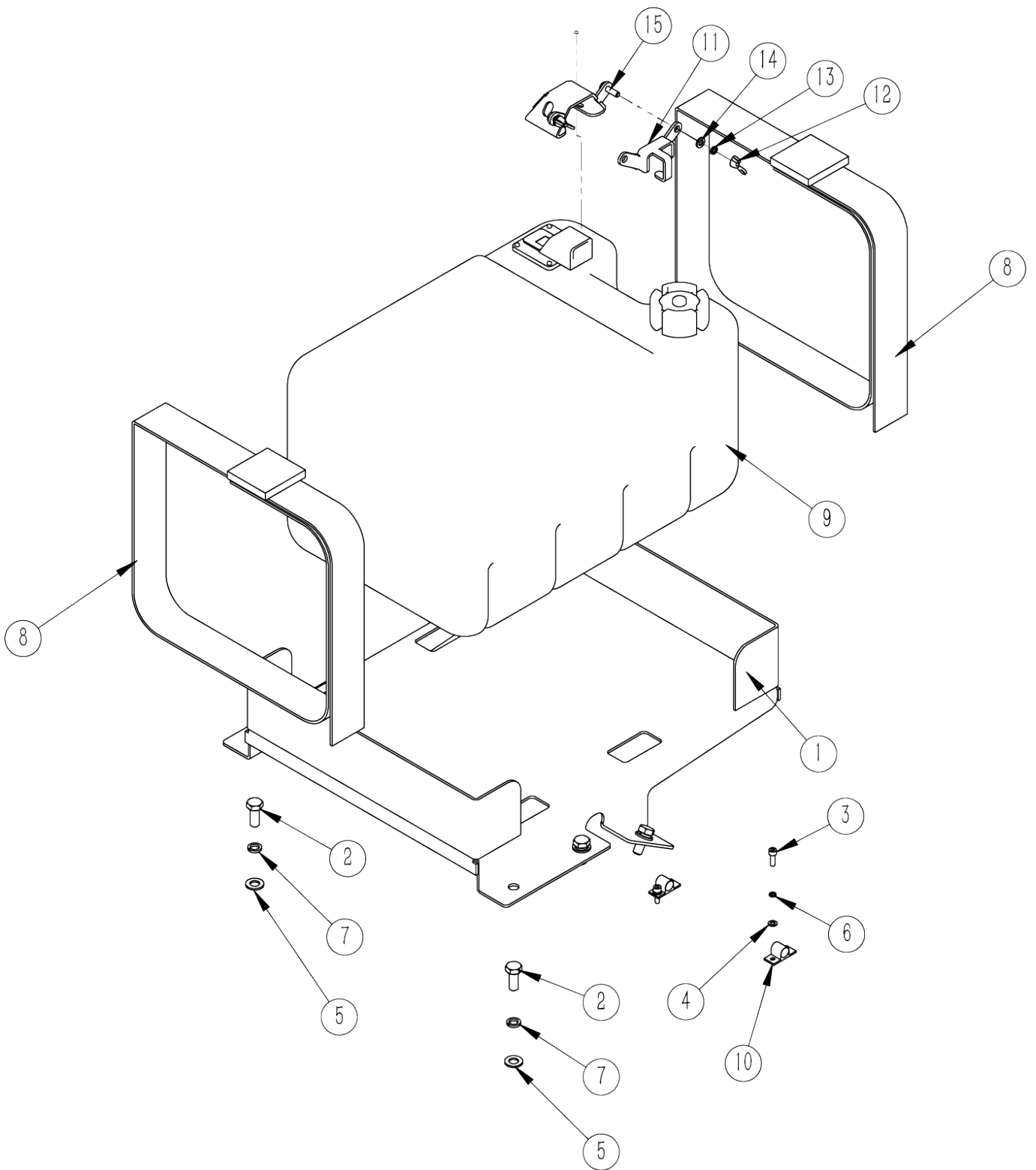
| POS. | COD. | Specification | Description | Qty |
|------|------------|---------------------------|--------------------------------|-----|
| 1 | 2000001013 | G11001A05000-004 | Gasket | 2 |
| 2 | 2010000729 | G11001A05000-001 | Threaded sleeve | 1 |
| 3 | 2010000730 | G11001A05000-002 | Turn | 1 |
| 4 | 2010000731 | G11001A05000-003 | Joystick | 1 |
| 5 | 2010000732 | G11001A05000-005 | Spacer | 2 |
| 6 | 2020001986 | G11001A05200-000 | Handle welded parts | 1 |
| 7 | 2020001995 | G11001A05100-000 | Cover plate welded parts | 1 |
| 8 | 3040100025 | GB/T5783-M8×30-8.8-EP•Zn | Full-thread hexagon bolts | 1 |
| 9 | 3040100047 | GB/T5783-M10×40-8.8-EP•Zn | Full-thread hexagon bolts | 2 |
| 10 | 3040100054 | GB/T5783-M10×75-8.8-EP•Zn | Full-thread hexagon bolts | 1 |
| 11 | 3050100007 | GB/T41-M12-5-EP•Zn | Hexagon Nuts | 1 |
| 12 | 3050500003 | GB/T889.1-M8-8-EP•Zn | Locknut | 1 |
| 13 | 3050500004 | GB/T889.1-M10-8-EP•Zn | Locknut | 3 |
| 14 | 3060100615 | GB/T70.1-M8×10-8.8-EP•Zn | Hexagon socket head cap screws | 2 |
| 15 | 3060100037 | GB/T70.1-M10×16-8.8-EP•Zn | Hexagon socket head cap screws | 1 |
| 16 | 3080100004 | GB/T95-8-EP•Zn | Plain washer | 2 |
| 17 | 3080100006 | GB/T95-10-EP•Zn | Plain washer | 7 |
| 18 | 3080500008 | GB/T93-10-EP•Zn | Spring washer | 1 |
| 19 | 3210500004 | G11001A05000-006 | The gloves | 2 |

PROTECTION ASSEMBLY



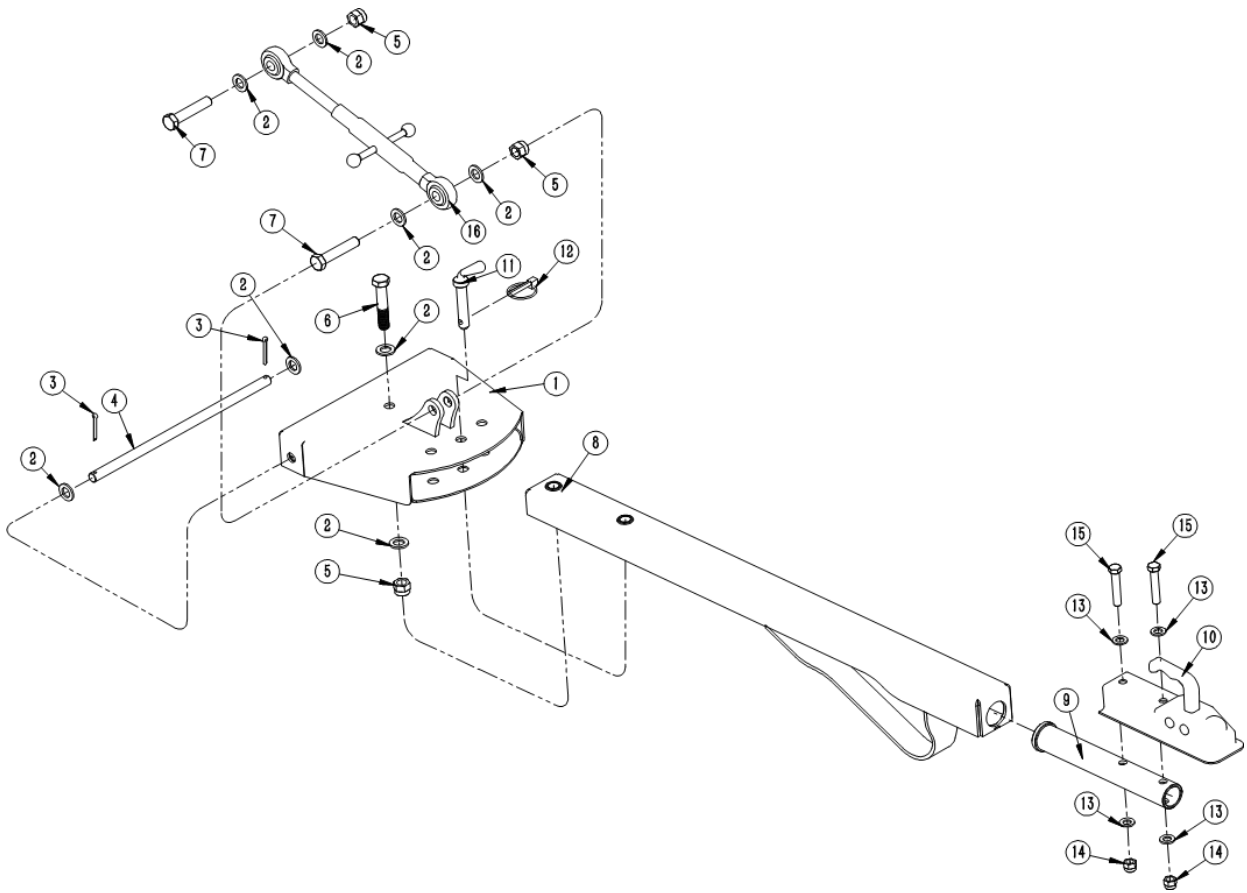
| POS. | COD. | Specification | Description | Qty |
|------|------------|------------------|------------------|-----|
| 1 | 2010000722 | G11001A10000-001 | Chain pin | 1 |
| 2 | 3130100010 | 6×28×20-5 | Galvanized chain | 73 |

OIL TANKS



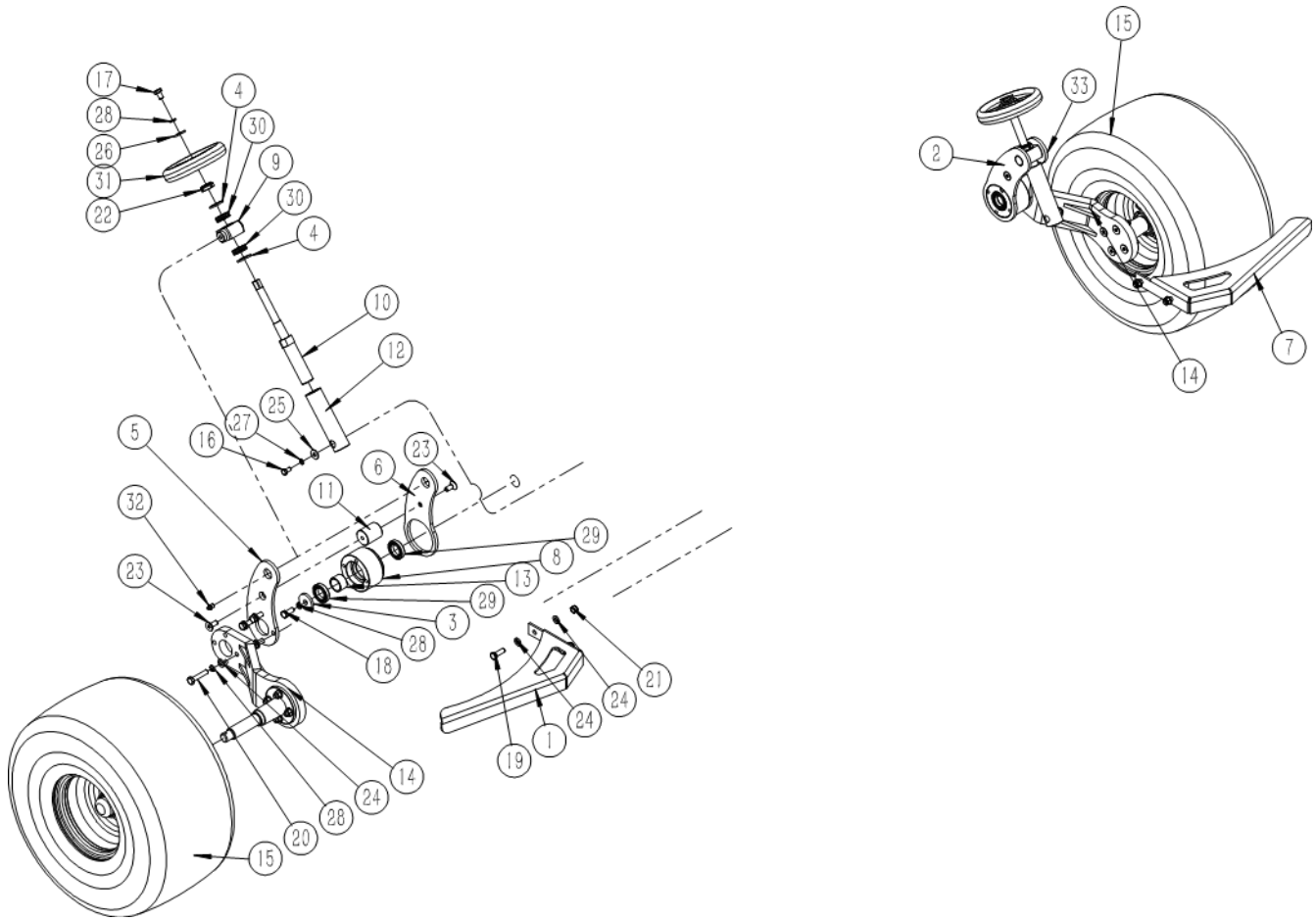
| POS. | COD. | Specification | Description | 24L/Qty |
|------|------------|---------------------------|--------------------------------|---------|
| 1 | 2020006179 | G11003A16100-000 | Plate weldment | 1 |
| 2 | 3040100043 | GB/T5783-M10×25-8.8-EP•Zn | Full-thread hexagon bolts | 6 |
| 3 | 3060100004 | GB/T70.1-M5×16-8.8-EP•Zn | Hexagon socket head cap screws | 2 |
| 4 | 3080100002 | GB/T95-5-EP•Zn | Plain washer | 2 |
| 5 | 3080100006 | GB/T95-10-EP•Zn | Plain washer | 6 |
| 6 | 3080500005 | GB/T93-5-EP•Zn | Spring washer | 2 |
| 7 | 3080500008 | GB/T93-10-EP•Zn | Spring washer | 6 |
| 8 | 3130600601 | 1500×50mm | Accessories | 2 |
| 9 | 3200200660 | 24L-L2100 | Accessories | 1 |
| 10 | 3210100603 | 8J-S-12 | Lock | 2 |
| 11 | 2000006108 | G11001B16300-000 | plate | 1 |
| 12 | 3051300601 | GB/T 62.1-2004 | Wing nuts | 2 |
| 13 | 3080500006 | GB/T93-6-EP•Zn | Spring washer | 2 |
| 14 | 3080100003 | GB/T95-6-EP•Zn | Plain washer | 2 |
| 15 | 2020007212 | G11001B16200-000 | Plate weldment | 1 |

TRACTION ASSEMBLY



| POS. | COD. | Specification | Description | Qty |
|------|------------|---------------------------|----------------------------|-----|
| 1 | 2020001996 | G11001A09100-000 | Tie rod seat welded parts | 1 |
| 2 | 3080100009 | GB/T95-16-EP•Zn | Plain washer | 8 |
| 3 | 3120100107 | GB/T91-5×40 | Split pin | 2 |
| 4 | 2010000718 | G11001A09000-001 | Rod pin | 1 |
| 5 | 3050500009 | GB/T889.1-M16-8-EP•Zn | Locknut | 3 |
| 6 | 3040300059 | GB/T5782-M16×85-8.8-EP•Zn | Hexagon head bolts | 1 |
| 7 | 3040300057 | GB/T5782-M16×80-8.8-EP•Zn | Hexagon head bolts | 2 |
| 8 | 2020001997 | G11001A09200-000 | Tie rod welding | 1 |
| 9 | 2010000717 | G11001A09000-002 | Connecting pipe | 1 |
| 10 | 3130500003 | 50×50" | Hitch ball coupler | 1 |
| 11 | 2010000719 | G11001A09000-003 | Tire height adjustment pin | 1 |
| 12 | 3120400009 | GB/T4329-8-EP•Zn | Pin | 1 |
| 13 | 3080100007 | GB/T95-12-EP•Zn | Plain washer | 4 |
| 14 | 3050500007 | GB/T889.1-M12-8-EP•Zn | Locknut | 2 |
| 15 | 3040100076 | GB/T5783-M12×65-8.8-EP•Zn | Full-thread hexagon bolts | 2 |
| 16 | 3130500609 | G11001A09000-004 | Adjusting lever assembly | 1 |

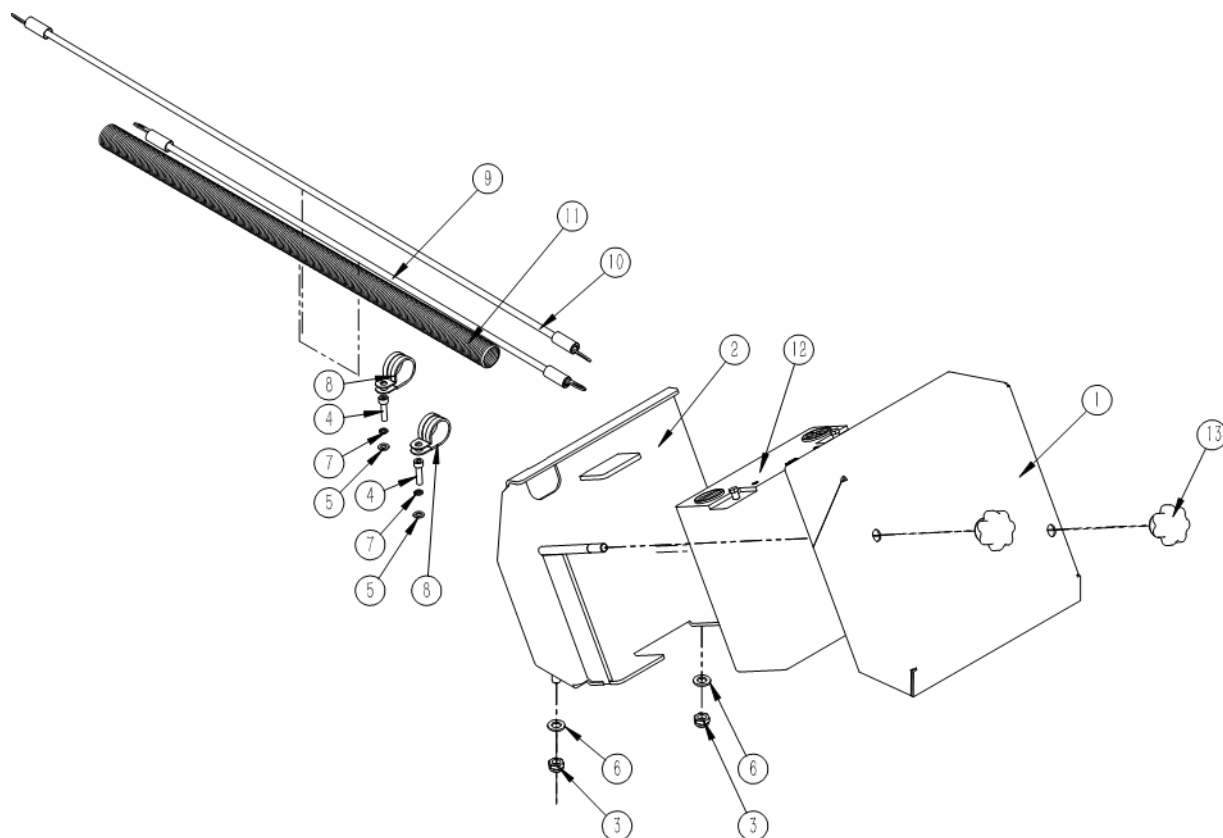
TIRE ASSEMBLY



| POS. | COD. | Specification | Description | Qty |
|------|------------|------------------|---------------------------------|-----|
| 1 | 2000001003 | G11001A13000-012 | Right guard | 1 |
| 2 | 2000001007 | G11001A13000-004 | Large hole adjustment plate | 1 |
| 3 | 2000001008 | G11001A13000-009 | Adjust the shaft pressure plate | 2 |
| 4 | 2000001012 | G11001A13000-011 | Gasket | 4 |
| 5 | 2000006565 | G11001B13000-013 | Adjustment board 2 | 1 |
| 6 | 2000001015 | G11001A13000-014 | Large hole adjustment plate 2 | 1 |
| 7 | 2000001018 | G11001A13000-001 | Left guard | 1 |
| 8 | 2010006244 | G11001B13000-003 | Tire adjusting sleeve | 2 |
| 9 | 2010000724 | G11001A13000-005 | Adjust the bearing seat | 2 |
| 10 | 2010000725 | G11001A13000-006 | Adjusting screw | 2 |

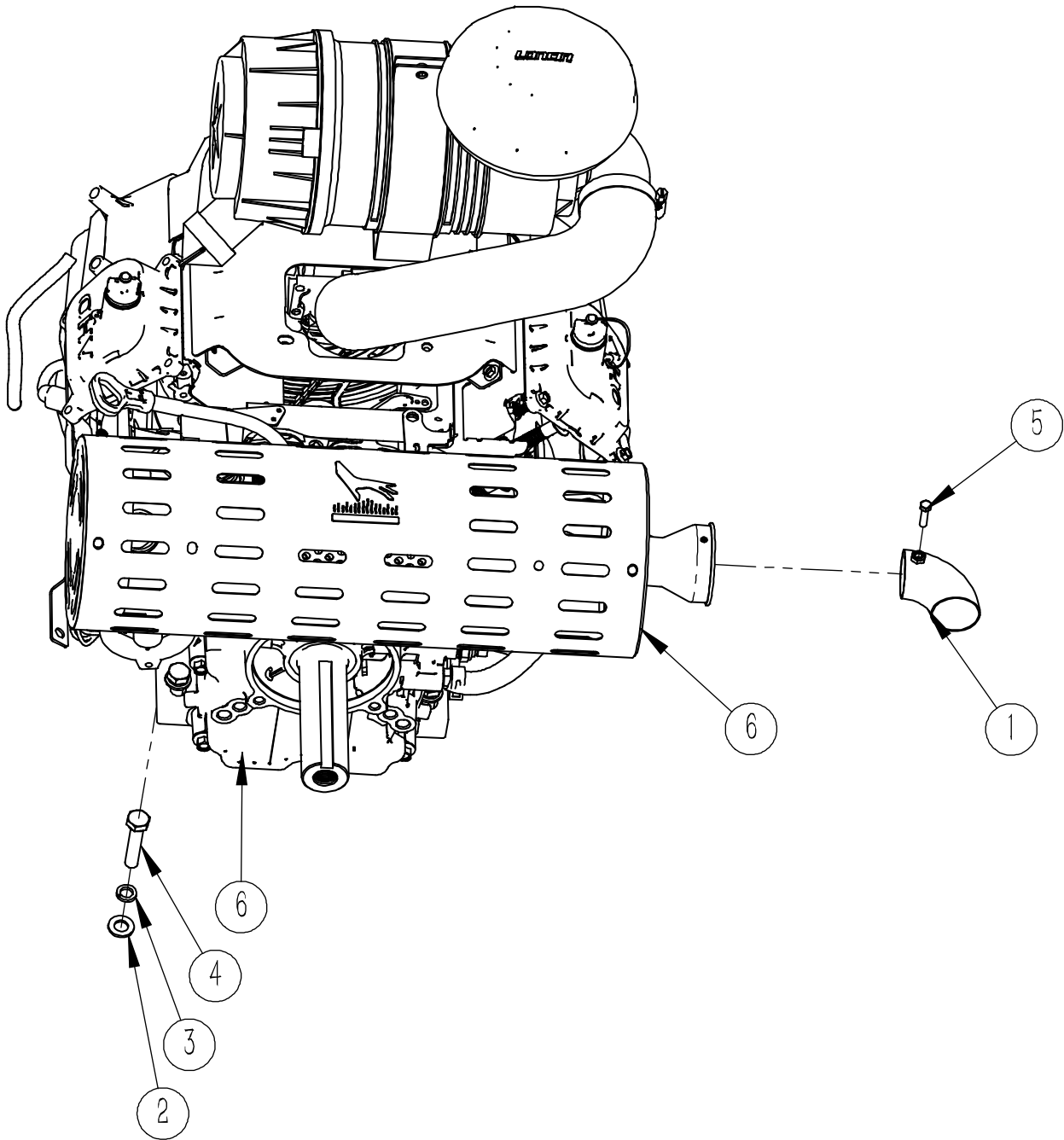
| | | | | |
|----|------------|---------------------------|----------------------------|----|
| 11 | 2010000726 | G11001A13000-008 | Adjustment plate | 2 |
| 12 | 2010000727 | G11001A13000-010 | Adjusting screw sleeve | 2 |
| 13 | 2010000728 | G11001A13000-002 | Spacer | 2 |
| 14 | 2060304858 | G11006A13200-000 | Regulator plate components | 2 |
| 15 | 2090006048 | G11001B13100-000 | Tire components | 2 |
| 16 | 3040100021 | GB/T5783-M8×16-8.8-EP•Zn | Full-thread hexagon bolts | 2 |
| 17 | 3040100039 | GB/T5783-M10×16-8.8-EP•Zn | Full-thread hexagon bolts | 2 |
| 18 | 3040100043 | GB/T5783-M10×25-8.8-EP•Zn | Full-thread hexagon bolts | 2 |
| 19 | 3040100045 | GB/T5783-M10×30-8.8-EP•Zn | Full-thread hexagon bolts | 4 |
| 20 | 3040100049 | GB/T5783-M10×50-8.8-EP•Zn | Full-thread hexagon bolts | 8 |
| 21 | 3050500004 | GB/T889.1-M10-8-EP•Zn | Locknut | 4 |
| 22 | 3051000005 | M20x1.5(OW-GUK20) | Round Lock net | 2 |
| 23 | 3060200033 | GB/T70.3-M10×25-8.8-EP•Zn | HSCS-Countersunk | 4 |
| 24 | 3080100006 | GB/T95-10-EP•Zn | Plain washer | 16 |
| 25 | 3080200008 | GB/T96.2-8-EP•Zn | Large plain washer | 2 |
| 26 | 3080200009 | GB/T96.2-10-EP•Zn | Large plain washer | 2 |
| 27 | 3080500007 | GB/T93-8-EP•Zn | Spring washer | 2 |
| 28 | 3080500008 | GB/T93-10-EP•Zn | Spring washer | 12 |
| 29 | 3100100063 | UBC-61906-2Z | Deep groove ball bearing | 4 |
| 30 | 3100400001 | GB/T301-51104 | Thrust ball bearing | 4 |
| 31 | 3140100045 | Φ 160-14×14 | Adjust the hand wheel | 2 |
| 32 | 3170400005 | DIN71412-A G1/8 304 | Grease nipple | 2 |
| 33 | 2000006566 | G11001B13000-007 | Adjustment plate | 1 |

BATTERY MOUNTING KIT



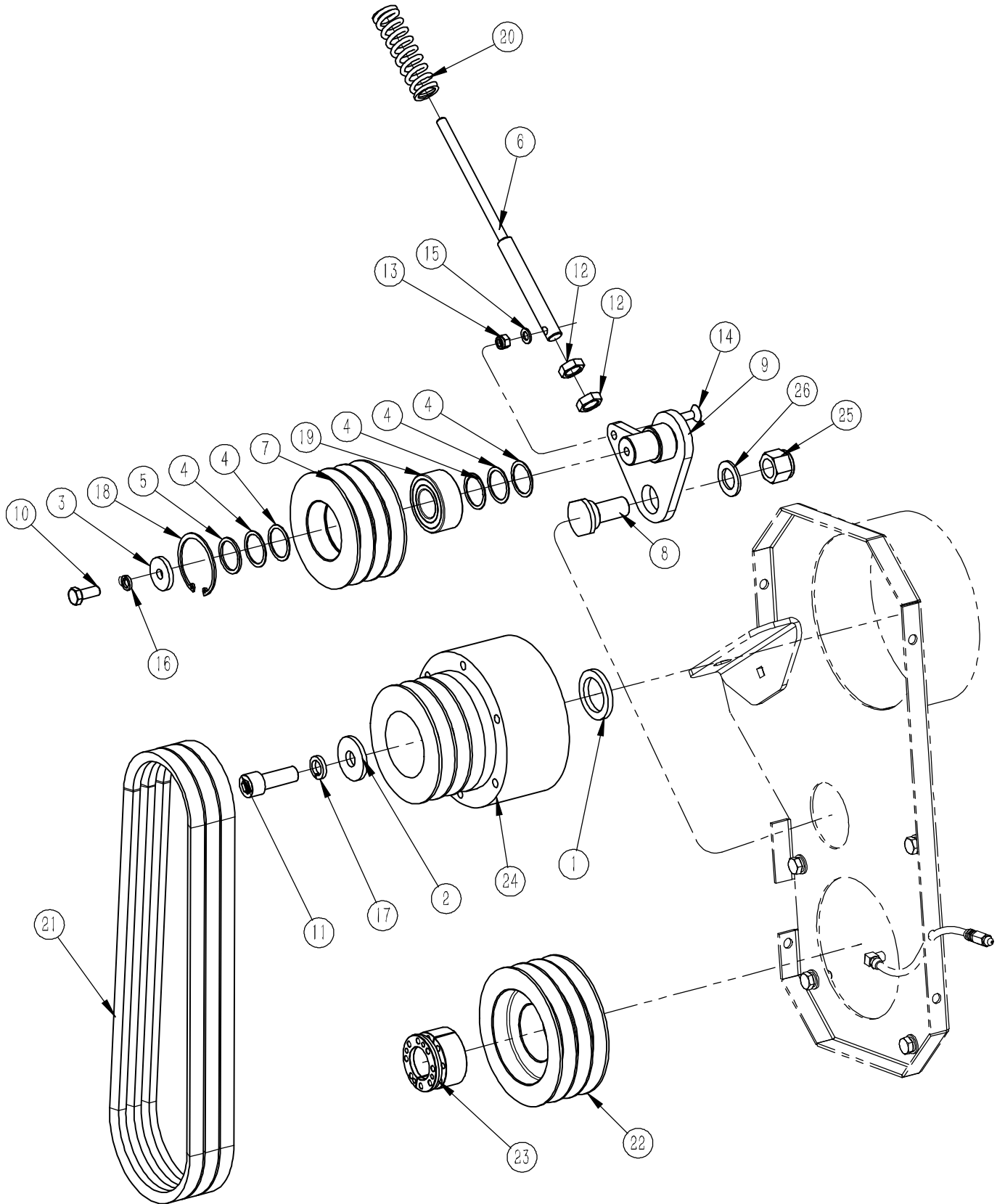
| POS. | COD. | Specification | Description | Qty |
|------|------------|--------------------------|--------------------------------|-----|
| 1 | 200001016 | G11001A15000-001 | Battery mounting panel | 1 |
| 2 | 2020002002 | G11001A15100-000 | Battery mounting plate welding | 1 |
| 3 | 3050500003 | GB/T889.1-M8-8-EP•Zn | Locknut | 2 |
| 4 | 3060100005 | GB/T70.1-M5×20-8.8-EP•Zn | Hexagon socket head cap screws | 2 |
| 5 | 3080100002 | GB/T95-5-EP•Zn | Plain washer | 2 |
| 6 | 3080100004 | GB/T95-8-EP•Zn | Plain washer | 2 |
| 7 | 3080500005 | GB/T93-5-EP•Zn | Spring washer | 2 |
| 8 | 3130600020 | Φ22 | 22mm clamp | 2 |
| 9 | 3190100024 | 520-8AWG-M6-M10 | Negative main line black | 1 |
| 10 | 3190100025 | 820-8AWG-M6-M8 | The main line of positive pole | 1 |
| 11 | 3190100615 | AD25-ID20 | corrugated pipe | 1 |
| 12 | 3190400001 | 12V-20AH(180*75*168) | Battery | 1 |
| 13 | 3210500016 | M8 | Rubber | 2 |

ENGINE MOUNTING ASSEMBLY



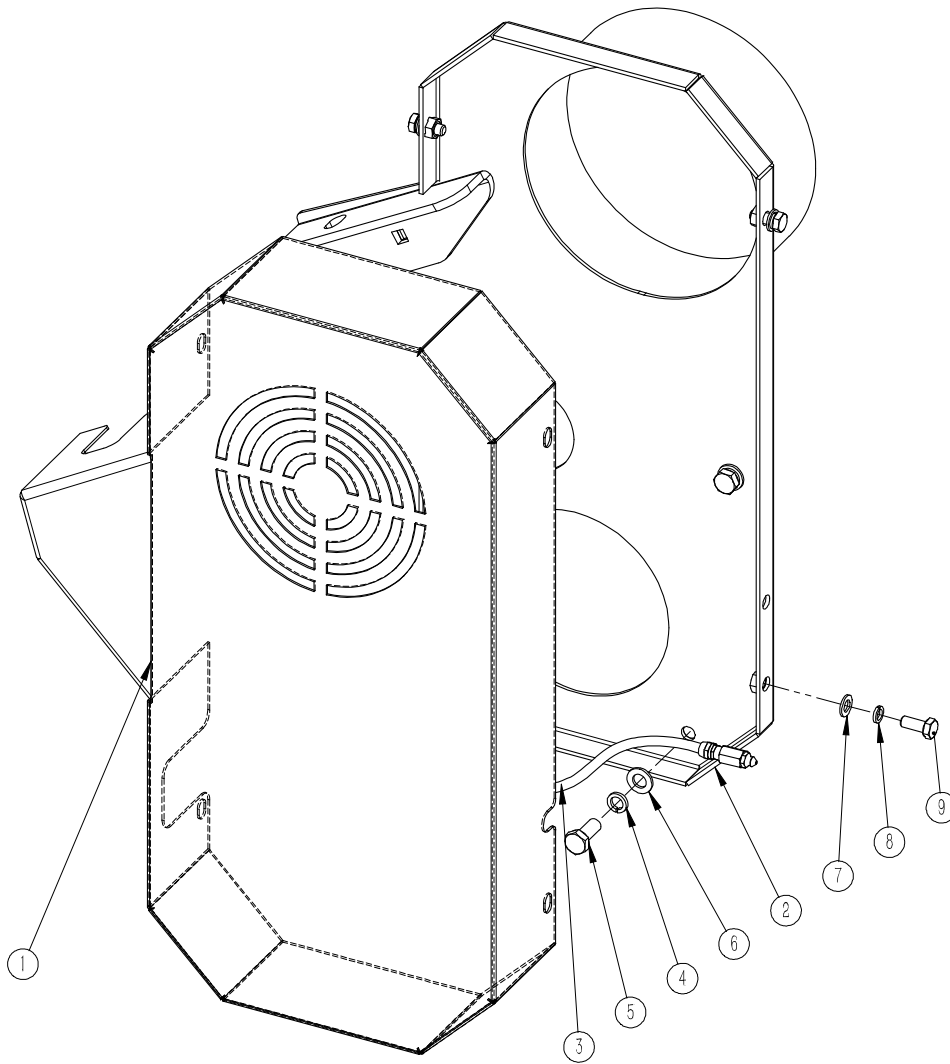
| POS. | COD. | Specification | Description | Qty |
|------|------------|---------------------------|---------------------------|-----|
| 1 | 2020002005 | G11001A14100-000 | Exhaust pipe welding | 1 |
| 2 | 3080100006 | GB/T95-10-EP•Zn | Plain washer | 4 |
| 3 | 3080500008 | GB/T93-10-EP•Zn | Spring washer | 4 |
| 4 | 3040100049 | GB/T5783-M10×50-8.8-EP•Zn | Full-thread hexagon bolts | 4 |
| 5 | 3040100002 | GB/T5783-M5×20-8.8-EP•Zn | Full-thread hexagon bolts | 1 |
| 6 | 3200200032 | 2V80 | engine | 1 |

SIDE DRIVE ASSEMBLY



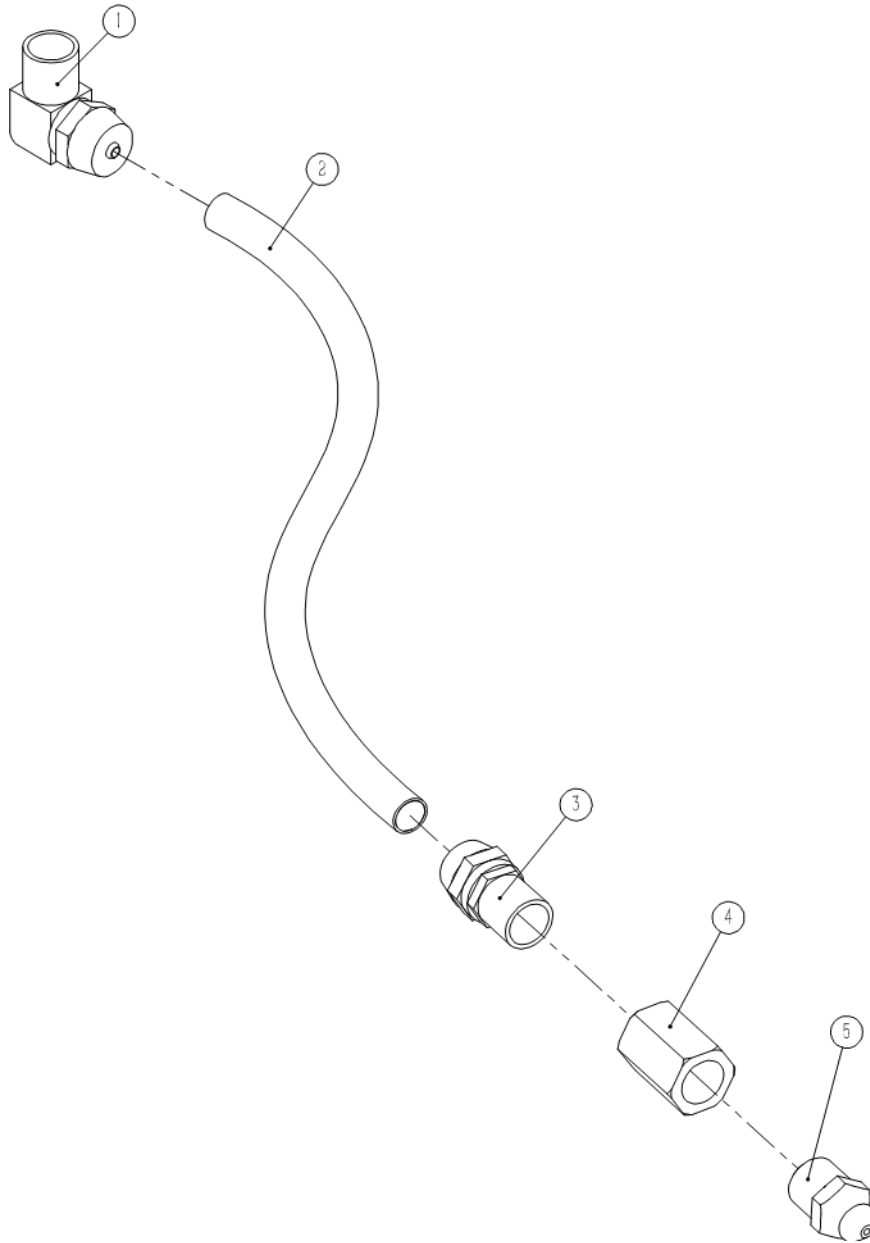
| POS. | COD. | Specification | Description | Qty |
|------|------------|---------------------------|------------------------------|-----|
| 1 | 2000001009 | G11001A07000-002 | Clutch washer | 1 |
| 2 | 2000001010 | G11001A07000-001 | Engine shaft end cover | 1 |
| 3 | 2000001017 | G11001A07000-003 | Pressure plate | 1 |
| 4 | 2000004898 | G11001A07000-005 | Plate | 5 |
| 5 | 2000004901 | G11001A07000-006 | Plate | 1 |
| 6 | 2010004848 | G11001A07000-007 | Axle | 1 |
| 7 | 2010004850 | G11001A07000-004 | Tension wheel | 1 |
| 8 | 2010004868 | G11001A07000-008 | Tighten axle | 1 |
| 9 | 2020007083 | G11006A07100-000 | Plate | 1 |
| 10 | 3040100043 | GB/T5783-M10×25-8.8-EP•Zn | Full-thread hexagon bolts | 1 |
| 11 | 3041600023 | 5/8-18×45 | HSCS-Cap 5/8-18×45 | 1 |
| 12 | 3050300006 | GB/T6172.1-M16-04-EP•Zn | Hexagon thin nut | 2 |
| 13 | 3050500003 | GB/T889.1-M8-8-EP•Zn | Locknut | 1 |
| 14 | 3060200022 | GB/T70.3-M8×40-8.8-EP•Zn | HSCS-Countersunk | 1 |
| 15 | 3080100004 | GB/T95-8-EP•Zn | Plain washer | 1 |
| 16 | 3080500008 | GB/T93-10-EP•Zn | Spring washer | 1 |
| 17 | 3080500011 | GB/T93-16-EP•Zn | Spring washer | 1 |
| 18 | 3080600038 | GB/T893-62-A | Circlips for holes | 1 |
| 19 | 3101600014 | GB/T296-3206-2RS | Angular contact ball bearing | 1 |
| 20 | 3110200029 | F11007A09000-006 | Spring | 1 |
| 21 | 3160300602 | GATES-XPB1150 | GATES belt | 3 |
| 22 | 3160400062 | SPB110-3-1-60-HT200-O | Pulley | 1 |
| 23 | 3160500001 | Z3A-35×60 | Expanding sleeve | 1 |
| 24 | 3161100608 | NC01005900A | Accessories | 1 |
| 25 | 3050500011 | GB/T889.1-M20-8-EP•Zn | Locknut | 1 |
| 26 | 3080100011 | GB/T95-20-EP•Zn | Plain washer | 1 |

SIDE PROTECTION COVER ASSEMBLY



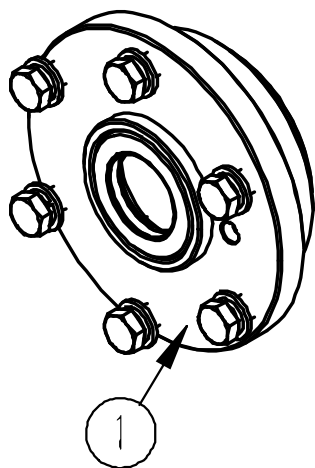
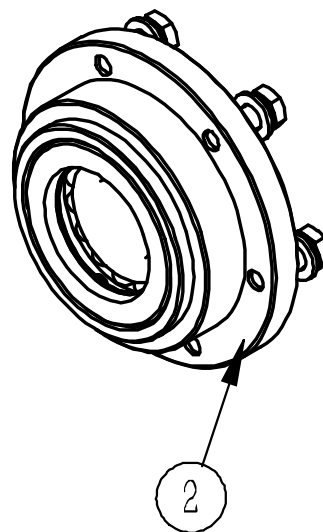
| POS. | COD. | Specification | Description | Qty |
|------|------------|---------------------------|---------------------------|-----|
| 1 | 2020004916 | G11001A08200-000 | Welding | 1 |
| 2 | 2020004915 | G11001A08300-000 | Welding | 1 |
| 3 | 2090000194 | G11001A08100-000 | Grease nipple set | 1 |
| 4 | 3080500008 | GB/T93-10-EP•Zn | Spring washer | 4 |
| 5 | 3040100043 | GB/T5783-M10×25-8.8-EP•Zn | Full-thread hexagon bolts | 4 |
| 6 | 3080100006 | GB/T95-10-EP•Zn | Plain washer | 4 |
| 7 | 3080100004 | GB/T95-8-EP•Zn | Plain washer | 4 |
| 8 | 3080500007 | GB/T93-8-EP•Zn | Spring washer | 4 |
| 9 | 3040100022 | GB/T5783-M8×20-8.8-EP•Zn | Full-thread hexagon bolts | 4 |

GREASE NIPPLE SET



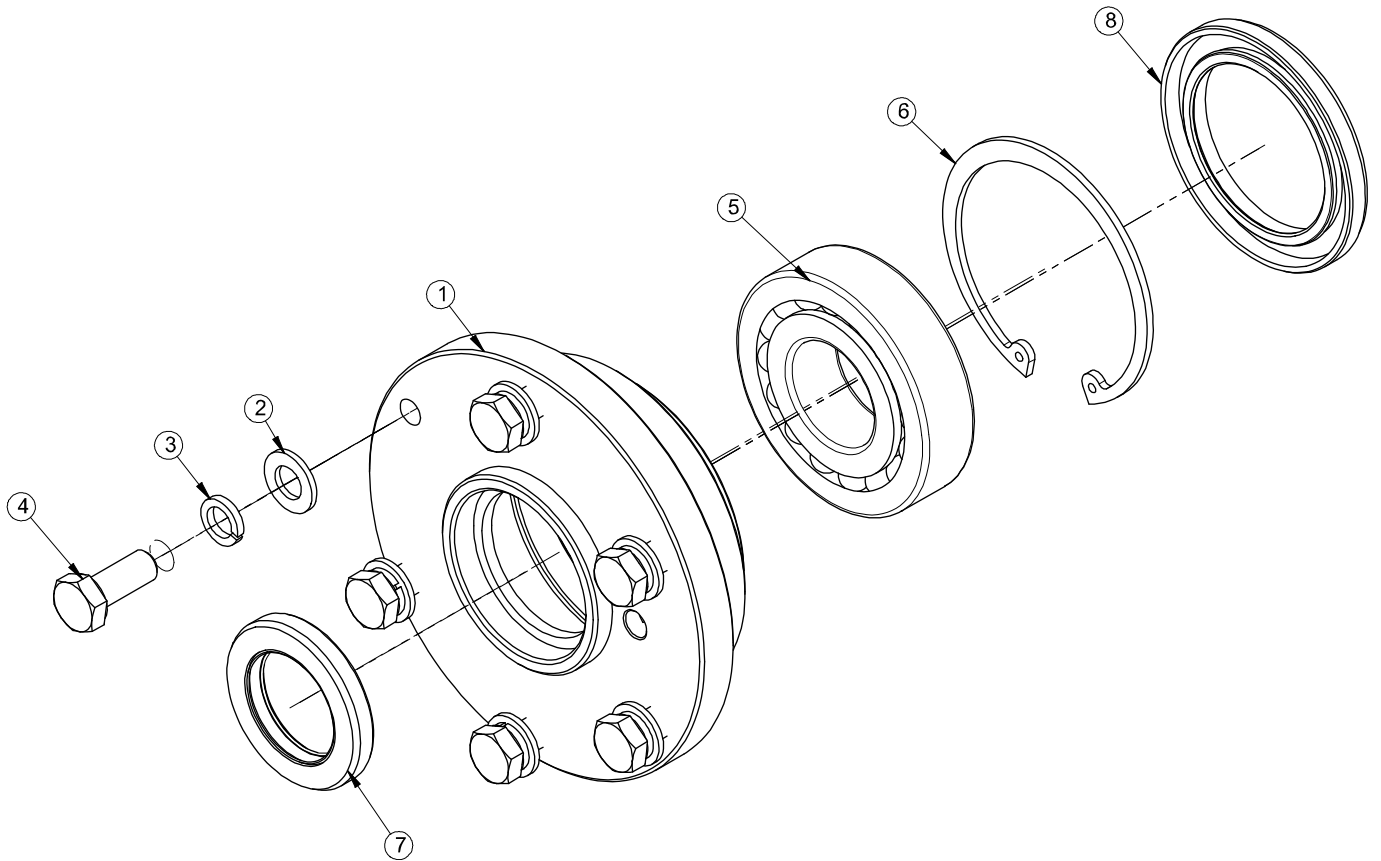
| POS. | COD. | Specification | Description | Qty |
|------|------------|---------------------|--------------------------|-----|
| 1 | 3170400014 | JB/T7056-G1/8 | G1/8 Right angle fitting | 1 |
| 2 | 3180200152 | L=300 | Transparent hose | 1 |
| 3 | 3170400015 | JB/T7056-G1/8 | G1/8 Coupling | 1 |
| 4 | 3170400016 | JB/T7056-G1/8 | G1/8 Adapter | 1 |
| 5 | 3170400005 | DIN71412-A G1/8 304 | Grease nipple | 1 |

CUTTER SHAFT BEARING BLOCK ASSEMBLY



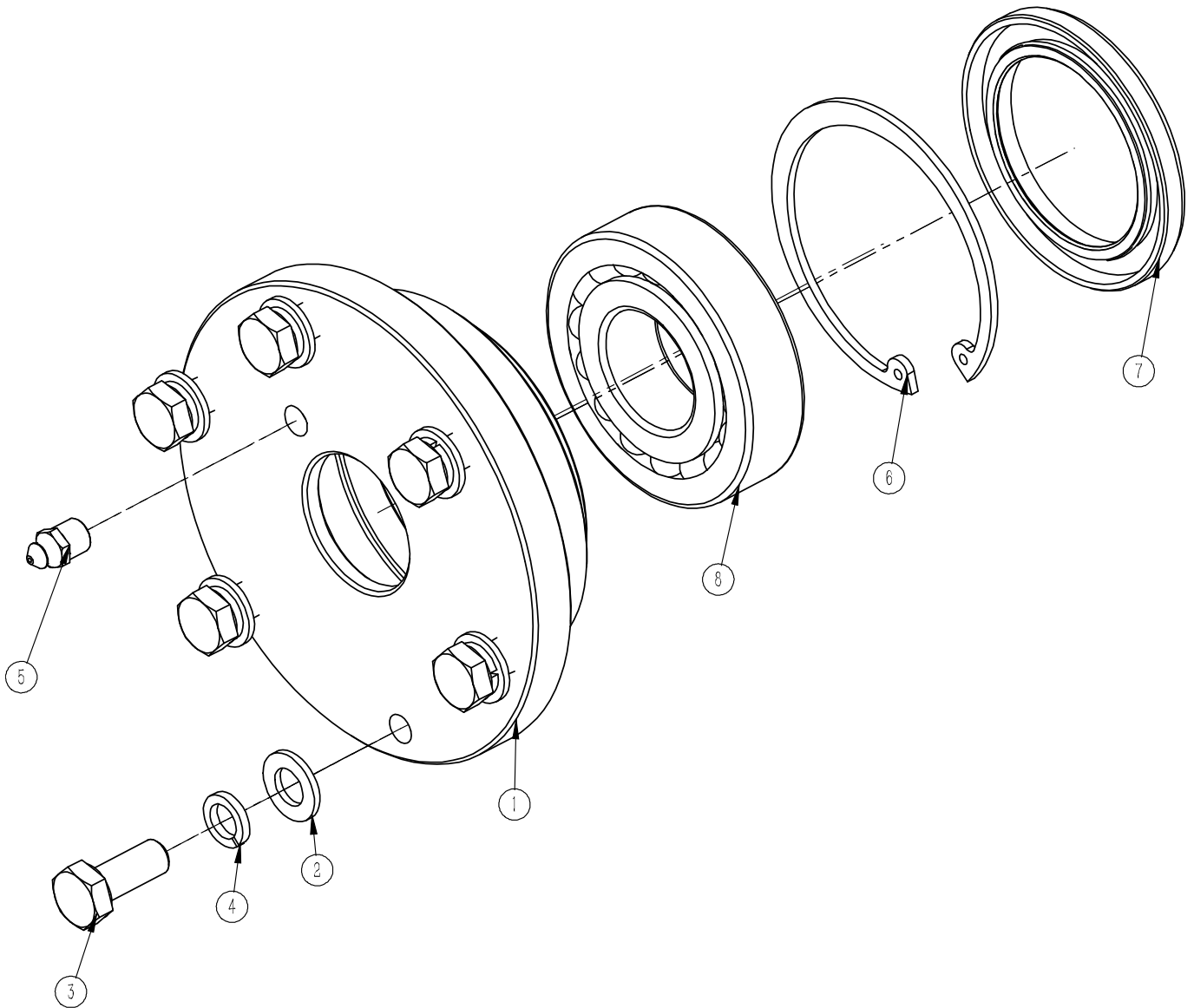
| POS. | COD. | Specification | Description | Qty |
|------|------------|------------------|--|-----|
| 1 | 2060204968 | G11001A04100-000 | Left knife shaft bearing block assembly | 1 |
| 2 | 2060204969 | G11001A04200-000 | Right knife shaft bearing block assembly | 1 |

LEFT KNIFE SHAFT BEARING BLOCK ASSEMBLY



| POS | COD. | Specification | Description | Qty |
|-----|------------|----------------------------|------------------------------|-----|
| 1 | 3150100061 | G11001A04100-001 | Long shaft head bearing seat | 1 |
| 2 | 3080100006 | GB/T95-10-EP•Zn | Plain washer | 6 |
| 3 | 3080500008 | GB/T93-10-EP•Zn | Spring washer | 6 |
| 4 | 3040100043 | GB/T5783-M10×25-8.8-EP•Zn | Full-thread hexagon bolts | 6 |
| 5 | 3100200008 | GB/T281-1307 | Self-aligning ball bearing | 1 |
| 6 | 3080600046 | GB/T893-80-A | Circlips for holes | 1 |
| 7 | 3170100008 | GB/T13871.1-FB-35×55×8-NBR | shaft seal | 1 |
| 8 | 3170100046 | GB/T13871.1-FB-55×80×8-NBR | shaft seal | 1 |

RIGHT KNIFE SHAFT BEARING BLOCK ASSEMBLY



| POS. | COD. | Specification | Description | Qty |
|------|------------|--------------------------------|----------------------------|-----|
| 1 | 3150100004 | F01001A05000-001 | Bearing seat | 1 |
| 2 | 3080100006 | GB/T95-10-EP•Zn | Plain washer | 6 |
| 3 | 3040100043 | GB/T5783-M10×25-8.8-EP•Zn | Full-thread hexagon bolts | 6 |
| 4 | 3080500008 | GB/T93-10-EP•Zn | Spring washer | 6 |
| 5 | 3170400005 | DIN71412-A G1/8 304 | Grease nipple | 1 |
| 6 | 3080600046 | GB/T893-80-A | Circlips for holes | 1 |
| 7 | 3170100046 | GB/T13871.1-FB-55×80×8- NBR | shaft seal | 1 |
| 8 | 3100200008 | GB/T281-1307 | Self-aligning ball bearing | 1 |

WARRANTY

The Manufacturer warrants to the original purchaser that this product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

Overall Unit and Driveline: 18 months Parts and Labor

Blades and Belts: Consumables materials

This Warranty is limited to the replacement of any defective part by the Manufacturer and the installation by the dealer of any such replacement part, and does not cover common wear items. The Manufacturer reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in Manufacturer's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized Manufacturer dealer. The Manufacturer reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render Manufacturer liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, the Manufacturer shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale.